



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 08:20 AM UTC

PDB ID : 4V5K / pdb_00004v5k
Title : Structure of cytotoxic domain of colicin E3 bound to the 70S ribosome
Authors : Ng, C.L.; Lang, K.; Meenan, N.A.G.; Sharma, A.; Kelley, A.C.; Kleanthous, C.; Ramakrishnan, V.
Deposited on : 2010-05-29
Resolution : 3.20 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
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

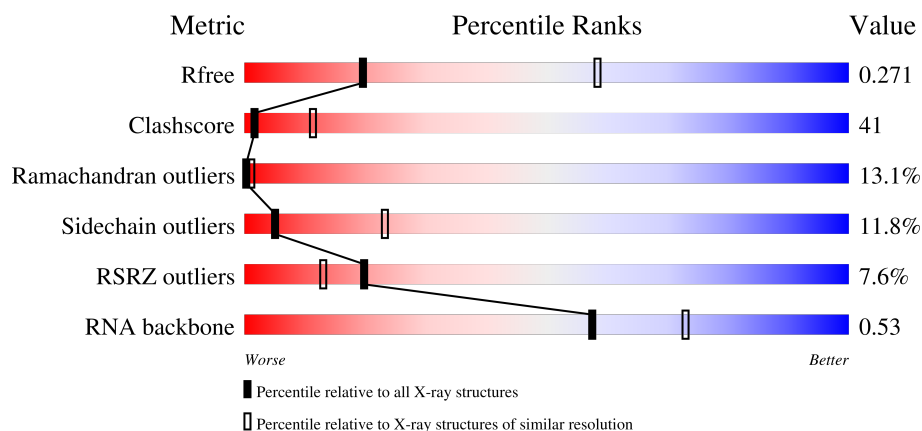
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)
RNA backbone	3983	1222 (3.50-2.90)

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	3% 28% 60% 9% ..
1	CA	1522	24% 23% 62% 12% ..
2	AB	256	6% 15% 61% 14% • 8%
2	CB	256	9% 16% 61% 13% • 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	77	
22	AW	77	
22	CV	77	
22	CW	77	
23	AX	25	
24	AY	97	
24	CY	97	
25	B0	85	
25	D0	85	
26	B1	98	
26	D1	98	
27	B2	72	

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Mol	Chain	Length	Quality of chain
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2848	
35	DA	2848	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	
39	DE	206	

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Mol	Chain	Length	Quality of chain
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
43	DI	148	
44	BJ	131	
44	DJ	131	
45	BN	140	
45	DN	140	
46	BO	122	
46	DO	122	
47	BP	150	
47	DP	150	
48	BQ	141	
48	DQ	141	
49	BR	118	
49	DR	118	
50	BS	112	
50	DS	112	
51	BT	146	
51	DT	146	
52	BU	118	

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Mol	Chain	Length	Quality of chain
52	DU	118	
53	BV	101	
53	DV	101	
54	BW	113	
54	DW	113	
55	BX	96	
55	DX	96	
56	BY	110	
56	DY	110	
57	BZ	206	
57	DZ	206	
58	CX	25	

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
1	A3P	AA	1493	-	-	X	-
59	MG	AA	1625	-	-	-	X
59	MG	AA	1640	-	-	-	X
59	MG	AA	1666	-	-	-	X
59	MG	AA	1698	-	-	-	X
59	MG	AA	1757	-	-	-	X
59	MG	AA	1776	-	-	-	X
59	MG	AA	1790	-	-	-	X
59	MG	AA	1831	-	-	-	X
59	MG	AA	1850	-	-	-	X
59	MG	AA	1886	-	-	-	X
59	MG	AA	1905	-	-	-	X
59	MG	AA	1924	-	-	-	X
59	MG	AA	1938	-	-	-	X
59	MG	AA	1952	-	-	-	X
59	MG	AA	1959	-	-	-	X
59	MG	AA	1964	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	AA	1972	-	-	-	X
59	MG	AV	102	-	-	-	X
59	MG	BA	2914	-	-	-	X
59	MG	BA	2922	-	-	-	X
59	MG	BA	2963	-	-	-	X
59	MG	BA	2967	-	-	-	X
59	MG	BA	2977	-	-	-	X
59	MG	BA	2993	-	-	-	X
59	MG	BA	3005	-	-	-	X
59	MG	BA	3039	-	-	-	X
59	MG	BA	3043	-	-	-	X
59	MG	BA	3044	-	-	-	X
59	MG	BA	3071	-	-	-	X
59	MG	BA	3115	-	-	-	X
59	MG	BA	3117	-	-	-	X
59	MG	BA	3150	-	-	-	X
59	MG	BA	3190	-	-	-	X
59	MG	BA	3192	-	-	-	X
59	MG	BA	3193	-	-	-	X
59	MG	BA	3199	-	-	-	X
59	MG	BA	3210	-	-	-	X
59	MG	BA	3213	-	-	-	X
59	MG	BA	3215	-	-	-	X
59	MG	BA	3234	-	-	-	X
59	MG	BA	3272	-	-	-	X
59	MG	BA	3284	-	-	-	X
59	MG	BA	3316	-	-	-	X
59	MG	BA	3331	-	-	-	X
59	MG	BA	3335	-	-	-	X
59	MG	BA	3339	-	-	-	X
59	MG	BA	3342	-	-	-	X
59	MG	BA	3350	-	-	-	X
59	MG	BA	3361	-	-	-	X
59	MG	BA	3364	-	-	-	X
59	MG	BA	3379	-	-	-	X
59	MG	BA	3391	-	-	-	X
59	MG	BA	3477	-	-	-	X
59	MG	BA	3498	-	-	-	X
59	MG	BA	3502	-	-	-	X
59	MG	BA	3540	-	-	-	X
59	MG	BA	3564	-	-	-	X
59	MG	BA	3583	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	BA	3585	-	-	-	X
59	MG	BA	3598	-	-	-	X
59	MG	BA	3602	-	-	-	X
59	MG	BP	202	-	-	X	-
59	MG	BP	203	-	-	X	-
59	MG	CA	1622	-	-	-	X
59	MG	CA	1626	-	-	-	X
59	MG	CA	1695	-	-	-	X
59	MG	CA	1721	-	-	-	X
59	MG	CA	1741	-	-	-	X
59	MG	CA	1759	-	-	-	X
59	MG	CV	101	-	-	-	X
59	MG	D3	101	-	-	-	X
59	MG	D7	104	-	-	-	X
59	MG	DA	2906	-	-	-	X
59	MG	DA	2920	-	-	-	X
59	MG	DA	2921	-	-	-	X
59	MG	DA	2925	-	-	-	X
59	MG	DA	2927	-	-	-	X
59	MG	DA	2930	-	-	-	X
59	MG	DA	2931	-	-	-	X
59	MG	DA	2939	-	-	-	X
59	MG	DA	2942	-	-	-	X
59	MG	DA	2944	-	-	-	X
59	MG	DA	2950	-	-	-	X
59	MG	DA	2954	-	-	-	X
59	MG	DA	2958	-	-	-	X
59	MG	DA	2961	-	-	-	X
59	MG	DA	2976	-	-	-	X
59	MG	DA	2982	-	-	-	X
59	MG	DA	2988	-	-	-	X
59	MG	DA	3021	-	-	-	X
59	MG	DA	3025	-	-	-	X
59	MG	DA	3049	-	-	-	X
59	MG	DA	3079	-	-	-	X
59	MG	DA	3113	-	-	-	X
59	MG	DA	3123	-	-	-	X
59	MG	DA	3131	-	-	-	X
59	MG	DA	3138	-	-	-	X
59	MG	DA	3143	-	-	-	X
59	MG	DA	3145	-	-	-	X
59	MG	DA	3148	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3172	-	-	-	X
59	MG	DA	3241	-	-	-	X
59	MG	DA	3322	-	-	-	X
59	MG	DA	3329	-	-	-	X
59	MG	DA	3330	-	-	-	X
59	MG	DA	3345	-	-	-	X
59	MG	DA	3349	-	-	-	X
59	MG	DA	3366	-	-	-	X
59	MG	DA	3374	-	-	-	X
59	MG	DA	3376	-	-	-	X
59	MG	DA	3390	-	-	-	X
59	MG	DA	3419	-	-	-	X
59	MG	DA	3443	-	-	-	X
59	MG	DA	3459	-	-	-	X
59	MG	DA	3467	-	-	-	X
59	MG	DA	3468	-	-	-	X
59	MG	DA	3506	-	-	-	X
59	MG	DA	3515	-	-	-	X
59	MG	DA	3516	-	-	-	X
59	MG	DA	3534	-	-	-	X
59	MG	DA	3556	-	-	-	X
59	MG	DA	3569	-	-	-	X
59	MG	DA	3577	-	-	-	X
59	MG	DA	3591	-	-	-	X
59	MG	DA	3617	-	-	-	X
59	MG	DA	3628	-	-	-	X
59	MG	DA	3640	-	-	-	X
59	MG	DA	3651	-	-	-	X
59	MG	DA	3665	-	-	-	X
59	MG	DA	3682	-	-	-	X
59	MG	DA	3696	-	-	-	X
59	MG	DA	3712	-	-	-	X
59	MG	DA	3717	-	-	-	X
59	MG	DA	3728	-	-	-	X
59	MG	DA	3748	-	-	-	X
59	MG	DA	3784	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 296762 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	1508	Total	C	N	O	P	0	0	0
			32412	14427	6003	10475	1507			
1	CA	1508	Total	C	N	O	P	0	0	0
			32413	14427	6004	10475	1507			

- 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	1
			1692	1060	336	289	7			
4	CD	208	Total	C	N	O	S	0	0	1
			1692	1060	336	289	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
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	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	118	Total	C	N	O	S	0	0	1
			934	577	193	162	2			
13	CM	118	Total	C	N	O	S	0	0	1
			934	577	193	162	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	85	Total	C	N	O	S	0	0	1
			671	427	124	118	2			
19	CS	85	Total	C	N	O	S	0	0	1
			671	427	124	118	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	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	AW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	CV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	CW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	16	Total	C	N	O	P	0	0	0
			341	155	66	105	15			

- Molecule 24 is a protein called COLICIN-E3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	AY	97	Total	C	N	O	0	0	0
			769	483	144	142			
24	CY	16	Total	C	N	O	0	0	1
			126	82	23	21			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AY	58	ALA	HIS	engineered mutation	UNP P06646
CY	58	ALA	HIS	engineered mutation	UNP P00646

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			734	460	148	125	1			
26	D1	94	Total	C	N	O	S	0	0	1
			734	460	148	125	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B1	81	ARG	LYS	conflict	UNP P60494
D1	81	ARG	LYS	conflict	UNP P60494

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	56	Total	C	N	O	S	0	0	1
			434	274	75	81	4			
29	D4	56	Total	C	N	O	S	0	0	1
			434	274	75	81	4			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
31	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			
34	D9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2807	Total	C	N	O	P	0	0	0
			60459	26907	11311	19435	2806			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	DA	2807	Total	C	N	O	P	0	0	0
			60459	26907	11311	19435	2806			

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BC	191	Total	C	N	O	0	0	1
			1142	691	221	230			
37	DC	191	Total	C	N	O	0	0	1
			1142	691	221	230			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
38	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	165	Total	C	N	O	S	0	0	1
			1260	800	234	225	1			
42	DH	165	Total	C	N	O	S	0	0	1
			1260	800	234	225	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BI	145	Total	C	N	O	S	0	0	1
			1125	718	200	206	1			
43	DI	145	Total	C	N	O	S	0	0	1
			1125	718	200	206	1			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BZ	187	Total	C	N	O	S	0	0	1
			1482	944	264	272	2			
57	DZ	187	Total	C	N	O	S	0	0	1
			1482	944	264	272	2			

- Molecule 58 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	CX	8	Total	C	N	O	P	0	0	0
			173	79	37	50	7			

- Molecule 59 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	AA	373	Total	Mg	0	0
			373	373		
59	AC	2	Total	Mg	0	0
			2	2		
59	AD	3	Total	Mg	0	0
			3	3		
59	AH	1	Total	Mg	0	0
			1	1		
59	AI	3	Total	Mg	0	0
			3	3		
59	AL	6	Total	Mg	0	0
			6	6		
59	AN	2	Total	Mg	0	0
			2	2		
59	AO	2	Total	Mg	0	0
			2	2		
59	AP	1	Total	Mg	0	0
			1	1		
59	AQ	3	Total	Mg	0	0
			3	3		
59	AT	1	Total	Mg	0	0
			1	1		
59	AV	7	Total	Mg	0	0
			7	7		
59	AX	4	Total	Mg	0	0
			4	4		
59	AY	3	Total	Mg	0	0
			3	3		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	B0	2	Total 2	Mg 2	0	0
59	B1	1	Total 1	Mg 1	0	0
59	B5	3	Total 3	Mg 3	0	0
59	B6	1	Total 1	Mg 1	0	0
59	B7	1	Total 1	Mg 1	0	0
59	BA	709	Total 709	Mg 709	0	0
59	BB	6	Total 6	Mg 6	0	0
59	BD	5	Total 5	Mg 5	0	0
59	BE	4	Total 4	Mg 4	0	0
59	BF	1	Total 1	Mg 1	0	0
59	BH	4	Total 4	Mg 4	0	0
59	BN	1	Total 1	Mg 1	0	0
59	BO	1	Total 1	Mg 1	0	0
59	BP	4	Total 4	Mg 4	0	0
59	BQ	1	Total 1	Mg 1	0	0
59	BR	5	Total 5	Mg 5	0	0
59	BT	1	Total 1	Mg 1	0	0
59	BU	2	Total 2	Mg 2	0	0
59	BY	1	Total 1	Mg 1	0	0
59	CA	184	Total 184	Mg 184	0	0
59	CC	3	Total 3	Mg 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	CD	1	Total 1	Mg 1	0	0
59	CH	1	Total 1	Mg 1	0	0
59	CJ	2	Total 2	Mg 2	0	0
59	CM	3	Total 3	Mg 3	0	0
59	CP	1	Total 1	Mg 1	0	0
59	CQ	1	Total 1	Mg 1	0	0
59	CS	2	Total 2	Mg 2	0	0
59	CV	12	Total 12	Mg 12	0	0
59	CY	1	Total 1	Mg 1	0	0
59	D0	4	Total 4	Mg 4	0	0
59	D1	2	Total 2	Mg 2	0	0
59	D2	1	Total 1	Mg 1	0	0
59	D3	1	Total 1	Mg 1	0	0
59	D5	3	Total 3	Mg 3	0	0
59	D6	2	Total 2	Mg 2	0	0
59	D7	4	Total 4	Mg 4	0	0
59	D8	1	Total 1	Mg 1	0	0
59	D9	1	Total 1	Mg 1	0	0
59	DA	897	Total 897	Mg 897	0	0
59	DB	11	Total 11	Mg 11	0	0
59	DD	6	Total 6	Mg 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	DE	4	Total 4	Mg 4	0	0
59	DF	3	Total 3	Mg 3	0	0
59	DN	3	Total 3	Mg 3	0	0
59	DO	1	Total 1	Mg 1	0	0
59	DP	6	Total 6	Mg 6	0	0
59	DR	2	Total 2	Mg 2	0	0
59	DT	1	Total 1	Mg 1	0	0
59	DU	4	Total 4	Mg 4	0	0
59	DW	1	Total 1	Mg 1	0	0
59	DY	1	Total 1	Mg 1	0	0

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AD	2	Total 2	Zn 2	0	0
60	AN	1	Total 1	Zn 1	0	0
60	CD	1	Total 1	Zn 1	0	0

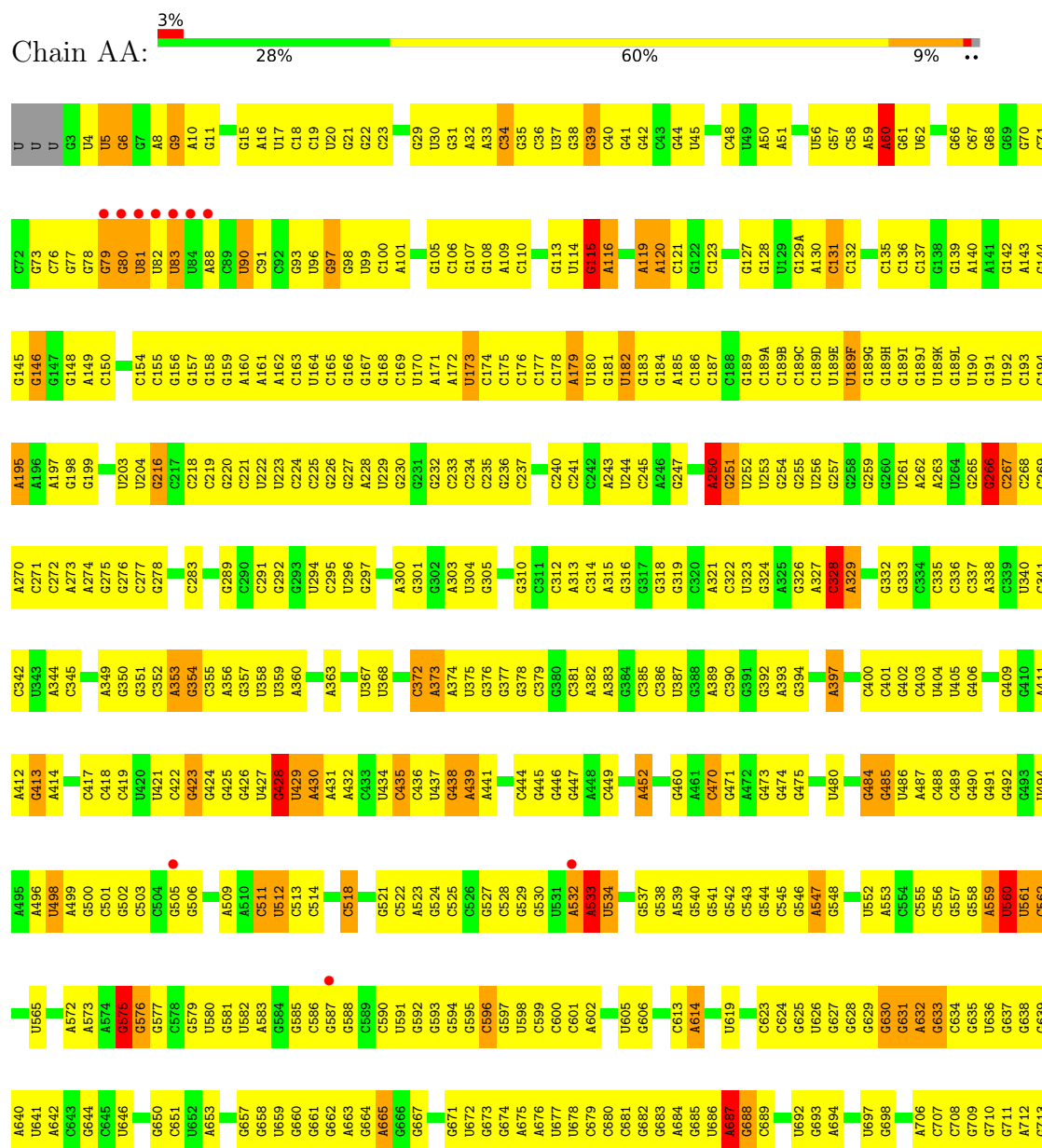
- Molecule 61 is water.

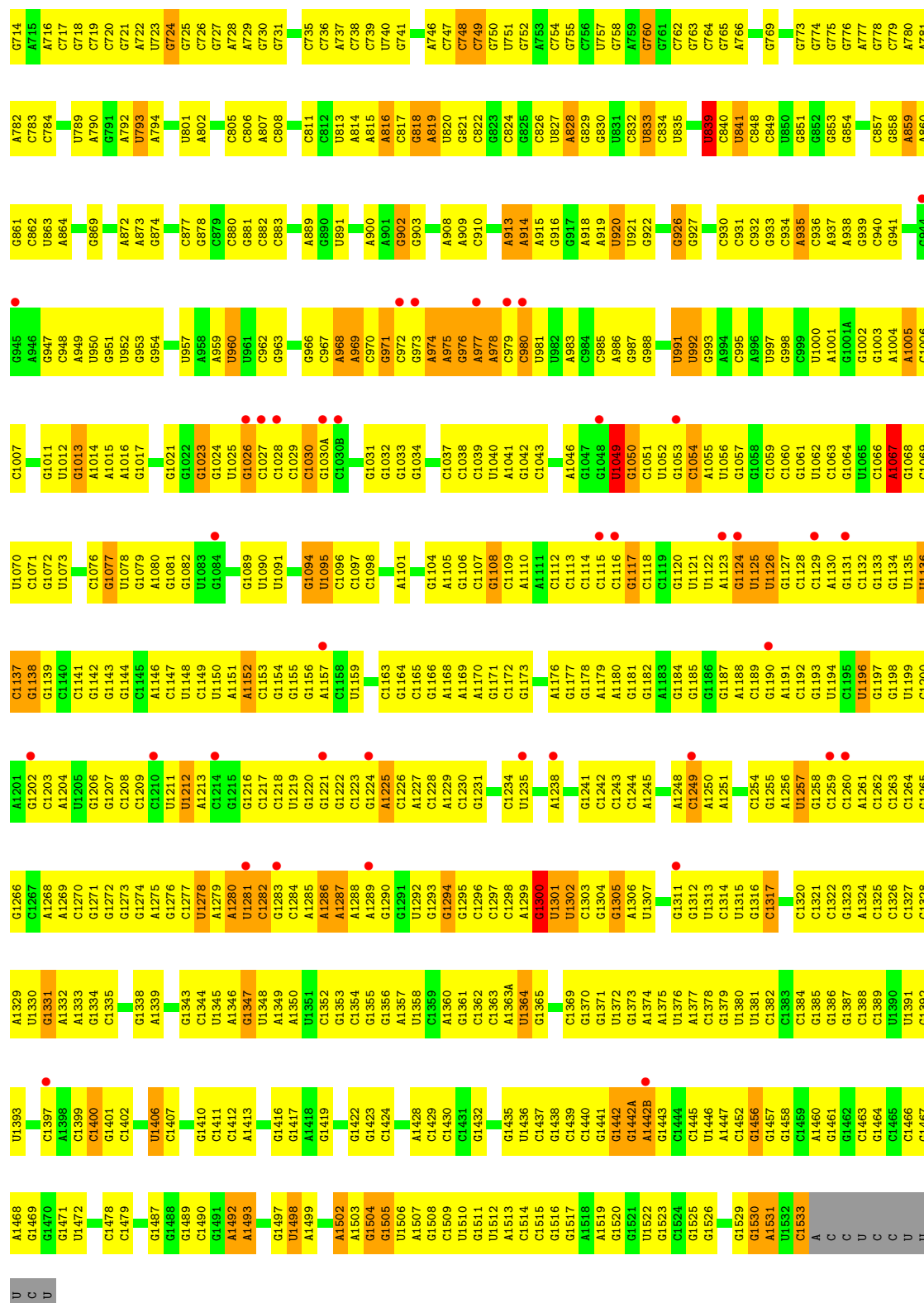
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	AA	2	Total 2	O 2	0	0

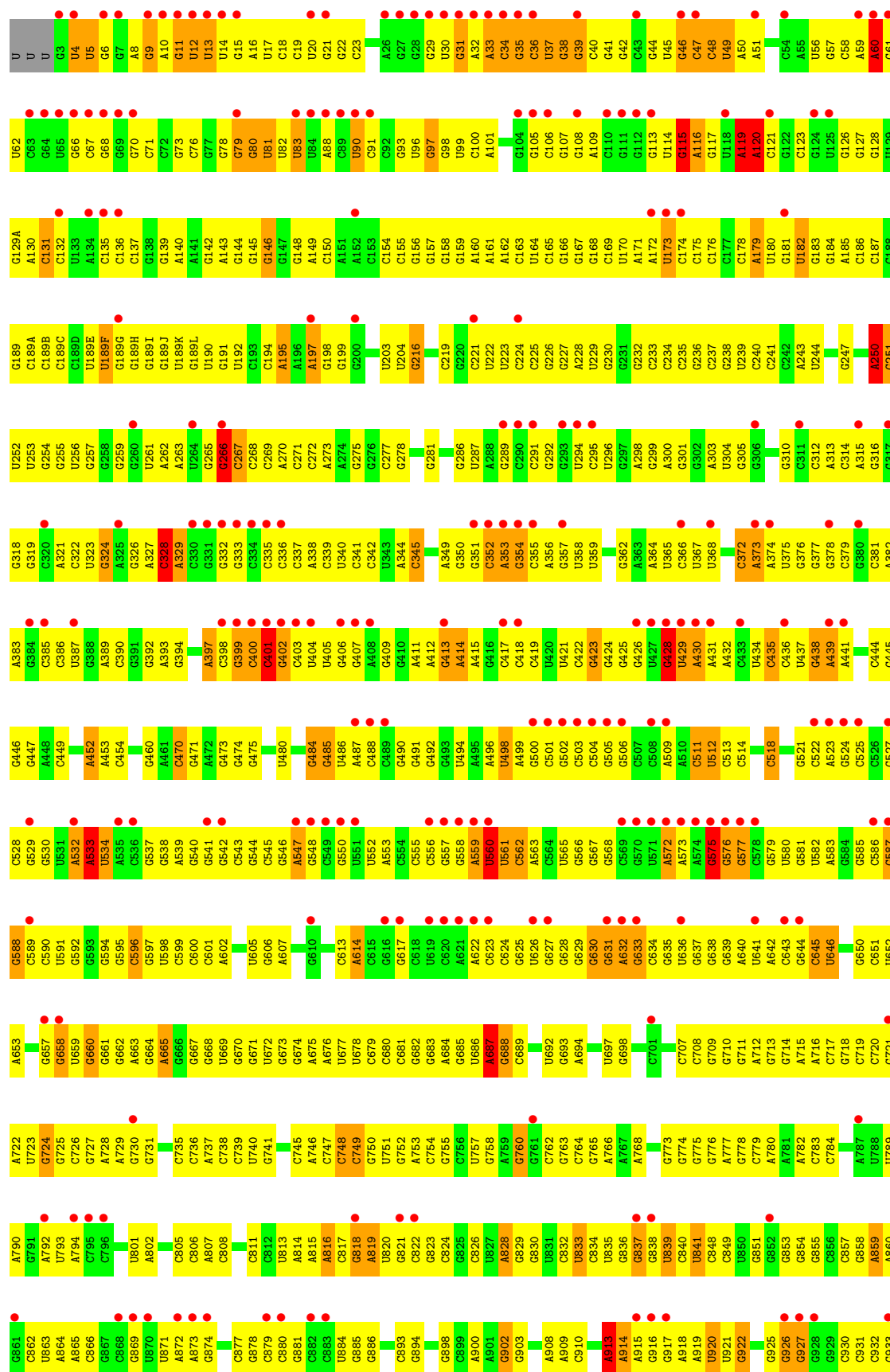
3 Residue-property plots

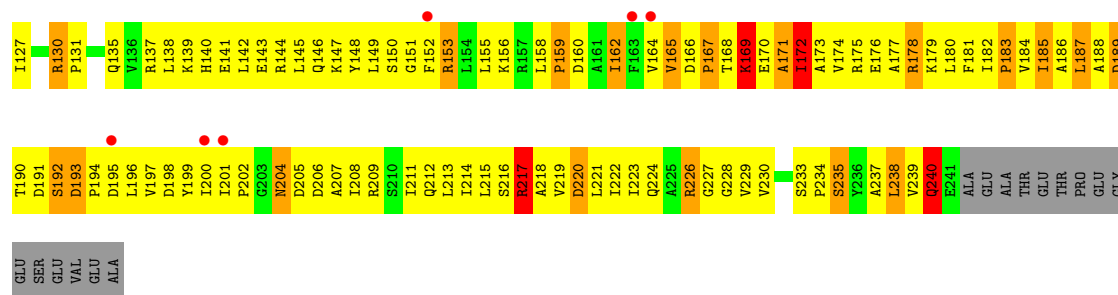
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 16S ribosomal RNA

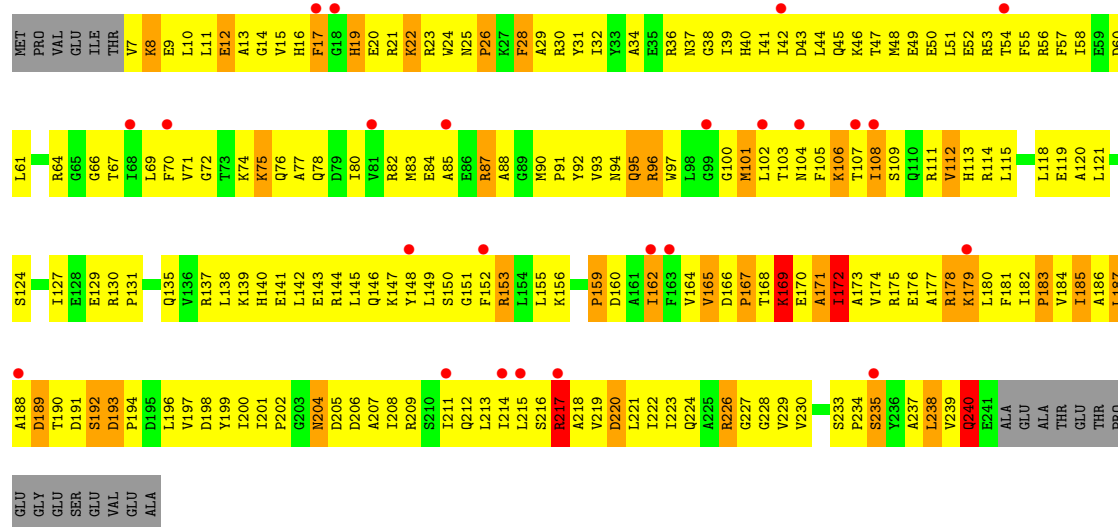




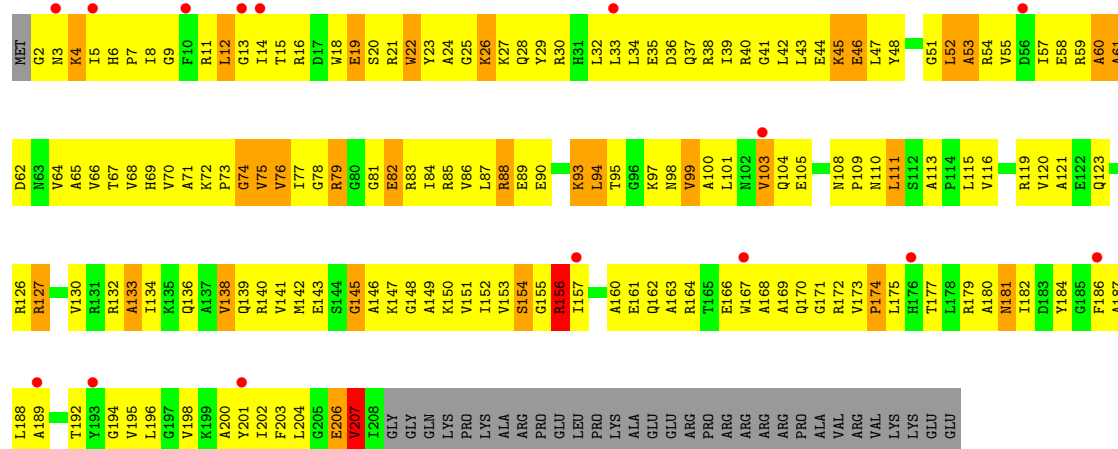
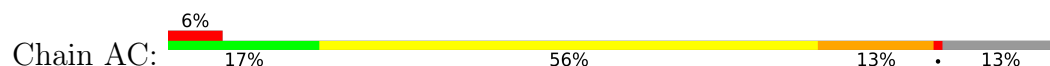




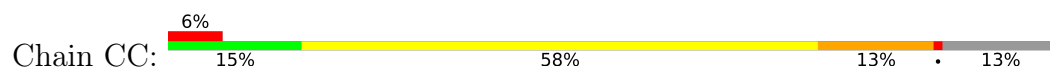
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

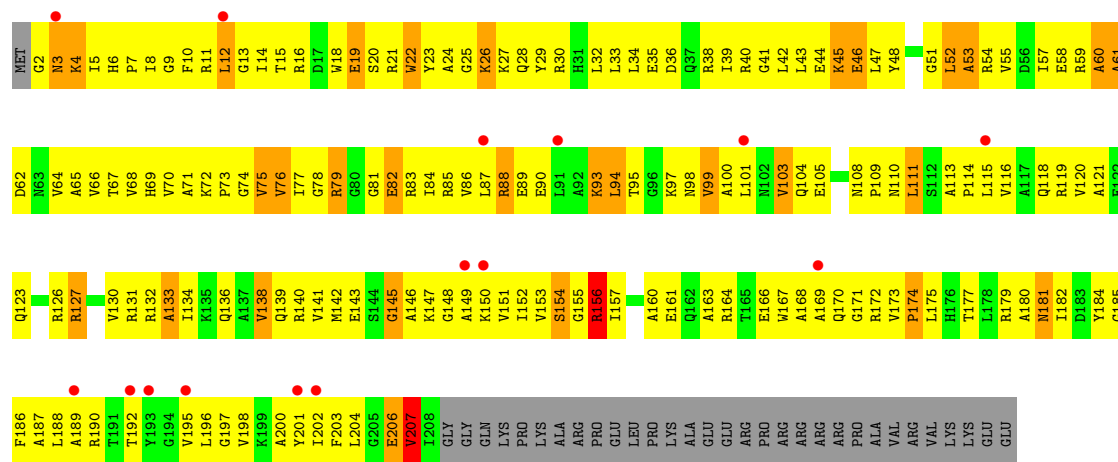


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

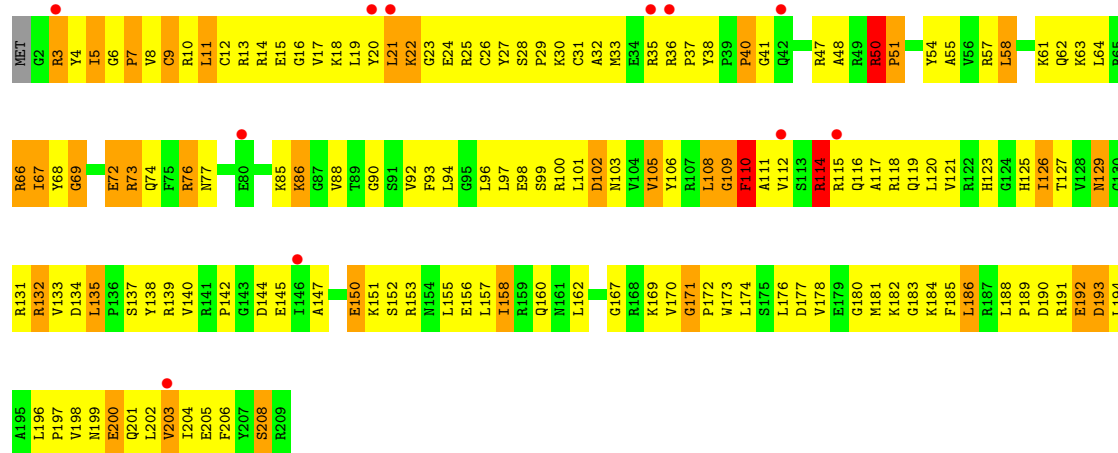


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

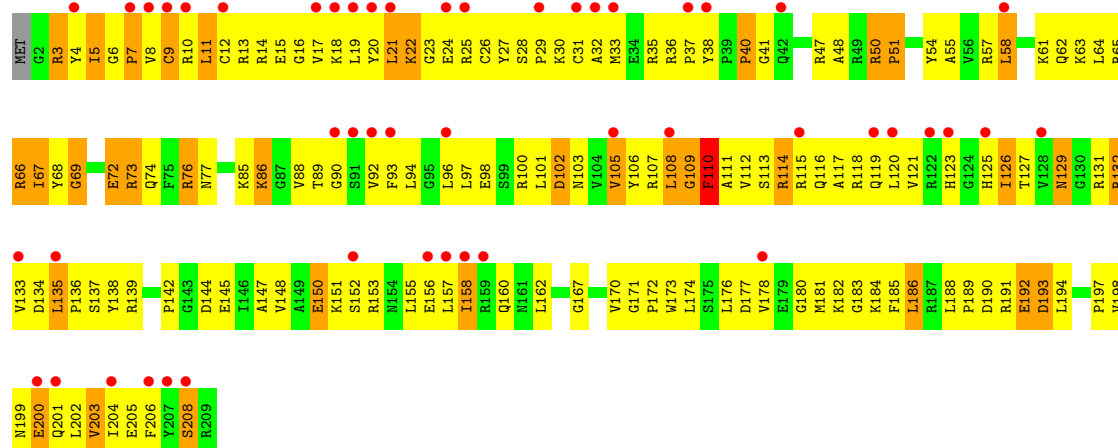




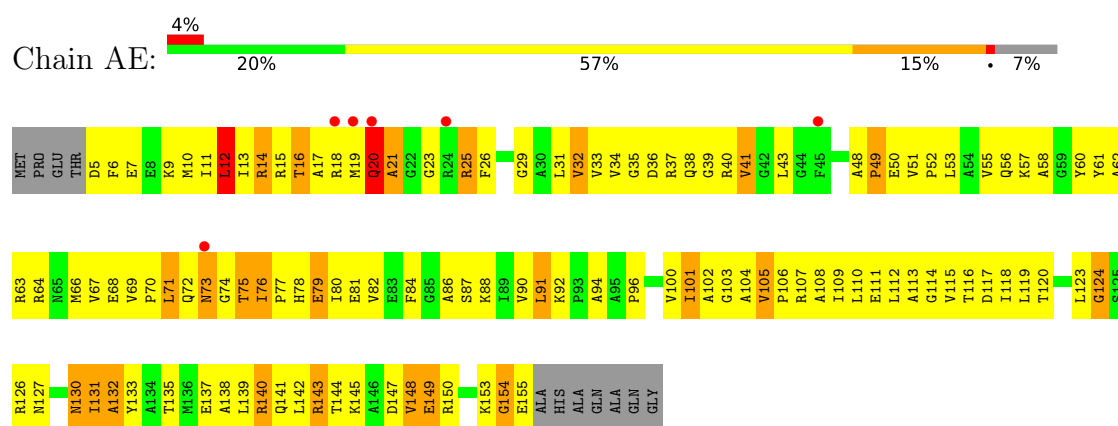
• Molecule 4: 30S RIBOSOMAL PROTEIN S4



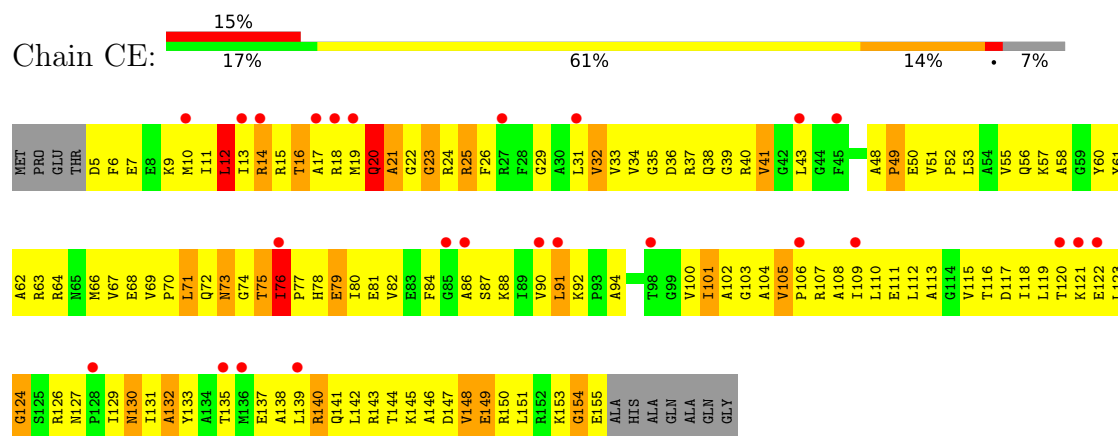
• Molecule 4: 30S RIBOSOMAL PROTEIN S4



• Molecule 5: 30S RIBOSOMAL PROTEIN S5



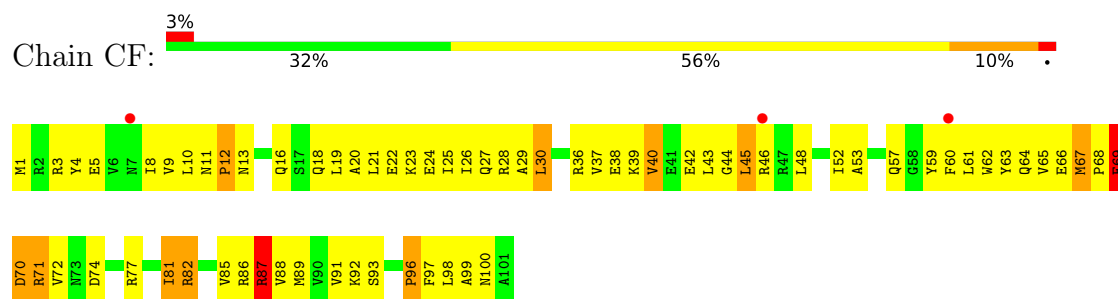
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



• Molecule 6: 30S RIBOSOMAL PROTEIN S6



• Molecule 6: 30S RIBOSOMAL PROTEIN S6

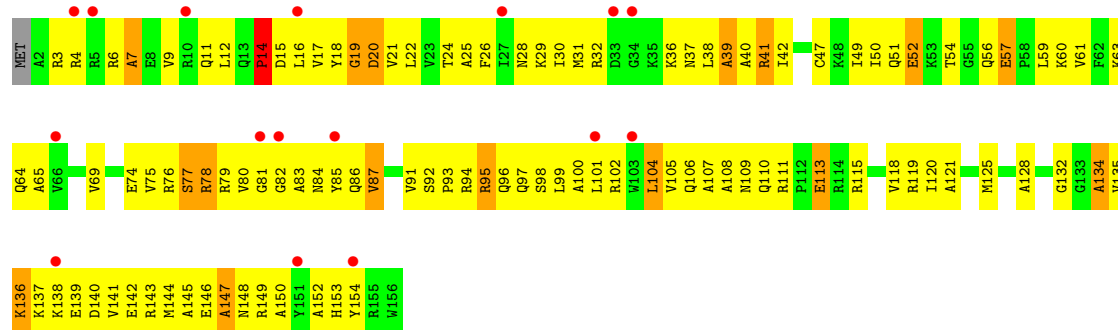


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

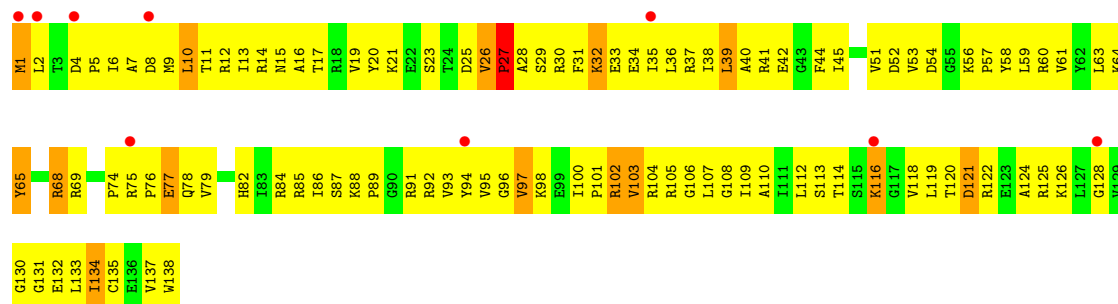




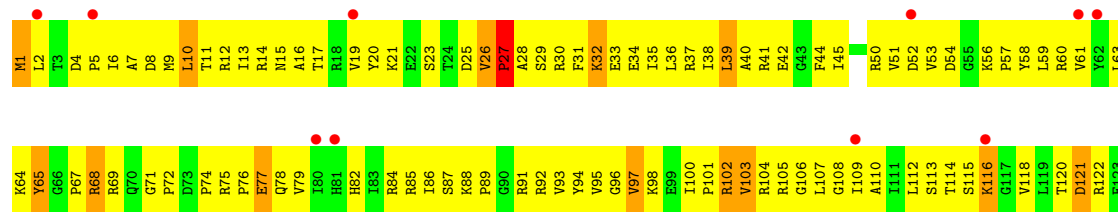
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

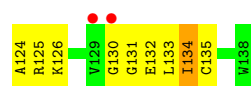


• Molecule 8: 30S RIBOSOMAL PROTEIN S8

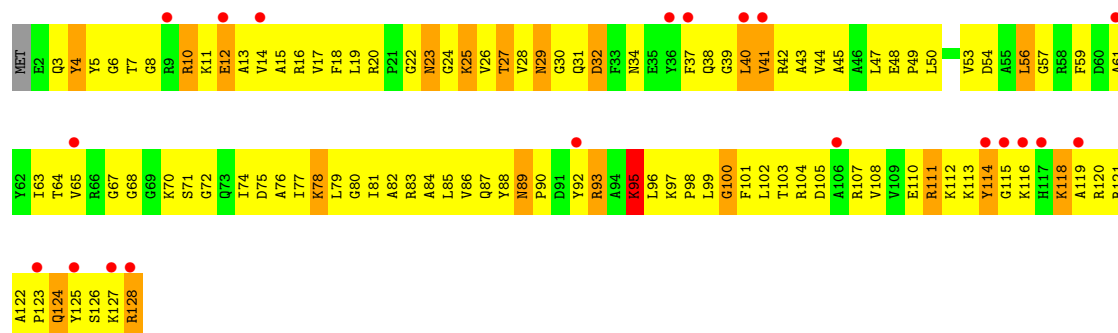


• Molecule 8: 30S RIBOSOMAL PROTEIN S8

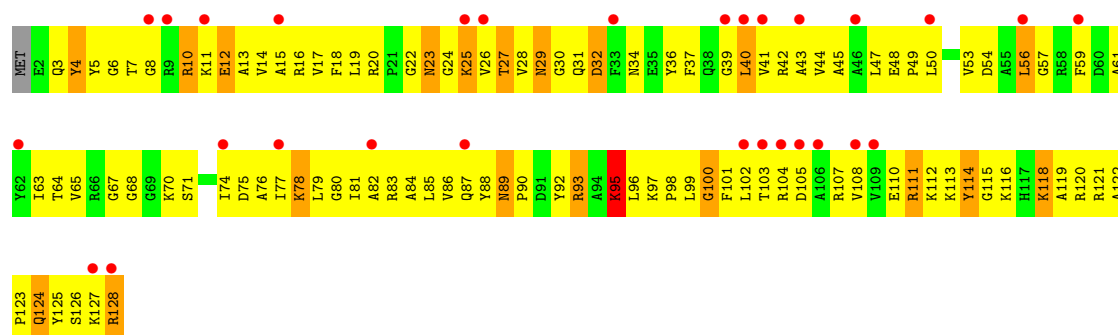




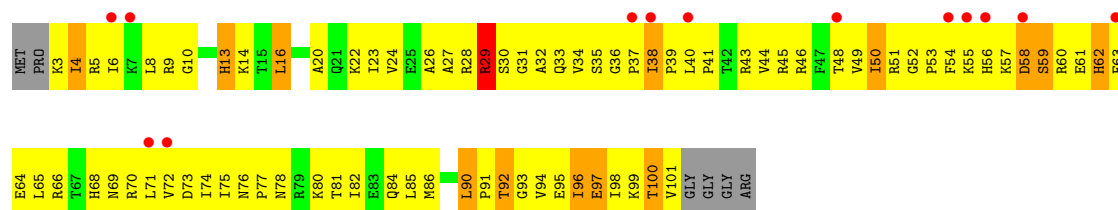
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



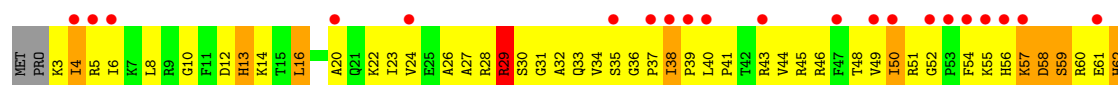
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

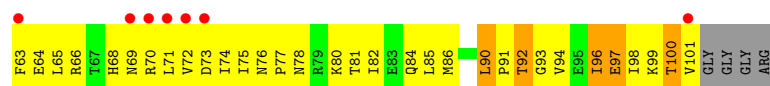


• Molecule 10: 30S RIBOSOMAL PROTEIN S10

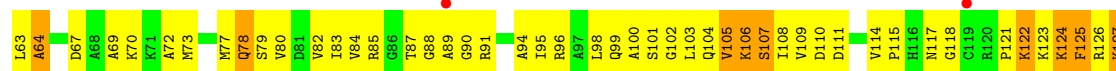
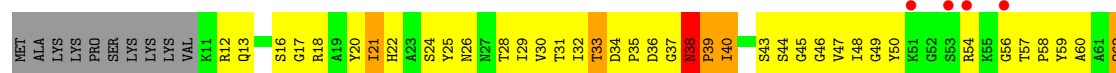


• Molecule 10: 30S RIBOSOMAL PROTEIN S10

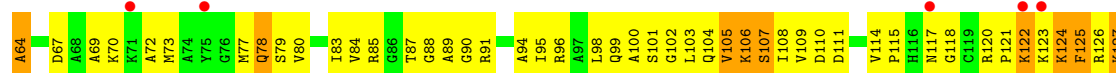
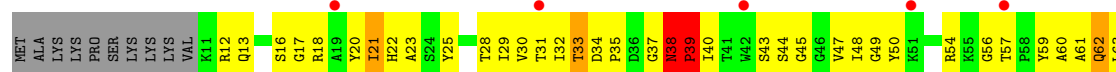




• Molecule 11: 30S RIBOSOMAL PROTEIN S11



• Molecule 11: 30S RIBOSOMAL PROTEIN S11

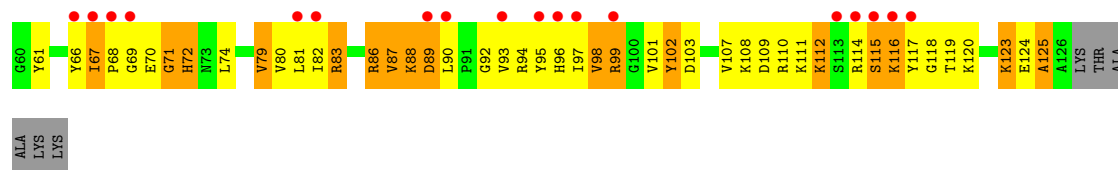


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

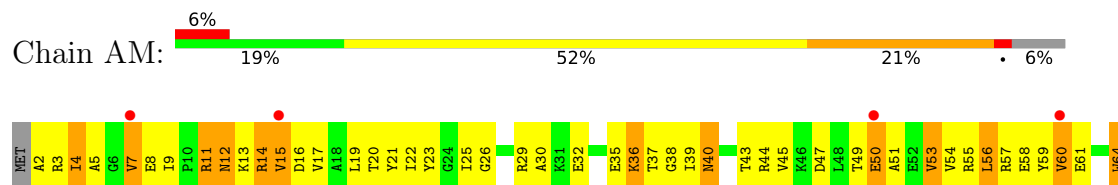


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

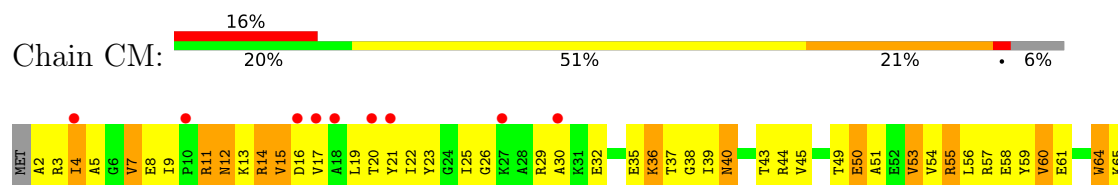




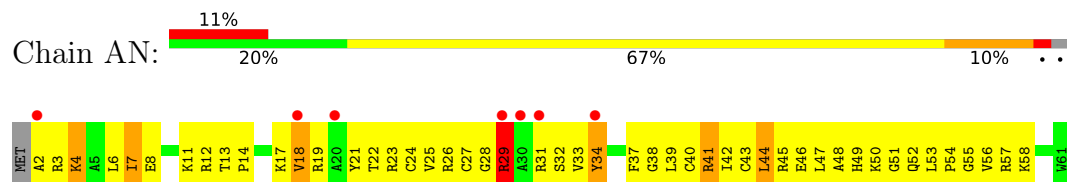
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



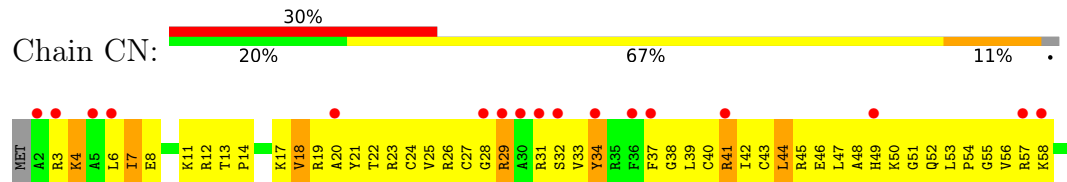
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



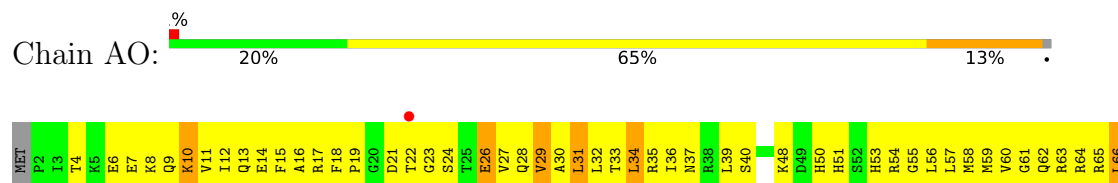
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

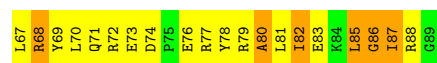


• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



• Molecule 15: 30S RIBOSOMAL PROTEIN S15

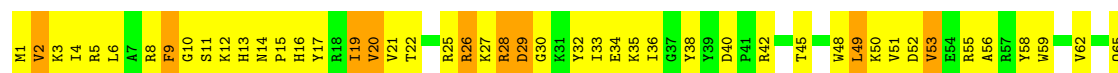




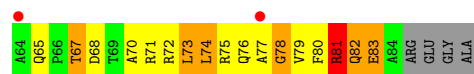
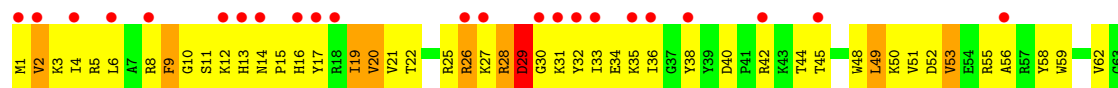
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



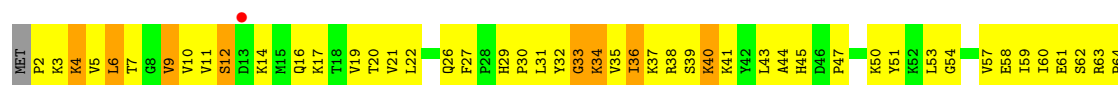
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



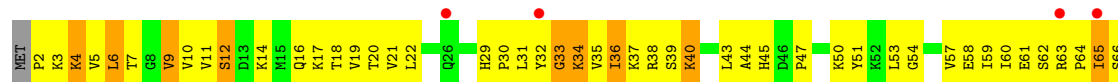
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

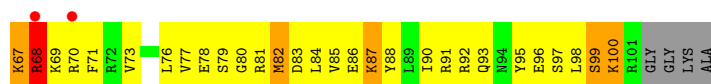


• Molecule 17: 30S RIBOSOMAL PROTEIN S17

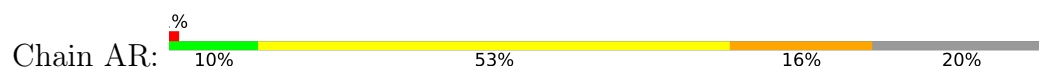


• Molecule 17: 30S RIBOSOMAL PROTEIN S17

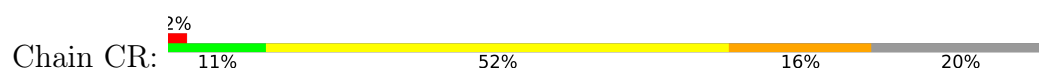




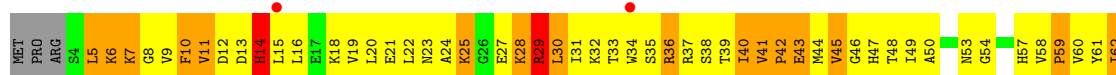
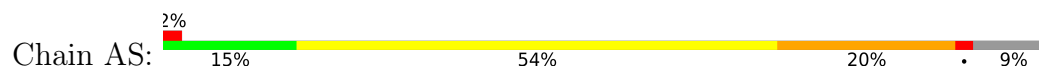
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



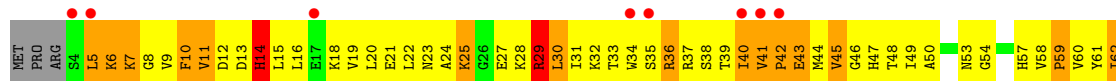
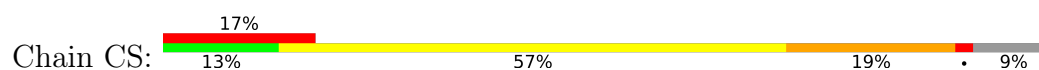
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



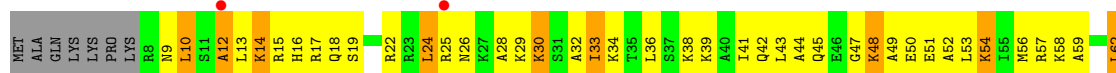
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



• Molecule 19: 30S RIBOSOMAL PROTEIN S19

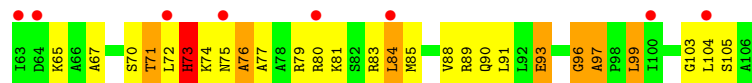
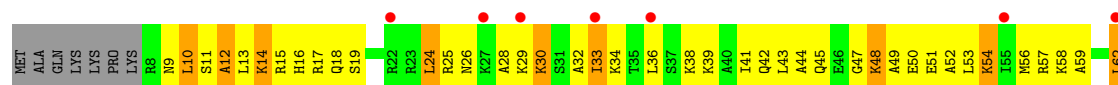


• Molecule 20: 30S RIBOSOMAL PROTEIN S20

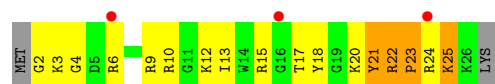




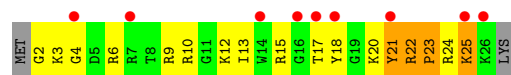
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



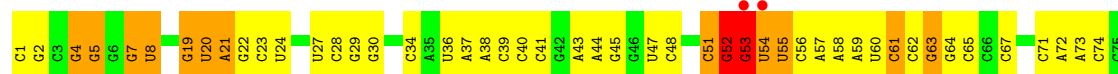
• Molecule 21: 30S RIBOSOMAL PROTEIN THX



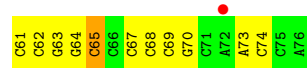
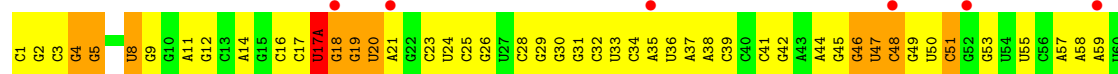
• Molecule 21: 30S RIBOSOMAL PROTEIN THX



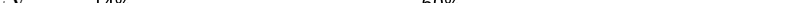
• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

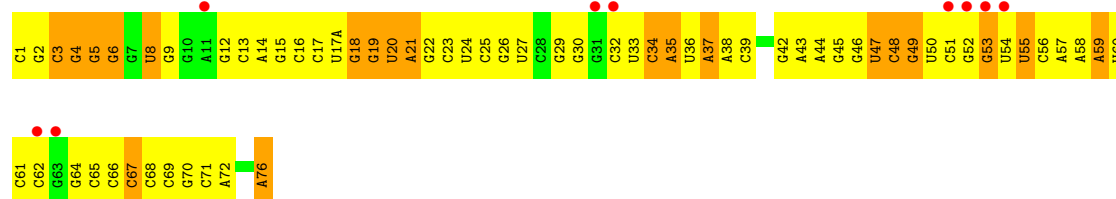


• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

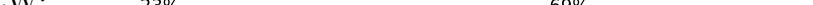


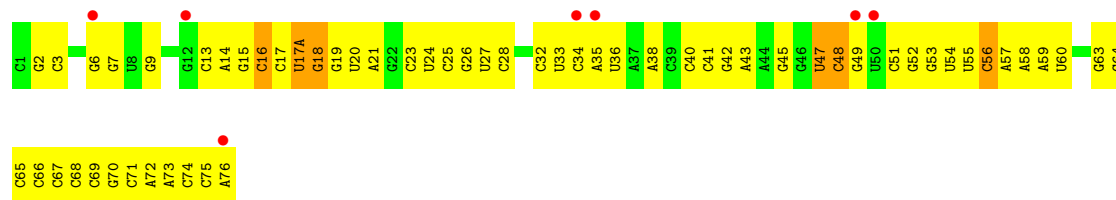
• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

Chain CV: 



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

Chain CW: 

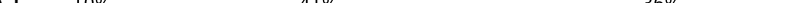


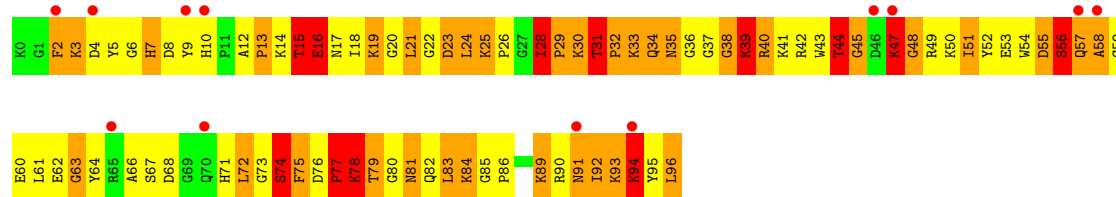
- Molecule 23: mRNA

Chain AX: 

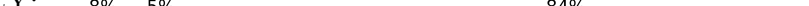


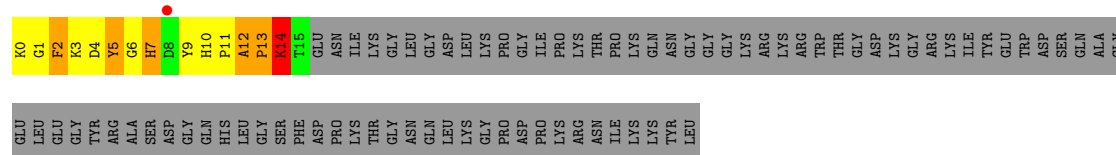
- Molecule 24: COLICIN-E3

Chain AY:  12% 10% 41% 36% 12%

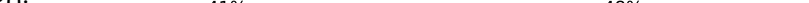


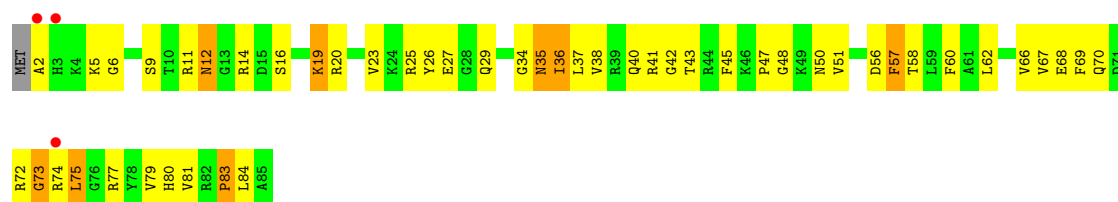
- Molecule 24: COLICIN-E3

Chain CY:  %

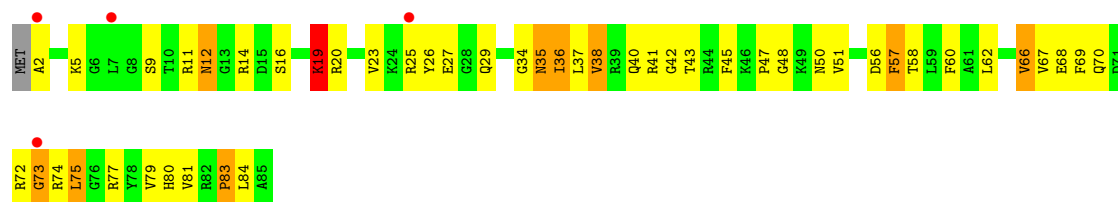


- Molecule 25: 50S RIBOSOMAL PROTEIN L27

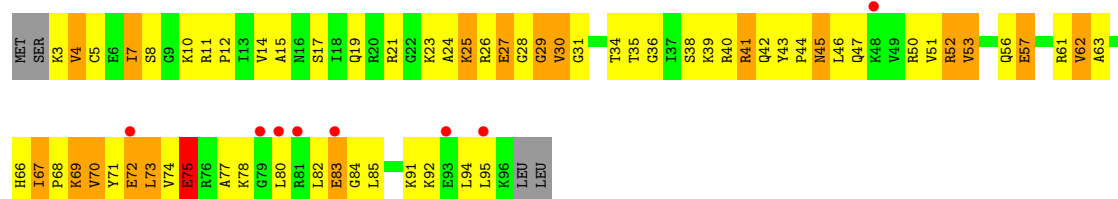
Chain B0:  4% 41% 48% 9%



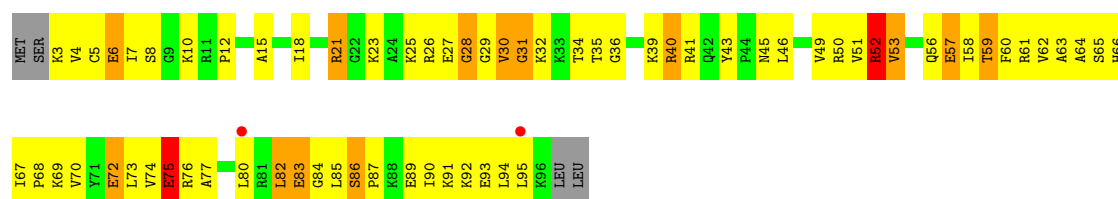
• Molecule 25: 50S RIBOSOMAL PROTEIN L27



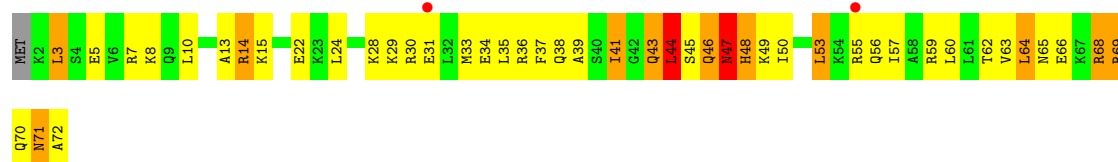
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



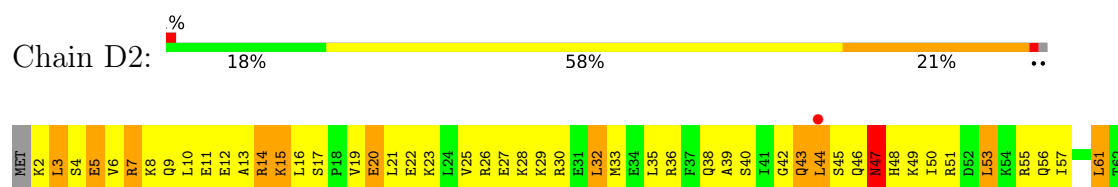
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



• Molecule 27: 50S RIBOSOMAL PROTEIN L29



• Molecule 27: 50S RIBOSOMAL PROTEIN L29



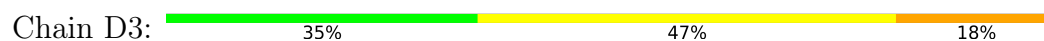
V63
L64
N65
E66
K67
R68
Q69
R70
R71
A72

- Molecule 28: 50S RIBOSOMAL PROTEIN L30



H1
P2
R3
L4
K5
V6
K7
L8
V9
S11
Y15
P16
K17
L26
G27
L28
R29
R30
L31
Q32
Q33
E34
R35
V36
E38
D39
T40
P41
A42
T43
R44
G45
N46
V47
E48
K49
V50
A51
H52
L53
V54
R55
V56
E57
V58
V59
E60

- Molecule 28: 50S RIBOSOMAL PROTEIN L30



H1
P2
R3
L4
K5
V6
K7
L8
V9
S11
Y15
P16
K17
D18
A21
L26
G27
L28
R29
R30
L31
Q32
Q33
E34
R35
V36
L37
E38
D39
T40
P41
A42
T43
R44
G45
N46
V47
E48
K49
V50
A51
H52
L53
V54
R55
V56
E57
V58
V59
E60

- Molecule 29: 50S RIBOSOMAL PROTEIN L31



MET
LYS
E3
G4
I5
H6
P7
K8
L9
V10
P11
A12
R13
I14
I15
C16
G17
C18
V21
I22
E23
T24
Y25
S26
T27
K28
P29
E30
I31
Y32
V33
E34
V35
C36
S37
P41
F42
Y43
T44
G45
Q46
Q47
R48
F49
V50
D51
T52
E53
G54
R55
V56
V57
R58
PHE
GLN
ARG
TYR
TYR

GLY
ASP
SER
TYR
ARG
LYS
GLY
ARG

- Molecule 29: 50S RIBOSOMAL PROTEIN L31



MET
LYS
E3
G4
I5
H6
P7
K8
L9
V10
P11
A12
R13
I14
I15
C16
G17
C18
V21
I22
E23
T24
Y25
S26
T27
K28
P29
E30
I31
Y32
V33
E34
V35
C36
P41
F42
Y43
T44
G45
Q46
Q47
R48
F49
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V56
V57
R58
PHE
GLN
ARG
TYR
TYR
GLY

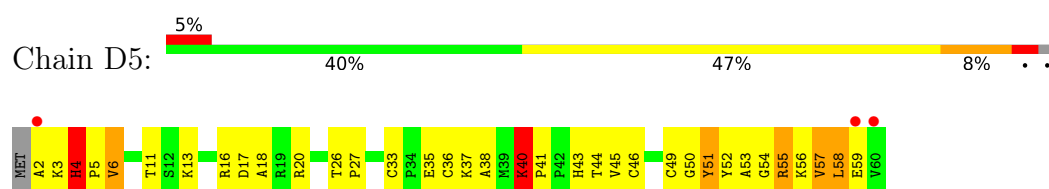
ASP
SER
TYR
ARG
LYS
GLY
ARG

- Molecule 30: 50S RIBOSOMAL PROTEIN L32

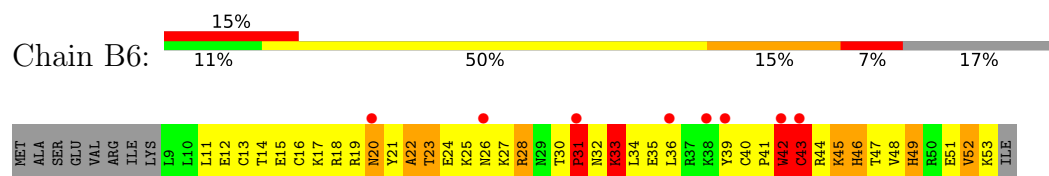


MET
A2
H3
R4
P5
V6
K13
R16
D17
A18
R19
R20
T26
P27
C33
P34
E35
C36
K37
A38
K39
K40
P41
H43
T44
V45
C46
G50
Y51
Y52
A53
G54
R55
K56
V57
L58
E59
V60

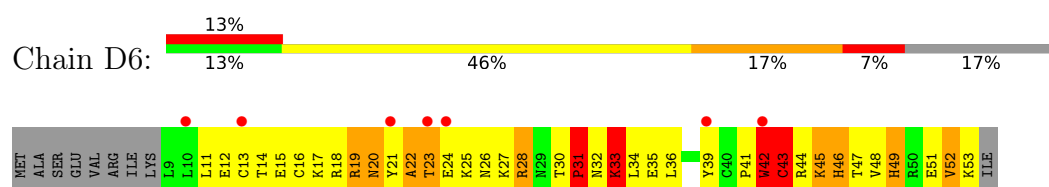
- Molecule 30: 50S RIBOSOMAL PROTEIN L32



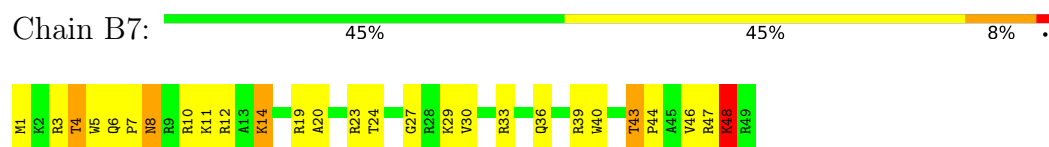
• Molecule 31: 50S RIBOSOMAL PROTEIN L33



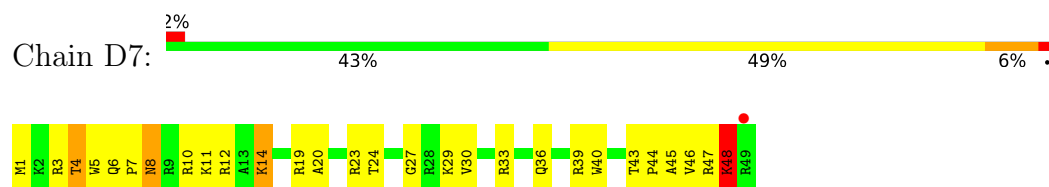
• Molecule 31: 50S RIBOSOMAL PROTEIN L33



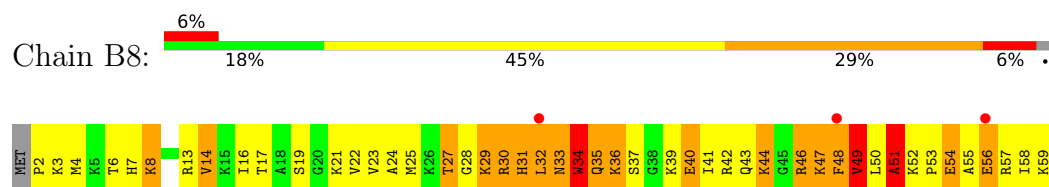
• Molecule 32: 50S RIBOSOMAL PROTEIN L34



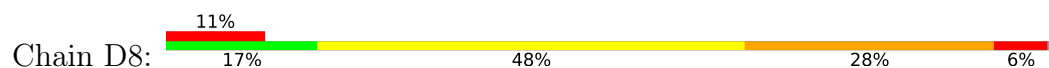
• Molecule 32: 50S RIBOSOMAL PROTEIN L34

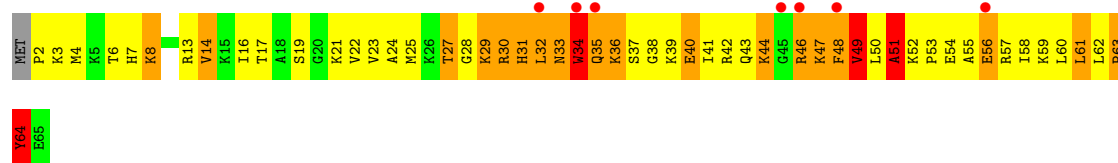


• Molecule 33: 50S RIBOSOMAL PROTEIN L35



• Molecule 33: 50S RIBOSOMAL PROTEIN L35





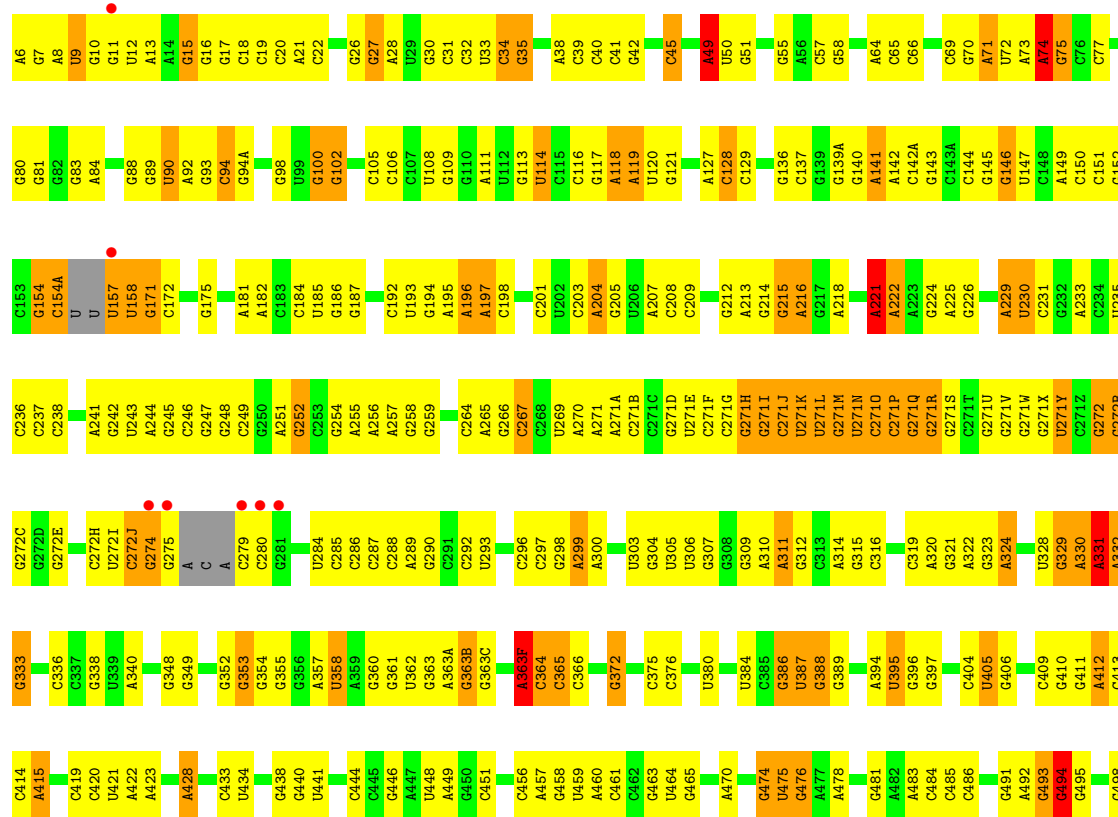
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

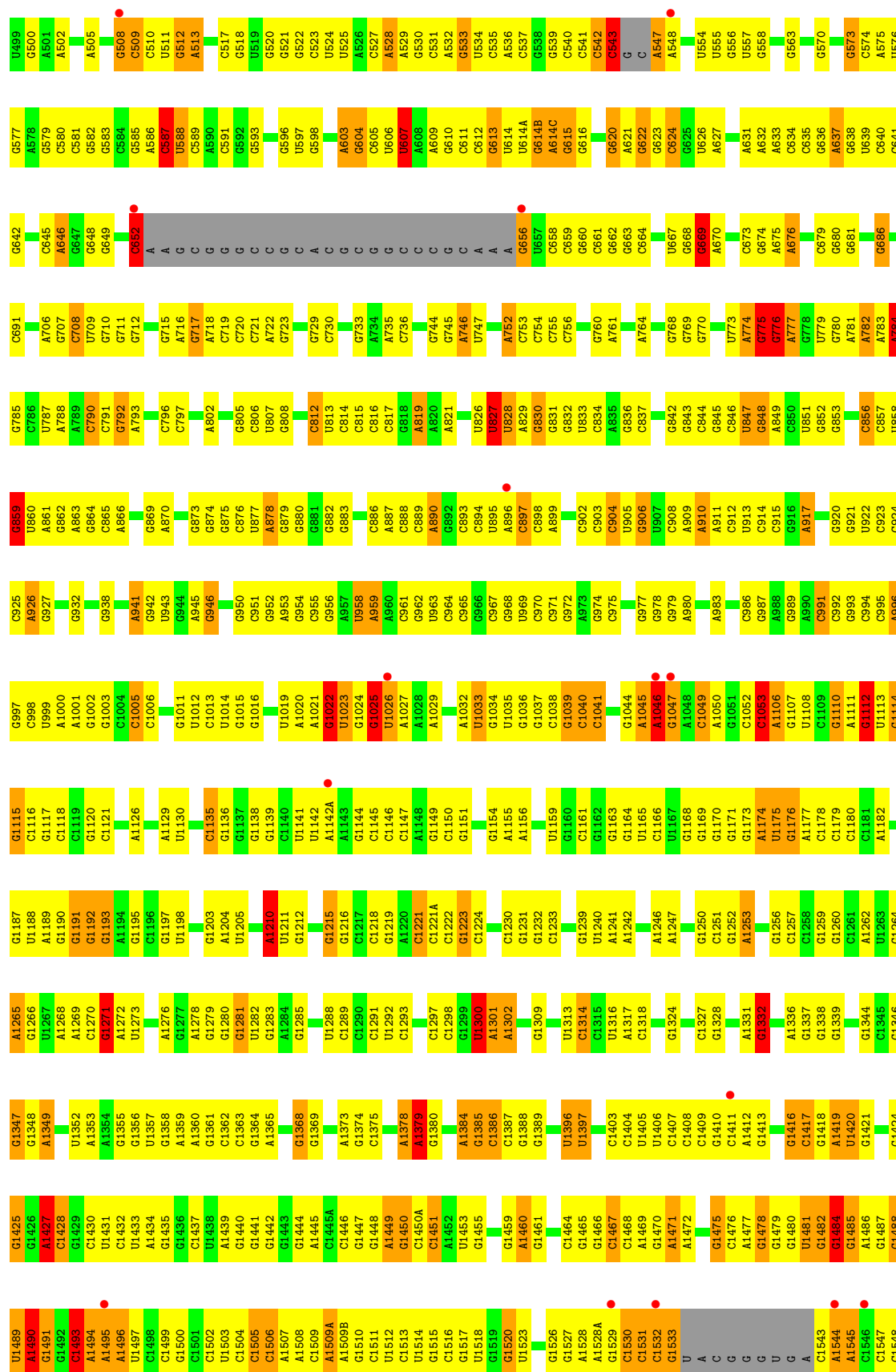


• Molecule 34: 50S RIBOSOMAL PROTEIN L36

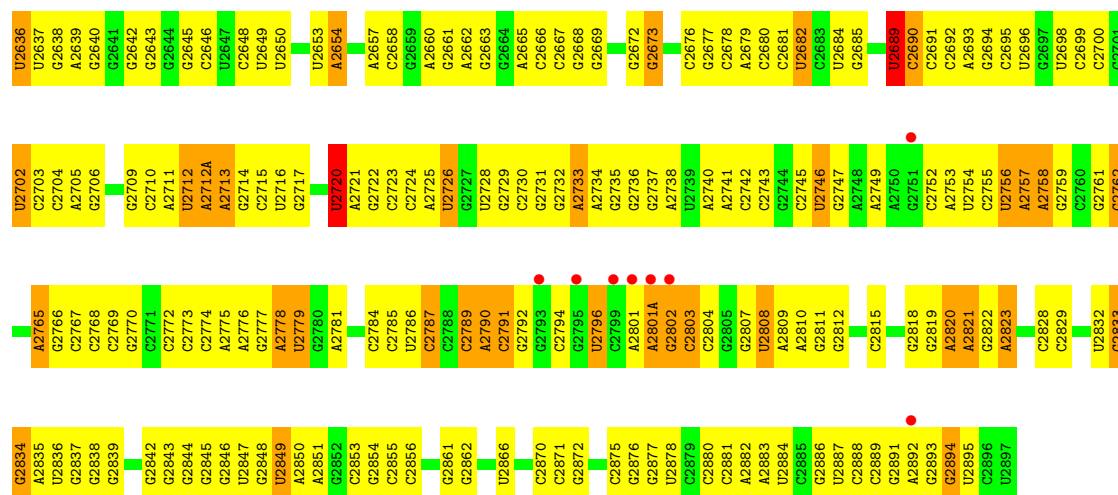


• Molecule 35: 23S ribosomal RNA

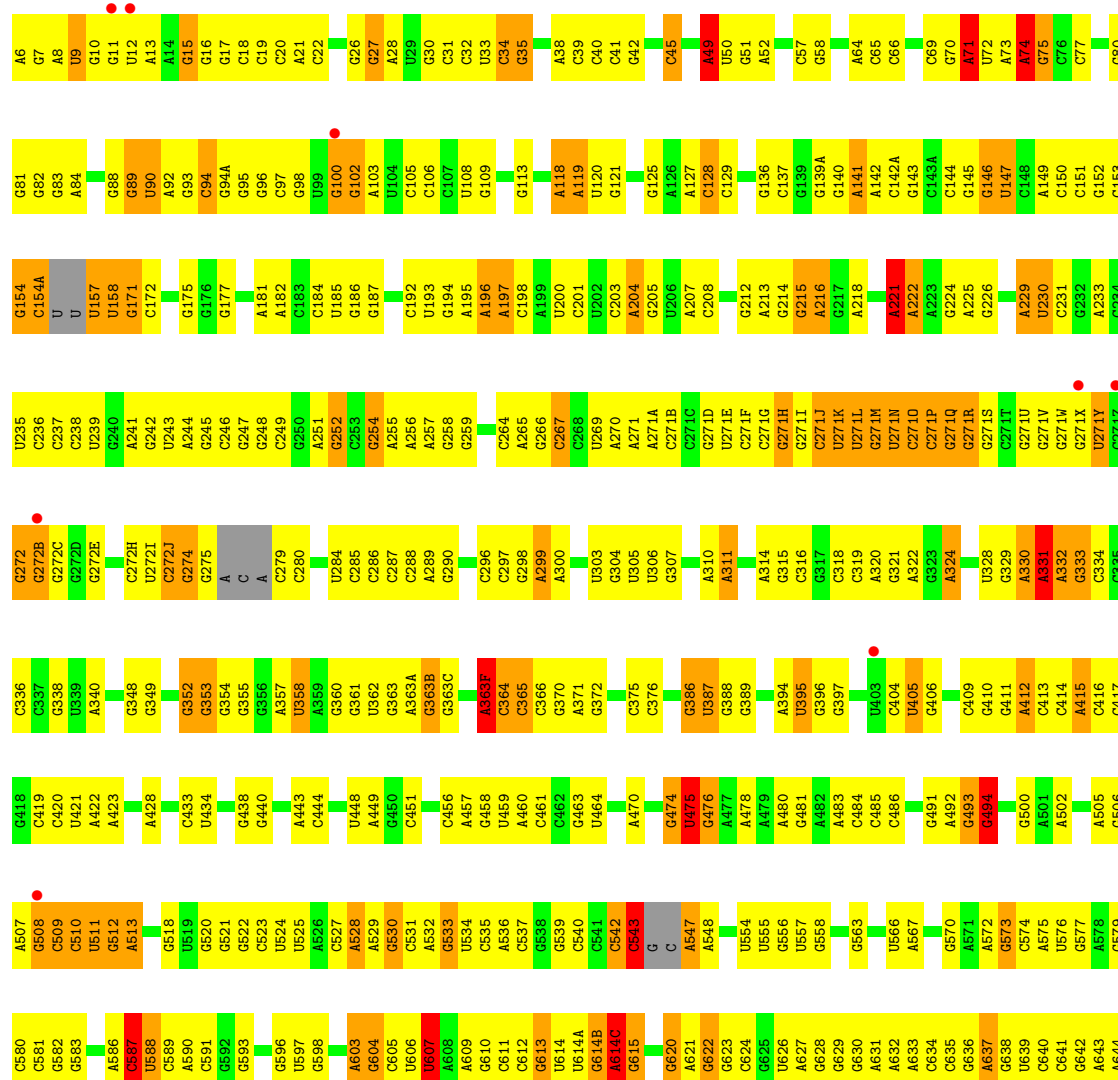


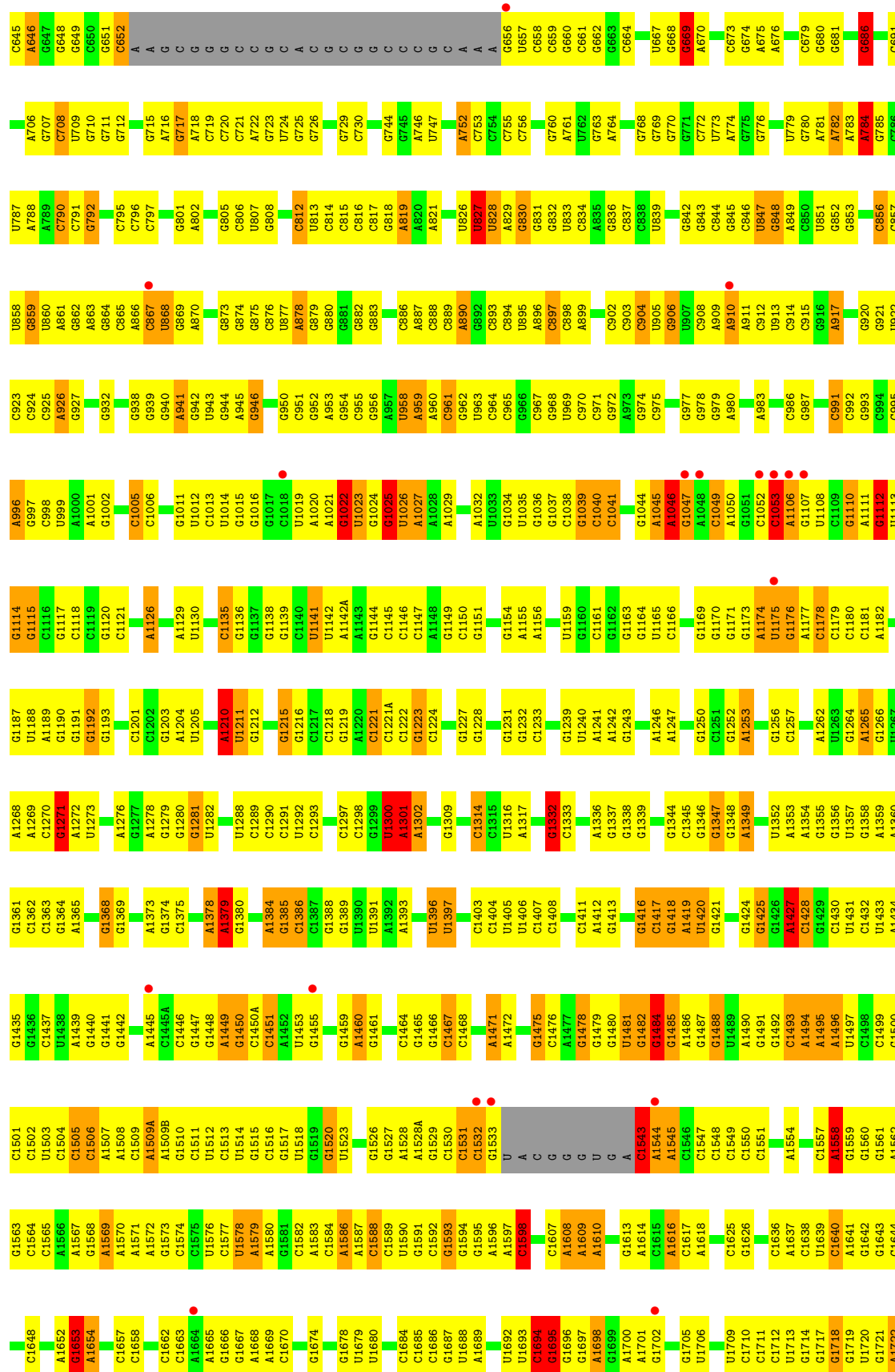


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U2563	C2477	U2406	A2353	A2268	C2178	G2112	U2034	U1955	C1880	G1804	G1718	C1636	C1550
A2564	A2478	G2407	G2334	G2288	C2179	U2113	G2035	U1956	C1882	C1805	U1720	A1637	C1551
A2565	G2479	U2408	A2335	G2272	G2182	A2114	G2036	C1957	C1883	G1806	U1721	C1638	A1554
A2566	G2480	G2409	A2336	U2273	G2183	G2115	G2037	G1962	A1884	C1807	A1722	U1639	C1557
G2567	G2410	G2411	G2339	A2274	G2186	G2116	C2038	U1963	A1885	U1808	U1739	C1640	C1558
C2568	G2482	A2412	G2340	G2275	G2189	U2118	C2040	G1964	C1886	A1809	G1740	A1641	G1559
G2569	G2485	G2413	G2341	G2276	U2189	A2119	A2042	G1967	G1887	A1810	G1742	G1643	G1560
G2570	G2488	G2414	C2342	G2277	G2192	G2120	C2043	U1968	A1889	G1811	C1743	C1644	G1561
C2573	A2489	U2415	G2343	G2278	G2193	G2123	G2062	A1969	C1894	A1815	C1744	G1648	A1562
G2574	G2416	G2344	U2345	G2279	G2194	G2124	G2062	A1970	C1895	G1816	C1745	G1648	G1563
G2575	A2418	A2346	G2346	C2281	G2195	G2125	C2065	A1971	C1896	G1817	G1746	C1648	C1564
A2577	U2419	U2347	G2347	G2282	C2196	A2126	G2055	A1972	G1897	U1818	A1652	C1653	C1565
C2578	G2420	U2348	C2348	G2283	U2197	G2127	G2056	G1973	C1898	A1819	G1747	G1653	A1566
G2579	G2421	G2349	G2349	C2284	U2198	C2128	C2066	C1974	U1988	U1820	G1747A	A1654	G1567
U2580	A2422	C2350	G2350	C2285	A2198	C2129	A2060	G1989	C1899	A1821	G1748	C1657	G1568
G2581	U2423	G2351	G2351	A2286	U2199	U2130	G2061	C1982	A1900	G1824	C1754	C1657	A1569
G2582	C2424	A2354	G2354	A2287	C2201	G2131	A2062	C1983	A1901	A1825	C1755	C1658	A1570
G2583	A2425	A2355	G2355	A2288	C2202	U2132	C2063	C1987	C1902	G1826	G1756	A1665	A1572
U2584	G2426	U2357	G2357	G2289	U2203	G2133	C2064	G1988	G1903	C1827	G1678	G1678	A1573
U2585	A2427	U2357	G2358	G2290	U2203	A2134	C2065	G1989	G1904	G1827	G1679	G1679	C1574
G2586	G2428	G2358	G2358	G2291	G2205	A2135	C2066	G1990	C1905	A1828	G1679	G1679	C1575
A2587	G2429	C2359	G2359	G2292	G2207	C2136	G2067	C1991	G1906	A1829	G1679	G1679	C1576
G2588	A2430	A2361	G2361	C2293	G2207	C2137	U2068	U1991	G1907	C1830	G1764	A1669	U1576
A2589	A2434	G2364	G2364	C2297	A2208	C2138	G2069	G1992	C1908	G1831	C1765	C1674	U1577
G2590	U2438	C2365	G2365	A2298	U2218	C2139	G2072	U1993	C1909	G1832	U1766	G1674	U1578
C2591	G2439	U2366	G2366	G2299	G2220	G2141	C2073	C1996	G1910	U1833	C1767	G1678	A1579
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G2597	G2523	G2372	G2372	G2303	G2224	U2144	U2079	G2000	C1914	C1837	G1772	C1684	C1583
A2600	G2524	G2373	G2373	G2304	A2225	C2145	G2080	G2001	U1915	C1838	G1773	C1685	A1584
C2601	G2527	G2374	G2374	A2305	C2226	G2146	C2081	G2002	U1917	G1839	G1776	C1686	A1587
A2602	U2528	G2375	G2375	G2306	A2227	G2148	C2084	C2007	A1918	G1844	U1777	G1687	C1588
G2603	G2529	A2377	G2377	G2307	G2230	G2154	C2085	C2008	C1919	G1845	U1778	U1688	C1589
C2606	A2530	G2377	G2377	G2308	C2231	G2155	U2086	G2009	C1920	G1846	U1779	U1692	U1590
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G2610	G2532	G2382	G2382	U2311	U2233	G2157	G2087	G2010	G1922	A1848	C1782	C1694	G1593
C2612	A2534	G2383	G2383	U2312	G2234	A2158	G2090	A2014	C1925	U1851	A1783	G1695	G1594
U2615	G2537	G2384	G2384	C2313	G2235	G2159	U2091	A2015	U1926	C1852	A1784	G1696	G1595
G2616	C2538	U2387	G2387	G2314	G2239	G2160	U2092	U2016	A1927	A1854	A1785	G1697	A1596
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G2618	G2543	G2390	G2390	G2316	G2239	G2162	G2093	A2020	G1929	G1856	A1787	G1699	C1598
G2619	G2544	G2391	G2391	C2317	U2243	G2163	U2098	A2021	C2021	G1857	C1788	A1701	C1607
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G2628	G2472	G2400	G2400	A2328	C2258	A2173	C2107	A2030	U1946	A1877	U1798	C1711	C1619
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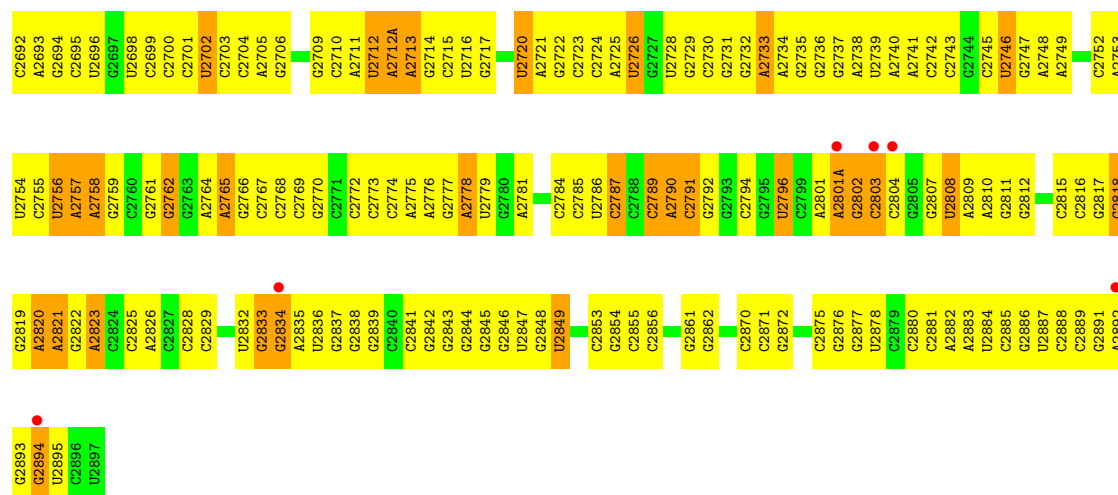


• Molecule 35: 23S ribosomal RNA

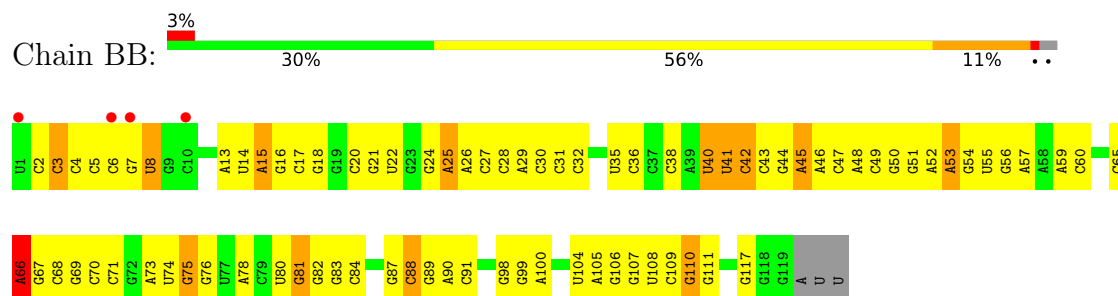




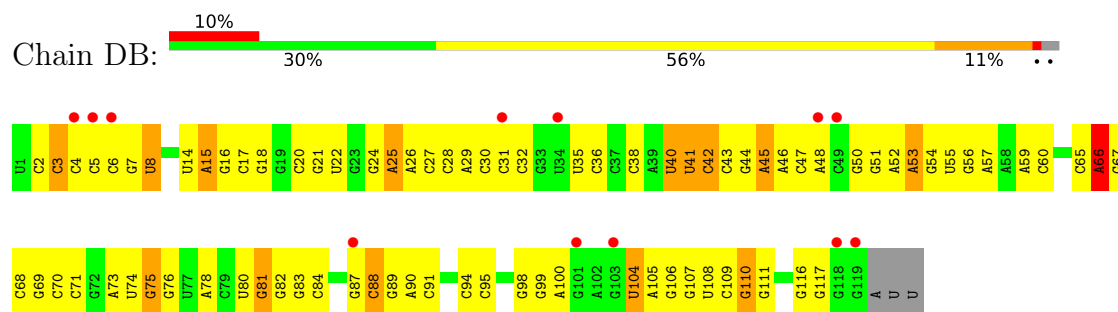
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C2471	C2472	C2473	C2474	C2475	C2476	C2477	A2478	C2479	C2480	C2481	C2482	C2485	C2488	C2491	C2492	C2498	C2499	C2500	C2501	C2502	A2503	U2504	C2505	U2506	C2507	C2510	C2511	C2512	U2513	U2514	C2515	C2516	C2517	C2518	U2519	C2520	C2523	C2524	C2525	C2526	C2527	U2528	C2529	C2530	A2531	C2532	C2533	A2534	C2537	C2538	C2539	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	
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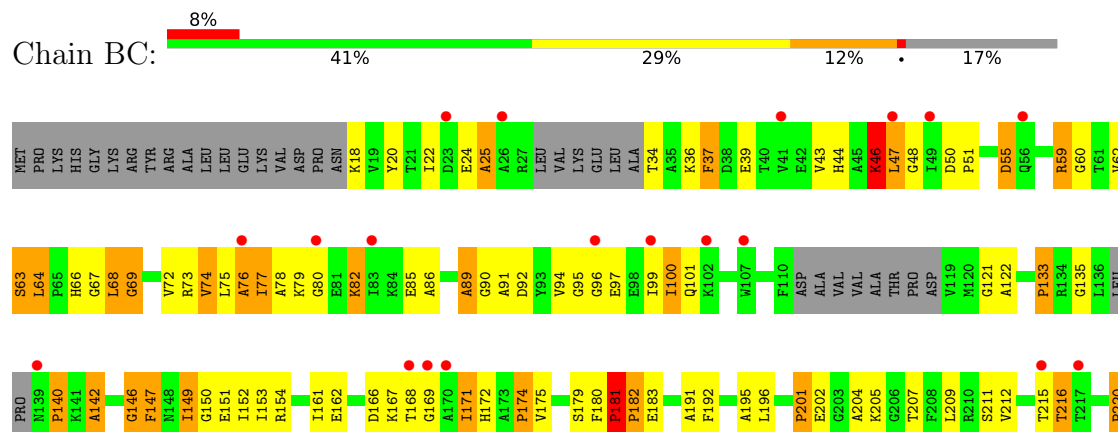
• Molecule 36: 5S ribosomal RNA



• Molecule 36: 5S ribosomal RNA

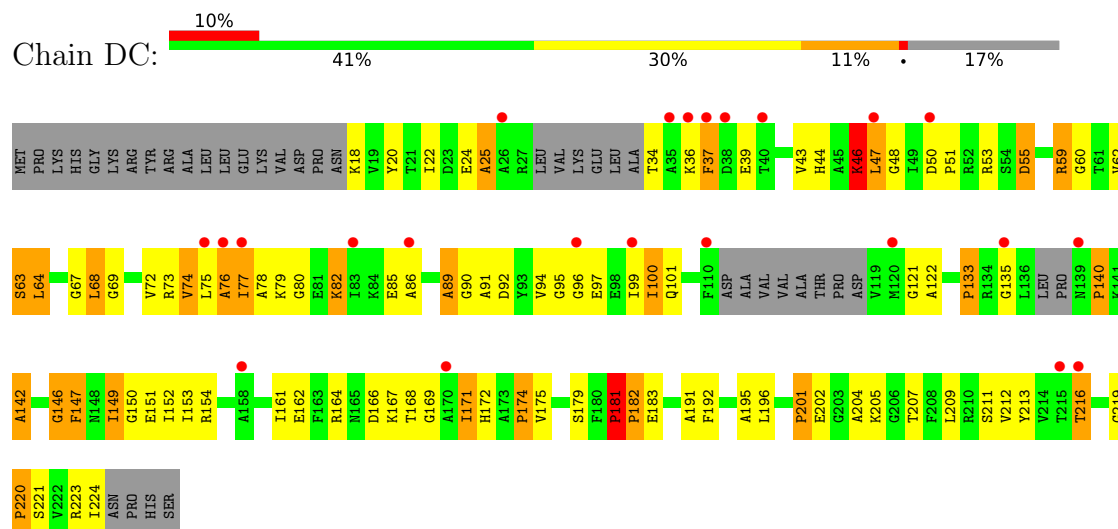


• Molecule 37: 50S RIBOSOMAL PROTEIN L1

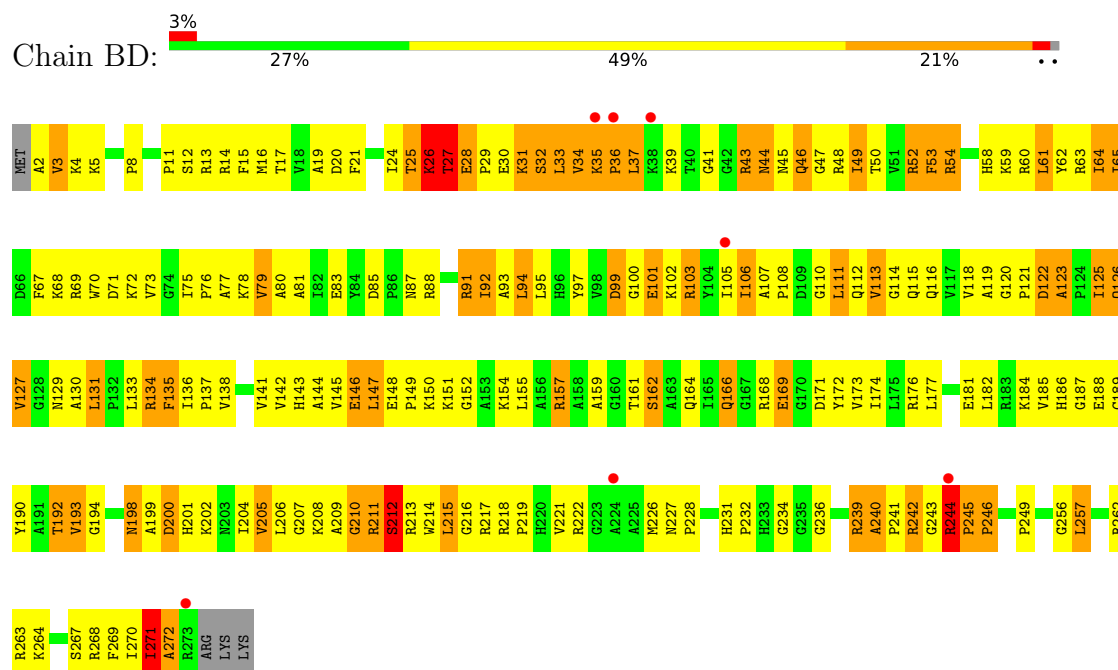




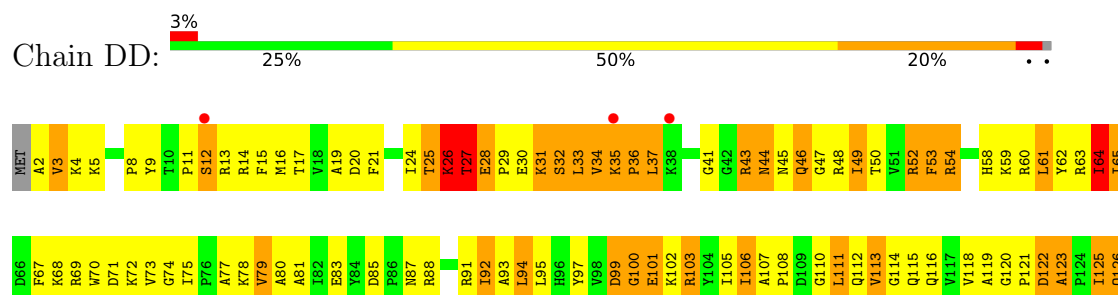
• Molecule 37: 50S RIBOSOMAL PROTEIN L1

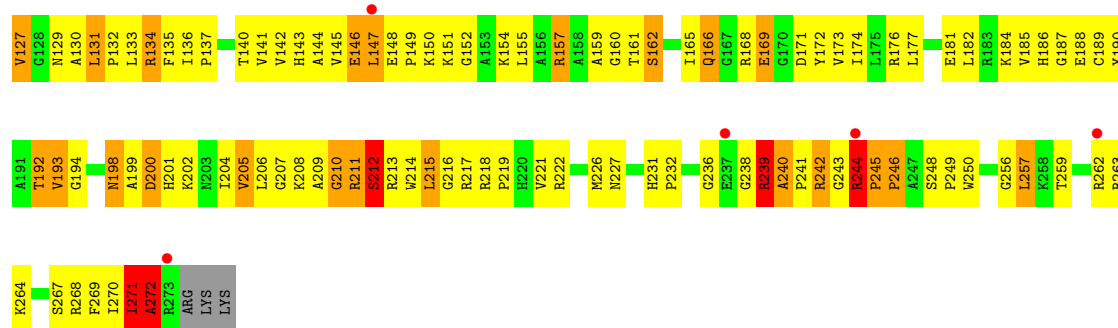


• Molecule 38: 50S RIBOSOMAL PROTEIN L2

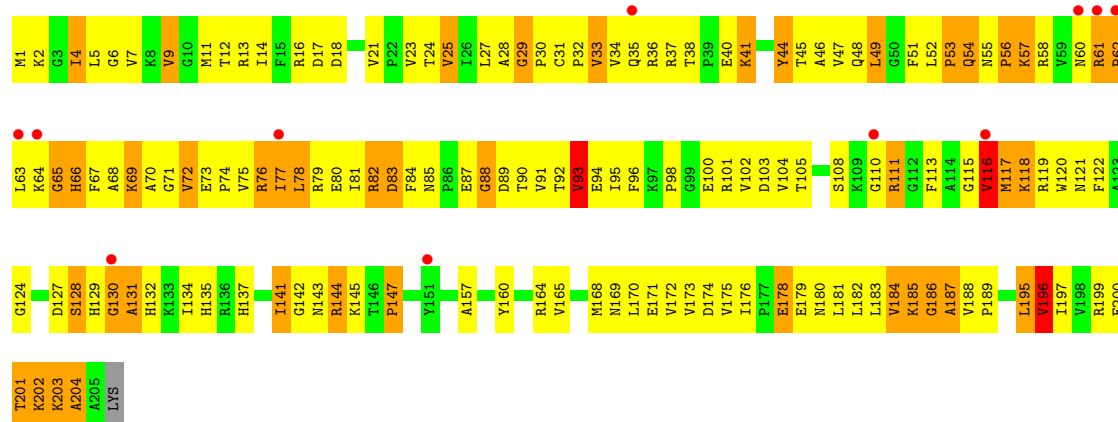


• Molecule 38: 50S RIBOSOMAL PROTEIN L2

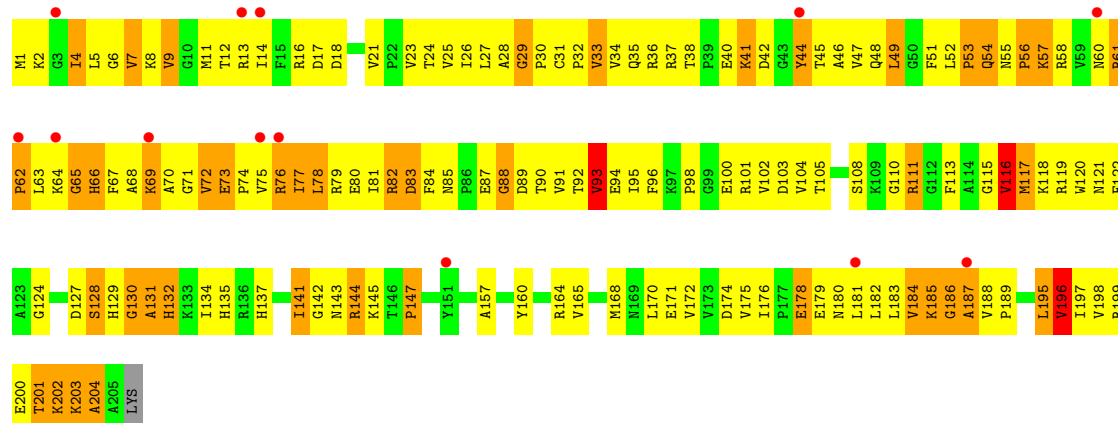




• Molecule 39: 50S RIBOSOMAL PROTEIN L3

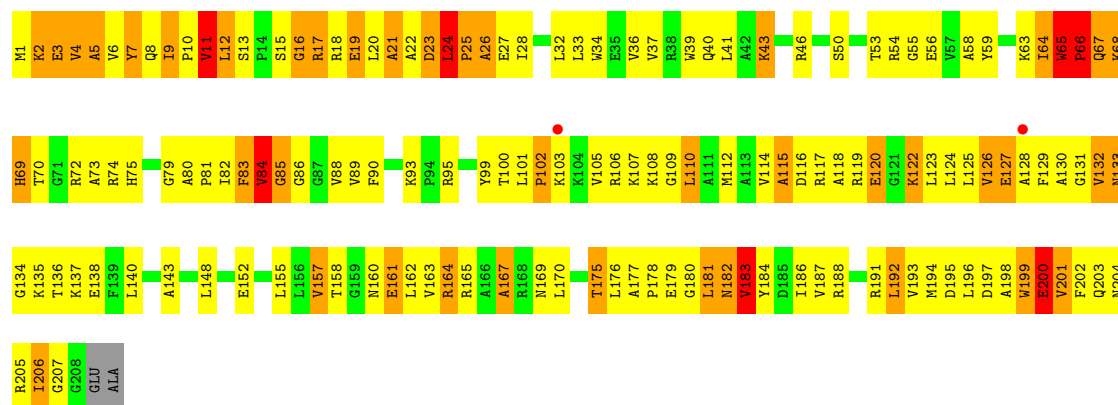


• Molecule 39: 50S RIBOSOMAL PROTEIN L3

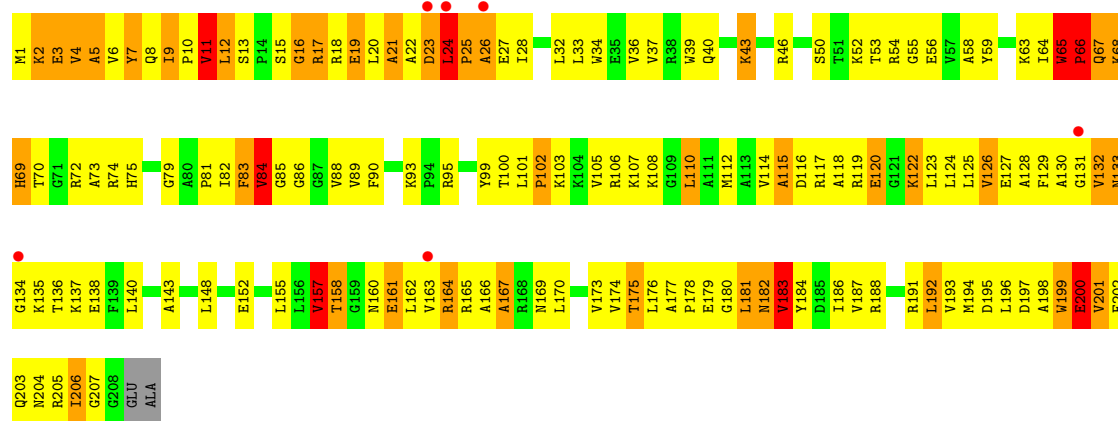


• Molecule 40: 50S RIBOSOMAL PROTEIN L4

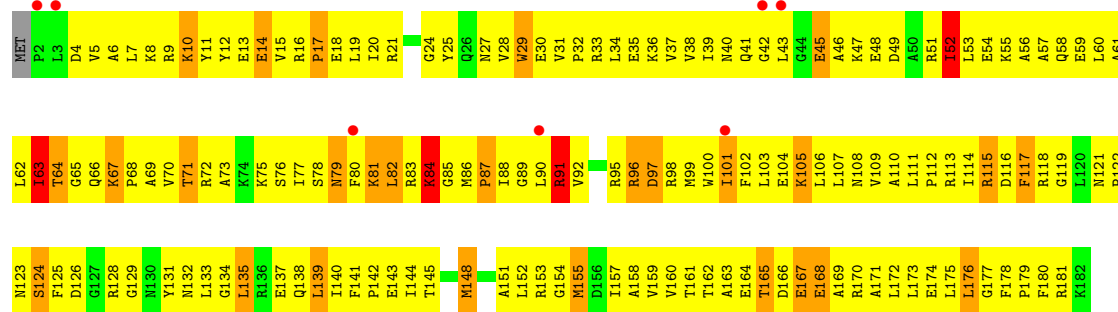
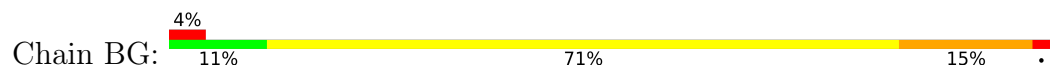




● Molecule 40: 50S RIBOSOMAL PROTEIN L4

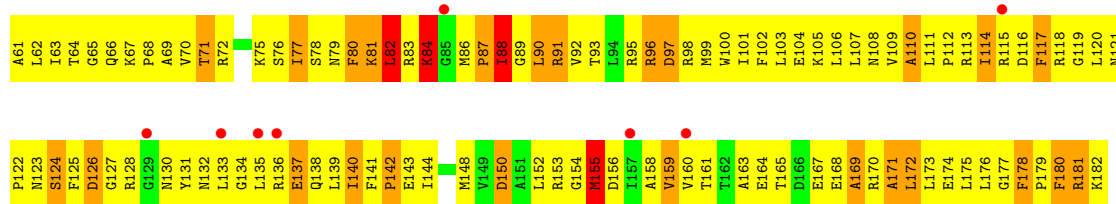


● Molecule 41: 50S RIBOSOMAL PROTEIN L5

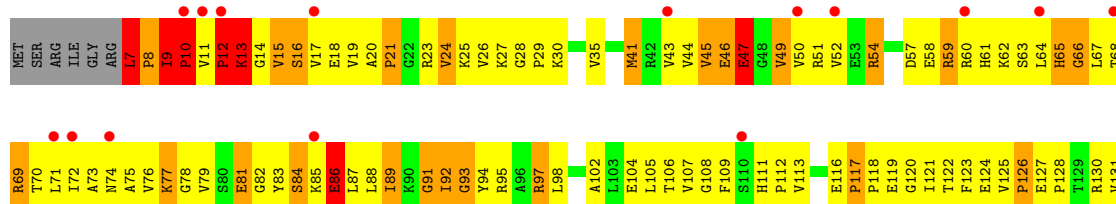
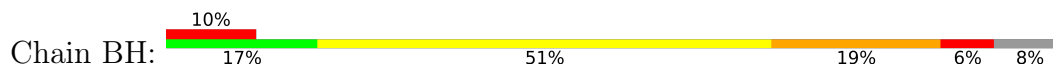


● Molecule 41: 50S RIBOSOMAL PROTEIN L5

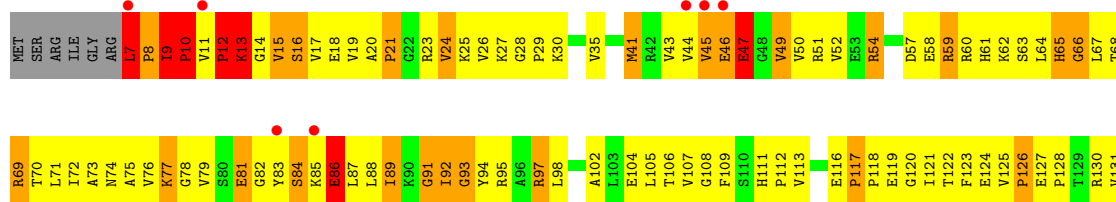
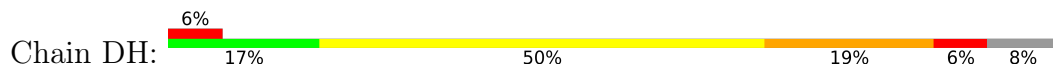




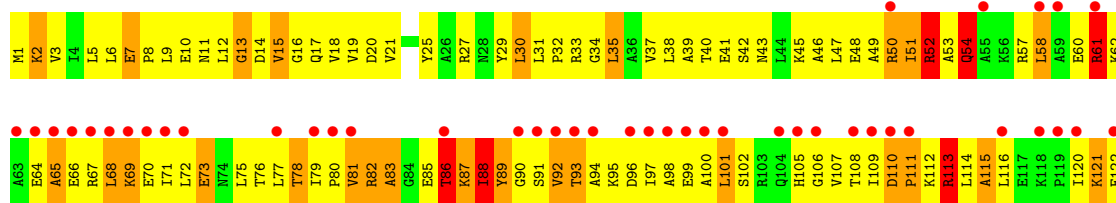
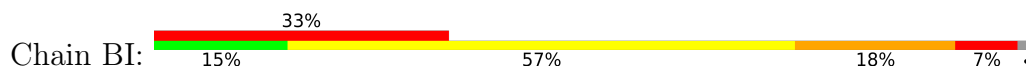
• Molecule 42: 50S RIBOSOMAL PROTEIN L6



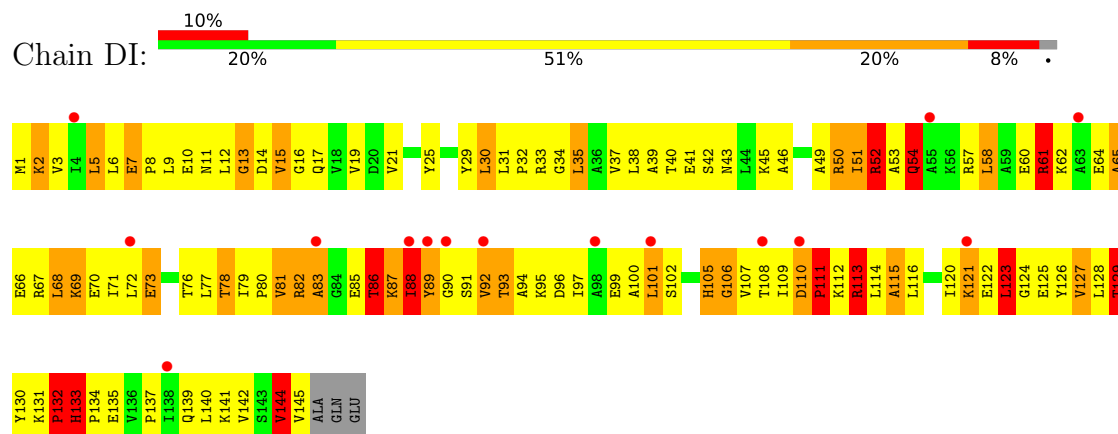
• Molecule 42: 50S RIBOSOMAL PROTEIN L6



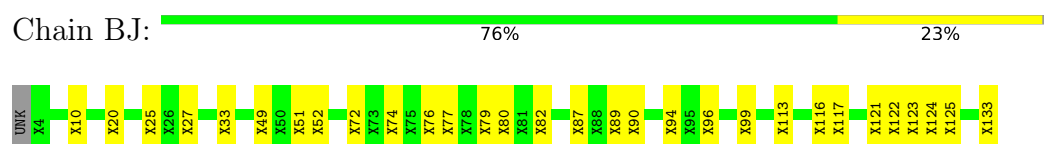
• Molecule 43: 50S RIBOSOMAL PROTEIN L9



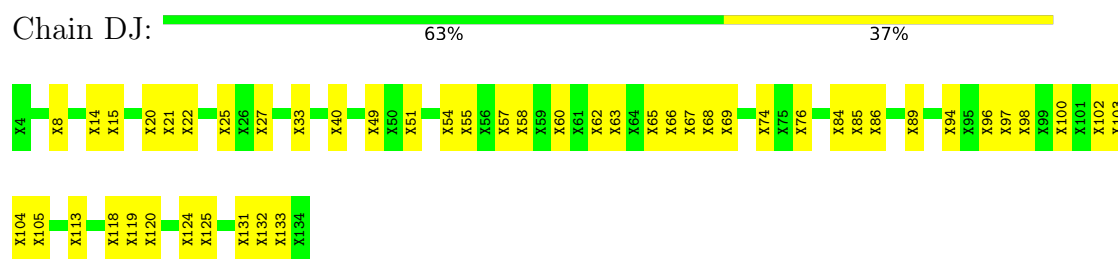
- Molecule 43: 50S RIBOSOMAL PROTEIN L9



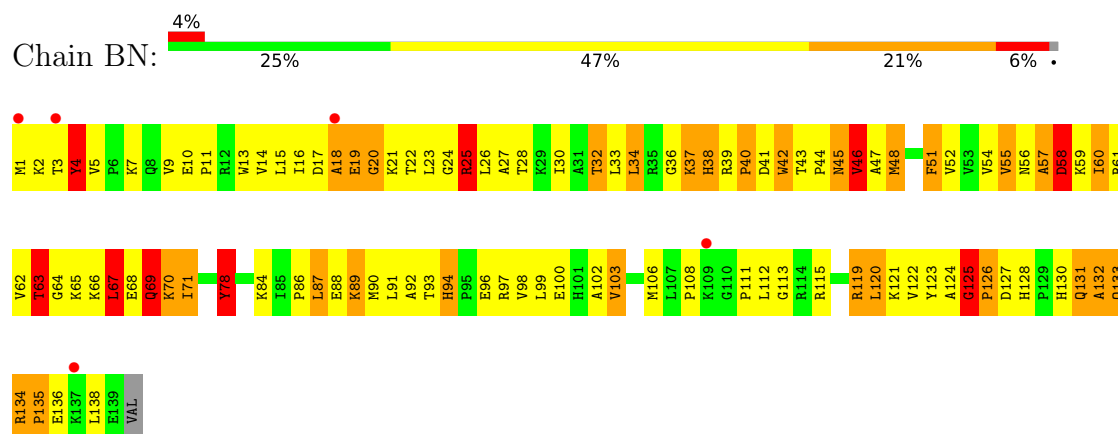
- Molecule 44: 50S RIBOSOMAL PROTEIN L10



- Molecule 44: 50S RIBOSOMAL PROTEIN L10

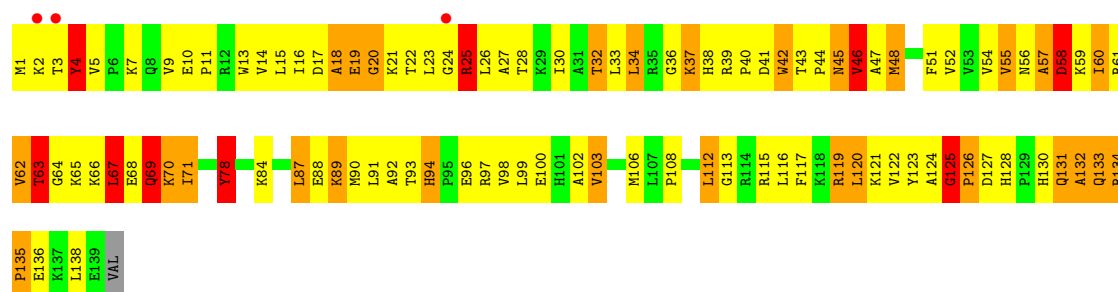


● Molecule 45: 50S RIBOSOMAL PROTEIN L13

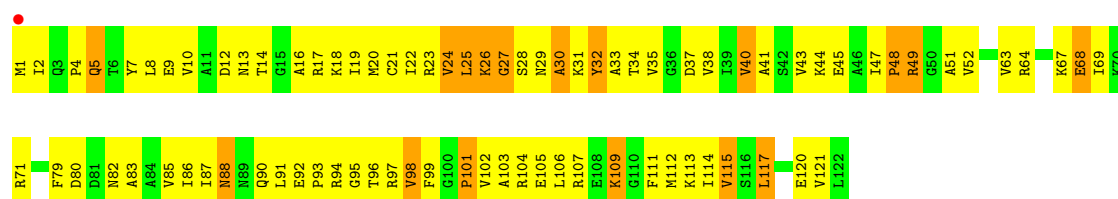


- Molecule 45: 50S RIBOSOMAL PROTEIN L13

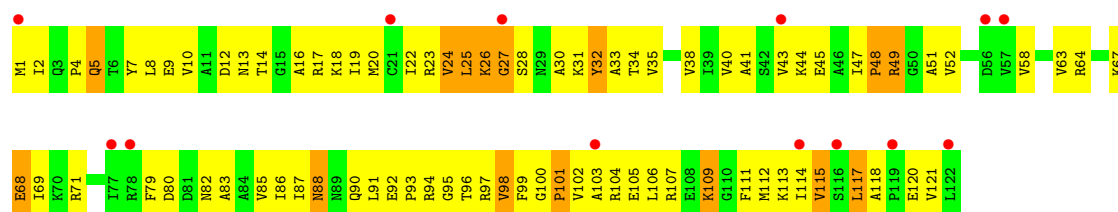




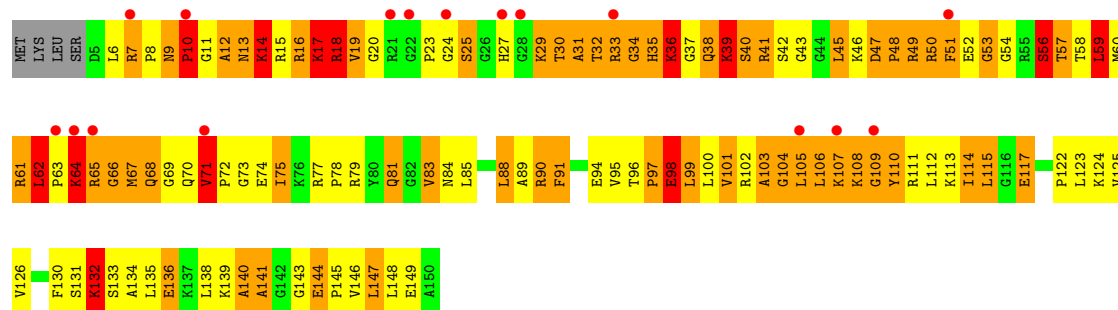
• Molecule 46: 50S RIBOSOMAL PROTEIN L14



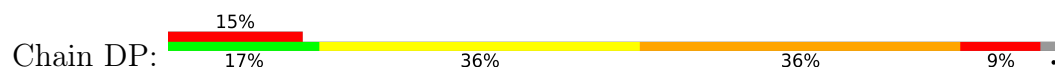
• Molecule 46: 50S RIBOSOMAL PROTEIN L14

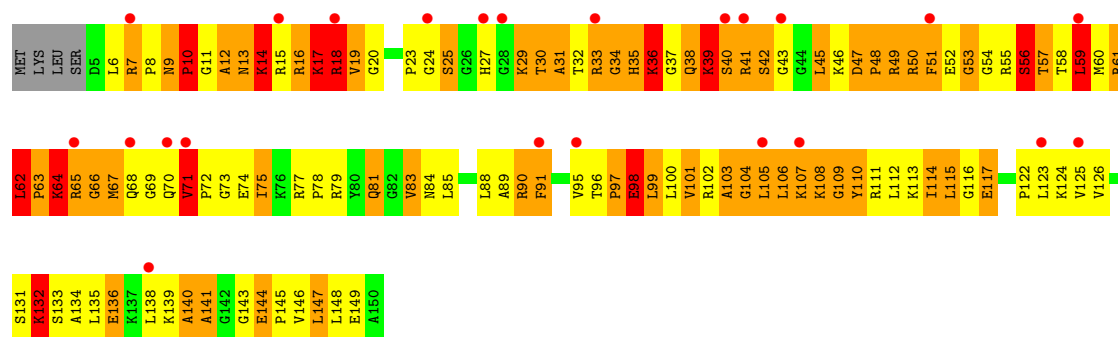


• Molecule 47: 50S RIBOSOMAL PROTEIN L15

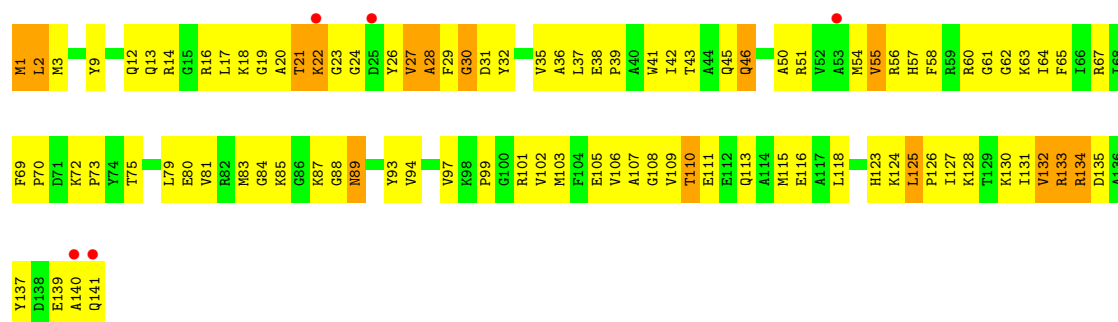


• Molecule 47: 50S RIBOSOMAL PROTEIN L15

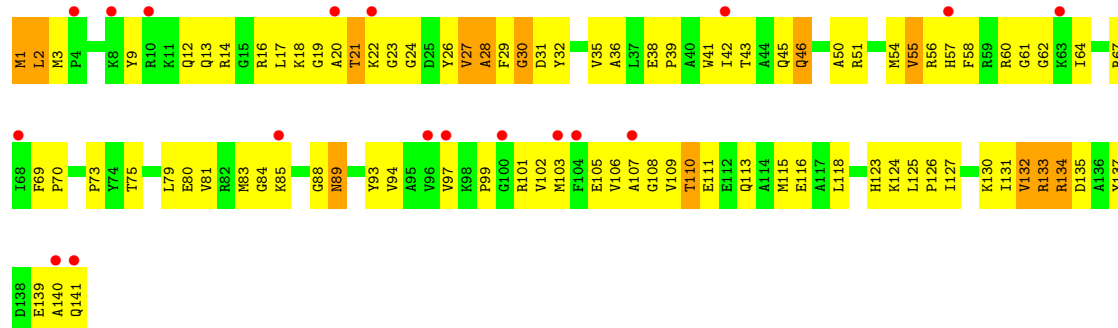




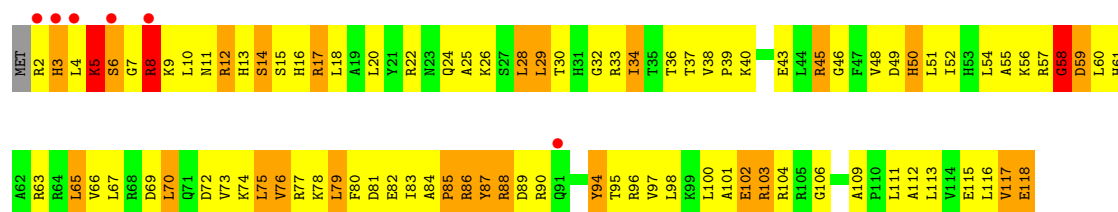
● Molecule 48: 50S RIBOSOMAL PROTEIN L16



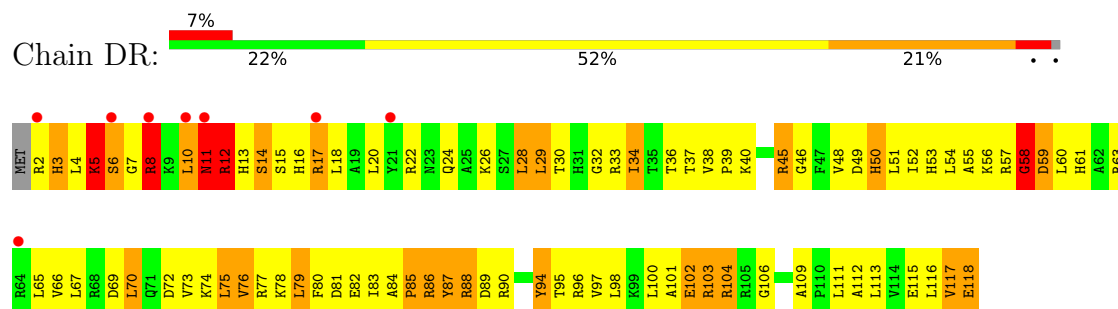
● Molecule 48: 50S RIBOSOMAL PROTEIN L16



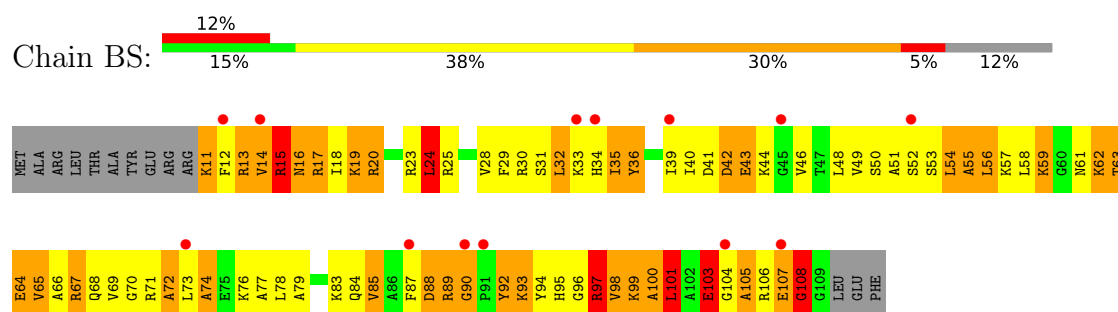
● Molecule 49: 50S RIBOSOMAL PROTEIN L17



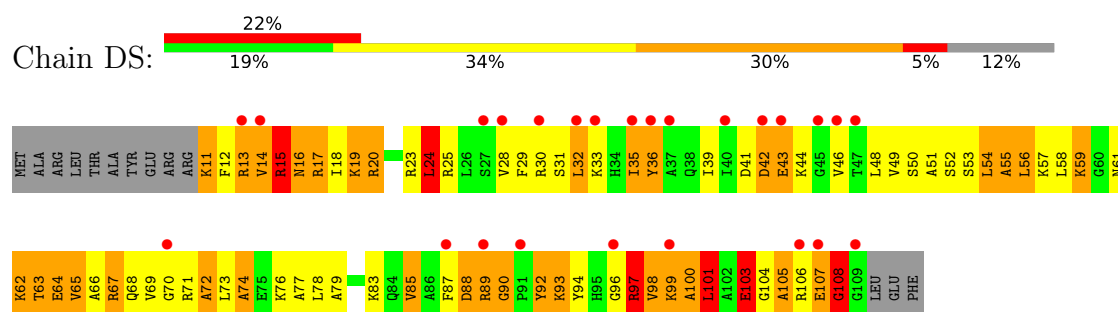
● Molecule 49: 50S RIBOSOMAL PROTEIN L17



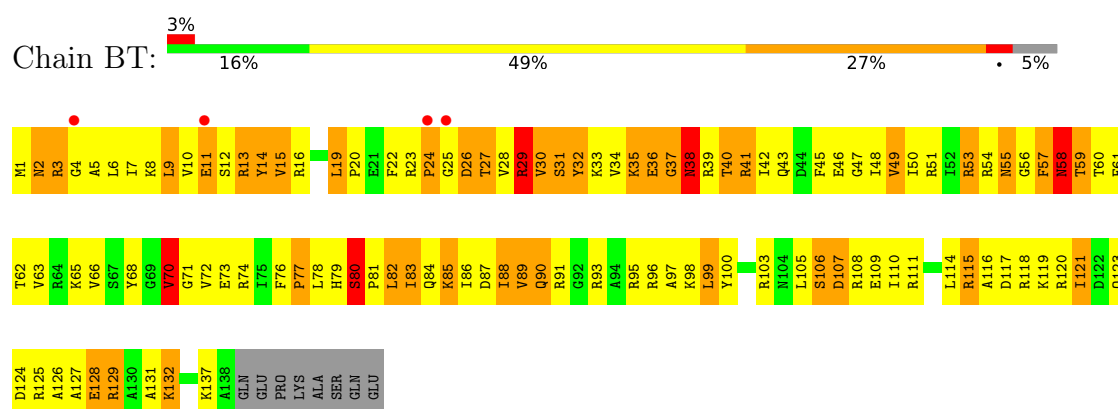
- Molecule 50: 50S RIBOSOMAL PROTEIN L18



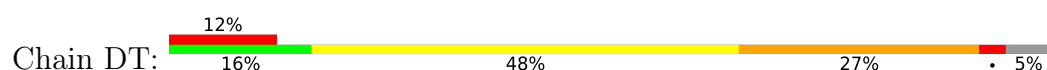
- Molecule 50: 50S RIBOSOMAL PROTEIN L18

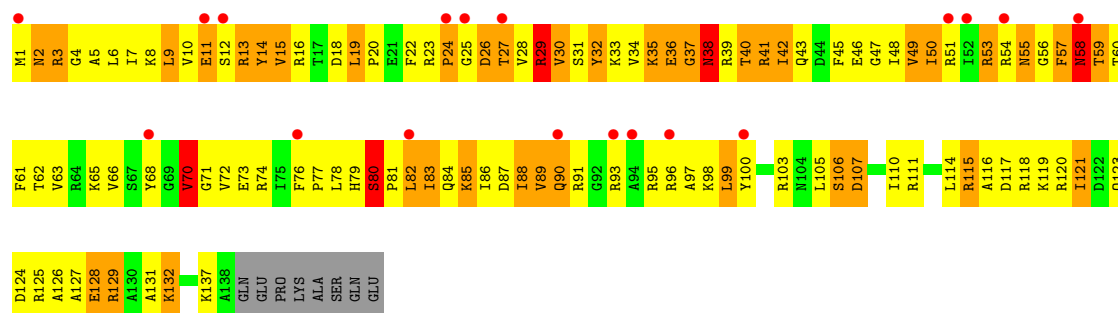


● Molecule 51: 50S RIBOSOMAL PROTEIN L19

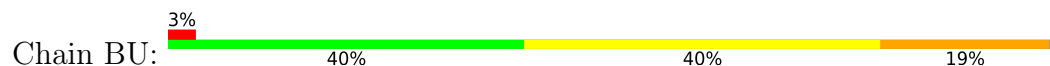


• Molecule 51: 50S RIBOSOMAL PROTEIN L19





• Molecule 52: 50S RIBOSOMAL PROTEIN L20



• Molecule 52: 50S RIBOSOMAL PROTEIN L20

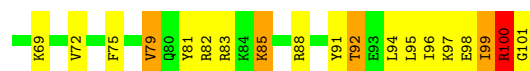


• Molecule 53: 50S RIBOSOMAL PROTEIN L21

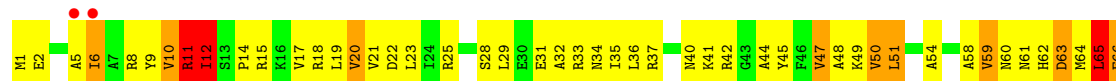


• Molecule 53: 50S RIBOSOMAL PROTEIN L21

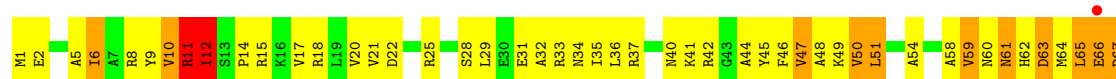




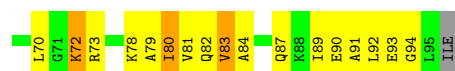
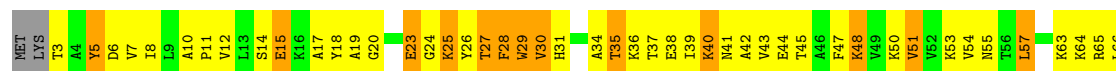
• Molecule 54: 50S RIBOSOMAL PROTEIN L22



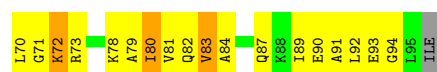
• Molecule 54: 50S RIBOSOMAL PROTEIN L22



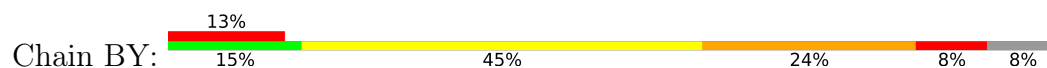
• Molecule 55: 50S RIBOSOMAL PROTEIN L23

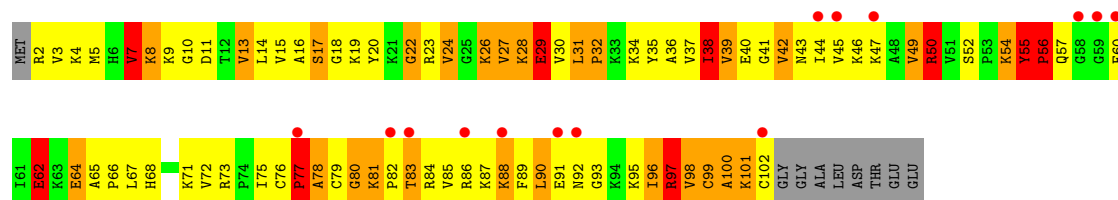


• Molecule 55: 50S RIBOSOMAL PROTEIN L23

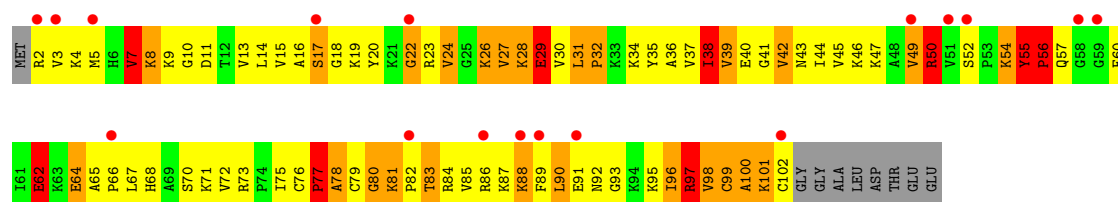
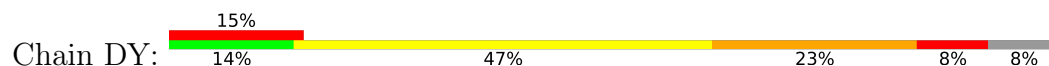


• Molecule 56: 50S RIBOSOMAL PROTEIN L24

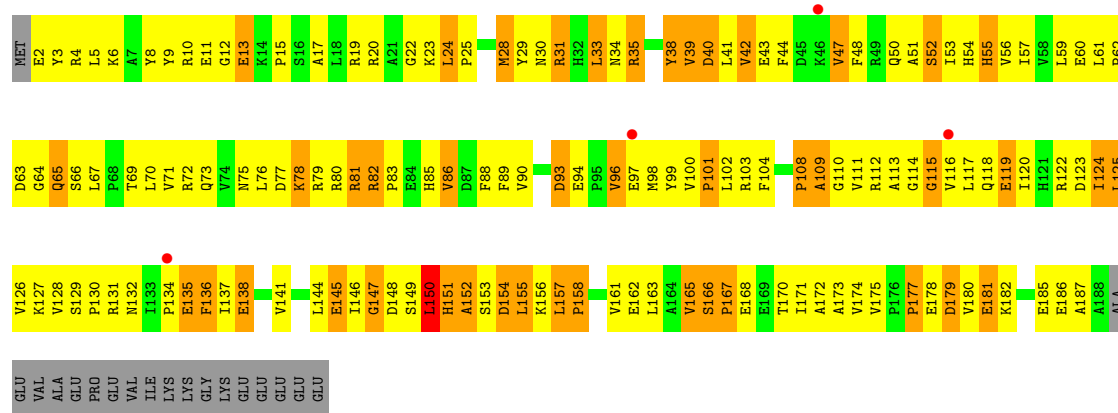
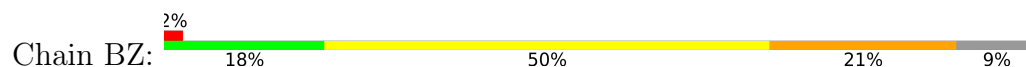




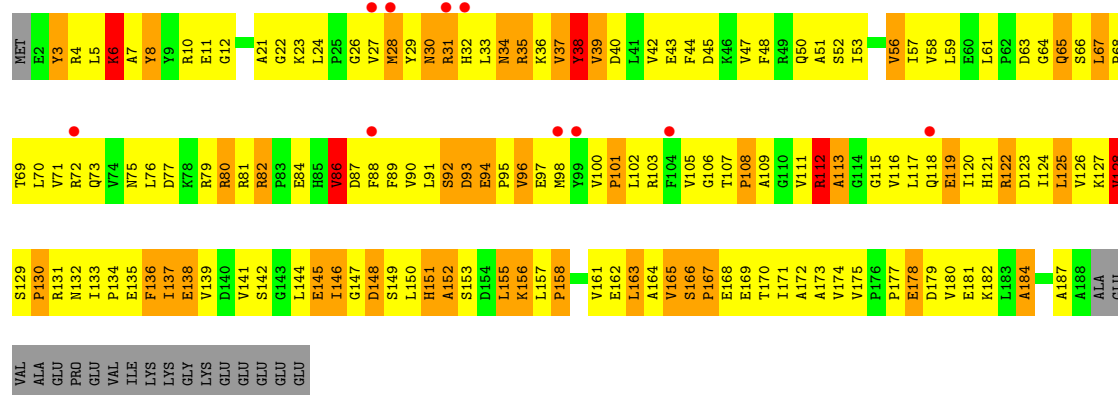
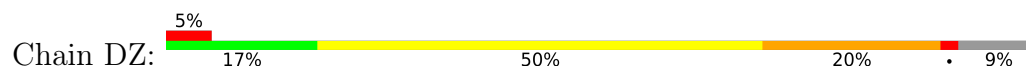
• Molecule 56: 50S RIBOSOMAL PROTEIN L24



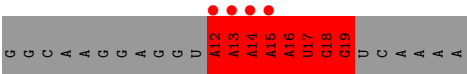
• Molecule 57: 50S RIBOSOMAL PROTEIN L25



• Molecule 57: 50S RIBOSOMAL PROTEIN L25



● Molecule 58: MRNA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	212.04Å 453.51Å 616.10Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.53 – 3.20 44.53 – 3.20	Depositor EDS
% Data completeness (in resolution range)	99.4 (44.53-3.20) 99.4 (44.53-3.20)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.81 (at 3.19Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.228 , 0.270 0.230 , 0.271	Depositor DCC
R_{free} test set	44837 reflections (4.67%)	wwPDB-VP
Wilson B-factor (Å ²)	87.1	Xtriage
Anisotropy	0.142	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 105.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	296762	wwPDB-VP
Average B, all atoms (Å ²)	113.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.58% 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: MG, ZN, A3P

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	0.41	0/36252	0.60	23/56580 (0.0%)
1	CA	0.41	0/36253	0.61	29/56582 (0.1%)
2	AB	0.38	1/1936 (0.1%)	0.96	13/2611 (0.5%)
2	CB	0.38	1/1936 (0.1%)	0.96	10/2611 (0.4%)
3	AC	0.38	1/1637 (0.1%)	0.88	6/2207 (0.3%)
3	CC	0.38	1/1637 (0.1%)	0.87	6/2207 (0.3%)
4	AD	0.44	1/1722 (0.1%)	1.01	13/2306 (0.6%)
4	CD	0.41	1/1722 (0.1%)	0.97	10/2306 (0.4%)
5	AE	0.44	1/1163 (0.1%)	0.96	3/1566 (0.2%)
5	CE	0.43	1/1163 (0.1%)	0.95	5/1566 (0.3%)
6	AF	0.38	0/856	0.96	1/1154 (0.1%)
6	CF	0.40	0/856	0.96	2/1154 (0.2%)
7	AG	0.34	0/1276	0.93	4/1709 (0.2%)
7	CG	0.34	0/1276	0.92	6/1709 (0.4%)
8	AH	0.38	0/1136	0.94	2/1527 (0.1%)
8	CH	0.36	0/1136	0.94	2/1527 (0.1%)
9	AI	0.34	0/1027	0.90	2/1372 (0.1%)
9	CI	0.34	0/1027	0.90	2/1372 (0.1%)
10	AJ	0.44	1/808 (0.1%)	0.91	1/1087 (0.1%)
10	CJ	0.45	1/808 (0.1%)	0.90	1/1087 (0.1%)
11	AK	0.40	0/900	0.99	6/1213 (0.5%)
11	CK	0.37	0/900	0.94	5/1213 (0.4%)
12	AL	0.49	1/987 (0.1%)	1.15	12/1322 (0.9%)
12	CL	0.45	1/987 (0.1%)	1.16	12/1322 (0.9%)
13	AM	0.39	1/941 (0.1%)	1.01	9/1258 (0.7%)
13	CM	0.40	1/941 (0.1%)	0.99	9/1258 (0.7%)
14	AN	0.35	0/501	0.91	1/664 (0.2%)
14	CN	0.36	0/501	0.92	1/664 (0.2%)
15	AO	0.42	0/745	0.95	1/992 (0.1%)
15	CO	0.41	0/745	0.95	1/992 (0.1%)
16	AP	0.46	1/717 (0.1%)	0.96	4/965 (0.4%)
16	CP	0.43	1/717 (0.1%)	0.93	5/965 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.44	1/837 (0.1%)	0.93	3/1119 (0.3%)
17	CQ	0.39	1/837 (0.1%)	0.93	3/1119 (0.3%)
18	AR	0.38	0/579	0.98	4/768 (0.5%)
18	CR	0.38	0/579	0.99	4/768 (0.5%)
19	AS	0.42	1/685 (0.1%)	0.79	1/922 (0.1%)
19	CS	0.44	1/685 (0.1%)	0.79	1/922 (0.1%)
20	AT	0.39	0/765	0.98	3/1007 (0.3%)
20	CT	0.33	0/765	0.97	3/1007 (0.3%)
21	AU	0.55	1/213 (0.5%)	0.76	0/279
21	CU	0.56	1/213 (0.5%)	0.77	0/279
22	AV	1.11	20/1832 (1.1%)	1.31	26/2855 (0.9%)
22	AW	0.49	0/1832	0.59	1/2855 (0.0%)
22	CV	0.44	1/1832 (0.1%)	0.67	1/2855 (0.0%)
22	CW	0.47	0/1832	0.58	0/2855
23	AX	1.81	11/383 (2.9%)	3.39	69/595 (11.6%)
24	AY	1.64	12/790 (1.5%)	2.07	47/1055 (4.5%)
24	CY	1.27	1/132 (0.8%)	1.62	2/177 (1.1%)
25	B0	0.45	0/671	0.98	1/892 (0.1%)
25	D0	0.44	0/671	0.97	3/892 (0.3%)
26	B1	0.63	1/741 (0.1%)	1.15	6/986 (0.6%)
26	D1	0.62	1/741 (0.1%)	1.15	5/986 (0.5%)
27	B2	0.45	0/600	1.09	5/793 (0.6%)
27	D2	0.61	0/600	1.06	4/793 (0.5%)
28	B3	0.57	1/473 (0.2%)	1.03	2/636 (0.3%)
28	D3	0.54	1/473 (0.2%)	1.05	3/636 (0.5%)
29	B4	0.52	1/444 (0.2%)	0.95	1/602 (0.2%)
29	D4	0.54	1/444 (0.2%)	0.96	1/602 (0.2%)
30	B5	0.59	0/473	1.09	2/639 (0.3%)
30	D5	0.62	0/473	1.12	3/639 (0.5%)
31	B6	0.53	1/387 (0.3%)	0.90	2/517 (0.4%)
31	D6	0.51	1/387 (0.3%)	0.90	2/517 (0.4%)
32	B7	0.66	1/427 (0.2%)	1.06	3/563 (0.5%)
32	D7	0.76	1/427 (0.2%)	1.06	3/563 (0.5%)
33	B8	0.72	1/516 (0.2%)	1.34	11/681 (1.6%)
33	D8	0.68	1/516 (0.2%)	1.33	10/681 (1.5%)
34	B9	0.38	0/302	1.03	1/397 (0.3%)
34	D9	0.42	0/302	1.03	1/397 (0.3%)
35	BA	0.48	28/67715 (0.0%)	0.73	120/105714 (0.1%)
35	DA	0.48	11/67714 (0.0%)	0.73	102/105710 (0.1%)
36	BB	0.39	0/2853	0.61	0/4451
36	DB	0.39	0/2853	0.61	0/4451
37	BC	0.49	1/1145 (0.1%)	0.97	7/1556 (0.4%)
37	DC	0.49	1/1145 (0.1%)	0.98	7/1556 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	BD	0.62	0/2155	1.20	18/2907 (0.6%)
38	DD	0.65	2/2155 (0.1%)	1.20	15/2907 (0.5%)
39	BE	0.58	1/1597 (0.1%)	1.14	12/2155 (0.6%)
39	DE	0.56	1/1597 (0.1%)	1.16	13/2155 (0.6%)
40	BF	0.60	1/1659 (0.1%)	1.17	15/2246 (0.7%)
40	DF	0.62	1/1659 (0.1%)	1.17	14/2246 (0.6%)
41	BG	0.38	0/1498	0.94	4/2013 (0.2%)
41	DG	0.39	0/1498	0.96	7/2013 (0.3%)
42	BH	0.88	9/1285 (0.7%)	1.20	16/1741 (0.9%)
42	DH	0.89	9/1285 (0.7%)	1.20	16/1741 (0.9%)
43	BI	0.51	1/1140 (0.1%)	1.13	19/1543 (1.2%)
43	DI	0.51	1/1140 (0.1%)	1.14	20/1543 (1.3%)
45	BN	0.55	1/1132 (0.1%)	1.16	12/1527 (0.8%)
45	DN	0.58	1/1132 (0.1%)	1.18	12/1527 (0.8%)
46	BO	0.55	0/943	1.04	6/1269 (0.5%)
46	DO	0.49	0/943	1.03	5/1269 (0.4%)
47	BP	0.72	0/1131	1.47	23/1504 (1.5%)
47	DP	0.67	0/1131	1.46	24/1504 (1.6%)
48	BQ	0.49	0/1143	1.03	7/1527 (0.5%)
48	DQ	0.46	0/1143	1.02	5/1527 (0.3%)
49	BR	0.52	0/974	0.98	4/1302 (0.3%)
49	DR	0.99	6/974 (0.6%)	1.22	14/1302 (1.1%)
50	BS	0.45	1/779 (0.1%)	0.98	4/1038 (0.4%)
50	DS	0.45	1/779 (0.1%)	0.97	4/1038 (0.4%)
51	BT	0.56	2/1156 (0.2%)	1.16	12/1544 (0.8%)
51	DT	0.49	1/1156 (0.1%)	1.13	13/1544 (0.8%)
52	BU	0.53	0/975	1.05	6/1297 (0.5%)
52	DU	0.62	0/975	1.08	6/1297 (0.5%)
53	BV	0.48	0/790	1.05	3/1057 (0.3%)
53	DV	0.56	0/790	1.07	3/1057 (0.3%)
54	BW	0.60	0/907	1.10	6/1216 (0.5%)
54	DW	0.62	0/907	1.11	6/1216 (0.5%)
55	BX	0.60	1/740 (0.1%)	1.07	6/995 (0.6%)
55	DX	0.68	1/740 (0.1%)	1.09	4/995 (0.4%)
56	BY	0.59	1/789 (0.1%)	1.21	9/1053 (0.9%)
56	DY	0.63	1/789 (0.1%)	1.22	8/1053 (0.8%)
57	BZ	0.46	1/1514 (0.1%)	1.03	9/2056 (0.4%)
57	DZ	0.43	1/1514 (0.1%)	0.96	8/2056 (0.4%)
58	CX	2.33	8/195 (4.1%)	3.69	46/303 (15.2%)
All	All	0.49	173/318302 (0.1%)	0.83	1114/475638 (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	10
1	CA	1	9
22	AV	0	1
22	CV	0	1
24	AY	0	1
35	BA	20	57
35	DA	20	70
36	BB	0	1
36	DB	0	2
42	BH	0	1
42	DH	0	1
49	BR	0	1
49	DR	0	2
All	All	42	157

All (173) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AV	53	G	O5'-C5'	-17.43	1.16	1.42
22	AV	53	G	P-O5'	-12.83	1.40	1.59
49	DR	12	ARG	C-O	-12.80	1.14	1.24
22	AV	52	G	O5'-C5'	-11.89	1.24	1.42
42	DH	9	ILE	CA-C	-11.49	1.40	1.52
42	BH	9	ILE	CA-C	-11.42	1.41	1.52
22	AV	52	G	C5-C6	-11.16	1.20	1.42
58	CX	14	A	O5'-C5'	11.02	1.58	1.42
22	AV	53	G	C2-N3	-10.81	1.11	1.32
23	AX	14	A	C3'-O3'	10.13	1.57	1.42
22	AV	52	G	N9-C4	-10.10	1.17	1.38
22	AV	53	G	N3-C4	-9.73	1.16	1.35
42	BH	9	ILE	C-O	-9.42	1.12	1.24
24	AY	39	LYS	C-O	-9.41	1.12	1.24
42	DH	9	ILE	C-O	-9.40	1.12	1.24
58	CX	16	A	C3'-O3'	-9.38	1.28	1.42
35	DA	1911	U	C1'-N1	8.92	1.61	1.48
42	DH	13	LYS	CA-C	-8.84	1.42	1.52
42	BH	13	LYS	CA-C	-8.84	1.42	1.52
35	DA	1543	C	C1'-N1	-8.78	1.35	1.48
23	AX	11	U	O5'-C5'	8.46	1.55	1.42
35	BA	656	G	O5'-C5'	8.46	1.55	1.42
22	AV	52	G	C1'-N9	-8.23	1.35	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	DR	11	ASN	CA-C	8.15	1.63	1.52
35	BA	774	A	O3'-P	-8.13	1.49	1.61
42	BH	9	ILE	CA-CB	-7.98	1.43	1.54
22	AV	52	G	C2'-C1'	-7.97	1.41	1.53
42	DH	9	ILE	CA-CB	-7.93	1.44	1.54
35	BA	777	A	P-O5'	-7.89	1.48	1.59
35	BA	775	G	P-O5'	-7.87	1.48	1.59
35	BA	777	A	O3'-P	-7.85	1.49	1.61
35	BA	777	A	O5'-C5'	-7.78	1.30	1.42
24	AY	12	ALA	CA-C	-7.76	1.44	1.53
22	AV	53	G	C3'-C2'	-7.75	1.41	1.52
22	AV	52	G	N7-C5	-7.64	1.24	1.39
35	DA	1493	C	P-O5'	-7.63	1.48	1.59
35	BA	776	G	C1'-N9	-7.59	1.35	1.47
35	BA	777	A	C3'-O3'	-7.53	1.30	1.42
35	BA	652	C	O5'-C5'	7.28	1.53	1.42
23	AX	15	A	O5'-C5'	-7.28	1.31	1.42
23	AX	16	A	C3'-O3'	-7.24	1.31	1.42
22	AV	53	G	C4'-O4'	-7.23	1.34	1.45
35	BA	777	A	C2'-O2'	-7.17	1.31	1.42
35	DA	1493	C	O3'-P	-6.99	1.50	1.61
42	DH	65	HIS	N-CA	-6.94	1.38	1.46
22	AV	53	G	N9-C4	-6.91	1.24	1.38
42	BH	65	HIS	N-CA	-6.91	1.38	1.46
35	BA	776	G	P-O5'	-6.90	1.49	1.59
35	BA	775	G	P-OP1	-6.90	1.35	1.49
24	AY	32	PRO	CA-C	-6.86	1.44	1.52
22	AV	53	G	C6-N1	-6.85	1.25	1.39
35	BA	775	G	O3'-P	-6.75	1.51	1.61
24	AY	45	GLY	CA-C	-6.73	1.42	1.51
35	DA	1492	G	O3'-P	-6.67	1.51	1.61
35	BA	776	G	P-OP2	-6.62	1.35	1.49
22	AV	52	G	C6-O6	-6.61	1.10	1.24
24	AY	71	HIS	CA-C	-6.56	1.44	1.52
58	CX	13	A	C1'-N9	-6.48	1.38	1.48
35	BA	775	G	O4'-C1'	-6.46	1.32	1.42
22	AV	52	G	P-O5'	-6.44	1.50	1.59
35	DA	2319	G	C2'-C1'	-6.44	1.43	1.53
35	DA	1493	C	P-OP2	-6.32	1.36	1.49
22	AV	53	G	O4'-C1'	-6.24	1.32	1.41
35	DA	1493	C	O5'-C5'	-6.23	1.33	1.42
35	BA	652	C	C3'-O3'	6.21	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	CX	16	A	C4'-C3'	-6.18	1.43	1.52
22	AV	53	G	C5-C4	-6.14	1.26	1.38
35	BA	775	G	C4'-O4'	-6.12	1.36	1.45
49	DR	8	ARG	CA-C	6.05	1.60	1.52
58	CX	16	A	C2'-O2'	-6.04	1.33	1.42
22	CV	53	G	C1'-N9	-6.04	1.38	1.48
35	DA	2320	A	C2'-C1'	-6.02	1.44	1.53
24	AY	92	ILE	CA-CB	-5.99	1.47	1.54
24	AY	39	LYS	C-N	-5.95	1.26	1.33
35	BA	776	G	O3'-P	-5.93	1.52	1.61
56	DY	101	LYS	C-N	-5.92	1.25	1.33
35	BA	777	A	P-OP1	-5.91	1.37	1.49
56	BY	101	LYS	C-N	-5.89	1.25	1.33
43	DI	144	VAL	C-N	-5.86	1.25	1.33
35	DA	1493	C	P-OP1	-5.83	1.37	1.49
43	BI	144	VAL	C-N	-5.82	1.25	1.33
13	CM	118	ALA	C-N	-5.82	1.25	1.33
37	DC	223	ARG	C-N	-5.81	1.25	1.33
50	DS	108	GLY	C-N	-5.81	1.25	1.33
50	BS	108	GLY	C-N	-5.81	1.25	1.33
4	CD	208	SER	C-N	-5.80	1.25	1.33
38	DD	64	ILE	CA-CB	5.79	1.60	1.53
35	BA	775	G	P-OP2	-5.79	1.37	1.49
3	AC	207	VAL	C-N	-5.78	1.25	1.33
28	B3	59	VAL	C-N	-5.77	1.25	1.33
24	AY	31	THR	CA-CB	5.76	1.61	1.52
57	DZ	187	ALA	C-N	-5.75	1.25	1.33
2	AB	240	GLN	C-N	-5.75	1.25	1.33
17	AQ	100	LYS	C-N	-5.75	1.25	1.33
37	BC	223	ARG	C-N	-5.74	1.25	1.33
40	DF	207	GLY	C-N	-5.74	1.25	1.33
22	AV	53	G	P-OP1	-5.73	1.37	1.49
12	CL	125	ALA	C-N	-5.73	1.25	1.33
16	AP	83	GLU	C-N	-5.72	1.25	1.33
5	AE	154	GLY	C-N	-5.71	1.25	1.33
13	AM	118	ALA	C-N	-5.70	1.25	1.33
57	BZ	187	ALA	C-N	-5.70	1.25	1.33
2	CB	240	GLN	C-N	-5.70	1.25	1.33
21	AU	25	LYS	C-N	-5.69	1.25	1.33
21	CU	25	LYS	C-N	-5.69	1.25	1.33
19	AS	87	ALA	C-N	-5.69	1.25	1.33
19	CS	87	ALA	C-N	-5.68	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	D7	48	LYS	C-N	-5.68	1.25	1.33
24	CY	14	LYS	C-N	-5.67	1.25	1.33
32	B7	48	LYS	C-N	-5.67	1.25	1.33
42	DH	10	PRO	CA-C	-5.66	1.44	1.52
10	AJ	100	THR	C-N	-5.66	1.25	1.33
12	AL	125	ALA	C-N	-5.66	1.25	1.33
23	AX	23	A	C3'-O3'	5.66	1.50	1.42
42	BH	10	PRO	CA-C	-5.65	1.44	1.52
51	BT	137	LYS	C-N	-5.65	1.25	1.33
33	B8	64	TYR	C-N	-5.65	1.25	1.33
5	CE	154	GLY	C-N	-5.64	1.25	1.33
28	D3	59	VAL	C-N	-5.64	1.25	1.33
39	BE	204	ALA	C-N	-5.64	1.25	1.33
40	BF	207	GLY	C-N	-5.63	1.25	1.33
3	CC	207	VAL	C-N	-5.63	1.25	1.33
35	BA	776	G	C2'-C1'	-5.63	1.44	1.53
35	BA	777	A	C1'-N9	-5.63	1.39	1.48
10	CJ	100	THR	C-N	-5.63	1.25	1.33
42	BH	65	HIS	CA-C	-5.63	1.47	1.53
16	CP	83	GLU	C-N	-5.62	1.25	1.33
24	AY	13	PRO	CA-C	-5.62	1.44	1.52
51	DT	137	LYS	C-N	-5.61	1.25	1.33
35	BA	776	G	P-OP1	-5.59	1.37	1.49
55	DX	94	GLY	C-N	-5.59	1.25	1.33
33	D8	64	TYR	C-N	-5.58	1.25	1.33
31	D6	52	VAL	C-N	-5.56	1.25	1.33
17	CQ	100	LYS	C-N	-5.54	1.25	1.33
29	D4	57	GLU	C-N	-5.54	1.25	1.33
42	DH	65	HIS	CA-C	-5.54	1.47	1.53
45	BN	138	LEU	C-N	-5.53	1.25	1.33
4	AD	208	SER	C-N	-5.52	1.25	1.33
39	DE	204	ALA	C-N	-5.52	1.25	1.33
31	B6	52	VAL	C-N	-5.50	1.25	1.33
29	B4	57	GLU	C-N	-5.48	1.25	1.33
45	DN	138	LEU	C-N	-5.47	1.25	1.33
55	BX	94	GLY	C-N	-5.46	1.25	1.33
42	BH	170	ARG	C-N	-5.46	1.25	1.33
49	DR	12	ARG	CG-CD	-5.45	1.36	1.52
42	DH	170	ARG	C-N	-5.44	1.25	1.33
42	BH	65	HIS	CA-CB	-5.41	1.46	1.52
42	DH	65	HIS	CA-CB	-5.40	1.46	1.52
35	BA	776	G	O4'-C1'	-5.40	1.33	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BA	776	G	O5'-C5'	-5.39	1.34	1.42
24	AY	39	LYS	CG-CD	-5.39	1.36	1.52
35	BA	777	A	C2'-C1'	-5.39	1.45	1.53
26	D1	95	LEU	C-N	-5.37	1.25	1.33
35	DA	2319	G	C1'-N9	-5.34	1.39	1.47
35	BA	775	G	O5'-C5'	-5.34	1.34	1.42
49	DR	12	ARG	CB-CG	-5.27	1.36	1.52
26	B1	95	LEU	C-N	-5.26	1.25	1.33
49	DR	5	LYS	CD-CE	5.25	1.68	1.52
23	AX	19	U	P-O5'	-5.24	1.51	1.59
23	AX	16	A	P-OP2	-5.24	1.38	1.49
22	AV	52	G	O4'-C1'	-5.24	1.33	1.41
23	AX	22	A	C1'-N9	-5.23	1.40	1.48
35	BA	777	A	P-OP2	-5.23	1.38	1.49
58	CX	16	A	C2'-C1'	-5.21	1.45	1.53
38	DD	272	ALA	C-N	-5.19	1.26	1.33
58	CX	17	U	O4'-C1'	-5.19	1.33	1.41
51	BT	31	SER	CA-C	-5.18	1.50	1.53
24	AY	12	ALA	CA-CB	-5.10	1.44	1.53
58	CX	16	A	C4'-O4'	-5.10	1.38	1.45
24	AY	13	PRO	C-O	-5.08	1.17	1.24
23	AX	16	A	C4'-O4'	-5.06	1.38	1.45
23	AX	16	A	P-OP1	-5.05	1.38	1.49
23	AX	23	A	C4'-C3'	5.04	1.60	1.52

All (1114) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	51	C	O3'-P-O5'	-28.00	61.99	104.00
22	AV	53	G	C5'-C4'-O4'	-21.37	77.74	109.80
35	DA	2319	G	C1'-C2'-O2'	-21.00	80.30	111.80
23	AX	11	U	O4'-C4'-C3'	-20.67	83.33	104.00
23	AX	19	U	O4'-C4'-C3'	-16.99	89.11	106.10
22	AV	52	G	O3'-P-O5'	-16.50	79.26	104.00
35	BA	1992	G	C2'-C3'-O3'	16.11	133.67	109.50
22	AV	52	G	C1'-C2'-O2'	-15.93	84.50	108.40
35	DA	1992	G	C2'-C3'-O3'	15.38	132.57	109.50
35	DA	1820	U	C2'-C3'-O3'	14.83	131.74	109.50
58	CX	16	A	O4'-C4'-C3'	-14.79	89.21	104.00
35	BA	776	G	C1'-C2'-O2'	-14.79	89.61	111.80
35	BA	587	C	C2'-C3'-O3'	14.71	131.57	109.50
35	BA	1820	U	C2'-C3'-O3'	14.70	131.54	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AX	15	A	C5'-C4'-O4'	-14.66	87.81	109.80
1	AA	575	G	C2'-C3'-O3'	14.03	130.54	109.50
23	AX	11	U	C5'-C4'-O4'	-13.87	89.00	109.80
24	AY	79	THR	N-CA-C	13.72	125.96	111.14
1	CA	575	G	C2'-C3'-O3'	13.70	130.05	109.50
35	DA	1799	G	C2'-C3'-O3'	13.64	129.97	109.50
35	DA	587	C	C2'-C3'-O3'	13.60	129.90	109.50
35	DA	474	G	C2'-C3'-O3'	13.38	129.57	109.50
35	BA	1799	G	C2'-C3'-O3'	13.31	129.47	109.50
35	DA	1911	U	O4'-C1'-N1	13.12	128.18	108.50
38	DD	240	ALA	N-CA-C	12.75	119.69	108.22
35	BA	1819	A	C2'-C3'-O3'	12.74	128.61	109.50
22	AV	53	G	N9-C1'-C2'	12.58	130.87	112.00
23	AX	11	U	C5'-C4'-C3'	12.40	134.60	116.00
35	DA	752	A	C2'-C3'-O3'	12.38	128.08	109.50
38	BD	240	ALA	N-CA-C	12.37	119.36	108.22
33	B8	32	LEU	N-CA-C	-12.31	97.53	112.54
35	BA	474	G	C2'-C3'-O3'	12.30	127.95	109.50
58	CX	18	G	O4'-C4'-C3'	-12.28	91.72	104.00
58	CX	17	U	C1'-C2'-O2'	-12.25	90.03	108.40
35	BA	775	G	O4'-C1'-C2'	-12.24	93.56	105.80
35	BA	752	A	C2'-C3'-O3'	12.22	127.83	109.50
22	AV	51	C	P-O3'-C3'	-12.22	101.87	120.20
58	CX	17	U	P-O3'-C3'	12.21	138.51	120.20
41	BG	54	GLU	N-CA-C	-12.21	98.48	113.50
33	D8	32	LEU	N-CA-C	-12.18	97.68	112.54
23	AX	23	A	C2'-C3'-O3'	-12.12	95.51	113.70
22	AV	53	G	C1'-O4'-C4'	-12.09	97.81	109.90
35	DA	1022	G	C2'-C3'-O3'	11.95	127.43	109.50
23	AX	24	A	O4'-C1'-N9	-11.95	90.28	108.20
35	DA	2320	A	O4'-C4'-C3'	-11.88	94.22	106.10
35	DA	1819	A	C2'-C3'-O3'	11.85	127.27	109.50
35	DA	2320	A	C1'-C2'-O2'	-11.80	94.10	111.80
35	BA	603	A	C2'-C3'-O3'	11.78	127.16	109.50
52	DU	97	ASP	N-CA-C	-11.70	98.42	113.17
35	DA	1653	G	C2'-C3'-O3'	11.68	127.01	109.50
35	DA	49	A	C2'-C3'-O3'	11.61	126.92	109.50
35	BA	49	A	C2'-C3'-O3'	11.55	126.82	109.50
58	CX	12	A	C3'-C2'-C1'	-11.54	89.96	101.50
52	BU	97	ASP	N-CA-C	-11.54	98.63	113.17
58	CX	17	U	C3'-C2'-C1'	11.50	112.80	101.30
23	AX	11	U	C4'-C3'-C2'	-11.47	91.13	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AX	12	A	P-O5'-C5'	11.42	138.04	120.90
35	DA	2320	A	O4'-C1'-C2'	-11.35	94.45	105.80
35	DA	603	A	C2'-C3'-O3'	11.32	126.49	109.50
23	AX	11	U	O4'-C1'-C2'	-11.32	96.28	107.60
58	CX	17	U	C5'-C4'-O4'	-11.32	92.82	109.80
35	BA	1022	G	C2'-C3'-O3'	11.29	126.44	109.50
23	AX	16	A	C1'-C2'-O2'	11.28	125.32	108.40
35	BA	1653	G	C2'-C3'-O3'	11.28	126.42	109.50
35	BA	331	A	C2'-C3'-O3'	11.14	126.20	109.50
20	AT	12	ALA	N-CA-C	-11.11	98.34	112.90
35	DA	331	A	C2'-C3'-O3'	11.11	126.16	109.50
47	BP	51	PHE	N-CA-C	11.07	125.63	109.69
1	AA	1498	U	C2'-C3'-O3'	10.97	125.96	109.50
23	AX	14	A	C2'-C3'-O3'	10.93	130.10	113.70
39	BE	65	GLY	N-CA-C	-10.93	101.00	115.32
54	DW	10	VAL	N-CA-C	10.91	121.82	110.36
35	BA	775	G	O4'-C1'-N9	-10.91	91.84	108.20
23	AX	23	A	C4'-C3'-O3'	10.90	129.35	113.00
20	CT	12	ALA	N-CA-C	-10.88	98.51	112.23
47	DP	51	PHE	N-CA-C	10.87	125.34	109.69
54	BW	10	VAL	N-CA-C	10.87	121.77	110.36
23	AX	16	A	O4'-C1'-N9	-10.82	92.28	108.50
39	DE	65	GLY	N-CA-C	-10.81	101.16	115.32
24	AY	44	THR	N-CA-C	-10.78	95.69	110.35
22	AV	53	G	C1'-C2'-O2'	-10.67	92.39	108.40
48	BQ	27	VAL	N-CA-C	10.61	120.61	110.42
58	CX	17	U	O5'-C5'-C4'	10.60	127.40	111.50
58	CX	13	A	C5'-C4'-O4'	10.46	125.48	109.80
1	CA	401	C	C2'-C3'-O3'	-10.41	98.08	113.70
58	CX	18	G	P-O5'-C5'	10.35	136.43	120.90
35	DA	1819	A	C4'-C3'-O3'	10.35	124.93	109.40
35	BA	387	U	C2'-C3'-O3'	10.30	124.96	109.50
35	BA	1694	C	C2'-C3'-O3'	10.29	129.13	113.70
47	BP	9	ASN	CA-C-N	10.27	132.68	119.84
47	BP	9	ASN	C-N-CA	10.27	132.68	119.84
23	AX	23	A	P-O3'-C3'	10.19	135.49	120.20
22	AV	52	G	C5'-C4'-O4'	-10.19	94.52	109.80
22	AV	52	G	C4'-C3'-O3'	10.18	128.28	113.00
35	BA	474	G	C4'-C3'-O3'	10.14	124.61	109.40
35	DA	387	U	C2'-C3'-O3'	10.10	124.64	109.50
35	BA	775	G	O4'-C4'-C3'	-10.03	96.07	106.10
58	CX	18	G	C5'-C4'-C3'	10.02	131.04	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	775	G	C3'-C2'-O2'	-9.99	99.61	114.60
35	BA	2225	A	C2'-C3'-O3'	9.99	124.48	109.50
35	BA	1819	A	C4'-C3'-O3'	9.95	124.32	109.40
47	BP	52	GLU	N-CA-C	9.94	131.98	110.80
58	CX	16	A	C4'-C3'-O3'	-9.91	98.14	113.00
47	DP	9	ASN	CA-C-N	9.90	132.22	119.84
47	DP	9	ASN	C-N-CA	9.90	132.22	119.84
47	DP	52	GLU	N-CA-C	9.89	131.88	110.80
35	DA	2225	A	C2'-C3'-O3'	9.83	124.24	109.50
55	DX	5	TYR	N-CA-C	-9.79	100.64	112.59
35	BA	752	A	C4'-C3'-O3'	9.77	124.05	109.40
23	AX	19	U	N1-C1'-C2'	9.76	128.65	114.00
11	AK	40	ILE	N-CA-C	-9.73	103.95	112.12
47	BP	53	GLY	N-CA-C	-9.66	90.28	113.18
58	CX	17	U	C5'-C4'-C3'	9.61	130.42	116.00
1	AA	328	C	C2'-C3'-O3'	9.60	123.90	109.50
1	CA	401	C	C5'-C4'-C3'	9.58	130.37	116.00
47	DP	53	GLY	N-CA-C	-9.55	90.54	113.18
23	AX	25	A	O4'-C1'-C2'	-9.54	96.25	105.80
23	AX	25	A	N9-C1'-C2'	9.52	128.28	114.00
35	DA	752	A	C4'-C3'-O3'	9.50	123.65	109.40
45	DN	25	ARG	N-CA-C	-9.49	100.80	112.38
35	DA	1694	C	C2'-C3'-O3'	9.48	127.92	113.70
48	DQ	27	VAL	N-CA-C	9.46	120.27	110.62
12	CL	23	ALA	N-CA-C	-9.46	101.66	113.01
58	CX	17	U	C4'-C3'-C2'	-9.44	93.16	102.60
58	CX	14	A	C2'-C3'-O3'	-9.44	99.55	113.70
35	BA	776	G	O4'-C4'-C3'	-9.42	96.68	106.10
42	BH	9	ILE	CB-CA-C	-9.42	94.22	111.36
45	BN	25	ARG	N-CA-C	-9.39	100.92	112.38
42	DH	9	ILE	CB-CA-C	-9.38	94.28	111.36
53	DV	48	GLY	N-CA-C	-9.28	103.15	114.66
58	CX	16	A	C1'-O4'-C4'	-9.27	100.63	109.90
56	DY	7	VAL	N-CA-C	9.27	128.62	109.34
35	BA	1799	G	C4'-C3'-O3'	9.26	123.29	109.40
53	BV	48	GLY	N-CA-C	-9.26	103.17	114.66
38	BD	243	GLY	N-CA-C	-9.25	101.68	115.00
35	DA	1799	G	C4'-C3'-O3'	9.24	123.27	109.40
23	AX	18	G	O3'-P-O5'	9.18	117.77	104.00
23	AX	20	U	O4'-C1'-C2'	-9.18	96.62	105.80
35	DA	474	G	C4'-C3'-O3'	9.14	123.10	109.40
58	CX	16	A	C1'-C2'-O2'	-9.11	94.74	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	776	G	O3'-P-O5'	-9.10	90.35	104.00
38	DD	243	GLY	N-CA-C	-9.10	101.90	115.00
56	BY	7	VAL	N-CA-C	9.06	128.19	109.34
47	BP	46	LYS	N-CA-C	9.05	120.84	110.97
1	CA	401	C	C3'-C2'-C1'	-9.04	92.25	101.30
23	AX	11	U	C4'-C3'-O3'	9.03	126.55	113.00
35	DA	1911	U	C2'-C3'-O3'	-9.02	100.17	113.70
12	AL	23	ALA	N-CA-C	-9.01	101.55	112.54
55	BX	5	TYR	N-CA-C	-9.01	101.60	112.59
17	AQ	67	LYS	N-CA-C	-9.00	97.54	110.59
58	CX	17	U	C2'-C3'-O3'	-8.97	100.24	113.70
41	BG	30	GLU	N-CA-C	-8.94	103.48	114.75
58	CX	16	A	C4'-C3'-C2'	-8.94	93.66	102.60
22	AV	53	G	P-O5'-C5'	-8.92	107.52	120.90
35	BA	669	G	N9-C1'-C2'	8.91	127.37	114.00
24	AY	16	GLU	N-CA-C	-8.91	102.32	113.01
1	CA	328	C	C2'-C3'-O3'	8.91	122.87	109.50
35	DA	2319	G	C3'-C2'-C1'	-8.89	92.61	101.50
17	CQ	67	LYS	N-CA-C	-8.88	97.72	110.59
22	AV	53	G	C3'-C2'-C1'	-8.83	92.47	101.30
40	BF	65	TRP	CA-C-N	8.81	130.85	119.84
40	BF	65	TRP	C-N-CA	8.81	130.85	119.84
47	DP	46	LYS	N-CA-C	8.80	120.56	110.97
4	AD	50	ARG	NE-CZ-NH2	8.80	127.12	119.20
35	DA	1543	C	O3'-P-O5'	-8.79	90.82	104.00
1	AA	533	A	C2'-C3'-O3'	8.77	122.65	109.50
43	BI	113	ARG	NE-CZ-NH2	8.73	127.06	119.20
35	DA	587	C	C4'-C3'-O3'	8.72	122.48	109.40
3	AC	76	VAL	N-CA-C	-8.71	103.94	113.43
51	BT	89	VAL	N-CA-C	8.71	115.53	106.21
40	DF	65	TRP	CA-C-N	8.70	130.71	119.84
40	DF	65	TRP	C-N-CA	8.70	130.71	119.84
35	DA	669	G	N9-C1'-C2'	8.70	127.04	114.00
13	AM	92	HIS	N-CA-C	-8.69	100.58	113.61
1	AA	1067	A	C2'-C3'-O3'	8.68	122.53	109.50
4	AD	47	ARG	NE-CZ-NH2	8.66	127.00	119.20
3	CC	76	VAL	N-CA-C	-8.64	104.01	113.43
58	CX	18	G	C1'-O4'-C4'	-8.60	101.30	109.90
24	AY	47	LYS	N-CA-C	-8.56	92.56	110.80
23	AX	19	U	O4'-C1'-N1	-8.55	95.37	108.20
58	CX	13	A	C2'-C3'-O3'	8.52	126.48	113.70
51	DT	70	VAL	N-CA-C	8.52	119.34	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	12	ALA	N-CA-C	-8.52	99.02	109.83
13	CM	92	HIS	N-CA-C	-8.50	100.86	113.61
12	CL	38	ARG	NE-CZ-NH2	8.48	126.83	119.20
58	CX	13	A	C3'-C2'-O2'	8.47	123.41	110.70
51	DT	89	VAL	N-CA-C	8.46	115.26	106.21
1	CA	575	G	C4'-C3'-O3'	8.45	122.07	109.40
35	BA	1962	C	N1-C1'-C2'	8.43	126.65	114.00
35	BA	49	A	C4'-C3'-O3'	8.43	122.04	109.40
38	BD	41	GLY	N-CA-C	-8.41	101.29	112.14
27	B2	41	ILE	N-CA-C	-8.35	104.56	112.83
24	AY	34	GLN	N-CA-C	-8.30	92.81	108.17
4	AD	50	ARG	NE-CZ-NH1	-8.29	113.21	121.50
4	AD	47	ARG	NE-CZ-NH1	-8.29	113.21	121.50
41	DG	54	GLU	N-CA-C	-8.27	101.65	112.41
22	AV	53	G	C4'-C3'-C2'	-8.25	94.35	102.60
23	AX	11	U	C1'-O4'-C4'	-8.25	101.65	109.90
40	BF	199	TRP	N-CA-C	-8.24	102.32	112.38
47	BP	62	LEU	CA-C-N	8.23	130.13	119.84
47	BP	62	LEU	C-N-CA	8.23	130.13	119.84
42	BH	133	VAL	N-CA-C	8.23	120.72	108.46
42	DH	133	VAL	N-CA-C	8.23	120.72	108.46
35	DA	2796	U	N1-C1'-C2'	8.21	124.31	112.00
58	CX	14	A	P-O5'-C5'	8.15	133.12	120.90
43	BI	65	ALA	N-CA-C	-8.14	103.33	113.18
35	DA	1962	C	N1-C1'-C2'	8.14	126.21	114.00
35	DA	2320	A	O3'-P-O5'	-8.14	91.79	104.00
43	BI	113	ARG	NE-CZ-NH1	-8.14	113.36	121.50
23	AX	11	U	P-O5'-C5'	8.13	133.09	120.90
40	DF	199	TRP	N-CA-C	-8.12	102.47	112.38
22	AV	52	G	OP1-P-O3'	8.12	132.34	108.00
47	DP	62	LEU	CA-C-N	8.11	129.98	119.84
47	DP	62	LEU	C-N-CA	8.11	129.98	119.84
51	BT	19	LEU	CA-C-N	8.10	130.20	120.23
51	BT	19	LEU	C-N-CA	8.10	130.20	120.23
1	CA	401	C	C5'-C4'-O4'	-8.10	97.65	109.80
1	CA	400	C	O3'-P-O5'	-8.09	91.86	104.00
24	AY	71	HIS	N-CA-C	-8.08	98.51	110.23
35	BA	2796	U	N1-C1'-C2'	8.07	124.10	112.00
35	BA	775	G	O3'-P-O5'	8.05	116.08	104.00
1	CA	533	A	C2'-C3'-O3'	8.05	121.58	109.50
51	BT	70	VAL	N-CA-C	8.05	118.83	110.05
1	CA	1067	A	C2'-C3'-O3'	8.05	121.57	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1484	G	C2'-C3'-O3'	8.04	125.76	113.70
52	BU	98	LEU	N-CA-C	-8.03	102.61	111.36
45	DN	43	THR	CA-C-N	7.97	128.72	119.47
45	DN	43	THR	C-N-CA	7.97	128.72	119.47
35	DA	49	A	C4'-C3'-O3'	7.96	121.35	109.40
52	DU	98	LEU	N-CA-C	-7.96	102.68	111.36
24	AY	39	LYS	N-CA-C	7.96	121.57	107.80
38	BD	100	GLY	N-CA-C	-7.94	104.07	115.27
43	DI	52	ARG	NE-CZ-NH2	7.94	126.35	119.20
23	AX	22	A	O4'-C1'-N9	-7.93	96.60	108.50
35	BA	272	G	C2'-C3'-O3'	7.93	121.40	109.50
58	CX	13	A	O4'-C4'-C3'	-7.92	96.08	104.00
13	AM	93	ARG	N-CA-C	-7.90	103.60	113.55
1	AA	484	G	C2'-C3'-O3'	7.88	121.33	109.50
16	CP	77	ALA	N-CA-C	-7.88	103.81	113.19
3	AC	139	GLN	N-CA-C	-7.88	103.67	113.20
38	DD	41	GLY	N-CA-C	-7.88	101.98	112.14
43	DI	65	ALA	N-CA-C	-7.87	103.66	113.18
24	AY	89	LYS	N-CA-C	7.86	122.58	112.92
42	BH	10	PRO	CA-C-N	7.85	130.26	123.04
42	BH	10	PRO	C-N-CA	7.85	130.26	123.04
35	BA	2422	A	C2'-C3'-O3'	7.85	121.27	109.50
35	BA	1484	G	C2'-C3'-O3'	7.84	125.47	113.70
35	BA	777	A	C4'-C3'-C2'	-7.82	94.78	102.60
42	DH	10	PRO	CA-C-N	7.82	130.23	123.04
42	DH	10	PRO	C-N-CA	7.82	130.23	123.04
23	AX	25	A	C3'-C2'-C1'	-7.80	93.70	101.50
42	DH	65	HIS	N-CA-C	-7.80	98.61	110.70
42	BH	65	HIS	N-CA-C	-7.79	98.62	110.70
13	CM	93	ARG	N-CA-C	-7.79	103.74	113.55
12	CL	38	ARG	NE-CZ-NH1	-7.78	113.72	121.50
38	BD	212	SER	N-CA-C	-7.77	102.89	111.36
1	AA	575	G	C4'-C3'-O3'	7.77	121.05	109.40
35	BA	587	C	C4'-C3'-O3'	7.76	121.04	109.40
24	AY	23	ASP	CA-C-N	-7.75	109.89	120.82
24	AY	23	ASP	C-N-CA	-7.75	109.89	120.82
23	AX	14	A	C3'-C2'-O2'	7.75	122.32	110.70
38	DD	100	GLY	N-CA-C	-7.74	104.35	115.27
16	AP	77	ALA	N-CA-C	-7.74	103.98	113.19
23	AX	22	A	C3'-C2'-O2'	7.74	122.31	110.70
35	BA	1694	C	N1-C1'-C2'	7.73	123.60	112.00
35	DA	1300	U	N1-C1'-C2'	7.72	123.58	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	DI	61	ARG	NE-CZ-NH2	7.70	126.13	119.20
24	AY	90	ARG	N-CA-C	7.69	121.15	109.23
1	AA	115	G	C2'-C3'-O3'	7.66	120.99	109.50
23	AX	25	A	O5'-C5'-C4'	-7.66	100.21	111.70
35	DA	1992	G	C4'-C3'-O3'	7.65	120.88	109.40
35	DA	1786	A	N9-C1'-C2'	7.65	125.47	114.00
28	D3	11	SER	CA-C-N	7.65	127.28	119.56
28	D3	11	SER	C-N-CA	7.65	127.28	119.56
23	AX	13	A	O4'-C1'-C2'	-7.64	99.96	107.60
27	D2	5	GLU	N-CA-C	-7.63	104.07	113.15
26	B1	4	VAL	N-CA-C	7.62	119.09	108.12
58	CX	15	A	C2'-C3'-O3'	-7.61	102.29	113.70
47	DP	54	GLY	N-CA-C	-7.60	104.55	115.64
30	D5	4	HIS	CA-C-N	-7.59	111.94	119.76
30	D5	4	HIS	C-N-CA	-7.59	111.94	119.76
35	DA	1694	C	N1-C1'-C2'	7.59	123.38	112.00
7	AG	87	VAL	N-CA-C	7.58	116.07	109.02
24	AY	16	GLU	CA-C-N	7.58	130.44	120.28
24	AY	16	GLU	C-N-CA	7.58	130.44	120.28
3	CC	139	GLN	N-CA-C	-7.56	104.05	113.20
7	CG	87	VAL	N-CA-C	7.55	116.05	109.02
27	D2	7	ARG	N-CA-C	-7.55	103.33	112.54
35	DA	2422	A	C2'-C3'-O3'	7.54	120.80	109.50
35	BA	827	U	C2'-C3'-O3'	-7.53	102.40	113.70
39	BE	116	VAL	N-CA-C	-7.53	98.79	109.63
45	BN	43	THR	CA-C-N	7.53	128.20	119.47
45	BN	43	THR	C-N-CA	7.53	128.20	119.47
58	CX	18	G	C5'-C4'-O4'	-7.52	98.52	109.80
3	AC	138	VAL	N-CA-C	-7.52	106.57	113.71
35	DA	2320	A	C1'-O4'-C4'	-7.51	102.19	109.70
51	DT	19	LEU	CA-C-N	7.51	129.47	120.23
51	DT	19	LEU	C-N-CA	7.51	129.47	120.23
43	DI	61	ARG	NE-CZ-NH1	-7.50	114.00	121.50
35	BA	775	G	C5'-C4'-O4'	-7.48	97.88	109.10
39	DE	128	SER	N-CA-C	7.47	117.83	108.19
12	AL	115	SER	N-CA-C	-7.46	103.14	111.28
1	CA	484	G	C2'-C3'-O3'	7.46	120.69	109.50
35	BA	1786	A	N9-C1'-C2'	7.46	125.19	114.00
47	BP	54	GLY	N-CA-C	-7.43	104.80	115.64
49	DR	5	LYS	CD-CE-NZ	7.42	135.66	111.90
35	DA	272	G	C2'-C3'-O3'	7.42	120.63	109.50
24	AY	39	LYS	O-C-N	-7.41	113.51	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BD	91	ARG	N-CA-C	-7.39	98.68	110.14
24	AY	30	LYS	N-CA-C	7.37	122.34	113.12
35	DA	1543	C	C3'-C2'-C1'	-7.37	93.93	101.30
35	DA	827	U	C2'-C3'-O3'	-7.36	102.66	113.70
18	CR	51	LEU	CA-C-N	7.35	127.51	120.31
18	CR	51	LEU	C-N-CA	7.35	127.51	120.31
47	DP	73	GLY	N-CA-C	7.34	121.14	111.52
43	DI	52	ARG	NE-CZ-NH1	-7.33	114.17	121.50
58	CX	16	A	C5'-C4'-C3'	-7.33	105.01	116.00
58	CX	17	U	C3'-C2'-O2'	-7.32	99.71	110.70
23	AX	20	U	C4'-C3'-O3'	-7.32	98.42	109.40
38	DD	43	ARG	N-CA-C	7.32	122.23	113.16
56	DY	97	ARG	N-CA-C	-7.32	99.20	110.10
11	AK	56	GLY	N-CA-C	-7.31	105.74	115.32
2	AB	172	ILE	N-CA-C	-7.30	103.35	110.72
37	DC	181	PRO	N-CA-CB	7.30	110.16	103.08
35	BA	777	A	C1'-C2'-O2'	-7.29	97.46	108.40
12	CL	116	LYS	N-CA-C	-7.29	99.68	110.46
23	AX	16	A	C4'-C3'-O3'	7.28	123.92	113.00
58	CX	15	A	C4'-C3'-C2'	7.28	109.88	102.60
35	BA	1300	U	N1-C1'-C2'	7.27	122.91	112.00
35	DA	1558	A	C2'-C3'-O3'	7.27	120.41	109.50
37	BC	181	PRO	N-CA-CB	7.27	110.13	103.08
38	DD	91	ARG	N-CA-C	-7.27	98.88	110.14
35	BA	2286	A	N9-C1'-C2'	7.26	122.89	112.00
57	BZ	181	GLU	N-CA-C	-7.25	101.64	111.87
12	AL	116	LYS	N-CA-C	-7.24	99.75	110.46
11	AK	38	ASN	CA-C-N	7.24	128.88	119.84
11	AK	38	ASN	C-N-CA	7.24	128.88	119.84
39	DE	116	VAL	N-CA-C	-7.23	99.22	109.63
1	AA	428	G	C2'-C3'-O3'	7.21	120.31	109.50
23	AX	16	A	C5'-C4'-O4'	-7.20	99.00	109.80
35	BA	656	G	C2'-C3'-O3'	-7.18	102.93	113.70
23	AX	14	A	O5'-C5'-C4'	-7.18	100.74	111.50
39	BE	128	SER	N-CA-C	7.16	117.96	108.07
46	BO	25	LEU	N-CA-C	7.16	121.44	113.21
11	CK	38	ASN	CA-C-N	7.15	128.77	119.84
11	CK	38	ASN	C-N-CA	7.15	128.77	119.84
2	CB	172	ILE	N-CA-C	-7.14	103.50	110.72
3	CC	138	VAL	N-CA-C	-7.14	106.93	113.71
9	CI	93	ARG	N-CA-C	-7.12	105.12	113.88
30	B5	4	HIS	CA-C-N	-7.12	112.43	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B5	4	HIS	C-N-CA	-7.12	112.43	119.76
35	DA	1911	U	C3'-C2'-C1'	7.12	108.42	101.30
35	DA	2286	A	N9-C1'-C2'	7.11	122.67	112.00
1	CA	428	G	C2'-C3'-O3'	7.11	120.17	109.50
39	BE	168	MET	N-CA-C	7.11	120.58	110.14
27	D2	15	LYS	N-CA-C	-7.10	101.71	110.65
56	BY	97	ARG	N-CA-C	-7.09	99.53	110.10
23	AX	16	A	C3'-C2'-C1'	7.08	108.38	101.30
38	BD	43	ARG	N-CA-C	7.07	121.93	113.16
4	AD	21	LEU	N-CA-C	-7.07	103.58	111.71
35	BA	1558	A	C2'-C3'-O3'	7.07	120.10	109.50
12	CL	35	THR	N-CA-C	-7.06	105.28	114.04
11	CK	56	GLY	N-CA-C	-7.06	106.08	115.32
24	AY	83	LEU	N-CA-C	7.02	121.53	112.41
1	CA	115	G	C2'-C3'-O3'	7.02	120.02	109.50
23	AX	24	A	P-O5'-C5'	7.01	131.42	120.90
33	D8	60	LEU	N-CA-C	-7.01	99.83	109.71
28	B3	11	SER	CA-C-N	6.99	126.62	119.56
28	B3	11	SER	C-N-CA	6.99	126.62	119.56
39	DE	168	MET	N-CA-C	6.98	120.40	110.14
35	DA	71	A	C2'-C3'-O3'	6.96	119.95	109.50
53	BV	35	LEU	CA-C-N	6.96	128.54	119.84
53	BV	35	LEU	C-N-CA	6.96	128.54	119.84
22	AV	53	G	N3-C2-N2	-6.96	99.03	119.90
51	BT	80	SER	N-CA-C	6.95	125.17	109.81
1	AA	913	A	C2'-C3'-O3'	6.95	119.92	109.50
18	AR	51	LEU	CA-C-N	6.94	127.11	120.31
18	AR	51	LEU	C-N-CA	6.94	127.11	120.31
1	CA	913	A	C2'-C3'-O3'	6.94	119.91	109.50
9	AI	93	ARG	N-CA-C	-6.94	105.35	113.88
50	BS	55	ALA	N-CA-C	-6.93	104.80	113.18
35	BA	1379	A	N9-C1'-C2'	6.92	122.39	112.00
47	BP	99	LEU	N-CA-C	-6.91	103.84	112.90
12	CL	115	SER	N-CA-C	-6.91	103.75	111.28
11	AK	87	THR	N-CA-C	-6.90	101.89	112.99
12	CL	79	VAL	N-CA-C	-6.88	102.44	110.21
4	CD	50	ARG	CD-NE-CZ	6.87	134.02	124.40
4	CD	21	LEU	N-CA-C	-6.86	103.03	111.33
12	AL	79	VAL	N-CA-C	-6.82	102.62	110.05
46	DO	25	LEU	N-CA-C	6.82	121.26	113.15
58	CX	14	A	O5'-C5'-C4'	6.81	121.72	111.50
47	DP	99	LEU	N-CA-C	-6.81	103.97	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	603	A	C4'-C3'-O3'	6.81	119.61	109.40
35	BA	1970	A	C5'-C4'-C3'	6.80	125.41	115.20
24	AY	32	PRO	CA-C-O	-6.79	113.46	121.95
35	BA	100	G	N9-C1'-C2'	6.79	124.19	114.00
35	BA	1992	G	C4'-C3'-O3'	6.78	119.58	109.40
43	DI	129	THR	N-CA-C	6.77	118.80	109.18
22	AV	53	G	O4'-C4'-C3'	6.77	110.77	104.00
37	DC	174	PRO	N-CA-CB	6.77	110.36	103.25
35	DA	100	G	N9-C1'-C2'	6.76	124.15	114.00
24	AY	20	GLY	N-CA-C	6.75	120.83	112.73
1	AA	60	A	C2'-C3'-O3'	6.74	119.61	109.50
24	AY	48	GLY	CA-C-N	6.73	133.56	122.73
24	AY	48	GLY	C-N-CA	6.73	133.56	122.73
35	BA	777	A	C3'-C2'-O2'	-6.72	100.61	110.70
38	DD	212	SER	N-CA-C	-6.72	104.02	111.82
37	BC	174	PRO	N-CA-CB	6.72	110.31	103.25
53	DV	35	LEU	CA-C-N	6.72	128.24	119.84
53	DV	35	LEU	C-N-CA	6.72	128.24	119.84
40	BF	58	ALA	N-CA-C	6.70	120.92	112.87
52	DU	50	ARG	N-CA-C	-6.70	103.79	112.23
4	CD	50	ARG	NE-CZ-NH2	-6.69	113.17	119.20
35	BA	603	A	C4'-C3'-O3'	6.69	119.43	109.40
35	DA	1379	A	N9-C1'-C2'	6.68	122.02	112.00
13	AM	82	MET	N-CA-C	-6.68	105.53	113.21
51	DT	80	SER	N-CA-C	6.67	124.56	109.81
49	DR	11	ASN	CA-C-N	6.66	135.01	121.95
49	DR	11	ASN	C-N-CA	6.66	135.01	121.95
1	CA	1281	U	C2'-C3'-O3'	6.66	119.49	109.50
35	BA	363(F)	A	C2'-C3'-O3'	-6.66	103.72	113.70
35	BA	1490	A	C1'-O4'-C4'	-6.65	103.25	109.90
23	AX	25	A	C2'-C3'-O3'	6.64	119.47	109.50
18	AR	56	THR	N-CA-C	-6.64	105.19	113.55
38	BD	200	ASP	N-CA-C	-6.64	105.58	113.21
13	CM	20	THR	N-CA-C	-6.64	104.08	111.71
58	CX	18	G	O4'-C1'-N9	-6.64	98.55	108.50
18	CR	51	LEU	N-CA-C	6.63	119.05	109.84
50	DS	55	ALA	N-CA-C	-6.63	105.16	113.18
35	BA	777	A	C3'-C2'-C1'	6.62	107.92	101.30
58	CX	17	U	O4'-C1'-C2'	-6.62	100.98	107.60
47	DP	59	LEU	N-CA-C	-6.61	104.79	112.92
26	B1	72	GLU	N-CA-C	-6.61	104.48	112.54
23	AX	13	A	O4'-C4'-C3'	-6.61	97.39	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AX	22	A	O5'-C5'-C4'	-6.59	101.61	111.50
35	DA	1970	A	C5'-C4'-C3'	6.59	125.09	115.20
38	DD	200	ASP	N-CA-C	-6.59	105.63	113.21
45	BN	67	LEU	N-CA-C	-6.59	99.91	109.59
34	D9	3	VAL	N-CA-C	6.59	119.12	109.63
43	BI	113	ARG	CD-NE-CZ	6.59	133.62	124.40
13	CM	82	MET	N-CA-C	-6.59	105.55	112.93
1	AA	687	A	C2'-C3'-O3'	6.58	119.38	109.50
23	AX	23	A	C5'-C4'-C3'	6.58	125.87	116.00
27	B2	43	GLN	CA-C-O	6.58	121.76	117.94
40	DF	58	ALA	N-CA-C	6.58	120.76	112.87
13	AM	104	ARG	N-CA-C	-6.58	105.00	113.16
46	BO	40	VAL	N-CA-C	-6.56	100.33	109.45
37	DC	133	PRO	N-CA-CB	6.56	110.14	103.25
37	DC	220	PRO	N-CA-CB	6.56	110.14	103.25
23	AX	16	A	C1'-O4'-C4'	6.55	116.45	109.90
4	CD	47	ARG	CD-NE-CZ	6.55	133.57	124.40
35	DA	363(F)	A	C2'-C3'-O3'	-6.55	103.88	113.70
43	BI	68	LEU	N-CA-C	-6.54	102.58	111.55
5	CE	32	VAL	N-CA-C	6.54	117.91	108.48
35	BA	1490	A	C5'-C4'-C3'	6.54	125.82	116.00
37	BC	182	PRO	N-CA-CB	6.54	110.11	103.25
35	DA	1820	U	C4'-C3'-O3'	6.54	119.21	109.40
37	DC	201	PRO	N-CA-CB	6.54	110.11	103.25
58	CX	19	G	P-O5'-C5'	-6.53	111.10	120.90
42	DH	10	PRO	CB-CA-C	-6.53	100.79	111.56
42	BH	10	PRO	CB-CA-C	-6.52	100.81	111.56
24	AY	39	LYS	N-CA-CB	-6.52	100.73	110.90
35	DA	1911	U	O4'-C1'-C2'	-6.51	101.09	107.60
43	DI	68	LEU	N-CA-C	-6.51	102.63	111.55
49	DR	12	ARG	N-CA-C	-6.51	99.24	108.23
35	BA	945	A	N9-C1'-C2'	6.51	121.77	112.00
18	AR	51	LEU	N-CA-C	6.51	118.89	109.84
57	DZ	67	LEU	N-CA-C	6.51	119.97	110.14
56	DY	96	ILE	CB-CA-C	-6.51	104.16	111.45
41	DG	178	PHE	CA-C-N	6.50	127.96	119.84
41	DG	178	PHE	C-N-CA	6.50	127.96	119.84
43	DI	113	ARG	NE-CZ-NH2	-6.49	113.36	119.20
43	BI	129	THR	N-CA-C	6.48	118.39	109.18
50	BS	43	GLU	N-CA-C	-6.48	103.87	113.72
38	DD	193	VAL	N-CA-C	6.48	118.11	109.37
35	BA	776	G	C3'-C2'-O2'	-6.47	104.89	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	776	G	P-O5'-C5'	-6.46	111.21	120.90
37	BC	220	PRO	N-CA-CB	6.46	110.03	103.25
45	DN	115	ARG	N-CA-C	-6.46	104.32	111.36
35	BA	1820	U	C4'-C3'-O3'	6.45	119.08	109.40
22	AV	52	G	C4'-C3'-C2'	-6.45	96.15	102.60
5	AE	12	LEU	N-CA-C	6.45	117.08	108.38
23	AX	19	U	O5'-C5'-C4'	6.44	121.36	111.70
35	DA	1911	U	C5'-C4'-O4'	-6.44	100.14	109.80
34	B9	3	VAL	N-CA-C	6.44	118.90	109.63
37	DC	182	PRO	N-CA-CB	6.43	110.00	103.25
4	CD	47	ARG	NE-CZ-NH2	-6.43	113.41	119.20
45	BN	115	ARG	N-CA-C	-6.42	104.36	111.36
35	BA	774	A	P-O3'-C3'	-6.42	110.57	120.20
35	BA	1300	U	C4'-C3'-O3'	-6.42	103.37	113.00
33	D8	34	TRP	N-CA-C	-6.42	97.12	110.80
37	BC	201	PRO	N-CA-CB	6.42	109.99	103.25
35	DA	1300	U	C4'-C3'-O3'	-6.41	103.38	113.00
23	AX	19	U	P-O3'-C3'	6.41	129.81	120.20
50	DS	43	GLU	N-CA-C	-6.40	103.99	113.72
23	AX	20	U	C3'-C2'-O2'	6.40	124.20	114.60
24	AY	85	GLY	N-CA-C	-6.40	99.28	112.34
33	B8	34	TRP	N-CA-C	-6.40	97.17	110.80
52	DU	87	GLY	N-CA-C	-6.40	106.49	115.32
23	AX	10	G	O3'-P-O5'	6.39	113.59	104.00
58	CX	15	A	O4'-C1'-C2'	6.39	113.99	107.60
11	CK	87	THR	N-CA-C	-6.38	102.72	112.99
45	DN	67	LEU	N-CA-C	-6.38	100.21	109.59
56	DY	8	LYS	N-CA-C	6.37	118.22	109.18
37	BC	133	PRO	N-CA-CB	6.36	109.93	103.25
47	BP	62	LEU	N-CA-C	6.36	118.54	108.23
4	AD	50	ARG	CD-NE-CZ	6.36	133.31	124.40
31	B6	42	TRP	N-CA-C	-6.36	104.78	112.54
43	DI	113	ARG	CD-NE-CZ	6.36	133.30	124.40
37	DC	140	PRO	N-CA-CB	6.35	109.92	103.25
24	CY	12	ALA	N-CA-C	6.35	119.34	110.20
52	BU	50	ARG	N-CA-C	-6.35	103.88	111.69
40	BF	12	LEU	N-CA-C	-6.35	106.50	114.56
27	B2	43	GLN	CB-CA-C	-6.34	107.94	117.07
57	BZ	124	ILE	N-CA-C	6.34	118.21	109.46
46	DO	88	ASN	N-CA-C	-6.34	101.08	110.46
20	CT	76	ALA	N-CA-C	-6.33	104.26	112.23
13	AM	20	THR	N-CA-C	-6.31	104.45	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	32	VAL	N-CA-C	6.31	117.57	108.48
45	BN	46	VAL	N-CA-C	6.31	122.46	109.34
23	AX	20	U	C2'-C3'-O3'	6.30	118.96	109.50
23	AX	19	U	C2'-C3'-O3'	6.30	118.95	109.50
37	BC	140	PRO	N-CA-CB	6.30	109.86	103.25
23	AX	14	A	C4'-C3'-C2'	-6.28	96.32	102.60
26	B1	29	GLY	N-CA-C	6.28	118.61	110.45
35	DA	493	G	C5'-C4'-C3'	-6.28	106.58	116.00
40	BF	66	PRO	N-CA-C	6.28	125.40	112.47
45	BN	125	GLY	N-CA-C	6.27	125.13	112.34
22	AV	52	G	O5'-P-OP1	6.26	126.79	108.00
35	BA	2031	A	N9-C1'-C2'	6.26	121.40	112.00
4	AD	72	GLU	N-CA-C	-6.26	104.45	111.28
12	CL	11	GLY	N-CA-C	-6.26	105.66	112.04
22	CV	76	A	C2'-C3'-O3'	-6.24	100.14	109.50
48	DQ	80	GLU	N-CA-C	6.24	120.19	112.58
40	DF	120	GLU	N-CA-C	-6.23	105.25	112.92
1	AA	1049	U	C2'-C3'-O3'	6.23	118.84	109.50
20	AT	76	ALA	N-CA-C	-6.23	104.38	112.23
40	DF	12	LEU	N-CA-C	-6.23	106.65	114.56
38	BD	193	VAL	N-CA-C	6.22	117.77	109.37
33	B8	60	LEU	N-CA-C	-6.22	100.94	109.71
58	CX	12	A	C1'-O4'-C4'	-6.20	103.50	109.70
35	BA	1489	U	O3'-P-O5'	6.20	113.30	104.00
56	BY	96	ILE	CB-CA-C	-6.20	104.50	111.45
1	CA	687	A	C2'-C3'-O3'	6.20	118.80	109.50
35	BA	776	G	O5'-P-OP2	-6.20	89.42	108.00
58	CX	16	A	O4'-C1'-C2'	-6.20	101.41	107.60
56	BY	83	THR	N-CA-C	6.19	118.47	108.32
47	BP	73	GLY	N-CA-C	6.19	119.76	110.97
38	DD	35	LYS	CA-C-N	6.19	127.57	119.84
38	DD	35	LYS	C-N-CA	6.19	127.57	119.84
35	BA	775	G	OP2-P-O3'	-6.18	89.46	108.00
35	DA	945	A	N9-C1'-C2'	6.18	121.27	112.00
13	CM	104	ARG	N-CA-C	-6.17	105.51	113.16
57	BZ	136	PHE	N-CA-C	6.17	118.03	109.15
43	BI	61	ARG	CD-NE-CZ	6.16	133.03	124.40
4	AD	47	ARG	CD-NE-CZ	6.16	133.03	124.40
47	DP	10	PRO	N-CA-C	-6.15	99.79	112.47
49	DR	10	LEU	CA-CB-CG	6.14	137.78	116.30
40	BF	93	LYS	N-CA-C	-6.13	99.58	109.58
24	AY	55	ASP	CA-C-N	6.13	129.00	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	55	ASP	C-N-CA	6.13	129.00	120.29
43	BI	50	ARG	N-CA-C	-6.13	105.63	113.23
35	BA	777	A	O4'-C1'-C2'	-6.13	101.47	107.60
40	DF	183	VAL	N-CA-C	6.13	116.79	110.36
8	AH	32	LYS	N-CA-C	-6.13	105.06	112.54
56	DY	83	THR	N-CA-C	6.12	118.36	108.32
12	AL	38	ARG	CD-NE-CZ	6.12	132.97	124.40
23	AX	19	U	P-O5'-C5'	-6.12	111.72	120.90
45	DN	125	GLY	N-CA-C	6.12	124.82	112.34
1	CA	1049	U	C2'-C3'-O3'	6.12	118.68	109.50
22	AV	52	G	C3'-C2'-O2'	6.11	119.86	110.70
47	BP	14	LYS	N-CA-C	6.11	123.80	110.80
32	B7	4	THR	N-CA-C	6.10	118.01	111.36
35	BA	774	A	OP2-P-O3'	-6.10	89.70	108.00
24	AY	51	ILE	CB-CA-C	-6.10	101.53	110.62
45	DN	46	VAL	N-CA-C	6.10	122.02	109.34
49	DR	12	ARG	CG-CD-NE	-6.10	98.59	112.00
46	BO	88	ASN	N-CA-C	-6.10	100.97	110.17
48	DQ	46	GLN	N-CA-C	-6.09	104.58	112.68
31	D6	42	TRP	N-CA-C	-6.08	104.76	111.82
47	BP	10	PRO	N-CA-C	-6.08	99.94	112.47
47	DP	62	LEU	N-CA-C	6.08	118.08	108.23
1	AA	748	C	C2'-C3'-O3'	6.07	118.60	109.50
23	AX	14	A	O4'-C4'-C3'	-6.06	97.94	104.00
23	AX	20	U	C4'-C3'-C2'	-6.06	96.54	102.60
23	AX	16	A	O4'-C1'-C2'	-6.06	101.54	107.60
49	DR	70	LEU	N-CA-C	-6.06	100.33	109.60
40	DF	66	PRO	N-CA-C	6.05	124.93	112.47
23	AX	24	A	C5'-C4'-O4'	6.04	118.17	109.10
22	AV	53	G	O5'-P-OP1	-6.04	89.89	108.00
23	AX	12	A	C5'-C4'-O4'	-6.04	100.74	109.80
49	BR	70	LEU	N-CA-C	-6.04	100.36	109.60
47	DP	14	LYS	N-CA-C	6.04	123.66	110.80
14	AN	7	ILE	N-CA-C	-6.03	104.86	113.07
35	BA	790	C	C2'-C3'-O3'	6.03	118.55	109.50
35	BA	1427	A	C2'-C3'-O3'	6.03	118.55	109.50
31	D6	48	VAL	N-CA-C	-6.03	104.81	113.07
52	BU	87	GLY	N-CA-C	-6.03	107.00	115.32
57	BZ	42	VAL	N-CA-C	6.02	116.68	110.36
55	DX	25	LYS	N-CA-C	6.02	118.95	107.75
12	AL	35	THR	N-CA-C	-6.02	105.85	113.43
35	DA	2031	A	N9-C1'-C2'	6.01	121.02	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B4	47	GLN	N-CA-C	6.01	123.60	110.80
1	CA	401	C	N1-C1'-C2'	-6.01	102.98	112.00
35	BA	1484	G	C4'-C3'-O3'	6.00	122.00	113.00
56	BY	8	LYS	N-CA-C	5.99	117.69	109.18
23	AX	19	U	C1'-C2'-O2'	-5.99	102.82	111.80
5	CE	12	LEU	N-CA-C	5.98	116.45	108.38
26	D1	52	ARG	N-CA-C	5.98	120.39	111.96
29	D4	47	GLN	N-CA-C	5.96	123.50	110.80
2	CB	193	ASP	CA-C-N	5.95	125.66	119.05
2	CB	193	ASP	C-N-CA	5.95	125.66	119.05
31	B6	48	VAL	N-CA-C	-5.95	104.92	113.07
55	BX	25	LYS	N-CA-C	5.95	118.82	107.75
39	DE	127	ASP	N-CA-C	-5.95	106.00	113.20
45	DN	70	LYS	N-CA-C	-5.94	100.16	109.25
35	BA	784	A	N9-C1'-C2'	5.93	120.90	112.00
43	BI	61	ARG	NE-CZ-NH2	-5.93	113.86	119.20
35	BA	776	G	O4'-C1'-N9	-5.93	99.30	108.20
23	AX	23	A	C5'-C4'-O4'	-5.93	100.90	109.80
1	CA	60	A	C2'-C3'-O3'	5.92	118.38	109.50
35	BA	1490	A	C5'-C4'-O4'	-5.92	100.93	109.80
22	AV	52	G	O5'-P-OP2	5.91	125.74	108.00
24	AY	48	GLY	N-CA-C	-5.91	107.01	115.64
35	DA	2319	G	N9-C1'-C2'	-5.91	105.13	114.00
23	AX	13	A	N9-C1'-C2'	5.91	120.86	112.00
35	BA	1987	G	C5'-C4'-C3'	-5.90	107.14	116.00
35	BA	493	G	C5'-C4'-C3'	-5.90	107.15	116.00
48	BQ	46	GLN	N-CA-C	-5.89	104.84	112.68
48	BQ	67	ARG	N-CA-C	5.89	117.70	111.28
43	DI	88	ILE	N-CA-C	5.89	121.60	109.34
58	CX	13	A	C4'-C3'-C2'	-5.89	96.71	102.60
35	BA	775	G	N9-C1'-C2'	5.89	122.83	114.00
35	DA	1427	A	C2'-C3'-O3'	5.89	118.33	109.50
4	CD	72	GLU	N-CA-C	-5.89	104.86	111.28
14	CN	7	ILE	N-CA-C	-5.89	105.06	113.07
35	DA	2200	C	C5'-C4'-C3'	-5.88	107.17	116.00
43	BI	88	ILE	N-CA-C	5.88	121.58	109.34
45	BN	132	ALA	N-CA-C	-5.87	103.59	111.87
39	BE	127	ASP	N-CA-C	-5.87	106.10	113.20
58	CX	18	G	C4'-C3'-O3'	5.87	121.80	113.00
47	BP	59	LEU	N-CA-C	-5.87	105.70	112.92
58	CX	13	A	O4'-C1'-N9	-5.87	99.70	108.50
35	DA	1694	C	C4'-C3'-O3'	5.86	121.79	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	DI	61	ARG	CD-NE-CZ	5.86	132.61	124.40
40	DF	59	TYR	N-CA-C	5.86	118.27	110.53
38	BD	35	LYS	CA-C-N	5.86	127.16	119.84
38	BD	35	LYS	C-N-CA	5.86	127.16	119.84
35	BA	1493	C	N1-C1'-C2'	5.86	122.78	114.00
45	DN	132	ALA	N-CA-C	-5.85	103.62	111.87
57	BZ	86	VAL	N-CA-C	5.85	116.91	108.48
43	DI	61	ARG	N-CA-C	-5.85	106.27	113.41
35	BA	1490	A	O4'-C4'-C3'	-5.85	98.15	104.00
40	BF	120	GLU	N-CA-C	-5.85	105.73	112.92
57	BZ	154	ASP	N-CA-C	-5.84	105.03	113.21
35	DA	2689	U	C2'-C3'-O3'	5.84	118.27	109.50
40	BF	7	TYR	N-CA-C	-5.84	102.65	110.24
41	DG	82	LEU	N-CA-C	5.83	123.22	110.80
18	CR	56	THR	N-CA-C	-5.83	105.18	112.93
32	D7	4	THR	N-CA-C	5.82	117.71	111.36
50	DS	56	LEU	N-CA-C	-5.82	105.50	113.30
33	B8	48	PHE	N-CA-C	5.82	123.20	110.80
2	CB	192	SER	N-CA-C	5.81	118.36	110.35
50	BS	56	LEU	N-CA-C	-5.81	105.52	113.30
35	DA	784	A	N9-C1'-C2'	5.80	120.70	112.00
45	BN	70	LYS	N-CA-C	-5.80	100.37	109.25
54	BW	12	ILE	N-CA-C	-5.80	100.63	108.06
33	D8	46	ARG	N-CA-C	5.80	119.54	110.32
46	BO	68	GLU	N-CA-C	5.79	118.46	110.35
23	AX	25	A	O4'-C1'-N9	-5.79	99.51	108.20
46	DO	24	VAL	N-CA-C	-5.79	100.24	108.58
51	BT	80	SER	CA-C-N	-5.79	112.60	119.84
51	BT	80	SER	C-N-CA	-5.79	112.60	119.84
15	CO	68	ARG	N-CA-C	-5.79	104.97	111.28
35	BA	776	G	C1'-O4'-C4'	5.79	115.49	109.70
47	DP	17	LYS	N-CA-C	5.78	123.12	110.80
49	DR	3	HIS	N-CA-C	-5.78	102.88	110.33
33	D8	19	SER	N-CA-C	-5.78	106.21	113.20
35	DA	1484	G	C4'-C3'-O3'	5.78	121.67	113.00
24	AY	13	PRO	N-CA-C	-5.78	100.57	112.47
24	AY	77	PRO	N-CA-C	-5.78	105.50	113.53
43	BI	133	HIS	CA-C-N	-5.77	113.28	119.98
43	BI	133	HIS	C-N-CA	-5.77	113.28	119.98
47	DP	71	VAL	N-CA-C	5.77	121.35	108.88
26	D1	31	GLY	N-CA-C	5.77	118.27	111.63
48	DQ	67	ARG	N-CA-C	5.77	117.57	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	CG	7	ALA	CB-CA-C	-5.77	109.94	116.63
8	CH	32	LYS	N-CA-C	-5.77	105.50	112.54
35	BA	1300	U	C5'-C4'-C3'	5.76	124.64	116.00
58	CX	18	G	O4'-C1'-C2'	-5.76	101.84	107.60
2	AB	193	ASP	CA-C-N	5.76	125.44	119.05
2	AB	193	ASP	C-N-CA	5.76	125.44	119.05
38	BD	135	PHE	CA-C-N	-5.76	118.32	123.33
38	BD	135	PHE	C-N-CA	-5.76	118.32	123.33
23	AX	13	A	O5'-C5'-C4'	5.76	120.14	111.50
47	BP	17	LYS	N-CA-C	5.76	123.06	110.80
35	DA	1210	A	C2'-C3'-O3'	5.76	118.13	109.50
19	AS	36	ARG	N-CA-C	-5.75	106.22	113.18
54	DW	86	LEU	CA-C-N	-5.75	114.01	119.76
54	DW	86	LEU	C-N-CA	-5.75	114.01	119.76
42	BH	163	TYR	N-CA-C	5.74	118.96	109.94
43	DI	133	HIS	CA-C-N	-5.74	113.32	119.98
43	DI	133	HIS	C-N-CA	-5.74	113.32	119.98
2	AB	192	SER	N-CA-C	5.74	118.27	110.35
26	B1	25	LYS	N-CA-C	-5.74	106.41	113.41
54	BW	92	ARG	N-CA-C	5.74	118.02	111.02
42	DH	163	TYR	N-CA-C	5.74	118.95	109.94
4	CD	50	ARG	NE-CZ-NH1	5.74	127.24	121.50
56	DY	55	TYR	CA-C-N	5.74	127.01	119.84
56	DY	55	TYR	C-N-CA	5.74	127.01	119.84
48	BQ	80	GLU	N-CA-C	5.73	119.58	112.58
35	DA	1781	C	N1-C1'-C2'	5.73	122.60	114.00
57	DZ	56	VAL	N-CA-C	5.73	117.88	109.63
35	BA	1490	A	C2'-C3'-O3'	-5.73	105.10	113.70
11	CK	33	THR	CB-CA-C	-5.72	107.25	114.40
51	DT	9	LEU	N-CA-C	-5.71	103.81	112.04
57	DZ	50	GLN	N-CA-C	-5.71	106.96	114.04
35	BA	74	A	C2'-C3'-O3'	5.71	118.06	109.50
49	BR	5	LYS	N-CA-C	-5.71	98.64	110.80
11	AK	33	THR	CB-CA-C	-5.71	107.27	114.40
43	BI	101	LEU	N-CA-C	-5.70	105.82	112.89
1	AA	1225	A	N9-C1'-C2'	5.70	120.55	112.00
33	B8	46	ARG	N-CA-C	5.70	119.38	110.32
54	DW	101	SER	N-CA-C	5.70	118.07	109.23
23	AX	16	A	C2'-C3'-O3'	-5.70	105.15	113.70
20	CT	14	LYS	N-CA-C	-5.69	104.98	111.07
24	AY	45	GLY	N-CA-C	-5.69	102.32	111.59
32	B7	6	GLN	CA-C-N	5.68	126.94	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	B7	6	GLN	C-N-CA	5.68	126.94	119.84
7	AG	7	ALA	CB-CA-C	-5.68	110.01	116.54
41	DG	56	ALA	N-CA-C	-5.68	106.12	113.16
57	DZ	67	LEU	CA-C-N	5.68	126.94	119.84
57	DZ	67	LEU	C-N-CA	5.68	126.94	119.84
40	DF	93	LYS	N-CA-C	-5.68	99.21	109.09
57	DZ	22	GLY	N-CA-C	-5.68	107.48	115.32
56	BY	88	LYS	CB-CA-C	-5.67	109.51	117.23
43	BI	52	ARG	NE-CZ-NH2	-5.67	114.09	119.20
35	BA	221	A	C2'-C3'-O3'	5.67	118.01	109.50
39	BE	62	PRO	N-CA-C	-5.67	107.42	114.68
35	BA	614(C)	A	C4'-C3'-O3'	5.67	117.90	109.40
35	BA	2689	U	C2'-C3'-O3'	5.67	118.00	109.50
16	AP	19	ILE	N-CA-C	-5.66	101.29	108.93
43	DI	52	ARG	CD-NE-CZ	5.66	132.32	124.40
1	CA	401	C	C4'-C3'-O3'	5.65	121.48	113.00
1	CA	748	C	C2'-C3'-O3'	5.65	117.98	109.50
2	CB	87	ARG	N-CA-C	-5.65	106.42	113.15
33	B8	51	ALA	N-CA-C	-5.65	98.76	110.80
42	BH	155	SER	N-CA-C	5.65	122.83	110.80
35	BA	1332	G	C2'-C3'-O3'	5.65	117.97	109.50
47	DP	56	SER	N-CA-C	5.65	122.83	110.80
47	BP	71	VAL	N-CA-C	5.64	121.06	108.88
2	CB	88	ALA	N-CA-C	-5.64	105.35	114.09
19	CS	36	ARG	N-CA-C	-5.64	106.36	113.18
2	AB	229	VAL	N-CA-C	5.63	114.72	106.55
38	BD	215	LEU	N-CA-C	-5.63	107.00	112.97
39	BE	169	ASN	N-CA-C	5.63	119.20	111.54
12	AL	11	GLY	N-CA-C	-5.63	106.30	112.04
35	BA	776	G	C4'-C3'-C2'	-5.63	96.97	102.60
35	DA	1159	U	C5'-C4'-C3'	-5.63	107.55	116.00
42	DH	155	SER	N-CA-C	5.63	122.80	110.80
35	DA	1543	C	O5'-C5'-C4'	5.63	119.94	111.50
35	DA	74	A	C2'-C3'-O3'	5.62	117.94	109.50
22	AV	53	G	C4'-C3'-O3'	5.62	121.43	113.00
39	DE	62	PRO	N-CA-C	-5.62	107.48	114.68
45	DN	112	LEU	N-CA-C	-5.62	105.07	111.14
40	BF	183	VAL	N-CA-C	5.62	117.03	110.62
56	BY	55	TYR	CA-C-N	5.62	126.86	119.84
56	BY	55	TYR	C-N-CA	5.62	126.86	119.84
23	AX	24	A	O5'-C5'-C4'	-5.62	103.28	111.70
1	CA	250	A	C2'-C3'-O3'	5.62	117.92	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CB	229	VAL	N-CA-C	5.61	114.68	106.55
56	DY	88	LYS	CB-CA-C	-5.60	109.61	117.23
35	BA	1616	A	N9-C1'-C2'	5.60	122.40	114.00
26	D1	18	ILE	N-CA-C	5.60	114.81	106.85
35	DA	221	A	C2'-C3'-O3'	5.60	117.91	109.50
25	B0	12	ASN	N-CA-C	5.60	117.48	107.80
51	BT	9	LEU	N-CA-C	-5.59	103.99	112.04
2	AB	87	ARG	N-CA-C	-5.59	106.50	113.15
12	AL	38	ARG	NE-CZ-NH2	-5.59	114.17	119.20
38	DD	244	ARG	C-N-CD	-5.58	108.32	120.60
35	BA	847	U	N1-C1'-C2'	5.58	120.37	112.00
13	AM	80	ARG	N-CA-C	-5.58	105.28	111.36
20	AT	14	LYS	N-CA-C	-5.58	105.10	111.07
47	BP	43	GLY	N-CA-C	-5.58	99.96	113.18
24	AY	84	LYS	N-CA-C	5.58	122.68	110.80
32	D7	6	GLN	CA-C-N	5.58	126.81	119.84
32	D7	6	GLN	C-N-CA	5.58	126.81	119.84
35	DA	2282	G	C2'-C3'-O3'	5.57	117.86	109.50
38	BD	53	PHE	N-CA-C	5.57	119.66	112.86
48	BQ	132	VAL	N-CA-C	5.57	116.20	108.23
38	DD	53	PHE	N-CA-C	5.57	119.66	112.86
43	BI	61	ARG	N-CA-C	-5.57	106.62	113.41
35	DA	847	U	N1-C1'-C2'	5.57	120.35	112.00
4	CD	47	ARG	NE-CZ-NH1	5.57	127.06	121.50
16	CP	19	ILE	N-CA-C	-5.57	101.42	108.93
40	DF	79	GLY	N-CA-C	-5.56	106.98	115.66
23	AX	25	A	C1'-O4'-C4'	-5.56	104.14	109.70
35	BA	776	G	O4'-C1'-C2'	-5.56	100.24	105.80
41	DG	169	ALA	N-CA-C	-5.56	105.28	112.68
6	AF	98	LEU	N-CA-C	5.55	118.53	109.59
35	BA	1053	C	N1-C1'-C2'	5.55	120.33	112.00
7	CG	61	VAL	N-CA-C	-5.55	105.78	113.00
40	DF	7	TYR	N-CA-C	-5.55	103.02	110.24
2	AB	28	PHE	N-CA-C	-5.55	106.30	112.57
1	CA	438	G	C2'-C3'-O3'	-5.55	105.37	113.70
12	CL	38	ARG	CD-NE-CZ	5.55	132.17	124.40
35	DA	1300	U	C5'-C4'-C3'	5.55	124.32	116.00
23	AX	10	G	C3'-C2'-C1'	5.54	106.84	101.30
6	CF	98	LEU	N-CA-C	5.54	118.51	109.59
22	AV	76	A	C2'-C3'-O3'	-5.53	101.20	109.50
47	BP	101	VAL	N-CA-C	-5.53	104.03	111.44
35	BA	1506	C	N1-C1'-C2'	5.53	120.30	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AC	19	GLU	N-CA-C	-5.53	106.61	113.19
46	DO	68	GLU	N-CA-C	5.53	118.08	110.35
52	DU	58	ARG	N-CA-C	-5.53	104.64	111.33
23	AX	14	A	P-O3'-C3'	-5.52	111.92	120.20
1	CA	1300	G	C2'-C3'-O3'	5.52	117.78	109.50
35	DA	1301	A	C2'-C3'-O3'	5.52	117.78	109.50
51	DT	80	SER	CA-C-N	-5.52	112.94	119.84
51	DT	80	SER	C-N-CA	-5.52	112.94	119.84
1	CA	401	C	C1'-C2'-O2'	5.52	116.68	108.40
24	AY	37	GLY	N-CA-C	-5.52	107.65	115.43
42	BH	13	LYS	N-CA-C	-5.52	101.14	109.85
46	BO	24	VAL	N-CA-C	-5.52	100.64	108.58
33	B8	19	SER	N-CA-C	-5.51	106.53	113.20
40	BF	83	PHE	N-CA-C	5.51	119.80	112.30
48	BQ	125	LEU	CA-C-N	5.51	126.57	120.45
48	BQ	125	LEU	C-N-CA	5.51	126.57	120.45
35	BA	1022	G	C4'-C3'-O3'	5.51	117.66	109.40
35	BA	2200	C	C5'-C4'-C3'	-5.51	107.74	116.00
25	D0	12	ASN	N-CA-C	5.51	117.33	107.80
42	DH	13	LYS	N-CA-C	-5.51	101.15	109.85
35	BA	1781	C	N1-C1'-C2'	5.50	122.26	114.00
35	BA	777	A	C2'-C3'-O3'	-5.50	105.45	113.70
35	DA	2320	A	N9-C1'-C2'	-5.50	105.75	114.00
33	D8	48	PHE	N-CA-C	5.50	122.51	110.80
49	DR	5	LYS	N-CA-C	-5.50	99.09	110.80
4	AD	171	GLY	CA-C-N	5.50	126.71	119.84
4	AD	171	GLY	C-N-CA	5.50	126.71	119.84
13	AM	47	ASP	N-CA-C	5.50	116.90	107.28
43	BI	52	ARG	CD-NE-CZ	5.50	132.09	124.40
49	BR	3	HIS	N-CA-C	-5.50	103.24	110.33
17	AQ	93	GLN	N-CA-C	-5.49	106.63	113.55
12	CL	72	HIS	N-CA-C	5.49	116.62	108.60
33	D8	51	ALA	N-CA-C	-5.49	99.10	110.80
35	BA	1210	A	C2'-C3'-O3'	5.49	117.73	109.50
49	BR	58	GLY	N-CA-C	5.49	126.19	113.18
22	AV	53	G	C5'-C4'-C3'	-5.49	107.77	116.00
41	DG	88	ILE	N-CA-C	5.49	117.08	109.29
27	B2	43	GLN	N-CA-C	5.49	113.28	108.78
47	BP	56	SER	N-CA-C	5.48	122.48	110.80
23	AX	14	A	C4'-C3'-O3'	5.48	121.22	113.00
35	BA	1046	A	N9-C1'-C2'	5.48	120.22	112.00
43	BI	43	ASN	N-CA-C	-5.48	106.65	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	94	LYS	N-CA-C	-5.47	106.56	113.18
35	BA	2282	G	C2'-C3'-O3'	5.47	117.71	109.50
45	BN	71	ILE	N-CA-C	5.47	115.74	107.75
54	BW	86	LEU	CA-C-N	-5.47	114.29	119.76
54	BW	86	LEU	C-N-CA	-5.47	114.29	119.76
58	CX	13	A	N9-C1'-C2'	-5.47	103.79	112.00
39	DE	132	HIS	CA-C-N	-5.47	113.97	122.67
39	DE	132	HIS	C-N-CA	-5.47	113.97	122.67
47	DP	43	GLY	N-CA-C	-5.47	100.22	113.18
54	BW	101	SER	N-CA-C	5.47	117.70	109.23
2	AB	88	ALA	N-CA-C	-5.46	105.62	114.09
49	DR	5	LYS	CB-CG-CD	5.46	123.87	111.30
2	AB	112	VAL	N-CA-C	-5.46	105.52	110.82
35	BA	1427	A	N9-C1'-C2'	5.46	122.19	114.00
35	DA	1506	C	N1-C1'-C2'	5.46	120.19	112.00
12	AL	83	ARG	N-CA-C	5.46	119.90	112.04
35	DA	1053	C	N1-C1'-C2'	5.46	120.18	112.00
35	DA	1046	A	N9-C1'-C2'	5.46	120.18	112.00
35	DA	1616	A	N9-C1'-C2'	5.45	122.18	114.00
16	AP	20	VAL	N-CA-C	5.45	116.89	108.44
43	DI	113	ARG	NE-CZ-NH1	5.45	126.95	121.50
43	BI	61	ARG	NE-CZ-NH1	5.44	126.94	121.50
35	BA	775	G	C4'-C3'-O3'	5.44	117.56	109.40
13	CM	80	ARG	N-CA-C	-5.44	105.43	111.36
1	AA	1300	G	C2'-C3'-O3'	5.44	117.66	109.50
43	DI	73	GLU	N-CA-C	-5.44	105.76	112.72
1	CA	560	U	C2'-C3'-O3'	5.43	117.65	109.50
12	CL	83	ARG	N-CA-C	5.43	119.86	112.04
43	BI	73	GLU	N-CA-C	-5.43	105.77	112.72
33	B8	54	GLU	N-CA-C	-5.43	104.76	111.33
33	B8	29	LYS	N-CA-C	5.43	118.03	108.75
51	DT	15	VAL	N-CA-C	5.42	116.05	108.89
48	DQ	132	VAL	N-CA-C	5.42	115.98	108.23
16	CP	20	VAL	N-CA-C	5.42	116.84	108.44
35	DA	1223	G	C5'-C4'-C3'	-5.42	107.87	116.00
4	AD	9	CYS	N-CA-C	-5.42	106.64	113.20
23	AX	13	A	C5'-C4'-O4'	5.42	117.92	109.80
38	BD	234	GLY	N-CA-C	5.42	118.16	111.93
43	DI	43	ASN	N-CA-C	-5.41	106.73	113.55
43	DI	101	LEU	N-CA-C	-5.41	106.18	112.89
35	BA	1490	A	O4'-C1'-N9	5.41	116.61	108.50
33	D8	36	LYS	N-CA-C	-5.41	99.62	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	57	GLN	N-CA-C	-5.41	105.30	111.14
40	DF	157	VAL	N-CA-C	5.40	115.31	106.72
26	D1	72	GLU	N-CA-C	-5.40	105.43	112.23
35	DA	790	C	C2'-C3'-O3'	5.39	117.59	109.50
35	DA	494	G	C5'-C4'-C3'	-5.39	107.91	116.00
24	AY	58	ALA	N-CA-C	5.39	117.23	111.36
35	BA	494	G	C5'-C4'-C3'	-5.39	107.92	116.00
24	AY	63	GLY	N-CA-C	5.38	120.32	110.95
50	BS	16	ASN	N-CA-C	-5.38	104.86	111.75
51	BT	29	ARG	N-CA-C	5.38	122.26	110.80
39	DE	58	ARG	N-CA-C	-5.38	106.30	112.92
58	CX	17	U	N1-C1'-C2'	5.38	120.07	112.00
5	CE	76	ILE	CA-C-N	5.38	124.99	119.56
5	CE	76	ILE	C-N-CA	5.38	124.99	119.56
39	DE	73	GLU	CA-C-N	5.38	125.38	119.90
39	DE	73	GLU	C-N-CA	5.38	125.38	119.90
54	DW	92	ARG	N-CA-C	5.37	117.57	111.02
35	BA	1223	G	C5'-C4'-C3'	-5.37	107.95	116.00
17	CQ	93	GLN	N-CA-C	-5.37	106.79	113.55
33	D8	29	LYS	N-CA-C	5.37	117.93	108.75
42	BH	13	LYS	CA-C-O	-5.37	115.18	121.46
7	AG	95	ARG	N-CA-C	-5.37	105.09	111.69
33	D8	27	THR	N-CA-C	-5.36	101.53	110.17
45	BN	20	GLY	N-CA-C	-5.36	106.46	115.62
1	CA	119	A	C2'-C3'-O3'	5.36	117.54	109.50
24	CY	5	TYR	N-CA-C	5.36	120.21	111.37
40	DF	83	PHE	N-CA-C	5.36	119.58	112.30
22	AV	52	G	C8-N9-C1'	5.35	143.06	127.00
52	DU	9	VAL	N-CA-C	5.35	120.48	109.34
15	AO	68	ARG	N-CA-C	-5.35	105.44	111.28
26	B1	62	VAL	N-CA-C	5.35	116.73	108.44
57	BZ	33	LEU	N-CA-C	5.35	117.95	109.50
25	D0	38	VAL	N-CA-C	5.35	115.41	108.35
47	DP	101	VAL	N-CA-C	-5.35	104.27	111.44
35	BA	1490	A	N9-C1'-C2'	-5.35	103.98	112.00
42	DH	13	LYS	CA-C-O	-5.34	115.21	121.46
2	CB	28	PHE	N-CA-C	-5.34	106.53	112.57
55	DX	29	TRP	N-CA-C	-5.34	100.59	109.46
46	DO	30	ALA	N-CA-C	-5.34	102.49	110.23
24	AY	18	ILE	CB-CA-C	-5.33	102.54	111.29
35	BA	1962	C	C5'-C4'-C3'	5.33	123.20	115.20
1	AA	920	U	C5'-C4'-C3'	-5.33	108.00	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BD	244	ARG	C-N-CD	-5.33	108.88	120.60
41	BG	91	ARG	N-CA-C	5.32	116.62	108.42
57	BZ	109	ALA	N-CA-C	-5.32	106.47	113.12
7	AG	61	VAL	N-CA-C	-5.32	106.08	113.00
35	BA	1490	A	O5'-C5'-C4'	5.32	119.48	111.50
23	AX	21	C	C2'-C3'-O3'	-5.32	105.72	113.70
24	AY	54	TRP	N-CA-C	5.32	117.91	109.24
35	DA	1987	G	C5'-C4'-C3'	-5.32	108.03	116.00
1	AA	438	G	C2'-C3'-O3'	-5.31	105.73	113.70
35	BA	656	G	C5'-C4'-C3'	5.31	123.97	116.00
51	DT	29	ARG	N-CA-C	5.31	122.11	110.80
1	AA	560	U	C2'-C3'-O3'	5.31	117.47	109.50
45	DN	71	ILE	N-CA-C	5.31	115.50	107.75
55	BX	29	TRP	N-CA-C	-5.31	100.65	109.46
35	DA	2360	A	N9-C1'-C2'	-5.30	104.04	112.00
43	DI	50	ARG	N-CA-C	-5.30	105.96	112.90
33	B8	36	LYS	N-CA-C	-5.29	99.82	108.76
9	AI	72	GLY	N-CA-C	-5.29	107.76	114.16
35	DA	1022	G	C4'-C3'-O3'	5.29	117.33	109.40
13	AM	40	ASN	CA-C-N	5.29	125.35	119.32
13	AM	40	ASN	C-N-CA	5.29	125.35	119.32
39	DE	137	HIS	N-CA-C	5.29	117.58	110.29
1	CA	920	U	C5'-C4'-C3'	-5.28	108.08	116.00
35	BA	777	A	N9-C1'-C2'	-5.28	104.08	112.00
40	BF	95	ARG	N-CA-C	5.28	116.87	108.79
35	BA	2360	A	N9-C1'-C2'	-5.28	104.08	112.00
3	CC	19	GLU	N-CA-C	-5.27	106.91	113.19
26	B1	75	GLU	N-CA-C	-5.27	105.22	110.97
33	B8	27	THR	N-CA-C	-5.27	101.94	110.32
7	CG	95	ARG	N-CA-C	-5.27	105.21	111.69
1	AA	119	A	C2'-C3'-O3'	5.26	117.40	109.50
39	BE	44	TYR	N-CA-C	5.26	122.64	114.64
49	DR	58	GLY	N-CA-C	5.26	125.65	113.18
47	DP	50	ARG	CA-C-N	-5.26	113.43	123.32
47	DP	50	ARG	C-N-CA	-5.26	113.43	123.32
13	CM	40	ASN	CA-C-N	5.26	125.32	119.32
13	CM	40	ASN	C-N-CA	5.26	125.32	119.32
27	D2	3	LEU	N-CA-C	-5.26	104.98	111.40
3	CC	88	ARG	N-CA-C	-5.26	106.93	113.19
55	DX	23	GLU	N-CA-C	-5.25	102.97	110.59
35	DA	1493	C	P-O5'-C5'	-5.25	113.02	120.90
23	AX	10	G	C2'-C3'-O3'	5.25	121.58	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	D1	92	LYS	N-CA-C	-5.25	104.98	111.33
3	AC	88	ARG	N-CA-C	-5.25	106.95	113.19
35	DA	2405	G	C4'-C3'-O3'	-5.24	105.13	113.00
35	BA	1159	U	C5'-C4'-C3'	-5.24	108.14	116.00
35	BA	2611	U	C5'-C4'-O4'	-5.24	101.94	109.80
51	BT	70	VAL	CB-CA-C	-5.23	105.83	111.59
38	DD	215	LEU	N-CA-C	-5.23	107.42	112.97
39	BE	25	VAL	N-CA-C	5.23	115.89	107.73
47	DP	63	PRO	N-CA-C	5.23	123.24	112.47
35	DA	543	C	N1-C1'-C2'	-5.22	106.16	114.00
27	B2	47	ASN	N-CA-C	5.22	121.93	110.80
12	AL	72	HIS	N-CA-C	5.21	116.21	108.60
2	CB	112	VAL	N-CA-C	-5.21	105.77	110.82
16	CP	67	THR	N-CA-C	-5.21	102.57	110.28
25	D0	19	LYS	N-CA-C	5.21	119.62	113.16
1	AA	266	G	C2'-C3'-O3'	5.21	121.51	113.70
40	BF	59	TYR	N-CA-C	5.20	117.40	110.53
10	CJ	29	ARG	N-CA-C	-5.20	106.97	113.72
42	DH	139	GLN	N-CA-C	-5.19	105.30	111.69
35	DA	752	A	C4'-C3'-C2'	5.19	107.79	102.60
35	DA	1695	G	C4'-C3'-O3'	-5.19	105.22	113.00
35	BA	1694	C	C4'-C3'-O3'	5.18	120.77	113.00
35	DA	239	U	C5'-C4'-C3'	-5.18	108.23	116.00
42	BH	139	GLN	N-CA-C	-5.18	105.32	111.69
22	AV	53	G	N3-C4-N9	-5.18	110.46	126.00
4	AD	203	VAL	N-CA-C	-5.18	104.79	112.04
22	AW	17(A)	U	C2'-C3'-O3'	5.18	121.47	113.70
24	AY	74	SER	N-CA-C	-5.17	100.27	109.06
35	DA	1543	C	O4'-C4'-C3'	-5.17	98.83	104.00
35	BA	1490	A	C1'-C2'-O2'	-5.17	100.65	108.40
35	DA	1598	C	C5'-C4'-C3'	-5.16	108.25	116.00
52	BU	9	VAL	N-CA-C	5.16	120.07	109.34
35	DA	669	G	O4'-C4'-C3'	-5.16	100.94	106.10
55	BX	31	HIS	CA-C-N	5.16	126.29	119.84
55	BX	31	HIS	C-N-CA	5.16	126.29	119.84
16	CP	74	LEU	N-CA-C	-5.16	107.37	113.97
51	BT	15	VAL	N-CA-C	5.16	115.69	108.89
2	CB	217	ARG	N-CA-C	-5.15	106.97	113.20
30	D5	40	LYS	N-CA-C	5.15	112.66	108.07
35	DA	1427	A	N9-C1'-C2'	5.15	121.72	114.00
58	CX	13	A	C4'-C3'-O3'	-5.15	105.28	113.00
12	AL	44	LYS	N-CA-C	5.14	121.18	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	DZ	122	ARG	N-CA-C	-5.14	106.27	113.37
35	BA	669	G	O4'-C4'-C3'	-5.14	100.96	106.10
2	AB	9	GLU	N-CA-C	5.14	116.57	110.97
8	AH	77	GLU	N-CA-C	-5.13	101.98	109.63
40	BF	65	TRP	N-CA-C	5.13	114.73	108.11
40	BF	85	GLY	N-CA-C	-5.13	109.02	114.67
17	AQ	62	SER	N-CA-C	5.13	115.31	108.38
50	DS	16	ASN	N-CA-C	-5.13	105.18	111.75
10	AJ	29	ARG	N-CA-C	-5.13	107.05	113.72
13	CM	81	LEU	N-CA-C	-5.13	106.12	112.38
35	BA	775	G	P-O5'-C5'	-5.13	113.21	120.90
24	AY	45	GLY	CA-C-O	-5.12	115.73	121.21
16	AP	74	LEU	N-CA-C	-5.12	107.41	113.97
42	DH	13	LYS	CB-CA-C	-5.12	99.73	109.66
51	DT	99	LEU	N-CA-C	5.12	118.40	112.97
5	AE	131	ILE	N-CA-C	-5.12	104.65	111.05
35	DA	614(C)	A	C2'-C3'-O3'	5.12	117.18	109.50
35	BA	2405	G	C4'-C3'-O3'	-5.12	105.33	113.00
58	CX	12	A	O4'-C1'-N9	5.11	115.87	108.20
42	BH	13	LYS	CB-CA-C	-5.11	99.74	109.66
1	AA	250	A	C2'-C3'-O3'	5.11	117.17	109.50
6	CF	20	ALA	N-CA-C	-5.11	105.80	111.36
41	BG	118	ARG	N-CA-C	-5.10	107.10	113.38
1	AA	839	U	N1-C1'-C2'	5.10	119.65	112.00
3	AC	21	ARG	N-CA-C	5.10	117.21	108.90
5	CE	23	GLY	N-CA-C	5.10	117.73	110.74
39	BE	118	LYS	N-CA-C	-5.10	105.61	111.07
8	CH	77	GLU	N-CA-C	-5.10	102.03	109.63
42	BH	12	PRO	CA-C-N	-5.09	114.25	122.81
42	BH	12	PRO	C-N-CA	-5.09	114.25	122.81
35	DA	2199	A	C5'-C4'-C3'	-5.09	108.36	116.00
45	BN	51	PHE	N-CA-C	-5.09	100.86	108.96
52	BU	81	HIS	N-CA-C	-5.09	105.86	111.71
54	DW	12	ILE	N-CA-C	-5.09	101.55	108.06
49	DR	6	SER	O-C-N	5.09	124.59	120.83
47	BP	50	ARG	CA-C-N	-5.08	113.76	123.32
47	BP	50	ARG	C-N-CA	-5.08	113.76	123.32
47	DP	91	PHE	N-CA-C	-5.08	103.77	110.43
7	CG	147	ALA	N-CA-C	-5.08	105.18	111.33
42	DH	86	GLU	N-CA-C	5.08	117.20	107.75
56	BY	13	VAL	N-CA-C	5.08	116.31	108.44
4	AD	114	ARG	N-CA-C	-5.08	105.87	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	CG	134	ALA	N-CA-C	-5.07	106.60	112.89
12	CL	44	LYS	N-CA-C	5.07	121.02	109.81
42	DH	12	PRO	CA-C-N	-5.07	114.29	122.81
42	DH	12	PRO	C-N-CA	-5.07	114.29	122.81
42	BH	86	GLU	N-CA-C	5.07	117.18	107.75
57	DZ	86	VAL	N-CA-C	5.07	116.59	108.89
17	CQ	62	SER	N-CA-C	5.06	115.21	108.38
47	BP	91	PHE	N-CA-C	-5.06	103.80	110.43
51	DT	70	VAL	CB-CA-C	-5.06	106.02	111.59
39	BE	58	ARG	N-CA-C	-5.06	106.70	112.92
35	BA	2720	U	C5'-C4'-C3'	-5.06	108.42	116.00
57	BZ	13	GLU	N-CA-C	5.05	117.00	108.96
2	AB	158	LEU	CA-C-N	5.05	126.16	119.84
2	AB	158	LEU	C-N-CA	5.05	126.16	119.84
49	DR	11	ASN	N-CA-C	5.05	121.87	113.89
24	AY	32	PRO	O-C-N	5.05	129.02	122.91
42	BH	7	LEU	CA-CB-CG	-5.05	98.63	116.30
55	BX	23	GLU	N-CA-C	-5.05	103.27	110.59
1	CA	266	G	C2'-C3'-O3'	5.05	121.27	113.70
35	BA	676	A	N9-C1'-C2'	5.04	119.57	112.00
35	BA	1313	U	N1-C1'-C2'	5.04	119.56	112.00
38	BD	146	GLU	N-CA-C	-5.04	103.74	110.55
35	DA	1300	U	O4'-C4'-C3'	5.04	109.04	104.00
42	DH	7	LEU	CA-CB-CG	-5.04	98.66	116.30
46	BO	30	ALA	N-CA-C	-5.04	102.92	110.23
38	DD	146	GLU	N-CA-C	-5.04	103.75	110.55
2	AB	217	ARG	N-CA-C	-5.04	107.11	113.20
39	DE	44	TYR	N-CA-C	5.04	122.29	114.64
49	DR	8	ARG	N-CA-C	5.04	121.53	110.80
24	AY	56	SER	N-CA-C	5.03	116.85	111.36
9	CI	36	TYR	N-CA-C	-5.03	105.98	112.68
58	CX	18	G	N9-C1'-C2'	5.03	119.55	112.00
45	DN	20	GLY	N-CA-C	-5.03	107.02	115.62
24	AY	38	GLY	N-CA-C	5.03	116.83	110.20
24	AY	51	ILE	N-CA-C	5.03	115.72	108.48
4	CD	9	CYS	N-CA-C	-5.03	107.12	113.20
58	CX	15	A	N9-C1'-C2'	-5.03	104.46	112.00
28	D3	48	GLU	N-CA-C	-5.03	105.45	111.03
35	DA	1332	G	C2'-C3'-O3'	5.03	117.04	109.50
51	BT	99	LEU	N-CA-C	5.02	118.29	112.97
24	AY	15	THR	CA-C-N	5.02	131.12	121.18
24	AY	15	THR	C-N-CA	5.02	131.12	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AX	10	G	C3'-C2'-O2'	5.01	118.22	110.70
12	AL	38	ARG	NE-CZ-NH1	5.01	126.51	121.50
24	AY	13	PRO	CB-CA-C	-5.01	103.29	111.56
35	DA	387	U	C4'-C3'-O3'	5.01	116.91	109.40
3	CC	21	ARG	N-CA-C	5.00	117.05	108.90
39	BE	137	HIS	N-CA-C	5.00	117.19	110.29
4	CD	203	VAL	N-CA-C	-5.00	105.04	112.04
51	DT	50	ILE	N-CA-C	5.00	117.34	111.09

All (42) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	575	G	C3'
35	BA	100	G	C1'
35	BA	474	G	C3'
35	BA	587	C	C3'
35	BA	669	G	C3',C4',C1'
35	BA	752	A	C3'
35	BA	945	A	C1'
35	BA	1300	U	C4'
35	BA	1379	A	C1'
35	BA	1484	G	C3'
35	BA	1694	C	C3',C4'
35	BA	1799	G	C3'
35	BA	1819	A	C3'
35	BA	1962	C	C4',C1'
35	BA	1992	G	C3'
35	BA	2286	A	C1'
35	BA	2796	U	C1'
1	CA	575	G	C3'
35	DA	100	G	C1'
35	DA	474	G	C3'
35	DA	587	C	C3'
35	DA	669	G	C3',C4',C1'
35	DA	752	A	C3'
35	DA	945	A	C1'
35	DA	1300	U	C4'
35	DA	1379	A	C1'
35	DA	1484	G	C3'
35	DA	1694	C	C3',C4'
35	DA	1799	G	C3'
35	DA	1819	A	C3'

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Mol	Chain	Res	Type	Atom
35	DA	1962	C	C4',C1'
35	DA	1992	G	C3'
35	DA	2286	A	C1'
35	DA	2796	U	C1'

All (157) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1077	G	Sidechain
1	AA	115	G	Sidechain
1	AA	120	A	Sidechain
1	AA	1406	U	Sidechain
1	AA	1502	A	Sidechain
1	AA	575	G	Sidechain
1	AA	587	G	Sidechain
1	AA	731	G	Sidechain
1	AA	760	G	Sidechain
1	AA	819	A	Sidechain
22	AV	4	G	Sidechain
24	AY	15	THR	Peptide
35	BA	1025	G	Sidechain
35	BA	1040	C	Sidechain
35	BA	1112	G	Sidechain
35	BA	114	U	Sidechain
35	BA	1191	G	Sidechain
35	BA	1192	G	Sidechain
35	BA	1193	G	Sidechain
35	BA	1215	G	Sidechain
35	BA	1271	G	Sidechain
35	BA	1288	U	Sidechain
35	BA	1397	U	Sidechain
35	BA	1418	G	Sidechain
35	BA	1425	G	Sidechain
35	BA	15	G	Sidechain
35	BA	1613	G	Sidechain
35	BA	1772	G	Sidechain
35	BA	1779	U	Sidechain
35	BA	1801	G	Sidechain
35	BA	1807	G	Sidechain
35	BA	2009	G	Sidechain
35	BA	201	C	Sidechain
35	BA	2010	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2020	A	Sidechain
35	BA	2022	U	Sidechain
35	BA	2031	A	Sidechain
35	BA	2360	A	Sidechain
35	BA	2413	G	Sidechain
35	BA	2427	C	Sidechain
35	BA	2434	A	Sidechain
35	BA	2464	C	Sidechain
35	BA	249	C	Sidechain
35	BA	2517	C	Sidechain
35	BA	2582	G	Sidechain
35	BA	2587	A	Sidechain
35	BA	2589	A	Sidechain
35	BA	2597	G	Sidechain
35	BA	2627	G	Sidechain
35	BA	27	G	Sidechain
35	BA	271(H)	G	Sidechain
35	BA	271(Q)	G	Sidechain
35	BA	271(Y)	U	Sidechain
35	BA	2746	U	Sidechain
35	BA	2779	U	Sidechain
35	BA	372	G	Sidechain
35	BA	384	U	Sidechain
35	BA	395	U	Sidechain
35	BA	446	G	Sidechain
35	BA	463	G	Sidechain
35	BA	476	G	Sidechain
35	BA	543	C	Sidechain
35	BA	607	U	Sidechain
35	BA	652	C	Sidechain
35	BA	669	G	Sidechain
35	BA	675	A	Sidechain
35	BA	792	G	Sidechain
35	BA	859	G	Sidechain
35	BA	938	G	Sidechain
36	BB	66	A	Sidechain
42	BH	7	LEU	Peptide
49	BR	87	TYR	Sidechain
1	CA	115	G	Sidechain
1	CA	120	A	Sidechain
1	CA	1498	U	Sidechain
1	CA	1522	U	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	324	G	Sidechain
1	CA	575	G	Sidechain
1	CA	587	G	Sidechain
1	CA	760	G	Sidechain
1	CA	819	A	Sidechain
22	CV	4	G	Sidechain
35	DA	1025	G	Sidechain
35	DA	1027	A	Sidechain
35	DA	1040	C	Sidechain
35	DA	1112	G	Sidechain
35	DA	1126	A	Sidechain
35	DA	1141	U	Sidechain
35	DA	1192	G	Sidechain
35	DA	1215	G	Sidechain
35	DA	125	G	Sidechain
35	DA	1271	G	Sidechain
35	DA	1288	U	Sidechain
35	DA	1354	A	Sidechain
35	DA	1391	U	Sidechain
35	DA	1393	A	Sidechain
35	DA	1397	U	Sidechain
35	DA	1418	G	Sidechain
35	DA	1425	G	Sidechain
35	DA	15	G	Sidechain
35	DA	1613	G	Sidechain
35	DA	177	G	Sidechain
35	DA	1772	G	Sidechain
35	DA	1773	A	Sidechain
35	DA	1779	U	Sidechain
35	DA	1788	C	Sidechain
35	DA	1801	G	Sidechain
35	DA	1807	G	Sidechain
35	DA	1833	U	Sidechain
35	DA	1968	G	Sidechain
35	DA	2009	G	Sidechain
35	DA	201	C	Sidechain
35	DA	2020	A	Sidechain
35	DA	2031	A	Sidechain
35	DA	2229	C	Sidechain
35	DA	2255	G	Sidechain
35	DA	2360	A	Sidechain
35	DA	2387	U	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	2427	C	Sidechain
35	DA	2434	A	Sidechain
35	DA	2462	U	Sidechain
35	DA	2464	C	Sidechain
35	DA	249	C	Sidechain
35	DA	2517	C	Sidechain
35	DA	254	G	Sidechain
35	DA	2582	G	Sidechain
35	DA	2587	A	Sidechain
35	DA	2589	A	Sidechain
35	DA	2597	G	Sidechain
35	DA	2627	G	Sidechain
35	DA	27	G	Sidechain
35	DA	271(H)	G	Sidechain
35	DA	271(Q)	G	Sidechain
35	DA	271(Y)	U	Sidechain
35	DA	2746	U	Sidechain
35	DA	372	G	Sidechain
35	DA	395	U	Sidechain
35	DA	463	G	Sidechain
35	DA	475	U	Sidechain
35	DA	476	G	Sidechain
35	DA	511	U	Sidechain
35	DA	52	A	Sidechain
35	DA	543	C	Sidechain
35	DA	607	U	Sidechain
35	DA	669	G	Sidechain
35	DA	675	A	Sidechain
35	DA	686	G	Sidechain
35	DA	726	G	Sidechain
35	DA	792	G	Sidechain
35	DA	801	G	Sidechain
35	DA	859	G	Sidechain
35	DA	938	G	Sidechain
36	DB	104	U	Sidechain
36	DB	66	A	Sidechain
42	DH	7	LEU	Peptide
49	DR	11	ASN	Peptide
49	DR	87	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	32412	0	16354	1308	0
1	CA	32413	0	16353	1704	0
2	AB	1901	0	1951	316	0
2	CB	1901	0	1951	323	0
3	AC	1613	0	1676	258	0
3	CC	1613	0	1677	247	0
4	AD	1692	0	1751	212	0
4	CD	1692	0	1753	230	0
5	AE	1147	0	1206	175	0
5	CE	1147	0	1207	196	0
6	AF	843	0	857	100	0
6	CF	843	0	857	103	0
7	AG	1257	0	1296	136	0
7	CG	1257	0	1296	150	0
8	AH	1116	0	1177	165	0
8	CH	1116	0	1177	175	0
9	AI	1011	0	1041	166	0
9	CI	1011	0	1041	170	0
10	AJ	795	0	840	157	0
10	CJ	795	0	840	159	0
11	AK	885	0	904	106	0
11	CK	885	0	904	103	0
12	AL	971	0	1055	123	0
12	CL	971	0	1056	122	0
13	AM	934	0	989	132	0
13	CM	934	0	987	145	0
14	AN	492	0	530	77	0
14	CN	492	0	533	81	0
15	AO	734	0	771	90	0
15	CO	734	0	771	81	0
16	AP	701	0	719	97	0
16	CP	701	0	720	108	0
17	AQ	824	0	890	95	0
17	CQ	824	0	891	95	0
18	AR	574	0	644	97	0
18	CR	574	0	644	96	0
19	AS	671	0	689	128	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	CS	671	0	689	122	0
20	AT	763	0	861	81	0
20	CT	763	0	861	81	0
21	AU	209	0	221	42	0
21	CU	209	0	221	40	0
22	AV	1640	0	832	85	0
22	AW	1640	0	837	60	0
22	CV	1640	0	833	134	0
22	CW	1640	0	837	71	0
23	AX	341	0	174	126	0
24	AY	769	0	763	238	0
24	CY	126	0	115	33	0
25	B0	662	0	688	61	0
25	D0	662	0	688	59	0
26	B1	734	0	808	88	0
26	D1	734	0	808	89	0
27	B2	598	0	653	66	0
27	D2	598	0	653	84	0
28	B3	468	0	523	44	0
28	D3	468	0	523	45	0
29	B4	434	0	424	96	0
29	D4	434	0	424	72	0
30	B5	459	0	480	46	0
30	D5	459	0	479	46	0
31	B6	381	0	390	62	0
31	D6	381	0	390	64	0
32	B7	419	0	467	33	0
32	D7	419	0	467	35	0
33	B8	508	0	576	128	0
33	D8	508	0	576	129	0
34	B9	299	0	326	27	0
34	D9	299	0	326	30	0
35	BA	60459	0	30475	1962	0
35	DA	60459	0	30466	2127	1
36	BB	2551	0	1295	102	0
36	DB	2551	0	1294	87	1
37	BC	1142	0	865	72	0
37	DC	1142	0	865	72	0
38	BD	2105	0	2182	308	0
38	DD	2105	0	2182	320	0
39	BE	1564	0	1628	235	0
39	DE	1564	0	1628	248	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	BF	1624	0	1677	232	0
40	DF	1624	0	1676	236	0
41	BG	1474	0	1534	297	0
41	DG	1474	0	1534	314	0
42	BH	1260	0	1326	258	0
42	DH	1260	0	1326	252	0
43	BI	1125	0	1209	184	0
43	DI	1125	0	1209	175	0
44	BJ	651	0	165	21	0
44	DJ	651	0	166	35	0
45	BN	1105	0	1180	149	0
45	DN	1105	0	1180	146	0
46	BO	933	0	996	109	0
46	DO	933	0	996	117	0
47	BP	1114	0	1187	326	0
47	DP	1114	0	1187	322	0
48	BQ	1122	0	1179	124	0
48	DQ	1122	0	1179	119	0
49	BR	960	0	1021	140	0
49	DR	960	0	1019	134	0
50	BS	771	0	832	151	0
50	DS	771	0	832	139	0
51	BT	1142	0	1202	233	0
51	DT	1142	0	1201	235	0
52	BU	958	0	1015	128	0
52	DU	958	0	1015	127	0
53	BV	779	0	852	166	0
53	DV	779	0	852	164	0
54	BW	896	0	953	84	0
54	DW	896	0	952	85	0
55	BX	726	0	778	72	0
55	DX	726	0	778	74	0
56	BY	776	0	870	198	0
56	DY	776	0	870	198	0
57	BZ	1482	0	1503	217	0
57	DZ	1482	0	1503	249	0
58	CX	173	0	89	52	0
59	AA	373	0	0	0	0
59	AC	2	0	0	0	0
59	AD	3	0	0	0	0
59	AH	1	0	0	0	0
59	AI	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	AL	6	0	0	0	0
59	AN	2	0	0	0	0
59	AO	2	0	0	0	0
59	AP	1	0	0	0	0
59	AQ	3	0	0	0	0
59	AT	1	0	0	0	0
59	AV	7	0	0	0	0
59	AX	4	0	0	0	0
59	AY	3	0	0	0	0
59	B0	2	0	0	0	0
59	B1	1	0	0	0	0
59	B5	3	0	0	0	0
59	B6	1	0	0	0	0
59	B7	1	0	0	0	0
59	BA	709	0	0	0	0
59	BB	6	0	0	0	0
59	BD	5	0	0	0	0
59	BE	4	0	0	0	0
59	BF	1	0	0	0	0
59	BH	4	0	0	0	0
59	BN	1	0	0	0	0
59	BO	1	0	0	0	0
59	BP	4	0	0	5	0
59	BQ	1	0	0	0	0
59	BR	5	0	0	0	0
59	BT	1	0	0	0	0
59	BU	2	0	0	0	0
59	BY	1	0	0	0	0
59	CA	184	0	0	0	0
59	CC	3	0	0	0	0
59	CD	1	0	0	0	0
59	CH	1	0	0	0	0
59	CJ	2	0	0	0	0
59	CM	3	0	0	0	0
59	CP	1	0	0	0	0
59	CQ	1	0	0	0	0
59	CS	2	0	0	0	0
59	CV	12	0	0	0	0
59	CY	1	0	0	0	0
59	D0	4	0	0	0	0
59	D1	2	0	0	0	0
59	D2	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	D3	1	0	0	0	0
59	D5	3	0	0	0	0
59	D6	2	0	0	0	0
59	D7	4	0	0	0	0
59	D8	1	0	0	0	0
59	D9	1	0	0	0	0
59	DA	897	0	0	0	0
59	DB	11	0	0	0	0
59	DD	6	0	0	0	0
59	DE	4	0	0	0	0
59	DF	3	0	0	0	0
59	DN	3	0	0	0	0
59	DO	1	0	0	0	0
59	DP	6	0	0	0	0
59	DR	2	0	0	0	0
59	DT	1	0	0	0	0
59	DU	4	0	0	0	0
59	DW	1	0	0	0	0
59	DY	1	0	0	0	0
60	AD	2	0	0	0	0
60	AN	1	0	0	0	0
60	CD	1	0	0	0	0
61	AA	2	0	0	0	0
All	All	296762	0	199834	20465	1

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

All (20465) 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)
3:AC:162:GLN:HB2	23:AX:23:A:C5	1.34	1.59
42:BH:11:VAL:HG22	42:BH:49:VAL:CG1	1.08	1.56
42:DH:11:VAL:HG22	42:DH:49:VAL:CG1	1.08	1.55
1:CA:644:G:C2'	1:CA:645:C:H5''	1.39	1.53
24:AY:57:GLN:HG3	35:BA:1913:A:C2	1.45	1.47
12:AL:41:THR:CG2	24:AY:7:HIS:HB3	1.44	1.47
35:DA:865:C:H4'	35:DA:866:A:N7	1.14	1.46
12:AL:38:ARG:NH2	24:AY:6:GLY:N	1.62	1.43
47:BP:59:LEU:CD1	59:BP:203:MG:MG	0.90	1.43
1:CA:644:G:H2'	1:CA:645:C:C5'	1.53	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:54:U:C3'	22:CV:55:U:H5''	1.51	1.37
24:AY:28:ILE:CD1	24:AY:29:PRO:HD2	1.55	1.36
42:BH:11:VAL:CG2	42:BH:49:VAL:CG1	2.03	1.36
1:CA:37:U:C2'	1:CA:38:G:H5'	1.53	1.36
35:DA:2473:U:C2'	35:DA:2474:C:H5''	1.54	1.35
35:DA:2473:U:C3'	35:DA:2474:C:H5''	1.54	1.35
24:AY:33:LYS:CB	24:AY:36:GLY:HA3	1.57	1.35
1:CA:401:C:P	4:CD:73:ARG:HH21	1.49	1.35
42:DH:11:VAL:CG2	42:DH:49:VAL:CG1	2.03	1.34
3:AC:162:GLN:CB	23:AX:23:A:C5	2.10	1.33
12:AL:38:ARG:NH2	24:AY:5:TYR:C	1.86	1.32
35:DA:2473:U:H5''	35:DA:2475:C:N4	1.44	1.32
35:DA:1914:C:H2'	35:DA:1915:U:C5'	1.57	1.32
24:CY:2:PHE:HD1	24:CY:2:PHE:O	1.02	1.31
3:AC:162:GLN:HB2	23:AX:23:A:N7	1.41	1.30
22:AV:54:U:H3'	22:AV:55:U:C5'	1.60	1.30
35:BA:774:A:C2'	35:BA:775:G:OP2	1.68	1.30
23:AX:21:C:H6	23:AX:21:C:C5'	1.45	1.30
58:CX:19:G:H5''	58:CX:19:G:N3	1.43	1.30
35:DA:2472:G:C3'	35:DA:2473:U:H5'	1.61	1.30
35:DA:2472:G:H3'	35:DA:2473:U:C5'	1.54	1.30
35:DA:1911:U:O2	35:DA:1918:A:C2	1.84	1.29
22:CV:54:U:H3'	22:CV:55:U:C5'	1.62	1.29
3:AC:162:GLN:CG	23:AX:23:A:N7	1.96	1.29
35:DA:865:C:O4'	35:DA:866:A:N6	1.64	1.29
35:DA:1911:U:C2	35:DA:1918:A:C2	2.20	1.28
49:DR:10:LEU:HD11	49:DR:17:ARG:CB	0.81	1.27
3:AC:162:GLN:CB	23:AX:23:A:N7	1.96	1.27
5:AE:15:ARG:NH1	23:AX:24:A:H5'	1.50	1.27
12:AL:41:THR:HG23	24:AY:7:HIS:CB	1.62	1.26
1:CA:401:C:C6	1:CA:401:C:H3'	1.61	1.26
24:AY:28:ILE:HD12	24:AY:29:PRO:CD	1.64	1.26
42:DH:52:VAL:O	42:DH:65:HIS:HE1	1.14	1.26
1:CA:940:C:O2'	1:CA:941:G:H5'	1.34	1.25
35:BA:1490:A:H5'	35:BA:1490:A:C8	1.72	1.24
35:DA:92:A:C2	35:DA:93:G:H1'	1.71	1.24
47:BP:59:LEU:HA	47:BP:61:ARG:NE	1.52	1.23
1:CA:1226:C:H5'	13:CM:96:LEU:CD2	1.68	1.23
23:AX:19:U:H2'	23:AX:20:U:C6	1.72	1.23
35:DA:865:C:C4'	35:DA:866:A:N7	2.02	1.22
35:DA:1910:G:C2'	35:DA:1911:U:H5'	1.70	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:76:CYS:SG	56:BY:77:PRO:HD2	1.78	1.22
1:CA:36:C:C2'	1:CA:37:U:H5'	1.69	1.21
42:DH:52:VAL:O	42:DH:65:HIS:CE1	1.93	1.21
42:BH:52:VAL:O	42:BH:65:HIS:HE1	1.14	1.21
35:DA:1911:U:N3	35:DA:1918:A:C2	2.08	1.21
56:DY:76:CYS:SG	56:DY:77:PRO:HD2	1.81	1.21
1:CA:1060:C:C5	3:CC:2:GLY:N	2.08	1.20
24:AY:33:LYS:HB3	24:AY:36:GLY:CA	1.71	1.20
58:CX:16:A:C2	58:CX:17:U:C6	2.30	1.20
1:CA:37:U:O2'	1:CA:38:G:H5'	1.41	1.20
42:BH:11:VAL:CG2	42:BH:49:VAL:HG12	1.70	1.20
35:DA:1915:U:C5	35:DA:1916:A:C8	2.30	1.20
23:AX:13:A:C5'	23:AX:14:A:H5''	1.70	1.19
42:BH:52:VAL:O	42:BH:65:HIS:CE1	1.93	1.19
47:DP:59:LEU:HA	47:DP:61:ARG:NE	1.56	1.19
3:AC:162:GLN:HB2	23:AX:23:A:C6	1.78	1.19
24:AY:33:LYS:CG	24:AY:36:GLY:HA3	1.71	1.19
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.07	1.18
24:CY:2:PHE:O	24:CY:2:PHE:CD1	1.95	1.18
24:AY:57:GLN:CG	35:BA:1913:A:C2	2.25	1.18
22:AV:54:U:H3'	22:AV:55:U:C4'	1.72	1.18
35:BA:774:A:H2'	35:BA:775:G:OP2	1.42	1.17
6:CF:18:GLN:HA	6:CF:21:LEU:HD23	1.24	1.17
35:DA:1911:U:C2	35:DA:1918:A:N1	2.12	1.17
24:AY:74:SER:C	24:AY:75:PHE:HD1	1.51	1.17
35:DA:92:A:C2	35:DA:93:G:C1'	2.28	1.17
8:AH:51:VAL:HG11	8:AH:60:ARG:HD3	1.26	1.17
42:BH:11:VAL:CG2	42:BH:49:VAL:HG11	1.68	1.17
1:CA:38:G:N2	1:CA:397:A:OP1	1.78	1.16
3:AC:162:GLN:N	23:AX:23:A:N6	1.94	1.16
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.20	1.16
53:DV:15:GLU:HB3	53:DV:16:PRO:HD2	1.25	1.16
23:AX:21:C:C5'	23:AX:21:C:C6	2.29	1.16
12:AL:41:THR:CG2	24:AY:7:HIS:CB	2.17	1.16
1:CA:836:G:O6	1:CA:837:G:O6	1.63	1.16
23:AX:21:C:C6	23:AX:21:C:H5''	1.82	1.15
22:CV:55:U:C4	22:CV:57:A:O5'	2.00	1.15
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.21	1.15
35:DA:507:A:H5''	35:DA:508:G:C5'	1.76	1.14
23:AX:19:U:H2'	23:AX:20:U:C5	1.79	1.14
35:BA:1490:A:C8	35:BA:1490:A:C5'	2.29	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:2:PHE:HD1	24:CY:2:PHE:C	1.55	1.14
52:DU:108:GLU:HG3	53:DV:44:LYS:HD3	1.27	1.14
56:DY:96:ILE:HB	56:DY:99:CYS:HB2	1.28	1.14
35:DA:865:C:H4'	35:DA:866:A:C5	1.81	1.14
47:DP:23:PRO:HB2	47:DP:33:ARG:CD	1.78	1.14
1:CA:401:C:OP1	4:CD:73:ARG:NH2	1.80	1.13
42:DH:11:VAL:CG2	42:DH:49:VAL:HG11	1.67	1.13
56:DY:28:LYS:NZ	56:DY:28:LYS:H	1.47	1.13
1:CA:10:A:O2'	1:CA:11:G:H5'	1.49	1.13
40:BF:9:ILE:HG13	40:BF:15:SER:HB3	1.31	1.13
56:BY:96:ILE:HB	56:BY:99:CYS:HB2	1.26	1.13
24:AY:82:GLN:O	24:AY:83:LEU:HD23	1.47	1.12
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.21	1.12
24:AY:21:LEU:HD12	24:AY:22:GLY:N	1.61	1.12
26:B1:3:LYS:HG3	26:B1:4:VAL:N	1.56	1.12
35:BA:612:C:H2'	35:BA:613:G:H5''	1.29	1.12
1:CA:37:U:H2'	1:CA:38:G:H5'	1.27	1.12
42:DH:11:VAL:CG2	42:DH:49:VAL:HG12	1.70	1.12
42:DH:85:LYS:HD3	42:DH:133:VAL:HB	1.28	1.12
1:CA:632:A:H2'	1:CA:633:G:H5''	1.30	1.12
23:AX:13:A:H5''	23:AX:14:A:H5''	1.27	1.11
47:BP:23:PRO:HB2	47:BP:33:ARG:CD	1.80	1.11
49:DR:4:LEU:O	49:DR:5:LYS:CB	1.98	1.11
35:BA:1528(A):A:N7	35:BA:1529:G:C8	2.18	1.11
22:CV:55:U:C5	22:CV:57:A:OP2	2.02	1.11
1:AA:613:C:H2'	1:AA:614:A:H5''	1.32	1.11
23:AX:23:A:H8	23:AX:23:A:H5''	1.14	1.11
35:BA:1533:G:H3'	35:BA:1543:C:OP2	1.48	1.11
1:CA:37:U:C2	1:CA:38:G:C8	2.38	1.11
35:DA:1543:C:C6	35:DA:1543:C:H3'	1.80	1.11
3:AC:162:GLN:OE1	23:AX:23:A:N7	1.84	1.11
53:BV:49:THR:HB	53:BV:50:PRO:HD2	1.33	1.11
19:CS:6:LYS:HE3	19:CS:6:LYS:H	1.09	1.11
22:AV:54:U:C3'	22:AV:55:U:H5''	1.81	1.10
1:CA:401:C:C6	1:CA:401:C:C3'	2.30	1.10
42:DH:16:SER:HB2	42:DH:27:LYS:HB3	1.33	1.10
57:DZ:151:HIS:HA	57:DZ:171:ILE:HG12	1.33	1.10
51:BT:83:ILE:HG13	51:BT:84:GLN:H	1.08	1.10
33:D8:59:LYS:HD3	47:DP:50:ARG:HB3	1.32	1.10
35:DA:612:C:H2'	35:DA:613:G:H5''	1.30	1.10
1:AA:1400:C:O2'	23:AX:19:U:H5	1.35	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:162:GLN:HG2	23:AX:23:A:C8	1.87	1.10
36:BB:7:G:H3'	36:BB:8:U:H5''	1.32	1.10
49:DR:10:LEU:HD11	49:DR:17:ARG:HB2	1.14	1.10
1:CA:1226:C:H5'	13:CM:96:LEU:HD21	1.14	1.10
35:DA:1914:C:C2'	35:DA:1915:U:C5'	2.30	1.10
36:DB:7:G:H3'	36:DB:8:U:H5''	1.32	1.10
23:AX:19:U:C2'	23:AX:20:U:C6	2.33	1.10
56:BY:28:LYS:HZ2	56:BY:28:LYS:N	1.48	1.10
8:CH:51:VAL:HG11	8:CH:60:ARG:HD3	1.26	1.10
35:DA:2833:G:H3'	35:DA:2834:G:H5'	1.34	1.10
24:AY:74:SER:C	24:AY:75:PHE:CD1	2.29	1.09
35:BA:1489:U:O3'	35:BA:1490:A:N7	1.85	1.09
56:BY:28:LYS:H	56:BY:28:LYS:NZ	1.48	1.09
35:DA:905:U:H2'	35:DA:906:G:H5''	1.28	1.09
40:DF:157:VAL:HG13	40:DF:194:MET:HB3	1.33	1.09
24:AY:49:ARG:C	24:AY:66:ALA:HB2	1.77	1.09
42:BH:8:PRO:HD2	42:BH:9:ILE:H	0.94	1.09
35:DA:90:U:H1'	35:DA:92:A:C8	1.87	1.09
35:DA:1914:C:H2'	35:DA:1915:U:H5''	1.34	1.09
23:AX:16:A:O2'	23:AX:17:U:H5'	1.52	1.09
24:CY:2:PHE:CD1	24:CY:2:PHE:C	2.27	1.09
35:DA:865:C:O4'	35:DA:866:A:C6	2.06	1.09
42:DH:98:LEU:HB2	42:DH:125:VAL:HG21	1.21	1.09
23:AX:16:A:O2'	23:AX:17:U:C5'	2.00	1.09
23:AX:24:A:H4'	23:AX:25:A:OP1	1.37	1.09
22:CV:55:U:H3	22:CV:57:A:H3'	1.00	1.09
35:DA:2473:U:C5'	35:DA:2475:C:H42	1.65	1.09
2:AB:177:ALA:HB1	2:AB:182:ILE:HB	1.35	1.09
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.34	1.09
53:BV:15:GLU:HB3	53:BV:16:PRO:HD2	1.24	1.08
22:AV:54:U:H3'	22:AV:55:U:H5''	1.17	1.08
42:BH:8:PRO:O	42:BH:9:ILE:HG23	1.51	1.08
36:DB:74:U:H2'	36:DB:75:G:H5''	1.35	1.08
50:DS:97:ARG:HH21	50:DS:98:VAL:HA	1.15	1.08
1:CA:4:U:O4'	1:CA:5:U:H5'	1.53	1.08
35:DA:2472:G:C5'	35:DA:2473:U:H5'	1.81	1.08
42:DH:8:PRO:O	42:DH:9:ILE:HG23	1.51	1.08
53:DV:49:THR:HB	53:DV:50:PRO:HD2	1.33	1.08
35:BA:905:U:H2'	35:BA:906:G:H5''	1.28	1.08
35:BA:1899:G:N2	35:BA:1902:C:H41	1.51	1.08
42:BH:85:LYS:HD3	42:BH:133:VAL:HB	1.27	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:867:C:H2'	35:DA:868:U:C5'	1.84	1.08
35:DA:868:U:C4	35:DA:869:G:N7	2.21	1.08
51:DT:83:ILE:HG13	51:DT:84:GLN:H	1.10	1.08
33:D8:25:MET:HG3	47:DP:64:LYS:HB3	1.35	1.08
35:DA:2473:U:H3'	35:DA:2474:C:C5'	1.83	1.07
35:DA:2491:U:H5'	35:DA:2570:G:H5''	1.36	1.07
3:AC:162:GLN:H	23:AX:23:A:N6	1.48	1.07
40:BF:157:VAL:HG13	40:BF:194:MET:HB3	1.30	1.07
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG12	1.32	1.07
1:CA:33:A:H2'	1:CA:34:C:H5''	1.20	1.07
35:DA:1914:C:H2'	35:DA:1915:U:H5'	1.18	1.07
41:DG:52:ILE:HG12	41:DG:53:LEU:H	1.16	1.07
24:AY:33:LYS:HB3	24:AY:36:GLY:N	1.67	1.07
24:AY:75:PHE:HD1	24:AY:75:PHE:N	1.52	1.07
33:B8:25:MET:HG3	47:BP:64:LYS:HB3	1.35	1.07
6:AF:18:GLN:HA	6:AF:21:LEU:HD23	1.23	1.07
52:BU:108:GLU:HG3	53:BV:44:LYS:HD3	1.24	1.07
35:DA:2473:U:C3'	35:DA:2474:C:C5'	2.31	1.07
3:AC:162:GLN:CD	23:AX:23:A:N7	2.12	1.07
33:B8:51:ALA:H	33:B8:53:PRO:HD2	1.18	1.07
35:BA:2833:G:H3'	35:BA:2834:G:H5'	1.35	1.07
12:CL:67:ILE:HG23	12:CL:97:ILE:HD12	1.37	1.07
11:AK:67:ASP:HA	11:AK:70:LYS:HE2	1.36	1.06
12:AL:38:ARG:NH2	24:AY:6:GLY:CA	2.18	1.06
47:BP:23:PRO:HB2	47:BP:33:ARG:HD2	1.34	1.06
2:CB:177:ALA:HB1	2:CB:182:ILE:HB	1.33	1.06
1:AA:632:A:H2'	1:AA:633:G:H5''	1.35	1.06
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.38	1.06
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.10	1.06
33:B8:59:LYS:HD3	47:BP:50:ARG:HB3	1.35	1.06
50:BS:97:ARG:HH21	50:BS:98:VAL:HA	1.14	1.06
33:D8:51:ALA:H	33:D8:53:PRO:HD2	1.18	1.06
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.17	1.06
1:CA:36:C:H2'	1:CA:37:U:C5'	1.84	1.06
40:DF:9:ILE:HG13	40:DF:15:SER:HB3	1.31	1.06
3:AC:76:VAL:HG21	3:AC:103:VAL:HG11	1.37	1.05
33:B8:49:VAL:HG23	33:B8:53:PRO:HD3	1.35	1.05
42:BH:16:SER:HB2	42:BH:27:LYS:HB3	1.33	1.05
35:DA:612:C:C2'	35:DA:613:G:H5''	1.86	1.05
42:DH:12:PRO:HB2	42:DH:15:VAL:HG21	1.37	1.05
42:BH:8:PRO:CD	42:BH:9:ILE:H	1.68	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:59:LEU:HD11	59:BP:203:MG:MG	0.78	1.05
1:CA:1071:C:H5''	5:CE:49:PRO:HG2	1.37	1.05
35:DA:1912:A:H2	35:DA:1919:A:C6	1.74	1.05
42:DH:8:PRO:HD2	42:DH:9:ILE:H	0.93	1.05
47:DP:23:PRO:HB2	47:DP:33:ARG:HD2	1.33	1.05
12:AL:67:ILE:HG23	12:AL:97:ILE:HD12	1.39	1.05
24:AY:33:LYS:CB	24:AY:36:GLY:CA	2.29	1.05
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.09	1.05
22:CV:55:U:C6	22:CV:57:A:OP2	2.10	1.05
27:D2:39:ALA:HA	27:D2:45:SER:HB3	1.36	1.05
33:D8:49:VAL:HG23	33:D8:53:PRO:HD3	1.37	1.05
35:DA:2394:C:OP1	47:DP:63:PRO:HD2	1.56	1.05
1:CA:1078:U:H1'	5:CE:130:ASN:HD21	1.20	1.05
31:D6:35:GLU:HB3	31:D6:51:GLU:HB3	1.38	1.05
40:DF:67:GLN:HG3	40:DF:67:GLN:O	1.54	1.05
35:BA:807:U:OP2	47:BP:39:LYS:HG3	1.57	1.04
35:BA:2394:C:OP1	47:BP:63:PRO:HD2	1.55	1.04
35:DA:2192:G:H2'	35:DA:2193:G:H5''	1.37	1.04
47:BP:38:GLN:HG3	47:BP:39:LYS:H	1.22	1.04
35:DA:867:C:H2'	35:DA:868:U:H5'	1.05	1.04
35:DA:2523:G:H2'	35:DA:2524:G:H5''	1.35	1.04
47:DP:38:GLN:HG3	47:DP:39:LYS:H	1.20	1.04
56:DY:28:LYS:N	56:DY:28:LYS:HZ2	1.54	1.04
35:BA:612:C:C2'	35:BA:613:G:H5''	1.87	1.04
11:CK:67:ASP:HA	11:CK:70:LYS:HE2	1.36	1.04
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.36	1.04
57:DZ:151:HIS:HB2	57:DZ:170:THR:HA	1.34	1.04
1:CA:4:U:H4'	1:CA:5:U:C5'	1.87	1.04
1:CA:4:U:H4'	1:CA:5:U:H5''	1.33	1.04
1:CA:4:U:H5''	4:CD:86:LYS:HD3	1.39	1.04
42:DH:7:LEU:N	42:DH:8:PRO:HA	1.71	1.04
1:AA:1152:A:H5'	10:AJ:70:ARG:HH22	1.20	1.04
23:AX:22:A:H5''	23:AX:22:A:N3	1.72	1.04
40:BF:67:GLN:O	40:BF:67:GLN:HG3	1.54	1.04
42:BH:12:PRO:HB2	42:BH:15:VAL:HG21	1.37	1.04
3:CC:76:VAL:HG21	3:CC:103:VAL:HG11	1.36	1.04
33:D8:51:ALA:N	33:D8:53:PRO:HD2	1.73	1.04
33:B8:4:MET:HE3	33:B8:61:LEU:HD13	1.39	1.03
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.35	1.03
35:DA:807:U:OP2	47:DP:39:LYS:HG3	1.54	1.03
35:DA:1910:G:H2'	35:DA:1911:U:H5'	1.34	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:59:ARG:HD3	37:DC:59:ARG:H	1.23	1.03
1:AA:1399:C:H4'	1:AA:1400:C:C5'	1.86	1.03
22:AV:56:C:H6	22:AV:56:C:O5'	1.41	1.03
22:AW:34:C:O2	23:AX:14:A:C2	2.10	1.03
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.33	1.03
35:DA:2473:U:H5''	35:DA:2475:C:H42	0.91	1.03
33:B8:51:ALA:N	33:B8:53:PRO:HD2	1.73	1.03
51:BT:13:ARG:HA	51:BT:13:ARG:NH1	1.73	1.03
41:BG:135:LEU:HD22	41:BG:155:MET:HE1	1.39	1.03
1:CA:178:C:H2'	1:CA:179:A:H5''	1.38	1.03
2:CB:178:ARG:O	8:CH:71:GLY:HA2	1.59	1.03
42:DH:8:PRO:CD	42:DH:9:ILE:H	1.68	1.03
50:BS:13:ARG:HG3	50:BS:14:VAL:H	1.24	1.03
35:DA:1899:G:N2	35:DA:1902:C:H41	1.55	1.03
55:DX:84:ALA:HB3	55:DX:87:GLN:HE21	1.22	1.03
57:DZ:4:ARG:HG2	57:DZ:58:VAL:HB	1.39	1.03
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.19	1.02
1:AA:1399:C:H4'	1:AA:1400:C:H5'	1.05	1.02
55:BX:84:ALA:HB3	55:BX:87:GLN:HE21	1.24	1.02
31:B6:35:GLU:HB3	31:B6:51:GLU:HB3	1.42	1.02
1:CA:1506:U:O4	1:CA:1521:G:H5''	1.60	1.02
15:CO:82:ILE:HG12	15:CO:87:ILE:HG13	1.39	1.02
35:DA:1912:A:H2	35:DA:1919:A:N6	1.55	1.02
42:BH:7:LEU:N	42:BH:8:PRO:HA	1.71	1.02
1:CA:4:U:C5'	4:CD:86:LYS:HD3	1.90	1.02
35:DA:1024:G:H3'	35:DA:1025:G:H5''	1.38	1.02
24:AY:28:ILE:HD12	24:AY:29:PRO:HD2	1.03	1.02
26:B1:3:LYS:CG	26:B1:4:VAL:H	1.73	1.02
35:BA:2192:G:H2'	35:BA:2193:G:H5''	1.38	1.02
35:BA:2491:U:H5'	35:BA:2570:G:H5''	1.37	1.02
42:BH:11:VAL:HG22	42:BH:49:VAL:HG12	1.02	1.02
47:BP:85:LEU:HA	47:BP:88:LEU:HD22	1.42	1.02
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.36	1.01
24:AY:64:TYR:CG	24:AY:92:ILE:HD13	1.95	1.01
35:BA:2068:U:N3	35:BA:2430:A:H2	1.57	1.01
1:CA:401:C:P	4:CD:73:ARG:NH2	2.30	1.01
1:CA:657:G:O2'	1:CA:658:G:H5'	1.61	1.01
3:AC:93:LYS:HZ3	3:AC:93:LYS:HB2	1.21	1.01
24:AY:33:LYS:HB3	24:AY:36:GLY:HA3	1.22	1.01
50:BS:97:ARG:NH2	50:BS:98:VAL:HA	1.76	1.01
35:DA:507:A:H5''	35:DA:508:G:H5''	1.07	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:34:C:O2	23:AX:14:A:H2	1.40	1.01
24:AY:96:LEU:HD13	24:AY:96:LEU:C	1.86	1.01
29:B4:52:THR:HG22	29:B4:53:GLU:H	1.24	1.01
47:BP:59:LEU:HA	47:BP:61:ARG:CZ	1.91	1.01
1:CA:36:C:H2'	1:CA:37:U:H5'	1.02	1.01
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.40	1.01
33:D8:62:LEU:HD13	35:DA:242:G:H5''	1.39	1.01
40:DF:24:LEU:HB3	40:DF:25:PRO:HD3	1.39	1.01
1:AA:178:C:H2'	1:AA:179:A:H5''	1.42	1.00
3:AC:162:GLN:CG	23:AX:23:A:C8	2.43	1.00
26:B1:3:LYS:HG3	26:B1:4:VAL:H	0.86	1.00
35:DA:2473:U:O2'	35:DA:2474:C:H5''	1.61	1.00
24:AY:23:ASP:O	24:AY:25:LYS:HG2	1.61	1.00
1:CA:1080:A:H5'	5:CE:14:ARG:NH2	1.76	1.00
22:CV:52:G:O2'	22:CV:53:G:H5'	1.59	1.00
35:DA:1914:C:C2'	35:DA:1915:U:H5''	1.90	1.00
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.41	1.00
38:DD:16:MET:HA	38:DD:205:VAL:HG12	1.40	1.00
24:AY:38:GLY:C	24:AY:39:LYS:HD2	1.84	1.00
35:BA:1490:A:H5'	35:BA:1490:A:N9	1.67	1.00
35:BA:1490:A:C8	35:BA:1490:A:P	2.55	1.00
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.43	1.00
36:BB:74:U:H2'	36:BB:75:G:H5''	1.37	1.00
38:BD:35:LYS:N	38:BD:36:PRO:HD2	1.72	1.00
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.60	1.00
35:DA:1912:A:C2	35:DA:1919:A:N6	2.29	1.00
41:BG:52:ILE:H	41:BG:52:ILE:HD13	1.27	1.00
42:DH:98:LEU:H	42:DH:125:VAL:HG11	1.27	1.00
1:CA:1225:A:C6	1:CA:1226:C:N4	2.30	1.00
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.06	1.00
50:DS:97:ARG:NH2	50:DS:98:VAL:HA	1.77	1.00
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.75	1.00
24:AY:21:LEU:CD1	24:AY:22:GLY:H	1.74	1.00
35:BA:1449:A:N3	35:BA:1529:G:H1'	1.76	1.00
3:CC:93:LYS:HZ3	3:CC:93:LYS:HB2	1.21	1.00
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.42	0.99
42:BH:98:LEU:H	42:BH:125:VAL:HG11	1.27	0.99
46:DO:2:ILE:HD11	46:DO:82:ASN:HD22	1.27	0.99
42:BH:8:PRO:HD2	42:BH:9:ILE:N	1.71	0.99
2:AB:17:PHE:HD1	2:AB:44:LEU:HD21	1.27	0.99
57:BZ:10:ARG:HB2	57:BZ:38:TYR:HB3	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:52:THR:HG22	29:D4:53:GLU:H	1.24	0.99
1:AA:1221:G:H4'	19:AS:77:THR:HG21	1.39	0.99
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.41	0.99
35:BA:1449:A:C2	35:BA:1529:G:H1'	1.97	0.99
38:BD:16:MET:HA	38:BD:205:VAL:HG12	1.45	0.99
39:BE:195:LEU:HD12	39:BE:196:VAL:N	1.78	0.99
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.27	0.99
38:DD:35:LYS:N	38:DD:36:PRO:HD2	1.71	0.99
41:DG:114:ILE:HG22	41:DG:116:ASP:H	1.26	0.99
3:AC:94:LEU:HD23	3:AC:94:LEU:H	1.26	0.99
35:DA:508:G:H4'	35:DA:509:C:OP2	1.60	0.99
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.41	0.99
42:BH:8:PRO:C	42:BH:9:ILE:HG23	1.86	0.99
57:BZ:24:LEU:HD11	57:BZ:86:VAL:HG23	1.43	0.99
1:CA:588:G:C6	1:CA:589:C:N4	2.30	0.99
1:AA:97:G:HO2'	1:AA:98:G:H8	1.10	0.99
24:AY:96:LEU:C	24:AY:96:LEU:CD1	2.33	0.99
1:CA:1506:U:O2'	1:CA:1507:A:H5'	1.62	0.99
23:AX:15:A:OP1	23:AX:15:A:H4'	1.59	0.99
23:AX:21:C:H2'	23:AX:22:A:H5''	1.41	0.99
39:DE:195:LEU:HD12	39:DE:196:VAL:N	1.77	0.99
46:DO:13:ASN:ND2	46:DO:97:ARG:HB2	1.78	0.99
1:CA:1221:G:H4'	19:CS:77:THR:HG21	1.43	0.98
2:CB:52:GLU:HG2	2:CB:56:ARG:HH12	1.27	0.98
35:DA:1912:A:C2	35:DA:1919:A:C6	2.50	0.98
23:AX:14:A:N1	23:AX:15:A:C2	2.31	0.98
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	1.93	0.98
35:DA:1915:U:C5	35:DA:1916:A:N7	2.30	0.98
42:DH:11:VAL:HG22	42:DH:49:VAL:HG12	1.02	0.98
47:DP:85:LEU:HA	47:DP:88:LEU:HD22	1.44	0.98
4:AD:76:ARG:HH11	4:AD:76:ARG:HB2	1.26	0.98
31:D6:11:LEU:HD12	31:D6:24:GLU:HB2	1.46	0.98
35:DA:271(M):G:H5''	43:DI:57:ARG:HH12	1.27	0.98
1:AA:1399:C:C4'	1:AA:1400:C:H5'	1.93	0.98
38:BD:31:LYS:HD2	38:BD:94:LEU:HD11	1.45	0.98
40:BF:24:LEU:HB3	40:BF:25:PRO:HD3	1.44	0.98
46:BO:13:ASN:ND2	46:BO:97:ARG:HB2	1.78	0.98
1:CA:4:U:C4'	1:CA:5:U:C5'	2.41	0.98
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.77	0.98
36:BB:20:C:H2'	36:BB:21:G:H5''	1.42	0.98
47:DP:59:LEU:HA	47:DP:61:ARG:CZ	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:21:C:H2'	23:AX:22:A:C5'	1.93	0.98
15:CO:54:ARG:HG2	15:CO:58:MET:HE2	1.45	0.98
19:CS:11:VAL:HG22	19:CS:12:ASP:H	1.28	0.98
50:DS:13:ARG:HG3	50:DS:14:VAL:H	1.24	0.98
51:DT:53:ARG:HB2	51:DT:53:ARG:HH11	1.28	0.98
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.46	0.98
35:DA:905:U:C2'	35:DA:906:G:H5''	1.94	0.98
41:DG:124:SER:HB2	41:DG:131:TYR:CE1	1.97	0.98
47:DP:126:VAL:HG12	47:DP:148:LEU:HD11	1.46	0.98
23:AX:21:C:C2'	23:AX:22:A:H5''	1.93	0.98
24:AY:21:LEU:HD12	24:AY:22:GLY:H	0.81	0.98
19:CS:36:ARG:HA	19:CS:71:LEU:HB2	1.46	0.98
35:DA:2068:U:N3	35:DA:2430:A:H2	1.61	0.98
15:AO:82:ILE:HG12	15:AO:87:ILE:HG13	1.43	0.97
1:CA:735:C:H2'	1:CA:736:C:H6	1.28	0.97
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.28	0.97
35:BA:271(M):G:H5''	43:BI:57:ARG:HH12	1.28	0.97
1:CA:1060:C:C5	3:CC:2:GLY:CA	2.47	0.97
49:DR:4:LEU:O	49:DR:5:LYS:HB2	1.16	0.97
56:DY:95:LYS:NZ	56:DY:99:CYS:H	1.61	0.97
1:CA:37:U:H2'	1:CA:38:G:C5'	1.94	0.97
47:DP:146:VAL:HG22	47:DP:147:LEU:H	1.28	0.97
15:AO:54:ARG:HG2	15:AO:58:MET:HE2	1.47	0.97
37:BC:59:ARG:HD3	37:BC:59:ARG:H	1.23	0.97
51:BT:28:VAL:HG22	51:BT:46:GLU:HA	1.44	0.97
31:D6:11:LEU:HD21	31:D6:51:GLU:HB2	1.47	0.97
28:B3:3:ARG:HB2	28:B3:3:ARG:HH11	1.30	0.97
47:BP:126:VAL:HG12	47:BP:148:LEU:HD11	1.44	0.97
47:BP:146:VAL:HG22	47:BP:147:LEU:H	1.30	0.97
35:DA:1914:C:O2	35:DA:1914:C:H5'	1.64	0.97
35:BA:776:G:C8	35:BA:776:G:H5''	1.99	0.97
1:CA:400:C:C2'	1:CA:401:C:H5'	1.95	0.97
22:AV:23:C:H2'	22:AV:24:U:C6	1.99	0.97
24:AY:33:LYS:HG3	24:AY:36:GLY:HA3	1.43	0.97
1:CA:1152:A:H5'	10:CJ:70:ARG:HH22	1.29	0.97
2:CB:96:ARG:HD2	2:CB:96:ARG:H	1.30	0.97
35:DA:865:C:C4'	35:DA:866:A:C5	2.46	0.97
38:DD:31:LYS:HD2	38:DD:94:LEU:HD11	1.44	0.97
36:DB:20:C:H2'	36:DB:21:G:H5''	1.44	0.97
8:CH:5:PRO:HG2	8:CH:6:ILE:HD12	1.46	0.96
58:CX:16:A:N3	58:CX:17:U:C6	2.32	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:8:PRO:HD2	42:DH:9:ILE:N	1.71	0.96
5:AE:15:ARG:HH11	23:AX:24:A:H5'	1.15	0.96
2:CB:17:PHE:HD1	2:CB:44:LEU:HD21	1.27	0.96
35:DA:2472:G:C4'	35:DA:2473:U:H5'	1.95	0.96
35:DA:676:A:H8	35:DA:2069:G:H21	0.97	0.96
35:BA:905:U:C2'	35:BA:906:G:H5''	1.94	0.96
35:DA:630:G:N2	35:DA:633:A:OP2	1.97	0.96
51:DT:13:ARG:NH1	51:DT:13:ARG:HA	1.78	0.96
42:BH:13:LYS:HG3	42:BH:14:GLY:N	1.79	0.96
3:CC:94:LEU:H	3:CC:94:LEU:HD23	1.25	0.96
35:DA:2474:C:O2	35:DA:2474:C:H2'	1.65	0.96
46:BO:2:ILE:HD11	46:BO:82:ASN:HD22	1.24	0.96
22:CW:55:U:H2'	22:CW:56:C:H5''	1.43	0.96
23:AX:21:C:C2'	23:AX:22:A:C5'	2.43	0.96
35:BA:676:A:H8	35:BA:2069:G:H21	0.97	0.96
35:BA:2091:U:H3'	35:BA:2092:U:H5''	1.47	0.96
1:CA:34:C:H2'	1:CA:35:G:H5'	1.47	0.96
9:CI:28:VAL:HG13	9:CI:63:ILE:O	1.65	0.96
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.28	0.96
35:DA:2833:G:H3'	35:DA:2834:G:C5'	1.95	0.96
51:BT:35:LYS:HE2	51:BT:41:ARG:HE	1.25	0.96
1:CA:1226:C:C5'	13:CM:96:LEU:CD2	2.43	0.96
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.27	0.96
51:BT:56:GLY:O	51:BT:59:THR:HG22	1.66	0.96
4:CD:76:ARG:HB2	4:CD:76:ARG:HH11	1.28	0.96
35:BA:1529:G:C6	35:BA:1530:C:N4	2.34	0.96
1:CA:37:U:C2'	1:CA:38:G:C5'	2.44	0.96
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.48	0.96
35:DA:1346:G:H2'	35:DA:1347:G:H5''	1.46	0.96
35:DA:2472:G:H3'	35:DA:2473:U:H5'	1.15	0.96
23:AX:21:C:H6	23:AX:21:C:O5'	1.47	0.95
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.46	0.95
42:DH:8:PRO:C	42:DH:9:ILE:HG23	1.86	0.95
35:BA:2833:G:H3'	35:BA:2834:G:C5'	1.95	0.95
45:BN:57:ALA:H	45:BN:124:ALA:HA	1.29	0.95
42:DH:7:LEU:N	42:DH:7:LEU:CD1	2.29	0.95
1:AA:1400:C:O2'	23:AX:19:U:C5	2.19	0.95
47:BP:7:ARG:NH1	47:BP:7:ARG:HA	1.81	0.95
22:CV:55:U:O2	22:CV:57:A:C8	2.19	0.95
42:DH:11:VAL:HG22	42:DH:49:VAL:HG11	0.95	0.95
42:DH:13:LYS:HG3	42:DH:14:GLY:N	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:133:ARG:HB2	48:DQ:133:ARG:HH11	1.30	0.95
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.66	0.95
58:CX:19:G:N3	58:CX:19:G:C5'	2.29	0.95
35:DA:145:G:H2'	35:DA:146:G:H5''	1.46	0.95
42:BH:11:VAL:HG22	42:BH:49:VAL:HG11	0.96	0.95
22:CV:23:C:H2'	22:CV:24:U:H6	1.30	0.95
47:DP:13:ASN:C	47:DP:13:ASN:HD22	1.74	0.95
47:BP:59:LEU:HA	47:BP:61:ARG:HE	1.18	0.95
51:DT:35:LYS:HE2	51:DT:41:ARG:HE	1.27	0.95
26:B1:45:ASN:HD21	35:BA:2090:G:H21	0.99	0.95
35:BA:774:A:H2	35:BA:787:U:HO2'	1.00	0.95
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.82	0.95
13:CM:2:ALA:HB3	13:CM:9:ILE:HG23	1.49	0.95
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	1.95	0.95
10:CJ:5:ARG:HB3	10:CJ:99:LYS:HB2	1.48	0.95
35:DA:1911:U:C2	35:DA:1918:A:C6	2.47	0.95
2:AB:52:GLU:HG2	2:AB:56:ARG:HH12	1.28	0.94
19:AS:11:VAL:HG22	19:AS:12:ASP:H	1.29	0.94
19:AS:36:ARG:HA	19:AS:71:LEU:HB2	1.46	0.94
23:AX:22:A:N3	23:AX:22:A:C5'	2.29	0.94
3:CC:141:VAL:HG11	3:CC:202:ILE:HD12	1.48	0.94
33:D8:4:MET:HE3	33:D8:61:LEU:HD13	1.49	0.94
35:DA:1592:C:C2'	35:DA:1593:G:H5''	1.96	0.94
57:DZ:96:VAL:HG22	57:DZ:97:GLU:H	1.30	0.94
4:AD:199:ASN:HD22	4:AD:202:LEU:HG	1.31	0.94
22:AV:53:G:C2	22:AV:62:C:O2	2.20	0.94
31:B6:11:LEU:HD12	31:B6:24:GLU:HB2	1.46	0.94
47:DP:7:ARG:NH1	47:DP:7:ARG:HA	1.82	0.94
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.47	0.94
16:AP:73:LEU:H	16:AP:73:LEU:HD12	1.29	0.94
1:CA:1060:C:C6	3:CC:2:GLY:HA2	2.02	0.94
24:AY:64:TYR:CB	24:AY:92:ILE:CD1	2.45	0.94
24:AY:64:TYR:CB	24:AY:92:ILE:HD13	1.97	0.94
35:BA:1346:G:H2'	35:BA:1347:G:H5''	1.45	0.94
1:CA:613:C:H2'	1:CA:614:A:H5''	1.50	0.94
24:AY:49:ARG:O	24:AY:66:ALA:HB2	1.66	0.94
8:AH:20:TYR:HA	8:AH:65:TYR:HE2	1.33	0.94
35:DA:145:G:C2'	35:DA:146:G:H5''	1.98	0.94
35:DA:2473:U:H3'	35:DA:2474:C:H5''	1.44	0.94
45:DN:57:ALA:H	45:DN:124:ALA:HA	1.32	0.94
1:AA:736:C:H2'	1:AA:737:A:C8	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:8:LYS:HA	2:AB:217:ARG:HH22	1.33	0.94
4:AD:76:ARG:HB2	4:AD:76:ARG:NH1	1.83	0.94
22:AW:64:G:H2'	22:AW:65:C:H4'	1.50	0.94
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.49	0.94
35:BA:1915:U:H2'	35:BA:1916:A:H5''	1.50	0.94
42:BH:12:PRO:HB2	42:BH:15:VAL:CG2	1.98	0.94
47:BP:24:GLY:CA	59:BP:202:MG:MG	1.39	0.94
1:CA:1060:C:H5	3:CC:2:GLY:N	1.54	0.94
51:DT:28:VAL:HG22	51:DT:46:GLU:HA	1.45	0.94
43:BI:81:VAL:HG12	43:BI:89:TYR:HB3	1.49	0.94
3:CC:3:ASN:H	3:CC:3:ASN:HD22	1.11	0.94
1:AA:735:C:H2'	1:AA:736:C:H6	1.29	0.94
33:B8:14:VAL:HG23	33:B8:24:ALA:HB2	1.50	0.94
43:BI:61:ARG:HD3	43:BI:61:ARG:H	1.32	0.94
29:D4:42:PHE:HD1	29:D4:43:TYR:H	1.09	0.94
24:AY:82:GLN:HG2	24:AY:83:LEU:N	1.83	0.93
48:BQ:133:ARG:HB2	48:BQ:133:ARG:HH11	1.31	0.93
1:CA:1226:C:C5'	13:CM:96:LEU:HD21	1.98	0.93
10:CJ:24:VAL:HG22	10:CJ:72:VAL:HG11	1.47	0.93
23:AX:23:A:H5''	23:AX:23:A:C8	2.03	0.93
35:BA:145:G:C2'	35:BA:146:G:H5''	1.98	0.93
1:CA:1531:A:H2'	1:CA:1532:U:H5''	1.49	0.93
35:DA:2392:A:H2	35:DA:2424:C:H42	1.14	0.93
51:DT:91:ARG:HB3	51:DT:116:ALA:HA	1.49	0.93
23:AX:21:C:HO2'	23:AX:22:A:H2	1.01	0.93
24:AY:44:THR:HA	24:AY:50:LYS:O	1.67	0.93
1:AA:34:C:H5'	1:AA:34:C:H6	1.29	0.93
39:DE:111:ARG:HD2	39:DE:160:TYR:CD1	2.04	0.93
35:BA:145:G:H2'	35:BA:146:G:H5''	1.50	0.93
35:BA:1346:G:C2'	35:BA:1347:G:H5''	1.98	0.93
47:BP:13:ASN:C	47:BP:13:ASN:HD22	1.74	0.93
41:DG:121:ASN:HD22	41:DG:122:PRO:HD2	1.31	0.93
3:AC:141:VAL:HG11	3:AC:202:ILE:HD12	1.51	0.93
4:AD:110:PHE:HD1	4:AD:110:PHE:H	1.16	0.93
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.51	0.93
23:AX:19:U:H2'	23:AX:20:U:H6	1.31	0.93
12:CL:41:THR:HG23	24:CY:7:HIS:HA	1.47	0.93
35:BA:1592:C:C2'	35:BA:1593:G:H5''	1.99	0.93
38:BD:239:ARG:HH21	38:BD:239:ARG:HG2	1.32	0.93
42:BH:7:LEU:N	42:BH:7:LEU:CD1	2.29	0.93
42:BH:13:LYS:CG	42:BH:14:GLY:N	2.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:3:ARG:HB2	28:D3:3:ARG:HH11	1.30	0.93
35:DA:2320:A:H1'	35:DA:2321:G:C6	2.03	0.93
53:DV:38:LEU:O	53:DV:39:LEU:HD13	1.68	0.93
2:AB:96:ARG:H	2:AB:96:ARG:HD2	1.33	0.93
24:AY:64:TYR:HB2	24:AY:92:ILE:CD1	1.99	0.93
42:BH:10:PRO:HG2	42:BH:10:PRO:O	1.65	0.93
56:BY:14:LEU:HD11	56:BY:22:GLY:HA2	1.50	0.93
22:CV:54:U:C3'	22:CV:55:U:C5'	2.33	0.93
43:DI:81:VAL:HG12	43:DI:89:TYR:HB3	1.48	0.93
24:AY:96:LEU:O	24:AY:96:LEU:HD12	1.68	0.93
33:B8:59:LYS:HZ3	33:B8:59:LYS:HB2	1.32	0.93
35:BA:2681:C:H5	35:BA:2725:A:H62	1.09	0.93
4:CD:199:ASN:HD22	4:CD:202:LEU:HG	1.30	0.93
29:D4:24:THR:HG22	29:D4:25:TYR:H	1.32	0.93
42:DH:13:LYS:CG	42:DH:14:GLY:N	2.32	0.93
9:AI:19:LEU:HD23	9:AI:61:ALA:HB2	1.51	0.92
10:AJ:5:ARG:HB3	10:AJ:99:LYS:HB2	1.49	0.92
42:BH:8:PRO:O	42:BH:9:ILE:HD13	1.69	0.92
2:CB:179:LYS:HA	8:CH:72:PRO:HD3	1.49	0.92
38:DD:125:ILE:HD12	38:DD:137:PRO:HD3	1.51	0.92
40:DF:84:VAL:HG12	40:DF:85:GLY:N	1.83	0.92
48:BQ:63:LYS:HD2	57:BZ:175:VAL:HG21	1.48	0.92
35:DA:2681:C:H5	35:DA:2725:A:H62	1.14	0.92
10:AJ:24:VAL:HG22	10:AJ:72:VAL:HG11	1.50	0.92
29:B4:12:ALA:HA	29:B4:29:PRO:HG3	1.51	0.92
43:BI:82:ARG:HD3	43:BI:82:ARG:H	1.33	0.92
51:BT:53:ARG:HB2	51:BT:53:ARG:HH11	1.31	0.92
56:BY:7:VAL:HB	56:BY:8:LYS:HD2	1.49	0.92
6:CF:36:ARG:HB3	6:CF:36:ARG:HH11	1.33	0.92
16:CP:73:LEU:HD12	16:CP:73:LEU:H	1.34	0.92
24:AY:38:GLY:C	24:AY:39:LYS:CD	2.42	0.92
31:B6:11:LEU:HD21	31:B6:51:GLU:HB2	1.47	0.92
35:BA:2392:A:H2	35:BA:2424:C:H42	1.13	0.92
1:AA:613:C:C2'	1:AA:614:A:H5''	1.99	0.92
42:DH:10:PRO:HG2	42:DH:10:PRO:O	1.65	0.92
3:AC:34:LEU:HB2	3:AC:38:ARG:HH21	1.35	0.92
41:BG:52:ILE:HG12	41:BG:53:LEU:H	1.35	0.92
51:BT:83:ILE:HG13	51:BT:84:GLN:N	1.84	0.92
57:BZ:103:ARG:HH11	57:BZ:136:PHE:HB3	1.32	0.92
35:DA:1846:G:H5'	35:DA:1847:A:OP2	1.68	0.92
47:DP:59:LEU:HA	47:DP:61:ARG:HE	1.21	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:36:ARG:HH11	6:AF:36:ARG:HB3	1.34	0.92
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.04	0.92
56:BY:95:LYS:NZ	56:BY:99:CYS:H	1.67	0.92
42:DH:12:PRO:HB2	42:DH:15:VAL:CG2	1.98	0.92
12:AL:107:VAL:HG21	12:AL:117:TYR:HD2	1.35	0.92
35:BA:902:C:H2'	35:BA:903:C:C6	2.05	0.92
9:CI:19:LEU:HD23	9:CI:61:ALA:HB2	1.49	0.92
42:DH:158:HIS:NE2	42:DH:170:ARG:HA	1.85	0.92
9:AI:28:VAL:HG13	9:AI:63:ILE:O	1.69	0.92
24:AY:57:GLN:CG	35:BA:1913:A:N3	2.31	0.92
29:B4:42:PHE:HD1	29:B4:43:TYR:H	1.09	0.92
33:B8:25:MET:HG3	47:BP:64:LYS:CB	1.99	0.92
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	1.70	0.92
1:CA:736:C:H2'	1:CA:737:A:C8	2.03	0.92
35:DA:902:C:H2'	35:DA:903:C:C6	2.04	0.92
35:DA:2091:U:H3'	35:DA:2092:U:H5''	1.51	0.92
26:B1:73:LEU:HD13	26:B1:94:LEU:HD22	1.50	0.92
57:BZ:35:ARG:NE	57:BZ:35:ARG:HA	1.82	0.92
39:DE:203:LYS:HE3	39:DE:204:ALA:HB2	1.51	0.92
35:BA:2127:G:H5'	37:BC:36:LYS:HB2	1.52	0.91
36:BB:57:A:H1'	41:BG:29:TRP:O	1.70	0.91
39:BE:203:LYS:HE3	39:BE:204:ALA:HB2	1.51	0.91
47:BP:59:LEU:CA	47:BP:61:ARG:HE	1.81	0.91
2:CB:8:LYS:HA	2:CB:217:ARG:HH22	1.33	0.91
12:CL:107:VAL:HG21	12:CL:117:TYR:HD2	1.35	0.91
42:DH:7:LEU:N	42:DH:8:PRO:CA	2.29	0.91
5:AE:15:ARG:HH11	23:AX:24:A:C5'	1.83	0.91
13:AM:2:ALA:HB3	13:AM:9:ILE:HG23	1.49	0.91
40:BF:192:LEU:HD21	40:BF:194:MET:HE2	1.52	0.91
57:BZ:151:HIS:HB2	57:BZ:170:THR:HA	1.50	0.91
8:AH:5:PRO:HG2	8:AH:6:ILE:HD12	1.50	0.91
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.51	0.91
29:B4:24:THR:HG22	29:B4:25:TYR:H	1.33	0.91
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.38	0.91
24:AY:28:ILE:CG1	24:AY:29:PRO:HD2	2.01	0.91
42:BH:41:MET:HA	42:BH:41:MET:HE3	1.52	0.91
5:CE:81:GLU:HG2	5:CE:90:VAL:HG22	1.53	0.91
35:BA:2305:A:H3'	35:BA:2306:C:H5''	1.52	0.91
1:CA:736:C:H2'	1:CA:737:A:H8	1.33	0.91
4:CD:110:PHE:H	4:CD:110:PHE:HD1	1.18	0.91
22:CV:55:U:C4	22:CV:57:A:P	2.63	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2127:G:H5'	37:DC:36:LYS:HB2	1.52	0.91
43:DI:82:ARG:HD3	43:DI:82:ARG:H	1.34	0.91
42:BH:7:LEU:N	42:BH:8:PRO:CA	2.29	0.91
1:CA:34:C:H2'	1:CA:35:G:C5'	2.00	0.91
1:CA:1401:G:OP1	58:CX:19:G:N2	2.03	0.91
7:CG:80:VAL:HG12	7:CG:81:GLY:H	1.34	0.91
35:DA:2192:G:C2'	35:DA:2193:G:H5''	2.00	0.91
40:BF:22:ALA:O	40:BF:26:ALA:HB2	1.71	0.91
2:CB:196:LEU:HD12	2:CB:197:VAL:HG13	1.53	0.91
4:CD:76:ARG:HB2	4:CD:76:ARG:NH1	1.85	0.91
45:DN:133:GLN:HG2	45:DN:134:ARG:H	1.33	0.91
47:DP:59:LEU:CA	47:DP:61:ARG:HE	1.84	0.91
22:AV:54:U:C5'	22:AV:55:U:H5''	2.01	0.91
33:B8:48:PHE:O	33:B8:49:VAL:HG22	1.70	0.91
35:BA:1771:C:HO2'	35:BA:1786:A:H8	1.01	0.91
38:BD:79:VAL:HG21	38:BD:111:LEU:HD11	1.51	0.91
33:D8:59:LYS:HZ3	33:D8:59:LYS:HB2	1.34	0.91
47:DP:18:ARG:HB3	47:DP:18:ARG:NH1	1.86	0.91
35:BA:83:G:H22	35:BA:102:G:H2'	1.35	0.91
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.33	0.91
42:BH:158:HIS:NE2	42:BH:170:ARG:HA	1.85	0.91
49:BR:98:LEU:HB2	49:BR:113:LEU:HD21	1.53	0.91
51:BT:80:SER:HB3	51:BT:81:PRO:HD3	1.53	0.91
22:CV:33:U:C2	22:CV:35:A:H5'	2.06	0.91
22:CW:9:G:H1'	22:CW:45:G:O2'	1.70	0.91
35:DA:774:A:H2	35:DA:787:U:HO2'	0.96	0.90
35:DA:2305:A:H3'	35:DA:2306:C:H5''	1.51	0.90
10:AJ:40:LEU:HB3	10:AJ:41:PRO:HD2	1.51	0.90
41:BG:32:PRO:HA	41:BG:162:THR:HB	1.51	0.90
47:BP:18:ARG:HB3	47:BP:18:ARG:NH1	1.85	0.90
51:BT:91:ARG:HB3	51:BT:116:ALA:HA	1.50	0.90
4:CD:114:ARG:HG3	4:CD:114:ARG:HH11	1.34	0.90
38:DD:35:LYS:H	38:DD:36:PRO:HD2	1.34	0.90
39:DE:77:ILE:HG22	39:DE:78:LEU:H	1.36	0.90
42:DH:8:PRO:O	42:DH:9:ILE:HD13	1.69	0.90
57:DZ:29:TYR:HB3	57:DZ:34:ASN:HD22	1.36	0.90
29:B4:56:VAL:HG13	29:B4:57:GLU:H	1.36	0.90
35:BA:1846:G:H5'	35:BA:1847:A:OP2	1.71	0.90
1:CA:645:C:H5'	1:CA:645:C:H6	1.34	0.90
22:CV:55:U:C2	22:CV:57:A:C8	2.59	0.90
56:DY:14:LEU:HD11	56:DY:22:GLY:HA2	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:736:C:H2'	1:AA:737:A:H8	1.36	0.90
51:DT:83:ILE:HG13	51:DT:84:GLN:N	1.86	0.90
1:AA:801:U:H2'	1:AA:802:A:H8	1.36	0.90
7:AG:80:VAL:HG12	7:AG:81:GLY:H	1.34	0.90
57:BZ:63:ASP:HB2	57:BZ:65:GLN:HE21	1.36	0.90
1:CA:37:U:C4	1:CA:38:G:N7	2.38	0.90
35:DA:1902:C:O2'	38:DD:244:ARG:HB2	1.70	0.90
37:DC:191:ALA:HA	37:DC:195:ALA:HB3	1.53	0.90
1:CA:4:U:OP1	4:CD:86:LYS:HD3	1.71	0.90
35:DA:64:A:H5'	55:DX:64:LYS:HE2	1.53	0.90
35:BA:2192:G:C2'	35:BA:2193:G:H5''	2.01	0.90
51:BT:60:THR:HG22	51:BT:77:PRO:HA	1.53	0.90
22:CV:36:U:H2'	22:CV:37:A:C4'	2.01	0.90
22:CV:55:U:N3	22:CV:57:A:H3'	1.85	0.90
35:DA:90:U:C1'	35:DA:92:A:C8	2.54	0.90
35:DA:271(O):C:O2'	35:DA:271(P):C:H5'	1.72	0.90
12:AL:41:THR:HB	24:AY:9:TYR:HE2	1.37	0.90
35:BA:1530:C:H1'	35:BA:1531:C:H5'	1.53	0.90
45:BN:133:GLN:HG2	45:BN:134:ARG:H	1.34	0.90
7:CG:25:ALA:HA	7:CG:28:ASN:HD22	1.34	0.90
35:DA:2473:U:C2'	35:DA:2474:C:C5'	2.48	0.90
56:DY:95:LYS:HZ2	56:DY:99:CYS:H	1.18	0.90
38:DD:239:ARG:HG2	38:DD:239:ARG:HH21	1.37	0.90
50:BS:99:LYS:H	50:BS:99:LYS:HD2	1.36	0.90
1:CA:673:G:H2'	1:CA:674:G:C8	2.07	0.90
22:CV:23:C:H2'	22:CV:24:U:C6	2.07	0.90
49:DR:7:GLY:O	49:DR:8:ARG:HG3	1.71	0.90
4:AD:114:ARG:HH11	4:AD:114:ARG:HG3	1.37	0.89
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.01	0.89
38:BD:35:LYS:O	38:BD:37:LEU:N	2.05	0.89
57:BZ:102:LEU:HG	57:BZ:123:ASP:HA	1.52	0.89
1:CA:10:A:C2'	1:CA:11:G:H5'	2.01	0.89
6:CF:52:ILE:HD13	6:CF:87:ARG:HH12	1.36	0.89
29:D4:12:ALA:HA	29:D4:29:PRO:HG3	1.51	0.89
33:D8:25:MET:HG3	47:DP:64:LYS:CB	2.00	0.89
35:DA:1430:C:H2'	35:DA:1431:U:H6	1.36	0.89
10:AJ:96:ILE:H	10:AJ:96:ILE:HD13	1.36	0.89
1:CA:801:U:H2'	1:CA:802:A:H8	1.36	0.89
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.08	0.89
41:DG:107:LEU:HD22	41:DG:177:GLY:O	1.70	0.89
42:DH:85:LYS:CD	42:DH:133:VAL:HB	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:28:LYS:NZ	56:DY:28:LYS:N	2.14	0.89
35:BA:271(O):C:O2'	35:BA:271(P):C:H5'	1.72	0.89
1:CA:1060:C:C5	3:CC:2:GLY:HA2	2.05	0.89
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.07	0.89
19:CS:39:THR:HG22	19:CS:40:ILE:H	1.37	0.89
35:DA:2473:U:C5'	35:DA:2475:C:N4	2.30	0.89
19:AS:42:PRO:CG	29:B4:50:VAL:HG21	2.02	0.89
22:AV:53:G:H5''	22:AV:53:G:C8	2.07	0.89
23:AX:24:A:C4'	23:AX:25:A:OP1	2.20	0.89
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.88	0.89
33:B8:61:LEU:HD23	33:B8:61:LEU:H	1.37	0.89
35:BA:1530:C:O2'	35:BA:1531:C:H4'	1.72	0.89
42:BH:85:LYS:CD	42:BH:133:VAL:HB	2.02	0.89
10:AJ:46:ARG:HH22	10:AJ:66:ARG:HH21	1.21	0.89
35:DA:2303:G:H1'	41:DG:132:ASN:ND2	1.87	0.89
35:DA:2472:G:C3'	35:DA:2473:U:C5'	2.32	0.89
38:DD:210:GLY:O	38:DD:212:SER:N	2.05	0.89
50:DS:99:LYS:HD2	50:DS:99:LYS:H	1.37	0.89
11:AK:99:GLN:HG2	11:AK:105:VAL:HG11	1.54	0.89
50:BS:15:ARG:HH11	50:BS:15:ARG:CB	1.86	0.89
2:CB:84:GLU:HG3	2:CB:215:LEU:HB3	1.54	0.89
10:CJ:40:LEU:HB3	10:CJ:41:PRO:HD2	1.51	0.89
33:D8:49:VAL:HG12	35:DA:2360:A:OP1	1.72	0.89
42:DH:7:LEU:N	42:DH:7:LEU:HD13	1.88	0.89
51:DT:56:GLY:O	51:DT:59:THR:HG22	1.70	0.89
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.54	0.89
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	1.55	0.89
27:B2:10:LEU:HD21	27:B2:59:ARG:HD2	1.54	0.89
1:CA:1060:C:O2'	10:CJ:56:HIS:CD2	2.25	0.89
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.53	0.89
24:CY:7:HIS:N	24:CY:7:HIS:ND1	2.19	0.89
35:DA:2303:G:O2'	41:DG:132:ASN:HB2	1.73	0.89
42:DH:41:MET:HE3	42:DH:41:MET:HA	1.52	0.89
1:AA:673:G:H2'	1:AA:674:G:C8	2.08	0.89
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.37	0.89
23:AX:13:A:H5''	23:AX:14:A:C5'	2.01	0.89
33:D8:14:VAL:HG23	33:D8:24:ALA:HB2	1.54	0.89
33:D8:48:PHE:O	33:D8:49:VAL:HG22	1.71	0.89
35:DA:963:U:H2'	35:DA:964:C:H6	1.36	0.89
37:DC:82:LYS:NZ	37:DC:94:VAL:HG11	1.88	0.89
50:DS:15:ARG:HH11	50:DS:15:ARG:HB3	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:57:GLN:HG3	35:BA:1913:A:H2	0.84	0.89
29:B4:24:THR:HG23	41:BG:5:VAL:HG11	1.52	0.89
32:B7:8:ASN:ND2	32:B7:11:LYS:H	1.69	0.89
1:CA:11:G:O2'	1:CA:12:U:H5'	1.73	0.89
35:DA:1038:C:H3'	35:DA:1039:G:H5''	1.52	0.89
35:DA:1346:G:C2'	35:DA:1347:G:H5''	2.01	0.89
2:AB:196:LEU:HD12	2:AB:197:VAL:HG13	1.55	0.89
12:AL:41:THR:HG21	24:AY:7:HIS:CB	2.01	0.89
35:BA:528:A:O2'	35:BA:529:A:H5'	1.72	0.89
35:BA:775:G:O2'	35:BA:776:G:P	2.30	0.89
1:CA:401:C:OP1	4:CD:73:ARG:CZ	2.20	0.89
1:CA:1417:G:H22	1:CA:1482:G:H2'	1.37	0.89
8:CH:20:TYR:HA	8:CH:65:TYR:HE2	1.37	0.89
35:DA:1910:G:O2'	35:DA:1911:U:H5'	1.71	0.89
36:DB:74:U:C2'	36:DB:75:G:H5''	2.02	0.89
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.55	0.89
1:AA:1004:A:H61	1:AA:1034:G:H2'	1.37	0.88
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.08	0.88
37:BC:191:ALA:HA	37:BC:195:ALA:HB3	1.54	0.88
39:BE:77:ILE:HG22	39:BE:78:LEU:H	1.38	0.88
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.38	0.88
9:CI:27:THR:HG23	9:CI:31:GLN:O	1.73	0.88
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.06	0.88
52:DU:90:VAL:O	52:DU:92:ARG:N	2.06	0.88
7:AG:25:ALA:HA	7:AG:28:ASN:HD22	1.35	0.88
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.37	0.88
24:AY:82:GLN:C	24:AY:83:LEU:HD23	1.98	0.88
35:BA:1899:G:N2	35:BA:1902:C:N4	2.21	0.88
4:CD:25:ARG:HH12	4:CD:35:ARG:HH12	1.20	0.88
11:CK:99:GLN:HG2	11:CK:105:VAL:HG11	1.54	0.88
26:B1:73:LEU:HD11	26:B1:94:LEU:HB3	1.55	0.88
35:BA:518:G:H4'	54:BW:18:ARG:NH1	1.88	0.88
38:BD:35:LYS:H	38:BD:36:PRO:HD2	1.33	0.88
41:BG:112:PRO:HG2	41:BG:113:ARG:HA	1.53	0.88
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.55	0.88
22:CV:33:U:O2	22:CV:35:A:H5'	1.73	0.88
35:DA:543:C:HO2'	35:DA:547:A:H8	0.89	0.88
26:B1:45:ASN:ND2	35:BA:2090:G:H21	1.72	0.88
39:BE:111:ARG:HD2	39:BE:160:TYR:CD1	2.07	0.88
37:DC:78:ALA:HB3	37:DC:82:LYS:HG3	1.55	0.88
41:DG:52:ILE:HD13	41:DG:52:ILE:H	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:22:LYS:HA	2:AB:22:LYS:NZ	1.88	0.88
2:AB:84:GLU:HG3	2:AB:215:LEU:HB3	1.53	0.88
9:AI:27:THR:HG23	9:AI:31:GLN:O	1.73	0.88
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.53	0.88
10:CJ:96:ILE:HD13	10:CJ:96:ILE:H	1.35	0.88
40:DF:22:ALA:O	40:DF:26:ALA:HB2	1.74	0.88
47:DP:17:LYS:O	47:DP:19:VAL:N	2.06	0.88
35:BA:1779:U:H5	35:BA:1784:A:N7	1.71	0.88
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.08	0.88
38:DD:35:LYS:O	38:DD:37:LEU:N	2.07	0.88
43:DI:133:HIS:HB3	43:DI:134:PRO:CD	2.02	0.88
56:DY:7:VAL:HB	56:DY:8:LYS:HD2	1.55	0.88
19:AS:9:VAL:HG22	29:B4:53:GLU:CG	2.04	0.88
35:BA:925:C:C2'	35:BA:926:A:H5''	2.04	0.88
38:BD:125:ILE:HD12	38:BD:137:PRO:HD3	1.56	0.88
29:D4:56:VAL:HG13	29:D4:57:GLU:H	1.36	0.88
38:DD:134:ARG:HG3	38:DD:135:PHE:CD1	2.09	0.88
40:DF:164:ARG:HG3	40:DF:175:THR:OG1	1.74	0.88
5:AE:15:ARG:NH1	23:AX:24:A:C5'	2.34	0.88
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.38	0.88
41:BG:155:MET:HE3	41:BG:157:ILE:HG13	1.54	0.88
53:BV:38:LEU:O	53:BV:39:LEU:HD13	1.73	0.88
22:CV:55:U:C5	22:CV:57:A:P	2.66	0.88
35:DA:83:G:H22	35:DA:102:G:H2'	1.39	0.88
35:DA:146:G:H8	35:DA:146:G:H5'	1.38	0.88
35:DA:865:C:H4'	35:DA:866:A:C8	2.08	0.88
3:AC:162:GLN:OE1	23:AX:23:A:C8	2.25	0.88
41:BG:112:PRO:C	41:BG:114:ILE:H	1.82	0.88
42:BH:7:LEU:N	42:BH:7:LEU:HD13	1.88	0.88
56:BY:88:LYS:HZ1	56:BY:93:GLY:HA3	1.39	0.88
10:CJ:46:ARG:HH22	10:CJ:66:ARG:HH21	1.21	0.88
37:BC:78:ALA:HB3	37:BC:82:LYS:HG3	1.56	0.88
37:BC:89:ALA:HB3	37:BC:153:ILE:HA	1.54	0.88
43:BI:133:HIS:HB3	43:BI:134:PRO:CD	2.04	0.88
2:CB:22:LYS:HA	2:CB:22:LYS:NZ	1.89	0.88
2:CB:97:TRP:CZ3	2:CB:172:ILE:HB	2.09	0.88
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.39	0.88
26:D1:5:CYS:SG	26:D1:62:VAL:HG23	2.14	0.88
19:AS:39:THR:HG22	19:AS:40:ILE:H	1.39	0.87
3:CC:34:LEU:HB2	3:CC:38:ARG:HH21	1.37	0.87
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:81:GLY:O	58:CX:13:A:H5'	1.73	0.87
33:D8:61:LEU:HD23	33:D8:61:LEU:H	1.36	0.87
37:DC:89:ALA:HB3	37:DC:153:ILE:HA	1.56	0.87
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.55	0.87
35:DA:90:U:C1'	35:DA:92:A:H8	1.87	0.87
1:AA:1293:G:HO2'	1:AA:1294:G:H8	0.93	0.87
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.54	0.87
25:D0:27:GLU:HG3	25:D0:68:GLU:HA	1.54	0.87
35:DA:1913:A:H3'	35:DA:1913:A:OP2	1.74	0.87
42:DH:8:PRO:CD	42:DH:9:ILE:N	2.30	0.87
52:BU:92:ARG:NH1	53:BV:11:GLN:H	1.72	0.87
1:CA:1417:G:N2	1:CA:1482:G:H2'	1.89	0.87
22:CV:36:U:H3	58:CX:16:A:H61	1.18	0.87
27:D2:29:LYS:HD3	27:D2:57:ILE:HD13	1.57	0.87
56:DY:7:VAL:HB	56:DY:8:LYS:CE	2.05	0.87
1:AA:1012:U:H3'	1:AA:1013:G:H5''	1.54	0.87
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.36	0.87
37:BC:82:LYS:NZ	37:BC:94:VAL:HG11	1.88	0.87
1:CA:192:U:H4'	20:CT:103:GLY:H	1.40	0.87
1:CA:836:G:C6	1:CA:837:G:C6	2.62	0.87
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.39	0.87
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.38	0.87
1:AA:818:G:O2'	1:AA:819:A:H5'	1.73	0.87
35:BA:776:G:H5''	35:BA:776:G:H8	1.35	0.87
35:DA:1779:U:H5	35:DA:1784:A:N7	1.72	0.87
35:DA:2115:G:H22	35:DA:2118:U:H5''	1.38	0.87
57:DZ:144:LEU:HG	57:DZ:150:LEU:HD22	1.57	0.87
38:BD:221:VAL:HG23	38:BD:226:MET:HE3	1.55	0.87
46:BO:2:ILE:CD1	46:BO:82:ASN:HD22	1.87	0.87
1:CA:11:G:C2'	1:CA:12:U:H5'	2.05	0.87
50:DS:15:ARG:HH11	50:DS:15:ARG:CB	1.86	0.87
35:BA:1038:C:H3'	35:BA:1039:G:H5''	1.56	0.87
32:D7:8:ASN:ND2	32:D7:11:LYS:H	1.71	0.87
24:AY:49:ARG:O	24:AY:66:ALA:CB	2.23	0.87
35:BA:1490:A:N7	35:BA:1490:A:P	2.48	0.87
42:BH:15:VAL:O	42:BH:16:SER:OG	1.92	0.87
1:CA:1060:C:OP1	14:CN:45:ARG:NH2	2.08	0.87
12:CL:110:ARG:HB3	12:CL:119:THR:HG21	1.56	0.87
22:CV:54:U:C2'	22:CV:55:U:H5''	2.03	0.87
52:DU:92:ARG:NH1	53:DV:11:GLN:H	1.73	0.87
1:AA:979:C:H3'	1:AA:980:C:H5''	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1528(A):A:N7	35:BA:1529:G:N7	2.22	0.86
48:BQ:43:THR:OG1	48:BQ:46:GLN:HG3	1.75	0.86
1:CA:6:G:N3	1:CA:6:G:H5''	1.89	0.86
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.54	0.86
27:D2:36:ARG:HH21	55:DX:9:LEU:HA	1.39	0.86
35:DA:1717:G:H2'	35:DA:1718:G:H5''	1.56	0.86
28:B3:3:ARG:HH11	28:B3:3:ARG:CB	1.87	0.86
33:B8:43:GLN:C	33:B8:44:LYS:HD2	2.00	0.86
1:CA:1012:U:H3'	1:CA:1013:G:H5''	1.54	0.86
32:D7:8:ASN:HD22	32:D7:8:ASN:C	1.83	0.86
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.57	0.86
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.39	0.86
35:BA:902:C:H2'	35:BA:903:C:H6	1.40	0.86
36:BB:74:U:C2'	36:BB:75:G:H5''	2.04	0.86
38:BD:134:ARG:HG3	38:BD:135:PHE:CD1	2.10	0.86
42:BH:17:VAL:HG22	42:BH:26:VAL:HG22	1.58	0.86
35:DA:528:A:O2'	35:DA:529:A:H5'	1.74	0.86
3:AC:162:GLN:CB	23:AX:23:A:C6	2.50	0.86
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.56	0.86
24:AY:93:LYS:HB2	24:AY:96:LEU:OXT	1.76	0.86
50:BS:15:ARG:HH11	50:BS:15:ARG:HB3	1.38	0.86
33:B8:4:MET:HB2	33:B8:61:LEU:CD1	2.05	0.86
47:BP:17:LYS:O	47:BP:19:VAL:N	2.08	0.86
56:BY:13:VAL:HG23	56:BY:73:ARG:C	2.01	0.86
22:CV:53:G:N2	22:CV:61:C:O2	2.06	0.86
22:AV:52:G:C2'	22:AV:52:G:N3	2.28	0.86
35:BA:1187:G:H5''	53:BV:81:TYR:CE2	2.11	0.86
35:BA:2115:G:H22	35:BA:2118:U:H5''	1.39	0.86
52:BU:90:VAL:O	52:BU:92:ARG:N	2.09	0.86
1:CA:36:C:C2'	1:CA:37:U:C5'	2.47	0.86
46:DO:104:ARG:HH21	51:DT:33:LYS:NZ	1.74	0.86
49:DR:10:LEU:HD11	49:DR:17:ARG:HB3	1.48	0.86
56:DY:13:VAL:HG23	56:DY:73:ARG:C	2.01	0.86
22:AV:54:U:C3'	22:AV:55:U:C5'	2.39	0.86
33:B8:49:VAL:HG12	35:BA:2360:A:OP1	1.74	0.86
38:BD:210:GLY:O	38:BD:212:SER:N	2.07	0.86
56:BY:28:LYS:HA	56:BY:38:ILE:HG22	1.55	0.86
1:CA:6:G:N7	5:CE:119:LEU:HD11	1.89	0.86
2:CB:71:VAL:HG23	2:CB:164:VAL:HG13	1.57	0.86
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.06	0.86
35:DA:2472:G:H5''	35:DA:2473:U:H5'	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:79:VAL:HG21	38:DD:111:LEU:HD11	1.54	0.86
42:DH:17:VAL:HG22	42:DH:26:VAL:HG22	1.58	0.86
49:DR:98:LEU:HB2	49:DR:113:LEU:HD21	1.57	0.86
56:DY:28:LYS:H	56:DY:28:LYS:HZ2	0.91	0.86
31:B6:28:ARG:HA	31:B6:32:ASN:ND2	1.91	0.86
57:BZ:127:LYS:HB2	57:BZ:162:GLU:HB2	1.57	0.86
1:CA:1199:U:H4'	10:CJ:54:PHE:CE1	2.11	0.86
3:CC:121:ALA:HB2	3:CC:187:ALA:HB1	1.56	0.86
35:DA:2473:U:O2	35:DA:2474:C:H6	1.59	0.86
48:DQ:132:VAL:HG11	57:DZ:81:ARG:HH21	1.41	0.86
2:AB:97:TRP:CZ3	2:AB:172:ILE:HB	2.10	0.86
35:BA:613:G:H8	35:BA:613:G:H5'	1.41	0.86
1:CA:632:A:C2'	1:CA:633:G:H5''	2.04	0.86
26:D1:23:LYS:HD2	26:D1:28:GLY:HA3	1.58	0.86
35:DA:1592:C:H2'	35:DA:1593:G:H5''	1.57	0.86
40:DF:192:LEU:HD21	40:DF:194:MET:HE2	1.56	0.86
42:DH:15:VAL:O	42:DH:16:SER:OG	1.92	0.86
9:AI:111:ARG:HG2	9:AI:112:LYS:H	1.40	0.86
53:BV:15:GLU:HB3	53:BV:16:PRO:CD	2.05	0.86
58:CX:13:A:C2	58:CX:14:A:O2'	2.29	0.86
29:D4:6:HIS:HB2	29:D4:7:PRO:HD2	1.58	0.86
33:D8:4:MET:HB2	33:D8:61:LEU:CD1	2.06	0.86
35:DA:1484:G:H2'	35:DA:1485:G:C5'	2.02	0.86
35:DA:1899:G:N2	35:DA:1902:C:N4	2.23	0.86
22:AW:28:C:H2'	22:AW:29:G:H8	1.40	0.85
23:AX:19:U:C2'	23:AX:20:U:C5	2.53	0.85
35:BA:1114:G:C3'	35:BA:1115:G:H5''	2.04	0.85
35:BA:1717:G:H2'	35:BA:1718:G:H5''	1.55	0.85
38:BD:45:ASN:CG	38:BD:46:GLN:H	1.84	0.85
53:BV:39:LEU:HD12	53:BV:47:VAL:HG11	1.57	0.85
1:CA:1301:U:H2'	1:CA:1303:C:H5	1.41	0.85
35:DA:925:C:C2'	35:DA:926:A:H5''	2.06	0.85
1:AA:632:A:C2'	1:AA:633:G:H5''	2.05	0.85
24:AY:24:LEU:CD1	24:AY:43:TRP:HB3	2.06	0.85
56:BY:7:VAL:HB	56:BY:8:LYS:CE	2.05	0.85
22:CW:17(A):U:H2'	22:CW:18:G:H5'	1.58	0.85
28:D3:3:ARG:HH11	28:D3:3:ARG:CB	1.87	0.85
35:DA:848:G:H2'	35:DA:849:A:C8	2.10	0.85
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.11	0.85
24:AY:15:THR:HB	24:AY:16:GLU:HG2	1.58	0.85
35:BA:64:A:H5'	55:BX:64:LYS:HE2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1484:G:H2'	35:BA:1485:G:C5'	2.02	0.85
35:BA:2154:G:H2'	35:BA:2155:G:H8	1.42	0.85
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.56	0.85
57:BZ:10:ARG:HD3	57:BZ:12:GLY:HA2	1.58	0.85
1:CA:626:U:H5''	16:CP:38:TYR:CD2	2.10	0.85
1:CA:1129:C:H4'	1:CA:1130:A:H5'	1.57	0.85
1:CA:1516:G:H2'	1:CA:1517:G:H5'	1.55	0.85
24:CY:6:GLY:N	24:CY:7:HIS:ND1	2.23	0.85
31:D6:28:ARG:HA	31:D6:32:ASN:ND2	1.91	0.85
38:DD:31:LYS:HB3	38:DD:34:VAL:HG23	1.58	0.85
24:AY:24:LEU:HD12	24:AY:43:TRP:HB3	1.56	0.85
35:BA:83:G:N2	35:BA:102:G:H2'	1.90	0.85
35:BA:1592:C:H2'	35:BA:1593:G:H5''	1.58	0.85
45:BN:55:VAL:HG22	45:BN:126:PRO:HA	1.56	0.85
58:CX:14:A:H2'	58:CX:15:A:H5''	1.57	0.85
35:DA:1504:C:C2'	35:DA:1505:C:H5''	2.06	0.85
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.54	0.85
26:B1:44:PRO:HG2	26:B1:46:LEU:HD13	1.56	0.85
41:BG:63:ILE:HD13	41:BG:144:ILE:HD11	1.57	0.85
51:BT:28:VAL:CG2	51:BT:46:GLU:HA	2.06	0.85
1:CA:979:C:H3'	1:CA:980:C:H5''	1.56	0.85
47:DP:64:LYS:C	47:DP:66:GLY:H	1.84	0.85
20:AT:9:ASN:O	20:AT:10:LEU:HB2	1.77	0.85
49:BR:100:LEU:HD13	49:BR:112:ALA:HA	1.58	0.85
20:CT:89:ARG:NH2	20:CT:104:LEU:HD11	1.91	0.85
35:DA:2147:G:H2'	35:DA:2148:G:H4'	1.58	0.85
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.45	0.85
46:DO:35:VAL:HG11	46:DO:103:ALA:HB3	1.58	0.85
2:AB:71:VAL:HG23	2:AB:164:VAL:HG13	1.56	0.85
4:AD:50:ARG:O	4:AD:50:ARG:HD2	1.75	0.85
23:AX:13:A:C3'	23:AX:14:A:H5''	2.07	0.85
24:AY:28:ILE:HG23	24:AY:29:PRO:N	1.92	0.85
35:BA:1654:A:P	49:BR:3:HIS:HB2	2.17	0.85
38:BD:31:LYS:HB3	38:BD:34:VAL:HG23	1.58	0.85
46:BO:13:ASN:HD21	46:BO:97:ARG:HB2	1.42	0.85
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.59	0.85
35:DA:1187:G:H5''	53:DV:81:TYR:CE2	2.11	0.85
3:AC:65:ALA:HA	3:AC:100:ALA:HB3	1.57	0.85
35:BA:2523:G:C2'	35:BA:2524:G:H5''	2.07	0.85
38:BD:25:THR:HG22	38:BD:26:LYS:HD2	1.59	0.85
1:CA:4:U:OP1	4:CD:86:LYS:CD	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:401:C:C3'	1:CA:401:C:H6	1.78	0.85
3:CC:65:ALA:HA	3:CC:100:ALA:HB3	1.57	0.85
38:DD:45:ASN:CG	38:DD:46:GLN:H	1.84	0.85
41:BG:72:ARG:NE	41:BG:86:MET:HB2	1.92	0.85
1:CA:1427:U:H2'	1:CA:1428:A:H8	1.41	0.85
7:CG:26:PHE:O	7:CG:30:ILE:HG12	1.75	0.85
8:CH:6:ILE:HD12	8:CH:6:ILE:H	1.42	0.85
35:DA:1914:C:C2'	35:DA:1915:U:H5'	1.97	0.85
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.77	0.85
1:CA:1293:G:HO2'	1:CA:1294:G:H8	0.89	0.85
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.39	0.85
35:DA:902:C:H2'	35:DA:903:C:H6	1.37	0.85
35:DA:1403:C:H5''	35:DA:1471:A:H1'	1.59	0.85
35:DA:1654:A:P	49:DR:3:HIS:HB2	2.17	0.85
50:DS:23:ARG:HG3	50:DS:24:LEU:HD13	1.59	0.85
12:AL:86:ARG:HA	12:AL:94:ARG:HA	1.59	0.84
35:BA:963:U:H2'	35:BA:964:C:H6	1.40	0.84
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.11	0.84
53:BV:19:LYS:HG2	53:BV:94:LEU:HB2	1.58	0.84
6:CF:36:ARG:HB3	6:CF:36:ARG:NH1	1.92	0.84
22:CV:51:C:H6	22:CV:51:C:H5''	1.39	0.84
51:DT:60:THR:HG22	51:DT:77:PRO:HA	1.57	0.84
53:DV:15:GLU:HB3	53:DV:16:PRO:CD	2.06	0.84
13:AM:57:ARG:NH1	29:B4:34:GLU:HG3	1.92	0.84
56:BY:28:LYS:HZ2	56:BY:28:LYS:H	0.84	0.84
22:CV:54:U:H3'	22:CV:55:U:H5''	0.84	0.84
35:DA:83:G:N2	35:DA:102:G:H2'	1.92	0.84
35:DA:518:G:H4'	54:DW:18:ARG:NH1	1.92	0.84
45:DN:133:GLN:HG2	45:DN:135:PRO:HD3	1.58	0.84
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.59	0.84
6:AF:36:ARG:HB3	6:AF:36:ARG:NH1	1.92	0.84
35:BA:848:G:H2'	35:BA:849:A:C8	2.12	0.84
56:BY:7:VAL:HB	56:BY:8:LYS:CD	2.06	0.84
1:CA:836:G:C6	1:CA:837:G:O6	2.29	0.84
1:CA:1452:C:H4'	1:CA:1456:G:C2	2.12	0.84
35:DA:1496:A:H8	35:DA:1577:C:HO2'	0.87	0.84
35:DA:2523:G:C2'	35:DA:2524:G:H5''	2.06	0.84
45:DN:55:VAL:HG22	45:DN:126:PRO:HA	1.57	0.84
46:DO:13:ASN:HD21	46:DO:97:ARG:HB2	1.41	0.84
54:DW:9:TYR:H	54:DW:102:HIS:HD2	1.26	0.84
35:BA:1504:C:C2'	35:BA:1505:C:H5''	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.12	0.84
41:BG:16:ARG:NH2	41:BG:31:VAL:HB	1.93	0.84
46:BO:35:VAL:HG11	46:BO:103:ALA:HB3	1.57	0.84
12:CL:86:ARG:HA	12:CL:94:ARG:HA	1.60	0.84
18:CR:19:LYS:HG3	18:CR:20:ALA:H	1.42	0.84
51:DT:80:SER:HB3	51:DT:81:PRO:HD3	1.57	0.84
4:AD:25:ARG:HH12	4:AD:35:ARG:HH12	1.22	0.84
35:BA:1496:A:H8	35:BA:1577:C:HO2'	0.89	0.84
41:BG:27:ASN:ND2	41:BG:28:VAL:H	1.76	0.84
47:BP:41:ARG:CA	47:BP:41:ARG:NE	2.39	0.84
22:CV:56:C:O5'	22:CV:56:C:H6	1.60	0.84
26:D1:73:LEU:HD11	26:D1:94:LEU:HB3	1.58	0.84
35:BA:141:A:H8	35:BA:1408:C:HO2'	0.85	0.84
57:BZ:150:LEU:HG	57:BZ:171:ILE:HD11	1.59	0.84
1:CA:1504:G:H4'	1:CA:1505:G:O4'	1.78	0.84
35:DA:867:C:C2'	35:DA:868:U:H5'	2.00	0.84
23:AX:19:U:C2'	23:AX:20:U:H6	1.84	0.84
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	1.92	0.84
45:BN:47:ALA:HB2	45:BN:112:LEU:HD11	1.60	0.84
27:D2:19:VAL:HG12	27:D2:23:LYS:HE2	1.57	0.84
27:D2:65:ASN:HD22	27:D2:69:ARG:HH22	1.22	0.84
35:DA:866:A:C8	35:DA:866:A:OP1	2.30	0.84
35:DA:2473:U:O2	35:DA:2473:U:H2'	1.75	0.84
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.60	0.84
37:DC:72:VAL:HG11	37:DC:161:ILE:HA	1.59	0.84
46:DO:2:ILE:CD1	46:DO:82:ASN:HD22	1.90	0.84
47:DP:23:PRO:HD2	47:DP:33:ARG:CZ	2.07	0.84
48:DQ:43:THR:OG1	48:DQ:46:GLN:HG3	1.78	0.84
1:AA:192:U:H4'	20:AT:103:GLY:H	1.42	0.84
8:AH:89:PRO:HA	8:AH:92:ARG:HH12	1.43	0.84
35:DA:867:C:N4	35:DA:912:C:O2'	2.11	0.84
35:BA:1490:A:C8	35:BA:1490:A:O5'	2.29	0.84
45:BN:133:GLN:HG2	45:BN:135:PRO:HD3	1.58	0.84
5:CE:148:VAL:HG21	8:CH:107:LEU:HD13	1.58	0.84
8:CH:13:ILE:O	8:CH:17:THR:HG23	1.77	0.84
25:D0:48:GLY:HA3	25:D0:80:HIS:ND1	1.93	0.84
54:DW:5:ALA:HB1	54:DW:50:VAL:HG23	1.60	0.84
55:DX:3:THR:HA	55:DX:6:ASP:OD2	1.78	0.84
3:AC:121:ALA:HB2	3:AC:187:ALA:HB1	1.57	0.84
12:AL:123:LYS:HE2	12:AL:125:ALA:HB2	1.58	0.84
26:B1:71:TYR:HE1	43:BI:27:ARG:HD2	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:45:VAL:HG13	56:BY:60:PHE:HB3	1.60	0.84
12:CL:72:HIS:HD2	12:CL:74:LEU:HB2	1.42	0.84
47:DP:59:LEU:CA	47:DP:61:ARG:NE	2.41	0.84
57:DZ:165:VAL:HG12	57:DZ:166:SER:H	1.42	0.84
1:CA:1071:C:H5''	5:CE:49:PRO:CG	2.07	0.83
35:DA:903:C:C2'	35:DA:904:C:H5''	2.08	0.83
45:DN:125:GLY:HA3	45:DN:126:PRO:O	1.78	0.83
50:DS:83:LYS:HG2	50:DS:105:ALA:HB3	1.60	0.83
53:DV:6:LYS:HE2	53:DV:37:VAL:HG11	1.60	0.83
18:AR:19:LYS:HG3	18:AR:20:ALA:H	1.42	0.83
35:BA:903:C:C2'	35:BA:904:C:H5''	2.08	0.83
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.58	0.83
35:BA:2014:A:H4'	54:BW:92:ARG:HH22	1.42	0.83
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	1.92	0.83
47:DP:45:LEU:HD12	47:DP:45:LEU:H	1.42	0.83
51:DT:28:VAL:CG2	51:DT:46:GLU:HA	2.07	0.83
35:BA:2147:G:H2'	35:BA:2148:G:H4'	1.58	0.83
15:CO:40:SER:HB2	35:DA:715:G:H21	1.43	0.83
35:DA:1484:G:C2'	35:DA:1485:G:H5''	2.02	0.83
35:DA:1970:A:H5'	35:DA:1972:A:H1'	1.59	0.83
7:AG:26:PHE:O	7:AG:30:ILE:HG12	1.79	0.83
8:AH:6:ILE:HD12	8:AH:6:ILE:H	1.42	0.83
37:BC:72:VAL:HG11	37:BC:161:ILE:HA	1.58	0.83
43:BI:52:ARG:HD3	43:BI:53:ALA:N	1.93	0.83
52:BU:102:GLU:HG3	53:BV:2:PHE:CZ	2.13	0.83
12:CL:123:LYS:HE2	12:CL:125:ALA:HB2	1.60	0.83
35:DA:886:C:H4'	35:DA:888:C:H41	1.43	0.83
41:DG:25:TYR:HD2	41:DG:31:VAL:HG22	1.44	0.83
45:DN:32:THR:HG22	45:DN:37:LYS:HB2	1.61	0.83
56:DY:28:LYS:HA	56:DY:38:ILE:HG22	1.60	0.83
1:AA:1129:C:H4'	1:AA:1130:A:H5'	1.60	0.83
5:AE:81:GLU:HG2	5:AE:90:VAL:HG22	1.57	0.83
6:AF:52:ILE:HD13	6:AF:87:ARG:HH12	1.40	0.83
46:BO:104:ARG:HH21	51:BT:33:LYS:NZ	1.75	0.83
47:BP:64:LYS:C	47:BP:66:GLY:H	1.83	0.83
1:CA:33:A:O2'	1:CA:34:C:OP1	1.95	0.83
1:CA:644:G:H4'	8:CH:92:ARG:HH21	1.41	0.83
35:DA:631:A:OP1	47:DP:64:LYS:HE2	1.78	0.83
43:DI:61:ARG:H	43:DI:61:ARG:HD2	1.43	0.83
53:DV:19:LYS:HG2	53:DV:94:LEU:HB2	1.60	0.83
56:DY:88:LYS:HZ1	56:DY:93:GLY:HA3	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1199:U:H4'	10:AJ:54:PHE:CE1	2.13	0.83
8:AH:13:ILE:O	8:AH:17:THR:HG23	1.79	0.83
35:BA:543:C:HO2'	35:BA:547:A:H8	0.89	0.83
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.60	0.83
1:CA:644:G:C2'	1:CA:645:C:C5'	2.30	0.83
58:CX:19:G:H5''	58:CX:19:G:C2	2.13	0.83
35:DA:1568:G:H5'	38:DD:60:ARG:HA	1.60	0.83
19:AS:6:LYS:H	19:AS:6:LYS:CE	1.92	0.83
24:AY:33:LYS:HB3	24:AY:36:GLY:H	1.44	0.83
40:BF:164:ARG:HG3	40:BF:175:THR:OG1	1.79	0.83
4:CD:19:LEU:HD23	4:CD:21:LEU:HD21	1.60	0.83
35:DA:1504:C:H2'	35:DA:1505:C:H5''	1.61	0.83
52:DU:102:GLU:HG3	53:DV:2:PHE:CZ	2.14	0.83
12:AL:110:ARG:HB3	12:AL:119:THR:HG21	1.61	0.83
19:AS:42:PRO:HG2	29:B4:50:VAL:HG21	1.60	0.83
36:BB:48:A:H4'	50:BS:95:HIS:HD2	1.43	0.83
53:BV:6:LYS:HE2	53:BV:37:VAL:HG11	1.60	0.83
54:BW:5:ALA:HB1	54:BW:50:VAL:HG23	1.61	0.83
22:CV:55:U:N3	22:CV:57:A:O5'	2.11	0.83
49:DR:24:GLN:NE2	49:DR:36:THR:HG21	1.92	0.83
29:B4:6:HIS:HB2	29:B4:7:PRO:HD2	1.58	0.83
35:BA:539:G:H2'	35:BA:540:C:H6	1.44	0.83
35:BA:1916:A:H8	35:BA:1916:A:H5'	1.43	0.83
1:CA:1224:G:H4'	13:CM:102:ARG:HE	1.44	0.83
24:CY:0:LYS:O	35:DA:1914:C:C6	2.30	0.83
24:AY:75:PHE:CD1	24:AY:75:PHE:N	2.29	0.83
35:BA:146:G:H5'	35:BA:146:G:H8	1.42	0.83
35:BA:1568:G:H5'	38:BD:60:ARG:HA	1.61	0.83
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.59	0.83
42:BH:8:PRO:CD	42:BH:9:ILE:N	2.30	0.83
57:BZ:102:LEU:HD21	57:BZ:124:ILE:HG12	1.59	0.83
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.14	0.83
28:D3:44:ARG:O	28:D3:48:GLU:HG2	1.78	0.83
35:DA:2685:G:H5'	46:DO:68:GLU:OE2	1.79	0.83
38:DD:19:ALA:HB2	38:DD:204:ILE:HD11	1.61	0.83
1:AA:1152:A:H5'	10:AJ:70:ARG:NH2	1.94	0.82
24:AY:21:LEU:HD23	24:AY:52:TYR:OH	1.78	0.82
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.09	0.82
41:BG:138:GLN:NE2	41:BG:153:ARG:H	1.76	0.82
8:CH:37:ARG:HH21	8:CH:38:ILE:HG13	1.44	0.82
8:CH:89:PRO:HA	8:CH:92:ARG:HH12	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:43:GLN:C	33:D8:44:LYS:HD2	2.03	0.82
42:DH:11:VAL:HG22	42:DH:49:VAL:CB	2.09	0.82
24:AY:60:GLU:OE1	24:AY:74:SER:HB2	1.78	0.82
35:BA:1915:U:C2'	35:BA:1916:A:H5''	2.07	0.82
41:BG:98:ARG:HA	41:BG:101:ILE:HD11	1.60	0.82
1:CA:818:G:O2'	1:CA:819:A:H5'	1.78	0.82
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.43	0.82
35:DA:1021:A:H62	35:DA:1141:U:H3	1.25	0.82
35:DA:2472:G:H5''	35:DA:2473:U:C5'	2.08	0.82
43:BI:129:THR:HG22	43:BI:130:TYR:H	1.44	0.82
50:BS:15:ARG:HB3	50:BS:15:ARG:NH1	1.95	0.82
55:BX:3:THR:HA	55:BX:6:ASP:OD2	1.77	0.82
1:CA:1226:C:C5'	13:CM:96:LEU:HD23	2.09	0.82
6:CF:5:GLU:HB3	6:CF:62:TRP:HE1	1.44	0.82
8:CH:112:LEU:HA	8:CH:134:ILE:HG12	1.60	0.82
35:DA:2472:G:H5''	35:DA:2473:U:H4'	1.61	0.82
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.61	0.82
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.44	0.82
57:DZ:102:LEU:HD11	57:DZ:124:ILE:HG23	1.61	0.82
4:AD:19:LEU:HD23	4:AD:21:LEU:HD21	1.60	0.82
20:AT:89:ARG:NH2	20:AT:104:LEU:HD11	1.93	0.82
23:AX:22:A:O2'	23:AX:23:A:O4'	1.95	0.82
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.61	0.82
1:CA:181:G:O2'	1:CA:182:U:H5'	1.79	0.82
1:CA:401:C:H3'	1:CA:401:C:H6	1.01	0.82
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.13	0.82
35:DA:1494:A:C2'	35:DA:1495:A:H5''	2.09	0.82
46:DO:104:ARG:HH21	51:DT:33:LYS:HZ3	1.28	0.82
47:BP:23:PRO:HD2	47:BP:33:ARG:CZ	2.08	0.82
47:BP:45:LEU:H	47:BP:45:LEU:HD12	1.43	0.82
50:BS:23:ARG:HG3	50:BS:24:LEU:HD13	1.59	0.82
1:CA:1059:C:O5'	1:CA:1059:C:H6	1.62	0.82
35:DA:1427:A:H4'	35:DA:1428:C:O5'	1.79	0.82
1:CA:864:A:H5'	5:CE:86:ALA:HB2	1.62	0.82
20:CT:10:LEU:HD22	20:CT:12:ALA:HB2	1.58	0.82
1:AA:1301:U:H2'	1:AA:1303:C:H5	1.44	0.82
9:AI:111:ARG:HG2	9:AI:112:LYS:N	1.94	0.82
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.59	0.82
35:BA:1504:C:H2'	35:BA:1505:C:H5''	1.60	0.82
47:BP:59:LEU:CA	47:BP:61:ARG:NE	2.38	0.82
53:BV:6:LYS:HB3	53:BV:37:VAL:HG11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:4:U:C4'	1:CA:5:U:H5''	2.09	0.82
1:CA:1499:A:H8	1:CA:1499:A:H5'	1.44	0.82
9:CI:111:ARG:HG2	9:CI:112:LYS:H	1.42	0.82
35:DA:2154:G:H2'	35:DA:2155:G:H8	1.41	0.82
39:DE:100:GLU:O	39:DE:172:VAL:HG23	1.78	0.82
20:AT:10:LEU:HD22	20:AT:12:ALA:HB2	1.59	0.82
35:BA:1378:A:O2'	35:BA:1379:A:H5''	1.79	0.82
1:CA:590:C:H2'	1:CA:591:U:C6	2.14	0.82
27:D2:2:LYS:HB3	35:DA:97:C:H5''	1.60	0.82
5:AE:137:GLU:HG3	5:AE:141:GLN:HE21	1.45	0.82
8:AH:37:ARG:HH21	8:AH:38:ILE:HG13	1.45	0.82
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	1.61	0.82
1:CA:1194:U:H4'	5:CE:22:GLY:O	1.79	0.82
2:CB:219:VAL:HG12	2:CB:223:ILE:HG13	1.62	0.82
20:CT:9:ASN:O	20:CT:10:LEU:HB2	1.79	0.82
5:AE:80:ILE:HG22	8:AH:104:ARG:NH1	1.95	0.82
42:BH:86:GLU:HA	42:BH:132:ARG:HB3	1.62	0.82
54:BW:110:LYS:HG3	54:BW:111:HIS:H	1.45	0.82
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.78	0.82
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.93	0.82
35:DA:1114:G:C3'	35:DA:1115:G:H5''	2.10	0.82
38:DD:134:ARG:HG3	38:DD:135:PHE:HD1	1.45	0.82
54:DW:110:LYS:HG3	54:DW:111:HIS:H	1.43	0.82
10:AJ:34:VAL:HG12	10:AJ:35:SER:H	1.43	0.81
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.10	0.81
42:BH:9:ILE:HG12	42:BH:9:ILE:O	1.78	0.81
42:BH:11:VAL:HG22	42:BH:49:VAL:CB	2.09	0.81
1:CA:1207:G:H2'	1:CA:1208:C:C6	2.15	0.81
39:DE:60:ASN:OD1	39:DE:62:PRO:HD3	1.80	0.81
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.44	0.81
35:BA:774:A:O2'	35:BA:775:G:OP2	1.97	0.81
38:BD:49:ILE:HD11	38:BD:52:ARG:HA	1.63	0.81
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.45	0.81
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.45	0.81
49:DR:100:LEU:HD13	49:DR:112:ALA:HA	1.63	0.81
10:AJ:29:ARG:HB3	10:AJ:29:ARG:NH1	1.95	0.81
12:AL:72:HIS:HD2	12:AL:74:LEU:HB2	1.45	0.81
28:B3:44:ARG:O	28:B3:48:GLU:HG2	1.80	0.81
38:BD:19:ALA:HB2	38:BD:204:ILE:HD11	1.62	0.81
56:BY:28:LYS:N	56:BY:28:LYS:NZ	2.14	0.81
1:CA:178:C:C2'	1:CA:179:A:H5''	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1071:C:C5'	5:CE:49:PRO:HG2	2.10	0.81
7:CG:79:ARG:HH21	22:CW:34:C:H42	1.26	0.81
10:CJ:34:VAL:HG12	10:CJ:35:SER:H	1.45	0.81
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.80	0.81
32:D7:5:TRP:NE1	32:D7:7:PRO:HG3	1.96	0.81
35:DA:141:A:H8	35:DA:1408:C:HO2'	0.85	0.81
38:DD:27:THR:HG23	38:DD:83:GLU:HB3	1.61	0.81
42:DH:83:TYR:HB3	42:DH:135:GLY:O	1.80	0.81
50:DS:15:ARG:HB3	50:DS:15:ARG:NH1	1.95	0.81
52:DU:91:ASP:O	52:DU:95:LEU:HB2	1.80	0.81
53:DV:6:LYS:HB3	53:DV:37:VAL:HG11	1.62	0.81
54:DW:66:GLU:O	54:DW:68:ARG:N	2.13	0.81
3:AC:162:GLN:N	23:AX:23:A:H62	1.77	0.81
9:AI:115:GLY:O	9:AI:116:LYS:HG3	1.80	0.81
23:AX:16:A:H8	23:AX:16:A:O5'	1.64	0.81
42:BH:8:PRO:O	42:BH:9:ILE:CG1	2.28	0.81
52:BU:66:ASN:HD21	52:BU:70:ARG:HE	1.26	0.81
36:DB:54:G:H21	41:DG:29:TRP:HE1	1.26	0.81
42:DH:9:ILE:O	42:DH:9:ILE:HG12	1.78	0.81
47:DP:63:PRO:O	47:DP:65:ARG:N	2.13	0.81
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.15	0.81
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.81	0.81
25:B0:48:GLY:HA3	25:B0:80:HIS:ND1	1.95	0.81
42:BH:83:TYR:HB3	42:BH:135:GLY:O	1.80	0.81
53:BV:99:ILE:HD13	53:BV:99:ILE:H	1.46	0.81
24:CY:0:LYS:O	35:DA:1914:C:H6	1.61	0.81
35:DA:613:G:H5'	35:DA:613:G:H8	1.45	0.81
35:DA:2320:A:N3	35:DA:2320:A:H2'	1.96	0.81
56:DY:7:VAL:HB	56:DY:8:LYS:CD	2.11	0.81
1:AA:1060:C:C5	3:AC:2:GLY:N	2.48	0.81
35:BA:1528(A):A:N7	35:BA:1529:G:C5	2.48	0.81
1:CA:399:G:H2'	1:CA:400:C:C6	2.14	0.81
4:CD:199:ASN:ND2	4:CD:202:LEU:HG	1.95	0.81
5:CE:13:ILE:HG22	5:CE:14:ARG:H	1.43	0.81
25:D0:50:ASN:C	25:D0:62:LEU:HD12	2.06	0.81
35:DA:1543:C:C6	35:DA:1543:C:C3'	2.42	0.81
35:DA:1914:C:O2'	35:DA:1915:U:H5''	1.79	0.81
42:DH:8:PRO:O	42:DH:9:ILE:CG1	2.28	0.81
1:AA:181:G:O2'	1:AA:182:U:H5'	1.80	0.81
35:BA:1826:G:H4'	38:BD:242:ARG:HE	1.46	0.81
42:BH:8:PRO:O	42:BH:9:ILE:CG2	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:18:ARG:HB3	47:BP:18:ARG:HH11	1.45	0.81
3:CC:3:ASN:HD22	3:CC:3:ASN:N	1.71	0.81
5:CE:137:GLU:HG3	5:CE:141:GLN:HE21	1.45	0.81
41:DG:52:ILE:HG12	41:DG:53:LEU:N	1.96	0.81
45:DN:67:LEU:HD12	45:DN:67:LEU:H	1.45	0.81
15:AO:62:GLN:O	15:AO:66:LEU:HD13	1.80	0.81
35:BA:775:G:HO2'	35:BA:776:G:P	2.04	0.81
52:DU:95:LEU:HD12	53:DV:11:GLN:HE21	1.45	0.81
26:B1:71:TYR:CE1	43:BI:27:ARG:HD2	2.15	0.81
52:BU:95:LEU:HD12	53:BV:11:GLN:HE21	1.46	0.81
54:BW:66:GLU:O	54:BW:68:ARG:N	2.13	0.81
57:BZ:185:GLU:HG3	57:BZ:186:GLU:H	1.46	0.81
1:CA:1006:C:H1'	1:CA:1023:G:H22	1.44	0.81
1:CA:1225:A:C5	1:CA:1226:C:N4	2.49	0.81
1:CA:1373:G:H5''	7:CG:36:LYS:HB2	1.61	0.81
29:D4:31:ILE:HG23	29:D4:33:VAL:HG23	1.61	0.81
35:DA:2472:G:C5'	35:DA:2473:U:C5'	2.59	0.81
42:DH:8:PRO:O	42:DH:9:ILE:CG2	2.28	0.81
42:DH:86:GLU:HA	42:DH:132:ARG:HB3	1.62	0.81
33:B8:32:LEU:HB3	33:B8:36:LYS:HZ1	1.46	0.81
42:BH:11:VAL:CB	42:BH:49:VAL:HG12	2.11	0.81
57:BZ:155:LEU:HD23	57:BZ:155:LEU:H	1.46	0.81
1:CA:11:G:H2'	1:CA:12:U:H5'	1.60	0.81
1:CA:674:G:H2'	1:CA:675:A:H8	1.46	0.81
1:CA:1403:C:H42	58:CX:18:G:P	2.04	0.81
17:CQ:7:THR:HG22	17:CQ:58:GLU:HG2	1.63	0.81
26:D1:51:VAL:HG21	26:D1:74:VAL:HG21	1.62	0.81
35:DA:2591:C:H2'	35:DA:2592:G:H8	1.43	0.81
38:DD:24:ILE:HD12	38:DD:25:THR:N	1.96	0.81
42:DH:11:VAL:CB	42:DH:49:VAL:HG12	2.11	0.81
45:DN:47:ALA:HB2	45:DN:112:LEU:HD11	1.60	0.81
56:DY:45:VAL:HG13	56:DY:60:PHE:HB3	1.62	0.81
57:DZ:5:LEU:HD12	57:DZ:47:VAL:HG21	1.63	0.81
2:AB:219:VAL:HG12	2:AB:223:ILE:HG13	1.63	0.80
5:AE:13:ILE:HG22	5:AE:14:ARG:H	1.46	0.80
6:AF:5:GLU:HB3	6:AF:62:TRP:HE1	1.45	0.80
23:AX:19:U:O2'	23:AX:20:U:C6	2.32	0.80
25:B0:50:ASN:C	25:B0:62:LEU:HD12	2.06	0.80
35:BA:1021:A:H62	35:BA:1141:U:H3	1.26	0.80
35:BA:1970:A:H5'	35:BA:1972:A:H1'	1.63	0.80
50:BS:89:ARG:HB3	50:BS:92:TYR:HB3	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:97:TRP:HZ3	2:CB:172:ILE:HB	1.44	0.80
15:CO:62:GLN:O	15:CO:66:LEU:HD13	1.79	0.80
35:DA:322:A:H3'	40:DF:169:ASN:HD21	1.46	0.80
35:DA:676:A:H2	35:DA:802:A:H61	1.26	0.80
35:DA:1170:G:H1	35:DA:1179:C:H42	1.28	0.80
49:DR:7:GLY:O	49:DR:8:ARG:CB	2.29	0.80
1:AA:1137:C:H4'	1:AA:1138:G:N2	1.96	0.80
24:AY:83:LEU:O	24:AY:84:LYS:CD	2.30	0.80
39:BE:77:ILE:HG22	39:BE:78:LEU:HD12	1.64	0.80
52:BU:83:LEU:HG	52:BU:88:ILE:HD11	1.63	0.80
1:CA:1226:C:H5'	13:CM:96:LEU:HD23	1.61	0.80
5:CE:103:GLY:H	5:CE:106:PRO:CG	1.94	0.80
10:CJ:29:ARG:HB3	10:CJ:29:ARG:NH1	1.96	0.80
12:CL:4:ILE:O	12:CL:8:VAL:HG23	1.81	0.80
22:CV:54:U:H2'	22:CV:55:U:C4'	2.11	0.80
22:CW:6:G:H21	22:CW:68:C:H41	1.27	0.80
50:DS:89:ARG:HB3	50:DS:92:TYR:HB3	1.62	0.80
57:DZ:6:LYS:HE2	57:DZ:6:LYS:H	1.46	0.80
8:AH:121:ASP:HB2	8:AH:125:ARG:HH12	1.46	0.80
19:AS:6:LYS:HE3	19:AS:6:LYS:N	1.93	0.80
29:B4:31:ILE:HG23	29:B4:33:VAL:HG23	1.61	0.80
1:CA:1004:A:H61	1:CA:1034:G:H2'	1.46	0.80
25:D0:20:ARG:N	25:D0:20:ARG:HD2	1.96	0.80
29:D4:6:HIS:HB3	41:DG:67:LYS:HD2	1.63	0.80
52:DU:66:ASN:HD21	52:DU:70:ARG:HE	1.26	0.80
52:DU:92:ARG:HH22	53:DV:10:LYS:HA	1.45	0.80
53:DV:39:LEU:HD12	53:DV:47:VAL:HG11	1.61	0.80
4:AD:199:ASN:ND2	4:AD:202:LEU:HG	1.96	0.80
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.62	0.80
33:B8:51:ALA:H	33:B8:53:PRO:CD	1.93	0.80
37:BC:82:LYS:HZ1	37:BC:94:VAL:HG11	1.45	0.80
38:BD:27:THR:HG23	38:BD:83:GLU:HB3	1.63	0.80
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.64	0.80
43:BI:13:GLY:HA3	43:BI:17:GLN:OE1	1.81	0.80
43:BI:123:LEU:HD11	43:BI:144:VAL:HG22	1.61	0.80
49:BR:11:ASN:O	49:BR:12:ARG:HG3	1.81	0.80
51:BT:106:SER:N	51:BT:110:ILE:HD11	1.97	0.80
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.46	0.80
1:CA:1128:C:H1'	1:CA:1146:A:H61	1.46	0.80
16:CP:19:ILE:HG22	16:CP:36:ILE:HD11	1.63	0.80
35:DA:2014:A:H4'	54:DW:92:ARG:HH22	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2101:G:H2'	35:DA:2102:U:O4'	1.81	0.80
52:DU:83:LEU:HG	52:DU:88:ILE:HD11	1.62	0.80
24:AY:74:SER:OG	24:AY:84:LYS:CG	2.29	0.80
35:BA:676:A:H2	35:BA:802:A:H61	1.29	0.80
35:BA:776:G:C8	35:BA:776:G:C5'	2.64	0.80
35:BA:1530:C:O2'	35:BA:1531:C:H5'	1.82	0.80
49:BR:4:LEU:HD12	49:BR:5:LYS:H	1.45	0.80
52:BU:92:ARG:HH22	53:BV:10:LYS:HA	1.45	0.80
54:BW:9:TYR:H	54:BW:102:HIS:HD2	1.26	0.80
1:CA:645:C:H2'	1:CA:646:U:C6	2.16	0.80
12:CL:41:THR:CG2	24:CY:7:HIS:HA	2.11	0.80
26:D1:45:ASN:ND2	35:DA:2090:G:H21	1.78	0.80
35:DA:1826:G:H4'	38:DD:242:ARG:HE	1.45	0.80
6:AF:86:ARG:O	6:AF:87:ARG:HB2	1.79	0.80
24:AY:42:ARG:HA	24:AY:52:TYR:O	1.81	0.80
39:BE:100:GLU:O	39:BE:172:VAL:HG23	1.80	0.80
50:BS:83:LYS:HG2	50:BS:105:ALA:HB3	1.61	0.80
57:BZ:166:SER:HB2	57:BZ:168:GLU:H	1.46	0.80
1:CA:37:U:C4	1:CA:38:G:C5	2.69	0.80
1:CA:837:G:H2'	1:CA:838:G:C8	2.16	0.80
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.47	0.80
35:DA:1378:A:O2'	35:DA:1379:A:H5''	1.82	0.80
35:DA:1913:A:OP2	35:DA:1913:A:C3'	2.30	0.80
45:DN:34:LEU:HD21	45:DN:120:LEU:HB2	1.63	0.80
53:DV:38:LEU:HD23	53:DV:39:LEU:N	1.97	0.80
57:DZ:79:ARG:O	57:DZ:80:ARG:HB2	1.81	0.80
1:AA:693:G:H2'	1:AA:694:A:C8	2.17	0.80
22:AW:28:C:H2'	22:AW:29:G:C8	2.17	0.80
22:AW:34:C:C2	23:AX:14:A:C2	2.70	0.80
23:AX:22:A:N3	23:AX:22:A:C4'	2.44	0.80
24:AY:82:GLN:O	24:AY:83:LEU:CD2	2.29	0.80
41:BG:56:ALA:HB2	41:BG:153:ARG:HH21	1.46	0.80
57:BZ:109:ALA:O	57:BZ:113:ALA:HB3	1.81	0.80
1:CA:4:U:O4'	1:CA:5:U:C5'	2.30	0.80
41:DG:98:ARG:O	41:DG:101:ILE:HG12	1.82	0.80
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.47	0.80
22:AV:1:C:H42	22:AV:72:A:H61	1.29	0.80
22:AV:52:G:N3	22:AV:52:G:H2'	1.96	0.80
1:CA:34:C:C2'	1:CA:35:G:H5'	2.12	0.80
2:CB:197:VAL:HG21	2:CB:200:ILE:HG12	1.64	0.80
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:20:ARG:N	25:B0:20:ARG:HD2	1.97	0.80
27:B2:38:GLN:NE2	27:B2:44:LEU:HD22	1.97	0.80
47:BP:63:PRO:O	47:BP:65:ARG:N	2.14	0.80
50:BS:17:ARG:HA	50:BS:20:ARG:HH12	1.46	0.80
53:BV:19:LYS:HZ3	53:BV:20:LEU:H	1.26	0.80
1:CA:6:G:O2'	1:CA:298:A:O4'	2.00	0.80
2:CB:162:ILE:HD11	2:CB:184:VAL:HA	1.62	0.80
35:DA:1911:U:N3	35:DA:1918:A:N3	1.90	0.80
43:DI:129:THR:HG22	43:DI:130:TYR:H	1.47	0.80
1:AA:674:G:H2'	1:AA:675:A:H8	1.47	0.80
22:AV:54:U:C3'	22:AV:55:U:C4'	2.56	0.80
32:B7:8:ASN:C	32:B7:8:ASN:HD22	1.89	0.80
40:BF:28:ILE:HD12	40:BF:28:ILE:O	1.82	0.80
52:BU:91:ASP:O	52:BU:95:LEU:HB2	1.82	0.80
57:BZ:44:PHE:CE2	57:BZ:86:VAL:HG21	2.17	0.80
9:CI:115:GLY:O	9:CI:116:LYS:HG3	1.82	0.80
19:CS:6:LYS:HE3	19:CS:6:LYS:N	1.95	0.80
39:DE:2:LYS:HA	39:DE:84:PHE:CD2	2.17	0.80
51:DT:106:SER:N	51:DT:110:ILE:HD11	1.96	0.80
56:DY:10:GLY:HA2	56:DY:27:VAL:HG13	1.64	0.80
57:DZ:10:ARG:HH21	57:DZ:26:GLY:H	1.29	0.80
22:AW:3:C:H2'	22:AW:4:G:H5'	1.61	0.79
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.29	0.79
35:BA:2101:G:H2'	35:BA:2102:U:O4'	1.82	0.79
47:BP:16:ARG:CZ	47:BP:18:ARG:HG2	2.12	0.79
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.16	0.79
9:CI:111:ARG:HG2	9:CI:112:LYS:N	1.96	0.79
22:CV:55:U:H5'	22:CV:55:U:H6	1.46	0.79
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.47	0.79
38:DD:221:VAL:HG23	38:DD:226:MET:HE3	1.62	0.79
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.65	0.79
40:DF:66:PRO:O	40:DF:67:GLN:HB3	1.80	0.79
42:DH:8:PRO:O	42:DH:9:ILE:CD1	2.30	0.79
49:DR:7:GLY:O	49:DR:8:ARG:CG	2.29	0.79
51:DT:100:TYR:HD2	51:DT:103:ARG:HH21	1.29	0.79
2:AB:162:ILE:HD11	2:AB:184:VAL:HA	1.63	0.79
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.11	0.79
3:CC:32:LEU:HB3	3:CC:59:ARG:HH22	1.46	0.79
4:CD:120:LEU:HB3	4:CD:126:ILE:HD11	1.63	0.79
7:CG:15:ASP:HB3	7:CG:19:GLY:N	1.95	0.79
10:CJ:28:ARG:HG3	10:CJ:34:VAL:H	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:6:LYS:H	19:CS:6:LYS:CE	1.93	0.79
48:DQ:12:GLN:HE21	48:DQ:73:PRO:HD3	1.47	0.79
2:AB:8:LYS:HD3	2:AB:217:ARG:NH2	1.96	0.79
13:AM:57:ARG:HH12	29:B4:34:GLU:HG3	1.45	0.79
22:AV:53:G:C8	22:AV:53:G:C5'	2.65	0.79
23:AX:15:A:OP1	23:AX:15:A:C4'	2.30	0.79
24:AY:23:ASP:O	24:AY:25:LYS:CG	2.29	0.79
24:AY:96:LEU:CD1	24:AY:96:LEU:O	2.30	0.79
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.46	0.79
39:BE:60:ASN:OD1	39:BE:62:PRO:HD3	1.81	0.79
42:BH:8:PRO:O	42:BH:9:ILE:CD1	2.30	0.79
45:BN:125:GLY:HA3	45:BN:126:PRO:O	1.82	0.79
57:BZ:157:LEU:HD23	57:BZ:157:LEU:H	1.45	0.79
1:CA:973:G:H3'	1:CA:974:A:H5''	1.64	0.79
3:CC:16:ARG:HE	3:CC:54:ARG:HH21	1.30	0.79
27:D2:55:ARG:HH21	27:D2:55:ARG:HG2	1.48	0.79
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.47	0.79
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.64	0.79
22:AV:54:U:H6	22:AV:54:U:H5''	1.46	0.79
35:BA:141:A:H8	35:BA:1408:C:O2'	1.66	0.79
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	1.83	0.79
56:BY:95:LYS:HZ2	56:BY:99:CYS:H	1.26	0.79
1:CA:1206:G:C2'	1:CA:1207:G:O5'	2.30	0.79
3:CC:35:GLU:O	3:CC:38:ARG:HG2	1.82	0.79
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.65	0.79
35:DA:1019:U:HO2'	35:DA:1021:A:H2	1.26	0.79
42:DH:98:LEU:HB2	42:DH:125:VAL:CG2	2.10	0.79
47:DP:41:ARG:NE	47:DP:41:ARG:CA	2.45	0.79
1:AA:671:G:H2'	1:AA:672:U:H6	1.47	0.79
6:AF:69:GLU:HG2	6:AF:70:ASP:H	1.47	0.79
17:AQ:7:THR:HG22	17:AQ:58:GLU:HG2	1.63	0.79
29:B4:9:LEU:HD21	41:BG:101:ILE:CD1	2.12	0.79
31:B6:33:LYS:HE2	31:B6:33:LYS:HA	1.64	0.79
35:BA:298:G:H5'	35:BA:299:A:OP1	1.82	0.79
35:BA:886:C:H4'	35:BA:888:C:H41	1.45	0.79
42:BH:144:VAL:HA	42:BH:147:ASN:HB2	1.65	0.79
51:BT:100:TYR:HD2	51:BT:103:ARG:HH21	1.29	0.79
6:CF:69:GLU:HG2	6:CF:70:ASP:H	1.47	0.79
52:DU:102:GLU:HG3	53:DV:2:PHE:HZ	1.46	0.79
57:DZ:165:VAL:HG12	57:DZ:166:SER:N	1.95	0.79
1:AA:1373:G:H5''	7:AG:36:LYS:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1530:C:O2'	35:BA:1531:C:C5'	2.30	0.79
45:BN:34:LEU:HD21	45:BN:120:LEU:HB2	1.64	0.79
49:BR:24:GLN:NE2	49:BR:36:THR:HG21	1.98	0.79
53:BV:19:LYS:NZ	53:BV:20:LEU:H	1.81	0.79
41:DG:133:LEU:HD13	41:DG:134:GLY:N	1.98	0.79
3:AC:32:LEU:HB3	3:AC:59:ARG:HH22	1.46	0.79
8:AH:12:ARG:NH1	8:AH:26:VAL:HA	1.97	0.79
23:AX:22:A:H5''	23:AX:22:A:C2	2.17	0.79
27:B2:65:ASN:HB3	27:B2:69:ARG:NH2	1.97	0.79
56:BY:49:VAL:O	56:BY:50:ARG:HB2	1.81	0.79
1:CA:400:C:O2'	1:CA:401:C:H5'	1.81	0.79
1:CA:1414:U:H3	1:CA:1487:G:H1	1.27	0.79
6:CF:86:ARG:O	6:CF:87:ARG:HB2	1.79	0.79
31:D6:33:LYS:HE2	31:D6:33:LYS:HA	1.65	0.79
38:DD:15:PHE:O	38:DD:205:VAL:HG11	1.83	0.79
43:DI:82:ARG:HB2	43:DI:145:VAL:N	1.96	0.79
46:DO:88:ASN:HD21	46:DO:90:GLN:HB2	1.46	0.79
49:DR:7:GLY:C	49:DR:8:ARG:HG3	2.07	0.79
53:DV:99:ILE:H	53:DV:99:ILE:HD13	1.47	0.79
1:AA:973:G:H3'	1:AA:974:A:H5''	1.63	0.79
1:AA:1493:A3P:O4P	24:AY:34:GLN:HB3	1.83	0.79
3:AC:35:GLU:O	3:AC:38:ARG:HG2	1.82	0.79
18:AR:31:LEU:HD23	18:AR:31:LEU:H	1.46	0.79
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.46	0.79
35:BA:1427:A:H4'	35:BA:1428:C:O5'	1.81	0.79
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.46	0.79
51:BT:125:ARG:O	51:BT:128:GLU:HG3	1.82	0.79
52:BU:102:GLU:HG3	53:BV:2:PHE:HZ	1.46	0.79
1:CA:1293:G:O2'	1:CA:1294:G:H8	1.64	0.79
22:CV:66:C:H2'	22:CV:67:C:C6	2.18	0.79
35:DA:90:U:H1'	35:DA:92:A:H8	1.35	0.79
42:DH:144:VAL:HA	42:DH:147:ASN:HB2	1.65	0.79
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.82	0.79
2:AB:97:TRP:HZ3	2:AB:172:ILE:HB	1.45	0.79
7:AG:15:ASP:HB3	7:AG:19:GLY:N	1.97	0.79
10:AJ:28:ARG:HG3	10:AJ:34:VAL:H	1.46	0.79
29:B4:5:ILE:HD12	41:BG:67:LYS:HZ1	1.47	0.79
48:BQ:12:GLN:HE21	48:BQ:73:PRO:CD	1.96	0.79
52:BU:108:GLU:HG3	53:BV:44:LYS:CD	2.11	0.79
53:BV:5:VAL:HG21	53:BV:35:LEU:HG	1.63	0.79
53:BV:38:LEU:HD23	53:BV:39:LEU:N	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1833:U:H2'	35:DA:1834:U:H6	1.47	0.79
35:DA:1910:G:O2'	35:DA:1911:U:C5'	2.30	0.79
35:DA:2473:U:O2'	35:DA:2474:C:C5'	2.30	0.79
38:DD:30:GLU:CD	38:DD:63:ARG:HH21	1.90	0.79
13:AM:82:MET:HB2	13:AM:93:ARG:NH1	1.98	0.79
15:AO:26:GLU:HG3	15:AO:81:LEU:HD22	1.64	0.79
36:BB:14:U:O2'	36:BB:15:A:H5''	1.83	0.79
43:BI:77:LEU:HD13	43:BI:140:LEU:HG	1.65	0.79
56:BY:2:ARG:N	56:BY:4:LYS:HE3	1.98	0.79
9:CI:65:VAL:HG11	9:CI:77:ILE:HD11	1.65	0.79
31:D6:28:ARG:HA	31:D6:32:ASN:HD22	1.47	0.79
41:DG:47:LYS:HD2	41:DG:82:LEU:HD13	1.65	0.79
8:AH:16:ALA:O	8:AH:19:VAL:HG22	1.83	0.78
21:AU:6:ARG:HE	21:AU:15:ARG:HH22	1.30	0.78
24:AY:73:GLY:HA3	24:AY:82:GLN:HE21	1.48	0.78
35:BA:1170:G:H1	35:BA:1179:C:H42	1.28	0.78
40:BF:1:MET:O	40:BF:3:GLU:HG2	1.83	0.78
12:CL:41:THR:HG23	24:CY:7:HIS:CA	2.12	0.78
43:DI:13:GLY:HA3	43:DI:17:GLN:OE1	1.82	0.78
47:DP:23:PRO:O	47:DP:33:ARG:HD2	1.82	0.78
51:DT:125:ARG:O	51:DT:128:GLU:HG3	1.84	0.78
56:DY:7:VAL:C	56:DY:8:LYS:HD2	2.07	0.78
57:DZ:126:VAL:HA	57:DZ:163:LEU:HA	1.65	0.78
12:AL:4:ILE:O	12:AL:8:VAL:HG23	1.83	0.78
23:AX:13:A:C5'	23:AX:14:A:C5'	2.58	0.78
23:AX:21:C:C6	23:AX:21:C:O5'	2.33	0.78
51:BT:82:LEU:H	51:BT:82:LEU:HD12	1.48	0.78
54:BW:6:ILE:HG12	54:BW:104:THR:OG1	1.84	0.78
48:DQ:12:GLN:HE21	48:DQ:73:PRO:CD	1.95	0.78
8:AH:112:LEU:HA	8:AH:134:ILE:HG12	1.63	0.78
20:AT:13:LEU:HD13	20:AT:17:ARG:HH12	1.48	0.78
1:CA:1446:U:H4'	1:CA:1447:A:N7	1.97	0.78
6:CF:61:LEU:HB3	6:CF:63:TYR:HE2	1.49	0.78
8:CH:12:ARG:NH1	8:CH:26:VAL:HA	1.98	0.78
21:CU:6:ARG:HH21	21:CU:15:ARG:NH2	1.81	0.78
35:DA:2726:U:H4'	46:DO:1:MET:HE1	1.64	0.78
38:DD:25:THR:HG22	38:DD:26:LYS:HD2	1.64	0.78
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.48	0.78
3:AC:16:ARG:HE	3:AC:54:ARG:HH21	1.28	0.78
36:BB:20:C:C2'	36:BB:21:G:H5''	2.12	0.78
43:BI:82:ARG:HB2	43:BI:145:VAL:N	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:172:ARG:HH21	3:CC:174:PRO:HG2	1.49	0.78
35:DA:652:C:O2	35:DA:652:C:H2'	1.83	0.78
37:DC:211:SER:HA	37:DC:220:PRO:HA	1.66	0.78
38:DD:206:LEU:HD23	38:DD:211:ARG:NH1	1.97	0.78
40:DF:201:VAL:HA	40:DF:204:ASN:HD22	1.49	0.78
3:AC:40:ARG:HA	3:AC:43:LEU:HD12	1.64	0.78
5:AE:11:ILE:HG21	5:AE:105:VAL:HG22	1.65	0.78
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.48	0.78
21:AU:6:ARG:HH21	21:AU:15:ARG:NH2	1.82	0.78
23:AX:13:A:H3'	23:AX:14:A:C5'	2.11	0.78
35:BA:887:A:H2	35:BA:889:C:H2'	1.48	0.78
38:BD:24:ILE:HD12	38:BD:25:THR:N	1.98	0.78
39:BE:195:LEU:HD12	39:BE:196:VAL:H	1.45	0.78
43:BI:5:LEU:HD12	43:BI:17:GLN:HB3	1.66	0.78
1:CA:1225:A:C6	1:CA:1226:C:C4	2.71	0.78
1:CA:1440:C:H1'	1:CA:1462:G:N2	1.99	0.78
5:CE:105:VAL:H	5:CE:106:PRO:HD2	1.48	0.78
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.09	0.78
35:DA:2178:C:H3'	35:DA:2179:C:H5''	1.66	0.78
47:DP:23:PRO:HD2	47:DP:33:ARG:NH2	1.98	0.78
1:AA:718:G:H5'	11:AK:117:ASN:HB2	1.66	0.78
7:AG:9:VAL:HG11	7:AG:94:ARG:NH1	1.99	0.78
46:BO:88:ASN:HD21	46:BO:90:GLN:HB2	1.47	0.78
22:CV:36:U:H2'	22:CV:37:A:H4'	1.66	0.78
24:CY:4:ASP:HB3	24:CY:7:HIS:O	1.84	0.78
35:DA:92:A:C2	35:DA:93:G:O4'	2.36	0.78
35:DA:539:G:H2'	35:DA:540:C:H6	1.49	0.78
35:DA:1915:U:C4	35:DA:1916:A:C8	2.71	0.78
35:DA:1915:U:C6	35:DA:1916:A:C8	2.70	0.78
47:DP:101:VAL:HG13	47:DP:106:LEU:HD23	1.66	0.78
6:AF:61:LEU:HB3	6:AF:63:TYR:HE2	1.48	0.78
10:AJ:50:ILE:HA	10:AJ:60:ARG:HD3	1.66	0.78
17:AQ:65:ILE:HD12	17:AQ:65:ILE:N	1.99	0.78
36:BB:74:U:H2'	36:BB:75:G:C5'	2.14	0.78
38:BD:121:PRO:HB3	38:BD:135:PHE:CE2	2.18	0.78
45:BN:67:LEU:H	45:BN:67:LEU:HD12	1.49	0.78
7:CG:25:ALA:HA	7:CG:28:ASN:ND2	1.99	0.78
35:DA:1658:C:OP1	39:DE:132:HIS:CE1	2.37	0.78
50:DS:17:ARG:HA	50:DS:20:ARG:HH12	1.48	0.78
31:B6:27:LYS:HD2	35:BA:2285:C:OP2	1.84	0.78
35:BA:2178:C:H3'	35:BA:2179:C:H5''	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:132:LYS:HE3	47:BP:132:LYS:HA	1.66	0.78
1:CA:255:G:H2'	1:CA:256:U:H6	1.49	0.78
7:CG:9:VAL:HG11	7:CG:94:ARG:NH1	1.98	0.78
13:CM:82:MET:HB2	13:CM:93:ARG:NH1	1.99	0.78
1:AA:642:A:N3	8:AH:113:SER:HB3	1.99	0.78
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.84	0.78
23:AX:21:C:O2'	23:AX:22:A:C2	2.34	0.78
24:AY:13:PRO:O	24:AY:13:PRO:CG	2.30	0.78
41:BG:96:ARG:O	41:BG:99:MET:HG2	1.84	0.78
57:BZ:103:ARG:NH1	57:BZ:136:PHE:HB3	1.98	0.78
1:CA:1107:C:H2'	1:CA:1108:G:H5''	1.66	0.78
1:CA:1502:A:H2	1:CA:1505:G:H22	1.32	0.78
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.64	0.78
5:CE:11:ILE:HG21	5:CE:105:VAL:HG22	1.66	0.78
8:CH:121:ASP:HB2	8:CH:125:ARG:HH12	1.49	0.78
22:CV:24:U:H2'	22:CV:25:C:O4'	1.84	0.78
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.19	0.78
40:DF:165:ARG:HH11	40:DF:165:ARG:HB3	1.49	0.78
47:DP:18:ARG:HB3	47:DP:18:ARG:HH11	1.48	0.78
1:AA:178:C:C2'	1:AA:179:A:H5''	2.12	0.78
1:AA:405:U:H3'	1:AA:406:G:H5'	1.66	0.78
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.49	0.78
35:BA:910:A:H62	48:BQ:12:GLN:HA	1.49	0.78
35:BA:1528(A):A:C5	35:BA:1529:G:C8	2.72	0.78
39:BE:92:THR:O	39:BE:95:ILE:HG12	1.84	0.78
40:BF:165:ARG:HH11	40:BF:165:ARG:HB3	1.47	0.78
36:DB:106:G:H5''	57:DZ:31:ARG:HB3	1.64	0.78
38:DD:172:TYR:CD1	38:DD:186:HIS:HA	2.18	0.78
12:AL:41:THR:HB	24:AY:9:TYR:CE2	2.19	0.77
38:BD:43:ARG:NH1	38:BD:44:ASN:ND2	2.31	0.77
42:BH:83:TYR:CB	42:BH:135:GLY:H	1.97	0.77
55:BX:54:VAL:HG22	55:BX:81:VAL:HG12	1.65	0.77
1:CA:836:G:O6	1:CA:837:G:C6	2.37	0.77
58:CX:16:A:N3	58:CX:17:U:H6	1.79	0.77
36:DB:74:U:H2'	36:DB:75:G:C5'	2.13	0.77
37:DC:82:LYS:HB3	37:DC:82:LYS:HZ2	1.49	0.77
43:DI:123:LEU:HD11	43:DI:144:VAL:HG22	1.64	0.77
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.65	0.77
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	1.98	0.77
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.50	0.77
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:48:GLN:NE2	39:BE:78:LEU:HD22	1.99	0.77
1:CA:37:U:O2'	1:CA:38:G:C5'	2.30	0.77
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.49	0.77
35:DA:17:G:H4'	52:DU:25:TRP:CH2	2.19	0.77
35:DA:298:G:H5'	35:DA:299:A:OP1	1.85	0.77
35:DA:1911:U:O2	35:DA:1918:A:N1	2.08	0.77
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	1.84	0.77
36:DB:20:C:C2'	36:DB:21:G:H5''	2.14	0.77
3:AC:175:LEU:O	3:AC:175:LEU:HD23	1.84	0.77
24:AY:64:TYR:HB2	24:AY:92:ILE:HD11	1.64	0.77
37:BC:211:SER:HA	37:BC:220:PRO:HA	1.65	0.77
38:BD:172:TYR:CD1	38:BD:186:HIS:HA	2.19	0.77
52:BU:92:ARG:NH2	53:BV:10:LYS:HA	2.00	0.77
1:CA:33:A:H2'	1:CA:34:C:C5'	2.09	0.77
1:CA:36:C:C3'	1:CA:37:U:H5'	2.15	0.77
3:CC:47:LEU:HD23	3:CC:52:LEU:HD13	1.65	0.77
3:CC:181:ASN:C	3:CC:182:ILE:HD12	2.10	0.77
8:CH:58:TYR:O	8:CH:59:LEU:HD23	1.83	0.77
15:CO:26:GLU:HG3	15:CO:81:LEU:HD22	1.67	0.77
58:CX:16:A:C4	58:CX:17:U:C6	2.73	0.77
35:DA:1697:G:H3'	35:DA:1698:A:C5'	2.12	0.77
35:DA:2334:G:N3	50:DS:18:ILE:HD11	1.99	0.77
36:DB:75:G:H5'	36:DB:75:G:H8	1.49	0.77
39:DE:195:LEU:HD12	39:DE:196:VAL:H	1.46	0.77
43:DI:42:SER:HA	43:DI:45:LYS:HE2	1.67	0.77
4:AD:120:LEU:HB3	4:AD:126:ILE:HD11	1.65	0.77
8:AH:91:ARG:HH11	8:AH:91:ARG:HG2	1.50	0.77
9:AI:65:VAL:HG11	9:AI:77:ILE:HD11	1.65	0.77
14:AN:33:VAL:HA	14:AN:40:CYS:HA	1.67	0.77
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.65	0.77
35:BA:612:C:H2'	35:BA:613:G:C5'	2.14	0.77
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.18	0.77
45:BN:90:MET:HE2	45:BN:90:MET:HA	1.64	0.77
49:BR:104:ARG:HD2	49:BR:109:ALA:HB3	1.66	0.77
13:CM:83:ASP:CG	13:CM:84:ILE:H	1.92	0.77
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.84	0.77
38:DD:49:ILE:HD11	38:DD:52:ARG:HA	1.65	0.77
40:DF:103:LYS:HA	40:DF:106:ARG:HG3	1.66	0.77
41:DG:165:THR:OG1	41:DG:168:GLU:HG2	1.83	0.77
48:DQ:58:PHE:HD1	48:DQ:58:PHE:O	1.67	0.77
3:AC:47:LEU:HD23	3:AC:52:LEU:HD13	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:115:ARG:HB2	7:AG:118:VAL:HG23	1.67	0.77
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.50	0.77
35:BA:806:C:OP2	47:BP:39:LYS:HD3	1.84	0.77
1:CA:693:G:H2'	1:CA:694:A:C8	2.19	0.77
7:CG:115:ARG:HB2	7:CG:118:VAL:HG23	1.66	0.77
33:D8:51:ALA:H	33:D8:53:PRO:CD	1.94	0.77
33:D8:59:LYS:CD	47:DP:50:ARG:HB3	2.12	0.77
35:DA:1639:U:C2'	35:DA:1640:C:H5''	2.15	0.77
35:DA:2472:G:H3'	35:DA:2473:U:H5''	1.61	0.77
38:DD:121:PRO:HB3	38:DD:135:PHE:CE2	2.20	0.77
41:DG:114:ILE:HD12	41:DG:117:PHE:HD2	1.49	0.77
5:AE:15:ARG:HH12	23:AX:24:A:H5'	1.47	0.77
24:AY:55:ASP:HB3	24:AY:58:ALA:HB3	1.66	0.77
30:B5:2:ALA:HA	35:BA:2015:A:H1'	1.67	0.77
35:BA:330:A:H2	35:BA:1210:A:H2'	1.49	0.77
35:BA:747:U:H1'	54:BW:92:ARG:NH1	2.00	0.77
35:BA:1899:G:H22	35:BA:1902:C:H41	1.31	0.77
41:BG:16:ARG:HH21	41:BG:31:VAL:HB	1.49	0.77
41:BG:121:ASN:ND2	41:BG:123:ASN:H	1.83	0.77
43:BI:42:SER:HA	43:BI:45:LYS:HE2	1.67	0.77
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.00	0.77
2:CB:8:LYS:HD3	2:CB:217:ARG:NH2	1.99	0.77
2:CB:17:PHE:CD1	2:CB:44:LEU:HD21	2.17	0.77
22:CW:47:U:H3'	22:CW:48:C:C5'	2.15	0.77
58:CX:16:A:C2	58:CX:17:U:N1	2.53	0.77
24:CY:6:GLY:H	24:CY:7:HIS:CE1	2.02	0.77
25:D0:11:ARG:NH1	25:D0:11:ARG:HB2	2.00	0.77
35:DA:330:A:H2	35:DA:1210:A:H2'	1.49	0.77
35:DA:806:C:OP2	47:DP:39:LYS:HD3	1.85	0.77
41:DG:106:LEU:O	41:DG:110:ALA:HB3	1.83	0.77
42:DH:83:TYR:CB	42:DH:135:GLY:H	1.97	0.77
4:AD:64:LEU:O	4:AD:64:LEU:HD23	1.84	0.77
5:AE:103:GLY:H	5:AE:106:PRO:CG	1.97	0.77
23:AX:19:U:H2'	23:AX:20:U:H5	1.49	0.77
35:BA:661:C:O3'	47:BP:18:ARG:HD2	1.85	0.77
35:BA:911:A:H2'	48:BQ:9:TYR:OH	1.84	0.77
35:BA:991:C:H5'	35:BA:991:C:H6	1.49	0.77
43:BI:82:ARG:HD3	43:BI:82:ARG:N	1.99	0.77
56:BY:7:VAL:C	56:BY:8:LYS:HD2	2.10	0.77
1:CA:501:C:H2'	1:CA:502:G:H8	1.48	0.77
1:CA:762:C:H2'	1:CA:763:G:H8	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:40:ARG:HA	3:CC:43:LEU:HD12	1.65	0.77
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.15	0.77
7:CG:79:ARG:NH2	22:CW:34:C:H42	1.82	0.77
22:CW:26:G:H5''	22:CW:27:U:C5	2.19	0.77
35:DA:92:A:H2	35:DA:93:G:H1'	1.48	0.77
35:DA:2630:G:H1'	35:DA:2894:G:H1'	1.67	0.77
41:DG:139:LEU:HA	41:DG:144:ILE:CG2	2.14	0.77
47:DP:132:LYS:HA	47:DP:132:LYS:HE3	1.66	0.77
56:DY:8:LYS:HD2	56:DY:8:LYS:N	2.00	0.77
7:AG:25:ALA:HA	7:AG:28:ASN:ND2	2.00	0.77
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.65	0.77
35:BA:1887:C:H2'	35:BA:1888:G:H5''	1.67	0.77
52:BU:74:LEU:H	52:BU:74:LEU:HD12	1.50	0.77
1:CA:735:C:H2'	1:CA:736:C:C6	2.16	0.77
1:CA:1137:C:H4'	1:CA:1138:G:N2	2.00	0.77
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.67	0.77
20:CT:13:LEU:HD13	20:CT:17:ARG:HH12	1.49	0.77
22:CV:66:C:H2'	22:CV:67:C:H6	1.49	0.77
35:DA:779:U:OP1	38:DD:49:ILE:HG22	1.85	0.77
35:DA:963:U:H2'	35:DA:964:C:C6	2.20	0.77
55:DX:35:THR:O	55:DX:39:ILE:HG12	1.84	0.77
57:DZ:72:ARG:HG2	57:DZ:89:PHE:HB2	1.67	0.77
1:AA:1004:A:H5''	1:AA:1025:U:H3	1.49	0.77
12:AL:81:LEU:HD23	12:AL:98:VAL:HG21	1.65	0.77
24:AY:33:LYS:CB	24:AY:36:GLY:N	2.44	0.77
26:B1:7:ILE:HG21	26:B1:66:HIS:HB3	1.67	0.77
31:B6:28:ARG:HA	31:B6:32:ASN:HD22	1.47	0.77
35:BA:1465:G:O4'	35:BA:1528:A:H8	1.68	0.77
35:BA:2685:G:H5'	46:BO:68:GLU:OE2	1.85	0.77
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.50	0.77
7:CG:77:SER:HA	7:CG:86:GLN:HA	1.67	0.77
10:CJ:34:VAL:HG12	10:CJ:35:SER:N	2.00	0.77
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG12	1.67	0.77
35:DA:652:C:O2	35:DA:652:C:C2'	2.33	0.77
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.00	0.77
41:DG:32:PRO:HB2	41:DG:172:LEU:HD22	1.67	0.77
41:DG:139:LEU:HA	41:DG:144:ILE:HG21	1.67	0.77
52:DU:92:ARG:NH2	53:DV:10:LYS:HA	1.99	0.77
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.50	0.77
4:AD:126:ILE:HD12	4:AD:126:ILE:N	1.99	0.77
12:AL:116:LYS:HB2	12:AL:117:TYR:HD1	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:19:ILE:HG22	16:AP:36:ILE:HD11	1.65	0.77
47:BP:101:VAL:HG13	47:BP:106:LEU:HD23	1.67	0.77
1:CA:671:G:H2'	1:CA:672:U:H6	1.48	0.77
1:CA:1506:U:OP2	58:CX:15:A:OP1	2.03	0.77
2:CB:55:PHE:HB3	2:CB:221:LEU:HD12	1.67	0.77
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.50	0.77
22:CV:4:G:HO2'	22:CV:5:G:H8	1.30	0.77
35:DA:597:U:H4'	47:DP:15:ARG:HH11	1.50	0.77
38:DD:206:LEU:HD23	38:DD:211:ARG:HH11	1.49	0.77
46:DO:47:ILE:HG12	46:DO:48:PRO:HD2	1.65	0.77
49:DR:55:ALA:HB2	49:DR:79:LEU:HD13	1.66	0.77
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.67	0.76
7:AG:77:SER:HA	7:AG:86:GLN:HA	1.67	0.76
22:AV:53:G:N2	22:AV:62:C:O2	2.17	0.76
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.33	0.76
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.15	0.76
35:BA:1899:G:H22	35:BA:1902:C:N4	1.80	0.76
1:CA:37:U:O2	1:CA:397:A:N6	2.15	0.76
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.67	0.76
27:D2:65:ASN:HD22	27:D2:69:ARG:NH2	1.81	0.76
43:DI:123:LEU:HD13	43:DI:124:GLY:H	1.50	0.76
51:DT:82:LEU:H	51:DT:82:LEU:HD12	1.49	0.76
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.50	0.76
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.20	0.76
2:AB:58:ILE:HG23	2:AB:222:ILE:HD11	1.68	0.76
24:AY:40:ARG:HG3	24:AY:53:GLU:HB3	1.67	0.76
35:BA:197:A:H8	35:BA:197:A:H5'	1.51	0.76
35:BA:925:C:H2'	35:BA:926:A:H5''	1.66	0.76
35:BA:1915:U:C3'	35:BA:1916:A:H5''	2.14	0.76
1:CA:250:A:H4'	1:CA:251:G:O5'	1.84	0.76
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.66	0.76
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.03	0.76
36:DB:14:U:O2'	36:DB:15:A:H5''	1.84	0.76
39:DE:92:THR:O	39:DE:95:ILE:HG12	1.84	0.76
43:DI:82:ARG:HD3	43:DI:82:ARG:N	2.00	0.76
54:DW:1:MET:HG3	54:DW:64:MET:HE3	1.66	0.76
55:DX:84:ALA:HB3	55:DX:87:GLN:NE2	1.99	0.76
5:AE:78:HIS:HD2	8:AH:107:LEU:HD12	1.49	0.76
11:AK:88:GLY:C	11:AK:90:GLY:H	1.92	0.76
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	2.00	0.76
42:BH:12:PRO:HD2	42:BH:49:VAL:HA	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:32:THR:HG22	45:BN:37:LYS:HB2	1.67	0.76
47:BP:75:ILE:HD13	47:BP:77:ARG:HH12	1.50	0.76
54:BW:9:TYR:H	54:BW:102:HIS:CD2	2.04	0.76
1:CA:1206:G:H2'	1:CA:1207:G:O5'	1.85	0.76
11:CK:88:GLY:C	11:CK:90:GLY:H	1.93	0.76
35:DA:597:U:H4'	47:DP:15:ARG:NH1	2.00	0.76
35:DA:1887:C:H2'	35:DA:1888:G:H5''	1.67	0.76
1:AA:735:C:H2'	1:AA:736:C:C6	2.18	0.76
1:AA:1060:C:C6	3:AC:2:GLY:HA2	2.19	0.76
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.49	0.76
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.14	0.76
32:B7:20:ALA:HA	32:B7:23:ARG:HE	1.51	0.76
36:BB:75:G:H8	36:BB:75:G:H5'	1.50	0.76
38:BD:206:LEU:HD23	38:BD:211:ARG:HH11	1.50	0.76
39:BE:2:LYS:HA	39:BE:84:PHE:CD2	2.21	0.76
41:BG:51:ARG:HA	41:BG:51:ARG:NE	2.00	0.76
41:BG:71:THR:HG22	41:BG:89:GLY:C	2.10	0.76
47:BP:23:PRO:O	47:BP:33:ARG:HD2	1.84	0.76
48:BQ:58:PHE:HD1	48:BQ:58:PHE:O	1.69	0.76
49:BR:55:ALA:HB2	49:BR:79:LEU:HD13	1.67	0.76
1:CA:1492:A:O2'	24:CY:9:TYR:CD1	2.38	0.76
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.66	0.76
35:DA:780:G:H21	35:DA:783:A:H62	1.34	0.76
35:DA:1766:U:H2'	35:DA:1767:C:H6	1.51	0.76
35:DA:2468:G:H22	35:DA:2481:G:H2'	1.49	0.76
45:DN:25:ARG:HH11	45:DN:25:ARG:HG3	1.48	0.76
47:DP:9:ASN:N	47:DP:10:PRO:HD3	2.00	0.76
47:DP:16:ARG:HH11	47:DP:16:ARG:C	1.94	0.76
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.64	0.76
5:AE:11:ILE:HD12	5:AE:31:LEU:HD12	1.67	0.76
32:B7:5:TRP:NE1	32:B7:7:PRO:HG3	2.00	0.76
38:BD:30:GLU:CD	38:BD:63:ARG:HH21	1.94	0.76
41:BG:40:ASN:HB2	41:BG:91:ARG:HB2	1.68	0.76
46:BO:104:ARG:HH21	51:BT:33:LYS:HZ3	1.29	0.76
47:BP:16:ARG:C	47:BP:16:ARG:HH11	1.92	0.76
54:BW:64:MET:HE2	54:BW:109:GLU:HG2	1.67	0.76
56:BY:10:GLY:HA2	56:BY:27:VAL:HG13	1.66	0.76
2:CB:114:ARG:O	2:CB:118:LEU:HG	1.86	0.76
8:CH:51:VAL:CG1	8:CH:60:ARG:HD3	2.13	0.76
41:DG:75:LYS:HG2	41:DG:76:SER:H	1.51	0.76
45:DN:90:MET:HE2	45:DN:90:MET:HA	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1057:G:H4'	3:AC:196:LEU:O	1.85	0.76
1:AA:1124:G:H2'	1:AA:1125:U:H5'	1.67	0.76
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.00	0.76
4:AD:108:LEU:HD21	4:AD:183:GLY:HA3	1.67	0.76
22:AV:56:C:O5'	22:AV:56:C:C6	2.32	0.76
35:BA:1281:G:H8	35:BA:1281:G:H5'	1.50	0.76
1:CA:436:C:H4'	4:CD:157:LEU:HD11	1.67	0.76
1:CA:1225:A:C4	1:CA:1226:C:C5	2.74	0.76
14:CN:33:VAL:HA	14:CN:40:CYS:HA	1.66	0.76
21:CU:6:ARG:HE	21:CU:15:ARG:HH22	1.30	0.76
41:DG:121:ASN:HD22	41:DG:122:PRO:CD	1.98	0.76
43:DI:77:LEU:HD13	43:DI:140:LEU:HG	1.67	0.76
43:DI:127:VAL:HG22	43:DI:139:GLN:HA	1.67	0.76
47:DP:16:ARG:CZ	47:DP:18:ARG:HG2	2.14	0.76
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.68	0.76
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.01	0.76
1:AA:1493:A3P:O4P	24:AY:34:GLN:CB	2.34	0.76
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG12	1.66	0.76
22:AV:54:U:H5''	22:AV:55:U:H5''	1.66	0.76
31:B6:28:ARG:O	31:B6:32:ASN:HB3	1.86	0.76
33:B8:59:LYS:HB2	33:B8:59:LYS:NZ	1.98	0.76
35:BA:2298:A:H2'	35:BA:2299:G:O4'	1.86	0.76
40:BF:66:PRO:O	40:BF:67:GLN:HB3	1.85	0.76
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.01	0.76
42:BH:9:ILE:O	42:BH:9:ILE:CG1	2.30	0.76
45:BN:57:ALA:O	45:BN:58:ASP:O	2.04	0.76
1:CA:644:G:O2'	1:CA:645:C:H5''	1.85	0.76
1:CA:718:G:H5'	11:CK:117:ASN:HB2	1.68	0.76
8:CH:16:ALA:O	8:CH:19:VAL:HG22	1.84	0.76
13:CM:79:LYS:O	13:CM:82:MET:HB3	1.85	0.76
27:D2:47:ASN:ND2	35:DA:94(A):G:N3	2.34	0.76
35:DA:661:C:O3'	47:DP:18:ARG:HD2	1.84	0.76
35:DA:867:C:O2	35:DA:868:U:H5'	1.85	0.76
35:DA:2206:G:N2	35:DA:2207:G:H5'	2.01	0.76
37:DC:74:VAL:HB	37:DC:91:ALA:HB2	1.68	0.76
42:DH:54:ARG:HH11	42:DH:54:ARG:HG2	1.50	0.76
47:DP:75:ILE:HD13	47:DP:77:ARG:HH12	1.51	0.76
47:DP:79:ARG:O	47:DP:110:TYR:HB3	1.84	0.76
22:AV:59:A:H2'	22:AV:60:U:H5'	1.67	0.76
26:B1:50:ARG:NH2	35:BA:2199:A:H5'	2.01	0.76
35:BA:903:C:H2'	35:BA:904:C:H5''	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:74:VAL:HB	37:BC:91:ALA:HB2	1.68	0.76
57:BZ:103:ARG:O	57:BZ:138:GLU:HA	1.86	0.76
9:CI:85:LEU:HD12	9:CI:86:VAL:N	2.00	0.76
12:CL:81:LEU:HD23	12:CL:98:VAL:HG21	1.68	0.76
27:D2:44:LEU:H	27:D2:44:LEU:HD12	1.51	0.76
31:D6:28:ARG:O	31:D6:32:ASN:HB3	1.86	0.76
38:DD:125:ILE:CD1	38:DD:137:PRO:HD3	2.16	0.76
38:DD:181:GLU:HA	38:DD:272:ALA:HB3	1.67	0.76
1:AA:1112:C:H1'	3:AC:179:ARG:NH1	2.00	0.76
2:AB:197:VAL:HG21	2:AB:200:ILE:HG12	1.66	0.76
3:AC:162:GLN:HB3	23:AX:23:A:C5	2.20	0.76
8:AH:58:TYR:O	8:AH:59:LEU:HD23	1.86	0.76
32:B7:47:ARG:HB2	32:B7:48:LYS:NZ	2.01	0.76
51:BT:119:LYS:O	51:BT:123:GLN:HG2	1.86	0.76
55:BX:35:THR:O	55:BX:39:ILE:HG12	1.86	0.76
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.01	0.76
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.50	0.76
19:CS:33:THR:HG22	19:CS:35:SER:H	1.51	0.76
35:DA:887:A:H2	35:DA:889:C:H2'	1.49	0.76
39:DE:77:ILE:HG22	39:DE:78:LEU:HD12	1.67	0.76
56:DY:49:VAL:O	56:DY:50:ARG:HB2	1.85	0.76
40:BF:103:LYS:HA	40:BF:106:ARG:HG3	1.66	0.76
45:BN:25:ARG:HG3	45:BN:25:ARG:HH11	1.51	0.76
1:CA:11:G:H2'	1:CA:12:U:C5'	2.16	0.76
1:CA:940:C:H2'	1:CA:941:G:C8	2.21	0.76
1:CA:975:A:H4'	1:CA:976:G:H5''	1.68	0.76
1:CA:1508:G:H2'	1:CA:1509:C:H6	1.51	0.76
3:CC:18:TRP:CD1	14:CN:54:PRO:HA	2.21	0.76
5:CE:9:LYS:HB3	5:CE:112:LEU:HD11	1.68	0.76
35:DA:2298:A:H2'	35:DA:2299:G:O4'	1.86	0.76
40:DF:1:MET:O	40:DF:3:GLU:HG2	1.86	0.76
41:DG:16:ARG:HH22	41:DG:33:ARG:HD3	1.50	0.76
47:DP:126:VAL:HA	47:DP:145:PRO:HG2	1.66	0.76
26:B1:3:LYS:CG	26:B1:4:VAL:N	2.39	0.75
35:BA:1530:C:O2'	35:BA:1531:C:C4'	2.34	0.75
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.01	0.75
1:CA:976:G:N2	1:CA:1362:C:H2'	2.01	0.75
1:CA:1057:G:H4'	3:CC:196:LEU:O	1.86	0.75
3:CC:175:LEU:O	3:CC:175:LEU:HD23	1.87	0.75
5:CE:50:GLU:HB3	5:CE:53:LEU:HD12	1.68	0.75
36:DB:70:C:H2'	36:DB:71:C:H6	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:5:VAL:HG12	41:DG:6:ALA:H	1.52	0.75
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.10	0.75
40:BF:25:PRO:C	40:BF:27:GLU:H	1.95	0.75
54:BW:6:ILE:HA	54:BW:103:ILE:O	1.85	0.75
57:BZ:11:GLU:HB2	57:BZ:13:GLU:OE1	1.86	0.75
1:CA:1401:G:P	58:CX:19:G:H22	2.10	0.75
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.20	0.75
31:D6:27:LYS:HD2	35:DA:2285:C:OP2	1.86	0.75
35:DA:1914:C:O2	35:DA:1914:C:C5'	2.35	0.75
35:DA:2406:U:O4	47:DP:70:GLN:HB2	1.86	0.75
1:AA:619:U:N3	4:AD:135:LEU:HD11	2.01	0.75
1:AA:671:G:H2'	1:AA:672:U:C6	2.21	0.75
9:AI:85:LEU:HD12	9:AI:86:VAL:N	2.02	0.75
13:AM:23:TYR:HB3	13:AM:67:GLU:HA	1.68	0.75
41:BG:133:LEU:HD13	41:BG:134:GLY:N	2.01	0.75
42:BH:10:PRO:O	42:BH:10:PRO:CG	2.29	0.75
43:BI:61:ARG:HD3	43:BI:61:ARG:N	2.02	0.75
1:CA:590:C:H2'	1:CA:591:U:C5	2.21	0.75
2:CB:53:ARG:HA	2:CB:56:ARG:HG3	1.68	0.75
35:DA:676:A:H8	35:DA:2069:G:N2	1.81	0.75
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.87	0.75
35:DA:2682:U:C6	39:DE:11:MET:HE2	2.22	0.75
38:DD:32:SER:O	38:DD:36:PRO:HD3	1.86	0.75
40:DF:28:ILE:O	40:DF:28:ILE:HD12	1.86	0.75
13:AM:83:ASP:CG	13:AM:84:ILE:H	1.94	0.75
27:B2:10:LEU:HB3	27:B2:14:ARG:HH11	1.51	0.75
31:B6:12:GLU:HA	31:B6:23:THR:HA	1.68	0.75
35:BA:2726:U:H4'	46:BO:1:MET:HE1	1.66	0.75
40:BF:201:VAL:HA	40:BF:204:ASN:HD22	1.51	0.75
56:BY:88:LYS:NZ	56:BY:93:GLY:HA3	2.02	0.75
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.50	0.75
2:CB:19:HIS:CD2	2:CB:204:ASN:HA	2.22	0.75
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.69	0.75
35:DA:197:A:C8	35:DA:197:A:H5'	2.21	0.75
35:DA:2821:A:OP2	39:DE:110:GLY:HA3	1.85	0.75
41:DG:13:GLU:O	41:DG:14:GLU:HB2	1.87	0.75
41:DG:38:VAL:HB	41:DG:93:THR:HG22	1.68	0.75
43:DI:5:LEU:HD12	43:DI:17:GLN:HB3	1.66	0.75
49:DR:4:LEU:HD12	49:DR:5:LYS:H	1.51	0.75
51:DT:24:PRO:HA	51:DT:49:VAL:HG13	1.68	0.75
54:DW:6:ILE:HG12	54:DW:104:THR:OG1	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:142:A:H8	35:BA:1595:G:H21	1.35	0.75
38:BD:125:ILE:CD1	38:BD:137:PRO:HD3	2.17	0.75
53:BV:22:VAL:O	53:BV:23:GLU:HB2	1.87	0.75
53:BV:52:VAL:HG11	53:BV:55:ALA:HB3	1.68	0.75
1:CA:979:C:H3'	1:CA:980:C:C5'	2.17	0.75
2:CB:58:ILE:HG23	2:CB:222:ILE:HD11	1.67	0.75
13:CM:40:ASN:HD22	13:CM:43:THR:HG23	1.50	0.75
27:D2:13:ALA:O	27:D2:16:LEU:HB2	1.87	0.75
33:D8:32:LEU:HB3	33:D8:36:LYS:NZ	2.01	0.75
35:DA:747:U:H1'	54:DW:92:ARG:NH1	2.02	0.75
37:DC:82:LYS:HZ1	37:DC:94:VAL:HG11	1.51	0.75
40:DF:25:PRO:C	40:DF:27:GLU:H	1.95	0.75
45:DN:57:ALA:O	45:DN:58:ASP:O	2.05	0.75
45:DN:121:LYS:HD2	45:DN:121:LYS:N	2.02	0.75
49:DR:7:GLY:O	49:DR:8:ARG:HB2	1.87	0.75
51:DT:119:LYS:O	51:DT:123:GLN:HG2	1.87	0.75
53:DV:5:VAL:HG21	53:DV:35:LEU:HG	1.69	0.75
56:DY:2:ARG:N	56:DY:4:LYS:HE3	2.00	0.75
1:AA:639:G:H2'	1:AA:640:A:H8	1.52	0.75
1:AA:693:G:H2'	1:AA:694:A:H8	1.51	0.75
35:BA:1489:U:O3'	35:BA:1490:A:C8	2.37	0.75
38:BD:134:ARG:HG3	38:BD:135:PHE:HD1	1.47	0.75
42:BH:13:LYS:HG3	42:BH:14:GLY:H	1.51	0.75
50:BS:56:LEU:HD22	50:BS:58:LEU:HD11	1.69	0.75
57:BZ:25:PRO:O	57:BZ:85:HIS:HA	1.86	0.75
1:CA:657:G:C2'	1:CA:658:G:H5'	2.17	0.75
1:CA:1112:C:H1'	3:CC:179:ARG:NH1	2.01	0.75
1:CA:1502:A:H2	1:CA:1505:G:N2	1.85	0.75
7:CG:30:ILE:HD12	7:CG:120:ILE:HD13	1.69	0.75
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.49	0.75
39:DE:111:ARG:HD2	39:DE:160:TYR:CE1	2.20	0.75
41:DG:59:GLU:HG3	41:DG:60:LEU:N	2.00	0.75
47:DP:47:ASP:HB3	47:DP:48:PRO:CA	2.17	0.75
50:DS:49:VAL:HG13	50:DS:76:LYS:HE3	1.68	0.75
57:DZ:6:LYS:H	57:DZ:6:LYS:CE	1.99	0.75
1:AA:250:A:H4'	1:AA:251:G:O5'	1.87	0.75
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.87	0.75
21:AU:6:ARG:NE	21:AU:15:ARG:HH22	1.84	0.75
35:BA:365:C:H5'	35:BA:365:C:H6	1.52	0.75
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.86	0.75
35:BA:1833:U:H2'	35:BA:1834:U:H6	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:16:ARG:O	39:BE:17:ASP:HB3	1.87	0.75
2:CB:87:ARG:HE	2:CB:223:ILE:HD11	1.50	0.75
7:CG:92:SER:HB3	7:CG:95:ARG:HB2	1.68	0.75
10:CJ:28:ARG:HG3	10:CJ:34:VAL:N	2.01	0.75
35:DA:296:C:O2'	35:DA:297:C:H5'	1.86	0.75
51:DT:82:LEU:HD12	51:DT:82:LEU:N	2.01	0.75
53:DV:22:VAL:O	53:DV:23:GLU:HB2	1.85	0.75
1:AA:204:U:H4'	1:AA:216:G:C8	2.21	0.75
2:AB:114:ARG:O	2:AB:118:LEU:HG	1.87	0.75
5:AE:50:GLU:HB3	5:AE:53:LEU:HD12	1.67	0.75
28:B3:4:LEU:HD11	28:B3:39:ASP:HA	1.69	0.75
46:BO:47:ILE:HG12	46:BO:48:PRO:HD2	1.69	0.75
49:BR:13:HIS:HE1	49:BR:15:SER:HB2	1.52	0.75
1:CA:613:C:C2'	1:CA:614:A:H5''	2.16	0.75
7:CG:38:LEU:HD12	7:CG:41:ARG:HD2	1.69	0.75
8:CH:63:LEU:HD22	8:CH:63:LEU:H	1.52	0.75
35:DA:1899:G:H22	35:DA:1902:C:H41	1.35	0.75
35:DA:2820:A:O3'	49:DR:5:LYS:HE3	1.87	0.75
37:DC:195:ALA:HB1	37:DC:224:ILE:N	2.02	0.75
43:DI:8:PRO:HD3	43:DI:15:VAL:HB	1.69	0.75
24:AY:95:TYR:O	24:AY:96:LEU:HB2	1.87	0.75
35:BA:296:C:O2'	35:BA:297:C:H5'	1.86	0.75
36:BB:45:A:C1'	41:BG:95:ARG:HH21	2.00	0.75
49:BR:10:LEU:HB3	49:BR:17:ARG:NE	2.02	0.75
51:BT:82:LEU:HD12	51:BT:82:LEU:N	2.01	0.75
1:CA:943:U:H6	1:CA:943:U:O5'	1.70	0.75
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.02	0.75
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.69	0.75
35:DA:1911:U:O2'	35:DA:1912:A:O5'	2.05	0.75
35:DA:2068:U:H3	35:DA:2430:A:H2	0.80	0.75
35:DA:2302:G:H1'	41:DG:128:ARG:HE	1.52	0.75
37:DC:59:ARG:HG2	37:DC:62:VAL:HG22	1.69	0.75
49:DR:104:ARG:HD2	49:DR:109:ALA:HB3	1.68	0.75
57:DZ:35:ARG:HA	57:DZ:35:ARG:NE	2.02	0.75
2:AB:218:ALA:C	2:AB:220:ASP:H	1.93	0.74
35:BA:613:G:H5'	35:BA:613:G:C8	2.23	0.74
35:BA:963:U:H2'	35:BA:964:C:C6	2.22	0.74
35:BA:1797:C:H4'	38:BD:257:LEU:O	1.87	0.74
41:BG:91:ARG:HG3	41:BG:91:ARG:HH11	1.51	0.74
47:BP:115:LEU:H	47:BP:115:LEU:HD23	1.51	0.74
48:BQ:12:GLN:HE21	48:BQ:73:PRO:HD3	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:89:VAL:HB	51:BT:91:ARG:NE	2.02	0.74
1:CA:178:C:H2'	1:CA:179:A:C5'	2.16	0.74
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.52	0.74
2:CB:71:VAL:HG12	2:CB:93:VAL:HB	1.69	0.74
5:CE:67:VAL:HG13	5:CE:69:VAL:HG23	1.69	0.74
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	1.86	0.74
21:CU:6:ARG:NE	21:CU:15:ARG:HH22	1.84	0.74
35:DA:632:A:O2'	35:DA:633:A:H5'	1.87	0.74
35:DA:1161:C:H1'	53:DV:8:GLY:O	1.86	0.74
35:DA:1465:G:O4'	35:DA:1528:A:H8	1.69	0.74
42:DH:9:ILE:O	42:DH:9:ILE:CG1	2.30	0.74
1:AA:1000:U:H2'	1:AA:1001:A:H8	1.52	0.74
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.68	0.74
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.86	0.74
24:AY:28:ILE:HD12	24:AY:29:PRO:HD3	1.64	0.74
24:AY:30:LYS:HE3	24:AY:96:LEU:HB2	1.69	0.74
35:BA:597:U:H4'	47:BP:15:ARG:HH11	1.52	0.74
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.15	0.74
42:BH:98:LEU:CB	42:BH:125:VAL:HG21	2.12	0.74
43:BI:102:SER:HB3	43:BI:109:ILE:HB	1.69	0.74
50:BS:13:ARG:CG	50:BS:14:VAL:H	1.99	0.74
53:BV:52:VAL:CG1	53:BV:55:ALA:HB3	2.17	0.74
1:CA:16:A:O2'	1:CA:17:U:H5'	1.86	0.74
1:CA:671:G:H2'	1:CA:672:U:C6	2.22	0.74
10:CJ:50:ILE:HA	10:CJ:60:ARG:HD3	1.66	0.74
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.22	0.74
39:DE:101:ARG:NH1	39:DE:171:GLU:HB2	2.02	0.74
41:DG:82:LEU:HD22	41:DG:87:PRO:HB3	1.68	0.74
41:DG:111:LEU:HD22	41:DG:117:PHE:HE2	1.51	0.74
43:DI:102:SER:HB3	43:DI:109:ILE:HB	1.67	0.74
2:AB:71:VAL:HG12	2:AB:93:VAL:HB	1.69	0.74
2:AB:87:ARG:HE	2:AB:223:ILE:HD11	1.51	0.74
3:AC:187:ALA:HB3	3:AC:198:VAL:HB	1.69	0.74
7:AG:92:SER:HB3	7:AG:95:ARG:HB2	1.69	0.74
10:AJ:30:SER:HB3	10:AJ:84:GLN:OE1	1.87	0.74
19:AS:33:THR:HG22	19:AS:35:SER:H	1.51	0.74
24:AY:63:GLY:O	24:AY:72:LEU:N	2.19	0.74
24:AY:93:LYS:HA	24:AY:96:LEU:C	2.12	0.74
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.04	0.74
35:BA:2334:G:N3	50:BS:18:ILE:HD11	2.02	0.74
36:BB:42:C:H4'	41:BG:67:LYS:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.12	0.74
1:CA:1029:C:H4'	1:CA:1033:G:H22	1.51	0.74
4:CD:108:LEU:HD21	4:CD:183:GLY:HA3	1.67	0.74
15:CO:39:LEU:HD12	15:CO:56:LEU:HB2	1.68	0.74
42:DH:86:GLU:CD	42:DH:86:GLU:H	1.94	0.74
43:DI:82:ARG:O	43:DI:89:TYR:HB2	1.87	0.74
1:AA:501:C:H2'	1:AA:502:G:H8	1.51	0.74
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.02	0.74
6:AF:37:VAL:HG13	6:AF:65:VAL:HG12	1.69	0.74
22:AV:29:G:O2'	22:AV:30:G:H5'	1.87	0.74
23:AX:13:A:H3'	23:AX:14:A:H5''	1.69	0.74
29:B4:5:ILE:HD12	41:BG:67:LYS:NZ	2.02	0.74
35:BA:322:A:H3'	40:BF:169:ASN:HD21	1.51	0.74
35:BA:2630:G:H1'	35:BA:2894:G:H1'	1.67	0.74
37:BC:195:ALA:HB1	37:BC:224:ILE:N	2.02	0.74
43:BI:8:PRO:HD3	43:BI:15:VAL:HB	1.70	0.74
54:BW:1:MET:HG3	54:BW:64:MET:HE3	1.69	0.74
57:BZ:9:TYR:CE2	57:BZ:61:LEU:HD13	2.22	0.74
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.22	0.74
8:CH:30:ARG:HB3	8:CH:30:ARG:NH1	2.03	0.74
12:CL:116:LYS:HB2	12:CL:117:TYR:HD1	1.52	0.74
31:D6:12:GLU:HA	31:D6:23:THR:HA	1.68	0.74
35:DA:2684:U:P	51:DT:53:ARG:HE	2.10	0.74
42:DH:10:PRO:O	42:DH:10:PRO:CG	2.29	0.74
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.53	0.74
3:AC:181:ASN:C	3:AC:182:ILE:HD12	2.12	0.74
13:AM:79:LYS:O	13:AM:82:MET:HB3	1.88	0.74
48:BQ:103:MET:HE1	48:BQ:125:LEU:HD13	1.68	0.74
1:CA:1152:A:H5''	10:CJ:13:HIS:ND1	2.03	0.74
3:CC:187:ALA:HB3	3:CC:198:VAL:HB	1.69	0.74
15:CO:63:ARG:O	15:CO:67:LEU:HD12	1.88	0.74
35:DA:991:C:H5'	35:DA:991:C:H6	1.52	0.74
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.12	0.74
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.70	0.74
45:DN:30:ILE:HG23	45:DN:52:VAL:HG11	1.67	0.74
2:AB:19:HIS:CD2	2:AB:204:ASN:HA	2.23	0.74
10:AJ:28:ARG:HG3	10:AJ:34:VAL:N	2.02	0.74
22:AV:51:C:H2'	22:AV:52:G:O4'	1.87	0.74
31:B6:15:GLU:OE2	31:B6:43:CYS:HB3	1.88	0.74
35:BA:1332:G:H8	35:BA:1332:G:H5''	1.53	0.74
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:85:LYS:HZ3	51:BT:85:LYS:HA	1.52	0.74
13:CM:23:TYR:HB3	13:CM:67:GLU:HA	1.69	0.74
26:D1:45:ASN:HD21	35:DA:2090:G:N2	1.85	0.74
39:DE:46:ALA:HA	39:DE:82:ARG:O	1.87	0.74
49:DR:24:GLN:HE22	49:DR:36:THR:HG21	1.50	0.74
49:DR:57:ARG:O	49:DR:57:ARG:HG3	1.84	0.74
52:DU:74:LEU:HD12	52:DU:74:LEU:H	1.50	0.74
54:DW:64:MET:HE2	54:DW:109:GLU:HG2	1.69	0.74
2:AB:17:PHE:CD1	2:AB:44:LEU:HD21	2.17	0.74
3:AC:18:TRP:CD1	14:AN:54:PRO:HA	2.22	0.74
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.87	0.74
11:AK:110:ASP:O	18:AR:84:LYS:HB3	1.88	0.74
23:AX:14:A:N6	23:AX:15:A:C6	2.56	0.74
35:BA:197:A:H5'	35:BA:197:A:C8	2.22	0.74
35:BA:747:U:H1'	54:BW:92:ARG:HH11	1.51	0.74
38:BD:206:LEU:HD23	38:BD:211:ARG:NH1	2.02	0.74
39:BE:111:ARG:HG3	49:BR:2:ARG:NE	2.02	0.74
57:BZ:28:MET:HB3	57:BZ:88:PHE:HB2	1.69	0.74
2:CB:218:ALA:C	2:CB:220:ASP:H	1.93	0.74
28:D3:17:LYS:HG2	35:DA:969:U:OP1	1.88	0.74
35:DA:612:C:H2'	35:DA:613:G:C5'	2.13	0.74
35:DA:910:A:H62	48:DQ:12:GLN:HA	1.53	0.74
35:DA:2473:U:H3'	35:DA:2475:C:N4	2.02	0.74
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.23	0.74
47:DP:122:PRO:HG3	47:DP:141:ALA:O	1.87	0.74
53:DV:19:LYS:NZ	53:DV:20:LEU:H	1.86	0.74
1:AA:194:C:H2'	1:AA:195:A:H5''	1.69	0.74
1:AA:738:C:H5''	6:AF:69:GLU:HB2	1.69	0.74
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.03	0.74
1:AA:1107:C:H2'	1:AA:1108:G:H5''	1.68	0.74
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.03	0.74
24:AY:63:GLY:O	24:AY:72:LEU:HB2	1.87	0.74
29:B4:7:PRO:HG2	41:BG:65:GLY:O	1.87	0.74
33:B8:32:LEU:HB3	33:B8:36:LYS:NZ	2.01	0.74
35:BA:631:A:OP1	47:BP:64:LYS:HE2	1.87	0.74
42:BH:123:PHE:HA	42:BH:133:VAL:HG22	1.69	0.74
45:BN:51:PHE:CZ	45:BN:119:ARG:HD2	2.23	0.74
1:CA:940:C:HO2'	1:CA:941:G:H5'	1.48	0.74
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.18	0.74
2:CB:8:LYS:HA	2:CB:217:ARG:NH2	2.02	0.74
8:CH:40:ALA:HB2	8:CH:45:ILE:HG13	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:64:LYS:HG2	8:CH:79:VAL:HG21	1.70	0.74
15:CO:23:GLY:O	15:CO:27:VAL:HB	1.87	0.74
22:CV:55:U:H3	22:CV:57:A:C3'	1.91	0.74
32:D7:20:ALA:HA	32:D7:23:ARG:HE	1.50	0.74
32:D7:47:ARG:HB2	32:D7:48:LYS:NZ	2.01	0.74
37:DC:95:GLY:HA2	37:DC:99:ILE:HD12	1.69	0.74
57:DZ:35:ARG:HA	57:DZ:35:ARG:CZ	2.17	0.74
2:AB:178:ARG:HH11	2:AB:178:ARG:HG2	1.53	0.74
22:AV:59:A:C2'	22:AV:60:U:H5'	2.17	0.74
23:AX:21:C:O2'	23:AX:22:A:H2	1.69	0.74
29:B4:56:VAL:HG22	29:B4:57:GLU:HG3	1.70	0.74
45:BN:68:GLU:HB2	45:BN:88:GLU:CD	2.13	0.74
47:BP:79:ARG:O	47:BP:110:TYR:HB3	1.88	0.74
56:BY:8:LYS:HD2	56:BY:8:LYS:N	2.03	0.74
4:CD:28:SER:HB2	4:CD:29:PRO:HD2	1.68	0.74
8:CH:39:LEU:O	8:CH:44:PHE:HB2	1.88	0.74
26:D1:51:VAL:O	26:D1:57:GLU:HG2	1.88	0.74
30:D5:2:ALA:HA	35:DA:2015:A:H1'	1.70	0.74
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.70	0.74
42:DH:12:PRO:HD2	42:DH:49:VAL:HA	1.67	0.74
43:DI:88:ILE:HG12	43:DI:92:VAL:HG23	1.70	0.74
47:DP:56:SER:O	47:DP:57:THR:O	2.06	0.74
54:DW:9:TYR:H	54:DW:102:HIS:CD2	2.05	0.74
35:BA:925:C:H2'	35:BA:926:A:C5'	2.18	0.74
35:BA:2196:C:O2'	35:BA:2197:U:H5'	1.87	0.74
1:CA:413:G:H1'	1:CA:428:G:N2	2.03	0.74
1:CA:865:A:C2	1:CA:918:A:H4'	2.22	0.74
2:CB:173:ALA:HA	2:CB:176:GLU:HG3	1.69	0.74
2:CB:204:ASN:C	2:CB:204:ASN:HD22	1.95	0.74
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.51	0.74
26:D1:3:LYS:HG3	26:D1:4:VAL:H	1.52	0.74
35:DA:1019:U:H3	35:DA:1142(A):A:H62	1.33	0.74
35:DA:1053:C:O2'	44:DJ:33:UNK:HA	1.88	0.74
35:DA:2737:G:H2'	35:DA:2738:A:H8	1.53	0.74
38:DD:181:GLU:HA	38:DD:272:ALA:CB	2.17	0.74
1:AA:979:C:H3'	1:AA:980:C:C5'	2.17	0.73
3:AC:172:ARG:HH21	3:AC:174:PRO:HG2	1.50	0.73
5:AE:9:LYS:HB3	5:AE:112:LEU:HD11	1.69	0.73
35:BA:780:G:H21	35:BA:783:A:H62	1.36	0.73
35:BA:2302:G:H1'	41:BG:128:ARG:NE	2.02	0.73
38:BD:11:PRO:C	38:BD:13:ARG:H	1.96	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:123:LEU:HD13	43:BI:124:GLY:H	1.53	0.73
1:CA:1116:C:H3'	1:CA:1117:G:H5''	1.70	0.73
5:CE:13:ILE:HA	5:CE:29:GLY:O	1.88	0.73
8:CH:91:ARG:HH11	8:CH:91:ARG:HG2	1.52	0.73
10:CJ:30:SER:HB3	10:CJ:84:GLN:OE1	1.87	0.73
33:D8:4:MET:HB2	33:D8:61:LEU:HD13	1.68	0.73
35:DA:1797:C:H4'	38:DD:257:LEU:O	1.87	0.73
35:DA:2010:G:H5''	54:DW:42:ARG:HB2	1.70	0.73
39:DE:110:GLY:O	49:DR:5:LYS:NZ	2.21	0.73
48:DQ:103:MET:HE1	48:DQ:125:LEU:HD13	1.69	0.73
51:DT:129:ARG:CZ	51:DT:131:ALA:HB3	2.18	0.73
1:AA:624:C:H2'	1:AA:625:G:H8	1.53	0.73
3:AC:150:LYS:HE2	3:AC:152:ILE:HD11	1.70	0.73
9:AI:28:VAL:HG22	9:AI:63:ILE:HB	1.70	0.73
33:B8:25:MET:HB2	47:BP:62:LEU:CD2	2.18	0.73
41:BG:56:ALA:CB	41:BG:153:ARG:HH21	2.01	0.73
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.10	0.73
5:CE:51:VAL:O	5:CE:55:VAL:HG23	1.89	0.73
35:DA:868:U:N3	35:DA:869:G:N7	2.35	0.73
39:DE:48:GLN:NE2	39:DE:78:LEU:HD22	2.02	0.73
41:DG:18:GLU:OE1	41:DG:19:LEU:HD12	1.87	0.73
45:DN:133:GLN:HG2	45:DN:134:ARG:N	2.03	0.73
1:AA:16:A:O2'	1:AA:17:U:H5'	1.88	0.73
2:AB:22:LYS:HA	2:AB:22:LYS:HZ2	1.48	0.73
3:AC:161:GLU:HB2	23:AX:23:A:H61	1.53	0.73
4:AD:28:SER:HB2	4:AD:29:PRO:HD2	1.70	0.73
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.68	0.73
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.50	0.73
33:B8:4:MET:HB2	33:B8:61:LEU:HD13	1.70	0.73
38:BD:181:GLU:HA	38:BD:272:ALA:HB3	1.70	0.73
47:BP:126:VAL:HA	47:BP:145:PRO:HG2	1.70	0.73
50:BS:24:LEU:HD23	50:BS:85:VAL:HG12	1.70	0.73
51:BT:3:ARG:HD2	51:BT:6:LEU:HD22	1.70	0.73
1:CA:1344:C:O2'	1:CA:1345:U:H5'	1.88	0.73
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.87	0.73
35:DA:197:A:H5'	35:DA:197:A:H8	1.51	0.73
35:DA:1141:U:H2'	45:DN:63:THR:HG21	1.69	0.73
35:DA:1332:G:H5''	35:DA:1332:G:H8	1.53	0.73
35:DA:1899:G:H22	35:DA:1902:C:N4	1.83	0.73
42:DH:123:PHE:HA	42:DH:133:VAL:HG22	1.69	0.73
2:AB:55:PHE:HB3	2:AB:221:LEU:HD12	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:87:ARG:HD3	2:AB:233:SER:HB3	1.70	0.73
7:AG:30:ILE:HD12	7:AG:120:ILE:HD13	1.69	0.73
33:B8:59:LYS:CD	47:BP:50:ARG:HB3	2.15	0.73
36:BB:70:C:H2'	36:BB:71:C:H6	1.53	0.73
42:BH:86:GLU:CD	42:BH:86:GLU:H	1.94	0.73
43:BI:88:ILE:HG12	43:BI:92:VAL:HG23	1.68	0.73
45:BN:30:ILE:HG23	45:BN:52:VAL:HG11	1.70	0.73
1:CA:386:C:C2'	1:CA:387:U:H5'	2.18	0.73
1:CA:405:U:H3'	1:CA:406:G:H5'	1.70	0.73
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.18	0.73
7:CG:15:ASP:OD1	7:CG:18:TYR:HB2	1.89	0.73
9:CI:28:VAL:CG2	9:CI:63:ILE:HB	2.17	0.73
28:D3:4:LEU:HD11	28:D3:39:ASP:HA	1.71	0.73
35:DA:2219:G:O2'	35:DA:2220:G:H5'	1.87	0.73
38:DD:13:ARG:NH1	38:DD:16:MET:SD	2.62	0.73
41:DG:117:PHE:HZ	41:DG:179:PRO:HG2	1.53	0.73
42:DH:13:LYS:HG3	42:DH:14:GLY:H	1.52	0.73
46:DO:1:MET:HB3	46:DO:32:TYR:HD2	1.53	0.73
57:DZ:151:HIS:HB3	57:DZ:170:THR:HG23	1.69	0.73
1:AA:1270:C:O2'	1:AA:1271:G:H5'	1.88	0.73
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	1.87	0.73
22:AW:41:C:H2'	22:AW:42:G:H8	1.51	0.73
24:AY:38:GLY:HA2	24:AY:39:LYS:HD3	1.67	0.73
35:BA:597:U:H4'	47:BP:15:ARG:NH1	2.02	0.73
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.51	0.73
47:BP:111:ARG:HG3	47:BP:111:ARG:HH21	1.53	0.73
50:BS:49:VAL:HG13	50:BS:76:LYS:HE3	1.70	0.73
56:BY:7:VAL:HB	56:BY:8:LYS:NZ	2.02	0.73
6:CF:37:VAL:HG13	6:CF:65:VAL:HG12	1.69	0.73
35:DA:833:U:H5''	47:DP:48:PRO:HB3	1.68	0.73
35:DA:1278:A:O2'	35:DA:1279:G:H5'	1.88	0.73
39:DE:16:ARG:O	39:DE:17:ASP:HB3	1.86	0.73
39:DE:52:LEU:N	39:DE:74:PRO:HB3	2.03	0.73
1:AA:505:G:H2'	1:AA:506:G:H8	1.54	0.73
1:AA:973:G:H1'	10:AJ:55:LYS:HG2	1.71	0.73
9:AI:75:ASP:O	9:AI:79:LEU:HD23	1.88	0.73
27:B2:70:GLN:C	27:B2:72:ALA:H	1.94	0.73
35:BA:1141:U:H2'	45:BN:63:THR:HG21	1.70	0.73
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.03	0.73
37:BC:59:ARG:HG2	37:BC:62:VAL:HG22	1.70	0.73
37:BC:95:GLY:HA2	37:BC:99:ILE:HD12	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:84:ALA:HB3	55:BX:87:GLN:NE2	2.03	0.73
1:CA:1270:C:O2'	1:CA:1271:G:H5'	1.87	0.73
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.03	0.73
3:CC:141:VAL:O	3:CC:146:ALA:HB2	1.89	0.73
9:CI:86:VAL:HG21	9:CI:96:LEU:HD22	1.68	0.73
35:DA:903:C:H2'	35:DA:904:C:H5''	1.70	0.73
35:DA:924:C:H2'	35:DA:925:C:C6	2.24	0.73
41:DG:72:ARG:HD3	41:DG:86:MET:HA	1.71	0.73
41:DG:131:TYR:H	41:DG:159:VAL:HG22	1.53	0.73
1:AA:1347:G:OP2	9:AI:107:ARG:HB3	1.87	0.73
12:AL:41:THR:HG21	24:AY:7:HIS:HB2	1.69	0.73
15:AO:23:GLY:O	15:AO:27:VAL:HB	1.89	0.73
35:BA:18:C:O3'	52:BU:23:GLY:HA2	1.89	0.73
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.70	0.73
46:BO:87:ILE:HG22	46:BO:88:ASN:O	1.89	0.73
51:BT:129:ARG:CZ	51:BT:131:ALA:HB3	2.18	0.73
57:BZ:166:SER:CB	57:BZ:168:GLU:H	2.01	0.73
1:CA:255:G:H2'	1:CA:256:U:C6	2.23	0.73
1:CA:1492:A:O2'	24:CY:9:TYR:CB	2.36	0.73
9:CI:28:VAL:HG22	9:CI:63:ILE:HB	1.68	0.73
9:CI:75:ASP:O	9:CI:79:LEU:HD23	1.89	0.73
36:DB:7:G:C3'	36:DB:8:U:H5''	2.14	0.73
39:DE:111:ARG:HG3	49:DR:2:ARG:NE	2.03	0.73
50:DS:11:LYS:HE2	50:DS:11:LYS:N	2.04	0.73
50:DS:13:ARG:CG	50:DS:14:VAL:H	2.00	0.73
1:AA:93:G:O2'	1:AA:96:U:H5'	1.87	0.73
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.53	0.73
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.71	0.73
24:AY:33:LYS:CB	24:AY:36:GLY:H	2.00	0.73
24:AY:64:TYR:CB	24:AY:92:ILE:HD11	2.16	0.73
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.52	0.73
35:BA:89:G:OP2	35:BA:90:U:H2'	1.89	0.73
38:BD:181:GLU:HA	38:BD:272:ALA:CB	2.19	0.73
39:BE:101:ARG:NH1	39:BE:171:GLU:HB2	2.03	0.73
49:BR:81:ASP:O	49:BR:85:PRO:HG2	1.89	0.73
55:BX:27:THR:HB	55:BX:80:ILE:HB	1.69	0.73
1:CA:1152:A:H5'	10:CJ:70:ARG:NH2	2.02	0.73
12:CL:67:ILE:CG2	12:CL:97:ILE:HD12	2.17	0.73
17:CQ:65:ILE:HD12	17:CQ:65:ILE:N	2.04	0.73
22:CV:34:C:H3'	22:CV:35:A:H5''	1.71	0.73
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:5:VAL:HG12	41:DG:6:ALA:N	2.02	0.73
54:DW:1:MET:HE3	54:DW:2:GLU:H	1.52	0.73
18:AR:38:GLU:HA	18:AR:41:LYS:HB3	1.70	0.73
23:AX:13:A:H5'	23:AX:14:A:H5''	1.69	0.73
24:AY:28:ILE:CD1	24:AY:29:PRO:CD	2.42	0.73
47:BP:47:ASP:HB3	47:BP:48:PRO:CA	2.19	0.73
50:BS:28:VAL:HB	50:BS:89:ARG:HB2	1.71	0.73
2:CB:22:LYS:H	2:CB:40:HIS:HE1	1.36	0.73
8:CH:5:PRO:HB2	8:CH:32:LYS:HE2	1.71	0.73
13:CM:54:VAL:O	13:CM:58:GLU:HG2	1.88	0.73
18:CR:66:LEU:O	18:CR:70:ILE:HG13	1.88	0.73
39:DE:75:VAL:C	39:DE:77:ILE:H	1.97	0.73
45:DN:51:PHE:CZ	45:DN:119:ARG:HD2	2.23	0.73
51:DT:89:VAL:HB	51:DT:91:ARG:NE	2.03	0.73
56:DY:7:VAL:HB	56:DY:8:LYS:NZ	2.02	0.73
15:AO:85:LEU:O	15:AO:85:LEU:HD23	1.87	0.73
41:BG:56:ALA:HB2	41:BG:153:ARG:NH2	2.04	0.73
43:BI:88:ILE:HG12	43:BI:92:VAL:CG2	2.19	0.73
47:BP:18:ARG:HH11	47:BP:18:ARG:CB	2.02	0.73
50:BS:88:ASP:CG	50:BS:89:ARG:H	1.94	0.73
1:CA:659:U:O2'	1:CA:660:G:H5'	1.89	0.73
1:CA:1473:A:O2'	1:CA:1474:G:H5'	1.87	0.73
5:CE:126:ARG:HA	5:CE:131:ILE:HD11	1.71	0.73
6:CF:39:LYS:HB2	6:CF:64:GLN:HB3	1.71	0.73
33:D8:25:MET:HB2	47:DP:62:LEU:CD2	2.18	0.73
35:DA:2580:U:H4'	39:DE:130:GLY:CA	2.19	0.73
37:DC:79:LYS:HE2	37:DC:149:ILE:HA	1.71	0.73
38:DD:11:PRO:C	38:DD:13:ARG:H	1.97	0.73
39:DE:5:LEU:HB2	39:DE:51:PHE:HD2	1.54	0.73
41:DG:17:PRO:HA	41:DG:20:ILE:CD1	2.19	0.73
52:DU:92:ARG:HG2	52:DU:95:LEU:H	1.54	0.73
12:AL:41:THR:HG23	24:AY:7:HIS:HB3	0.76	0.72
35:BA:259:G:H21	35:BA:621:A:H8	1.35	0.72
35:BA:924:C:H2'	35:BA:925:C:C6	2.23	0.72
35:BA:2682:U:C6	39:BE:11:MET:HE2	2.24	0.72
37:BC:79:LYS:HE2	37:BC:149:ILE:HA	1.70	0.72
38:BD:68:LYS:HD3	38:BD:70:TRP:CZ2	2.24	0.72
47:BP:24:GLY:HA2	59:BP:202:MG:MG	1.12	0.72
57:BZ:108:PRO:HB2	57:BZ:144:LEU:O	1.88	0.72
1:CA:1124:G:H2'	1:CA:1125:U:H5'	1.71	0.72
2:CB:87:ARG:HD3	2:CB:233:SER:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:9:VAL:C	6:CF:10:LEU:HD12	2.13	0.72
11:CK:48:ILE:HD11	11:CK:64:ALA:HA	1.71	0.72
15:CO:85:LEU:O	15:CO:85:LEU:HD23	1.88	0.72
35:DA:557:U:H2'	35:DA:558:G:H8	1.52	0.72
35:DA:2524:G:H8	35:DA:2524:G:H5'	1.54	0.72
41:DG:108:ASN:O	41:DG:112:PRO:HG3	1.89	0.72
50:DS:28:VAL:HB	50:DS:89:ARG:HB2	1.69	0.72
51:DT:19:LEU:HD22	51:DT:85:LYS:HG3	1.71	0.72
51:DT:23:ARG:HH21	51:DT:120:ARG:HD3	1.53	0.72
54:DW:6:ILE:HA	54:DW:103:ILE:O	1.88	0.72
32:B7:10:ARG:NH1	32:B7:14:LYS:HE3	2.04	0.72
35:BA:1563:G:H2'	35:BA:1564:C:H6	1.54	0.72
39:BE:52:LEU:N	39:BE:74:PRO:HB3	2.04	0.72
43:BI:2:LYS:HZ3	43:BI:2:LYS:N	1.87	0.72
45:BN:45:ASN:HD22	45:BN:45:ASN:H	1.36	0.72
47:BP:9:ASN:N	47:BP:10:PRO:HD3	2.01	0.72
1:CA:397:A:H3'	1:CA:397:A:N3	2.04	0.72
1:CA:764:C:H2'	1:CA:765:G:H8	1.53	0.72
1:CA:1369:C:H2'	1:CA:1370:G:H8	1.52	0.72
3:CC:150:LYS:HE2	3:CC:152:ILE:HD11	1.69	0.72
4:CD:31:CYS:C	4:CD:33:MET:H	1.96	0.72
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.04	0.72
35:DA:259:G:H21	35:DA:621:A:H8	1.37	0.72
35:DA:651:G:C2	35:DA:652:C:N4	2.55	0.72
35:DA:911:A:H2'	48:DQ:9:TYR:OH	1.88	0.72
35:DA:925:C:O2'	35:DA:926:A:H5''	1.87	0.72
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.53	0.72
38:DD:58:HIS:HD2	38:DD:59:LYS:O	1.72	0.72
41:DG:128:ARG:C	41:DG:130:ASN:H	1.97	0.72
55:DX:54:VAL:HG22	55:DX:81:VAL:HG12	1.71	0.72
56:DY:76:CYS:HG	56:DY:77:PRO:HD2	1.52	0.72
1:AA:255:G:H2'	1:AA:256:U:H6	1.53	0.72
2:AB:53:ARG:HA	2:AB:56:ARG:HG3	1.71	0.72
3:AC:162:GLN:CD	23:AX:23:A:C8	2.63	0.72
7:AG:38:LEU:HD12	7:AG:41:ARG:HD2	1.71	0.72
17:AQ:22:LEU:HD11	17:AQ:39:SER:HB3	1.71	0.72
24:AY:38:GLY:CA	24:AY:39:LYS:HD3	2.18	0.72
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.71	0.72
45:BN:133:GLN:HG2	45:BN:134:ARG:N	2.04	0.72
47:BP:24:GLY:HA3	59:BP:202:MG:MG	1.13	0.72
56:BY:29:GLU:N	56:BY:29:GLU:OE1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:187:LEU:HD23	2:CB:201:ILE:O	1.89	0.72
17:CQ:45:HIS:HB2	17:CQ:65:ILE:HG12	1.70	0.72
35:DA:1491:G:O2'	38:DD:101:GLU:HG3	1.88	0.72
35:DA:2312:U:H4'	41:DG:71:THR:HG23	1.71	0.72
38:DD:43:ARG:NH1	38:DD:44:ASN:ND2	2.37	0.72
38:DD:95:LEU:O	38:DD:95:LEU:HD12	1.89	0.72
40:DF:28:ILE:HG21	40:DF:116:ASP:HB2	1.70	0.72
41:DG:43:LEU:HB3	41:DG:88:ILE:HG22	1.70	0.72
43:DI:77:LEU:HD23	43:DI:78:THR:N	2.04	0.72
46:DO:18:LYS:HB2	46:DO:45:GLU:HG2	1.71	0.72
1:AA:255:G:H2'	1:AA:256:U:C6	2.25	0.72
1:AA:664:G:P	18:AR:64:ARG:HH21	2.13	0.72
1:AA:975:A:H4'	1:AA:976:G:H5''	1.70	0.72
1:AA:1116:C:H3'	1:AA:1117:G:H5''	1.71	0.72
3:AC:127:ARG:N	3:AC:127:ARG:HD2	2.04	0.72
5:AE:13:ILE:HA	5:AE:29:GLY:O	1.88	0.72
9:AI:86:VAL:HG21	9:AI:96:LEU:HD22	1.70	0.72
35:BA:1161:C:H1'	53:BV:8:GLY:O	1.90	0.72
42:BH:83:TYR:HB3	42:BH:135:GLY:H	1.54	0.72
43:BI:127:VAL:HG22	43:BI:139:GLN:HA	1.71	0.72
51:BT:28:VAL:HG22	51:BT:47:GLY:H	1.54	0.72
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.05	0.72
17:CQ:22:LEU:HD11	17:CQ:39:SER:HB3	1.70	0.72
50:DS:56:LEU:HD22	50:DS:58:LEU:HD11	1.71	0.72
1:AA:178:C:H2'	1:AA:179:A:C5'	2.19	0.72
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.04	0.72
12:AL:116:LYS:HB2	12:AL:117:TYR:CD1	2.25	0.72
20:AT:70:SER:HA	20:AT:73:HIS:CD2	2.24	0.72
26:B1:50:ARG:HH21	35:BA:2199:A:H5'	1.54	0.72
35:BA:2468:G:H22	35:BA:2481:G:H2'	1.53	0.72
36:BB:80:U:H2'	36:BB:81:G:H21	1.53	0.72
39:BE:48:GLN:HE21	39:BE:78:LEU:HD22	1.54	0.72
43:BI:92:VAL:HG21	43:BI:142:VAL:HG13	1.70	0.72
52:BU:92:ARG:HG2	52:BU:95:LEU:H	1.52	0.72
53:BV:49:THR:CB	53:BV:50:PRO:HD2	2.15	0.72
1:CA:1125:U:H2'	1:CA:1281:U:O2	1.89	0.72
2:CB:185:ILE:HA	2:CB:199:TYR:O	1.89	0.72
45:DN:68:GLU:HB2	45:DN:88:GLU:CD	2.15	0.72
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.24	0.72
38:BD:95:LEU:HD12	38:BD:95:LEU:O	1.89	0.72
42:BH:155:SER:O	42:BH:157:TYR:N	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:101:LYS:HG2	56:BY:102:CYS:N	2.05	0.72
1:CA:707:C:O2'	1:CA:708:C:H5'	1.89	0.72
1:CA:1439:C:H2'	1:CA:1440:C:H5'	1.72	0.72
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.04	0.72
29:D4:56:VAL:HG22	29:D4:57:GLU:HG3	1.70	0.72
35:DA:747:U:H1'	54:DW:92:ARG:HH11	1.52	0.72
35:DA:925:C:H2'	35:DA:926:A:C5'	2.20	0.72
41:DG:39:ILE:HG13	41:DG:155:MET:HG3	1.70	0.72
41:DG:51:ARG:NE	41:DG:51:ARG:HA	2.04	0.72
46:DO:87:ILE:HG22	46:DO:88:ASN:O	1.89	0.72
8:AH:5:PRO:HB2	8:AH:32:LYS:HE2	1.70	0.72
9:AI:28:VAL:CG2	9:AI:63:ILE:HB	2.20	0.72
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.05	0.72
28:B3:26:LEU:HB2	28:B3:28:LEU:HD23	1.72	0.72
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.24	0.72
35:BA:2406:U:O4	47:BP:70:GLN:HB2	1.88	0.72
35:BA:2473:U:O2	35:BA:2473:U:H2'	1.89	0.72
35:BA:2821:A:OP2	39:BE:110:GLY:HA3	1.90	0.72
36:BB:7:G:C3'	36:BB:8:U:H5''	2.15	0.72
39:BE:111:ARG:HD2	39:BE:160:TYR:CE1	2.25	0.72
45:BN:121:LYS:N	45:BN:121:LYS:HD2	2.04	0.72
46:BO:4:PRO:O	46:BO:5:GLN:HB2	1.90	0.72
50:BS:35:ILE:HG21	50:BS:66:ALA:HB2	1.72	0.72
51:BT:35:LYS:HE2	51:BT:41:ARG:NE	2.03	0.72
57:BZ:15:PRO:O	57:BZ:19:ARG:HG2	1.88	0.72
1:CA:93:G:O2'	1:CA:96:U:H5'	1.89	0.72
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.24	0.72
33:D8:61:LEU:HG	33:D8:62:LEU:H	1.53	0.72
35:DA:142:A:H8	35:DA:1595:G:H21	1.34	0.72
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.71	0.72
41:DG:131:TYR:HB3	41:DG:159:VAL:HG22	1.70	0.72
46:DO:90:GLN:O	46:DO:91:LEU:HB2	1.89	0.72
50:DS:24:LEU:HD23	50:DS:85:VAL:HG12	1.69	0.72
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.25	0.72
2:AB:22:LYS:H	2:AB:40:HIS:HE1	1.35	0.72
5:AE:67:VAL:HG13	5:AE:69:VAL:HG23	1.71	0.72
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.20	0.72
19:AS:9:VAL:HG22	29:B4:53:GLU:HG2	1.72	0.72
28:B3:17:LYS:HG2	35:BA:969:U:OP1	1.90	0.72
35:BA:2155:G:H2'	35:BA:2156:G:H5'	1.71	0.72
42:BH:11:VAL:CG1	42:BH:49:VAL:HG12	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:716:A:N3	11:CK:118:GLY:HA2	2.05	0.72
14:CN:33:VAL:HG12	14:CN:40:CYS:HB3	1.69	0.72
20:CT:70:SER:HA	20:CT:73:HIS:CD2	2.25	0.72
35:DA:92:A:N1	35:DA:93:G:H1'	2.04	0.72
35:DA:2155:G:H2'	35:DA:2156:G:H5'	1.72	0.72
51:DT:35:LYS:HE2	51:DT:41:ARG:NE	2.04	0.72
57:DZ:23:LYS:HB3	57:DZ:38:TYR:CE1	2.24	0.72
1:AA:401:C:P	4:AD:73:ARG:HH21	2.12	0.72
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.20	0.72
2:AB:185:ILE:HA	2:AB:199:TYR:O	1.88	0.72
2:AB:187:LEU:HD23	2:AB:201:ILE:O	1.90	0.72
35:BA:409:C:O2'	35:BA:410:G:H5'	1.88	0.72
40:BF:1:MET:C	40:BF:3:GLU:H	1.96	0.72
40:BF:28:ILE:HG21	40:BF:116:ASP:HB2	1.70	0.72
41:BG:96:ARG:HA	41:BG:99:MET:HE3	1.72	0.72
41:BG:106:LEU:HD12	41:BG:107:LEU:N	2.05	0.72
42:BH:83:TYR:HD1	42:BH:84:SER:H	1.38	0.72
50:BS:66:ALA:O	50:BS:69:VAL:HG12	1.90	0.72
1:CA:1228:C:H2'	1:CA:1229:A:H8	1.55	0.72
3:CC:182:ILE:HG13	3:CC:203:PHE:HA	1.72	0.72
22:CV:36:U:H2'	22:CV:37:A:C5'	2.20	0.72
31:D6:42:TRP:CE3	31:D6:42:TRP:HA	2.25	0.72
33:D8:13:ARG:HD2	47:DP:61:ARG:HD3	1.72	0.72
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.25	0.72
39:DE:49:LEU:N	39:DE:49:LEU:HD23	2.05	0.72
41:DG:55:LYS:HA	41:DG:58:GLN:HG3	1.71	0.72
42:DH:8:PRO:HD3	42:DH:69:ARG:CG	2.20	0.72
42:DH:155:SER:O	42:DH:157:TYR:N	2.21	0.72
47:DP:115:LEU:HD23	47:DP:115:LEU:H	1.54	0.72
48:DQ:133:ARG:HB2	48:DQ:133:ARG:NH1	2.04	0.72
1:AA:624:C:O3'	16:AP:10:GLY:HA2	1.89	0.72
2:AB:70:PHE:HB2	2:AB:92:TYR:HB2	1.72	0.72
2:AB:75:LYS:HA	2:AB:78:GLN:HE21	1.54	0.72
11:AK:73:MET:HE1	11:AK:102:GLY:HA3	1.71	0.72
12:AL:67:ILE:CG2	12:AL:97:ILE:HD12	2.20	0.72
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.89	0.72
31:B6:42:TRP:HA	31:B6:42:TRP:CE3	2.25	0.72
35:BA:2109:U:H2'	35:BA:2110:G:C8	2.25	0.72
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.54	0.72
41:BG:121:ASN:HD22	41:BG:122:PRO:HD2	1.54	0.72
47:BP:56:SER:O	47:BP:57:THR:O	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:664:G:P	18:CR:64:ARG:HH21	2.13	0.72
6:CF:19:LEU:O	6:CF:19:LEU:HD23	1.90	0.72
10:CJ:28:ARG:HA	10:CJ:34:VAL:HG23	1.72	0.72
11:CK:73:MET:HE1	11:CK:102:GLY:HA3	1.72	0.72
35:DA:1563:G:H2'	35:DA:1564:C:H6	1.54	0.72
35:DA:1912:A:N1	35:DA:1919:A:C5	2.57	0.72
42:DH:98:LEU:CB	42:DH:125:VAL:HG21	2.12	0.72
45:DN:19:GLU:HB3	45:DN:56:ASN:O	1.89	0.72
1:AA:979:C:C3'	1:AA:980:C:H5''	2.20	0.71
1:AA:1128:C:H42	1:AA:1143:G:H1	1.37	0.71
38:BD:35:LYS:N	38:BD:36:PRO:CD	2.52	0.71
57:BZ:158:PRO:HD2	57:BZ:161:VAL:HG21	1.71	0.71
1:CA:922:G:H1'	5:CE:19:MET:HB2	1.69	0.71
1:CA:1073:U:OP2	5:CE:57:LYS:HE3	1.90	0.71
1:CA:1414:U:O2'	1:CA:1415:G:H5'	1.89	0.71
18:CR:38:GLU:HA	18:CR:41:LYS:HB3	1.71	0.71
35:DA:18:C:O3'	52:DU:23:GLY:HA2	1.90	0.71
46:DO:111:PHE:O	46:DO:115:VAL:HG23	1.90	0.71
47:DP:111:ARG:HH21	47:DP:111:ARG:HG3	1.55	0.71
50:DS:35:ILE:HG21	50:DS:66:ALA:HB2	1.71	0.71
51:DT:85:LYS:HZ3	51:DT:85:LYS:HA	1.55	0.71
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.54	0.71
1:AA:1400:C:O2	23:AX:19:U:O4	2.06	0.71
15:AO:82:ILE:HG23	15:AO:83:GLU:H	1.54	0.71
20:AT:89:ARG:HH21	20:AT:104:LEU:HD11	1.55	0.71
35:BA:212:G:O2'	35:BA:213:A:H5'	1.89	0.71
35:BA:543:C:O2'	35:BA:547:A:H8	1.70	0.71
49:BR:57:ARG:O	49:BR:57:ARG:HG3	1.90	0.71
1:CA:572:A:H4'	1:CA:917:G:H5'	1.72	0.71
1:CA:624:C:H2'	1:CA:625:G:H8	1.55	0.71
1:CA:979:C:C3'	1:CA:980:C:H5''	2.20	0.71
1:CA:986:A:H1'	19:CS:54:GLY:O	1.90	0.71
2:CB:75:LYS:HA	2:CB:78:GLN:HE21	1.55	0.71
25:D0:81:VAL:O	25:D0:83:PRO:HD3	1.90	0.71
35:DA:1281:G:H8	35:DA:1281:G:H5'	1.55	0.71
35:DA:2109:U:H2'	35:DA:2110:G:C8	2.24	0.71
35:DA:2474:C:O2	35:DA:2474:C:C2'	2.37	0.71
42:DH:11:VAL:CG1	42:DH:49:VAL:HG12	2.19	0.71
51:DT:3:ARG:HD2	51:DT:6:LEU:HD22	1.71	0.71
1:AA:413:G:H1'	1:AA:428:G:N2	2.05	0.71
1:AA:976:G:N2	1:AA:1362:C:H2'	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1422:G:H4'	46:BO:49:ARG:NH2	2.04	0.71
5:AE:137:GLU:HG3	5:AE:141:GLN:NE2	2.05	0.71
24:AY:74:SER:OG	24:AY:84:LYS:HG2	1.89	0.71
35:BA:1717:G:C2'	35:BA:1718:G:H5''	2.20	0.71
38:BD:30:GLU:CG	38:BD:63:ARG:HH21	2.03	0.71
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.53	0.71
47:BP:23:PRO:HD2	47:BP:33:ARG:NH2	2.03	0.71
1:CA:37:U:N3	1:CA:38:G:C5	2.58	0.71
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.72	0.71
33:D8:32:LEU:HB3	33:D8:36:LYS:HZ1	1.54	0.71
50:DS:88:ASP:CG	50:DS:89:ARG:H	1.95	0.71
56:DY:31:LEU:HB2	56:DY:32:PRO:HA	1.72	0.71
1:AA:1060:C:H4'	10:AJ:52:GLY:HA2	1.71	0.71
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.25	0.71
6:AF:9:VAL:C	6:AF:10:LEU:HD12	2.16	0.71
33:B8:16:ILE:O	33:B8:16:ILE:HD12	1.90	0.71
35:BA:518:G:H4'	54:BW:18:ARG:HH12	1.55	0.71
35:BA:779:U:OP1	38:BD:49:ILE:HG22	1.89	0.71
36:BB:42:C:H42	41:BG:91:ARG:HH21	1.37	0.71
47:BP:40:SER:O	47:BP:41:ARG:CZ	2.38	0.71
49:BR:24:GLN:HE22	49:BR:36:THR:HG21	1.53	0.71
51:BT:40:THR:O	51:BT:41:ARG:HB2	1.89	0.71
1:CA:34:C:C2'	1:CA:35:G:C5'	2.67	0.71
1:CA:145:G:C2	1:CA:146:G:H1'	2.25	0.71
22:CV:2:G:H2'	22:CV:3:C:C6	2.26	0.71
28:D3:26:LEU:HB2	28:D3:28:LEU:HD23	1.71	0.71
35:DA:880:G:H1	35:DA:897:C:H42	1.39	0.71
35:DA:2472:G:H5''	35:DA:2473:U:C4'	2.21	0.71
38:DD:30:GLU:CG	38:DD:63:ARG:HH21	2.04	0.71
40:DF:2:LYS:C	40:DF:24:LEU:HG	2.15	0.71
42:DH:28:GLY:HA3	42:DH:79:VAL:HB	1.73	0.71
1:AA:337:C:H2'	1:AA:338:A:H8	1.55	0.71
1:AA:716:A:N3	11:AK:118:GLY:HA2	2.04	0.71
9:AI:98:PRO:C	9:AI:99:LEU:HD22	2.15	0.71
17:AQ:12:SER:HB3	17:AQ:20:THR:HB	1.72	0.71
35:BA:2580:U:H5'	39:BE:131:ALA:H	1.55	0.71
38:BD:142:VAL:HG23	38:BD:193:VAL:HA	1.71	0.71
42:BH:8:PRO:C	42:BH:9:ILE:CG2	2.60	0.71
1:CA:33:A:C2'	1:CA:34:C:H5''	2.12	0.71
1:CA:399:G:O2'	1:CA:400:C:H5'	1.88	0.71
1:CA:521:G:O2'	1:CA:522:C:H5'	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:644:G:H2'	1:CA:645:C:H5''	0.73	0.71
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD13	1.73	0.71
35:DA:1710:C:O2'	35:DA:1711:C:H5'	1.91	0.71
35:DA:2473:U:C2'	35:DA:2473:U:O2	2.38	0.71
35:DA:2473:U:H3'	35:DA:2474:C:H5'	1.71	0.71
39:DE:48:GLN:HE21	39:DE:78:LEU:HD22	1.56	0.71
56:DY:88:LYS:NZ	56:DY:93:GLY:HA3	2.05	0.71
1:AA:926:G:H21	1:AA:1505:G:H2'	1.54	0.71
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	1.72	0.71
24:AY:76:ASP:OD2	24:AY:78:LYS:HB2	1.90	0.71
34:B9:7:VAL:HG12	34:B9:34:GLN:HE21	1.55	0.71
42:BH:43:VAL:HG12	42:BH:52:VAL:HA	1.71	0.71
43:BI:82:ARG:H	43:BI:82:ARG:CD	2.03	0.71
52:BU:34:LYS:HA	52:BU:34:LYS:HE3	1.71	0.71
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.70	0.71
35:DA:484:C:H2'	35:DA:485:C:H6	1.56	0.71
45:DN:45:ASN:H	45:DN:45:ASN:HD22	1.38	0.71
47:DP:7:ARG:NH1	47:DP:7:ARG:CA	2.54	0.71
2:AB:8:LYS:HA	2:AB:217:ARG:NH2	2.03	0.71
3:AC:182:ILE:HG13	3:AC:203:PHE:HA	1.71	0.71
23:AX:22:A:O2'	23:AX:23:A:O5'	2.09	0.71
35:BA:2219:G:O2'	35:BA:2220:G:H5'	1.91	0.71
42:BH:148:ILE:O	42:BH:162:ILE:HD11	1.91	0.71
45:BN:19:GLU:HB3	45:BN:56:ASN:O	1.90	0.71
56:BY:27:VAL:HA	56:BY:28:LYS:HZ1	1.55	0.71
1:CA:194:C:H2'	1:CA:195:A:H5''	1.73	0.71
1:CA:737:A:H2'	1:CA:738:C:C6	2.26	0.71
1:CA:1472:U:O2'	1:CA:1473:A:H5'	1.90	0.71
4:CD:22:LYS:HB2	4:CD:26:CYS:SG	2.30	0.71
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.05	0.71
11:CK:110:ASP:O	18:CR:84:LYS:HB3	1.90	0.71
32:D7:43:THR:HG23	32:D7:44:PRO:HD2	1.72	0.71
35:DA:365:C:H5'	35:DA:365:C:H6	1.54	0.71
42:DH:43:VAL:HG12	42:DH:52:VAL:HA	1.71	0.71
47:DP:18:ARG:HH11	47:DP:18:ARG:CB	2.04	0.71
47:DP:40:SER:O	47:DP:41:ARG:CZ	2.39	0.71
49:DR:13:HIS:O	49:DR:14:SER:C	2.33	0.71
50:DS:52:SER:HB2	50:DS:55:ALA:HB3	1.73	0.71
53:DV:49:THR:CB	53:DV:50:PRO:HD2	2.16	0.71
3:AC:182:ILE:HG23	3:AC:202:ILE:O	1.91	0.71
7:AG:15:ASP:OD1	7:AG:18:TYR:HB2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.06	0.71
10:AJ:4:ILE:H	10:AJ:4:ILE:HD12	1.55	0.71
26:B1:5:CYS:SG	26:B1:62:VAL:HG23	2.30	0.71
27:B2:38:GLN:HB3	27:B2:44:LEU:HB2	1.72	0.71
38:BD:58:HIS:HD2	38:BD:59:LYS:O	1.74	0.71
40:BF:63:LYS:NZ	40:BF:67:GLN:HB2	2.05	0.71
1:CA:688:G:H2'	1:CA:689:C:H6	1.55	0.71
1:CA:836:G:C6	1:CA:837:G:C5	2.79	0.71
1:CA:947:G:H4'	1:CA:1332:A:H2	1.55	0.71
1:CA:1225:A:H3'	1:CA:1226:C:C6	2.25	0.71
2:CB:22:LYS:HA	2:CB:22:LYS:HZ2	1.54	0.71
17:CQ:12:SER:HB3	17:CQ:20:THR:HB	1.73	0.71
31:D6:15:GLU:OE2	31:D6:43:CYS:HB3	1.90	0.71
35:DA:2761:G:C3'	35:DA:2762:G:H5''	2.21	0.71
35:DA:2777:G:H5''	35:DA:2778:A:H5''	1.73	0.71
40:DF:83:PHE:O	40:DF:84:VAL:HB	1.90	0.71
52:DU:108:GLU:HG3	53:DV:44:LYS:CD	2.14	0.71
8:AH:39:LEU:O	8:AH:44:PHE:HB2	1.90	0.71
15:AO:39:LEU:HD12	15:AO:56:LEU:HB2	1.73	0.71
24:AY:80:GLY:C	24:AY:81:ASN:HD22	1.99	0.71
27:B2:46:GLN:OE1	27:B2:46:GLN:HA	1.90	0.71
35:BA:1529:G:H5''	35:BA:1529:G:N3	2.06	0.71
39:BE:75:VAL:C	39:BE:77:ILE:H	1.98	0.71
42:BH:8:PRO:HD3	42:BH:69:ARG:CG	2.20	0.71
49:BR:98:LEU:HB2	49:BR:113:LEU:CD2	2.21	0.71
3:CC:57:ILE:HG12	3:CC:66:VAL:HG13	1.73	0.71
9:CI:98:PRO:C	9:CI:99:LEU:HD22	2.15	0.71
22:CW:47:U:H3'	22:CW:48:C:H5''	1.73	0.71
35:DA:925:C:H2'	35:DA:926:A:H5''	1.72	0.71
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.21	0.71
40:DF:33:LEU:O	40:DF:37:VAL:HG23	1.91	0.71
41:DG:72:ARG:CZ	41:DG:86:MET:HB2	2.21	0.71
46:DO:24:VAL:HG23	46:DO:33:ALA:HB2	1.73	0.71
47:DP:38:GLN:CG	47:DP:39:LYS:H	1.99	0.71
48:DQ:12:GLN:HG2	48:DQ:73:PRO:HD2	1.71	0.71
1:AA:1006:C:H1'	1:AA:1023:G:H22	1.54	0.71
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.21	0.71
12:AL:114:ARG:HB3	12:AL:119:THR:O	1.90	0.71
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	1.73	0.71
35:BA:1210:A:H5''	35:BA:1212:G:O4'	1.90	0.71
35:BA:2580:U:H4'	39:BE:130:GLY:CA	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2737:G:H2'	35:BA:2738:A:H8	1.56	0.71
40:BF:63:LYS:HZ1	40:BF:67:GLN:HB2	1.54	0.71
41:BG:122:PRO:HG2	41:BG:123:ASN:OD1	1.91	0.71
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.70	0.71
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.56	0.71
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.26	0.71
5:CE:11:ILE:HD12	5:CE:31:LEU:HD12	1.71	0.71
17:CQ:21:VAL:HG21	17:CQ:59:ILE:HD11	1.73	0.71
22:CW:16:C:H5'	22:CW:59:A:H2	1.56	0.71
30:D5:50:GLY:HA3	30:D5:56:LYS:HB3	1.72	0.71
35:DA:1192:G:O2'	35:DA:1193:G:H5'	1.90	0.71
35:DA:1910:G:C2'	35:DA:1911:U:C5'	2.61	0.71
42:DH:83:TYR:HB3	42:DH:135:GLY:H	1.54	0.71
43:DI:78:THR:HA	43:DI:141:LYS:O	1.90	0.71
52:DU:34:LYS:HA	52:DU:34:LYS:HE3	1.72	0.71
53:DV:52:VAL:CG1	53:DV:55:ALA:HB3	2.21	0.71
1:AA:17:U:H2'	1:AA:18:C:C6	2.26	0.70
1:AA:266:G:H5''	1:AA:268:C:H41	1.55	0.70
1:AA:1463:C:P	51:BT:111:ARG:HH21	2.14	0.70
2:AB:55:PHE:HA	2:AB:58:ILE:HB	1.73	0.70
2:AB:204:ASN:HD22	2:AB:204:ASN:C	1.97	0.70
21:AU:2:GLY:O	21:AU:4:GLY:N	2.24	0.70
29:B4:24:THR:HG22	29:B4:25:TYR:N	2.06	0.70
41:BG:103:LEU:O	41:BG:106:LEU:HG	1.90	0.70
42:BH:7:LEU:C	42:BH:69:ARG:HD2	2.16	0.70
43:BI:78:THR:HA	43:BI:141:LYS:O	1.91	0.70
1:CA:658:G:O2'	1:CA:659:U:H5'	1.91	0.70
35:DA:613:G:H5'	35:DA:613:G:C8	2.26	0.70
35:DA:2392:A:H2	35:DA:2424:C:N4	1.88	0.70
45:DN:36:GLY:HA3	45:DN:48:MET:CE	2.20	0.70
1:AA:644:G:H4'	8:AH:92:ARG:HH21	1.55	0.70
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.25	0.70
3:AC:141:VAL:O	3:AC:146:ALA:HB2	1.91	0.70
4:AD:22:LYS:HB2	4:AD:26:CYS:SG	2.31	0.70
30:B5:50:GLY:HA3	30:B5:56:LYS:HB3	1.72	0.70
35:BA:539:G:H2'	35:BA:540:C:C6	2.26	0.70
53:BV:83:ARG:HH11	53:BV:83:ARG:HG2	1.56	0.70
57:BZ:97:GLU:HB3	57:BZ:125:LEU:HD21	1.72	0.70
1:CA:4:U:C4'	1:CA:5:U:H5'	2.16	0.70
1:CA:243:A:H4'	1:CA:244:U:H5''	1.72	0.70
1:CA:801:U:H2'	1:CA:802:A:C8	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1207:G:H2'	1:CA:1208:C:H6	1.55	0.70
2:CB:19:HIS:ND1	2:CB:20:GLU:HG2	2.07	0.70
4:CD:64:LEU:O	4:CD:64:LEU:HD23	1.91	0.70
4:CD:153:ARG:HH11	4:CD:181:MET:HE3	1.55	0.70
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.91	0.70
58:CX:16:A:C6	58:CX:17:U:C5	2.79	0.70
31:D6:36:LEU:H	31:D6:36:LEU:HD23	1.56	0.70
35:DA:867:C:H2'	35:DA:867:C:O2	1.89	0.70
39:DE:4:ILE:HG13	39:DE:31:CYS:SG	2.32	0.70
42:DH:11:VAL:HG13	42:DH:49:VAL:HG12	1.73	0.70
50:DS:68:GLN:HA	50:DS:71:ARG:HH12	1.56	0.70
1:AA:947:G:H4'	1:AA:1332:A:H2	1.56	0.70
3:AC:57:ILE:HG12	3:AC:66:VAL:HG13	1.72	0.70
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.21	0.70
17:AQ:45:HIS:HB2	17:AQ:65:ILE:HG12	1.72	0.70
21:AU:2:GLY:C	21:AU:4:GLY:H	1.99	0.70
24:AY:83:LEU:O	24:AY:84:LYS:HD3	1.91	0.70
25:B0:72:ARG:HH11	25:B0:75:LEU:HD13	1.55	0.70
33:B8:61:LEU:HG	33:B8:62:LEU:H	1.56	0.70
35:BA:997:G:O2'	35:BA:998:C:H5'	1.91	0.70
35:BA:2801(A):A:C4'	35:BA:2802:G:H2'	2.21	0.70
53:BV:100:ARG:O	53:BV:100:ARG:HD2	1.90	0.70
1:CA:76:C:H42	1:CA:93:G:H1	1.39	0.70
1:CA:588:G:C5	1:CA:589:C:N4	2.59	0.70
2:CB:55:PHE:HA	2:CB:58:ILE:HB	1.72	0.70
4:CD:156:GLU:HG2	4:CD:160:GLN:HE21	1.56	0.70
5:CE:137:GLU:HG3	5:CE:141:GLN:NE2	2.05	0.70
15:CO:82:ILE:HG23	15:CO:83:GLU:H	1.56	0.70
22:CV:4:G:O2'	22:CV:5:G:H8	1.74	0.70
22:CV:53:G:H2'	22:CV:54:U:C6	2.26	0.70
58:CX:16:A:H2'	58:CX:17:U:H5'	1.74	0.70
35:DA:507:A:C5'	35:DA:508:G:H5''	2.03	0.70
35:DA:1719:G:O2'	35:DA:1720:U:H5'	1.91	0.70
38:DD:35:LYS:N	38:DD:36:PRO:CD	2.52	0.70
38:DD:65:ILE:HD11	38:DD:67:PHE:CE1	2.26	0.70
38:DD:68:LYS:HD3	38:DD:70:TRP:CZ2	2.26	0.70
40:DF:160:ASN:HD22	40:DF:160:ASN:C	1.98	0.70
45:DN:128:HIS:HD2	45:DN:130:HIS:HB2	1.56	0.70
51:DT:28:VAL:HG22	51:DT:47:GLY:H	1.55	0.70
56:DY:101:LYS:HG2	56:DY:102:CYS:N	2.05	0.70
57:DZ:108:PRO:HB3	57:DZ:144:LEU:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:521:G:O2'	1:AA:522:C:H5'	1.91	0.70
22:AW:11:A:H2'	22:AW:12:G:H8	1.57	0.70
42:BH:85:LYS:HB2	42:BH:141:VAL:HG13	1.73	0.70
47:BP:7:ARG:NH1	47:BP:7:ARG:CA	2.53	0.70
50:BS:52:SER:HB2	50:BS:55:ALA:HB3	1.74	0.70
1:CA:17:U:H2'	1:CA:18:C:C6	2.25	0.70
1:CA:693:G:H2'	1:CA:694:A:H8	1.55	0.70
2:CB:178:ARG:HH11	2:CB:178:ARG:HG2	1.54	0.70
35:DA:2303:G:H1'	41:DG:132:ASN:HD22	1.56	0.70
42:DH:85:LYS:HB2	42:DH:141:VAL:HG13	1.73	0.70
47:DP:122:PRO:HG3	47:DP:141:ALA:HB1	1.72	0.70
53:DV:82:ARG:HG2	53:DV:82:ARG:HH11	1.54	0.70
1:AA:421:U:O2	1:AA:421:U:H2'	1.92	0.70
1:AA:707:C:O2'	1:AA:708:C:H5'	1.91	0.70
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.55	0.70
6:AF:39:LYS:HB2	6:AF:64:GLN:HB3	1.71	0.70
7:AG:32:ARG:HH11	7:AG:32:ARG:HG2	1.55	0.70
15:AO:63:ARG:O	15:AO:67:LEU:HD12	1.91	0.70
23:AX:21:C:O2'	23:AX:22:A:H5''	1.92	0.70
33:B8:49:VAL:HG23	33:B8:53:PRO:CD	2.18	0.70
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.72	0.70
35:BA:1280:G:C2'	35:BA:1281:G:H5''	2.22	0.70
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.45	0.70
37:BC:72:VAL:HG12	37:BC:74:VAL:HG23	1.74	0.70
40:BF:83:PHE:O	40:BF:84:VAL:HB	1.90	0.70
54:BW:1:MET:HE3	54:BW:2:GLU:H	1.55	0.70
1:CA:266:G:H5''	1:CA:268:C:H41	1.56	0.70
1:CA:973:G:H1'	10:CJ:55:LYS:HG2	1.73	0.70
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.74	0.70
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	1.91	0.70
12:CL:107:VAL:HG21	12:CL:117:TYR:CD2	2.24	0.70
22:CV:37:A:C2	58:CX:16:A:C8	2.79	0.70
22:CV:54:U:H2'	22:CV:55:U:O4'	1.92	0.70
58:CX:19:G:N3	58:CX:19:G:H3'	2.06	0.70
26:D1:50:ARG:HH11	26:D1:50:ARG:HB3	1.57	0.70
41:DG:36:LYS:HB3	41:DG:160:VAL:HB	1.73	0.70
53:DV:52:VAL:HG11	53:DV:55:ALA:HB3	1.72	0.70
1:AA:591:U:H2'	1:AA:592:G:H8	1.55	0.70
1:AA:1124:G:H4'	10:AJ:35:SER:OG	1.92	0.70
1:AA:1221:G:H4'	19:AS:77:THR:CG2	2.21	0.70
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:65:ILE:HD11	38:BD:67:PHE:CZ	2.26	0.70
39:BE:46:ALA:HA	39:BE:82:ARG:O	1.91	0.70
39:BE:200:GLU:N	39:BE:200:GLU:OE2	2.23	0.70
47:BP:59:LEU:HA	47:BP:61:ARG:NH2	2.06	0.70
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.27	0.70
1:CA:1060:C:H4'	10:CJ:52:GLY:HA2	1.72	0.70
9:CI:10:ARG:HH21	9:CI:108:VAL:HG12	1.57	0.70
10:CJ:4:ILE:H	10:CJ:4:ILE:HD12	1.55	0.70
12:CL:41:THR:CG2	24:CY:7:HIS:HB3	2.21	0.70
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.24	0.70
29:D4:35:VAL:HG21	41:DG:113:ARG:CZ	2.21	0.70
44:DJ:25:UNK:H	44:DJ:86:UNK:CB	2.04	0.70
53:DV:18:LEU:HD12	53:DV:18:LEU:N	2.06	0.70
1:AA:33:A:C2'	1:AA:34:C:H5''	2.21	0.70
8:AH:51:VAL:CG1	8:AH:60:ARG:HD3	2.14	0.70
35:BA:880:G:H1	35:BA:897:C:H42	1.38	0.70
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.55	0.70
53:BV:99:ILE:H	53:BV:99:ILE:CD1	2.05	0.70
56:BY:31:LEU:HB2	56:BY:32:PRO:HA	1.74	0.70
56:BY:52:SER:HB3	56:BY:55:TYR:HE1	1.57	0.70
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.06	0.70
12:CL:116:LYS:HB2	12:CL:117:TYR:CD1	2.27	0.70
13:CM:92:HIS:HB2	13:CM:98:VAL:HG23	1.74	0.70
15:CO:40:SER:HB2	35:DA:715:G:N2	2.06	0.70
35:DA:1038:C:C3'	35:DA:1039:G:H5''	2.20	0.70
35:DA:2302:G:H1'	41:DG:128:ARG:NE	2.07	0.70
35:DA:2580:U:H5'	39:DE:131:ALA:H	1.56	0.70
39:DE:6:GLY:HA2	39:DE:51:PHE:CE2	2.26	0.70
40:DF:84:VAL:HG12	40:DF:85:GLY:H	1.52	0.70
40:DF:84:VAL:CG1	40:DF:85:GLY:N	2.55	0.70
42:DH:7:LEU:C	42:DH:69:ARG:HD2	2.16	0.70
43:DI:113:ARG:HD3	43:DI:131:LYS:HB2	1.74	0.70
49:DR:10:LEU:CD1	49:DR:17:ARG:HB2	1.85	0.70
55:DX:44:GLU:HG2	55:DX:51:VAL:HG23	1.73	0.70
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.27	0.70
2:AB:173:ALA:HA	2:AB:176:GLU:HG3	1.73	0.70
7:AG:47:CYS:O	7:AG:50:ILE:HB	1.92	0.70
9:AI:40:LEU:HD23	9:AI:42:ARG:H	1.57	0.70
24:AY:95:TYR:O	24:AY:96:LEU:CB	2.40	0.70
35:BA:1053:C:H1'	44:BJ:33:UNK:HA	1.74	0.70
35:BA:2010:G:H5''	54:BW:42:ARG:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:172:TYR:HD1	38:BD:186:HIS:HA	1.56	0.70
47:BP:7:ARG:CA	47:BP:7:ARG:HH11	2.04	0.70
1:CA:204:U:H4'	1:CA:216:G:C8	2.27	0.70
1:CA:1066:C:H3'	1:CA:1067:A:C8	2.27	0.70
1:CA:1409:C:H42	1:CA:1491:G:H1	1.39	0.70
18:CR:47:THR:HG22	18:CR:85:LEU:H	1.56	0.70
32:D7:10:ARG:NH1	32:D7:14:LYS:HE3	2.05	0.70
35:DA:953:A:O2'	35:DA:954:G:H5'	1.91	0.70
35:DA:2302:G:H1'	41:DG:128:ARG:HH21	1.57	0.70
53:DV:83:ARG:HH11	53:DV:83:ARG:HG2	1.56	0.70
1:AA:38:G:C2	1:AA:397:A:C2	2.79	0.70
1:AA:1344:C:O2'	1:AA:1345:U:H5'	1.91	0.70
2:AB:84:GLU:OE1	2:AB:216:SER:HA	1.92	0.70
3:AC:19:GLU:HA	3:AC:54:ARG:HH12	1.57	0.70
35:BA:1530:C:O2	35:BA:1530:C:H2'	1.92	0.70
35:BA:1766:U:H2'	35:BA:1767:C:H6	1.54	0.70
42:BH:28:GLY:HA3	42:BH:79:VAL:HB	1.73	0.70
1:CA:434:U:H2'	1:CA:435:C:C6	2.26	0.70
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.21	0.70
17:CQ:78:GLU:OE1	17:CQ:81:ARG:HD3	1.92	0.70
22:CW:41:C:H2'	22:CW:42:G:H8	1.56	0.70
26:D1:52:ARG:NH1	26:D1:57:GLU:HB2	2.07	0.70
35:DA:146:G:H5'	35:DA:146:G:C8	2.24	0.70
35:DA:1717:G:C2'	35:DA:1718:G:H5''	2.20	0.70
35:DA:2637:U:H5''	39:DE:82:ARG:HH21	1.55	0.70
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.57	0.70
35:DA:2801(A):A:C4'	35:DA:2802:G:H2'	2.22	0.70
38:DD:172:TYR:HD1	38:DD:186:HIS:HA	1.55	0.70
40:DF:1:MET:C	40:DF:3:GLU:H	1.98	0.70
41:DG:60:LEU:O	41:DG:60:LEU:HD23	1.92	0.70
43:DI:2:LYS:N	43:DI:2:LYS:HZ3	1.89	0.70
53:DV:35:LEU:C	53:DV:37:VAL:H	2.00	0.70
1:AA:1254:C:OP1	10:AJ:45:ARG:HG3	1.92	0.70
5:AE:126:ARG:HA	5:AE:131:ILE:HD11	1.72	0.70
8:AH:44:PHE:HA	8:AH:79:VAL:HG11	1.74	0.70
35:BA:951:C:O2'	35:BA:952:G:H5'	1.92	0.70
35:BA:1710:C:O2'	35:BA:1711:C:H5'	1.92	0.70
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.92	0.70
37:BC:82:LYS:HZ2	37:BC:82:LYS:HB3	1.57	0.70
38:BD:17:THR:O	38:BD:204:ILE:HG23	1.92	0.70
42:BH:11:VAL:HG13	42:BH:49:VAL:HG12	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:68:THR:C	42:BH:70:THR:H	1.99	0.70
1:CA:836:G:C5	1:CA:837:G:N7	2.60	0.70
1:CA:940:C:O2'	1:CA:941:G:C5'	2.26	0.70
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.27	0.70
3:CC:19:GLU:HA	3:CC:54:ARG:HH12	1.56	0.70
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.22	0.70
16:CP:71:ARG:HB2	16:CP:71:ARG:NH1	2.06	0.70
33:D8:16:ILE:HD12	33:D8:16:ILE:O	1.91	0.70
35:DA:409:C:O2'	35:DA:410:G:H5'	1.91	0.70
47:DP:59:LEU:HA	47:DP:61:ARG:NH2	2.05	0.70
53:DV:19:LYS:HG3	53:DV:20:LEU:N	2.07	0.70
56:DY:27:VAL:HA	56:DY:28:LYS:HZ1	1.55	0.70
1:AA:737:A:H2'	1:AA:738:C:C6	2.27	0.69
1:AA:986:A:H1'	19:AS:54:GLY:O	1.92	0.69
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.27	0.69
3:AC:187:ALA:C	3:AC:188:LEU:HD22	2.17	0.69
5:AE:78:HIS:CE1	5:AE:142:LEU:HD23	2.27	0.69
8:AH:40:ALA:HB2	8:AH:45:ILE:HG13	1.73	0.69
9:AI:10:ARG:HH21	9:AI:108:VAL:HG12	1.56	0.69
18:AR:36:ASN:HB3	18:AR:39:VAL:CG2	2.22	0.69
35:BA:676:A:H8	35:BA:2069:G:N2	1.80	0.69
35:BA:1114:G:H3'	35:BA:1115:G:H5''	1.71	0.69
47:BP:7:ARG:HA	47:BP:7:ARG:HH11	1.56	0.69
51:BT:24:PRO:HA	51:BT:49:VAL:HG13	1.73	0.69
56:BY:28:LYS:HA	56:BY:39:VAL:H	1.56	0.69
57:BZ:171:ILE:HG13	57:BZ:172:ALA:N	2.06	0.69
1:CA:9:G:H5'	5:CE:122:GLU:OE2	1.92	0.69
5:CE:35:GLY:HA3	5:CE:112:LEU:O	1.92	0.69
21:CU:24:ARG:HH11	21:CU:24:ARG:HG2	1.57	0.69
27:D2:39:ALA:HA	27:D2:45:SER:CB	2.17	0.69
31:D6:52:VAL:HG12	31:D6:53:LYS:N	2.07	0.69
41:DG:82:LEU:CD2	41:DG:87:PRO:HB3	2.22	0.69
46:DO:93:PRO:HD3	46:DO:114:ILE:HD11	1.72	0.69
52:DU:66:ASN:ND2	52:DU:70:ARG:HE	1.90	0.69
12:AL:21:VAL:HG13	12:AL:95:TYR:CE2	2.27	0.69
17:AQ:78:GLU:OE1	17:AQ:81:ARG:HD3	1.92	0.69
35:BA:17:G:H4'	52:BU:25:TRP:CH2	2.26	0.69
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.74	0.69
35:BA:1564:C:O2'	35:BA:1565:C:H5'	1.91	0.69
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.22	0.69
42:BH:98:LEU:N	42:BH:125:VAL:HG11	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:26:LYS:HG2	56:BY:27:VAL:H	1.57	0.69
56:BY:89:PHE:C	56:BY:90:LEU:HD23	2.17	0.69
2:CB:178:ARG:NH2	8:CH:74:PRO:HG3	2.07	0.69
5:CE:39:GLY:HA2	5:CE:71:LEU:HD21	1.72	0.69
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.20	0.69
8:CH:37:ARG:HH21	8:CH:38:ILE:CG1	2.04	0.69
39:DE:48:GLN:HE22	39:DE:64:LYS:NZ	1.91	0.69
42:DH:54:ARG:HG2	42:DH:65:HIS:CD2	2.27	0.69
42:DH:68:THR:C	42:DH:70:THR:H	1.99	0.69
43:DI:88:ILE:HG12	43:DI:92:VAL:CG2	2.21	0.69
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.06	0.69
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.28	0.69
6:AF:1:MET:HA	6:AF:67:MET:O	1.92	0.69
25:B0:23:VAL:HA	25:B0:38:VAL:HG22	1.74	0.69
31:B6:36:LEU:HD23	31:B6:36:LEU:H	1.58	0.69
35:BA:833:U:H5''	47:BP:48:PRO:HB3	1.73	0.69
35:BA:1021:A:H3'	35:BA:1021:A:H8	1.57	0.69
38:BD:65:ILE:HD11	38:BD:67:PHE:CE1	2.25	0.69
46:BO:18:LYS:HB2	46:BO:45:GLU:HG2	1.73	0.69
47:BP:122:PRO:HG3	47:BP:141:ALA:O	1.92	0.69
49:BR:13:HIS:CE1	49:BR:15:SER:HB2	2.27	0.69
2:CB:140:HIS:HA	2:CB:143:GLU:HG3	1.75	0.69
4:CD:30:LYS:C	4:CD:32:ALA:H	2.00	0.69
8:CH:44:PHE:HA	8:CH:79:VAL:HG11	1.73	0.69
19:CS:64:GLU:O	19:CS:66:MET:N	2.25	0.69
34:D9:7:VAL:HG12	34:D9:34:GLN:HE21	1.57	0.69
35:DA:141:A:H8	35:DA:1408:C:O2'	1.67	0.69
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.28	0.69
38:DD:142:VAL:HG23	38:DD:193:VAL:HA	1.74	0.69
39:DE:69:LYS:NZ	39:DE:89:ASP:HA	2.07	0.69
40:DF:63:LYS:NZ	40:DF:67:GLN:HB2	2.06	0.69
50:DS:66:ALA:O	50:DS:69:VAL:HG12	1.92	0.69
52:DU:16:LYS:O	52:DU:20:LEU:HD23	1.91	0.69
1:AA:728:A:H2'	1:AA:729:A:C8	2.27	0.69
22:AV:23:C:H2'	22:AV:24:U:H6	1.52	0.69
35:BA:2472:G:H5'	35:BA:2473:U:H5''	1.74	0.69
35:BA:2761:G:C3'	35:BA:2762:G:H5''	2.23	0.69
41:BG:101:ILE:O	41:BG:105:LYS:HG3	1.92	0.69
53:BV:35:LEU:C	53:BV:37:VAL:H	1.99	0.69
57:BZ:108:PRO:HG2	57:BZ:109:ALA:H	1.56	0.69
1:CA:37:U:N3	1:CA:38:G:N7	2.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1128:C:H42	1:CA:1143:G:H1	1.39	0.69
30:D5:33:CYS:HB3	30:D5:36:CYS:O	1.92	0.69
35:DA:951:C:O2'	35:DA:952:G:H5'	1.91	0.69
35:DA:952:G:P	48:DQ:16:ARG:HH22	2.14	0.69
35:DA:1019:U:O2'	35:DA:1021:A:H2	1.74	0.69
35:DA:1047:G:H2'	35:DA:1110:G:N2	2.07	0.69
47:DP:41:ARG:CD	47:DP:41:ARG:N	2.54	0.69
47:DP:112:LEU:HD23	47:DP:113:LYS:N	2.08	0.69
53:DV:49:THR:HB	53:DV:50:PRO:CD	2.18	0.69
18:AR:47:THR:HG22	18:AR:85:LEU:H	1.57	0.69
35:BA:1530:C:C1'	35:BA:1531:C:H5'	2.21	0.69
39:BE:49:LEU:HD23	39:BE:49:LEU:N	2.07	0.69
41:BG:167:GLU:C	41:BG:169:ALA:H	2.01	0.69
43:BI:82:ARG:O	43:BI:89:TYR:HB2	1.91	0.69
53:BV:18:LEU:HD12	53:BV:18:LEU:N	2.07	0.69
1:CA:392:G:H2'	1:CA:393:A:H8	1.58	0.69
1:CA:645:C:H2'	1:CA:646:U:H6	1.57	0.69
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.75	0.69
31:D6:30:THR:HB	31:D6:31:PRO:HD2	1.73	0.69
35:DA:2408:U:H2'	35:DA:2409:G:H8	1.57	0.69
38:DD:166:GLN:CA	38:DD:166:GLN:HE21	2.06	0.69
40:DF:24:LEU:CB	40:DF:25:PRO:HD3	2.19	0.69
41:DG:82:LEU:HG	41:DG:83:ARG:H	1.58	0.69
42:DH:148:ILE:O	42:DH:162:ILE:HD11	1.91	0.69
8:AH:37:ARG:HH21	8:AH:38:ILE:CG1	2.04	0.69
10:AJ:44:VAL:HG22	10:AJ:66:ARG:HG2	1.75	0.69
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.25	0.69
19:AS:9:VAL:HG22	29:B4:53:GLU:HG3	1.72	0.69
26:B1:10:LYS:NZ	35:BA:397:G:OP2	2.18	0.69
31:B6:30:THR:HB	31:B6:31:PRO:HD2	1.74	0.69
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.18	0.69
35:BA:865:C:H4'	35:BA:866:A:N7	2.06	0.69
35:BA:952:G:P	48:BQ:16:ARG:HH22	2.15	0.69
35:BA:953:A:O2'	35:BA:954:G:H5'	1.93	0.69
40:BF:160:ASN:C	40:BF:160:ASN:HD22	1.98	0.69
12:CL:40:VAL:HG23	12:CL:52:VAL:HG21	1.74	0.69
19:CS:39:THR:O	19:CS:40:ILE:HG23	1.93	0.69
27:D2:32:LEU:HA	27:D2:35:LEU:HD12	1.73	0.69
35:DA:864:G:O2'	35:DA:865:C:H5'	1.93	0.69
35:DA:1170:G:H1	35:DA:1179:C:N4	1.91	0.69
49:DR:38:VAL:HB	49:DR:39:PRO:HD3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:30:LYS:C	4:AD:32:ALA:H	1.98	0.69
7:AG:54:THR:HG23	7:AG:56:GLN:HG2	1.73	0.69
8:AH:63:LEU:HB2	8:AH:65:TYR:HE1	1.58	0.69
13:AM:92:HIS:HB2	13:AM:98:VAL:HG23	1.75	0.69
23:AX:13:A:C4'	23:AX:14:A:H5''	2.23	0.69
24:AY:64:TYR:HB2	24:AY:92:ILE:HD13	1.66	0.69
33:B8:13:ARG:HD2	47:BP:61:ARG:HD3	1.73	0.69
35:BA:1280:G:H2'	35:BA:1281:G:H5''	1.74	0.69
35:BA:1453:U:H5'	49:BR:63:ARG:NE	2.07	0.69
35:BA:2392:A:H2	35:BA:2424:C:N4	1.87	0.69
40:BF:136:THR:HG22	40:BF:140:LEU:HD21	1.74	0.69
46:BO:1:MET:HB3	46:BO:32:TYR:HD2	1.56	0.69
50:BS:11:LYS:HE2	50:BS:11:LYS:N	2.06	0.69
22:CV:57:A:O2'	22:CV:58:A:H5'	1.92	0.69
31:D6:46:HIS:HB3	31:D6:47:THR:HG21	1.75	0.69
41:DG:106:LEU:HD12	41:DG:107:LEU:N	2.07	0.69
45:DN:97:ARG:HA	45:DN:100:GLU:HB2	1.75	0.69
51:DT:32:TYR:HD2	51:DT:81:PRO:O	1.75	0.69
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.75	0.69
1:AA:1207:G:H2'	1:AA:1208:C:C6	2.28	0.69
4:AD:153:ARG:HH11	4:AD:181:MET:HE3	1.58	0.69
15:AO:66:LEU:H	15:AO:66:LEU:CD1	2.05	0.69
20:AT:24:LEU:HD13	20:AT:24:LEU:C	2.18	0.69
22:AV:54:U:H3'	22:AV:55:U:H4'	1.71	0.69
24:AY:33:LYS:HG3	24:AY:36:GLY:CA	2.22	0.69
25:B0:43:THR:HG23	25:B0:43:THR:O	1.91	0.69
25:B0:66:VAL:HG12	25:B0:67:VAL:N	2.08	0.69
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.58	0.69
35:BA:1491:G:O2'	38:BD:101:GLU:HG3	1.91	0.69
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.07	0.69
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.22	0.69
40:BF:22:ALA:C	40:BF:24:LEU:H	2.01	0.69
41:BG:12:TYR:O	41:BG:17:PRO:HD3	1.92	0.69
41:BG:138:GLN:HE21	41:BG:153:ARG:H	1.41	0.69
42:BH:54:ARG:HG2	42:BH:65:HIS:CD2	2.27	0.69
49:BR:73:VAL:O	49:BR:76:VAL:HG12	1.92	0.69
52:BU:112:ARG:HH11	52:BU:112:ARG:HG2	1.57	0.69
1:CA:382:A:H2'	1:CA:383:A:C8	2.27	0.69
1:CA:505:G:H2'	1:CA:506:G:H8	1.57	0.69
1:CA:865:A:H2	1:CA:918:A:H4'	1.56	0.69
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:84:GLU:OE1	2:CB:216:SER:HA	1.92	0.69
6:CF:52:ILE:HD13	6:CF:87:ARG:NH1	2.07	0.69
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.08	0.69
32:D7:8:ASN:ND2	32:D7:8:ASN:C	2.50	0.69
35:DA:858:U:O2	35:DA:2268:A:H2'	1.93	0.69
35:DA:865:C:C5'	35:DA:866:A:N7	2.56	0.69
35:DA:867:C:C2'	35:DA:868:U:C5'	2.66	0.69
38:DD:133:LEU:HD13	38:DD:173:VAL:HG11	1.74	0.69
39:DE:110:GLY:O	49:DR:5:LYS:HE2	1.91	0.69
40:DF:136:THR:HG22	40:DF:140:LEU:HD21	1.75	0.69
49:DR:18:LEU:HD11	49:DR:22:ARG:CZ	2.23	0.69
50:DS:62:LYS:O	50:DS:65:VAL:HB	1.92	0.69
51:DT:28:VAL:HG21	51:DT:46:GLU:OE2	1.93	0.69
51:DT:40:THR:O	51:DT:41:ARG:HB2	1.91	0.69
53:DV:100:ARG:O	53:DV:100:ARG:HD2	1.92	0.69
56:DY:89:PHE:C	56:DY:90:LEU:HD23	2.18	0.69
1:AA:1293:G:O2'	1:AA:1294:G:H8	1.70	0.69
4:AD:156:GLU:HG2	4:AD:160:GLN:HE21	1.57	0.69
11:AK:123:LYS:O	11:AK:127:LYS:HG2	1.93	0.69
21:AU:24:ARG:HH11	21:AU:24:ARG:HG2	1.58	0.69
24:AY:73:GLY:C	24:AY:75:PHE:HE1	2.01	0.69
26:B1:67:ILE:O	26:B1:70:VAL:HG13	1.93	0.69
35:BA:864:G:O2'	35:BA:865:C:H5'	1.91	0.69
1:CA:1151:A:HO2'	1:CA:1152:A:H8	1.37	0.69
2:CB:155:LEU:HD11	2:CB:159:PRO:HD3	1.73	0.69
8:CH:20:TYR:CE2	8:CH:75:ARG:HD2	2.28	0.69
9:CI:43:ALA:HB2	9:CI:74:ILE:HD13	1.75	0.69
30:D5:20:ARG:NH1	54:DW:15:ARG:NE	2.41	0.69
35:DA:997:G:O2'	35:DA:998:C:H5'	1.92	0.69
35:DA:1021:A:H3'	35:DA:1021:A:H8	1.58	0.69
35:DA:1887:C:C2'	35:DA:1888:G:H5''	2.23	0.69
40:DF:196:LEU:C	40:DF:198:ALA:H	2.01	0.69
42:DH:19:VAL:HG23	42:DH:45:VAL:HG23	1.74	0.69
43:DI:31:LEU:H	43:DI:31:LEU:HD12	1.58	0.69
47:DP:7:ARG:CA	47:DP:7:ARG:HH11	2.05	0.69
55:DX:27:THR:HB	55:DX:80:ILE:HB	1.73	0.69
55:DX:65:ARG:HH11	55:DX:65:ARG:HG2	1.57	0.69
1:AA:358:U:H5''	43:DI:87:LYS:HD3	1.75	0.69
1:AA:801:U:H2'	1:AA:802:A:C8	2.23	0.69
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.08	0.69
10:AJ:29:ARG:HB3	10:AJ:29:ARG:HH11	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:15:ILE:HB	29:B4:31:ILE:O	1.93	0.69
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.22	0.69
35:BA:2302:G:H1'	41:BG:128:ARG:HE	1.58	0.69
57:BZ:63:ASP:CB	57:BZ:65:GLN:HE21	2.06	0.69
1:CA:626:U:H2'	1:CA:627:G:C8	2.27	0.69
1:CA:807:A:H2'	1:CA:808:C:C6	2.28	0.69
2:CB:70:PHE:HB2	2:CB:92:TYR:HB2	1.73	0.69
2:CB:192:SER:OG	2:CB:196:LEU:HD21	1.93	0.69
3:CC:34:LEU:HD22	14:CN:25:VAL:HG11	1.75	0.69
7:CG:32:ARG:HH11	7:CG:32:ARG:HG2	1.57	0.69
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.75	0.69
17:CQ:57:VAL:HG12	17:CQ:76:LEU:HA	1.75	0.69
25:D0:72:ARG:HH11	25:D0:75:LEU:HD13	1.58	0.69
26:D1:35:THR:OG1	35:DA:2079:U:O3'	2.11	0.69
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.56	0.69
37:DC:72:VAL:HG12	37:DC:74:VAL:HG23	1.74	0.69
39:DE:41:LYS:HB2	39:DE:41:LYS:NZ	2.07	0.69
41:DG:48:GLU:O	41:DG:51:ARG:HG2	1.92	0.69
45:DN:48:MET:HE3	45:DN:48:MET:O	1.93	0.69
50:DS:49:VAL:HG12	50:DS:73:LEU:HD23	1.75	0.69
1:AA:688:G:H2'	1:AA:689:C:H6	1.58	0.68
2:AB:192:SER:OG	2:AB:196:LEU:HD21	1.93	0.68
8:AH:64:LYS:HG2	8:AH:79:VAL:HG21	1.74	0.68
11:AK:38:ASN:HD22	11:AK:38:ASN:N	1.91	0.68
14:AN:33:VAL:HG12	14:AN:40:CYS:HB3	1.74	0.68
23:AX:24:A:O4'	23:AX:25:A:H5'	1.93	0.68
24:AY:55:ASP:CG	24:AY:58:ALA:HB3	2.19	0.68
36:BB:8:U:O2'	50:BS:40:ILE:HD13	1.92	0.68
40:BF:2:LYS:C	40:BF:24:LEU:HG	2.18	0.68
52:BU:66:ASN:ND2	52:BU:70:ARG:HE	1.91	0.68
2:CB:211:ILE:O	2:CB:215:LEU:HD23	1.93	0.68
10:CJ:29:ARG:HB3	10:CJ:29:ARG:HH11	1.58	0.68
15:CO:82:ILE:HG12	15:CO:87:ILE:CG1	2.21	0.68
20:CT:89:ARG:HH21	20:CT:104:LEU:HD11	1.56	0.68
21:CU:2:GLY:O	21:CU:4:GLY:N	2.26	0.68
26:D1:23:LYS:HD2	26:D1:28:GLY:CA	2.23	0.68
31:D6:42:TRP:HA	31:D6:42:TRP:HE3	1.58	0.68
35:DA:145:G:H2'	35:DA:146:G:C5'	2.22	0.68
35:DA:880:G:H1	35:DA:897:C:N4	1.91	0.68
41:DG:111:LEU:CD2	41:DG:120:LEU:HD21	2.23	0.68
42:DH:41:MET:HE2	42:DH:54:ARG:HA	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:82:ARG:C	43:DI:89:TYR:HB2	2.16	0.68
56:DY:28:LYS:HA	56:DY:39:VAL:H	1.58	0.68
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.28	0.68
2:AB:19:HIS:ND1	2:AB:20:GLU:HG2	2.07	0.68
10:AJ:28:ARG:HA	10:AJ:34:VAL:HG23	1.73	0.68
11:AK:48:ILE:HD11	11:AK:64:ALA:HA	1.73	0.68
31:B6:46:HIS:HB3	31:B6:47:THR:HG21	1.75	0.68
31:B6:52:VAL:HG12	31:B6:53:LYS:N	2.08	0.68
35:BA:145:G:H2'	35:BA:146:G:C5'	2.23	0.68
35:BA:880:G:H1	35:BA:897:C:N4	1.91	0.68
35:BA:926:A:H5'	35:BA:926:A:H8	1.58	0.68
35:BA:1047:G:H2'	35:BA:1110:G:N2	2.07	0.68
35:BA:1481:U:H5'	35:BA:1482:G:OP2	1.93	0.68
45:BN:97:ARG:HA	45:BN:100:GLU:HB2	1.74	0.68
1:CA:1004:A:H5''	1:CA:1025:U:H3	1.56	0.68
1:CA:1060:C:O2	1:CA:1198:G:C2	2.46	0.68
1:CA:1301:U:H2'	1:CA:1303:C:C5	2.25	0.68
4:CD:114:ARG:HG3	4:CD:114:ARG:NH1	2.07	0.68
5:CE:68:GLU:O	5:CE:70:PRO:HD3	1.94	0.68
5:CE:78:HIS:CE1	5:CE:142:LEU:HD23	2.28	0.68
5:CE:103:GLY:H	5:CE:106:PRO:HG2	1.59	0.68
6:CF:88:VAL:HG12	6:CF:88:VAL:O	1.93	0.68
7:CG:47:CYS:O	7:CG:50:ILE:HB	1.94	0.68
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.58	0.68
29:D4:24:THR:HG22	29:D4:25:TYR:N	2.06	0.68
35:DA:284:U:H2'	35:DA:285:C:H6	1.58	0.68
35:DA:1453:U:H5'	49:DR:63:ARG:NE	2.08	0.68
35:DA:1654:A:OP2	49:DR:3:HIS:HB2	1.94	0.68
35:DA:2469:A:H2	35:DA:2481:G:H21	1.41	0.68
38:DD:65:ILE:HD11	38:DD:67:PHE:CZ	2.28	0.68
42:DH:83:TYR:HD1	42:DH:84:SER:H	1.38	0.68
43:DI:133:HIS:HB3	43:DI:134:PRO:HD2	1.75	0.68
45:DN:78:TYR:CD1	45:DN:78:TYR:N	2.57	0.68
47:DP:16:ARG:HD3	47:DP:18:ARG:H	1.58	0.68
54:DW:65:LEU:O	54:DW:66:GLU:O	2.10	0.68
56:DY:19:LYS:HD2	56:DY:20:TYR:CE1	2.29	0.68
56:DY:29:GLU:N	56:DY:29:GLU:OE1	2.25	0.68
1:AA:243:A:H4'	1:AA:244:U:H5''	1.75	0.68
1:AA:1059:C:O2	10:AJ:53:PRO:HG3	1.93	0.68
3:AC:34:LEU:HD22	14:AN:25:VAL:HG11	1.74	0.68
5:AE:39:GLY:HA2	5:AE:71:LEU:HD21	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.74	0.68
18:AR:53:ARG:HH21	18:AR:59:SER:CA	2.06	0.68
22:AV:54:U:C4'	22:AV:55:U:H5''	2.23	0.68
23:AX:21:C:O2'	23:AX:22:A:C5'	2.41	0.68
24:AY:24:LEU:C	24:AY:25:LYS:HG2	2.18	0.68
35:BA:1598:C:H5'	55:BX:36:LYS:HB2	1.75	0.68
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.55	0.68
2:CB:96:ARG:HD2	2:CB:96:ARG:N	2.07	0.68
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.27	0.68
14:CN:26:ARG:NH1	14:CN:47:LEU:HD21	2.08	0.68
35:DA:212:G:O2'	35:DA:213:A:H5'	1.93	0.68
35:DA:271(M):G:H2'	35:DA:271(N):U:H5''	1.73	0.68
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.56	0.68
55:DX:30:VAL:HG21	55:DX:39:ILE:HD11	1.76	0.68
56:DY:26:LYS:HG2	56:DY:27:VAL:H	1.57	0.68
56:DY:52:SER:HB3	56:DY:55:TYR:HE1	1.57	0.68
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	1.94	0.68
35:BA:1419:A:O2'	35:BA:1420:U:H5''	1.92	0.68
39:BE:183:LEU:HD11	51:BT:11:GLU:OE2	1.93	0.68
47:BP:122:PRO:HG3	47:BP:141:ALA:HB1	1.76	0.68
48:BQ:12:GLN:HG2	48:BQ:73:PRO:HD2	1.75	0.68
51:BT:19:LEU:HD22	51:BT:85:LYS:HG3	1.75	0.68
1:CA:373:A:O2'	1:CA:374:A:H5'	1.94	0.68
1:CA:737:A:H2'	1:CA:738:C:H6	1.56	0.68
1:CA:1338:G:O2'	1:CA:1339:A:H5'	1.93	0.68
6:CF:63:TYR:O	6:CF:65:VAL:HG13	1.93	0.68
35:DA:92:A:N3	35:DA:93:G:O4'	2.27	0.68
35:DA:2302:G:H1'	41:DG:128:ARG:NH2	2.08	0.68
39:DE:200:GLU:OE2	39:DE:200:GLU:N	2.25	0.68
42:DH:83:TYR:O	42:DH:84:SER:HB2	1.93	0.68
57:DZ:56:VAL:HG22	57:DZ:70:LEU:HG	1.76	0.68
57:DZ:101:PRO:O	57:DZ:102:LEU:HD23	1.93	0.68
1:AA:1029:C:H4'	1:AA:1033:G:H22	1.59	0.68
1:AA:1144:G:N2	1:AA:1146:A:H62	1.91	0.68
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.59	0.68
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.29	0.68
10:AJ:39:PRO:HB3	10:AJ:70:ARG:NH1	2.08	0.68
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.75	0.68
25:B0:81:VAL:O	25:B0:83:PRO:HD3	1.93	0.68
31:B6:11:LEU:HD22	31:B6:12:GLU:H	1.58	0.68
33:B8:50:LEU:HA	33:B8:53:PRO:HG3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1916:A:H2'	35:BA:1917:U:O4'	1.93	0.68
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.54	0.68
42:BH:8:PRO:HD3	42:BH:69:ARG:CD	2.23	0.68
43:BI:133:HIS:HB3	43:BI:134:PRO:HD2	1.75	0.68
45:BN:128:HIS:HD2	45:BN:130:HIS:HB2	1.58	0.68
46:BO:111:PHE:O	46:BO:115:VAL:HG23	1.92	0.68
50:BS:62:LYS:O	50:BS:65:VAL:HB	1.93	0.68
53:BV:19:LYS:HG3	53:BV:20:LEU:N	2.07	0.68
1:CA:428:G:OP2	4:CD:7:PRO:HG2	1.94	0.68
1:CA:940:C:H2'	1:CA:941:G:H8	1.57	0.68
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.56	0.68
4:CD:25:ARG:NH1	4:CD:30:LYS:HB3	2.08	0.68
22:CW:51:C:H2'	22:CW:52:G:O4'	1.93	0.68
29:D4:52:THR:HG22	29:D4:53:GLU:N	2.05	0.68
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.29	0.68
41:DG:81:LYS:HB3	41:DG:81:LYS:HZ2	1.59	0.68
43:DI:102:SER:CB	43:DI:109:ILE:HB	2.23	0.68
2:AB:211:ILE:O	2:AB:215:LEU:HD23	1.94	0.68
39:BE:116:VAL:O	39:BE:117:MET:HB2	1.92	0.68
47:BP:6:LEU:HG	47:BP:8:PRO:HD2	1.76	0.68
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.28	0.68
35:DA:2761:G:H3'	35:DA:2762:G:H5''	1.75	0.68
42:DH:8:PRO:HD3	42:DH:69:ARG:CD	2.23	0.68
42:DH:15:VAL:C	42:DH:16:SER:HG	1.98	0.68
46:DO:19:ILE:HG22	46:DO:43:VAL:HA	1.76	0.68
50:DS:106:ARG:HD2	50:DS:107:GLU:O	1.93	0.68
51:DT:80:SER:CB	51:DT:81:PRO:HD3	2.23	0.68
1:AA:624:C:H2'	1:AA:625:G:C8	2.28	0.68
1:AA:1207:G:H2'	1:AA:1208:C:H6	1.59	0.68
2:AB:140:HIS:HA	2:AB:143:GLU:HG3	1.74	0.68
39:BE:65:GLY:C	39:BE:67:PHE:H	2.02	0.68
42:BH:41:MET:HE2	42:BH:54:ARG:HA	1.75	0.68
51:BT:13:ARG:HA	51:BT:13:ARG:CZ	2.23	0.68
3:CC:94:LEU:H	3:CC:94:LEU:CD2	2.04	0.68
33:D8:13:ARG:HD2	47:DP:61:ARG:CD	2.24	0.68
33:D8:50:LEU:HA	33:D8:53:PRO:HG3	1.75	0.68
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.19	0.68
35:DA:1280:G:C2'	35:DA:1281:G:H5''	2.23	0.68
35:DA:1771:C:HO2'	35:DA:1786:A:H8	1.41	0.68
38:DD:145:VAL:HG12	38:DD:146:GLU:O	1.93	0.68
56:DY:10:GLY:CA	56:DY:27:VAL:HG13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:28:LYS:HB3	56:DY:37:VAL:HB	1.75	0.68
1:AA:386:C:C2'	1:AA:387:U:H5'	2.24	0.68
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.28	0.68
35:BA:914:C:H2'	35:BA:915:C:H5'	1.76	0.68
38:BD:28:GLU:CD	38:BD:28:GLU:N	2.52	0.68
47:BP:112:LEU:HD23	47:BP:113:LYS:N	2.08	0.68
1:CA:692:U:OP1	11:CK:124:LYS:HE2	1.93	0.68
1:CA:1254:C:OP1	10:CJ:45:ARG:HG3	1.94	0.68
2:CB:162:ILE:CD1	2:CB:184:VAL:HA	2.23	0.68
39:DE:55:ASN:HB2	39:DE:72:VAL:HG11	1.75	0.68
40:DF:22:ALA:C	40:DF:24:LEU:H	2.00	0.68
1:AA:382:A:H2'	1:AA:383:A:C8	2.27	0.68
1:AA:447:G:H2'	1:AA:485:G:N2	2.08	0.68
1:AA:762:C:H2'	1:AA:763:G:H8	1.57	0.68
1:AA:950:U:H2'	1:AA:951:G:C8	2.28	0.68
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.29	0.68
2:AB:34:ALA:HB1	2:AB:36:ARG:HH11	1.58	0.68
4:AD:188:LEU:HD12	4:AD:188:LEU:H	1.59	0.68
6:AF:19:LEU:O	6:AF:19:LEU:HD23	1.94	0.68
16:AP:71:ARG:NH1	16:AP:71:ARG:HB2	2.08	0.68
19:AS:39:THR:O	19:AS:40:ILE:HG23	1.94	0.68
22:AV:28:C:H2'	22:AV:29:G:H8	1.58	0.68
33:B8:4:MET:HB2	33:B8:61:LEU:HD11	1.74	0.68
35:BA:1654:A:OP2	49:BR:3:HIS:HB2	1.94	0.68
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.58	0.68
35:BA:2777:G:H5''	35:BA:2778:A:H5''	1.75	0.68
39:BE:116:VAL:O	39:BE:117:MET:CB	2.42	0.68
42:BH:8:PRO:HD3	42:BH:69:ARG:HD2	1.76	0.68
50:BS:49:VAL:HG12	50:BS:73:LEU:HD23	1.75	0.68
50:BS:106:ARG:HD2	50:BS:107:GLU:O	1.93	0.68
1:CA:106:C:H2'	1:CA:107:G:H8	1.59	0.68
1:CA:1463:C:H2'	1:CA:1464:G:H8	1.58	0.68
3:CC:182:ILE:HG23	3:CC:202:ILE:O	1.93	0.68
13:CM:3:ARG:HH21	13:CM:7:VAL:HG22	1.59	0.68
21:CU:6:ARG:HE	21:CU:15:ARG:NH2	1.92	0.68
25:D0:43:THR:O	25:D0:43:THR:HG23	1.93	0.68
33:D8:2:PRO:HA	35:DA:591:C:O2	1.94	0.68
35:DA:905:U:C3'	35:DA:906:G:H5''	2.24	0.68
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.09	0.68
38:DD:125:ILE:HD13	38:DD:136:ILE:HG23	1.74	0.68
48:DQ:43:THR:HG1	48:DQ:46:GLN:HG3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:134:ARG:HG2	57:DZ:122:ARG:NH1	2.08	0.68
52:DU:112:ARG:HH11	52:DU:112:ARG:HG2	1.57	0.68
1:AA:235:C:H1'	17:AQ:61:GLU:OE2	1.94	0.68
1:AA:1095:U:H5'	1:AA:1109:C:O2	1.93	0.68
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	1.93	0.68
16:AP:76:GLN:C	16:AP:78:GLY:H	2.02	0.68
32:B7:8:ASN:HD21	32:B7:11:LYS:H	1.41	0.68
35:BA:528:A:H2	35:BA:2043:C:H5'	1.58	0.68
35:BA:1170:G:H1	35:BA:1179:C:N4	1.92	0.68
35:BA:1192:G:O2'	35:BA:1193:G:H5'	1.94	0.68
35:BA:1533:G:C3'	35:BA:1543:C:OP2	2.35	0.68
35:BA:2777:G:H4'	35:BA:2778:A:H5'	1.74	0.68
39:BE:41:LYS:HB2	39:BE:41:LYS:NZ	2.09	0.68
40:BF:33:LEU:O	40:BF:37:VAL:HG23	1.94	0.68
43:BI:31:LEU:H	43:BI:31:LEU:HD12	1.59	0.68
45:BN:24:GLY:HA2	45:BN:27:ALA:HB3	1.76	0.68
54:BW:12:ILE:HD13	54:BW:17:VAL:HG22	1.75	0.68
57:BZ:35:ARG:HA	57:BZ:35:ARG:CZ	2.24	0.68
1:CA:235:C:H1'	17:CQ:61:GLU:OE2	1.94	0.68
1:CA:639:G:H2'	1:CA:640:A:H8	1.56	0.68
1:CA:1144:G:N2	1:CA:1146:A:H62	1.92	0.68
1:CA:1439:C:H2'	1:CA:1439:C:O2	1.94	0.68
4:CD:13:ARG:HD2	4:CD:38:TYR:O	1.93	0.68
11:CK:123:LYS:O	11:CK:127:LYS:HG2	1.94	0.68
26:D1:82:LEU:O	26:D1:83:GLU:HG2	1.93	0.68
27:D2:64:LEU:HD22	27:D2:68:ARG:HH11	1.59	0.68
35:DA:857:C:H2'	35:DA:857:C:O2	1.94	0.68
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.76	0.68
43:DI:92:VAL:HG21	43:DI:142:VAL:HG13	1.74	0.68
11:AK:12:ARG:HG2	11:AK:13:GLN:H	1.60	0.67
22:AV:54:U:C3'	22:AV:55:U:H4'	2.23	0.67
35:BA:2637:U:H5''	39:BE:82:ARG:HH21	1.59	0.67
46:BO:19:ILE:HG22	46:BO:43:VAL:HA	1.75	0.67
47:BP:13:ASN:C	47:BP:13:ASN:ND2	2.49	0.67
47:BP:38:GLN:CG	47:BP:39:LYS:H	1.99	0.67
48:BQ:133:ARG:HG2	48:BQ:134:ARG:N	2.09	0.67
1:CA:4:U:H4'	1:CA:5:U:OP1	1.92	0.67
1:CA:35:G:N3	12:CL:115:SER:HA	2.09	0.67
1:CA:1471:G:O2'	1:CA:1472:U:H5'	1.94	0.67
9:CI:40:LEU:HD23	9:CI:42:ARG:H	1.60	0.67
11:CK:22:HIS:HB3	11:CK:29:ILE:CG2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:651:G:N2	35:DA:652:C:H41	1.91	0.67
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.76	0.67
50:DS:18:ILE:C	50:DS:20:ARG:H	2.02	0.67
1:AA:1125:U:H2'	1:AA:1281:U:O2	1.93	0.67
1:AA:1226:C:H4'	19:AS:80:TYR:CE2	2.30	0.67
20:AT:53:LEU:H	20:AT:53:LEU:HD12	1.59	0.67
23:AX:14:A:C6	23:AX:15:A:C2	2.82	0.67
24:AY:13:PRO:O	24:AY:13:PRO:HG2	1.93	0.67
26:B1:69:LYS:O	26:B1:73:LEU:HB2	1.94	0.67
35:BA:816:C:O2'	35:BA:817:C:H5'	1.94	0.67
35:BA:860:U:H5	35:BA:917:A:N7	1.92	0.67
36:BB:52:A:H62	50:BS:33:LYS:HB2	1.59	0.67
38:BD:166:GLN:HE21	38:BD:166:GLN:CA	2.06	0.67
38:BD:267:SER:C	38:BD:269:PHE:H	2.02	0.67
42:BH:19:VAL:HG23	42:BH:45:VAL:HG23	1.74	0.67
48:BQ:108:GLY:HA3	57:BZ:116:VAL:HG11	1.76	0.67
52:BU:92:ARG:CZ	53:BV:11:GLN:H	2.08	0.67
53:BV:39:LEU:O	53:BV:40:LEU:HB2	1.93	0.67
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.74	0.67
1:CA:642:A:N3	8:CH:113:SER:HB3	2.09	0.67
2:CB:30:ARG:NH2	2:CB:194:PRO:HB2	2.10	0.67
2:CB:52:GLU:HG2	2:CB:56:ARG:NH1	2.06	0.67
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.76	0.67
4:CD:92:VAL:O	4:CD:96:LEU:HD13	1.93	0.67
30:D5:43:HIS:HD2	35:DA:2815:C:O2'	1.76	0.67
35:DA:1419:A:O2'	35:DA:1420:U:H5''	1.93	0.67
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.24	0.67
35:DA:2769:C:H2'	35:DA:2770:G:H8	1.59	0.67
35:DA:2777:G:H4'	35:DA:2778:A:H5'	1.76	0.67
39:DE:51:PHE:HD1	39:DE:52:LEU:N	1.92	0.67
50:DS:49:VAL:CG1	50:DS:76:LYS:HE3	2.25	0.67
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.28	0.67
1:AA:1385:G:O2'	1:AA:1386:G:H5'	1.95	0.67
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.75	0.67
2:AB:162:ILE:CD1	2:AB:184:VAL:HA	2.24	0.67
9:AI:23:ASN:HD22	9:AI:23:ASN:H	1.41	0.67
27:B2:38:GLN:O	27:B2:41:ILE:HG12	1.94	0.67
30:B5:43:HIS:HD2	35:BA:2815:C:O2'	1.76	0.67
33:B8:2:PRO:HA	35:BA:591:C:O2	1.93	0.67
39:BE:5:LEU:HB2	39:BE:51:PHE:HD2	1.58	0.67
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:162:LEU:HD22	40:BF:162:LEU:H	1.59	0.67
47:BP:48:PRO:O	47:BP:49:ARG:C	2.36	0.67
51:BT:23:ARG:HH21	51:BT:120:ARG:HD3	1.56	0.67
1:CA:950:U:H2'	1:CA:951:G:C8	2.29	0.67
1:CA:950:U:H2'	1:CA:951:G:H8	1.59	0.67
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.29	0.67
1:CA:1349:A:H2'	1:CA:1350:A:O4'	1.93	0.67
9:CI:22:GLY:H	9:CI:59:PHE:HA	1.59	0.67
25:D0:66:VAL:HG12	25:D0:67:VAL:N	2.08	0.67
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	1.94	0.67
35:DA:997:G:OP1	52:DU:93:LYS:HD3	1.94	0.67
38:DD:147:LEU:CD1	38:DD:155:LEU:HD11	2.24	0.67
38:DD:267:SER:C	38:DD:269:PHE:H	2.02	0.67
39:DE:101:ARG:HH11	39:DE:171:GLU:N	1.92	0.67
41:DG:60:LEU:O	41:DG:64:THR:HG22	1.95	0.67
48:DQ:60:ARG:HA	57:DZ:179:ASP:HB3	1.75	0.67
50:DS:69:VAL:O	50:DS:72:ALA:HB3	1.93	0.67
1:AA:189(E):U:O2'	1:AA:189(F):U:H5'	1.95	0.67
1:AA:1400:C:H1'	23:AX:18:G:O6	1.94	0.67
2:AB:144:ARG:HA	2:AB:147:LYS:HB3	1.76	0.67
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.62	0.67
12:AL:40:VAL:HG23	12:AL:52:VAL:HG21	1.77	0.67
12:AL:107:VAL:HG21	12:AL:117:TYR:CD2	2.25	0.67
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.57	0.67
22:AW:8:U:H3	22:AW:14:A:H62	1.42	0.67
25:B0:51:VAL:N	25:B0:62:LEU:HD12	2.09	0.67
26:B1:73:LEU:CD1	26:B1:94:LEU:HB3	2.24	0.67
35:BA:1434:A:H61	35:BA:1558:A:H62	1.42	0.67
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.10	0.67
49:BR:12:ARG:HG3	49:BR:12:ARG:HH11	1.59	0.67
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.29	0.67
9:CI:23:ASN:H	9:CI:23:ASN:HD22	1.42	0.67
18:CR:36:ASN:HB3	18:CR:39:VAL:CG2	2.24	0.67
35:DA:2222:G:O2'	35:DA:2223:G:H5'	1.93	0.67
35:DA:2653:U:H5''	35:DA:2654:A:H2'	1.76	0.67
39:DE:116:VAL:O	39:DE:117:MET:HB2	1.93	0.67
1:AA:962:C:H2'	1:AA:963:G:C8	2.30	0.67
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.76	0.67
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD13	1.75	0.67
35:BA:144:C:H2'	35:BA:145:G:H8	1.60	0.67
35:BA:858:U:O2	35:BA:2268:A:H2'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.30	0.67
36:BB:44:G:H5''	36:BB:45:A:OP1	1.94	0.67
41:BG:155:MET:O	41:BG:155:MET:HE2	1.95	0.67
43:BI:77:LEU:HD23	43:BI:78:THR:N	2.09	0.67
55:BX:44:GLU:HG2	55:BX:51:VAL:HG23	1.75	0.67
18:CR:71:LYS:HA	18:CR:74:ARG:HG3	1.75	0.67
20:CT:24:LEU:C	20:CT:24:LEU:HD13	2.18	0.67
21:CU:6:ARG:HG2	21:CU:15:ARG:HH12	1.59	0.67
28:D3:6:VAL:HG12	28:D3:56:VAL:HG12	1.76	0.67
31:D6:11:LEU:HD22	31:D6:12:GLU:H	1.58	0.67
38:DD:27:THR:CG2	38:DD:83:GLU:HB3	2.25	0.67
46:DO:102:VAL:HB	46:DO:106:LEU:HD12	1.77	0.67
52:DU:92:ARG:HD2	52:DU:95:LEU:HD12	1.76	0.67
53:DV:39:LEU:O	53:DV:40:LEU:HB2	1.94	0.67
53:DV:99:ILE:H	53:DV:99:ILE:CD1	2.06	0.67
1:AA:145:G:C2	1:AA:146:G:H1'	2.30	0.67
1:AA:190:U:H2'	1:AA:191:G:H8	1.60	0.67
1:AA:337:C:H2'	1:AA:338:A:C8	2.28	0.67
1:AA:474:G:H2'	1:AA:475:G:H8	1.59	0.67
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.30	0.67
9:AI:22:GLY:H	9:AI:59:PHE:HA	1.59	0.67
18:AR:38:GLU:OE2	18:AR:41:LYS:HD3	1.94	0.67
35:BA:27:G:H22	35:BA:512:G:H2'	1.58	0.67
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.60	0.67
47:BP:75:ILE:HD13	47:BP:77:ARG:NH1	2.09	0.67
49:BR:87:TYR:O	49:BR:89:ASP:N	2.20	0.67
51:BT:28:VAL:HG13	51:BT:46:GLU:HA	1.75	0.67
53:BV:18:LEU:HD13	53:BV:19:LYS:N	2.10	0.67
56:BY:28:LYS:HB3	56:BY:37:VAL:HB	1.76	0.67
1:CA:386:C:O2'	1:CA:387:U:H5'	1.95	0.67
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.30	0.67
2:CB:144:ARG:HA	2:CB:147:LYS:HB3	1.76	0.67
3:CC:187:ALA:C	3:CC:188:LEU:HD22	2.20	0.67
22:CV:53:G:N2	22:CV:62:C:C2	2.62	0.67
35:DA:1280:G:H2'	35:DA:1281:G:H5''	1.76	0.67
35:DA:1347:G:H8	35:DA:1347:G:H5'	1.60	0.67
36:DB:44:G:H5''	36:DB:45:A:OP1	1.95	0.67
39:DE:41:LYS:HB2	39:DE:41:LYS:HZ3	1.59	0.67
19:AS:15:LEU:O	19:AS:19:VAL:HG23	1.95	0.67
19:AS:33:THR:HG22	19:AS:34:TRP:N	2.09	0.67
23:AX:21:C:H2'	23:AX:22:A:H5'	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:47:ASN:O	27:B2:49:LYS:N	2.27	0.67
35:BA:1106:A:H2'	35:BA:1107:G:C8	2.30	0.67
35:BA:2758:A:C2	35:BA:2759:G:H1'	2.30	0.67
41:BG:63:ILE:HG21	41:BG:141:PHE:HB3	1.76	0.67
46:BO:90:GLN:O	46:BO:91:LEU:HB2	1.94	0.67
47:BP:16:ARG:HD3	47:BP:18:ARG:H	1.59	0.67
51:BT:29:ARG:HG2	51:BT:86:ILE:N	2.10	0.67
53:BV:35:LEU:O	53:BV:37:VAL:N	2.28	0.67
56:BY:28:LYS:CA	56:BY:38:ILE:HG22	2.24	0.67
1:CA:624:C:O3'	16:CP:10:GLY:HA2	1.94	0.67
1:CA:1165:C:H2'	1:CA:1166:G:C8	2.30	0.67
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.58	0.67
4:CD:105:VAL:HG21	4:CD:126:ILE:HG12	1.77	0.67
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.75	0.67
28:D3:4:LEU:O	28:D3:36:VAL:HA	1.94	0.67
30:D5:33:CYS:HG	30:D5:46:CYS:HG	1.42	0.67
35:DA:271(A):A:H5'	35:DA:271(B):C:OP2	1.95	0.67
35:DA:539:G:H2'	35:DA:540:C:C6	2.30	0.67
35:DA:610:G:H2'	35:DA:611:C:C6	2.30	0.67
35:DA:1106:A:H2'	35:DA:1107:G:C8	2.30	0.67
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.60	0.67
35:DA:2842:G:O2'	35:DA:2843:G:H5'	1.95	0.67
56:DY:50:ARG:HG3	56:DY:55:TYR:O	1.94	0.67
1:AA:1250:A:H5'	9:AI:67:GLY:HA2	1.74	0.67
1:AA:1269:A:OP1	21:AU:24:ARG:HD2	1.94	0.67
5:AE:68:GLU:O	5:AE:70:PRO:HD3	1.95	0.67
18:AR:66:LEU:O	18:AR:70:ILE:HG13	1.95	0.67
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.76	0.67
23:AX:23:A:HO2'	23:AX:24:A:H8	1.41	0.67
24:AY:94:LYS:HG3	24:AY:94:LYS:O	1.94	0.67
27:B2:44:LEU:HD12	27:B2:44:LEU:H	1.60	0.67
38:BD:145:VAL:HG12	38:BD:146:GLU:O	1.94	0.67
45:BN:48:MET:HE3	45:BN:48:MET:O	1.95	0.67
57:BZ:81:ARG:HG3	57:BZ:82:ARG:N	2.10	0.67
57:BZ:97:GLU:HG2	57:BZ:127:LYS:HG2	1.77	0.67
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.10	0.67
28:D3:3:ARG:HB2	28:D3:3:ARG:NH1	2.06	0.67
29:D4:28:LYS:HG3	29:D4:30:GLU:HB2	1.76	0.67
33:D8:4:MET:HB2	33:D8:61:LEU:HD11	1.77	0.67
33:D8:61:LEU:HD23	33:D8:61:LEU:N	2.09	0.67
35:DA:2052:G:H4'	39:DE:143:ASN:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:6:LEU:O	47:DP:10:PRO:HB3	1.95	0.67
49:DR:73:VAL:O	49:DR:76:VAL:HG12	1.94	0.67
57:DZ:10:ARG:HB2	57:DZ:37:VAL:O	1.94	0.67
1:AA:437:U:H2'	1:AA:438:G:O4'	1.95	0.67
1:AA:726:C:H2'	1:AA:727:G:H8	1.59	0.67
2:AB:142:LEU:HD21	2:AB:146:GLN:HE21	1.60	0.67
4:AD:31:CYS:C	4:AD:33:MET:H	2.02	0.67
11:AK:22:HIS:HB3	11:AK:29:ILE:CG2	2.25	0.67
14:AN:26:ARG:NH1	14:AN:47:LEU:HD21	2.09	0.67
19:AS:5:LEU:HD13	19:AS:7:LYS:H	1.60	0.67
24:AY:82:GLN:HG2	24:AY:83:LEU:H	1.60	0.67
28:B3:4:LEU:O	28:B3:36:VAL:HA	1.94	0.67
35:BA:284:U:H2'	35:BA:285:C:H6	1.59	0.67
45:BN:96:GLU:CD	45:BN:96:GLU:H	2.01	0.67
47:BP:41:ARG:N	47:BP:41:ARG:CD	2.56	0.67
51:BT:80:SER:CB	51:BT:81:PRO:HD3	2.23	0.67
1:CA:253:U:H2'	1:CA:254:G:H8	1.60	0.67
1:CA:1399:C:H4'	1:CA:1400:C:H5''	1.75	0.67
4:CD:184:LYS:NZ	4:CD:184:LYS:HB3	2.09	0.67
12:CL:114:ARG:HB3	12:CL:119:THR:O	1.95	0.67
58:CX:14:A:C2'	58:CX:15:A:H5''	2.23	0.67
35:DA:1598:C:H5'	55:DX:36:LYS:HB2	1.75	0.67
35:DA:2377:A:H5''	50:DS:107:GLU:OE2	1.95	0.67
35:DA:2758:A:C2	35:DA:2759:G:H1'	2.29	0.67
41:DG:114:ILE:HD12	41:DG:117:PHE:CD2	2.30	0.67
42:DH:106:THR:HG22	42:DH:112:PRO:HB3	1.77	0.67
43:DI:82:ARG:H	43:DI:82:ARG:CD	2.05	0.67
46:DO:71:ARG:HH11	46:DO:71:ARG:HG3	1.60	0.67
47:DP:23:PRO:HB2	47:DP:33:ARG:NE	2.10	0.67
1:AA:34:C:H5'	1:AA:34:C:C6	2.21	0.67
1:AA:80:G:H3'	1:AA:81:U:C5'	2.25	0.67
1:AA:235:C:H2'	1:AA:236:G:H8	1.60	0.67
2:AB:96:ARG:HD2	2:AB:96:ARG:N	2.09	0.67
12:AL:99:ARG:HG3	12:AL:99:ARG:HH11	1.59	0.67
19:AS:21:GLU:HG3	19:AS:22:LEU:HD22	1.77	0.67
29:B4:24:THR:HG23	41:BG:5:VAL:CG1	2.23	0.67
35:BA:1346:G:H2'	35:BA:1347:G:C5'	2.21	0.67
35:BA:2653:U:H5''	35:BA:2654:A:H2'	1.75	0.67
39:BE:4:ILE:HG13	39:BE:31:CYS:SG	2.34	0.67
43:BI:82:ARG:C	43:BI:89:TYR:HB2	2.19	0.67
43:BI:83:ALA:HB2	43:BI:88:ILE:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:75:ILE:H	47:BP:75:ILE:HD12	1.60	0.67
55:BX:65:ARG:HH11	55:BX:65:ARG:HG2	1.60	0.67
1:CA:589:C:O2'	1:CA:590:C:H5'	1.94	0.67
1:CA:1104:G:H2'	1:CA:1105:A:H8	1.60	0.67
1:CA:1440:C:O2'	1:CA:1441:G:H5'	1.94	0.67
29:D4:15:ILE:HB	29:D4:31:ILE:O	1.95	0.67
35:DA:80:G:O2'	35:DA:81:G:H5'	1.95	0.67
35:DA:607:U:H3	35:DA:621:A:H2	1.43	0.67
35:DA:860:U:H5	35:DA:917:A:N7	1.93	0.67
35:DA:1040:C:H42	35:DA:1115:G:H1	1.41	0.67
35:DA:1434:A:H61	35:DA:1558:A:H62	1.41	0.67
35:DA:1915:U:C4	35:DA:1916:A:N7	2.63	0.67
38:DD:125:ILE:HD12	38:DD:137:PRO:CD	2.24	0.67
39:DE:65:GLY:C	39:DE:67:PHE:H	2.03	0.67
41:DG:40:ASN:HB2	41:DG:90:LEU:O	1.95	0.67
45:DN:24:GLY:HA2	45:DN:27:ALA:HB3	1.77	0.67
49:DR:57:ARG:O	49:DR:59:ASP:N	2.27	0.67
49:DR:81:ASP:O	49:DR:85:PRO:HG2	1.94	0.67
53:DV:19:LYS:HB3	53:DV:94:LEU:O	1.95	0.67
57:DZ:44:PHE:CE2	57:DZ:86:VAL:HG11	2.30	0.67
2:AB:137:ARG:HD3	2:AB:138:LEU:N	2.09	0.66
2:AB:215:LEU:O	2:AB:219:VAL:HG23	1.96	0.66
3:AC:34:LEU:HB2	3:AC:38:ARG:NH2	2.09	0.66
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.20	0.66
13:AM:90:LEU:C	13:AM:92:HIS:H	2.03	0.66
26:B1:45:ASN:HD21	35:BA:2090:G:N2	1.84	0.66
32:B7:12:ARG:HD3	32:B7:46:VAL:HG21	1.76	0.66
36:BB:7:G:H4'	50:BS:29:PHE:CD1	2.30	0.66
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	2.10	0.66
49:BR:18:LEU:HD11	49:BR:22:ARG:CZ	2.25	0.66
56:BY:96:ILE:HG22	56:BY:97:ARG:N	2.10	0.66
57:BZ:127:LYS:N	57:BZ:162:GLU:O	2.29	0.66
57:BZ:165:VAL:HG12	57:BZ:166:SER:N	2.08	0.66
3:CC:3:ASN:N	3:CC:3:ASN:ND2	2.40	0.66
7:CG:54:THR:HG23	7:CG:56:GLN:HG2	1.76	0.66
10:CJ:39:PRO:HB3	10:CJ:70:ARG:NH1	2.10	0.66
11:CK:12:ARG:HG2	11:CK:13:GLN:H	1.60	0.66
12:CL:48:ALA:O	12:CL:49:LEU:HD12	1.94	0.66
26:D1:35:THR:HG21	35:DA:2080:G:OP1	1.95	0.66
27:D2:2:LYS:CB	35:DA:97:C:H5''	2.25	0.66
27:D2:28:LYS:HE3	27:D2:56:GLN:OE1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:322:A:H3'	40:DF:169:ASN:ND2	2.09	0.66
35:DA:866:A:H2'	35:DA:866:A:N3	2.09	0.66
35:DA:1346:G:H2'	35:DA:1347:G:C5'	2.23	0.66
35:DA:2312:U:O2'	41:DG:71:THR:HG21	1.95	0.66
45:DN:96:GLU:CD	45:DN:96:GLU:H	2.03	0.66
47:DP:38:GLN:HG3	47:DP:39:LYS:N	2.04	0.66
49:DR:87:TYR:O	49:DR:89:ASP:N	2.23	0.66
51:DT:28:VAL:HG13	51:DT:46:GLU:HA	1.77	0.66
1:AA:434:U:H2'	1:AA:435:C:C6	2.29	0.66
4:AD:13:ARG:HD2	4:AD:38:TYR:O	1.95	0.66
8:AH:20:TYR:CE2	8:AH:75:ARG:HD2	2.30	0.66
19:AS:64:GLU:O	19:AS:66:MET:N	2.24	0.66
21:AU:6:ARG:HE	21:AU:15:ARG:NH2	1.93	0.66
22:AV:20:U:H5'	22:AV:21:A:OP2	1.95	0.66
35:BA:905:U:C3'	35:BA:906:G:H5''	2.25	0.66
38:BD:32:SER:O	38:BD:36:PRO:HD3	1.95	0.66
39:BE:55:ASN:HB2	39:BE:72:VAL:HG11	1.76	0.66
41:BG:29:TRP:CE3	41:BG:29:TRP:HA	2.30	0.66
1:CA:45:U:H6	1:CA:45:U:O5'	1.78	0.66
13:CM:90:LEU:C	13:CM:92:HIS:H	2.02	0.66
33:D8:25:MET:CG	47:DP:64:LYS:HB3	2.21	0.66
35:DA:141:A:C8	35:DA:1408:C:O2'	2.43	0.66
35:DA:2206:G:H3'	35:DA:2206:G:N3	2.11	0.66
36:DB:80:U:H2'	36:DB:81:G:H21	1.60	0.66
42:DH:8:PRO:HD3	42:DH:69:ARG:HD2	1.76	0.66
47:DP:100:LEU:N	47:DP:100:LEU:HD22	2.10	0.66
56:DY:96:ILE:HG22	56:DY:97:ARG:N	2.08	0.66
1:AA:224:C:H2'	1:AA:225:C:C6	2.30	0.66
1:AA:555:C:H2'	1:AA:556:C:H6	1.60	0.66
1:AA:1123:A:H5'	10:AJ:36:GLY:HA3	1.75	0.66
1:AA:1152:A:H5''	10:AJ:13:HIS:ND1	2.10	0.66
12:AL:48:ALA:O	12:AL:49:LEU:HD12	1.94	0.66
15:AO:29:VAL:HG12	15:AO:30:ALA:N	2.10	0.66
16:AP:51:VAL:HG12	16:AP:52:ASP:N	2.09	0.66
16:AP:73:LEU:H	16:AP:73:LEU:CD1	2.07	0.66
35:BA:1887:C:C2'	35:BA:1888:G:H5''	2.24	0.66
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.26	0.66
35:BA:2761:G:H3'	35:BA:2762:G:H5''	1.75	0.66
40:BF:196:LEU:C	40:BF:198:ALA:H	2.02	0.66
41:BG:83:ARG:HG3	41:BG:83:ARG:HH11	1.61	0.66
42:BH:9:ILE:HG22	42:BH:51:ARG:HG3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:17:ARG:HA	50:BS:20:ARG:NH1	2.10	0.66
50:BS:68:GLN:HA	50:BS:71:ARG:HH12	1.60	0.66
53:BV:1:MET:HE1	53:BV:43:GLU:OE2	1.95	0.66
54:BW:5:ALA:HB2	54:BW:54:ALA:HB2	1.78	0.66
57:BZ:151:HIS:HB3	57:BZ:170:THR:HG23	1.77	0.66
1:CA:585:G:P	17:CQ:37:LYS:HE2	2.35	0.66
1:CA:839:U:H3'	1:CA:839:U:O2	1.94	0.66
15:CO:66:LEU:CD1	15:CO:66:LEU:H	2.07	0.66
21:CU:2:GLY:C	21:CU:4:GLY:H	2.02	0.66
33:D8:59:LYS:HZ3	33:D8:59:LYS:CB	2.05	0.66
35:DA:1114:G:H3'	35:DA:1115:G:H5''	1.76	0.66
38:DD:33:LEU:C	38:DD:33:LEU:HD23	2.20	0.66
56:DY:84:ARG:HH12	56:DY:97:ARG:HB3	1.60	0.66
57:DZ:28:MET:HB3	57:DZ:88:PHE:HB2	1.77	0.66
1:AA:444:C:H2'	1:AA:445:G:H8	1.61	0.66
1:AA:1301:U:H2'	1:AA:1303:C:C5	2.29	0.66
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.75	0.66
30:B5:52:TYR:CD1	30:B5:53:ALA:N	2.63	0.66
35:BA:1021:A:H3'	35:BA:1021:A:C8	2.30	0.66
35:BA:1040:C:H42	35:BA:1115:G:H1	1.42	0.66
35:BA:1490:A:O5'	35:BA:1490:A:H8	1.74	0.66
35:BA:2580:U:C5'	39:BE:131:ALA:H	2.06	0.66
41:BG:40:ASN:CB	41:BG:91:ARG:HB2	2.24	0.66
41:BG:71:THR:HG22	41:BG:89:GLY:CA	2.26	0.66
46:BO:102:VAL:HB	46:BO:106:LEU:HD12	1.77	0.66
1:CA:235:C:H2'	1:CA:236:G:H8	1.59	0.66
1:CA:587:G:O2'	1:CA:588:G:OP2	2.09	0.66
1:CA:1107:C:C2'	1:CA:1108:G:H5''	2.25	0.66
2:CB:137:ARG:HD3	2:CB:138:LEU:N	2.10	0.66
3:CC:34:LEU:HB2	3:CC:38:ARG:NH2	2.10	0.66
4:CD:188:LEU:H	4:CD:188:LEU:HD12	1.59	0.66
7:CG:137:LYS:O	7:CG:141:VAL:HG23	1.96	0.66
12:CL:72:HIS:CD2	12:CL:74:LEU:HB2	2.29	0.66
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.21	0.66
22:CV:59:A:H2'	22:CV:60:U:H5'	1.77	0.66
35:DA:1481:U:H5'	35:DA:1482:G:OP2	1.95	0.66
35:DA:2593:U:H2'	35:DA:2594:C:H6	1.59	0.66
36:DB:35:U:O2'	36:DB:36:C:H5'	1.95	0.66
41:DG:167:GLU:C	41:DG:169:ALA:H	2.02	0.66
46:DO:107:ARG:HH22	51:DT:35:LYS:HD2	1.60	0.66
47:DP:6:LEU:HG	47:DP:8:PRO:HD2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:6:SER:OG	49:DR:7:GLY:N	2.29	0.66
50:DS:13:ARG:HG3	50:DS:14:VAL:N	2.06	0.66
52:DU:92:ARG:CZ	53:DV:11:GLN:H	2.09	0.66
53:DV:18:LEU:HD13	53:DV:19:LYS:N	2.10	0.66
57:DZ:5:LEU:HA	57:DZ:6:LYS:NZ	2.11	0.66
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.19	0.66
24:AY:33:LYS:O	24:AY:35:ASN:N	2.29	0.66
32:B7:7:PRO:HB2	35:BA:1309:G:H4'	1.78	0.66
35:BA:89:G:H3'	35:BA:90:U:H5'	1.78	0.66
35:BA:1278:A:O2'	35:BA:1279:G:H5'	1.94	0.66
35:BA:1719:G:O2'	35:BA:1720:U:H5'	1.95	0.66
35:BA:2684:U:P	51:BT:53:ARG:HE	2.18	0.66
38:BD:154:LYS:C	38:BD:155:LEU:HD12	2.21	0.66
41:BG:117:PHE:CE1	41:BG:119:GLY:HA2	2.30	0.66
42:BH:83:TYR:O	42:BH:84:SER:HB2	1.93	0.66
50:BS:56:LEU:O	50:BS:56:LEU:HD23	1.95	0.66
51:BT:28:VAL:HG21	51:BT:46:GLU:OE2	1.95	0.66
56:BY:81:LYS:HB3	56:BY:96:ILE:CG2	2.25	0.66
1:CA:545:C:H5''	4:CD:72:GLU:HG2	1.78	0.66
1:CA:607:A:C2	16:CP:31:LYS:HG3	2.30	0.66
2:CB:107:THR:C	2:CB:109:SER:H	2.04	0.66
10:CJ:54:PHE:CE1	10:CJ:55:LYS:HE3	2.31	0.66
12:CL:21:VAL:HG13	12:CL:95:TYR:CE2	2.30	0.66
12:CL:37:VAL:O	12:CL:38:ARG:HG3	1.94	0.66
15:CO:29:VAL:HG12	15:CO:30:ALA:N	2.09	0.66
18:CR:38:GLU:OE2	18:CR:41:LYS:HD3	1.94	0.66
25:D0:23:VAL:HA	25:D0:38:VAL:HG22	1.78	0.66
26:D1:5:CYS:SG	26:D1:8:SER:OG	2.54	0.66
29:D4:7:PRO:HG2	41:DG:65:GLY:O	1.95	0.66
35:DA:1332:G:N2	35:DA:1609:A:O2'	2.29	0.66
35:DA:2728:U:O2'	35:DA:2729:G:H5'	1.95	0.66
36:DB:55:U:H2'	36:DB:56:G:C8	2.31	0.66
48:DQ:140:ALA:O	48:DQ:141:GLN:HB2	1.96	0.66
51:DT:13:ARG:HA	51:DT:13:ARG:CZ	2.25	0.66
53:DV:98:GLU:OE1	53:DV:100:ARG:HG2	1.96	0.66
1:AA:59:A:C5'	1:AA:60:A:H5''	2.26	0.66
1:AA:1107:C:C3'	1:AA:1108:G:H5''	2.26	0.66
1:AA:1165:C:H2'	1:AA:1166:G:C8	2.31	0.66
10:AJ:34:VAL:CG1	10:AJ:35:SER:H	2.08	0.66
15:AO:82:ILE:HG12	15:AO:87:ILE:CG1	2.24	0.66
30:B5:50:GLY:O	30:B5:51:TYR:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:146:G:H5'	35:BA:146:G:C8	2.29	0.66
35:BA:2408:U:H2'	35:BA:2409:G:H8	1.59	0.66
35:BA:2790:A:H2'	35:BA:2893:G:O2'	1.96	0.66
41:BG:48:GLU:HG3	41:BG:49:ASP:OD1	1.96	0.66
48:BQ:133:ARG:HB2	48:BQ:133:ARG:NH1	2.06	0.66
49:BR:38:VAL:HB	49:BR:39:PRO:HD3	1.76	0.66
50:BS:69:VAL:O	50:BS:72:ALA:HB3	1.96	0.66
55:BX:30:VAL:HG21	55:BX:39:ILE:HD11	1.75	0.66
2:CB:34:ALA:HB1	2:CB:36:ARG:HH11	1.59	0.66
8:CH:11:THR:HG22	8:CH:15:ASN:HD21	1.61	0.66
11:CK:38:ASN:N	11:CK:38:ASN:HD22	1.91	0.66
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.31	0.66
17:CQ:45:HIS:CD2	17:CQ:47:PRO:HD3	2.31	0.66
19:CS:43:GLU:C	19:CS:44:MET:HE3	2.19	0.66
35:DA:330:A:HO2'	35:DA:331:A:H8	1.44	0.66
35:DA:1913:A:OP2	35:DA:1914:C:P	2.53	0.66
35:DA:2061:G:H5''	35:DA:2503:A:C2	2.31	0.66
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.28	0.66
37:DC:44:HIS:HB2	37:DC:211:SER:O	1.96	0.66
38:DD:28:GLU:N	38:DD:28:GLU:CD	2.52	0.66
41:DG:105:LYS:NZ	41:DG:142:PRO:HG2	2.10	0.66
49:DR:81:ASP:HB2	49:DR:82:GLU:OE2	1.96	0.66
1:AA:1442:G:N7	1:AA:1442(B):A:H2	1.94	0.66
4:AD:19:LEU:HB3	4:AD:21:LEU:HG	1.78	0.66
4:AD:132:ARG:HG2	4:AD:132:ARG:HH11	1.60	0.66
11:AK:99:GLN:CG	11:AK:105:VAL:HG11	2.26	0.66
13:AM:3:ARG:HH21	13:AM:7:VAL:HG22	1.60	0.66
19:AS:43:GLU:C	19:AS:44:MET:HE3	2.21	0.66
27:B2:65:ASN:O	27:B2:69:ARG:HB2	1.94	0.66
35:BA:17:G:H2'	35:BA:18:C:C6	2.31	0.66
35:BA:1332:G:N2	35:BA:1609:A:O2'	2.29	0.66
35:BA:2222:G:O2'	35:BA:2223:G:H5'	1.96	0.66
35:BA:2377:A:H5''	50:BS:107:GLU:OE2	1.96	0.66
35:BA:2469:A:H2	35:BA:2481:G:H21	1.42	0.66
45:BN:36:GLY:HA3	45:BN:48:MET:CE	2.24	0.66
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.09	0.66
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.75	0.66
10:CJ:50:ILE:HG22	10:CJ:60:ARG:HD3	1.78	0.66
14:CN:26:ARG:HG3	14:CN:39:LEU:HD21	1.77	0.66
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.76	0.66
22:CW:26:G:H5''	22:CW:27:U:H5	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:23:VAL:HG21	35:DA:857:C:H4'	1.77	0.66
35:DA:1907:G:O2'	35:DA:1908:C:H5'	1.95	0.66
41:DG:52:ILE:H	41:DG:52:ILE:CD1	2.08	0.66
50:DS:56:LEU:O	50:DS:56:LEU:HD23	1.95	0.66
51:DT:23:ARG:NH2	51:DT:120:ARG:HD3	2.10	0.66
57:DZ:4:ARG:CG	57:DZ:58:VAL:HB	2.23	0.66
1:AA:328:C:H4'	1:AA:329:A:H5'	1.78	0.66
4:AD:184:LYS:NZ	4:AD:184:LYS:HB3	2.11	0.66
35:BA:80:G:O2'	35:BA:81:G:H5'	1.96	0.66
35:BA:557:U:H2'	35:BA:558:G:H8	1.60	0.66
35:BA:2182:G:H2'	35:BA:2183:C:H6	1.60	0.66
39:BE:69:LYS:NZ	39:BE:89:ASP:HA	2.11	0.66
39:BE:101:ARG:HH11	39:BE:171:GLU:N	1.93	0.66
41:BG:41:GLN:HG2	41:BG:155:MET:CB	2.26	0.66
42:BH:154:PRO:O	42:BH:156:ALA:N	2.28	0.66
46:BO:87:ILE:HG21	46:BO:91:LEU:HA	1.77	0.66
51:BT:32:TYR:HD2	51:BT:81:PRO:O	1.78	0.66
57:BZ:113:ALA:HB1	57:BZ:146:ILE:HD11	1.77	0.66
4:CD:19:LEU:HB3	4:CD:21:LEU:HG	1.78	0.66
16:CP:76:GLN:C	16:CP:78:GLY:H	2.03	0.66
18:CR:53:ARG:HH21	18:CR:59:SER:CA	2.06	0.66
19:CS:33:THR:HG22	19:CS:34:TRP:N	2.11	0.66
24:CY:6:GLY:N	24:CY:7:HIS:CE1	2.63	0.66
25:D0:51:VAL:HG22	25:D0:81:VAL:HG23	1.76	0.66
35:DA:962:G:O2'	35:DA:963:U:H5'	1.95	0.66
35:DA:1718:G:H5'	35:DA:1718:G:H8	1.60	0.66
35:DA:2305:A:H62	41:DG:42:GLY:HA3	1.61	0.66
37:DC:46:LYS:HE3	37:DC:171:ILE:O	1.96	0.66
42:DH:70:THR:HG22	42:DH:74:ASN:ND2	2.11	0.66
42:DH:154:PRO:O	42:DH:156:ALA:N	2.28	0.66
45:DN:134:ARG:O	45:DN:136:GLU:N	2.29	0.66
47:DP:23:PRO:CB	47:DP:33:ARG:HD2	2.20	0.66
47:DP:40:SER:HB3	47:DP:41:ARG:HH21	1.61	0.66
47:DP:48:PRO:O	47:DP:49:ARG:C	2.38	0.66
47:DP:75:ILE:HD13	47:DP:77:ARG:NH1	2.10	0.66
48:DQ:134:ARG:HG2	57:DZ:122:ARG:HH12	1.60	0.66
56:DY:95:LYS:NZ	56:DY:99:CYS:N	2.41	0.66
1:AA:807:A:H2'	1:AA:808:C:C6	2.31	0.66
1:AA:1492:A:H4'	1:AA:1493:A3P:O4P	1.96	0.66
3:AC:33:LEU:HD11	14:AN:53:LEU:HD23	1.76	0.66
3:AC:120:VAL:HA	3:AC:123:GLN:HE21	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:49:ILE:HA	7:AG:52:GLU:CG	2.26	0.66
9:AI:3:GLN:HG2	9:AI:20:ARG:HG2	1.78	0.66
9:AI:126:SER:O	9:AI:127:LYS:HB3	1.95	0.66
35:BA:2653:U:H3'	35:BA:2654:A:H8	1.61	0.66
37:BC:46:LYS:HE3	37:BC:171:ILE:O	1.96	0.66
41:BG:14:GLU:O	41:BG:18:GLU:HB2	1.95	0.66
42:BH:106:THR:HG22	42:BH:112:PRO:HB3	1.77	0.66
47:BP:6:LEU:O	47:BP:10:PRO:HB3	1.95	0.66
56:BY:19:LYS:HD2	56:BY:20:TYR:CE1	2.30	0.66
1:CA:591:U:H2'	1:CA:592:G:H8	1.61	0.66
1:CA:1107:C:C3'	1:CA:1108:G:H5''	2.26	0.66
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.76	0.66
8:CH:103:VAL:HG21	8:CH:109:ILE:C	2.21	0.66
35:DA:2491:U:H4'	35:DA:2570:G:OP1	1.96	0.66
35:DA:2542:A:H5''	35:DA:2542:A:N3	2.11	0.66
41:DG:40:ASN:C	41:DG:155:MET:HB2	2.21	0.66
43:DI:83:ALA:HB2	43:DI:88:ILE:HA	1.77	0.66
47:DP:64:LYS:C	47:DP:66:GLY:N	2.52	0.66
49:DR:11:ASN:N	49:DR:11:ASN:OD1	2.28	0.66
57:DZ:69:THR:HG22	57:DZ:90:VAL:HG22	1.77	0.66
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.10	0.66
1:AA:1442(A):G:H2'	51:BT:118:ARG:HH11	1.60	0.66
3:AC:179:ARG:O	3:AC:206:GLU:HG3	1.96	0.66
9:AI:111:ARG:CG	9:AI:112:LYS:H	2.09	0.66
10:AJ:39:PRO:HB3	10:AJ:70:ARG:HH11	1.60	0.66
10:AJ:80:LYS:O	10:AJ:84:GLN:HG3	1.96	0.66
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.77	0.66
23:AX:13:A:C3'	23:AX:14:A:C5'	2.74	0.66
24:AY:82:GLN:C	24:AY:83:LEU:CD2	2.69	0.66
33:B8:34:TRP:HA	35:BA:2420:C:OP1	1.96	0.66
35:BA:141:A:C8	35:BA:1408:C:O2'	2.43	0.66
35:BA:587:C:H2'	47:BP:33:ARG:NH2	2.11	0.66
35:BA:925:C:O2'	35:BA:926:A:H5''	1.95	0.66
35:BA:1805:U:O2	38:BD:50:THR:HB	1.96	0.66
35:BA:2792:G:H1	35:BA:2804:C:H42	1.44	0.66
38:BD:15:PHE:O	38:BD:205:VAL:HG11	1.95	0.66
39:BE:9:VAL:HG13	39:BE:25:VAL:O	1.95	0.66
39:BE:51:PHE:HD1	39:BE:52:LEU:N	1.94	0.66
39:BE:105:THR:O	39:BE:196:VAL:HG23	1.96	0.66
42:BH:70:THR:HG22	42:BH:74:ASN:ND2	2.11	0.66
46:BO:71:ARG:HG3	46:BO:71:ARG:HH11	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:105:LEU:H	47:BP:105:LEU:HD12	1.61	0.66
52:BU:53:ARG:HG3	52:BU:53:ARG:HH11	1.61	0.66
53:BV:49:THR:HB	53:BV:50:PRO:CD	2.19	0.66
56:BY:14:LEU:HD12	56:BY:15:VAL:H	1.60	0.66
56:BY:66:PRO:O	56:BY:67:LEU:HB3	1.96	0.66
1:CA:839:U:O2	1:CA:839:U:C2'	2.44	0.66
1:CA:1385:G:O2'	1:CA:1386:G:H5'	1.96	0.66
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.31	0.66
8:CH:63:LEU:HB2	8:CH:65:TYR:HE1	1.60	0.66
12:CL:99:ARG:HH11	12:CL:99:ARG:HG3	1.61	0.66
26:D1:67:ILE:O	26:D1:70:VAL:HG22	1.96	0.66
27:D2:69:ARG:HG3	27:D2:69:ARG:HH11	1.60	0.66
35:DA:1021:A:H3'	35:DA:1021:A:C8	2.31	0.66
39:DE:48:GLN:HE22	39:DE:64:LYS:HZ3	1.42	0.66
49:DR:98:LEU:HB2	49:DR:113:LEU:CD2	2.25	0.66
1:AA:106:C:H2'	1:AA:107:G:H8	1.61	0.65
1:AA:392:G:H2'	1:AA:393:A:H8	1.59	0.65
1:AA:728:A:H2'	1:AA:729:A:H8	1.59	0.65
3:AC:35:GLU:HA	3:AC:38:ARG:NE	2.12	0.65
7:AG:6:ARG:NH1	7:AG:6:ARG:HB2	2.10	0.65
24:AY:55:ASP:CB	24:AY:58:ALA:HB3	2.25	0.65
24:AY:57:GLN:HG2	35:BA:1913:A:N3	2.09	0.65
27:B2:39:ALA:HA	27:B2:45:SER:HB3	1.78	0.65
29:B4:52:THR:HG22	29:B4:53:GLU:N	2.05	0.65
32:B7:8:ASN:ND2	32:B7:8:ASN:C	2.53	0.65
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.96	0.65
35:BA:2115:G:N2	35:BA:2118:U:H5''	2.10	0.65
36:BB:35:U:O2'	36:BB:36:C:H5'	1.95	0.65
41:BG:138:GLN:HE21	41:BG:152:LEU:HA	1.59	0.65
1:CA:624:C:H2'	1:CA:625:G:C8	2.31	0.65
2:CB:114:ARG:O	2:CB:114:ARG:HD3	1.96	0.65
13:CM:40:ASN:ND2	13:CM:43:THR:HG23	2.11	0.65
19:CS:22:LEU:HD13	19:CS:27:GLU:HB2	1.77	0.65
35:DA:1592:C:O2'	35:DA:1593:G:H5''	1.96	0.65
35:DA:2115:G:N2	35:DA:2118:U:H5''	2.10	0.65
38:DD:8:PRO:HG3	38:DD:14:ARG:HB2	1.76	0.65
38:DD:28:GLU:CD	38:DD:28:GLU:H	2.04	0.65
39:DE:36:ARG:NH2	39:DE:88:GLY:HA2	2.11	0.65
42:DH:9:ILE:HG22	42:DH:51:ARG:HG3	1.77	0.65
44:DJ:62:UNK:HA	44:DJ:65:UNK:O	1.96	0.65
47:DP:7:ARG:HD2	47:DP:7:ARG:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:17:ARG:HA	50:DS:20:ARG:NH1	2.12	0.65
51:DT:28:VAL:HG22	51:DT:46:GLU:CA	2.25	0.65
1:AA:240:C:H2'	1:AA:241:C:C6	2.32	0.65
2:AB:44:LEU:N	2:AB:44:LEU:HD22	2.12	0.65
22:AW:19:G:C8	22:AW:57:A:H2	2.14	0.65
27:B2:10:LEU:HB3	27:B2:14:ARG:NH1	2.10	0.65
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.29	0.65
38:BD:242:ARG:HH11	38:BD:242:ARG:HG2	1.60	0.65
40:BF:82:ILE:O	40:BF:82:ILE:HG13	1.95	0.65
41:BG:41:GLN:HB3	41:BG:43:LEU:HD13	1.77	0.65
41:BG:112:PRO:HB2	41:BG:113:ARG:HG3	1.77	0.65
47:BP:133:SER:HA	47:BP:136:GLU:HG2	1.77	0.65
53:BV:19:LYS:HB3	53:BV:94:LEU:O	1.96	0.65
1:CA:34:C:H2'	1:CA:35:G:H5''	1.78	0.65
1:CA:1380:U:N3	7:CG:3:ARG:HD3	2.11	0.65
2:CB:11:LEU:HD12	2:CB:217:ARG:NH1	2.11	0.65
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.26	0.65
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.96	0.65
9:CI:10:ARG:HH22	9:CI:108:VAL:HA	1.61	0.65
9:CI:27:THR:OG1	9:CI:32:ASP:HA	1.95	0.65
10:CJ:50:ILE:H	10:CJ:50:ILE:CD1	2.05	0.65
12:CL:7:LEU:HD11	12:CL:12:ARG:HE	1.60	0.65
22:CW:13:C:H2'	22:CW:14:A:H8	1.60	0.65
35:DA:518:G:H4'	54:DW:18:ARG:HH12	1.61	0.65
35:DA:1564:C:O2'	35:DA:1565:C:H5'	1.96	0.65
43:DI:95:LYS:C	43:DI:97:ILE:H	2.04	0.65
45:DN:17:ASP:OD2	45:DN:19:GLU:HG3	1.96	0.65
45:DN:40:PRO:HB3	52:DU:68:ALA:HB2	1.78	0.65
1:AA:950:U:H2'	1:AA:951:G:H8	1.61	0.65
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.30	0.65
2:AB:155:LEU:HD11	2:AB:159:PRO:HD3	1.76	0.65
5:AE:148:VAL:HG21	8:AH:107:LEU:HD13	1.77	0.65
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.61	0.65
11:AK:101:SER:C	11:AK:103:LEU:H	2.04	0.65
29:B4:6:HIS:HB3	41:BG:67:LYS:HE3	1.77	0.65
38:BD:13:ARG:NH1	38:BD:16:MET:SD	2.68	0.65
38:BD:30:GLU:HG3	38:BD:63:ARG:NH2	2.12	0.65
38:BD:44:ASN:OD1	38:BD:44:ASN:N	2.30	0.65
39:BE:77:ILE:HG22	39:BE:78:LEU:CD1	2.26	0.65
41:BG:57:ALA:O	41:BG:68:PRO:HG3	1.96	0.65
47:BP:7:ARG:HH11	47:BP:7:ARG:N	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:421:U:H2'	1:CA:421:U:O2	1.95	0.65
1:CA:1051:C:N3	1:CA:1207:G:N2	2.43	0.65
4:CD:153:ARG:NH1	4:CD:181:MET:HE3	2.12	0.65
11:CK:54:ARG:HH12	22:CW:40:C:H5'	1.61	0.65
15:CO:10:LYS:HE2	15:CO:10:LYS:HA	1.78	0.65
26:D1:64:ALA:HA	26:D1:67:ILE:HG13	1.78	0.65
32:D7:10:ARG:HH11	32:D7:14:LYS:HE3	1.60	0.65
35:DA:90:U:H1'	35:DA:92:A:N7	2.10	0.65
35:DA:185:U:H4'	35:DA:218:A:H4'	1.78	0.65
35:DA:903:C:O2'	35:DA:904:C:H5''	1.97	0.65
35:DA:1826:G:H4'	38:DD:242:ARG:NE	2.12	0.65
35:DA:2722:G:H2'	35:DA:2723:C:H6	1.61	0.65
38:DD:44:ASN:OD1	38:DD:44:ASN:N	2.28	0.65
39:DE:11:MET:HB2	39:DE:23:VAL:O	1.95	0.65
40:DF:10:PRO:O	40:DF:11:VAL:HG13	1.97	0.65
50:DS:99:LYS:O	50:DS:101:LEU:N	2.30	0.65
51:DT:14:TYR:HD1	51:DT:14:TYR:H	1.43	0.65
53:DV:35:LEU:O	53:DV:37:VAL:N	2.29	0.65
1:AA:1014:A:H4'	19:AS:14:HIS:ND1	2.12	0.65
2:AB:107:THR:C	2:AB:109:SER:H	2.05	0.65
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.78	0.65
21:AU:6:ARG:HG2	21:AU:15:ARG:HH12	1.60	0.65
35:BA:997:G:OP1	52:BU:93:LYS:HD3	1.97	0.65
35:BA:2801(A):A:H5'	35:BA:2802:G:C8	2.32	0.65
38:BD:240:ALA:HB1	38:BD:241:PRO:HD2	1.78	0.65
40:BF:10:PRO:O	40:BF:11:VAL:HG13	1.96	0.65
41:BG:145:THR:OG1	41:BG:148:MET:HB2	1.96	0.65
49:BR:57:ARG:O	49:BR:59:ASP:N	2.28	0.65
53:BV:38:LEU:HD22	53:BV:52:VAL:HG11	1.78	0.65
1:CA:227:G:H2'	1:CA:228:A:C8	2.31	0.65
1:CA:437:U:H2'	1:CA:438:G:O4'	1.96	0.65
1:CA:1060:C:H5	3:CC:2:GLY:CA	1.98	0.65
1:CA:1347:G:OP2	9:CI:107:ARG:HB3	1.96	0.65
2:CB:215:LEU:O	2:CB:219:VAL:HG23	1.95	0.65
3:CC:120:VAL:HA	3:CC:123:GLN:HE21	1.60	0.65
22:CW:13:C:H2'	22:CW:14:A:C8	2.31	0.65
35:DA:1210:A:H5''	35:DA:1212:G:O4'	1.95	0.65
35:DA:1592:C:H2'	35:DA:1593:G:C5'	2.26	0.65
38:DD:17:THR:O	38:DD:204:ILE:HG23	1.95	0.65
39:DE:116:VAL:O	39:DE:117:MET:CB	2.43	0.65
39:DE:183:LEU:HD11	51:DT:11:GLU:OE2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:2:LYS:HB2	40:DF:24:LEU:CD1	2.27	0.65
1:AA:626:U:H2'	1:AA:627:G:C8	2.32	0.65
1:AA:764:C:H2'	1:AA:765:G:H8	1.61	0.65
2:AB:52:GLU:HG2	2:AB:56:ARG:NH1	2.07	0.65
4:AD:205:GLU:OE1	5:AE:100:VAL:HG22	1.97	0.65
7:AG:137:LYS:O	7:AG:141:VAL:HG23	1.96	0.65
26:B1:35:THR:HG21	35:BA:2080:G:OP1	1.96	0.65
29:B4:28:LYS:HG3	29:B4:30:GLU:HB2	1.77	0.65
41:BG:110:ALA:C	41:BG:112:PRO:HD2	2.21	0.65
41:BG:165:THR:OG1	41:BG:168:GLU:HG2	1.96	0.65
47:BP:29:LYS:HB3	47:BP:34:GLY:H	1.61	0.65
49:BR:81:ASP:HB2	49:BR:82:GLU:OE2	1.97	0.65
55:BX:80:ILE:HD13	55:BX:80:ILE:C	2.21	0.65
57:BZ:53:ILE:HG22	57:BZ:71:VAL:O	1.96	0.65
1:CA:11:G:C2'	1:CA:12:U:C5'	2.73	0.65
1:CA:1124:G:H4'	10:CJ:35:SER:OG	1.96	0.65
1:CA:1187:G:H4'	9:CI:111:ARG:NH1	2.12	0.65
7:CG:49:ILE:HA	7:CG:52:GLU:CG	2.25	0.65
10:CJ:44:VAL:HG22	10:CJ:66:ARG:HG2	1.77	0.65
19:CS:36:ARG:HB2	19:CS:72:GLY:H	1.62	0.65
22:CW:63:G:H2'	22:CW:64:G:H8	1.62	0.65
35:DA:1925:C:O2'	35:DA:1926:U:H5'	1.96	0.65
35:DA:2182:G:H2'	35:DA:2183:C:H6	1.59	0.65
35:DA:2315:G:H21	41:DG:128:ARG:NH1	1.95	0.65
35:DA:2580:U:C5'	39:DE:131:ALA:H	2.10	0.65
35:DA:2653:U:H3'	35:DA:2654:A:H8	1.59	0.65
43:DI:61:ARG:O	43:DI:65:ALA:HB3	1.97	0.65
47:DP:7:ARG:HH11	47:DP:7:ARG:N	1.94	0.65
47:DP:133:SER:HA	47:DP:136:GLU:HG2	1.78	0.65
50:DS:87:PHE:O	50:DS:88:ASP:HB2	1.96	0.65
57:DZ:108:PRO:HD3	57:DZ:141:VAL:O	1.97	0.65
1:AA:775:G:O2'	1:AA:776:G:H5'	1.96	0.65
18:AR:71:LYS:HA	18:AR:74:ARG:HG3	1.79	0.65
23:AX:21:C:C2'	23:AX:22:A:H2	2.09	0.65
33:B8:13:ARG:HD2	47:BP:61:ARG:CD	2.26	0.65
35:BA:876:C:H2'	35:BA:877:U:O4'	1.97	0.65
35:BA:1174:A:OP1	35:BA:1175:U:H5''	1.97	0.65
36:BB:28:C:H2'	36:BB:29:A:C8	2.31	0.65
36:BB:55:U:H2'	36:BB:56:G:C8	2.31	0.65
42:BH:8:PRO:O	42:BH:9:ILE:HG12	1.97	0.65
51:BT:117:ASP:O	51:BT:121:ILE:HG13	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1104:G:H2'	1:CA:1105:A:C8	2.30	0.65
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.61	0.65
2:CB:100:GLY:O	2:CB:104:ASN:N	2.22	0.65
12:CL:41:THR:HG23	24:CY:7:HIS:CB	2.27	0.65
22:CV:51:C:H6	22:CV:51:C:C5'	2.10	0.65
31:D6:13:CYS:O	31:D6:21:TYR:HA	1.96	0.65
35:DA:184:C:H2'	35:DA:185:U:C6	2.31	0.65
35:DA:914:C:H2'	35:DA:915:C:H5'	1.78	0.65
38:DD:270:ILE:C	38:DD:271:ILE:HG12	2.21	0.65
39:DE:4:ILE:HD13	39:DE:28:ALA:HB1	1.77	0.65
42:DH:158:HIS:CD2	42:DH:170:ARG:HA	2.32	0.65
56:DY:66:PRO:O	56:DY:67:LEU:HB3	1.95	0.65
2:AB:11:LEU:HD12	2:AB:217:ARG:NH1	2.12	0.65
4:AD:25:ARG:NH1	4:AD:30:LYS:HB3	2.12	0.65
6:AF:23:LYS:O	6:AF:27:GLN:HG2	1.96	0.65
9:AI:10:ARG:HH22	9:AI:108:VAL:HA	1.61	0.65
10:AJ:49:VAL:O	10:AJ:60:ARG:HB2	1.97	0.65
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	2.11	0.65
24:AY:45:GLY:O	24:AY:48:GLY:N	2.30	0.65
27:B2:3:LEU:HD12	27:B2:7:ARG:HH21	1.62	0.65
31:B6:13:CYS:O	31:B6:21:TYR:HA	1.96	0.65
33:B8:50:LEU:O	33:B8:51:ALA:HB2	1.96	0.65
35:BA:1171:G:C8	35:BA:1173:G:H1'	2.31	0.65
35:BA:1453:U:H5'	49:BR:63:ARG:HE	1.62	0.65
36:BB:42:C:H4'	41:BG:67:LYS:CG	2.26	0.65
41:BG:32:PRO:HB2	41:BG:172:LEU:HD22	1.78	0.65
45:BN:20:GLY:O	45:BN:61:ARG:HG2	1.96	0.65
47:BP:7:ARG:O	47:BP:10:PRO:HG3	1.97	0.65
51:BT:23:ARG:NH2	51:BT:120:ARG:HD3	2.11	0.65
1:CA:1508:G:H2'	1:CA:1509:C:C6	2.31	0.65
6:CF:1:MET:HA	6:CF:67:MET:O	1.96	0.65
7:CG:6:ARG:HB2	7:CG:6:ARG:NH1	2.12	0.65
12:CL:2:PRO:O	12:CL:7:LEU:HD23	1.95	0.65
25:D0:36:ILE:HD13	25:D0:58:THR:HG23	1.78	0.65
25:D0:51:VAL:N	25:D0:62:LEU:HD12	2.10	0.65
30:D5:3:LYS:HB2	35:DA:747:U:H5	1.62	0.65
33:D8:49:VAL:HG23	33:D8:53:PRO:CD	2.20	0.65
35:DA:2790:A:H2'	35:DA:2893:G:O2'	1.96	0.65
41:DG:40:ASN:O	41:DG:155:MET:HB2	1.96	0.65
54:DW:12:ILE:HD13	54:DW:17:VAL:HG22	1.78	0.65
2:AB:101:MET:HA	2:AB:108:ILE:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:132:GLY:O	7:AG:136:LYS:HG2	1.96	0.65
8:AH:116:LYS:HA	8:AH:116:LYS:HE3	1.78	0.65
14:AN:26:ARG:HG3	14:AN:39:LEU:HD21	1.78	0.65
20:AT:49:ALA:O	20:AT:53:LEU:HD13	1.97	0.65
30:B5:57:VAL:HG23	30:B5:58:LEU:N	2.12	0.65
35:BA:484:C:H2'	35:BA:485:C:H6	1.60	0.65
35:BA:2302:G:H2'	35:BA:2303:G:H5'	1.78	0.65
35:BA:2801(A):A:O4'	35:BA:2802:G:H2'	1.97	0.65
39:BE:69:LYS:HZ2	39:BE:89:ASP:HA	1.61	0.65
49:BR:85:PRO:O	49:BR:87:TYR:N	2.29	0.65
51:BT:27:THR:OG1	51:BT:28:VAL:N	2.27	0.65
51:BT:28:VAL:HG22	51:BT:46:GLU:CA	2.24	0.65
1:CA:328:C:H4'	1:CA:329:A:H5'	1.78	0.65
1:CA:572:A:H5''	1:CA:917:G:H4'	1.78	0.65
2:CB:22:LYS:HA	2:CB:22:LYS:HZ3	1.62	0.65
2:CB:71:VAL:CG2	2:CB:164:VAL:HG22	2.27	0.65
3:CC:35:GLU:HA	3:CC:38:ARG:NE	2.11	0.65
12:CL:41:THR:HG23	24:CY:7:HIS:HB3	1.77	0.65
22:CW:9:G:N3	22:CW:45:G:H2'	2.12	0.65
35:DA:17:G:H2'	35:DA:18:C:C6	2.31	0.65
35:DA:2801(A):A:H5'	35:DA:2802:G:C8	2.32	0.65
36:DB:28:C:H2'	36:DB:29:A:C8	2.32	0.65
38:DD:65:ILE:HD13	38:DD:65:ILE:O	1.97	0.65
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.27	0.65
40:DF:2:LYS:HB2	40:DF:24:LEU:HD11	1.78	0.65
52:DU:92:ARG:HB3	53:DV:11:GLN:NE2	2.12	0.65
54:DW:78:GLU:OE2	54:DW:99:ARG:HD2	1.97	0.65
1:AA:377:G:OP1	16:AP:3:LYS:HD2	1.97	0.65
1:AA:1349:A:H2'	1:AA:1350:A:O4'	1.96	0.65
2:AB:49:GLU:O	2:AB:52:GLU:HB3	1.96	0.65
3:AC:20:SER:O	14:AN:54:PRO:HG3	1.97	0.65
3:AC:162:GLN:HB2	23:AX:23:A:N6	2.10	0.65
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.27	0.65
35:BA:621:A:H2'	35:BA:622:G:H5'	1.79	0.65
35:BA:1490:A:N7	35:BA:1490:A:OP1	2.29	0.65
37:BC:44:HIS:HB2	37:BC:211:SER:O	1.96	0.65
39:BE:6:GLY:HA2	39:BE:51:PHE:CE2	2.32	0.65
42:BH:52:VAL:C	42:BH:65:HIS:HE1	2.03	0.65
1:CA:4:U:C5'	4:CD:86:LYS:CD	2.71	0.65
1:CA:17:U:C1'	1:CA:1080:A:H1'	2.27	0.65
1:CA:37:U:N3	1:CA:38:G:C8	2.63	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:775:G:O2'	1:CA:776:G:H5'	1.96	0.65
1:CA:1130:A:H1'	1:CA:1146:A:C2	2.32	0.65
1:CA:1399:C:H4'	1:CA:1400:C:C5'	2.26	0.65
2:CB:118:LEU:C	2:CB:120:ALA:H	2.05	0.65
4:CD:170:VAL:HG12	4:CD:174:LEU:HB2	1.79	0.65
14:CN:41:ARG:HE	14:CN:42:ILE:HD11	1.62	0.65
17:CQ:7:THR:CG2	17:CQ:58:GLU:HG2	2.26	0.65
20:CT:49:ALA:O	20:CT:53:LEU:HD13	1.97	0.65
20:CT:53:LEU:H	20:CT:53:LEU:HD12	1.60	0.65
35:DA:833:U:H2'	35:DA:834:C:C6	2.32	0.65
35:DA:1805:U:O2	38:DD:50:THR:HB	1.96	0.65
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.27	0.65
38:DD:186:HIS:CD2	38:DD:188:GLU:H	2.14	0.65
40:DF:65:TRP:CZ2	40:DF:75:HIS:HD2	2.15	0.65
42:DH:109:PHE:C	42:DH:111:HIS:H	2.04	0.65
45:DN:20:GLY:O	45:DN:61:ARG:HG2	1.97	0.65
55:DX:29:TRP:CZ3	55:DX:78:LYS:HB3	2.31	0.65
55:DX:30:VAL:HG21	55:DX:39:ILE:CD1	2.27	0.65
1:AA:373:A:O2'	1:AA:374:A:H5'	1.97	0.65
5:AE:110:LEU:O	5:AE:115:VAL:HB	1.97	0.65
10:AJ:54:PHE:CE1	10:AJ:55:LYS:HE3	2.32	0.65
24:AY:74:SER:CA	24:AY:75:PHE:HD1	2.10	0.65
28:B3:6:VAL:HG12	28:B3:56:VAL:HG12	1.79	0.65
32:B7:43:THR:HG23	32:B7:44:PRO:HD2	1.78	0.65
35:BA:1665:A:O2'	35:BA:1666:G:H5'	1.97	0.65
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.60	0.65
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.62	0.65
42:BH:109:PHE:C	42:BH:111:HIS:H	2.04	0.65
42:BH:158:HIS:CD2	42:BH:170:ARG:HA	2.32	0.65
1:CA:80:G:H3'	1:CA:81:U:C5'	2.27	0.65
1:CA:1434:A:H2'	1:CA:1435:G:O4'	1.97	0.65
19:CS:5:LEU:HD13	19:CS:7:LYS:H	1.60	0.65
19:CS:15:LEU:O	19:CS:19:VAL:HG23	1.97	0.65
20:CT:50:GLU:HB2	20:CT:99:LEU:HD13	1.78	0.65
35:DA:1789:A:OP1	38:DD:222:ARG:HG3	1.97	0.65
36:DB:56:G:H4'	36:DB:57:A:C8	2.32	0.65
57:DZ:30:ASN:HA	57:DZ:89:PHE:HE2	1.62	0.65
57:DZ:56:VAL:HG13	57:DZ:69:THR:O	1.96	0.65
1:AA:1234:C:H1'	1:AA:1364:U:O2	1.96	0.64
2:AB:30:ARG:NH2	2:AB:194:PRO:HB2	2.11	0.64
6:AF:52:ILE:HD13	6:AF:87:ARG:NH1	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:63:TYR:O	6:AF:65:VAL:HG13	1.97	0.64
18:AR:63:GLN:OE1	18:AR:66:LEU:HD23	1.98	0.64
19:AS:11:VAL:HG22	19:AS:12:ASP:N	2.09	0.64
33:B8:27:THR:HG22	47:BP:62:LEU:CD1	2.27	0.64
33:B8:51:ALA:HA	33:B8:54:GLU:OE1	1.97	0.64
35:BA:857:C:H2'	35:BA:857:C:O2	1.96	0.64
37:BC:82:LYS:HZ2	37:BC:86:ALA:HB1	1.61	0.64
38:BD:270:ILE:C	38:BD:271:ILE:HG12	2.22	0.64
42:BH:41:MET:HA	42:BH:41:MET:CE	2.26	0.64
47:BP:100:LEU:N	47:BP:100:LEU:HD22	2.12	0.64
47:BP:105:LEU:HD12	47:BP:105:LEU:N	2.12	0.64
48:BQ:140:ALA:O	48:BQ:141:GLN:HB2	1.97	0.64
52:BU:16:LYS:O	52:BU:20:LEU:HD23	1.97	0.64
1:CA:447:G:H2'	1:CA:485:G:N2	2.11	0.64
1:CA:1143:G:H2'	1:CA:1144:G:C8	2.32	0.64
1:CA:1188:A:H5''	14:CN:58:LYS:HZ1	1.62	0.64
1:CA:1479:C:H2'	1:CA:1480:G:C8	2.32	0.64
5:CE:110:LEU:O	5:CE:115:VAL:HB	1.98	0.64
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.97	0.64
16:CP:73:LEU:H	16:CP:73:LEU:CD1	2.10	0.64
35:DA:648:G:O2'	35:DA:649:G:H5'	1.97	0.64
35:DA:1505:C:C6	35:DA:1506:C:H6	2.15	0.64
35:DA:2305:A:C3'	35:DA:2306:C:H5''	2.27	0.64
35:DA:2792:G:H1	35:DA:2804:C:H42	1.44	0.64
38:DD:154:LYS:C	38:DD:155:LEU:HD12	2.22	0.64
51:DT:27:THR:OG1	51:DT:28:VAL:N	2.30	0.64
56:DY:7:VAL:CG2	56:DY:8:LYS:HZ2	2.10	0.64
57:DZ:96:VAL:HG22	57:DZ:97:GLU:N	2.09	0.64
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.33	0.64
3:AC:7:PRO:O	3:AC:11:ARG:HG2	1.97	0.64
9:AI:43:ALA:HB2	9:AI:74:ILE:HD13	1.78	0.64
18:AR:31:LEU:HD23	18:AR:31:LEU:N	2.13	0.64
20:AT:54:LYS:HA	20:AT:57:ARG:CZ	2.27	0.64
33:B8:25:MET:CG	47:BP:64:LYS:HB3	2.21	0.64
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	1.96	0.64
35:BA:2206:G:H3'	35:BA:2206:G:N3	2.12	0.64
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.77	0.64
40:BF:24:LEU:CB	40:BF:25:PRO:HD3	2.22	0.64
51:BT:57:PHE:O	51:BT:59:THR:N	2.30	0.64
56:BY:50:ARG:HG3	56:BY:55:TYR:O	1.97	0.64
1:CA:59:A:C5'	1:CA:60:A:H5''	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:555:C:H2'	1:CA:556:C:H6	1.61	0.64
1:CA:836:G:C4	1:CA:837:G:N7	2.66	0.64
1:CA:1053:G:O6	1:CA:1199:U:H2'	1.96	0.64
1:CA:1206:G:H4'	3:CC:192:THR:O	1.96	0.64
10:CJ:39:PRO:HB3	10:CJ:70:ARG:HH11	1.63	0.64
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.12	0.64
22:CW:18:G:H22	22:CW:55:U:H3	1.45	0.64
27:D2:45:SER:O	27:D2:46:GLN:NE2	2.29	0.64
33:D8:59:LYS:HB2	33:D8:59:LYS:NZ	2.00	0.64
35:DA:508:G:C4'	35:DA:509:C:OP2	2.41	0.64
35:DA:1441:G:O2'	35:DA:1442:G:H5'	1.97	0.64
35:DA:1550:C:H2'	35:DA:1551:C:H6	1.62	0.64
35:DA:1560:G:H2'	35:DA:1561:G:H8	1.61	0.64
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.65	0.64
47:DP:50:ARG:NH2	47:DP:50:ARG:HG2	2.13	0.64
49:DR:85:PRO:O	49:DR:87:TYR:N	2.31	0.64
54:DW:59:VAL:HG12	54:DW:60:ASN:N	2.12	0.64
7:AG:49:ILE:HA	7:AG:52:GLU:HG2	1.80	0.64
8:AH:84:ARG:O	8:AH:135:CYS:HB2	1.96	0.64
8:AH:103:VAL:HG21	8:AH:109:ILE:C	2.21	0.64
12:AL:7:LEU:HD11	12:AL:12:ARG:HE	1.63	0.64
17:AQ:92:ARG:HG3	17:AQ:95:TYR:HE2	1.63	0.64
28:B3:3:ARG:HB2	28:B3:3:ARG:NH1	2.06	0.64
36:BB:56:G:H4'	36:BB:57:A:C8	2.32	0.64
41:BG:13:GLU:O	41:BG:14:GLU:HB2	1.95	0.64
43:BI:102:SER:CB	43:BI:109:ILE:HB	2.27	0.64
45:BN:58:ASP:OD1	45:BN:124:ALA:HB1	1.98	0.64
57:BZ:149:SER:HB2	57:BZ:173:ALA:HB1	1.78	0.64
1:CA:401:C:OP1	4:CD:73:ARG:NE	2.30	0.64
1:CA:645:C:H5'	1:CA:645:C:C6	2.26	0.64
1:CA:764:C:H2'	1:CA:765:G:C8	2.31	0.64
1:CA:1059:C:O5'	1:CA:1059:C:C6	2.47	0.64
1:CA:1206:G:O2'	1:CA:1207:G:P	2.55	0.64
11:CK:107:SER:C	11:CK:108:ILE:HD12	2.22	0.64
35:DA:2476:A:H2'	35:DA:2476:A:N3	2.12	0.64
41:DG:71:THR:HG22	41:DG:89:GLY:C	2.22	0.64
45:DN:58:ASP:OD1	45:DN:124:ALA:HB1	1.98	0.64
46:DO:87:ILE:HG21	46:DO:91:LEU:HA	1.79	0.64
56:DY:81:LYS:HB3	56:DY:96:ILE:CG2	2.28	0.64
57:DZ:158:PRO:HD2	57:DZ:161:VAL:HG21	1.78	0.64
1:AA:737:A:H2'	1:AA:738:C:H6	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1089:G:O2'	1:AA:1090:U:H5'	1.97	0.64
9:AI:27:THR:OG1	9:AI:32:ASP:HA	1.98	0.64
12:AL:21:VAL:HG12	12:AL:21:VAL:O	1.97	0.64
17:AQ:7:THR:CG2	17:AQ:58:GLU:HG2	2.27	0.64
21:AU:20:LYS:C	21:AU:22:ARG:H	2.06	0.64
24:AY:93:LYS:CB	24:AY:96:LEU:OXT	2.45	0.64
35:BA:1529:G:O6	35:BA:1530:C:N4	2.30	0.64
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	1.97	0.64
41:BG:95:ARG:HB3	41:BG:96:ARG:HD2	1.80	0.64
42:BH:46:GLU:HB2	42:BH:47:GLU:OE2	1.97	0.64
43:BI:82:ARG:O	43:BI:83:ALA:HB2	1.97	0.64
45:BN:13:TRP:O	45:BN:135:PRO:HD2	1.97	0.64
47:BP:50:ARG:HG2	47:BP:50:ARG:NH2	2.12	0.64
56:BY:97:ARG:O	56:BY:97:ARG:CZ	2.46	0.64
1:CA:386:C:H2'	1:CA:387:U:H5'	1.79	0.64
1:CA:644:G:H4'	8:CH:92:ARG:NH2	2.12	0.64
1:CA:1026:G:H2'	1:CA:1027:C:H5'	1.80	0.64
1:CA:1095:U:H5'	1:CA:1109:C:O2	1.96	0.64
1:CA:1112:C:H1'	3:CC:179:ARG:HH11	1.63	0.64
1:CA:1504:G:H1'	1:CA:1505:G:C5	2.31	0.64
2:CB:101:MET:HA	2:CB:108:ILE:HG21	1.78	0.64
7:CG:132:GLY:O	7:CG:136:LYS:HG2	1.97	0.64
16:CP:73:LEU:HD12	16:CP:73:LEU:N	2.11	0.64
35:DA:1171:G:C8	35:DA:1173:G:H1'	2.32	0.64
35:DA:1799:G:H8	38:DD:181:GLU:OE1	1.80	0.64
35:DA:2154:G:H2'	35:DA:2155:G:C8	2.29	0.64
35:DA:2722:G:H2'	35:DA:2723:C:C6	2.33	0.64
41:DG:87:PRO:C	41:DG:88:ILE:HD13	2.22	0.64
47:DP:7:ARG:O	47:DP:10:PRO:HG3	1.97	0.64
54:DW:5:ALA:HB2	54:DW:54:ALA:HB2	1.79	0.64
1:AA:428:G:H5''	4:AD:7:PRO:HB3	1.79	0.64
1:AA:862:C:O2'	1:AA:863:U:H5'	1.98	0.64
1:AA:1206:G:H4'	3:AC:192:THR:O	1.97	0.64
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.79	0.64
6:AF:88:VAL:HG12	6:AF:88:VAL:O	1.98	0.64
9:AI:40:LEU:HD21	9:AI:42:ARG:HB3	1.77	0.64
14:AN:26:ARG:HH11	14:AN:47:LEU:HD21	1.63	0.64
25:B0:36:ILE:HD13	25:B0:58:THR:HG23	1.79	0.64
35:BA:13:A:H61	35:BA:525:U:H3'	1.61	0.64
35:BA:185:U:H4'	35:BA:218:A:H4'	1.79	0.64
35:BA:626:U:O2	47:BP:105:LEU:HG	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1146:C:O2'	35:BA:1147:C:H5'	1.97	0.64
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.12	0.64
35:BA:1779:U:C5	35:BA:1784:A:N7	2.61	0.64
35:BA:1915:U:H3'	35:BA:1916:A:C5'	2.27	0.64
38:BD:8:PRO:HG3	38:BD:14:ARG:HB2	1.78	0.64
38:BD:28:GLU:CD	38:BD:28:GLU:H	2.05	0.64
38:BD:242:ARG:HG2	38:BD:242:ARG:NH1	2.11	0.64
40:BF:65:TRP:CH2	40:BF:73:ALA:O	2.50	0.64
47:BP:7:ARG:N	47:BP:7:ARG:HD2	2.12	0.64
57:BZ:153:SER:HB2	57:BZ:167:PRO:HB2	1.80	0.64
1:CA:8:A:H5'	5:CE:120:THR:O	1.97	0.64
1:CA:728:A:H2'	1:CA:729:A:H8	1.63	0.64
3:CC:41:GLY:O	3:CC:45:LYS:HG3	1.98	0.64
4:CD:132:ARG:HH11	4:CD:132:ARG:HG2	1.61	0.64
7:CG:49:ILE:HA	7:CG:52:GLU:HG2	1.80	0.64
10:CJ:80:LYS:O	10:CJ:84:GLN:HG3	1.96	0.64
11:CK:29:ILE:HA	11:CK:44:SER:HB3	1.80	0.64
12:CL:87:VAL:O	12:CL:89:ASP:N	2.30	0.64
13:CM:78:ILE:HG23	13:CM:92:HIS:CE1	2.33	0.64
20:CT:54:LYS:HZ2	20:CT:54:LYS:HB2	1.63	0.64
27:D2:2:LYS:HA	27:D2:5:GLU:HB3	1.78	0.64
35:DA:1001:A:H2'	35:DA:1002:G:O4'	1.98	0.64
35:DA:2196:C:O2'	35:DA:2197:U:H5'	1.97	0.64
35:DA:2564:A:OP1	35:DA:2648:C:H4'	1.98	0.64
39:DE:55:ASN:HB2	39:DE:72:VAL:CG1	2.27	0.64
51:DT:9:LEU:C	51:DT:11:GLU:N	2.54	0.64
1:AA:304:U:H2'	1:AA:305:G:C8	2.32	0.64
1:AA:723:U:H5''	1:AA:724:G:OP2	1.98	0.64
22:AV:56:C:OP1	22:AV:56:C:H5	1.81	0.64
24:AY:2:PHE:CD2	24:AY:2:PHE:C	2.73	0.64
24:AY:13:PRO:O	24:AY:13:PRO:CD	2.45	0.64
24:AY:38:GLY:C	24:AY:39:LYS:HD3	2.18	0.64
35:BA:89:G:H3'	35:BA:90:U:C5'	2.27	0.64
35:BA:330:A:O2'	35:BA:331:A:H8	1.81	0.64
35:BA:1505:C:H6	35:BA:1506:C:H6	1.45	0.64
35:BA:2256:G:H2'	35:BA:2257:U:H6	1.62	0.64
38:BD:4:LYS:HE3	38:BD:20:ASP:HA	1.80	0.64
38:BD:133:LEU:HD13	38:BD:173:VAL:HG11	1.80	0.64
43:BI:95:LYS:C	43:BI:97:ILE:H	2.05	0.64
51:BT:85:LYS:HZ2	51:BT:85:LYS:C	2.05	0.64
52:BU:92:ARG:HG3	52:BU:94:ASN:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:98:GLU:OE1	53:BV:100:ARG:HG2	1.97	0.64
1:CA:1126:U:H2'	1:CA:1127:G:O4'	1.97	0.64
9:CI:40:LEU:HD21	9:CI:42:ARG:HB3	1.79	0.64
11:CK:99:GLN:CG	11:CK:105:VAL:HG11	2.27	0.64
19:CS:21:GLU:HG3	19:CS:22:LEU:HD22	1.78	0.64
26:D1:62:VAL:HG22	26:D1:63:ALA:N	2.12	0.64
35:DA:528:A:H2	35:DA:2043:C:H5'	1.62	0.64
35:DA:1505:C:H6	35:DA:1506:C:H6	1.45	0.64
35:DA:2668:G:O2'	35:DA:2669:G:H5'	1.97	0.64
38:DD:30:GLU:HG3	38:DD:63:ARG:NH2	2.12	0.64
41:DG:131:TYR:N	41:DG:159:VAL:HG22	2.13	0.64
42:DH:105:LEU:O	42:DH:107:VAL:HG22	1.97	0.64
44:DJ:60:UNK:HA	44:DJ:63:UNK:CB	2.27	0.64
48:DQ:58:PHE:O	48:DQ:58:PHE:CD1	2.50	0.64
52:DU:92:ARG:HG3	52:DU:94:ASN:HB3	1.79	0.64
1:AA:227:G:H2'	1:AA:228:A:C8	2.33	0.64
1:AA:678:U:H2'	1:AA:679:C:C6	2.32	0.64
2:AB:187:LEU:HD13	2:AB:205:ASP:HB3	1.79	0.64
26:B1:8:SER:HB3	26:B1:66:HIS:CD2	2.32	0.64
26:B1:73:LEU:HD13	26:B1:94:LEU:CD2	2.26	0.64
29:B4:25:TYR:CE1	41:BG:5:VAL:HG22	2.32	0.64
33:B8:44:LYS:HD2	33:B8:44:LYS:N	2.12	0.64
35:BA:65:C:H2'	35:BA:66:C:H6	1.61	0.64
35:BA:1532:C:H1'	35:BA:1533:G:N2	2.12	0.64
36:BB:29:A:P	50:BS:32:LEU:HG	2.38	0.64
41:BG:29:TRP:HA	41:BG:29:TRP:HE3	1.62	0.64
41:BG:69:ALA:O	41:BG:90:LEU:HD12	1.97	0.64
41:BG:170:ARG:HH22	41:BG:180:PHE:HD1	1.46	0.64
46:BO:107:ARG:HH22	51:BT:35:LYS:HD2	1.63	0.64
53:BV:2:PHE:HB2	53:BV:42:GLY:N	2.13	0.64
56:BY:81:LYS:HE2	56:BY:97:ARG:HE	1.63	0.64
57:BZ:28:MET:HB3	57:BZ:88:PHE:CB	2.28	0.64
57:BZ:38:TYR:O	57:BZ:38:TYR:CG	2.51	0.64
1:CA:20:U:O2	1:CA:916:G:C2	2.50	0.64
1:CA:626:U:H2'	1:CA:627:G:H8	1.61	0.64
1:CA:757:U:H2'	1:CA:758:G:O4'	1.97	0.64
1:CA:1423:G:O2'	1:CA:1424:C:H5'	1.97	0.64
1:CA:1468:A:H2'	1:CA:1469:G:O4'	1.98	0.64
1:CA:1501:C:H3'	1:CA:1502:A:C5'	2.27	0.64
3:CC:33:LEU:HD11	14:CN:53:LEU:HD23	1.79	0.64
6:CF:23:LYS:O	6:CF:27:GLN:HG2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:84:ARG:O	8:CH:135:CYS:HB2	1.97	0.64
8:CH:91:ARG:HH12	17:CQ:33:GLY:HA3	1.62	0.64
18:CR:47:THR:O	18:CR:82:THR:HA	1.98	0.64
30:D5:50:GLY:O	30:D5:51:TYR:HB2	1.95	0.64
35:DA:631:A:H2'	35:DA:632:A:C8	2.33	0.64
35:DA:922:U:H2'	35:DA:923:C:C6	2.33	0.64
35:DA:2473:U:O2	35:DA:2474:C:C6	2.48	0.64
39:DE:105:THR:O	39:DE:196:VAL:HG23	1.98	0.64
42:DH:30:LYS:HE3	42:DH:81:GLU:HG2	1.80	0.64
56:DY:14:LEU:HD12	56:DY:15:VAL:H	1.63	0.64
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.97	0.64
1:AA:1262:C:H42	1:AA:1273:G:H1	1.46	0.64
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.32	0.64
2:AB:100:GLY:O	2:AB:104:ASN:N	2.21	0.64
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.12	0.64
12:AL:2:PRO:O	12:AL:7:LEU:HD23	1.97	0.64
12:AL:2:PRO:HB2	12:AL:7:LEU:HD21	1.80	0.64
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.13	0.64
19:AS:36:ARG:HB2	19:AS:72:GLY:H	1.62	0.64
19:AS:64:GLU:O	19:AS:66:MET:HG2	1.97	0.64
35:BA:1528(A):A:N7	35:BA:1529:G:C4	2.66	0.64
35:BA:2144:U:O2'	35:BA:2145:C:H2'	1.98	0.64
38:BD:16:MET:HB3	38:BD:207:GLY:HA3	1.80	0.64
1:CA:585:G:OP1	17:CQ:37:LYS:HE2	1.98	0.64
1:CA:1188:A:H5''	14:CN:58:LYS:NZ	2.11	0.64
1:CA:1370:G:H5''	9:CI:12:GLU:HG3	1.80	0.64
3:CC:141:VAL:CG1	3:CC:202:ILE:HD12	2.26	0.64
4:CD:3:ARG:HD3	4:CD:118:ARG:HD2	1.78	0.64
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.24	0.64
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.10	0.64
20:CT:10:LEU:HD22	20:CT:12:ALA:CB	2.28	0.64
32:D7:8:ASN:HD21	32:D7:11:LYS:H	1.43	0.64
35:DA:621:A:H2'	35:DA:622:G:H5'	1.80	0.64
35:DA:816:C:O2'	35:DA:817:C:H5'	1.97	0.64
35:DA:2777:G:H5''	35:DA:2778:A:C5'	2.28	0.64
39:DE:117:MET:HA	39:DE:122:PHE:H	1.63	0.64
40:DF:9:ILE:HG13	40:DF:15:SER:CB	2.18	0.64
42:DH:46:GLU:HB2	42:DH:47:GLU:OE2	1.97	0.64
48:DQ:133:ARG:HG2	48:DQ:134:ARG:N	2.11	0.64
53:DV:38:LEU:HD22	53:DV:52:VAL:HG11	1.78	0.64
56:DY:50:ARG:NE	56:DY:57:GLN:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:82:ARG:HB2	57:DZ:82:ARG:NH1	2.12	0.64
1:AA:428:G:OP2	4:AD:7:PRO:HG2	1.96	0.64
1:AA:1226:C:N4	13:AM:104:ARG:HB2	2.12	0.64
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.27	0.64
4:AD:20:TYR:HA	4:AD:26:CYS:SG	2.38	0.64
5:AE:80:ILE:HG22	8:AH:104:ARG:CZ	2.28	0.64
9:AI:40:LEU:CD2	9:AI:42:ARG:HB3	2.28	0.64
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.62	0.64
39:BE:65:GLY:O	39:BE:67:PHE:N	2.31	0.64
40:BF:37:VAL:HG13	40:BF:184:TYR:HD1	1.62	0.64
42:BH:105:LEU:O	42:BH:107:VAL:HG22	1.97	0.64
43:BI:114:LEU:C	43:BI:116:LEU:H	2.06	0.64
50:BS:13:ARG:HG3	50:BS:14:VAL:N	2.05	0.64
57:BZ:10:ARG:CD	57:BZ:12:GLY:HA2	2.27	0.64
1:CA:240:C:H2'	1:CA:241:C:C6	2.33	0.64
1:CA:378:G:H2'	1:CA:379:C:C6	2.32	0.64
2:CB:196:LEU:CD1	2:CB:197:VAL:HG13	2.27	0.64
10:CJ:49:VAL:O	10:CJ:60:ARG:HB2	1.97	0.64
35:DA:1146:C:O2'	35:DA:1147:C:H5'	1.98	0.64
38:DD:52:ARG:HB2	38:DD:53:PHE:CD2	2.33	0.64
39:DE:77:ILE:HG22	39:DE:78:LEU:CD1	2.28	0.64
41:DG:39:ILE:CG1	41:DG:155:MET:HG3	2.28	0.64
52:DU:92:ARG:O	52:DU:93:LYS:C	2.41	0.64
1:AA:105:G:H2'	1:AA:106:C:C6	2.33	0.64
1:AA:545:C:H5''	4:AD:72:GLU:HG2	1.80	0.64
5:AE:10:MET:CB	5:AE:32:VAL:HG22	2.27	0.64
12:AL:83:ARG:NH2	12:AL:96:HIS:ND1	2.45	0.64
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.13	0.64
35:BA:941:A:H4'	47:BP:35:HIS:CE1	2.33	0.64
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.98	0.64
35:BA:2746:U:H2'	35:BA:2747:G:H5'	1.78	0.64
38:BD:186:HIS:CD2	38:BD:188:GLU:H	2.15	0.64
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.66	0.64
43:BI:61:ARG:O	43:BI:65:ALA:HB3	1.98	0.64
50:BS:61:ASN:C	50:BS:65:VAL:HG23	2.23	0.64
52:BU:92:ARG:O	52:BU:93:LYS:C	2.39	0.64
55:BX:12:VAL:HG22	55:BX:27:THR:O	1.98	0.64
55:BX:30:VAL:HG21	55:BX:39:ILE:CD1	2.27	0.64
56:BY:84:ARG:HH12	56:BY:97:ARG:HB3	1.63	0.64
1:CA:1225:A:H3'	1:CA:1226:C:H6	1.60	0.64
2:CB:140:HIS:HA	2:CB:143:GLU:CG	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:20:SER:O	14:CN:54:PRO:HG3	1.97	0.64
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.80	0.64
12:CL:71:GLY:O	12:CL:99:ARG:NH2	2.31	0.64
13:CM:54:VAL:O	13:CM:57:ARG:HG2	1.97	0.64
14:CN:44:LEU:C	14:CN:44:LEU:HD12	2.22	0.64
29:D4:35:VAL:HG12	29:D4:36:CYS:N	2.13	0.64
33:D8:27:THR:HA	47:DP:62:LEU:HD11	1.80	0.64
51:DT:117:ASP:O	51:DT:121:ILE:HG13	1.98	0.64
53:DV:21:ARG:HB3	53:DV:91:TYR:HB2	1.78	0.64
1:AA:1004:A:N6	1:AA:1034:G:H2'	2.09	0.63
1:AA:1107:C:C2'	1:AA:1108:G:H5''	2.27	0.63
1:AA:1338:G:O2'	1:AA:1339:A:H5'	1.98	0.63
2:AB:140:HIS:HA	2:AB:143:GLU:CG	2.28	0.63
5:AE:103:GLY:H	5:AE:106:PRO:HG2	1.61	0.63
15:AO:10:LYS:HE2	15:AO:10:LYS:HA	1.78	0.63
20:AT:50:GLU:HB2	20:AT:99:LEU:HD13	1.79	0.63
20:AT:58:LYS:O	20:AT:62:LEU:HD12	1.98	0.63
24:AY:57:GLN:CD	35:BA:1913:A:C2	2.76	0.63
27:B2:63:VAL:HA	27:B2:66:GLU:HG3	1.80	0.63
32:B7:10:ARG:O	32:B7:14:LYS:HG2	1.98	0.63
35:BA:744:G:OP1	39:BE:132:HIS:HB3	1.98	0.63
35:BA:1019:U:O2'	35:BA:1021:A:H2	1.81	0.63
35:BA:1530:C:C2'	35:BA:1531:C:H5'	2.28	0.63
35:BA:1917:U:O2'	35:BA:1918:A:H5'	1.98	0.63
35:BA:2722:G:H2'	35:BA:2723:C:C6	2.33	0.63
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.28	0.63
36:BB:49:C:OP1	50:BS:96:GLY:HA3	1.98	0.63
38:BD:108:PRO:HB3	38:BD:143:HIS:HE1	1.61	0.63
44:BJ:74:UNK:C	44:BJ:76:UNK:H	2.09	0.63
52:BU:92:ARG:HB3	53:BV:11:GLN:NE2	2.13	0.63
1:CA:37:U:N1	1:CA:38:G:C8	2.66	0.63
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.13	0.63
1:CA:1090:U:H2'	1:CA:1091:U:C6	2.32	0.63
2:CB:54:THR:HG22	2:CB:58:ILE:HD12	1.80	0.63
18:CR:63:GLN:OE1	18:CR:66:LEU:HD23	1.98	0.63
21:CU:20:LYS:C	21:CU:22:ARG:H	2.06	0.63
22:CW:15:G:C6	22:CW:59:A:H1'	2.33	0.63
32:D7:11:LYS:HE2	35:DA:686:G:H5''	1.80	0.63
35:DA:507:A:C5'	35:DA:508:G:C5'	2.66	0.63
35:DA:719:C:O2'	35:DA:720:C:H5'	1.97	0.63
35:DA:1917:U:O2'	35:DA:1918:A:H5'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2256:G:H2'	35:DA:2257:U:H6	1.63	0.63
35:DA:2292:C:O2'	35:DA:2293:C:H5'	1.98	0.63
38:DD:108:PRO:HB3	38:DD:143:HIS:HE1	1.62	0.63
40:DF:65:TRP:CH2	40:DF:75:HIS:HD2	2.16	0.63
42:DH:8:PRO:O	42:DH:9:ILE:HG12	1.97	0.63
42:DH:98:LEU:N	42:DH:125:VAL:HG11	2.05	0.63
45:DN:18:ALA:HB1	45:DN:21:LYS:CB	2.29	0.63
1:AA:254:G:O2'	1:AA:255:G:H5'	1.97	0.63
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.33	0.63
4:AD:114:ARG:HG3	4:AD:114:ARG:NH1	2.11	0.63
16:AP:75:ARG:HH11	16:AP:75:ARG:HG3	1.62	0.63
24:AY:42:ARG:HH22	24:AY:96:LEU:HB3	1.63	0.63
26:B1:34:THR:HG22	26:B1:36:GLY:H	1.64	0.63
29:B4:6:HIS:HB3	41:BG:67:LYS:CE	2.28	0.63
30:B5:20:ARG:NH1	54:BW:15:ARG:NE	2.45	0.63
35:BA:2192:G:C3'	35:BA:2193:G:H5''	2.28	0.63
39:BE:11:MET:HB2	39:BE:23:VAL:O	1.97	0.63
47:BP:81:GLN:HG2	47:BP:106:LEU:HD12	1.80	0.63
48:BQ:134:ARG:NH1	57:BZ:122:ARG:HD2	2.13	0.63
1:CA:439:A:H2'	1:CA:441:A:H5'	1.80	0.63
3:CC:7:PRO:O	3:CC:11:ARG:HG2	1.97	0.63
3:CC:34:LEU:CB	3:CC:38:ARG:HH21	2.10	0.63
8:CH:77:GLU:HG2	8:CH:78:GLN:H	1.63	0.63
9:CI:40:LEU:CD2	9:CI:42:ARG:HB3	2.28	0.63
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.79	0.63
30:D5:52:TYR:CD1	30:D5:53:ALA:N	2.66	0.63
35:DA:272(J):C:H2'	35:DA:363:G:H22	1.62	0.63
35:DA:868:U:N3	35:DA:869:G:C8	2.67	0.63
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.98	0.63
47:DP:29:LYS:HB3	47:DP:34:GLY:H	1.62	0.63
52:DU:79:PHE:O	52:DU:83:LEU:HD13	1.98	0.63
1:AA:76:C:H42	1:AA:93:G:H1	1.44	0.63
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.33	0.63
2:AB:60:ASP:HB3	2:AB:64:ARG:NH2	2.13	0.63
4:AD:3:ARG:HD3	4:AD:118:ARG:HD2	1.81	0.63
5:AE:135:THR:O	5:AE:138:ALA:HB3	1.98	0.63
13:AM:54:VAL:O	13:AM:57:ARG:HG2	1.99	0.63
18:AR:45:SER:H	18:AR:51:LEU:HG	1.63	0.63
20:AT:29:LYS:O	20:AT:33:ILE:HG13	1.98	0.63
35:BA:252:G:OP2	47:BP:50:ARG:NH1	2.31	0.63
50:BS:49:VAL:CG1	50:BS:76:LYS:HE3	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:29:TRP:CZ3	55:BX:78:LYS:HB3	2.34	0.63
57:BZ:132:ASN:O	57:BZ:134:PRO:HD3	1.99	0.63
1:CA:377:G:OP1	16:CP:3:LYS:HD2	1.98	0.63
1:CA:624:C:H5''	16:CP:10:GLY:O	1.98	0.63
1:CA:1064:G:OP2	1:CA:1386:G:H4'	1.97	0.63
1:CA:1089:G:O2'	1:CA:1090:U:H5'	1.98	0.63
1:CA:1486:G:H2'	1:CA:1487:G:O4'	1.99	0.63
2:CB:187:LEU:HD13	2:CB:205:ASP:HB3	1.79	0.63
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.13	0.63
9:CI:3:GLN:HG2	9:CI:20:ARG:HG2	1.79	0.63
11:CK:101:SER:C	11:CK:103:LEU:H	2.05	0.63
35:DA:144:C:H2'	35:DA:145:G:H8	1.63	0.63
35:DA:941:A:H4'	47:DP:35:HIS:CE1	2.33	0.63
35:DA:1314:C:H5'	35:DA:1314:C:H6	1.64	0.63
35:DA:2136:C:N4	35:DA:2155:G:H1	1.97	0.63
35:DA:2302:G:H2'	35:DA:2303:G:H5'	1.78	0.63
35:DA:2473:U:H3'	35:DA:2475:C:H41	1.63	0.63
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.22	0.63
38:DD:240:ALA:HB1	38:DD:241:PRO:HD2	1.80	0.63
39:DE:30:PRO:HA	39:DE:92:THR:HG22	1.81	0.63
42:DH:17:VAL:HG13	42:DH:24:VAL:CG2	2.28	0.63
42:DH:30:LYS:HE3	42:DH:81:GLU:CG	2.28	0.63
42:DH:127:GLU:HB2	42:DH:128:PRO:HD2	1.80	0.63
45:DN:13:TRP:O	45:DN:135:PRO:HD2	1.98	0.63
47:DP:61:ARG:C	47:DP:62:LEU:HD13	2.24	0.63
47:DP:100:LEU:HD22	47:DP:100:LEU:H	1.63	0.63
57:DZ:150:LEU:H	57:DZ:150:LEU:HD23	1.63	0.63
1:AA:938:A:H4'	7:AG:95:ARG:HH22	1.62	0.63
1:AA:1053:G:O6	1:AA:1199:U:H2'	1.98	0.63
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.24	0.63
22:AW:26:G:N2	22:AW:44:A:H61	1.96	0.63
35:BA:1550:C:H2'	35:BA:1551:C:H6	1.63	0.63
39:BE:52:LEU:HD23	39:BE:75:VAL:HB	1.79	0.63
48:BQ:58:PHE:O	48:BQ:58:PHE:CD1	2.52	0.63
50:BS:14:VAL:HG12	50:BS:15:ARG:N	2.13	0.63
56:BY:17:SER:HB2	56:BY:71:LYS:HE2	1.81	0.63
57:BZ:155:LEU:HD23	57:BZ:155:LEU:N	2.13	0.63
1:CA:1479:C:O2'	1:CA:1480:G:H5'	1.99	0.63
2:CB:44:LEU:N	2:CB:44:LEU:HD22	2.12	0.63
2:CB:142:LEU:HD21	2:CB:146:GLN:HE21	1.62	0.63
3:CC:131:ARG:NH1	5:CE:50:GLU:HG2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:179:ARG:O	3:CC:206:GLU:HG3	1.98	0.63
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.98	0.63
21:CU:6:ARG:HE	21:CU:15:ARG:HH12	1.46	0.63
35:DA:637:A:H2'	47:DP:117:GLU:OE2	1.98	0.63
35:DA:868:U:N3	35:DA:869:G:C5	2.66	0.63
35:DA:923:C:H2'	35:DA:924:C:C6	2.34	0.63
35:DA:1503:U:H2'	35:DA:1504:C:H6	1.64	0.63
36:DB:40:U:H3'	36:DB:41:U:H5''	1.81	0.63
41:DG:103:LEU:HA	41:DG:106:LEU:HD21	1.81	0.63
46:DO:4:PRO:O	46:DO:5:GLN:HB2	1.97	0.63
46:DO:114:ILE:H	46:DO:114:ILE:HD12	1.63	0.63
49:DR:13:HIS:CE1	49:DR:15:SER:HB2	2.34	0.63
51:DT:29:ARG:HG2	51:DT:86:ILE:N	2.12	0.63
1:AA:1118:C:H5'	9:AI:104:ARG:HD3	1.81	0.63
11:AK:111:ASP:HA	18:AR:84:LYS:HG3	1.81	0.63
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.10	0.63
25:B0:51:VAL:HG22	25:B0:81:VAL:HG23	1.79	0.63
35:BA:151:C:O2'	35:BA:152:G:H5'	1.98	0.63
35:BA:272(J):C:H2'	35:BA:363:G:H22	1.62	0.63
35:BA:389:G:H1	47:BP:71:VAL:HG12	1.63	0.63
35:BA:1210:A:H5'	35:BA:1210:A:H8	1.64	0.63
35:BA:1625:C:H2'	35:BA:1626:G:O4'	1.98	0.63
35:BA:2154:G:H2'	35:BA:2155:G:C8	2.30	0.63
35:BA:2292:C:O2'	35:BA:2293:C:H5'	1.97	0.63
35:BA:2345:G:N3	35:BA:2381:C:H2'	2.13	0.63
35:BA:2682:U:C5	39:BE:11:MET:HE2	2.33	0.63
38:BD:33:LEU:HD23	38:BD:33:LEU:C	2.23	0.63
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.78	0.63
42:BH:30:LYS:HE3	42:BH:81:GLU:CG	2.28	0.63
42:BH:30:LYS:HE3	42:BH:81:GLU:HG2	1.79	0.63
47:BP:23:PRO:CB	47:BP:33:ARG:HD2	2.21	0.63
47:BP:30:THR:HG22	47:BP:31:ALA:H	1.63	0.63
50:BS:18:ILE:C	50:BS:20:ARG:H	2.06	0.63
50:BS:19:LYS:HB3	50:BS:20:ARG:HH21	1.64	0.63
51:BT:77:PRO:O	51:BT:78:LEU:HB3	1.98	0.63
1:CA:728:A:H2'	1:CA:729:A:C8	2.33	0.63
1:CA:1221:G:H4'	19:CS:77:THR:CG2	2.24	0.63
2:CB:60:ASP:HB3	2:CB:64:ARG:NH2	2.13	0.63
8:CH:95:VAL:HG11	8:CH:133:LEU:HD12	1.81	0.63
25:D0:36:ILE:HD12	25:D0:37:LEU:N	2.13	0.63
27:D2:38:GLN:HE22	27:D2:44:LEU:HD22	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:27:G:H22	35:DA:512:G:H2'	1.64	0.63
35:DA:271(P):C:O2'	35:DA:271(Q):G:H5'	1.99	0.63
35:DA:587:C:H2'	47:DP:33:ARG:NH2	2.14	0.63
35:DA:1169:G:H1	35:DA:1180:C:H42	1.46	0.63
35:DA:2345:G:N3	35:DA:2381:C:H2'	2.13	0.63
38:DD:199:ALA:C	38:DD:201:HIS:H	2.07	0.63
45:DN:10:GLU:OE2	45:DN:11:PRO:HD2	1.99	0.63
47:DP:13:ASN:C	47:DP:13:ASN:ND2	2.49	0.63
56:DY:28:LYS:HB3	56:DY:38:ILE:H	1.63	0.63
57:DZ:38:TYR:CG	57:DZ:38:TYR:O	2.51	0.63
1:AA:692:U:OP1	11:AK:124:LYS:HE2	1.99	0.63
2:AB:54:THR:HG22	2:AB:58:ILE:HD12	1.80	0.63
11:AK:29:ILE:HA	11:AK:44:SER:HB3	1.80	0.63
12:AL:71:GLY:O	12:AL:99:ARG:NH2	2.31	0.63
20:AT:54:LYS:HB2	20:AT:54:LYS:HZ2	1.62	0.63
21:AU:6:ARG:HE	21:AU:15:ARG:HH12	1.47	0.63
22:AV:51:C:H2'	22:AV:52:G:C1'	2.29	0.63
30:B5:3:LYS:HB2	35:BA:747:U:C5	2.33	0.63
31:B6:15:GLU:O	31:B6:15:GLU:HG2	1.99	0.63
35:BA:674:G:H1'	40:BF:74:ARG:HD3	1.81	0.63
35:BA:719:C:O2'	35:BA:720:C:H5'	1.99	0.63
35:BA:1799:G:H8	38:BD:181:GLU:OE1	1.81	0.63
35:BA:2769:C:H2'	35:BA:2770:G:H8	1.64	0.63
39:BE:55:ASN:HB2	39:BE:72:VAL:CG1	2.28	0.63
47:BP:8:PRO:C	47:BP:10:PRO:HD3	2.23	0.63
50:BS:87:PHE:O	50:BS:88:ASP:HB2	1.96	0.63
51:BT:9:LEU:C	51:BT:11:GLU:N	2.55	0.63
56:BY:28:LYS:O	56:BY:38:ILE:HB	1.98	0.63
56:BY:38:ILE:HD12	56:BY:66:PRO:HA	1.81	0.63
1:CA:936:C:H2'	1:CA:937:A:H8	1.64	0.63
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.63	0.63
2:CB:181:PHE:O	2:CB:183:PRO:HD3	1.98	0.63
4:CD:170:VAL:HG21	4:CD:176:LEU:HB2	1.80	0.63
16:CP:51:VAL:HG12	16:CP:52:ASP:N	2.12	0.63
17:CQ:92:ARG:HG3	17:CQ:95:TYR:HE2	1.62	0.63
19:CS:19:VAL:HG11	19:CS:44:MET:HE2	1.81	0.63
19:CS:29:ARG:HB2	19:CS:48:THR:H	1.63	0.63
30:D5:3:LYS:HB2	35:DA:747:U:C5	2.33	0.63
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	2.29	0.63
33:D8:44:LYS:HD2	33:D8:44:LYS:N	2.13	0.63
39:DE:6:GLY:HA2	39:DE:51:PHE:HE2	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	1.98	0.63
45:DN:19:GLU:OE2	45:DN:20:GLY:N	2.30	0.63
50:DS:61:ASN:C	50:DS:65:VAL:HG23	2.24	0.63
56:DY:38:ILE:HD12	56:DY:66:PRO:HA	1.81	0.63
57:DZ:126:VAL:HG12	57:DZ:163:LEU:HB3	1.81	0.63
57:DZ:166:SER:H	57:DZ:167:PRO:HA	1.64	0.63
1:AA:1116:C:H2'	1:AA:1117:G:O4'	1.98	0.63
5:AE:35:GLY:HA3	5:AE:112:LEU:O	1.99	0.63
27:B2:43:GLN:HB3	27:B2:44:LEU:HD12	1.80	0.63
30:B5:3:LYS:HB2	35:BA:747:U:H5	1.62	0.63
35:BA:782:A:N1	38:BD:226:MET:HE2	2.13	0.63
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.20	0.63
35:BA:1505:C:C6	35:BA:1506:C:H6	2.16	0.63
35:BA:2136:C:N4	35:BA:2155:G:H1	1.97	0.63
36:BB:52:A:N6	50:BS:33:LYS:HB2	2.14	0.63
38:BD:35:LYS:HE3	38:BD:61:LEU:HG	1.81	0.63
48:BQ:21:THR:CG2	48:BQ:101:ARG:HB2	2.29	0.63
1:CA:190:U:H2'	1:CA:191:G:H8	1.62	0.63
1:CA:224:C:H2'	1:CA:225:C:C6	2.33	0.63
1:CA:1123:A:H5'	10:CJ:36:GLY:HA3	1.79	0.63
2:CB:171:ALA:HA	2:CB:174:VAL:HG23	1.79	0.63
5:CE:145:LYS:O	5:CE:149:GLU:HG2	1.98	0.63
14:CN:26:ARG:HH11	14:CN:47:LEU:HD21	1.63	0.63
15:CO:79:ARG:O	15:CO:79:ARG:HD2	1.99	0.63
16:CP:75:ARG:HG3	16:CP:75:ARG:HH11	1.62	0.63
19:CS:64:GLU:O	19:CS:66:MET:HG2	1.99	0.63
22:CV:38:A:H2'	22:CV:39:C:H6	1.64	0.63
22:CV:55:U:O2'	22:CV:56:C:C5	2.50	0.63
33:D8:34:TRP:HA	35:DA:2420:C:OP1	1.98	0.63
35:DA:92:A:N3	35:DA:92:A:H2'	2.13	0.63
35:DA:926:A:H8	35:DA:926:A:H5'	1.63	0.63
35:DA:1011:G:H5''	52:DU:77:SER:OG	1.99	0.63
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.79	0.63
35:DA:2302:G:C2'	35:DA:2303:G:H5'	2.29	0.63
47:DP:81:GLN:HG2	47:DP:106:LEU:HD12	1.79	0.63
47:DP:98:GLU:OE1	47:DP:99:LEU:N	2.32	0.63
57:DZ:121:HIS:HB3	57:DZ:123:ASP:O	1.99	0.63
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.33	0.63
2:AB:7:VAL:O	2:AB:11:LEU:HG	1.99	0.63
2:AB:183:PRO:HA	2:AB:198:ASP:OD1	1.99	0.63
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:30:LYS:HE3	20:AT:33:ILE:HD12	1.81	0.63
35:BA:287:C:H2'	35:BA:288:C:C6	2.34	0.63
35:BA:887:A:H1'	35:BA:889:C:N3	2.14	0.63
35:BA:962:G:O2'	35:BA:963:U:H5'	1.99	0.63
40:BF:9:ILE:HG13	40:BF:15:SER:CB	2.18	0.63
41:BG:131:TYR:HB3	41:BG:159:VAL:CG2	2.29	0.63
43:BI:113:ARG:NH1	43:BI:132:PRO:HB3	2.14	0.63
51:BT:28:VAL:CG1	51:BT:46:GLU:HA	2.28	0.63
1:CA:659:U:C2'	1:CA:660:G:H5'	2.29	0.63
1:CA:685:G:O2'	1:CA:686:U:H5'	1.98	0.63
8:CH:87:SER:HA	8:CH:93:VAL:HG23	1.79	0.63
10:CJ:34:VAL:CG1	10:CJ:35:SER:H	2.11	0.63
12:CL:21:VAL:HG12	12:CL:21:VAL:O	1.99	0.63
12:CL:80:VAL:CG2	12:CL:97:ILE:HG23	2.29	0.63
13:CM:106:ASN:O	13:CM:107:ALA:HB3	1.99	0.63
17:CQ:57:VAL:HB	17:CQ:73:VAL:HG13	1.81	0.63
32:D7:7:PRO:HB2	35:DA:1309:G:H4'	1.80	0.63
35:DA:2114:A:H1'	35:DA:2167:U:O2'	1.98	0.63
35:DA:2144:U:O2'	35:DA:2145:C:H2'	1.98	0.63
35:DA:2512:C:H4'	39:DE:122:PHE:CE2	2.34	0.63
47:DP:7:ARG:HD2	47:DP:7:ARG:H	1.64	0.63
47:DP:47:ASP:HB3	47:DP:48:PRO:HA	1.78	0.63
55:DX:80:ILE:C	55:DX:80:ILE:HD13	2.23	0.63
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.29	0.63
17:AQ:45:HIS:CD2	17:AQ:47:PRO:HD3	2.34	0.63
18:AR:47:THR:O	18:AR:82:THR:HA	1.99	0.63
19:AS:57:HIS:O	19:AS:59:PRO:HD3	1.99	0.63
27:B2:24:LEU:HD11	27:B2:28:LYS:HE2	1.80	0.63
34:B9:18:ARG:HE	34:B9:23:VAL:HG22	1.63	0.63
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.80	0.63
35:BA:2882:A:OP1	49:BR:96:ARG:HD3	1.99	0.63
43:BI:83:ALA:CB	43:BI:88:ILE:HA	2.29	0.63
47:BP:112:LEU:HD23	47:BP:112:LEU:C	2.23	0.63
51:BT:14:TYR:H	51:BT:14:TYR:HD1	1.46	0.63
57:BZ:34:ASN:O	57:BZ:35:ARG:NH1	2.32	0.63
1:CA:233:C:O2'	1:CA:234:C:H5'	1.98	0.63
1:CA:1269:A:OP1	21:CU:24:ARG:HD2	1.98	0.63
6:CF:69:GLU:CD	6:CF:69:GLU:H	2.07	0.63
8:CH:44:PHE:HA	8:CH:79:VAL:CG1	2.28	0.63
12:CL:2:PRO:HB2	12:CL:7:LEU:HD21	1.79	0.63
20:CT:30:LYS:HE3	20:CT:33:ILE:HD12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1453:U:H5'	49:DR:63:ARG:HE	1.63	0.63
35:DA:2473:U:O2'	35:DA:2474:C:C4'	2.47	0.63
35:DA:2580:U:H4'	39:DE:130:GLY:HA3	1.81	0.63
38:DD:4:LYS:HE3	38:DD:20:ASP:HA	1.79	0.63
41:DG:131:TYR:CB	41:DG:159:VAL:HG22	2.29	0.63
48:DQ:134:ARG:NH1	57:DZ:122:ARG:HD2	2.13	0.63
52:DU:29:SER:OG	52:DU:30:LYS:HE2	1.99	0.63
57:DZ:28:MET:HG3	57:DZ:37:VAL:HG13	1.81	0.63
1:AA:272:C:O2'	1:AA:273:A:H5'	1.98	0.62
1:AA:349:A:O2'	1:AA:350:G:H5'	1.99	0.62
8:AH:87:SER:HA	8:AH:93:VAL:HG23	1.80	0.62
9:AI:41:VAL:HG12	9:AI:41:VAL:O	1.99	0.62
12:AL:41:THR:HG23	24:AY:7:HIS:CA	2.28	0.62
23:AX:16:A:O2'	23:AX:17:U:O5'	2.17	0.62
25:B0:36:ILE:HD12	25:B0:37:LEU:N	2.14	0.62
29:B4:6:HIS:HD2	41:BG:66:GLN:HA	1.64	0.62
30:B5:33:CYS:HB3	30:B5:36:CYS:O	1.98	0.62
35:BA:1347:G:H5'	35:BA:1347:G:H8	1.64	0.62
35:BA:2564:A:OP1	35:BA:2648:C:H4'	1.99	0.62
41:BG:40:ASN:O	41:BG:155:MET:HB2	1.98	0.62
45:BN:17:ASP:OD2	45:BN:19:GLU:HG3	1.99	0.62
47:BP:33:ARG:O	47:BP:34:GLY:C	2.41	0.62
52:BU:92:ARG:HD2	52:BU:95:LEU:HD12	1.81	0.62
54:BW:65:LEU:O	54:BW:66:GLU:O	2.16	0.62
54:BW:78:GLU:OE2	54:BW:99:ARG:HD2	1.99	0.62
57:BZ:11:GLU:HB2	57:BZ:13:GLU:CD	2.24	0.62
1:CA:37:U:C5	1:CA:38:G:N7	2.67	0.62
1:CA:1531:A:C2'	1:CA:1532:U:H5''	2.26	0.62
9:CI:41:VAL:O	9:CI:41:VAL:HG12	1.97	0.62
35:DA:673:C:H5''	40:DF:81:PRO:HD2	1.81	0.62
35:DA:2040:C:H2'	35:DA:2041:U:H6	1.64	0.62
35:DA:2192:G:C3'	35:DA:2193:G:H5''	2.28	0.62
35:DA:2491:U:H5'	35:DA:2570:G:C5'	2.23	0.62
35:DA:2734:A:H5'	35:DA:2735:G:OP2	1.99	0.62
35:DA:2801(A):A:O4'	35:DA:2802:G:H2'	1.98	0.62
38:DD:108:PRO:HG2	38:DD:111:LEU:HB2	1.80	0.62
38:DD:147:LEU:HD13	38:DD:155:LEU:HD11	1.81	0.62
43:DI:123:LEU:CD2	43:DI:144:VAL:HG13	2.29	0.62
47:DP:84:ASN:O	47:DP:88:LEU:HD13	1.98	0.62
56:DY:31:LEU:N	56:DY:31:LEU:HD22	2.14	0.62
56:DY:41:GLY:O	56:DY:64:GLU:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:158:G:H2'	1:AA:159:G:H8	1.64	0.62
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.99	0.62
4:AD:153:ARG:NH1	4:AD:181:MET:HE3	2.14	0.62
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.07	0.62
16:AP:73:LEU:HD12	16:AP:73:LEU:N	2.07	0.62
18:AR:58:LEU:HB3	18:AR:62:GLU:HB2	1.81	0.62
28:B3:6:VAL:O	28:B3:34:GLU:HA	2.00	0.62
29:B4:35:VAL:HG12	29:B4:36:CYS:N	2.14	0.62
31:B6:27:LYS:HE3	35:BA:2285:C:C5	2.33	0.62
35:BA:184:C:H2'	35:BA:185:U:C6	2.35	0.62
35:BA:556:G:H2'	35:BA:557:U:C6	2.34	0.62
35:BA:1169:G:H1	35:BA:1180:C:H42	1.47	0.62
35:BA:1718:G:H5'	35:BA:1718:G:C8	2.34	0.62
35:BA:2033:A:H4'	35:BA:2034:U:OP1	1.97	0.62
47:BP:124:LYS:HD3	47:BP:143:GLY:C	2.24	0.62
56:BY:41:GLY:O	56:BY:64:GLU:HB3	1.99	0.62
1:CA:762:C:H2'	1:CA:763:G:C8	2.33	0.62
1:CA:1465:C:C2	1:CA:1466:C:C6	2.87	0.62
4:CD:205:GLU:OE1	5:CE:100:VAL:HG22	1.99	0.62
5:CE:15:ARG:O	5:CE:17:ALA:N	2.31	0.62
12:CL:30:ARG:HB3	12:CL:82:ILE:CG2	2.29	0.62
27:D2:35:LEU:CD1	27:D2:53:LEU:HD12	2.30	0.62
28:D3:50:VAL:O	28:D3:54:VAL:HG23	1.99	0.62
35:DA:303:U:H2'	35:DA:304:G:H8	1.63	0.62
35:DA:507:A:H5''	35:DA:508:G:H5'	1.78	0.62
38:DD:30:GLU:CG	38:DD:63:ARG:NH2	2.62	0.62
38:DD:30:GLU:HG3	38:DD:63:ARG:CZ	2.29	0.62
39:DE:186:GLY:O	39:DE:187:ALA:HB3	1.99	0.62
1:AA:601:C:H2'	1:AA:602:A:H8	1.65	0.62
1:AA:1452:C:H4'	1:AA:1456:G:C4	2.35	0.62
10:AJ:4:ILE:CD1	10:AJ:74:ILE:HB	2.30	0.62
11:AK:18:ARG:HB3	11:AK:33:THR:OG1	1.98	0.62
12:AL:25:LYS:HD3	12:AL:30:ARG:HH22	1.64	0.62
26:B1:53:VAL:O	26:B1:53:VAL:HG13	1.98	0.62
32:B7:10:ARG:HH11	32:B7:14:LYS:HE3	1.62	0.62
33:B8:56:GLU:O	33:B8:56:GLU:HG3	1.97	0.62
35:BA:322:A:H3'	40:BF:169:ASN:ND2	2.13	0.62
35:BA:1001:A:H2'	35:BA:1002:G:O4'	1.98	0.62
35:BA:2114:A:H1'	35:BA:2167:U:O2'	1.98	0.62
35:BA:2302:G:C2'	35:BA:2303:G:H5'	2.29	0.62
35:BA:2341:G:H2'	35:BA:2342:C:C6	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:68:LYS:C	40:BF:70:THR:H	2.07	0.62
41:BG:83:ARG:HD2	41:BG:84:LYS:HZ1	1.64	0.62
50:BS:85:VAL:CG2	50:BS:106:ARG:HG3	2.29	0.62
1:CA:47:C:N3	1:CA:365:U:O2	2.33	0.62
1:CA:272:C:O2'	1:CA:273:A:H5'	1.99	0.62
1:CA:337:C:H2'	1:CA:338:A:H8	1.64	0.62
1:CA:962:C:H2'	1:CA:963:G:C8	2.35	0.62
1:CA:1060:C:O2'	10:CJ:56:HIS:HD2	1.81	0.62
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.98	0.62
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.63	0.62
1:CA:1492:A:O2'	24:CY:9:TYR:HB2	2.00	0.62
1:CA:1505:G:O2'	58:CX:15:A:OP2	2.17	0.62
3:CC:142:MET:HA	3:CC:146:ALA:HB3	1.81	0.62
4:CD:86:LYS:N	4:CD:86:LYS:HE3	2.15	0.62
11:CK:18:ARG:HB3	11:CK:33:THR:OG1	1.98	0.62
12:CL:25:LYS:HD3	12:CL:30:ARG:HH22	1.64	0.62
18:CR:58:LEU:HB3	18:CR:62:GLU:HB2	1.80	0.62
20:CT:58:LYS:O	20:CT:62:LEU:HD12	1.99	0.62
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.28	0.62
39:DE:12:THR:HG22	39:DE:13:ARG:N	2.14	0.62
43:DI:83:ALA:CB	43:DI:88:ILE:HA	2.29	0.62
50:DS:89:ARG:O	50:DS:92:TYR:HB3	1.99	0.62
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.32	0.62
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.34	0.62
1:AA:1112:C:H1'	3:AC:179:ARG:HH11	1.63	0.62
1:AA:1442(B):A:H2'	1:AA:1442(B):A:N3	2.13	0.62
2:AB:102:LEU:HD12	2:AB:102:LEU:N	2.14	0.62
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.65	0.62
4:AD:92:VAL:O	4:AD:96:LEU:HD13	1.98	0.62
4:AD:170:VAL:HG12	4:AD:174:LEU:HB2	1.80	0.62
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.80	0.62
14:AN:44:LEU:C	14:AN:44:LEU:HD12	2.24	0.62
35:BA:330:A:HO2'	35:BA:331:A:H8	1.42	0.62
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.00	0.62
35:BA:1925:C:O2'	35:BA:1926:U:H5'	1.99	0.62
38:BD:31:LYS:HA	38:BD:31:LYS:CE	2.29	0.62
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.29	0.62
40:BF:165:ARG:HH11	40:BF:165:ARG:CB	2.12	0.62
42:BH:17:VAL:HG13	42:BH:24:VAL:CG2	2.28	0.62
48:BQ:43:THR:HG1	48:BQ:46:GLN:HG3	1.63	0.62
1:CA:6:G:O2'	1:CA:298:A:C4'	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:17:U:H1'	1:CA:1080:A:H1'	1.82	0.62
1:CA:428:G:H5''	4:CD:7:PRO:HB3	1.80	0.62
1:CA:814:A:H4'	1:CA:1511:G:H5'	1.80	0.62
1:CA:1000:U:H2'	1:CA:1001:A:C8	2.32	0.62
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.35	0.62
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.81	0.62
5:CE:10:MET:CB	5:CE:32:VAL:HG22	2.29	0.62
9:CI:111:ARG:CG	9:CI:112:LYS:H	2.12	0.62
13:CM:57:ARG:HH22	29:D4:35:VAL:HG23	1.63	0.62
20:CT:38:LYS:HA	20:CT:41:ILE:HG12	1.81	0.62
20:CT:54:LYS:HA	20:CT:57:ARG:CZ	2.30	0.62
22:CV:49:G:H2'	22:CV:50:U:O4'	1.99	0.62
25:D0:40:GLN:HG3	25:D0:42:GLY:O	2.00	0.62
30:D5:57:VAL:HG23	30:D5:58:LEU:N	2.13	0.62
35:DA:528:A:C2	35:DA:2042:A:H2'	2.34	0.62
35:DA:868:U:C4	35:DA:869:G:C5	2.87	0.62
35:DA:1431:U:O2'	35:DA:1432:C:H5'	1.99	0.62
35:DA:1794:U:H2'	35:DA:1795:C:H6	1.64	0.62
47:DP:48:PRO:O	47:DP:50:ARG:N	2.32	0.62
57:DZ:30:ASN:O	57:DZ:32:HIS:N	2.32	0.62
57:DZ:44:PHE:HE2	57:DZ:86:VAL:HG11	1.64	0.62
1:AA:222:U:H2'	1:AA:223:U:H6	1.64	0.62
6:AF:82:ARG:HB2	6:AF:85:VAL:CG2	2.29	0.62
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.82	0.62
10:AJ:51:ARG:H	10:AJ:60:ARG:HB3	1.65	0.62
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.13	0.62
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.34	0.62
22:AV:27:U:H3	22:AV:43:A:H61	1.48	0.62
27:B2:55:ARG:HG2	27:B2:55:ARG:HH21	1.65	0.62
35:BA:30:G:H2'	35:BA:31:C:C6	2.35	0.62
35:BA:146:G:O2'	35:BA:147:U:H5'	1.99	0.62
35:BA:389:G:N1	47:BP:71:VAL:HG12	2.14	0.62
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.34	0.62
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.15	0.62
39:BE:30:PRO:HA	39:BE:92:THR:HG22	1.81	0.62
39:BE:41:LYS:HB2	39:BE:41:LYS:HZ3	1.64	0.62
43:BI:87:LYS:HA	43:BI:122:GLU:HA	1.80	0.62
50:BS:66:ALA:C	50:BS:68:GLN:H	2.08	0.62
1:CA:430:A:OP1	4:CD:9:CYS:HB2	1.99	0.62
1:CA:1051:C:H2'	1:CA:1052:U:C6	2.33	0.62
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1501:C:H3'	1:CA:1502:A:H5''	1.81	0.62
2:CB:168:THR:HG21	2:CB:192:SER:HA	1.82	0.62
2:CB:178:ARG:NH2	8:CH:68:ARG:HH22	1.96	0.62
6:CF:16:GLN:CD	6:CF:16:GLN:H	2.07	0.62
9:CI:16:ARG:HH21	9:CI:64:THR:HG21	1.65	0.62
58:CX:16:A:C5	58:CX:17:U:C5	2.86	0.62
35:DA:674:G:H1'	40:DF:74:ARG:HD3	1.79	0.62
35:DA:887:A:H1'	35:DA:889:C:N3	2.14	0.62
35:DA:2341:G:H2'	35:DA:2342:C:C6	2.35	0.62
35:DA:2472:G:C5'	35:DA:2473:U:H4'	2.28	0.62
37:DC:43:VAL:HA	37:DC:212:VAL:CB	2.30	0.62
42:DH:20:ALA:HB3	42:DH:23:ARG:HG3	1.81	0.62
42:DH:86:GLU:HA	42:DH:132:ARG:CB	2.30	0.62
47:DP:16:ARG:HD3	47:DP:18:ARG:N	2.15	0.62
47:DP:50:ARG:HG2	47:DP:50:ARG:HH21	1.65	0.62
55:DX:12:VAL:HG22	55:DX:27:THR:O	2.00	0.62
57:DZ:38:TYR:O	57:DZ:38:TYR:CD1	2.52	0.62
1:AA:1004:A:H5''	1:AA:1025:U:N3	2.13	0.62
1:AA:1005:A:N6	1:AA:1024:G:H4'	2.14	0.62
2:AB:114:ARG:O	2:AB:114:ARG:HD3	1.98	0.62
2:AB:118:LEU:C	2:AB:120:ALA:H	2.06	0.62
3:AC:41:GLY:O	3:AC:45:LYS:HG3	1.98	0.62
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB3	1.80	0.62
12:AL:87:VAL:O	12:AL:89:ASP:N	2.32	0.62
19:AS:22:LEU:HA	19:AS:27:GLU:OE2	2.00	0.62
20:AT:13:LEU:HD12	20:AT:14:LYS:N	2.14	0.62
29:B4:6:HIS:CG	41:BG:67:LYS:HD2	2.34	0.62
30:B5:2:ALA:HA	35:BA:2015:A:C1'	2.29	0.62
31:B6:11:LEU:HD13	31:B6:12:GLU:N	2.15	0.62
35:BA:661:C:H5''	47:BP:18:ARG:HD3	1.82	0.62
35:BA:1215:G:O2'	35:BA:1216:G:H5'	2.00	0.62
35:BA:1503:U:H2'	35:BA:1504:C:H6	1.64	0.62
35:BA:2091:U:C3'	35:BA:2092:U:H5''	2.26	0.62
41:BG:63:ILE:CD1	41:BG:144:ILE:HD11	2.27	0.62
42:BH:137:ASP:HB2	42:BH:140:LYS:HE2	1.81	0.62
43:BI:123:LEU:CD2	43:BI:144:VAL:HG13	2.29	0.62
55:BX:44:GLU:CG	55:BX:51:VAL:HG23	2.30	0.62
1:CA:303:A:OP1	12:CL:14:LYS:HE3	1.99	0.62
1:CA:639:G:H2'	1:CA:640:A:C8	2.34	0.62
1:CA:1250:A:H5'	9:CI:67:GLY:HA2	1.82	0.62
2:CB:30:ARG:HH21	2:CB:194:PRO:HB2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:80:VAL:HG21	12:CL:97:ILE:HG23	1.82	0.62
25:D0:36:ILE:HG23	35:DA:2354:G:O2'	1.98	0.62
29:D4:56:VAL:HG13	29:D4:57:GLU:N	2.13	0.62
35:DA:868:U:C2	35:DA:869:G:C8	2.87	0.62
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.30	0.62
35:DA:1188:U:H4'	53:DV:79:VAL:HG22	1.82	0.62
35:DA:1639:U:H2'	35:DA:1640:C:H5''	1.81	0.62
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.34	0.62
35:DA:2476:A:H2	35:DA:2477:C:C6	2.18	0.62
35:DA:2665:A:H2'	35:DA:2666:C:H5'	1.80	0.62
41:DG:107:LEU:HD13	41:DG:177:GLY:HA3	1.81	0.62
42:DH:137:ASP:HB2	42:DH:140:LYS:HE2	1.81	0.62
47:DP:75:ILE:HD12	47:DP:75:ILE:H	1.63	0.62
47:DP:84:ASN:ND2	47:DP:115:LEU:HG	2.15	0.62
47:DP:105:LEU:H	47:DP:105:LEU:HD12	1.63	0.62
51:DT:88:ILE:HG22	51:DT:89:VAL:HG13	1.82	0.62
1:AA:378:G:H2'	1:AA:379:C:C6	2.35	0.62
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.35	0.62
8:AH:44:PHE:HA	8:AH:79:VAL:CG1	2.29	0.62
12:AL:80:VAL:CG2	12:AL:97:ILE:HG23	2.30	0.62
15:AO:37:ASN:N	15:AO:37:ASN:HD22	1.96	0.62
18:AR:19:LYS:HG3	18:AR:20:ALA:N	2.12	0.62
26:B1:52:ARG:HH11	26:B1:57:GLU:N	1.97	0.62
33:B8:51:ALA:C	33:B8:53:PRO:HD2	2.25	0.62
33:B8:52:LYS:HE2	35:BA:834:C:H4'	1.81	0.62
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.33	0.62
35:BA:2314:C:H5'	41:BG:38:VAL:HG11	1.81	0.62
35:BA:2579:C:O2'	39:BE:131:ALA:HB3	1.99	0.62
35:BA:2839:G:H5'	49:BR:46:GLY:HA2	1.81	0.62
37:BC:46:LYS:HB2	37:BC:46:LYS:NZ	2.15	0.62
38:BD:147:LEU:CD1	38:BD:155:LEU:HD11	2.30	0.62
39:BE:108:SER:HB3	39:BE:165:VAL:HG21	1.82	0.62
40:BF:107:LYS:HD2	40:BF:205:ARG:O	1.99	0.62
40:BF:203:GLN:O	40:BF:206:ILE:HG12	1.98	0.62
41:BG:27:ASN:ND2	41:BG:28:VAL:N	2.46	0.62
47:BP:50:ARG:HG2	47:BP:50:ARG:HH21	1.63	0.62
56:BY:10:GLY:CA	56:BY:27:VAL:HG13	2.29	0.62
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.64	0.62
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.98	0.62
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.13	0.62
15:CO:70:LEU:O	15:CO:70:LEU:HD23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:45:SER:H	18:CR:51:LEU:HG	1.64	0.62
18:CR:47:THR:HG22	18:CR:85:LEU:N	2.14	0.62
26:D1:64:ALA:HA	26:D1:67:ILE:HD11	1.82	0.62
35:DA:876:C:H2'	35:DA:877:U:O4'	1.99	0.62
35:DA:1718:G:H5'	35:DA:1718:G:C8	2.35	0.62
40:DF:162:LEU:H	40:DF:162:LEU:HD22	1.63	0.62
43:DI:82:ARG:O	43:DI:83:ALA:HB2	1.98	0.62
57:DZ:21:ALA:O	57:DZ:23:LYS:HE2	1.99	0.62
1:AA:586:C:H1'	1:AA:878:G:O2'	2.00	0.62
1:AA:601:C:H2'	1:AA:602:A:C8	2.35	0.62
1:AA:1296:C:H5'	1:AA:1297:C:OP2	2.00	0.62
1:AA:1502:A:H2	1:AA:1505:G:H1	1.47	0.62
2:AB:30:ARG:HH21	2:AB:194:PRO:HB2	1.65	0.62
2:AB:71:VAL:CG2	2:AB:164:VAL:HG22	2.28	0.62
3:AC:149:ALA:HA	3:AC:201:TYR:O	2.00	0.62
9:AI:16:ARG:HH21	9:AI:64:THR:HG21	1.65	0.62
14:AN:41:ARG:HE	14:AN:42:ILE:HD11	1.63	0.62
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.97	0.62
20:AT:38:LYS:HA	20:AT:41:ILE:HG12	1.82	0.62
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.31	0.62
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.35	0.62
35:BA:2665:A:H2'	35:BA:2666:C:H5'	1.81	0.62
38:BD:27:THR:CG2	38:BD:83:GLU:HB3	2.29	0.62
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.65	0.62
39:BE:51:PHE:H	39:BE:74:PRO:HB2	1.65	0.62
43:BI:5:LEU:O	43:BI:6:LEU:HD23	2.00	0.62
47:BP:61:ARG:C	47:BP:62:LEU:HD13	2.24	0.62
1:CA:345:C:OP1	51:DT:41:ARG:HD3	2.00	0.62
1:CA:1005:A:N6	1:CA:1024:G:H4'	2.15	0.62
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.00	0.62
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB3	1.80	0.62
12:CL:83:ARG:NH2	12:CL:96:HIS:ND1	2.47	0.62
22:CV:55:U:H2'	22:CV:56:C:C5	2.34	0.62
33:D8:2:PRO:O	33:D8:3:LYS:HB3	2.00	0.62
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.35	0.62
35:DA:2758:A:C5	42:DH:67:LEU:HD21	2.34	0.62
35:DA:2886:G:H2'	35:DA:2887:U:H6	1.64	0.62
40:DF:22:ALA:HB1	40:DF:26:ALA:CB	2.29	0.62
40:DF:37:VAL:HG13	40:DF:184:TYR:HD1	1.64	0.62
42:DH:41:MET:HA	42:DH:41:MET:CE	2.26	0.62
47:DP:81:GLN:HG2	47:DP:106:LEU:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:55:VAL:HG12	48:DQ:64:ILE:HD12	1.82	0.62
51:DT:78:LEU:C	51:DT:79:HIS:ND1	2.57	0.62
56:DY:97:ARG:HH22	56:DY:98:VAL:HB	1.65	0.62
1:AA:256:U:H5'	17:AQ:17:LYS:HZ2	1.65	0.62
1:AA:957:U:H2'	1:AA:959:A:OP2	2.00	0.62
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.35	0.62
5:AE:5:ASP:HA	5:AE:63:ARG:NH1	2.15	0.62
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.82	0.62
8:AH:77:GLU:HG2	8:AH:78:GLN:H	1.63	0.62
35:BA:1019:U:O2'	35:BA:1021:A:C2	2.53	0.62
38:BD:52:ARG:HB2	38:BD:53:PHE:CD2	2.33	0.62
38:BD:125:ILE:HD12	38:BD:137:PRO:CD	2.30	0.62
41:BG:25:TYR:CD2	41:BG:31:VAL:HG22	2.35	0.62
42:BH:127:GLU:HB2	42:BH:128:PRO:HD2	1.80	0.62
50:BS:61:ASN:H	50:BS:65:VAL:CG2	2.13	0.62
53:BV:21:ARG:HB3	53:BV:91:TYR:HB2	1.80	0.62
56:BY:81:LYS:HZ3	56:BY:97:ARG:HH21	1.48	0.62
1:CA:189(E):U:O2'	1:CA:189(F):U:H5'	1.98	0.62
1:CA:421:U:O4	3:CC:127:ARG:HD3	2.00	0.62
1:CA:1422:G:H4'	46:DO:49:ARG:NH2	2.15	0.62
4:CD:142:PRO:HA	4:CD:185:PHE:HD2	1.64	0.62
12:CL:29:PHE:HE1	12:CL:83:ARG:HG3	1.65	0.62
14:CN:33:VAL:HG12	14:CN:40:CYS:CB	2.30	0.62
26:D1:64:ALA:HA	26:D1:67:ILE:CG1	2.29	0.62
35:DA:2319:G:N3	35:DA:2319:G:O2'	2.29	0.62
35:DA:2320:A:N3	35:DA:2320:A:C2'	2.63	0.62
35:DA:2893:G:H5'	35:DA:2894:G:C5'	2.30	0.62
43:DI:82:ARG:CB	43:DI:145:VAL:N	2.62	0.62
47:DP:146:VAL:HG22	47:DP:147:LEU:N	2.09	0.62
56:DY:81:LYS:HE2	56:DY:97:ARG:HE	1.65	0.62
1:AA:545:C:O2'	1:AA:546:G:H5'	2.00	0.62
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.00	0.62
1:AA:1226:C:H4'	19:AS:80:TYR:CZ	2.35	0.62
2:AB:101:MET:HB2	2:AB:102:LEU:HD12	1.82	0.62
3:AC:142:MET:HA	3:AC:146:ALA:HB3	1.81	0.62
4:AD:105:VAL:HG21	4:AD:126:ILE:HG12	1.81	0.62
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.82	0.62
18:AR:33:ASP:O	18:AR:40:LEU:HD11	2.00	0.62
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.35	0.62
35:BA:2167:U:H2'	35:BA:2168:G:C8	2.35	0.62
35:BA:2476:A:H2	35:BA:2477:C:C6	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2580:U:H4'	39:BE:130:GLY:HA3	1.80	0.62
36:BB:30:C:OP2	50:BS:32:LEU:HD11	1.99	0.62
42:BH:20:ALA:HB3	42:BH:23:ARG:HG3	1.82	0.62
52:BU:104:GLN:H	52:BU:104:GLN:CD	2.08	0.62
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.15	0.62
2:CB:183:PRO:HA	2:CB:198:ASP:OD1	1.99	0.62
4:CD:20:TYR:HA	4:CD:26:CYS:SG	2.40	0.62
6:CF:18:GLN:O	6:CF:21:LEU:HB2	2.00	0.62
9:CI:43:ALA:C	9:CI:45:ALA:H	2.07	0.62
15:CO:8:LYS:O	15:CO:12:ILE:HG13	2.00	0.62
32:D7:10:ARG:O	32:D7:14:LYS:HG2	2.00	0.62
33:D8:50:LEU:O	33:D8:51:ALA:HB2	2.00	0.62
35:DA:1478:G:O2'	35:DA:1479:G:H5'	2.00	0.62
35:DA:1625:C:H2'	35:DA:1626:G:O4'	2.00	0.62
35:DA:2305:A:H5''	41:DG:156:ASP:OD1	2.00	0.62
37:DC:59:ARG:H	37:DC:59:ARG:CD	2.04	0.62
38:DD:34:VAL:O	38:DD:64:ILE:HG22	2.00	0.62
38:DD:267:SER:O	38:DD:269:PHE:N	2.33	0.62
39:DE:52:LEU:HD23	39:DE:75:VAL:HB	1.81	0.62
39:DE:65:GLY:HA2	39:DE:70:ALA:CB	2.29	0.62
39:DE:108:SER:HB3	39:DE:165:VAL:HG21	1.81	0.62
41:DG:41:GLN:HA	41:DG:155:MET:CB	2.30	0.62
41:DG:105:LYS:CE	41:DG:142:PRO:HG2	2.30	0.62
51:DT:28:VAL:CG1	51:DT:46:GLU:HA	2.30	0.62
2:AB:70:PHE:O	2:AB:92:TYR:HA	2.00	0.61
4:AD:129:ASN:N	4:AD:129:ASN:HD22	1.98	0.61
4:AD:170:VAL:HG21	4:AD:176:LEU:HB2	1.81	0.61
13:AM:70:LEU:O	13:AM:74:VAL:HG23	2.00	0.61
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.00	0.61
18:AR:47:THR:HG22	18:AR:85:LEU:N	2.14	0.61
22:AV:40:C:H2'	22:AV:41:C:H6	1.64	0.61
24:AY:82:GLN:CG	24:AY:83:LEU:N	2.63	0.61
25:B0:72:ARG:O	25:B0:75:LEU:N	2.29	0.61
35:BA:2665:A:C2'	35:BA:2666:C:H5'	2.30	0.61
38:BD:26:LYS:O	38:BD:27:THR:HG22	1.99	0.61
38:BD:108:PRO:HG2	38:BD:111:LEU:HB2	1.82	0.61
46:BO:18:LYS:HD2	46:BO:45:GLU:OE1	1.99	0.61
55:BX:80:ILE:HD13	55:BX:80:ILE:O	1.98	0.61
56:BY:99:CYS:O	56:BY:100:ALA:HB2	2.00	0.61
2:CB:7:VAL:O	2:CB:11:LEU:HG	2.00	0.61
5:CE:33:VAL:HG11	5:CE:109:ILE:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:81:GLY:O	58:CX:13:A:C5'	2.48	0.61
20:CT:51:GLU:HA	20:CT:54:LYS:HB3	1.82	0.61
22:CV:52:G:HO2'	22:CV:53:G:H5'	1.65	0.61
35:DA:543:C:O2'	35:DA:547:A:H8	1.70	0.61
35:DA:1827:C:O2'	35:DA:1828:G:H5'	1.99	0.61
35:DA:2033:A:H4'	35:DA:2034:U:OP1	1.99	0.61
35:DA:2143:C:H2'	35:DA:2144:U:C6	2.35	0.61
35:DA:2682:U:C5	39:DE:11:MET:HE2	2.34	0.61
40:DF:53:THR:HG23	40:DF:56:GLU:OE2	2.00	0.61
41:DG:128:ARG:C	41:DG:130:ASN:N	2.55	0.61
42:DH:12:PRO:CB	42:DH:15:VAL:HG21	2.24	0.61
42:DH:27:LYS:HG2	42:DH:28:GLY:N	2.15	0.61
43:DI:86:THR:O	43:DI:87:LYS:HG3	2.00	0.61
43:DI:87:LYS:HA	43:DI:122:GLU:HA	1.81	0.61
47:DP:112:LEU:HD23	47:DP:112:LEU:C	2.25	0.61
52:DU:86:ALA:HB1	52:DU:88:ILE:HG23	1.82	0.61
52:DU:91:ASP:O	52:DU:92:ARG:HG2	2.00	0.61
55:DX:44:GLU:CG	55:DX:51:VAL:HG23	2.30	0.61
1:AA:639:G:H2'	1:AA:640:A:C8	2.34	0.61
1:AA:1306:A:H1'	1:AA:1332:A:C2	2.35	0.61
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.82	0.61
2:AB:181:PHE:O	2:AB:183:PRO:HD3	1.99	0.61
4:AD:30:LYS:C	4:AD:32:ALA:N	2.58	0.61
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.99	0.61
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.82	0.61
13:AM:106:ASN:O	13:AM:107:ALA:HB3	1.99	0.61
17:AQ:57:VAL:HB	17:AQ:73:VAL:HG13	1.81	0.61
18:AR:83:GLU:N	18:AR:83:GLU:OE1	2.33	0.61
24:AY:64:TYR:CD1	24:AY:92:ILE:CG2	2.83	0.61
25:B0:23:VAL:HG21	35:BA:857:C:H4'	1.80	0.61
35:BA:923:C:H2'	35:BA:924:C:C6	2.35	0.61
35:BA:1114:G:C2'	35:BA:1115:G:H5''	2.29	0.61
35:BA:1450(A):C:H2'	35:BA:1451:C:C6	2.36	0.61
35:BA:1639:U:H2'	35:BA:1640:C:H5''	1.80	0.61
38:BD:30:GLU:CG	38:BD:63:ARG:NH2	2.63	0.61
45:BN:19:GLU:OE2	45:BN:20:GLY:N	2.33	0.61
47:BP:40:SER:C	47:BP:41:ARG:CZ	2.72	0.61
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CE1	2.35	0.61
48:BQ:137:TYR:OH	57:BZ:81:ARG:NH2	2.33	0.61
52:BU:83:LEU:H	52:BU:83:LEU:HD12	1.63	0.61
56:BY:8:LYS:HE2	56:BY:72:VAL:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:23:ARG:O	56:BY:24:VAL:O	2.17	0.61
56:BY:28:LYS:HB3	56:BY:38:ILE:H	1.63	0.61
56:BY:50:ARG:NE	56:BY:57:GLN:O	2.33	0.61
1:CA:304:U:H2'	1:CA:305:G:C8	2.35	0.61
2:CB:70:PHE:O	2:CB:92:TYR:HA	2.01	0.61
3:CC:30:ARG:O	3:CC:34:LEU:HG	2.00	0.61
7:CG:79:ARG:HB2	7:CG:84:ASN:HD21	1.65	0.61
8:CH:96:GLY:O	8:CH:130:GLY:HA3	2.00	0.61
24:CY:1:GLY:HA3	35:DA:1914:C:H1'	1.81	0.61
26:D1:52:ARG:O	26:D1:56:GLN:O	2.19	0.61
35:DA:30:G:H2'	35:DA:31:C:C6	2.35	0.61
35:DA:2334:G:H5'	50:DS:13:ARG:HD3	1.82	0.61
35:DA:2746:U:H2'	35:DA:2747:G:H5'	1.82	0.61
40:DF:68:LYS:C	40:DF:70:THR:H	2.07	0.61
41:DG:70:VAL:O	41:DG:70:VAL:HG13	2.00	0.61
41:DG:131:TYR:HB3	41:DG:159:VAL:CG2	2.30	0.61
50:DS:19:LYS:HB3	50:DS:20:ARG:HH21	1.65	0.61
51:DT:78:LEU:O	51:DT:79:HIS:ND1	2.34	0.61
52:DU:74:LEU:HD12	52:DU:74:LEU:N	2.13	0.61
57:DZ:10:ARG:NH2	57:DZ:26:GLY:H	1.98	0.61
2:AB:21:ARG:NH2	2:AB:38:GLY:HA3	2.16	0.61
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.00	0.61
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.29	0.61
13:AM:78:ILE:HG23	13:AM:92:HIS:CE1	2.34	0.61
26:B1:29:GLY:O	26:B1:31:GLY:N	2.32	0.61
39:BE:111:ARG:HB2	39:BE:160:TYR:O	2.00	0.61
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	2.15	0.61
47:BP:16:ARG:C	47:BP:16:ARG:HD3	2.26	0.61
56:BY:79:CYS:O	56:BY:80:GLY:C	2.43	0.61
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.00	0.61
5:CE:40:ARG:HB3	5:CE:66:MET:HE3	1.82	0.61
6:CF:40:VAL:HG22	6:CF:40:VAL:O	1.99	0.61
8:CH:29:SER:HB3	8:CH:32:LYS:CG	2.31	0.61
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.34	0.61
19:CS:22:LEU:HA	19:CS:27:GLU:OE2	2.00	0.61
31:D6:27:LYS:HE3	35:DA:2285:C:C5	2.34	0.61
33:D8:23:VAL:CG1	33:D8:46:ARG:HB3	2.29	0.61
35:DA:17:G:H4'	52:DU:25:TRP:CZ3	2.35	0.61
35:DA:363(F):A:H5''	35:DA:364:C:OP1	2.01	0.61
35:DA:1921:G:H2'	35:DA:1922:G:H8	1.64	0.61
35:DA:2665:A:C2'	35:DA:2666:C:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:165:ARG:HH11	40:DF:165:ARG:CB	2.13	0.61
44:DJ:74:UNK:C	44:DJ:76:UNK:H	2.13	0.61
47:DP:105:LEU:HD12	47:DP:105:LEU:N	2.15	0.61
51:DT:2:ASN:O	51:DT:4:GLY:N	2.33	0.61
57:DZ:75:ASN:O	57:DZ:84:GLU:HG2	2.00	0.61
1:AA:1130:A:H61	1:AA:1143:G:H21	1.48	0.61
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.35	0.61
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.35	0.61
5:AE:6:PHE:HB3	5:AE:35:GLY:O	2.00	0.61
7:AG:80:VAL:HG12	7:AG:81:GLY:N	2.12	0.61
9:AI:53:VAL:HG23	9:AI:54:ASP:N	2.16	0.61
9:AI:113:LYS:HD2	9:AI:113:LYS:N	2.15	0.61
17:AQ:65:ILE:HD12	17:AQ:65:ILE:H	1.64	0.61
20:AT:43:LEU:HD13	20:AT:51:GLU:HG3	1.81	0.61
22:AV:38:A:H2'	22:AV:39:C:O4'	2.00	0.61
24:AY:64:TYR:CE1	24:AY:92:ILE:CG2	2.83	0.61
34:B9:6:SER:HB2	35:BA:2466:C:H5''	1.82	0.61
35:BA:922:U:H2'	35:BA:923:C:C6	2.34	0.61
35:BA:1449:A:H5'	35:BA:1450:G:OP2	2.01	0.61
35:BA:1528(A):A:N7	35:BA:1529:G:N9	2.49	0.61
35:BA:2476:A:H2'	35:BA:2476:A:N3	2.14	0.61
35:BA:2777:G:H5''	35:BA:2778:A:C5'	2.31	0.61
35:BA:2808:U:O2'	35:BA:2809:A:H5'	1.99	0.61
38:BD:125:ILE:HD13	38:BD:136:ILE:HG23	1.82	0.61
43:BI:67:ARG:HG2	43:BI:70:GLU:OE2	1.99	0.61
45:BN:10:GLU:OE2	45:BN:11:PRO:HD2	2.00	0.61
47:BP:17:LYS:O	47:BP:19:VAL:HG22	1.99	0.61
56:BY:27:VAL:HG12	56:BY:29:GLU:OE1	2.01	0.61
57:BZ:150:LEU:CG	57:BZ:171:ILE:HD11	2.30	0.61
1:CA:401:C:P	4:CD:73:ARG:HE	2.23	0.61
1:CA:518:C:H2'	1:CA:530:G:C8	2.35	0.61
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.36	0.61
1:CA:1483:A:H1'	35:DA:1948:G:H1'	1.82	0.61
5:CE:5:ASP:HA	5:CE:63:ARG:NH1	2.15	0.61
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.00	0.61
8:CH:116:LYS:HE3	8:CH:116:LYS:HA	1.81	0.61
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.00	0.61
22:CW:17:C:H5''	22:CW:17(A):U:OP2	2.00	0.61
29:D4:55:ARG:HD3	29:D4:56:VAL:N	2.15	0.61
31:D6:11:LEU:HD13	31:D6:12:GLU:N	2.15	0.61
35:DA:833:U:H5''	47:DP:48:PRO:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1582:C:H2'	35:DA:1583:A:H8	1.65	0.61
38:DD:31:LYS:HA	38:DD:31:LYS:CE	2.30	0.61
44:DJ:118:UNK:O	44:DJ:120:UNK:N	2.33	0.61
47:DP:124:LYS:HD3	47:DP:143:GLY:C	2.25	0.61
50:DS:66:ALA:C	50:DS:68:GLN:H	2.08	0.61
57:DZ:10:ARG:O	57:DZ:36:LYS:HG3	2.00	0.61
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.35	0.61
1:AA:1187:G:H4'	9:AI:111:ARG:NH1	2.16	0.61
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.17	0.61
2:AB:195:ASP:O	8:AH:74:PRO:HG3	1.99	0.61
7:AG:84:ASN:ND2	22:AW:33:U:H5''	2.15	0.61
8:AH:91:ARG:HH11	8:AH:91:ARG:CG	2.13	0.61
10:AJ:50:ILE:HG22	10:AJ:60:ARG:HD3	1.80	0.61
16:AP:51:VAL:CG1	16:AP:52:ASP:N	2.63	0.61
19:AS:44:MET:HA	19:AS:47:HIS:HD2	1.65	0.61
29:B4:5:ILE:C	41:BG:67:LYS:HZ1	2.08	0.61
32:B7:11:LYS:HE2	35:BA:686:G:H5''	1.83	0.61
35:BA:528:A:H2	35:BA:2043:C:C5'	2.14	0.61
35:BA:607:U:H3	35:BA:621:A:H2	1.46	0.61
35:BA:1188:U:H4'	53:BV:79:VAL:HG22	1.82	0.61
38:BD:30:GLU:HG3	38:BD:63:ARG:CZ	2.30	0.61
38:BD:199:ALA:C	38:BD:201:HIS:H	2.09	0.61
40:BF:2:LYS:HB2	40:BF:24:LEU:HD11	1.81	0.61
40:BF:2:LYS:HB2	40:BF:24:LEU:CD1	2.30	0.61
42:BH:156:ALA:O	42:BH:157:TYR:C	2.42	0.61
49:BR:45:ARG:O	49:BR:48:VAL:HG12	2.00	0.61
56:BY:7:VAL:CB	56:BY:8:LYS:NZ	2.64	0.61
1:CA:240:C:H2'	1:CA:241:C:H6	1.64	0.61
1:CA:723:U:H5''	1:CA:724:G:OP2	2.01	0.61
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.30	0.61
11:CK:99:GLN:HG2	11:CK:105:VAL:CG1	2.30	0.61
26:D1:64:ALA:HA	26:D1:67:ILE:CD1	2.31	0.61
33:D8:50:LEU:HD12	33:D8:54:GLU:OE2	2.01	0.61
35:DA:557:U:H2'	35:DA:558:G:C8	2.33	0.61
35:DA:576:U:H2'	35:DA:577:G:C8	2.35	0.61
35:DA:1836:C:O2'	35:DA:1837:C:H5'	1.99	0.61
40:DF:82:ILE:O	40:DF:82:ILE:HG13	2.00	0.61
41:DG:82:LEU:CG	41:DG:83:ARG:H	2.14	0.61
41:DG:117:PHE:CZ	41:DG:179:PRO:HG2	2.34	0.61
48:DQ:21:THR:CG2	48:DQ:101:ARG:HB2	2.30	0.61
50:DS:85:VAL:CG2	50:DS:106:ARG:HG3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:145:LYS:O	5:AE:149:GLU:HG2	2.00	0.61
15:AO:8:LYS:O	15:AO:12:ILE:HG13	2.01	0.61
24:AY:74:SER:O	24:AY:82:GLN:HG3	1.99	0.61
32:B7:48:LYS:HE2	32:B7:48:LYS:N	2.16	0.61
35:BA:610:G:H2'	35:BA:611:C:C6	2.34	0.61
35:BA:833:U:H2'	35:BA:834:C:C6	2.35	0.61
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.66	0.61
36:BB:29:A:H3'	50:BS:32:LEU:HD11	1.81	0.61
38:BD:27:THR:HG23	38:BD:27:THR:O	2.01	0.61
39:BE:12:THR:HG22	39:BE:13:ARG:N	2.15	0.61
40:BF:22:ALA:HB1	40:BF:26:ALA:CB	2.30	0.61
1:CA:1499:A:H5'	1:CA:1499:A:C8	2.31	0.61
2:CB:49:GLU:O	2:CB:52:GLU:HB3	1.99	0.61
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.83	0.61
3:CC:141:VAL:HG11	3:CC:202:ILE:CD1	2.28	0.61
4:CD:110:PHE:N	4:CD:110:PHE:CD1	2.64	0.61
10:CJ:4:ILE:HD13	10:CJ:74:ILE:HD12	1.83	0.61
35:DA:13:A:H61	35:DA:525:U:H3'	1.64	0.61
35:DA:65:C:H2'	35:DA:66:C:H6	1.65	0.61
35:DA:1024:G:C3'	35:DA:1025:G:H5''	2.24	0.61
35:DA:1281:G:O2'	35:DA:1282:U:H5'	2.01	0.61
35:DA:2808:U:O2'	35:DA:2809:A:H5'	2.00	0.61
37:DC:46:LYS:HB2	37:DC:46:LYS:NZ	2.15	0.61
40:DF:11:VAL:HG23	40:DF:12:LEU:H	1.65	0.61
40:DF:107:LYS:HD2	40:DF:205:ARG:O	2.00	0.61
44:DJ:40:UNK:O	44:DJ:55:UNK:HA	2.01	0.61
52:DU:98:LEU:HA	52:DU:101:ARG:O	2.00	0.61
56:DY:99:CYS:O	56:DY:100:ALA:HB2	2.00	0.61
1:AA:417:C:O2'	1:AA:418:C:H5'	2.00	0.61
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.65	0.61
2:AB:196:LEU:CD1	2:AB:197:VAL:HG13	2.28	0.61
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.01	0.61
10:AJ:100:THR:HG22	10:AJ:101:VAL:N	2.14	0.61
13:AM:80:ARG:HD3	29:B4:48:ARG:NH1	2.15	0.61
15:AO:79:ARG:O	15:AO:79:ARG:HD2	2.00	0.61
24:AY:73:GLY:CA	24:AY:82:GLN:HE21	2.13	0.61
33:B8:39:LYS:HA	33:B8:42:ARG:NH1	2.16	0.61
35:BA:648:G:O2'	35:BA:649:G:H5'	1.99	0.61
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.01	0.61
37:BC:43:VAL:HA	37:BC:212:VAL:CB	2.30	0.61
38:BD:31:LYS:HA	38:BD:31:LYS:HE2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:12:THR:O	39:BE:23:VAL:HG22	2.01	0.61
45:BN:40:PRO:HB3	52:BU:68:ALA:HB2	1.80	0.61
45:BN:134:ARG:O	45:BN:136:GLU:N	2.33	0.61
47:BP:23:PRO:HB2	47:BP:33:ARG:NE	2.15	0.61
50:BS:89:ARG:O	50:BS:92:TYR:HB3	2.01	0.61
51:BT:132:LYS:HD2	51:BT:132:LYS:H	1.66	0.61
1:CA:222:U:H2'	1:CA:223:U:H6	1.64	0.61
1:CA:1041:A:H2'	1:CA:1042:G:H8	1.66	0.61
1:CA:1403:C:N4	58:CX:18:G:OP2	2.27	0.61
2:CB:218:ALA:C	2:CB:220:ASP:N	2.59	0.61
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.14	0.61
16:CP:49:LEU:O	16:CP:49:LEU:HG	2.01	0.61
19:CS:18:LYS:O	19:CS:22:LEU:HD23	2.00	0.61
22:CV:55:U:HO2'	22:CV:56:C:H5	1.47	0.61
33:D8:39:LYS:HA	33:D8:42:ARG:NH1	2.16	0.61
33:D8:51:ALA:HA	33:D8:54:GLU:OE1	2.00	0.61
35:DA:556:G:H2'	35:DA:557:U:C6	2.35	0.61
35:DA:852:G:O2'	35:DA:853:G:H5'	2.01	0.61
38:DD:26:LYS:O	38:DD:27:THR:HG22	2.00	0.61
40:DF:25:PRO:O	40:DF:27:GLU:N	2.34	0.61
46:DO:18:LYS:HD2	46:DO:45:GLU:OE1	2.00	0.61
46:DO:25:LEU:HD12	46:DO:38:VAL:HG12	1.83	0.61
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.01	0.61
1:AA:1492:A:O2'	24:AY:57:GLN:N	2.34	0.61
8:AH:25:ASP:HA	8:AH:59:LEU:O	2.01	0.61
9:AI:43:ALA:C	9:AI:45:ALA:H	2.07	0.61
25:B0:40:GLN:HG3	25:B0:42:GLY:O	2.01	0.61
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	2.31	0.61
33:B8:61:LEU:HD23	33:B8:61:LEU:N	2.12	0.61
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	2.00	0.61
35:BA:576:U:H2'	35:BA:577:G:C8	2.36	0.61
35:BA:623:G:H2'	35:BA:624:C:C6	2.36	0.61
35:BA:2318:G:H5'	35:BA:2319:G:OP2	2.01	0.61
39:BE:65:GLY:HA2	39:BE:70:ALA:CB	2.31	0.61
39:BE:186:GLY:O	39:BE:187:ALA:HB3	2.01	0.61
42:BH:27:LYS:HG2	42:BH:28:GLY:N	2.15	0.61
46:BO:114:ILE:H	46:BO:114:ILE:HD12	1.64	0.61
47:BP:23:PRO:HD2	47:BP:33:ARG:NE	2.16	0.61
47:BP:98:GLU:OE1	47:BP:99:LEU:N	2.33	0.61
49:BR:32:GLY:O	49:BR:115:GLU:HA	2.01	0.61
56:BY:17:SER:HA	56:BY:71:LYS:HE2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:10:A:H2'	1:CA:11:G:H5'	1.81	0.61
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.01	0.61
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.36	0.61
1:CA:1410:G:O2'	1:CA:1411:C:H5'	2.01	0.61
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.65	0.61
8:CH:25:ASP:HA	8:CH:59:LEU:O	2.01	0.61
9:CI:28:VAL:HG13	9:CI:63:ILE:C	2.26	0.61
15:CO:37:ASN:N	15:CO:37:ASN:HD22	1.97	0.61
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.15	0.61
22:CW:63:G:H2'	22:CW:64:G:C8	2.36	0.61
35:DA:1174:A:OP1	35:DA:1175:U:H5''	1.99	0.61
35:DA:1721:G:H8	35:DA:1741:A:H62	1.48	0.61
35:DA:1833:U:H2'	35:DA:1834:U:C6	2.34	0.61
41:DG:102:PHE:CD1	41:DG:106:LEU:HD23	2.36	0.61
42:DH:70:THR:HG22	42:DH:74:ASN:HD21	1.65	0.61
43:DI:67:ARG:HG2	43:DI:70:GLU:OE2	2.01	0.61
50:DS:18:ILE:O	50:DS:20:ARG:N	2.32	0.61
51:DT:91:ARG:HB3	51:DT:117:ASP:H	1.66	0.61
53:DV:1:MET:HE1	53:DV:43:GLU:OE2	2.00	0.61
57:DZ:153:SER:HB2	57:DZ:167:PRO:HB2	1.82	0.61
1:AA:376:G:O2'	1:AA:377:G:H5'	2.01	0.61
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.82	0.61
5:AE:10:MET:HB3	5:AE:32:VAL:HG22	1.83	0.61
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	1.83	0.61
19:AS:29:ARG:HB2	19:AS:48:THR:H	1.66	0.61
22:AV:53:G:C5'	22:AV:53:G:H8	2.13	0.61
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.36	0.61
35:BA:2734:A:H5'	35:BA:2735:G:OP2	2.01	0.61
35:BA:2893:G:H5'	35:BA:2894:G:C5'	2.30	0.61
36:BB:7:G:H3'	36:BB:8:U:C5'	2.20	0.61
36:BB:40:U:H3'	36:BB:41:U:H5''	1.81	0.61
41:BG:114:ILE:HD12	41:BG:117:PHE:HD2	1.65	0.61
47:BP:16:ARG:HD3	47:BP:18:ARG:N	2.15	0.61
49:BR:10:LEU:HD22	49:BR:17:ARG:HD2	1.82	0.61
54:BW:59:VAL:HG12	54:BW:60:ASN:N	2.16	0.61
56:BY:31:LEU:N	56:BY:31:LEU:HD22	2.15	0.61
1:CA:4:U:H5'	4:CD:86:LYS:HE2	1.83	0.61
1:CA:115:G:H1'	1:CA:116:A:N7	2.15	0.61
1:CA:939:G:H1	1:CA:1344:C:H42	1.49	0.61
1:CA:957:U:H2'	1:CA:959:A:OP2	2.01	0.61
1:CA:1207:G:O2'	1:CA:1208:C:C5'	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1220:G:OP1	19:CS:37:ARG:HD2	2.00	0.61
4:CD:129:ASN:N	4:CD:129:ASN:HD22	1.99	0.61
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.30	0.61
8:CH:109:ILE:HD11	8:CH:120:THR:CG2	2.31	0.61
19:CS:20:LEU:HA	19:CS:23:ASN:HD22	1.65	0.61
19:CS:44:MET:HA	19:CS:47:HIS:HD2	1.65	0.61
22:CV:52:G:O2'	22:CV:53:G:C5'	2.41	0.61
26:D1:50:ARG:HH11	26:D1:50:ARG:CB	2.14	0.61
33:D8:4:MET:HE2	35:DA:593:G:O4'	2.01	0.61
35:DA:8:A:H2'	35:DA:9:U:C6	2.36	0.61
35:DA:661:C:H5''	47:DP:18:ARG:HD3	1.83	0.61
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.35	0.61
35:DA:1188:U:O2'	35:DA:1189:A:H5'	2.01	0.61
40:DF:65:TRP:CH2	40:DF:73:ALA:O	2.54	0.61
40:DF:83:PHE:O	40:DF:84:VAL:CB	2.48	0.61
47:DP:17:LYS:O	47:DP:19:VAL:HG22	2.00	0.61
47:DP:33:ARG:O	47:DP:34:GLY:C	2.43	0.61
48:DQ:26:TYR:HE1	48:DQ:28:ALA:HB2	1.65	0.61
51:DT:20:PRO:HG2	51:DT:85:LYS:O	2.00	0.61
51:DT:28:VAL:HG13	51:DT:45:PHE:C	2.26	0.61
57:DZ:23:LYS:HB3	57:DZ:38:TYR:CD1	2.36	0.61
57:DZ:27:VAL:O	57:DZ:87:ASP:HA	2.00	0.61
57:DZ:112:ARG:CZ	57:DZ:112:ARG:HA	2.30	0.61
1:AA:272:C:H2'	1:AA:273:A:H8	1.64	0.61
1:AA:626:U:H2'	1:AA:627:G:H8	1.62	0.61
1:AA:1064:G:OP2	1:AA:1386:G:H4'	2.01	0.61
2:AB:218:ALA:C	2:AB:220:ASP:N	2.59	0.61
4:AD:86:LYS:HE3	4:AD:86:LYS:N	2.16	0.61
10:AJ:4:ILE:HD13	10:AJ:74:ILE:HD12	1.82	0.61
14:AN:6:LEU:HD22	14:AN:21:TYR:OH	2.01	0.61
15:AO:70:LEU:O	15:AO:70:LEU:HD23	2.00	0.61
23:AX:23:A:O2'	23:AX:24:A:H8	1.84	0.61
24:AY:89:LYS:O	24:AY:89:LYS:CG	2.48	0.61
35:BA:943:U:OP2	47:BP:38:GLN:CD	2.44	0.61
35:BA:1011:G:H5''	52:BU:77:SER:OG	2.00	0.61
35:BA:2636:U:H4'	39:BE:80:GLU:CD	2.26	0.61
48:BQ:26:TYR:HE1	48:BQ:28:ALA:HB2	1.66	0.61
52:BU:98:LEU:HA	52:BU:101:ARG:O	2.01	0.61
1:CA:4:U:H5'	4:CD:86:LYS:CE	2.31	0.61
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.33	0.61
1:CA:645:C:C5'	1:CA:645:C:H6	2.09	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:44:VAL:HG11	10:CJ:46:ARG:CZ	2.31	0.61
13:CM:113:PRO:O	13:CM:115:LYS:HE2	2.01	0.61
17:CQ:53:LEU:HD23	17:CQ:54:GLY:N	2.16	0.61
20:CT:10:LEU:O	20:CT:13:LEU:HG	2.01	0.61
35:DA:886:C:H4'	35:DA:888:C:N4	2.14	0.61
35:DA:2307:G:H3'	35:DA:2307:G:N3	2.16	0.61
40:DF:203:GLN:O	40:DF:206:ILE:HG12	2.01	0.61
42:DH:68:THR:C	42:DH:70:THR:N	2.58	0.61
42:DH:170:ARG:H	42:DH:170:ARG:HD2	1.66	0.61
47:DP:23:PRO:CD	47:DP:33:ARG:CZ	2.79	0.61
51:DT:46:GLU:O	51:DT:65:LYS:HB2	2.01	0.61
52:DU:104:GLN:CD	52:DU:104:GLN:H	2.07	0.61
53:DV:16:PRO:O	53:DV:96:ILE:O	2.19	0.61
54:DW:110:LYS:HG3	54:DW:111:HIS:N	2.16	0.61
56:DY:17:SER:HA	56:DY:71:LYS:HE2	1.82	0.61
57:DZ:7:ALA:O	57:DZ:61:LEU:HD23	2.00	0.61
1:AA:149:A:O2'	1:AA:150:C:H5'	2.01	0.60
1:AA:386:C:O2'	1:AA:387:U:H5'	2.00	0.60
1:AA:1000:U:H2'	1:AA:1001:A:C8	2.36	0.60
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.36	0.60
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.01	0.60
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.36	0.60
5:AE:15:ARG:O	5:AE:17:ALA:N	2.34	0.60
11:AK:99:GLN:HG2	11:AK:105:VAL:CG1	2.29	0.60
15:AO:40:SER:HB2	35:BA:715:G:H21	1.65	0.60
20:AT:53:LEU:H	20:AT:53:LEU:CD1	2.14	0.60
35:BA:404:C:H4'	35:BA:405:U:H5'	1.83	0.60
35:BA:886:C:H4'	35:BA:888:C:N4	2.16	0.60
35:BA:1449:A:C2	35:BA:1529:G:C1'	2.81	0.60
35:BA:1560:G:H2'	35:BA:1561:G:H8	1.66	0.60
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.65	0.60
35:BA:2758:A:C5	42:BH:67:LEU:HD21	2.36	0.60
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.53	0.60
40:BF:162:LEU:HD22	40:BF:162:LEU:N	2.16	0.60
41:BG:117:PHE:HZ	41:BG:179:PRO:HG2	1.66	0.60
42:BH:68:THR:C	42:BH:70:THR:N	2.58	0.60
56:BY:81:LYS:HE2	56:BY:97:ARG:HH21	1.66	0.60
1:CA:105:G:H2'	1:CA:106:C:C6	2.35	0.60
1:CA:226:G:O2'	1:CA:227:G:H5'	1.99	0.60
1:CA:262:A:H5'	20:CT:74:LYS:HG3	1.82	0.60
1:CA:981:U:OP1	14:CN:6:LEU:HD21	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:145:LEU:O	2:CB:149:LEU:HB2	2.01	0.60
5:CE:13:ILE:HG22	5:CE:14:ARG:N	2.16	0.60
7:CG:79:ARG:NH2	22:CW:34:C:N4	2.48	0.60
9:CI:113:LYS:N	9:CI:113:LYS:HD2	2.16	0.60
13:CM:68:GLY:HA2	13:CM:71:ARG:HB2	1.83	0.60
27:D2:55:ARG:HG2	27:D2:55:ARG:NH2	2.16	0.60
35:DA:252:G:OP2	47:DP:50:ARG:NH1	2.34	0.60
35:DA:626:U:O2	47:DP:105:LEU:HG	2.01	0.60
35:DA:1434:A:H61	35:DA:1558:A:N6	1.99	0.60
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.35	0.60
35:DA:2821:A:OP2	49:DR:5:LYS:CE	2.49	0.60
43:DI:81:VAL:O	43:DI:82:ARG:O	2.19	0.60
46:DO:87:ILE:HG22	46:DO:88:ASN:N	2.16	0.60
48:DQ:1:MET:HE3	48:DQ:3:MET:HE2	1.81	0.60
48:DQ:137:TYR:OH	57:DZ:81:ARG:NH2	2.34	0.60
53:DV:19:LYS:HZ3	53:DV:20:LEU:H	1.49	0.60
1:AA:658:G:O2'	1:AA:659:U:H5'	2.00	0.60
1:AA:959:A:H2'	1:AA:960:U:H4'	1.83	0.60
1:AA:1041:A:H2'	1:AA:1042:G:H8	1.66	0.60
4:AD:142:PRO:HA	4:AD:185:PHE:HD2	1.65	0.60
8:AH:95:VAL:HG11	8:AH:133:LEU:HD12	1.83	0.60
9:AI:10:ARG:NH2	9:AI:108:VAL:HG12	2.16	0.60
19:AS:20:LEU:HA	19:AS:23:ASN:HD22	1.66	0.60
24:AY:93:LYS:HA	24:AY:96:LEU:OXT	2.02	0.60
33:B8:2:PRO:O	33:B8:3:LYS:HB3	2.01	0.60
35:BA:1278:A:H4'	49:BR:34:ILE:HD12	1.81	0.60
39:BE:51:PHE:C	39:BE:74:PRO:HB3	2.26	0.60
42:BH:170:ARG:HD2	42:BH:170:ARG:H	1.66	0.60
47:BP:7:ARG:HD2	47:BP:7:ARG:H	1.65	0.60
47:BP:16:ARG:CZ	47:BP:18:ARG:CG	2.79	0.60
57:BZ:17:ALA:O	57:BZ:20:ARG:HG2	2.00	0.60
1:CA:862:C:O2'	1:CA:863:U:H5'	2.01	0.60
10:CJ:65:LEU:HD12	14:CN:55:GLY:O	2.01	0.60
19:CS:58:VAL:HG21	19:CS:75:ALA:HB1	1.83	0.60
30:D5:2:ALA:HA	35:DA:2015:A:C1'	2.31	0.60
35:DA:81:G:H21	56:DY:2:ARG:NH1	1.99	0.60
35:DA:287:C:H2'	35:DA:288:C:C6	2.36	0.60
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.64	0.60
38:DD:35:LYS:HE3	38:DD:61:LEU:HG	1.82	0.60
38:DD:155:LEU:HD23	38:DD:177:LEU:CD2	2.30	0.60
40:DF:205:ARG:C	40:DF:206:ILE:HD13	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:38:VAL:HG22	41:DG:39:ILE:N	2.16	0.60
42:DH:156:ALA:O	42:DH:157:TYR:C	2.42	0.60
46:DO:104:ARG:HB3	46:DO:104:ARG:NH1	2.16	0.60
49:DR:13:HIS:HE1	49:DR:15:SER:HB2	1.67	0.60
56:DY:97:ARG:CZ	56:DY:97:ARG:O	2.48	0.60
1:AA:226:G:O2'	1:AA:227:G:H5'	2.00	0.60
1:AA:729:A:H2'	1:AA:730:G:H8	1.65	0.60
3:AC:90:GLU:HA	3:AC:93:LYS:NZ	2.17	0.60
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	2.01	0.60
12:AL:80:VAL:HG21	12:AL:97:ILE:HG23	1.83	0.60
24:AY:81:ASN:HD22	24:AY:81:ASN:N	1.99	0.60
33:B8:59:LYS:HZ3	33:B8:59:LYS:CB	2.07	0.60
35:BA:363(F):A:H5''	35:BA:364:C:OP1	2.01	0.60
35:BA:642:G:H21	35:BA:646:A:H2	1.48	0.60
35:BA:852:G:O2'	35:BA:853:G:H5'	2.01	0.60
35:BA:1533:G:H2'	35:BA:1543:C:OP1	2.01	0.60
35:BA:1592:C:O2'	35:BA:1593:G:H5''	2.01	0.60
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.36	0.60
40:BF:1:MET:HB3	40:BF:3:GLU:OE2	2.01	0.60
41:BG:21:ARG:HD3	41:BG:21:ARG:C	2.26	0.60
41:BG:41:GLN:HG2	41:BG:155:MET:HB2	1.83	0.60
53:BV:82:ARG:HH11	53:BV:82:ARG:HG2	1.66	0.60
1:CA:349:A:O2'	1:CA:350:G:H5'	2.01	0.60
1:CA:400:C:O5'	1:CA:400:C:H6	1.84	0.60
1:CA:959:A:H2'	1:CA:960:U:H4'	1.83	0.60
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.66	0.60
13:CM:70:LEU:O	13:CM:74:VAL:HG23	2.00	0.60
18:CR:19:LYS:HG3	18:CR:20:ALA:N	2.12	0.60
26:D1:5:CYS:HB3	26:D1:10:LYS:H	1.65	0.60
28:D3:29:ARG:HH11	28:D3:29:ARG:HG3	1.66	0.60
35:DA:158:U:H4'	35:DA:171:G:C8	2.36	0.60
35:DA:640:C:H2'	35:DA:641:C:C6	2.37	0.60
35:DA:1278:A:H4'	49:DR:34:ILE:HD12	1.83	0.60
35:DA:1997:G:O2'	35:DA:1998:G:H5'	2.00	0.60
35:DA:2653:U:H3'	35:DA:2654:A:C8	2.36	0.60
35:DA:2839:G:H5'	49:DR:46:GLY:HA2	1.83	0.60
39:DE:24:THR:HB	39:DE:186:GLY:HA2	1.82	0.60
45:DN:62:VAL:HG22	45:DN:66:LYS:HB2	1.84	0.60
51:DT:9:LEU:C	51:DT:11:GLU:H	2.08	0.60
56:DY:81:LYS:HD3	56:DY:96:ILE:HG21	1.83	0.60
57:DZ:95:PRO:HA	57:DZ:128:VAL:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:926:G:N2	1:AA:1505:G:H2'	2.16	0.60
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.31	0.60
18:AR:24:ALA:O	18:AR:26:LEU:N	2.35	0.60
22:AW:9:G:H1'	22:AW:45:G:H2'	1.82	0.60
26:B1:82:LEU:O	26:B1:83:GLU:HG2	2.01	0.60
35:BA:1509(A):A:H2'	35:BA:1509(B):A:C8	2.36	0.60
35:BA:1826:G:H4'	38:BD:242:ARG:NE	2.15	0.60
35:BA:2715:C:O2'	35:BA:2716:U:H5'	2.01	0.60
35:BA:2722:G:H2'	35:BA:2723:C:H6	1.64	0.60
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.01	0.60
35:BA:2886:G:H2'	35:BA:2887:U:H6	1.66	0.60
38:BD:79:VAL:CG2	38:BD:111:LEU:HD11	2.28	0.60
39:BE:68:ALA:C	39:BE:70:ALA:H	2.09	0.60
41:BG:46:ALA:O	41:BG:47:LYS:HG3	2.01	0.60
43:BI:2:LYS:HB2	43:BI:39:ALA:HB3	1.82	0.60
51:BT:9:LEU:C	51:BT:11:GLU:H	2.09	0.60
1:CA:1041:A:H2'	1:CA:1042:G:C8	2.36	0.60
1:CA:1118:C:H5'	9:CI:104:ARG:HD3	1.82	0.60
1:CA:1492:A:O2'	24:CY:9:TYR:CG	2.50	0.60
1:CA:1492:A:H4'	1:CA:1493:A3P:O4P	2.02	0.60
4:CD:108:LEU:HD23	4:CD:110:PHE:CE1	2.36	0.60
12:CL:67:ILE:HG21	12:CL:74:LEU:CD1	2.31	0.60
17:CQ:35:VAL:O	17:CQ:36:ILE:HG23	2.01	0.60
19:CS:57:HIS:O	19:CS:59:PRO:HD3	2.00	0.60
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.01	0.60
22:CV:36:U:N3	58:CX:16:A:N6	2.45	0.60
35:DA:1665:A:O2'	35:DA:1666:G:H5'	2.01	0.60
36:DB:82:G:O2'	36:DB:83:G:H5'	2.00	0.60
38:DD:122:ASP:CG	38:DD:123:ALA:H	2.09	0.60
39:DE:51:PHE:C	39:DE:74:PRO:HB3	2.27	0.60
47:DP:16:ARG:CZ	47:DP:18:ARG:CG	2.80	0.60
1:AA:1370:G:H5''	9:AI:12:GLU:HG3	1.84	0.60
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.16	0.60
29:B4:56:VAL:HG13	29:B4:57:GLU:N	2.13	0.60
33:B8:50:LEU:HD12	33:B8:54:GLU:OE2	2.01	0.60
35:BA:303:U:H2'	35:BA:304:G:H8	1.66	0.60
35:BA:364:C:H2'	35:BA:365:C:C5'	2.31	0.60
35:BA:2542:A:H5''	35:BA:2542:A:N3	2.16	0.60
39:BE:24:THR:HB	39:BE:186:GLY:HA2	1.83	0.60
40:BF:123:LEU:HD13	40:BF:192:LEU:HD13	1.82	0.60
42:BH:70:THR:HG22	42:BH:74:ASN:HD21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:24:VAL:HG23	46:BO:33:ALA:HB2	1.82	0.60
47:BP:48:PRO:O	47:BP:50:ARG:N	2.34	0.60
47:BP:84:ASN:O	47:BP:88:LEU:HD13	2.00	0.60
47:BP:131:SER:O	47:BP:134:ALA:HB3	2.02	0.60
1:CA:236:G:H2'	1:CA:237:C:C6	2.37	0.60
1:CA:1465:C:H2'	1:CA:1466:C:H6	1.65	0.60
2:CB:52:GLU:CG	2:CB:56:ARG:HH12	2.10	0.60
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.10	0.60
3:CC:134:ILE:O	3:CC:138:VAL:HG23	2.02	0.60
4:CD:100:ARG:NH1	4:CD:137:SER:HA	2.16	0.60
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	2.01	0.60
16:CP:8:ARG:HH21	16:CP:15:PRO:HG3	1.65	0.60
20:CT:43:LEU:HD13	20:CT:51:GLU:HG3	1.83	0.60
35:DA:151:C:O2'	35:DA:152:G:H5'	2.02	0.60
35:DA:364:C:H2'	35:DA:365:C:C5'	2.32	0.60
35:DA:389:G:N1	47:DP:71:VAL:HG12	2.16	0.60
35:DA:910:A:C5	48:DQ:13:GLN:HG3	2.37	0.60
35:DA:1693:U:H1'	38:DD:14:ARG:HH12	1.66	0.60
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.36	0.60
40:DF:12:LEU:O	40:DF:12:LEU:HD23	2.01	0.60
40:DF:123:LEU:HD13	40:DF:192:LEU:HD13	1.83	0.60
41:DG:111:LEU:HD22	41:DG:120:LEU:HD21	1.83	0.60
41:DG:128:ARG:O	41:DG:130:ASN:N	2.28	0.60
50:DS:89:ARG:HB3	50:DS:92:TYR:CB	2.32	0.60
55:DX:80:ILE:HD13	55:DX:80:ILE:O	2.01	0.60
56:DY:95:LYS:HE2	56:DY:99:CYS:O	2.01	0.60
57:DZ:10:ARG:HD2	57:DZ:36:LYS:HD3	1.84	0.60
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.01	0.60
6:AF:18:GLN:O	6:AF:21:LEU:HB2	2.01	0.60
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.16	0.60
14:AN:42:ILE:O	14:AN:45:ARG:HB2	2.01	0.60
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.37	0.60
22:AV:56:C:OP1	22:AV:56:C:C5	2.55	0.60
24:AY:28:ILE:CG1	24:AY:29:PRO:CD	2.76	0.60
29:B4:55:ARG:HD3	29:B4:56:VAL:N	2.15	0.60
35:BA:1115:G:H2'	35:BA:1116:C:O4'	2.02	0.60
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.36	0.60
35:BA:1916:A:H5'	35:BA:1916:A:C8	2.32	0.60
35:BA:2068:U:H3	35:BA:2430:A:H2	0.77	0.60
35:BA:2143:C:H2'	35:BA:2144:U:C6	2.35	0.60
38:BD:16:MET:HA	38:BD:205:VAL:CG1	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:147:LEU:HD12	38:BD:155:LEU:HD21	1.83	0.60
40:BF:11:VAL:HG23	40:BF:12:LEU:H	1.66	0.60
41:BG:75:LYS:HG2	41:BG:76:SER:H	1.65	0.60
47:BP:62:LEU:HD22	47:BP:62:LEU:H	1.66	0.60
50:BS:87:PHE:HE2	50:BS:92:TYR:HD2	1.50	0.60
55:BX:12:VAL:HG23	55:BX:17:ALA:HB1	1.84	0.60
1:CA:34:C:C3'	1:CA:35:G:H5'	2.31	0.60
1:CA:253:U:H2'	1:CA:254:G:C8	2.35	0.60
1:CA:599:C:H2'	1:CA:600:C:H6	1.67	0.60
5:CE:10:MET:HB3	5:CE:32:VAL:HG22	1.83	0.60
10:CJ:4:ILE:CD1	10:CJ:74:ILE:HB	2.31	0.60
14:CN:6:LEU:HD22	14:CN:21:TYR:OH	2.01	0.60
15:CO:68:ARG:O	15:CO:71:GLN:HB3	2.02	0.60
35:DA:864:G:H2'	35:DA:866:A:H62	1.66	0.60
35:DA:1509(A):A:H2'	35:DA:1509(B):A:C8	2.36	0.60
35:DA:1693:U:H1'	38:DD:14:ARG:NH1	2.16	0.60
36:DB:5:C:O2'	36:DB:6:C:H5'	2.02	0.60
51:DT:107:ASP:H	51:DT:110:ILE:CG1	2.14	0.60
51:DT:132:LYS:H	51:DT:132:LYS:HD2	1.67	0.60
1:AA:939:G:H1	1:AA:1344:C:H42	1.50	0.60
1:AA:1130:A:N6	1:AA:1143:G:H21	2.00	0.60
2:AB:112:VAL:C	2:AB:114:ARG:H	2.10	0.60
3:AC:34:LEU:CB	3:AC:38:ARG:HH21	2.10	0.60
5:AE:12:LEU:HD13	5:AE:31:LEU:HB3	1.84	0.60
5:AE:78:HIS:CE1	5:AE:142:LEU:HA	2.37	0.60
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	2.02	0.60
12:AL:72:HIS:CD2	12:AL:74:LEU:HB2	2.33	0.60
23:AX:22:A:C2'	23:AX:23:A:O5'	2.50	0.60
24:AY:47:LYS:HG2	24:AY:49:ARG:HB2	1.81	0.60
39:BE:4:ILE:HD13	39:BE:28:ALA:HB1	1.83	0.60
39:BE:117:MET:HA	39:BE:122:PHE:H	1.66	0.60
42:BH:43:VAL:HG11	42:BH:52:VAL:HG22	1.83	0.60
42:BH:86:GLU:HA	42:BH:132:ARG:CB	2.30	0.60
43:BI:85:GLU:O	43:BI:86:THR:HG23	2.01	0.60
45:BN:78:TYR:H	45:BN:78:TYR:HD1	1.47	0.60
47:BP:100:LEU:HD22	47:BP:100:LEU:H	1.66	0.60
51:BT:2:ASN:O	51:BT:4:GLY:N	2.35	0.60
51:BT:88:ILE:HG22	51:BT:89:VAL:HG13	1.84	0.60
52:BU:95:LEU:C	52:BU:97:ASP:H	2.08	0.60
56:BY:97:ARG:HH22	56:BY:98:VAL:HB	1.66	0.60
57:BZ:28:MET:HA	57:BZ:88:PHE:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:591:U:O5'	1:CA:591:U:H6	1.85	0.60
1:CA:837:G:H2'	1:CA:838:G:H8	1.67	0.60
1:CA:1306:A:H1'	1:CA:1332:A:C2	2.36	0.60
1:CA:1324:A:H4'	1:CA:1362:C:O3'	2.01	0.60
8:CH:51:VAL:HG21	8:CH:60:ARG:HH11	1.67	0.60
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.02	0.60
18:CR:44:LEU:O	18:CR:45:SER:C	2.43	0.60
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.84	0.60
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	1.84	0.60
20:CT:53:LEU:H	20:CT:53:LEU:CD1	2.15	0.60
25:D0:26:TYR:HB2	25:D0:29:GLN:HE21	1.66	0.60
35:DA:1778:U:H2'	35:DA:1784:A:N6	2.16	0.60
35:DA:2742:C:O2'	35:DA:2743:C:H5'	2.01	0.60
38:DD:159:ALA:HB1	38:DD:198:ASN:O	2.01	0.60
46:DO:1:MET:HE2	46:DO:32:TYR:CD2	2.37	0.60
50:DS:89:ARG:CB	50:DS:92:TYR:HB3	2.32	0.60
51:DT:50:ILE:HD11	51:DT:99:LEU:O	2.01	0.60
53:DV:19:LYS:HG3	53:DV:20:LEU:O	2.02	0.60
1:AA:1305:G:H22	1:AA:1331:G:H1'	1.66	0.60
5:AE:14:ARG:HG3	5:AE:16:THR:HG23	1.84	0.60
5:AE:100:VAL:HG23	5:AE:100:VAL:O	2.01	0.60
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.14	0.60
14:AN:33:VAL:O	14:AN:33:VAL:HG23	2.02	0.60
20:AT:24:LEU:HD13	20:AT:25:ARG:N	2.17	0.60
38:BD:134:ARG:HG3	38:BD:135:PHE:CE1	2.36	0.60
45:BN:18:ALA:HB1	45:BN:21:LYS:CB	2.32	0.60
45:BN:33:LEU:HD23	45:BN:38:HIS:HD2	1.66	0.60
47:BP:41:ARG:CA	47:BP:41:ARG:HE	2.15	0.60
47:BP:58:THR:O	47:BP:61:ARG:NE	2.35	0.60
48:BQ:43:THR:HB	48:BQ:45:GLN:NE2	2.16	0.60
51:BT:11:GLU:HA	51:BT:11:GLU:OE1	2.01	0.60
51:BT:125:ARG:C	51:BT:127:ALA:H	2.10	0.60
52:BU:61:TRP:O	52:BU:62:ILE:C	2.45	0.60
53:BV:19:LYS:HE2	53:BV:19:LYS:HA	1.83	0.60
56:BY:43:ASN:HA	56:BY:64:GLU:HA	1.84	0.60
1:CA:184:G:H2'	1:CA:185:A:H8	1.67	0.60
1:CA:545:C:O2'	1:CA:546:G:H5'	2.00	0.60
1:CA:918:A:H2'	1:CA:919:A:C8	2.37	0.60
1:CA:1466:C:H2'	1:CA:1466:C:O2	2.01	0.60
4:CD:31:CYS:O	4:CD:31:CYS:SG	2.59	0.60
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:77:ASN:OD1	29:D4:48:ARG:NH2	2.34	0.60
21:CU:6:ARG:CZ	21:CU:15:ARG:HH22	2.15	0.60
35:DA:648:G:O4'	35:DA:2351:G:H5''	2.02	0.60
35:DA:909:A:H2'	35:DA:912:C:H5	1.67	0.60
35:DA:925:C:C2'	35:DA:926:A:C5'	2.76	0.60
38:DD:134:ARG:HG3	38:DD:135:PHE:CE1	2.35	0.60
39:DE:51:PHE:H	39:DE:74:PRO:HB2	1.65	0.60
41:DG:97:ASP:O	41:DG:101:ILE:HG23	2.02	0.60
50:DS:66:ALA:HA	50:DS:69:VAL:HG12	1.83	0.60
51:DT:14:TYR:N	51:DT:14:TYR:CD1	2.70	0.60
51:DT:57:PHE:O	51:DT:59:THR:N	2.33	0.60
53:DV:22:VAL:O	53:DV:23:GLU:CB	2.49	0.60
56:DY:23:ARG:O	56:DY:24:VAL:O	2.19	0.60
1:AA:16:A:N1	1:AA:919:A:H2	2.00	0.60
1:AA:452:A:H62	1:AA:480:U:H3	1.49	0.60
1:AA:663:A:O3'	18:AR:64:ARG:NH2	2.35	0.60
1:AA:857:C:H2'	1:AA:858:G:O4'	2.01	0.60
1:AA:1493:A3P:H3'	24:AY:55:ASP:OD2	2.02	0.60
4:AD:150:GLU:O	4:AD:152:SER:N	2.35	0.60
6:AF:40:VAL:HG22	6:AF:40:VAL:O	2.01	0.60
16:AP:8:ARG:HH21	16:AP:15:PRO:HG3	1.66	0.60
16:AP:49:LEU:CD1	16:AP:73:LEU:HB3	2.32	0.60
33:B8:59:LYS:O	33:B8:61:LEU:HD23	2.02	0.60
35:BA:911:A:H2'	48:BQ:9:TYR:HH	1.66	0.60
35:BA:1496:A:C8	35:BA:1577:C:O2'	2.46	0.60
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.32	0.60
35:BA:2305:A:C3'	35:BA:2306:C:H5''	2.28	0.60
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.36	0.60
47:BP:47:ASP:HB3	47:BP:48:PRO:HA	1.82	0.60
53:BV:34:GLU:O	53:BV:34:GLU:HG3	2.02	0.60
53:BV:99:ILE:HD13	53:BV:99:ILE:N	2.16	0.60
1:CA:337:C:H2'	1:CA:338:A:C8	2.36	0.60
1:CA:601:C:H2'	1:CA:602:A:C8	2.37	0.60
1:CA:674:G:H2'	1:CA:675:A:C8	2.34	0.60
2:CB:212:GLN:HG3	2:CB:235:SER:HB2	1.83	0.60
10:CJ:50:ILE:HG23	10:CJ:60:ARG:NH1	2.16	0.60
11:CK:111:ASP:HA	18:CR:84:LYS:HG3	1.83	0.60
16:CP:6:LEU:HB3	16:CP:17:TYR:HD2	1.67	0.60
19:CS:31:ILE:HG22	19:CS:48:THR:O	2.02	0.60
25:D0:19:LYS:HD2	25:D0:19:LYS:N	2.17	0.60
35:DA:404:C:H4'	35:DA:405:U:H5'	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1496:A:C8	35:DA:1577:C:O2'	2.46	0.60
43:DI:58:LEU:HG	43:DI:61:ARG:NH2	2.16	0.60
43:DI:114:LEU:C	43:DI:116:LEU:H	2.09	0.60
47:DP:8:PRO:C	47:DP:10:PRO:HD3	2.27	0.60
47:DP:71:VAL:CG1	47:DP:72:PRO:HD3	2.32	0.60
51:DT:77:PRO:O	51:DT:78:LEU:HB3	2.01	0.60
52:DU:95:LEU:C	52:DU:97:ASP:H	2.09	0.60
52:DU:106:PHE:O	52:DU:110:VAL:HG23	2.02	0.60
1:AA:657:G:H4'	15:AO:28:GLN:HG2	1.83	0.60
1:AA:708:C:H2'	1:AA:709:G:H8	1.65	0.60
7:AG:15:ASP:HB3	7:AG:19:GLY:H	1.67	0.60
8:AH:19:VAL:HG23	8:AH:21:LYS:HG3	1.82	0.60
13:AM:93:ARG:HB3	13:AM:94:ARG:HH11	1.67	0.60
19:AS:21:GLU:HG3	19:AS:22:LEU:CD2	2.32	0.60
19:AS:58:VAL:HG21	19:AS:75:ALA:HB1	1.83	0.60
21:AU:18:TYR:HD2	21:AU:24:ARG:HA	1.66	0.60
24:AY:33:LYS:N	24:AY:38:GLY:O	2.35	0.60
33:B8:39:LYS:HA	33:B8:42:ARG:HH12	1.67	0.60
35:BA:1665:A:H4'	46:BO:67:LYS:HB2	1.84	0.60
35:BA:1701:A:H5'	35:BA:1702:G:OP2	2.00	0.60
41:BG:27:ASN:HD22	41:BG:28:VAL:H	1.49	0.60
45:BN:62:VAL:HG22	45:BN:66:LYS:HB2	1.84	0.60
47:BP:23:PRO:CD	47:BP:33:ARG:CZ	2.80	0.60
47:BP:84:ASN:ND2	47:BP:115:LEU:HG	2.17	0.60
1:CA:21:G:H1'	1:CA:915:A:N6	2.16	0.60
1:CA:272:C:H2'	1:CA:273:A:H8	1.66	0.60
1:CA:826:C:H5'	8:CH:12:ARG:HH21	1.67	0.60
1:CA:1116:C:H2'	1:CA:1117:G:O4'	2.02	0.60
6:CF:82:ARG:HB2	6:CF:85:VAL:CG2	2.32	0.60
8:CH:53:VAL:O	8:CH:56:LYS:HB2	2.01	0.60
12:CL:30:ARG:O	12:CL:82:ILE:HG22	2.02	0.60
12:CL:39:THR:O	24:CY:7:HIS:CE1	2.54	0.60
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.02	0.60
26:D1:68:PRO:HG2	26:D1:69:LYS:H	1.65	0.60
33:D8:39:LYS:HA	33:D8:42:ARG:HH12	1.66	0.60
35:DA:2563:U:H4'	46:DO:28:SER:HA	1.83	0.60
39:DE:9:VAL:HG13	39:DE:25:VAL:O	2.02	0.60
41:DG:52:ILE:CG1	41:DG:53:LEU:H	2.02	0.60
47:DP:16:ARG:C	47:DP:16:ARG:HD3	2.27	0.60
47:DP:84:ASN:HD21	47:DP:115:LEU:HG	1.67	0.60
49:DR:29:LEU:O	49:DR:75:LEU:HD21	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:31:SER:HB3	51:DT:43:GLN:O	2.02	0.60
54:DW:17:VAL:O	54:DW:18:ARG:C	2.44	0.60
57:DZ:33:LEU:HG	57:DZ:34:ASN:H	1.66	0.60
1:AA:35:G:H21	12:AL:115:SER:CB	2.14	0.59
1:AA:1241:G:H1	1:AA:1296:C:H42	1.50	0.59
4:AD:63:LYS:HD2	4:AD:198:VAL:HG12	1.83	0.59
16:AP:49:LEU:O	16:AP:49:LEU:HG	2.02	0.59
35:BA:640:C:H2'	35:BA:641:C:C6	2.36	0.59
35:BA:1188:U:O2'	35:BA:1189:A:H5'	2.01	0.59
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.02	0.59
35:BA:2833:G:C3'	35:BA:2834:G:C5'	2.76	0.59
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.84	0.59
43:BI:82:ARG:CB	43:BI:145:VAL:N	2.65	0.59
45:BN:19:GLU:HG2	45:BN:56:ASN:HD22	1.67	0.59
45:BN:57:ALA:N	45:BN:124:ALA:HA	2.10	0.59
50:BS:85:VAL:HG23	50:BS:106:ARG:HG3	1.82	0.59
51:BT:128:GLU:CD	51:BT:129:ARG:N	2.60	0.59
52:BU:79:PHE:O	52:BU:83:LEU:HD13	2.02	0.59
1:CA:400:C:C3'	1:CA:401:C:H5'	2.28	0.59
1:CA:1027:C:H2'	1:CA:1028:C:C5	2.37	0.59
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.36	0.59
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.37	0.59
17:CQ:87:LYS:HZ3	17:CQ:87:LYS:HA	1.65	0.59
20:CT:39:LYS:O	20:CT:43:LEU:HG	2.02	0.59
26:D1:15:ALA:O	26:D1:40:ARG:HG3	2.01	0.59
33:D8:30:ARG:CZ	35:DA:2419:U:O4	2.50	0.59
35:DA:118:A:H5'	35:DA:119:A:H8	1.65	0.59
35:DA:389:G:H1	47:DP:71:VAL:HG12	1.67	0.59
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.43	0.59
35:DA:2199:A:H5'	35:DA:2200:C:OP2	2.02	0.59
36:DB:42:C:H42	41:DG:91:ARG:NH2	2.00	0.59
38:DD:45:ASN:CG	38:DD:46:GLN:N	2.53	0.59
40:DF:1:MET:HB3	40:DF:3:GLU:OE2	2.02	0.59
43:DI:85:GLU:O	43:DI:86:THR:HG23	2.02	0.59
56:DY:28:LYS:O	56:DY:38:ILE:HB	2.02	0.59
56:DY:43:ASN:HA	56:DY:64:GLU:HA	1.83	0.59
57:DZ:126:VAL:HA	57:DZ:164:ALA:H	1.66	0.59
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.36	0.59
1:AA:1188:A:H5''	14:AN:58:LYS:NZ	2.17	0.59
1:AA:1380:U:N3	7:AG:3:ARG:HD3	2.16	0.59
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.08	0.59
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.84	0.59
25:B0:26:TYR:HB2	25:B0:29:GLN:HE21	1.66	0.59
35:BA:1531:C:H3'	35:BA:1531:C:H6	1.67	0.59
35:BA:1592:C:H2'	35:BA:1593:G:C5'	2.29	0.59
35:BA:1915:U:C3'	35:BA:1916:A:C5'	2.80	0.59
35:BA:2876:G:O5'	51:BT:3:ARG:HA	2.02	0.59
38:BD:144:ALA:HB3	38:BD:192:THR:HG23	1.84	0.59
39:BE:179:GLU:HB2	39:BE:181:LEU:HD13	1.83	0.59
52:BU:92:ARG:HG2	52:BU:92:ARG:O	2.02	0.59
56:BY:17:SER:CA	56:BY:71:LYS:HE2	2.32	0.59
56:BY:88:LYS:NZ	56:BY:93:GLY:CA	2.64	0.59
1:CA:127:G:H2'	1:CA:128:G:H8	1.67	0.59
1:CA:687:A:H1'	1:CA:688:G:OP2	2.02	0.59
1:CA:857:C:H2'	1:CA:858:G:O4'	2.02	0.59
1:CA:1055:A:O2'	3:CC:161:GLU:HA	2.02	0.59
1:CA:1280:A:H5''	10:CJ:41:PRO:HD2	1.84	0.59
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.66	0.59
3:CC:75:VAL:O	3:CC:83:ARG:HG2	2.02	0.59
7:CG:80:VAL:HG12	7:CG:81:GLY:N	2.11	0.59
10:CJ:50:ILE:CG2	10:CJ:60:ARG:HD3	2.32	0.59
10:CJ:100:THR:HG22	10:CJ:101:VAL:N	2.16	0.59
11:CK:12:ARG:HG2	11:CK:13:GLN:N	2.17	0.59
21:CU:18:TYR:HD2	21:CU:24:ARG:HA	1.66	0.59
28:D3:6:VAL:O	28:D3:34:GLU:HA	2.02	0.59
31:D6:15:GLU:HG2	31:D6:15:GLU:O	2.00	0.59
35:DA:1448:G:H5'	35:DA:1449:A:OP1	2.02	0.59
35:DA:2167:U:H2'	35:DA:2168:G:C8	2.36	0.59
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.34	0.59
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.37	0.59
35:DA:2322:A:H2'	35:DA:2323:G:O4'	2.01	0.59
38:DD:70:TRP:HZ3	38:DD:146:GLU:CD	2.10	0.59
39:DE:111:ARG:HB2	39:DE:160:TYR:O	2.02	0.59
41:DG:69:ALA:HB3	41:DG:91:ARG:O	2.01	0.59
42:DH:43:VAL:HG11	42:DH:52:VAL:HG22	1.83	0.59
44:DJ:102:UNK:HA	44:DJ:105:UNK:O	2.02	0.59
47:DP:131:SER:O	47:DP:134:ALA:HB3	2.03	0.59
52:DU:61:TRP:O	52:DU:62:ILE:C	2.43	0.59
53:DV:82:ARG:HG2	53:DV:82:ARG:NH1	2.17	0.59
1:AA:386:C:H2'	1:AA:387:U:H5'	1.84	0.59
1:AA:685:G:O2'	1:AA:686:U:H5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:17:ALA:HB2	5:AE:26:PHE:CD2	2.37	0.59
9:AI:86:VAL:HG11	9:AI:96:LEU:HD22	1.83	0.59
24:AY:31:THR:HG23	24:AY:53:GLU:OE2	2.01	0.59
35:BA:1174:A:OP1	35:BA:1174:A:H3'	2.02	0.59
37:BC:47:LEU:HD23	37:BC:47:LEU:H	1.67	0.59
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.01	0.59
41:BG:83:ARG:C	41:BG:84:LYS:HD2	2.28	0.59
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CD1	2.37	0.59
48:BQ:55:VAL:HG12	48:BQ:64:ILE:HD12	1.85	0.59
56:BY:27:VAL:HA	56:BY:28:LYS:NZ	2.18	0.59
57:BZ:126:VAL:HA	57:BZ:163:LEU:HA	1.84	0.59
1:CA:262:A:H2'	1:CA:263:A:C8	2.37	0.59
1:CA:474:G:H2'	1:CA:475:G:H8	1.68	0.59
1:CA:692:U:H2'	1:CA:694:A:OP2	2.01	0.59
1:CA:1516:G:H2'	1:CA:1517:G:C5'	2.28	0.59
2:CB:162:ILE:HD12	2:CB:162:ILE:O	2.02	0.59
3:CC:94:LEU:HG	3:CC:95:THR:H	1.67	0.59
3:CC:149:ALA:HA	3:CC:201:TYR:O	2.02	0.59
5:CE:78:HIS:CE1	5:CE:142:LEU:HA	2.37	0.59
10:CJ:50:ILE:HD11	14:CN:41:ARG:NH1	2.17	0.59
11:CK:57:THR:HG23	11:CK:60:ALA:HB2	1.84	0.59
18:CR:66:LEU:HG	18:CR:70:ILE:CD1	2.30	0.59
27:D2:38:GLN:NE2	27:D2:44:LEU:HD13	2.17	0.59
34:D9:18:ARG:HE	34:D9:23:VAL:HG22	1.66	0.59
35:DA:605:C:O2	35:DA:657:U:O2'	2.19	0.59
35:DA:1563:G:O2'	35:DA:1564:C:H5'	2.02	0.59
35:DA:2619:C:O2'	35:DA:2620:C:H5'	2.01	0.59
39:DE:77:ILE:HG22	39:DE:78:LEU:N	2.14	0.59
40:DF:102:PRO:HB2	40:DF:105:VAL:HG23	1.83	0.59
41:DG:59:GLU:HA	41:DG:62:LEU:HD23	1.83	0.59
41:DG:161:THR:HG23	41:DG:163:ALA:HB3	1.85	0.59
48:DQ:26:TYR:CE1	48:DQ:28:ALA:HB2	2.37	0.59
53:DV:46:VAL:HG22	53:DV:47:VAL:O	2.02	0.59
56:DY:17:SER:HB2	56:DY:71:LYS:HE2	1.83	0.59
1:AA:262:A:H5'	20:AT:74:LYS:HG3	1.85	0.59
1:AA:659:U:H2'	1:AA:660:G:C8	2.38	0.59
1:AA:1165:C:H2'	1:AA:1166:G:H8	1.67	0.59
1:AA:1346:A:H5'	9:AI:120:ARG:HH12	1.68	0.59
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.67	0.59
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.02	0.59
2:AB:168:THR:HG21	2:AB:192:SER:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:15:ASP:H	7:AG:20:ASP:H	1.49	0.59
7:AG:79:ARG:HB2	7:AG:84:ASN:HD21	1.68	0.59
7:AG:91:VAL:HG12	7:AG:95:ARG:HB3	1.84	0.59
8:AH:63:LEU:HB2	8:AH:65:TYR:CE1	2.37	0.59
15:AO:69:TYR:HD1	15:AO:72:ARG:NH2	2.00	0.59
35:BA:158:U:H4'	35:BA:171:G:C8	2.37	0.59
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.67	0.59
35:BA:1582:C:H2'	35:BA:1583:A:H8	1.66	0.59
35:BA:2842:G:O2'	35:BA:2843:G:H5'	2.02	0.59
40:BF:114:VAL:HG21	40:BF:202:PHE:CZ	2.38	0.59
46:BO:104:ARG:NH1	46:BO:104:ARG:HB3	2.18	0.59
50:BS:99:LYS:O	50:BS:101:LEU:N	2.34	0.59
57:BZ:163:LEU:HD23	57:BZ:163:LEU:H	1.66	0.59
1:CA:341:C:O2'	1:CA:342:C:H5'	2.03	0.59
1:CA:663:A:O3'	18:CR:64:ARG:NH2	2.35	0.59
1:CA:930:C:O2'	1:CA:931:C:H5'	2.03	0.59
1:CA:1224:G:H4'	13:CM:102:ARG:NE	2.16	0.59
1:CA:1327:C:H2'	1:CA:1328:C:H6	1.67	0.59
1:CA:1437:C:H2'	1:CA:1438:G:H8	1.68	0.59
2:CB:21:ARG:NH2	2:CB:38:GLY:HA3	2.18	0.59
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.02	0.59
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.33	0.59
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.31	0.59
22:CV:9:G:H21	22:CV:45:G:H3'	1.68	0.59
35:DA:796:C:H2'	35:DA:797:C:C6	2.38	0.59
35:DA:993:G:OP1	52:DU:50:ARG:NH2	2.35	0.59
35:DA:1915:U:C6	35:DA:1916:A:H8	2.20	0.59
35:DA:2315:G:H21	41:DG:128:ARG:CZ	2.15	0.59
38:DD:31:LYS:HA	38:DD:31:LYS:HE2	1.83	0.59
39:DE:65:GLY:O	39:DE:67:PHE:N	2.35	0.59
42:DH:64:LEU:O	42:DH:66:GLY:N	2.30	0.59
44:DJ:20:UNK:CB	44:DJ:89:UNK:HA	2.32	0.59
47:DP:78:PRO:HA	47:DP:110:TYR:CZ	2.38	0.59
51:DT:36:GLU:O	51:DT:38:ASN:N	2.35	0.59
53:DV:1:MET:HB2	53:DV:99:ILE:HG13	1.85	0.59
53:DV:81:TYR:C	53:DV:82:ARG:HD2	2.28	0.59
57:DZ:69:THR:CG2	57:DZ:90:VAL:HG22	2.33	0.59
57:DZ:127:LYS:HB2	57:DZ:162:GLU:HB2	1.85	0.59
1:AA:67:C:H2'	1:AA:68:G:C8	2.37	0.59
3:AC:71:ALA:HB1	3:AC:109:PRO:HB3	1.85	0.59
3:AC:141:VAL:CG1	3:AC:202:ILE:HD12	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:85:ARG:HH11	8:AH:85:ARG:HG3	1.68	0.59
8:AH:109:ILE:HD11	8:AH:120:THR:CG2	2.31	0.59
10:AJ:65:LEU:HD12	14:AN:55:GLY:O	2.03	0.59
11:AK:22:HIS:HB3	11:AK:29:ILE:HG22	1.84	0.59
13:AM:68:GLY:HA2	13:AM:71:ARG:HB2	1.83	0.59
19:AS:18:LYS:O	19:AS:22:LEU:HD23	2.02	0.59
35:BA:1528(A):A:C8	35:BA:1529:G:C4	2.91	0.59
35:BA:2199:A:H5'	35:BA:2200:C:OP2	2.02	0.59
40:BF:12:LEU:O	40:BF:12:LEU:HD23	2.03	0.59
40:BF:25:PRO:O	40:BF:27:GLU:N	2.34	0.59
41:BG:143:GLU:CD	41:BG:143:GLU:H	2.09	0.59
47:BP:64:LYS:O	47:BP:66:GLY:N	2.35	0.59
51:BT:2:ASN:O	51:BT:3:ARG:C	2.45	0.59
51:BT:107:ASP:H	51:BT:110:ILE:CG1	2.15	0.59
1:CA:13:U:O4	1:CA:21:G:C2	2.55	0.59
1:CA:46:G:H2'	1:CA:366:C:C5	2.37	0.59
1:CA:678:U:H2'	1:CA:679:C:C6	2.37	0.59
1:CA:1109:C:O2'	1:CA:1110:A:H5'	2.02	0.59
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.02	0.59
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.02	0.59
2:CB:92:TYR:CD2	2:CB:151:GLY:HA3	2.38	0.59
3:CC:82:GLU:O	3:CC:85:ARG:HB3	2.03	0.59
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.03	0.59
10:CJ:51:ARG:H	10:CJ:60:ARG:HB3	1.67	0.59
12:CL:7:LEU:HD12	17:CQ:32:TYR:CE2	2.37	0.59
13:CM:68:GLY:O	13:CM:69:GLU:HB2	2.01	0.59
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.17	0.59
28:D3:30:ARG:HH11	28:D3:30:ARG:HG3	1.67	0.59
35:DA:2285:C:H2'	35:DA:2286:A:H5'	1.84	0.59
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.38	0.59
37:DC:73:ARG:HG2	37:DC:92:ASP:OD1	2.02	0.59
43:DI:5:LEU:O	43:DI:6:LEU:HD23	2.03	0.59
45:DN:18:ALA:HB1	45:DN:21:LYS:HB2	1.83	0.59
47:DP:40:SER:C	47:DP:41:ARG:CZ	2.75	0.59
48:DQ:139:GLU:C	48:DQ:141:GLN:H	2.10	0.59
53:DV:39:LEU:HB3	53:DV:47:VAL:CG1	2.32	0.59
54:DW:29:LEU:O	54:DW:33:ARG:HG3	2.02	0.59
54:DW:37:ARG:HH11	54:DW:37:ARG:HG2	1.68	0.59
56:DY:8:LYS:HE2	56:DY:72:VAL:HG23	1.84	0.59
56:DY:81:LYS:HE2	56:DY:97:ARG:HH21	1.66	0.59
57:DZ:48:PHE:HA	57:DZ:51:ALA:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:613:C:C3'	1:AA:614:A:H5''	2.33	0.59
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.33	0.59
2:AB:84:GLU:CG	2:AB:215:LEU:HB3	2.31	0.59
2:AB:178:ARG:HH11	2:AB:178:ARG:CG	2.15	0.59
3:AC:18:TRP:C	3:AC:20:SER:H	2.10	0.59
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.33	0.59
12:AL:67:ILE:HG21	12:AL:74:LEU:CD1	2.32	0.59
20:AT:51:GLU:HA	20:AT:54:LYS:HB3	1.84	0.59
23:AX:23:A:C8	23:AX:23:A:C5'	2.81	0.59
24:AY:24:LEU:HD11	24:AY:43:TRP:HB3	1.84	0.59
35:BA:833:U:H5''	47:BP:48:PRO:CB	2.31	0.59
35:BA:1509(A):A:H2'	35:BA:1509(B):A:H8	1.68	0.59
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.02	0.59
37:BC:73:ARG:HG2	37:BC:92:ASP:OD1	2.02	0.59
38:BD:65:ILE:HD13	38:BD:65:ILE:O	2.03	0.59
38:BD:186:HIS:HB3	38:BD:189:CYS:SG	2.42	0.59
40:BF:65:TRP:CZ2	40:BF:75:HIS:HD2	2.19	0.59
47:BP:41:ARG:NE	47:BP:41:ARG:HA	2.16	0.59
50:BS:66:ALA:HA	50:BS:69:VAL:HG12	1.83	0.59
1:CA:1193:G:O2'	1:CA:1194:U:H5'	2.02	0.59
3:CC:73:PRO:O	3:CC:76:VAL:HG22	2.03	0.59
7:CG:87:VAL:HG11	7:CG:154:TYR:O	2.03	0.59
9:CI:86:VAL:HG11	9:CI:96:LEU:HD22	1.84	0.59
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.32	0.59
14:CN:42:ILE:O	14:CN:45:ARG:HB2	2.02	0.59
33:D8:27:THR:HG22	47:DP:62:LEU:CD1	2.33	0.59
35:DA:607:U:OP1	40:DF:103:LYS:HG3	2.02	0.59
35:DA:1141:U:H2'	45:DN:63:THR:CG2	2.33	0.59
35:DA:1779:U:C5	35:DA:1784:A:N7	2.62	0.59
35:DA:2297:C:O2'	35:DA:2298:A:H5'	2.03	0.59
35:DA:2418:A:H2'	35:DA:2419:U:C6	2.37	0.59
37:DC:82:LYS:HZ2	37:DC:94:VAL:HG11	1.67	0.59
40:DF:137:LYS:HA	40:DF:140:LEU:HD23	1.83	0.59
42:DH:77:LYS:HD2	42:DH:77:LYS:H	1.67	0.59
43:DI:35:LEU:N	43:DI:35:LEU:HD23	2.17	0.59
45:DN:19:GLU:HG2	45:DN:56:ASN:HD22	1.67	0.59
45:DN:33:LEU:HD23	45:DN:38:HIS:HD2	1.68	0.59
51:DT:11:GLU:OE1	51:DT:11:GLU:HA	2.03	0.59
57:DZ:94:GLU:HB3	57:DZ:95:PRO:HD2	1.83	0.59
57:DZ:102:LEU:HD21	57:DZ:124:ILE:HG12	1.84	0.59
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:42:LEU:HD12	3:AC:45:LYS:HD2	1.85	0.59
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.16	0.59
22:AW:47:U:H3'	22:AW:48:C:H5'	1.84	0.59
27:B2:35:LEU:CD1	27:B2:53:LEU:HD12	2.32	0.59
35:BA:1246:A:OP2	47:BP:18:ARG:HG3	2.01	0.59
35:BA:1665:A:C2'	35:BA:1666:G:H5'	2.33	0.59
35:BA:2418:A:H2'	35:BA:2419:U:C6	2.38	0.59
36:BB:30:C:H2'	36:BB:31:C:O4'	2.03	0.59
42:BH:85:LYS:HB2	42:BH:141:VAL:CG1	2.33	0.59
43:BI:131:LYS:HB3	43:BI:132:PRO:HA	1.85	0.59
47:BP:40:SER:HB3	47:BP:41:ARG:HH21	1.67	0.59
51:BT:20:PRO:HG2	51:BT:85:LYS:O	2.03	0.59
51:BT:28:VAL:HG13	51:BT:45:PHE:C	2.27	0.59
53:BV:22:VAL:O	53:BV:23:GLU:CB	2.51	0.59
53:BV:22:VAL:HG23	53:BV:92:THR:HG23	1.84	0.59
1:CA:568:G:N7	12:CL:2:PRO:HD3	2.18	0.59
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.85	0.59
1:CA:1445:C:N4	1:CA:1458:G:H1	2.00	0.59
2:CB:173:ALA:HA	2:CB:176:GLU:CG	2.33	0.59
5:CE:100:VAL:O	5:CE:100:VAL:HG23	2.03	0.59
6:CF:42:GLU:HG2	6:CF:42:GLU:O	2.03	0.59
16:CP:49:LEU:CD1	16:CP:73:LEU:HB3	2.32	0.59
18:CR:83:GLU:N	18:CR:83:GLU:OE1	2.35	0.59
21:CU:6:ARG:NH2	21:CU:15:ARG:HH22	2.00	0.59
35:DA:1174:A:OP1	35:DA:1174:A:H3'	2.02	0.59
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.37	0.59
38:DD:102:LYS:C	38:DD:103:ARG:HG2	2.27	0.59
38:DD:242:ARG:NH1	38:DD:242:ARG:HG2	2.17	0.59
38:DD:242:ARG:HG2	38:DD:242:ARG:HH11	1.67	0.59
39:DE:184:VAL:O	39:DE:186:GLY:N	2.33	0.59
41:DG:17:PRO:HA	41:DG:20:ILE:HD12	1.84	0.59
42:DH:83:TYR:HB3	42:DH:135:GLY:N	2.18	0.59
43:DI:2:LYS:HB2	43:DI:39:ALA:HB3	1.83	0.59
51:DT:85:LYS:HZ2	51:DT:85:LYS:C	2.09	0.59
56:DY:95:LYS:HZ3	56:DY:99:CYS:H	1.45	0.59
1:AA:277:C:O2'	1:AA:278:G:H5'	2.02	0.59
1:AA:303:A:OP1	12:AL:14:LYS:HE3	2.03	0.59
1:AA:372:C:N4	1:AA:387:U:H2'	2.17	0.59
1:AA:439:A:H2'	1:AA:441:A:H5'	1.84	0.59
1:AA:474:G:H2'	1:AA:475:G:C8	2.38	0.59
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:75:THR:HG22	5:AE:117:ASP:HB2	1.84	0.59
12:AL:7:LEU:HD12	17:AQ:32:TYR:CE2	2.38	0.59
12:AL:29:PHE:HE1	12:AL:83:ARG:HG3	1.68	0.59
18:AR:44:LEU:O	18:AR:45:SER:C	2.44	0.59
19:AS:19:VAL:HG11	19:AS:44:MET:HE2	1.84	0.59
28:B3:29:ARG:HH11	28:B3:29:ARG:HG3	1.68	0.59
33:B8:30:ARG:CZ	35:BA:2419:U:O4	2.50	0.59
33:B8:50:LEU:O	33:B8:51:ALA:CB	2.51	0.59
35:BA:1332:G:H5''	35:BA:1332:G:C8	2.35	0.59
36:BB:82:G:O2'	36:BB:83:G:H5'	2.01	0.59
38:BD:102:LYS:C	38:BD:103:ARG:HG2	2.28	0.59
38:BD:122:ASP:CG	38:BD:123:ALA:H	2.10	0.59
38:BD:182:LEU:O	38:BD:271:ILE:HG13	2.02	0.59
39:BE:48:GLN:HE22	39:BE:64:LYS:HZ3	1.51	0.59
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.17	0.59
40:BF:53:THR:HG23	40:BF:56:GLU:OE2	2.02	0.59
40:BF:143:ALA:HB1	40:BF:148:LEU:HB2	1.83	0.59
41:BG:8:LYS:HG2	41:BG:12:TYR:HE1	1.67	0.59
53:BV:5:VAL:HG21	53:BV:35:LEU:CG	2.32	0.59
57:BZ:56:VAL:HG12	57:BZ:57:ILE:N	2.17	0.59
1:CA:38:G:H22	1:CA:397:A:P	2.16	0.59
1:CA:171:A:H2'	1:CA:172:A:C8	2.37	0.59
1:CA:711:G:O2'	1:CA:712:A:H5'	2.01	0.59
1:CA:1004:A:H5''	1:CA:1025:U:N3	2.18	0.59
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.38	0.59
7:CG:15:ASP:H	7:CG:20:ASP:H	1.51	0.59
8:CH:28:ALA:HB3	8:CH:57:PRO:HB2	1.85	0.59
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.83	0.59
35:DA:184:C:H2'	35:DA:185:U:H6	1.67	0.59
35:DA:1332:G:H5''	35:DA:1332:G:C8	2.36	0.59
35:DA:2222:G:H5'	38:DD:149:PRO:HG3	1.84	0.59
35:DA:2312:U:H4'	41:DG:71:THR:CG2	2.32	0.59
39:DE:110:GLY:O	49:DR:5:LYS:CE	2.51	0.59
50:DS:14:VAL:HG12	50:DS:15:ARG:N	2.17	0.59
51:DT:28:VAL:HG21	51:DT:46:GLU:CD	2.28	0.59
51:DT:41:ARG:O	51:DT:41:ARG:HD2	2.03	0.59
57:DZ:118:GLN:O	57:DZ:120:ILE:N	2.35	0.59
1:AA:992:U:H2'	1:AA:1043:C:H42	1.67	0.59
3:AC:134:ILE:HG21	3:AC:168:ALA:HB3	1.85	0.59
3:AC:134:ILE:CG2	3:AC:168:ALA:HB3	2.32	0.59
8:AH:12:ARG:HH12	8:AH:26:VAL:HA	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:50:ILE:HD11	14:AN:41:ARG:NH1	2.17	0.59
16:AP:21:VAL:HG12	16:AP:34:GLU:O	2.03	0.59
16:AP:40:ASP:HB3	16:AP:48:TRP:HB3	1.84	0.59
22:AW:9:G:H1'	22:AW:45:G:C2'	2.33	0.59
25:B0:56:ASP:O	25:B0:57:PHE:HB2	2.03	0.59
29:B4:52:THR:CG2	29:B4:53:GLU:H	2.06	0.59
33:B8:27:THR:HA	47:BP:62:LEU:HD11	1.83	0.59
35:BA:557:U:H2'	35:BA:558:G:C8	2.37	0.59
35:BA:862:G:H2'	35:BA:863:A:O4'	2.03	0.59
35:BA:903:C:O2'	35:BA:904:C:H5''	2.02	0.59
35:BA:1490:A:C5'	35:BA:1490:A:H8	2.11	0.59
38:BD:34:VAL:O	38:BD:64:ILE:HG22	2.02	0.59
38:BD:70:TRP:HZ3	38:BD:146:GLU:CD	2.11	0.59
38:BD:267:SER:O	38:BD:269:PHE:N	2.36	0.59
40:BF:205:ARG:C	40:BF:206:ILE:HD13	2.28	0.59
42:BH:43:VAL:CG1	42:BH:52:VAL:HG22	2.33	0.59
47:BP:63:PRO:O	47:BP:64:LYS:C	2.45	0.59
48:BQ:1:MET:HE3	48:BQ:3:MET:HE2	1.84	0.59
49:BR:84:ALA:HB3	49:BR:85:PRO:HD3	1.85	0.59
52:BU:86:ALA:HB1	52:BU:88:ILE:HG23	1.85	0.59
52:BU:106:PHE:O	52:BU:110:VAL:HG23	2.02	0.59
56:BY:95:LYS:NZ	56:BY:99:CYS:N	2.46	0.59
56:BY:97:ARG:HB2	56:BY:97:ARG:HH11	1.68	0.59
1:CA:35:G:N3	12:CL:115:SER:CA	2.65	0.59
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.37	0.59
1:CA:1206:G:HO2'	1:CA:1207:G:P	2.26	0.59
2:CB:118:LEU:HD11	2:CB:141:GLU:OE2	2.03	0.59
3:CC:132:ARG:HD3	3:CC:136:GLN:NE2	2.17	0.59
4:CD:96:LEU:HB3	4:CD:139:ARG:HH12	1.67	0.59
31:D6:12:GLU:N	31:D6:12:GLU:CD	2.60	0.59
33:D8:48:PHE:C	33:D8:49:VAL:HG13	2.28	0.59
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.03	0.59
35:DA:2133:G:H2'	35:DA:2157:G:N2	2.18	0.59
35:DA:2443:C:O2'	35:DA:2444:G:H5'	2.02	0.59
37:DC:34:THR:HG22	37:DC:216:THR:HA	1.85	0.59
39:DE:68:ALA:C	39:DE:70:ALA:H	2.11	0.59
42:DH:85:LYS:HB2	42:DH:141:VAL:CG1	2.33	0.59
47:DP:23:PRO:HD2	47:DP:33:ARG:NE	2.18	0.59
56:DY:17:SER:CA	56:DY:71:LYS:HE2	2.32	0.59
1:AA:29:G:O2'	1:AA:30:U:H5'	2.03	0.59
1:AA:59:A:H5''	1:AA:60:A:H5''	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:253:U:H2'	1:AA:254:G:H8	1.67	0.59
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.37	0.59
4:AD:108:LEU:HD23	4:AD:110:PHE:CE1	2.38	0.59
11:AK:99:GLN:HG2	11:AK:105:VAL:HG21	1.85	0.59
12:AL:30:ARG:HB3	12:AL:82:ILE:CG2	2.33	0.59
19:AS:72:GLY:C	19:AS:74:PHE:H	2.09	0.59
22:AV:28:C:H2'	22:AV:29:G:C8	2.38	0.59
23:AX:22:A:N3	23:AX:22:A:O4'	2.36	0.59
35:BA:1141:U:H2'	45:BN:63:THR:CG2	2.33	0.59
35:BA:1721:G:H8	35:BA:1741:A:H62	1.49	0.59
35:BA:2732:G:C2'	35:BA:2733:A:H5'	2.33	0.59
38:BD:21:PHE:HB3	38:BD:24:ILE:HG12	1.85	0.59
40:BF:101:LEU:O	40:BF:106:ARG:NH1	2.35	0.59
41:BG:91:ARG:HG2	41:BG:92:VAL:N	2.17	0.59
51:BT:48:ILE:H	51:BT:48:ILE:HD12	1.68	0.59
53:BV:39:LEU:C	53:BV:40:LEU:HD23	2.28	0.59
1:CA:829:G:O2'	1:CA:830:G:H5'	2.02	0.59
2:CB:51:LEU:HD23	2:CB:201:ILE:HD13	1.85	0.59
2:CB:112:VAL:C	2:CB:114:ARG:H	2.10	0.59
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.14	0.59
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	1.84	0.59
13:CM:93:ARG:HB3	13:CM:94:ARG:HH11	1.67	0.59
16:CP:51:VAL:CG1	16:CP:52:ASP:N	2.66	0.59
16:CP:82:GLN:HG2	16:CP:82:GLN:O	2.03	0.59
17:CQ:11:VAL:O	17:CQ:12:SER:HB2	2.02	0.59
18:CR:24:ALA:O	18:CR:26:LEU:N	2.36	0.59
19:CS:21:GLU:HG3	19:CS:22:LEU:CD2	2.33	0.59
22:CW:76:A:O2'	35:DA:2394:C:N3	2.27	0.59
32:D7:48:LYS:N	32:D7:48:LYS:HE2	2.18	0.59
35:DA:867:C:H42	35:DA:912:C:C2'	2.16	0.59
35:DA:1684:C:O2'	35:DA:1685:C:H5'	2.03	0.59
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.30	0.59
35:DA:2769:C:H2'	35:DA:2770:G:C8	2.37	0.59
35:DA:2801(A):A:H4'	35:DA:2802:G:H2'	1.85	0.59
39:DE:111:ARG:HD3	49:DR:2:ARG:NH2	2.17	0.59
39:DE:171:GLU:HB3	39:DE:185:LYS:HG2	1.85	0.59
39:DE:179:GLU:HB2	39:DE:181:LEU:HD13	1.85	0.59
47:DP:34:GLY:O	47:DP:35:HIS:HB2	2.02	0.59
50:DS:85:VAL:HG23	50:DS:106:ARG:HG3	1.84	0.59
51:DT:128:GLU:CD	51:DT:129:ARG:N	2.61	0.59
55:DX:24:GLY:O	55:DX:83:VAL:HG22	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:82:ARG:HB2	57:DZ:82:ARG:HH11	1.68	0.59
1:AA:940:C:H2'	1:AA:941:G:H8	1.68	0.58
1:AA:962:C:H2'	1:AA:963:G:H8	1.67	0.58
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.67	0.58
3:AC:82:GLU:O	3:AC:85:ARG:HB3	2.02	0.58
8:AH:51:VAL:HG21	8:AH:60:ARG:HH11	1.67	0.58
9:AI:16:ARG:HE	9:AI:64:THR:HB	1.67	0.58
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.33	0.58
10:AJ:96:ILE:H	10:AJ:96:ILE:CD1	2.12	0.58
16:AP:6:LEU:HB3	16:AP:17:TYR:HD2	1.67	0.58
27:B2:37:PHE:O	27:B2:41:ILE:HG23	2.03	0.58
34:B9:7:VAL:HG12	34:B9:34:GLN:NE2	2.17	0.58
41:BG:82:LEU:HG	41:BG:83:ARG:H	1.68	0.58
47:BP:75:ILE:HD12	47:BP:75:ILE:N	2.18	0.58
52:BU:76:TYR:OH	52:BU:93:LYS:HE3	2.02	0.58
56:BY:81:LYS:HD3	56:BY:96:ILE:HG21	1.84	0.58
1:CA:401:C:C6	1:CA:401:C:C4'	2.86	0.58
1:CA:976:G:OP1	14:CN:31:ARG:HB3	2.03	0.58
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.84	0.58
2:CB:155:LEU:HD21	2:CB:159:PRO:HG3	1.84	0.58
5:CE:67:VAL:HG13	5:CE:69:VAL:CG2	2.32	0.58
5:CE:103:GLY:C	5:CE:106:PRO:HD2	2.28	0.58
8:CH:63:LEU:HB2	8:CH:65:TYR:CE1	2.38	0.58
8:CH:91:ARG:HH11	8:CH:91:ARG:CG	2.15	0.58
12:CL:37:VAL:O	12:CL:38:ARG:CG	2.51	0.58
18:CR:88:LYS:HD3	18:CR:88:LYS:C	2.28	0.58
19:CS:72:GLY:C	19:CS:74:PHE:H	2.11	0.58
22:CV:21:A:N6	22:CV:46:G:H2'	2.18	0.58
30:D5:56:LYS:HG3	30:D5:59:GLU:OE1	2.03	0.58
33:D8:46:ARG:HG2	33:D8:46:ARG:NH1	2.18	0.58
33:D8:48:PHE:O	33:D8:49:VAL:HG13	2.03	0.58
33:D8:56:GLU:HG3	33:D8:56:GLU:O	2.03	0.58
35:DA:1450(A):C:H2'	35:DA:1451:C:C6	2.37	0.58
35:DA:1915:U:H2'	35:DA:1916:A:O5'	2.03	0.58
35:DA:1999:C:H5''	35:DA:2723:C:O2'	2.02	0.58
35:DA:2876:G:O5'	51:DT:3:ARG:HA	2.02	0.58
42:DH:43:VAL:CG1	42:DH:52:VAL:HG22	2.33	0.58
46:DO:24:VAL:HG21	46:DO:32:TYR:O	2.01	0.58
47:DP:64:LYS:O	47:DP:66:GLY:N	2.36	0.58
51:DT:2:ASN:O	51:DT:3:ARG:C	2.46	0.58
51:DT:125:ARG:C	51:DT:127:ALA:H	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:28:LYS:CA	56:DY:38:ILE:HG22	2.30	0.58
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.85	0.58
2:AB:142:LEU:HA	2:AB:145:LEU:HB2	1.85	0.58
3:AC:103:VAL:HG12	3:AC:103:VAL:O	2.03	0.58
3:AC:162:GLN:CA	23:AX:23:A:N6	2.65	0.58
8:AH:121:ASP:HB2	8:AH:125:ARG:NH1	2.16	0.58
9:AI:16:ARG:HH21	9:AI:64:THR:CG2	2.16	0.58
11:AK:12:ARG:HG2	11:AK:13:GLN:N	2.17	0.58
12:AL:67:ILE:HG21	12:AL:74:LEU:HD12	1.84	0.58
13:AM:68:GLY:O	13:AM:69:GLU:HB2	2.03	0.58
15:AO:66:LEU:HD12	15:AO:66:LEU:N	2.18	0.58
26:B1:62:VAL:HG22	26:B1:63:ALA:N	2.16	0.58
35:BA:832:G:H21	47:BP:53:GLY:HA3	1.68	0.58
35:BA:1533:G:C2'	35:BA:1543:C:OP1	2.50	0.58
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.65	0.58
35:BA:2297:C:O2'	35:BA:2298:A:H5'	2.04	0.58
35:BA:2302:G:H1'	41:BG:128:ARG:CZ	2.32	0.58
47:BP:66:GLY:O	47:BP:67:MET:CB	2.51	0.58
48:BQ:133:ARG:HG2	48:BQ:134:ARG:H	1.67	0.58
50:BS:30:ARG:HH22	50:BS:62:LYS:HD2	1.69	0.58
52:BU:74:LEU:HD12	52:BU:74:LEU:N	2.14	0.58
53:BV:39:LEU:HD12	53:BV:50:PRO:O	2.03	0.58
54:BW:110:LYS:HG3	54:BW:111:HIS:N	2.17	0.58
57:BZ:171:ILE:HG13	57:BZ:172:ALA:H	1.67	0.58
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.02	0.58
9:CI:16:ARG:HH21	9:CI:64:THR:CG2	2.15	0.58
10:CJ:38:ILE:HG23	10:CJ:71:LEU:HB3	1.85	0.58
11:CK:22:HIS:HB3	11:CK:29:ILE:HG22	1.84	0.58
14:CN:7:ILE:O	14:CN:11:LYS:HB2	2.03	0.58
16:CP:21:VAL:HG12	16:CP:34:GLU:O	2.03	0.58
58:CX:16:A:C2'	58:CX:17:U:H5'	2.33	0.58
35:DA:1771:C:O2'	35:DA:1786:A:H8	1.86	0.58
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.02	0.58
35:DA:1991:U:H2'	35:DA:1992:G:H5''	1.85	0.58
35:DA:2177:C:H5'	37:DC:211:SER:CB	2.33	0.58
38:DD:147:LEU:HD12	38:DD:155:LEU:HD21	1.85	0.58
40:DF:199:TRP:O	40:DF:203:GLN:HG2	2.02	0.58
45:DN:3:THR:O	45:DN:4:TYR:C	2.45	0.58
45:DN:57:ALA:N	45:DN:124:ALA:HA	2.13	0.58
47:DP:13:ASN:O	47:DP:15:ARG:N	2.36	0.58
47:DP:30:THR:HG22	47:DP:31:ALA:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:108:LYS:C	47:DP:110:TYR:H	2.11	0.58
48:DQ:108:GLY:HA3	57:DZ:116:VAL:HG11	1.85	0.58
51:DT:28:VAL:O	51:DT:29:ARG:NE	2.34	0.58
51:DT:32:TYR:CD2	51:DT:81:PRO:O	2.55	0.58
57:DZ:163:LEU:H	57:DZ:163:LEU:HD23	1.67	0.58
1:AA:660:G:H2'	1:AA:661:G:H8	1.68	0.58
1:AA:1069:C:H41	1:AA:1094:G:H1	1.50	0.58
2:AB:21:ARG:HH21	2:AB:38:GLY:HA3	1.67	0.58
6:AF:97:PHE:CD2	18:AR:31:LEU:HD21	2.38	0.58
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.85	0.58
10:AJ:44:VAL:HG11	10:AJ:46:ARG:CZ	2.34	0.58
14:AN:4:LYS:O	14:AN:7:ILE:HG12	2.04	0.58
22:AW:41:C:H2'	22:AW:42:G:C8	2.36	0.58
27:B2:3:LEU:HB2	35:BA:98:G:OP1	2.04	0.58
35:BA:81:G:H21	56:BY:2:ARG:NH1	2.01	0.58
35:BA:1165:U:H2'	35:BA:1166:C:C6	2.38	0.58
35:BA:1827:C:O2'	35:BA:1828:G:H5'	2.03	0.58
35:BA:2334:G:H5'	50:BS:13:ARG:HD3	1.84	0.58
35:BA:2611:U:H5'	35:BA:2611:U:H6	1.68	0.58
38:BD:80:ALA:O	38:BD:81:ALA:HB2	2.03	0.58
38:BD:147:LEU:HD13	38:BD:155:LEU:HD11	1.84	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:N	2.16	0.58
40:BF:2:LYS:O	40:BF:4:VAL:N	2.35	0.58
40:BF:137:LYS:HA	40:BF:140:LEU:HD23	1.85	0.58
43:BI:123:LEU:CD1	43:BI:144:VAL:HG22	2.33	0.58
49:BR:29:LEU:O	49:BR:75:LEU:HD21	2.02	0.58
51:BT:28:VAL:HG21	51:BT:46:GLU:CD	2.27	0.58
54:BW:88:ARG:HB2	54:BW:92:ARG:HB2	1.85	0.58
56:BY:28:LYS:C	56:BY:38:ILE:HG22	2.28	0.58
1:CA:15:G:H1'	5:CE:19:MET:SD	2.43	0.58
1:CA:1069:C:N4	1:CA:1094:G:H22	2.00	0.58
2:CB:155:LEU:CD2	2:CB:159:PRO:HG3	2.33	0.58
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.03	0.58
8:CH:12:ARG:HH12	8:CH:26:VAL:HA	1.68	0.58
13:CM:110:ARG:HG2	13:CM:110:ARG:HH11	1.68	0.58
16:CP:40:ASP:HB3	16:CP:48:TRP:HB3	1.85	0.58
17:CQ:78:GLU:O	17:CQ:78:GLU:HG3	2.03	0.58
27:D2:47:ASN:HD22	35:DA:94(A):G:H21	1.49	0.58
33:D8:29:LYS:O	33:D8:30:ARG:HG2	2.04	0.58
35:DA:279:C:N4	35:DA:361:G:H1	2.02	0.58
35:DA:1278:A:H5''	49:DR:36:THR:HG22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1509(A):A:H2'	35:DA:1509(B):A:H8	1.68	0.58
35:DA:2875:C:O2'	51:DT:5:ALA:HB3	2.02	0.58
38:DD:28:GLU:H	38:DD:29:PRO:HD2	1.68	0.58
47:DP:126:VAL:HG22	47:DP:145:PRO:HG3	1.85	0.58
50:DS:68:GLN:HA	50:DS:71:ARG:NH1	2.17	0.58
50:DS:87:PHE:HE2	50:DS:92:TYR:HD2	1.49	0.58
51:DT:53:ARG:HH11	51:DT:53:ARG:CB	2.10	0.58
54:DW:1:MET:HE3	54:DW:2:GLU:N	2.18	0.58
1:AA:1027:C:H2'	1:AA:1028:C:C5	2.37	0.58
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.04	0.58
1:AA:1305:G:H8	1:AA:1305:G:OP2	1.86	0.58
3:AC:30:ARG:O	3:AC:34:LEU:HG	2.04	0.58
4:AD:184:LYS:HB3	4:AD:184:LYS:HZ3	1.65	0.58
6:AF:42:GLU:O	6:AF:44:GLY:N	2.36	0.58
13:AM:98:VAL:O	13:AM:99:ARG:HB2	2.04	0.58
15:AO:68:ARG:O	15:AO:71:GLN:HB3	2.03	0.58
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.18	0.58
17:AQ:11:VAL:O	17:AQ:12:SER:HB2	2.04	0.58
17:AQ:35:VAL:O	17:AQ:36:ILE:HG23	2.03	0.58
20:AT:10:LEU:HD22	20:AT:12:ALA:CB	2.30	0.58
22:AW:35:A:H2'	22:AW:36:U:O4'	2.02	0.58
26:B1:71:TYR:HE1	43:BI:27:ARG:CD	2.15	0.58
35:BA:782:A:C2	38:BD:226:MET:HE2	2.39	0.58
35:BA:1789:A:OP1	38:BD:222:ARG:HG3	2.03	0.58
35:BA:1997:G:O2'	35:BA:1998:G:H5'	2.04	0.58
35:BA:2653:U:H3'	35:BA:2654:A:C8	2.38	0.58
41:BG:71:THR:HG22	41:BG:89:GLY:HA3	1.85	0.58
43:BI:10:GLU:O	43:BI:11:ASN:HB3	2.03	0.58
47:BP:140:ALA:O	47:BP:141:ALA:HB2	2.03	0.58
48:BQ:139:GLU:C	48:BQ:141:GLN:H	2.10	0.58
1:CA:417:C:O2'	1:CA:418:C:H5'	2.03	0.58
1:CA:617:G:H4'	16:CP:44:THR:O	2.04	0.58
1:CA:729:A:H2'	1:CA:730:G:H8	1.69	0.58
1:CA:1069:C:H41	1:CA:1094:G:H1	1.52	0.58
1:CA:1078:U:H4'	5:CE:84:PHE:HZ	1.68	0.58
2:CB:84:GLU:CG	2:CB:215:LEU:HB3	2.31	0.58
4:CD:15:GLU:HG3	4:CD:63:LYS:HE2	1.85	0.58
9:CI:53:VAL:HG23	9:CI:54:ASP:N	2.18	0.58
11:CK:88:GLY:C	11:CK:90:GLY:N	2.61	0.58
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.29	0.58
20:CT:13:LEU:HD12	20:CT:14:LYS:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:55:U:O2'	22:CV:56:C:H5	1.86	0.58
27:D2:38:GLN:NE2	27:D2:44:LEU:HD22	2.17	0.58
35:DA:272(B):G:H1	35:DA:366:C:H42	1.48	0.58
36:DB:55:U:H2'	36:DB:56:G:H8	1.66	0.58
40:DF:2:LYS:NZ	40:DF:119:ARG:HG3	2.19	0.58
41:DG:39:ILE:HG13	41:DG:155:MET:CG	2.34	0.58
42:DH:64:LEU:C	42:DH:66:GLY:N	2.59	0.58
43:DI:10:GLU:O	43:DI:11:ASN:HB3	2.03	0.58
47:DP:40:SER:O	47:DP:41:ARG:NH2	2.35	0.58
47:DP:58:THR:O	47:DP:61:ARG:NE	2.35	0.58
48:DQ:27:VAL:HG23	48:DQ:137:TYR:CE1	2.37	0.58
53:DV:34:GLU:O	53:DV:34:GLU:HG3	2.03	0.58
56:DY:79:CYS:O	56:DY:80:GLY:C	2.45	0.58
1:AA:8:A:H5'	5:AE:120:THR:O	2.03	0.58
1:AA:189(K):U:H2'	1:AA:189(L):G:H8	1.67	0.58
1:AA:532:A:H3'	1:AA:533:A:H5''	1.86	0.58
1:AA:973:G:C1'	10:AJ:55:LYS:HG2	2.33	0.58
1:AA:1031:G:H2'	1:AA:1032:G:O4'	2.03	0.58
1:AA:1442(A):G:C3'	1:AA:1442(B):A:H5''	2.33	0.58
2:AB:92:TYR:CD2	2:AB:151:GLY:HA3	2.39	0.58
10:AJ:50:ILE:HG23	10:AJ:60:ARG:NH1	2.19	0.58
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.03	0.58
18:AR:66:LEU:HG	18:AR:70:ILE:CD1	2.32	0.58
22:AV:54:U:H3'	22:AV:55:U:O4'	2.04	0.58
35:BA:2222:G:H5'	38:BD:149:PRO:HG3	1.85	0.58
35:BA:2580:U:H5'	39:BE:131:ALA:HB2	1.84	0.58
35:BA:2728:U:O2'	35:BA:2729:G:H5'	2.03	0.58
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.02	0.58
37:BC:82:LYS:NZ	37:BC:86:ALA:HB1	2.18	0.58
38:BD:198:ASN:ND2	38:BD:198:ASN:C	2.58	0.58
38:BD:239:ARG:HG2	38:BD:239:ARG:NH2	2.10	0.58
39:BE:48:GLN:HE22	39:BE:64:LYS:NZ	2.01	0.58
41:BG:41:GLN:HE21	41:BG:60:LEU:HD13	1.69	0.58
51:BT:27:THR:O	51:BT:28:VAL:HG23	2.03	0.58
51:BT:36:GLU:O	51:BT:38:ASN:N	2.35	0.58
53:BV:39:LEU:HB3	53:BV:47:VAL:CG1	2.33	0.58
57:BZ:6:LYS:HE2	57:BZ:43:GLU:OE2	2.04	0.58
1:CA:987:G:N2	1:CA:1219:U:H3	2.01	0.58
1:CA:992:U:H5''	1:CA:1043:C:H41	1.69	0.58
1:CA:1305:G:H8	1:CA:1305:G:OP2	1.85	0.58
1:CA:1305:G:H22	1:CA:1331:G:HI'	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1373:G:C5'	7:CG:36:LYS:HB2	2.33	0.58
1:CA:1413:A:N6	1:CA:1488:G:N2	2.52	0.58
3:CC:90:GLU:HA	3:CC:93:LYS:NZ	2.18	0.58
5:CE:151:LEU:HD22	8:CH:67:PRO:HD2	1.84	0.58
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.34	0.58
12:CL:40:VAL:CG2	12:CL:52:VAL:HG21	2.33	0.58
17:CQ:65:ILE:HD12	17:CQ:65:ILE:H	1.68	0.58
26:D1:82:LEU:HD22	26:D1:82:LEU:H	1.68	0.58
32:D7:19:ARG:HH11	32:D7:19:ARG:HG2	1.68	0.58
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.33	0.58
35:DA:2408:U:H2'	35:DA:2409:G:C8	2.39	0.58
35:DA:2611:U:H5'	35:DA:2611:U:H6	1.68	0.58
43:DI:8:PRO:HB3	43:DI:14:ASP:HA	1.86	0.58
57:DZ:102:LEU:HD11	57:DZ:124:ILE:CG2	2.33	0.58
1:AA:233:C:O2'	1:AA:234:C:H5'	2.03	0.58
1:AA:936:C:H2'	1:AA:937:A:H8	1.69	0.58
1:AA:947:G:H2'	1:AA:948:C:C6	2.38	0.58
1:AA:957:U:H3	1:AA:960:U:H5''	1.68	0.58
3:AC:134:ILE:HG23	3:AC:151:VAL:HB	1.86	0.58
7:AG:109:ASN:HA	7:AG:119:ARG:HE	1.69	0.58
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.04	0.58
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.33	0.58
15:AO:67:LEU:HB3	15:AO:78:TYR:HE1	1.68	0.58
35:BA:1692:U:O2'	35:BA:1693:U:H2'	2.03	0.58
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.03	0.58
35:BA:2285:C:H2'	35:BA:2286:A:H5'	1.85	0.58
35:BA:2801(A):A:H4'	35:BA:2802:G:H2'	1.85	0.58
40:BF:16:GLY:O	40:BF:17:ARG:HG3	2.03	0.58
40:BF:83:PHE:O	40:BF:84:VAL:CB	2.51	0.58
42:BH:94:TYR:CD2	42:BH:107:VAL:HB	2.38	0.58
45:BN:15:LEU:HD23	45:BN:16:ILE:N	2.19	0.58
46:BO:104:ARG:HB3	46:BO:104:ARG:CZ	2.34	0.58
53:BV:81:TYR:C	53:BV:82:ARG:HD2	2.28	0.58
56:BY:75:ILE:HG22	56:BY:79:CYS:C	2.28	0.58
1:CA:158:G:H2'	1:CA:159:G:H8	1.68	0.58
1:CA:447:G:C6	1:CA:485:G:H1'	2.39	0.58
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.68	0.58
2:CB:19:HIS:HD2	2:CB:204:ASN:HA	1.68	0.58
2:CB:101:MET:HB2	2:CB:102:LEU:HD12	1.86	0.58
8:CH:19:VAL:HG23	8:CH:21:LYS:HG3	1.83	0.58
11:CK:17:GLY:H	11:CK:80:VAL:HG12	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:51:ALA:C	33:D8:53:PRO:HD2	2.27	0.58
33:D8:52:LYS:HE2	35:DA:834:C:H4'	1.86	0.58
35:DA:587:C:C5	47:DP:33:ARG:HD3	2.39	0.58
35:DA:764:A:H2	38:DD:219:PRO:HG3	1.69	0.58
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.67	0.58
35:DA:1973:G:H2'	35:DA:1974:C:H6	1.69	0.58
35:DA:2091:U:C3'	35:DA:2092:U:H5''	2.31	0.58
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.38	0.58
39:DE:119:ARG:CD	39:DE:120:TRP:NE1	2.66	0.58
39:DE:181:LEU:HD21	51:DT:7:ILE:CG2	2.34	0.58
40:DF:22:ALA:HB1	40:DF:26:ALA:HB2	1.85	0.58
40:DF:116:ASP:O	40:DF:120:GLU:HG3	2.03	0.58
42:DH:94:TYR:CD2	42:DH:107:VAL:HB	2.38	0.58
49:DR:32:GLY:O	49:DR:115:GLU:HA	2.04	0.58
53:DV:19:LYS:HE2	53:DV:19:LYS:HA	1.85	0.58
55:DX:12:VAL:HG23	55:DX:17:ALA:HB1	1.86	0.58
57:DZ:5:LEU:HA	57:DZ:6:LYS:HZ1	1.69	0.58
1:AA:533:A:H1'	1:AA:534:U:OP1	2.02	0.58
1:AA:764:C:H2'	1:AA:765:G:C8	2.38	0.58
5:AE:79:GLU:CD	5:AE:79:GLU:H	2.10	0.58
5:AE:139:LEU:C	5:AE:141:GLN:H	2.12	0.58
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.15	0.58
11:AK:17:GLY:H	11:AK:80:VAL:HG12	1.69	0.58
14:AN:33:VAL:HG12	14:AN:40:CYS:CB	2.32	0.58
20:AT:54:LYS:HA	20:AT:57:ARG:NH2	2.19	0.58
23:AX:21:C:C6	23:AX:21:C:C4'	2.84	0.58
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.69	0.58
35:BA:241:A:H5'	35:BA:243:U:C1'	2.34	0.58
35:BA:272(B):G:H1	35:BA:366:C:H42	1.50	0.58
35:BA:1266:G:O5'	54:BW:15:ARG:NH2	2.36	0.58
35:BA:1692:U:H2'	35:BA:1694:C:C5	2.38	0.58
35:BA:2322:A:H2'	35:BA:2323:G:O4'	2.03	0.58
35:BA:2533:A:C2'	35:BA:2534:A:H5'	2.34	0.58
35:BA:2792:G:H1	35:BA:2804:C:N4	2.01	0.58
46:BO:25:LEU:HD12	46:BO:38:VAL:HG12	1.85	0.58
47:BP:62:LEU:HD13	47:BP:62:LEU:N	2.19	0.58
48:BQ:24:GLY:O	48:BQ:102:VAL:HG23	2.04	0.58
49:BR:10:LEU:CD2	49:BR:17:ARG:HD2	2.33	0.58
1:CA:393:A:O2'	1:CA:394:G:H5'	2.04	0.58
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.03	0.58
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:4:LEU:HD12	28:D3:4:LEU:N	2.18	0.58
33:D8:29:LYS:HD3	33:D8:44:LYS:HG2	1.86	0.58
35:DA:241:A:H5'	35:DA:243:U:C1'	2.33	0.58
35:DA:364:C:C2'	35:DA:365:C:H5''	2.34	0.58
35:DA:510:C:H2'	35:DA:511:U:O4'	2.04	0.58
35:DA:1692:U:H2'	35:DA:1694:C:C5	2.39	0.58
35:DA:1826:G:C4'	38:DD:242:ARG:HE	2.16	0.58
35:DA:2142:C:H42	35:DA:2148:G:H1	1.51	0.58
35:DA:2646:C:OP2	35:DA:2732:G:O2'	2.15	0.58
35:DA:2730:C:O2'	35:DA:2731:G:H5'	2.01	0.58
35:DA:2821:A:OP2	39:DE:110:GLY:CA	2.51	0.58
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	2.19	0.58
41:DG:5:VAL:CG1	41:DG:6:ALA:H	2.16	0.58
43:DI:123:LEU:HD13	43:DI:142:VAL:O	2.03	0.58
45:DN:24:GLY:C	45:DN:26:LEU:N	2.59	0.58
48:DQ:51:ARG:HH11	48:DQ:51:ARG:HG2	1.68	0.58
56:DY:27:VAL:HG12	56:DY:29:GLU:OE1	2.03	0.58
2:AB:162:ILE:O	2:AB:162:ILE:HD12	2.04	0.58
3:AC:15:THR:HG22	3:AC:16:ARG:N	2.18	0.58
3:AC:94:LEU:HG	3:AC:95:THR:H	1.69	0.58
5:AE:67:VAL:HG13	5:AE:69:VAL:CG2	2.34	0.58
7:AG:87:VAL:HG11	7:AG:154:TYR:O	2.03	0.58
11:AK:57:THR:HG23	11:AK:60:ALA:HB2	1.85	0.58
16:AP:82:GLN:HG2	16:AP:82:GLN:O	2.04	0.58
20:AT:39:LYS:O	20:AT:43:LEU:HG	2.04	0.58
24:AY:41:LYS:HB3	24:AY:43:TRP:CH2	2.38	0.58
28:B3:30:ARG:HG3	28:B3:30:ARG:HH11	1.68	0.58
35:BA:747:U:O2	35:BA:2014:A:H1'	2.04	0.58
35:BA:1478:G:O2'	35:BA:1479:G:H5'	2.03	0.58
35:BA:2177:C:H5'	37:BC:211:SER:CB	2.34	0.58
42:BH:77:LYS:H	42:BH:77:LYS:HD2	1.67	0.58
42:BH:137:ASP:HB2	42:BH:140:LYS:CE	2.34	0.58
44:BJ:27:UNK:HA	44:BJ:113:UNK:HA	1.84	0.58
45:BN:17:ASP:O	45:BN:19:GLU:N	2.37	0.58
45:BN:59:LYS:O	45:BN:60:ILE:C	2.47	0.58
48:BQ:130:LYS:NZ	57:BZ:80:ARG:HD2	2.19	0.58
56:BY:13:VAL:HG23	56:BY:73:ARG:O	2.03	0.58
1:CA:46:G:O2'	1:CA:365:U:H1'	2.04	0.58
1:CA:533:A:H1'	1:CA:534:U:OP1	2.03	0.58
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.19	0.58
1:CA:1446:U:O2'	1:CA:1447:A:H2'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1494:G:H2'	1:CA:1495:U:C6	2.38	0.58
6:CF:74:ASP:O	6:CF:77:ARG:HB3	2.04	0.58
9:CI:10:ARG:NH2	9:CI:108:VAL:HG12	2.17	0.58
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.17	0.58
25:D0:51:VAL:CG2	25:D0:81:VAL:HG23	2.34	0.58
31:D6:35:GLU:HB3	31:D6:51:GLU:CB	2.25	0.58
35:DA:1665:A:H4'	46:DO:67:LYS:HB2	1.84	0.58
35:DA:1766:U:H2'	35:DA:1767:C:C6	2.35	0.58
35:DA:1887:C:H3'	35:DA:1888:G:H5''	1.84	0.58
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.37	0.58
37:DC:82:LYS:NZ	37:DC:86:ALA:HB1	2.18	0.58
38:DD:54:ARG:HH11	38:DD:54:ARG:CG	2.17	0.58
38:DD:93:ALA:HB3	38:DD:105:ILE:HG23	1.86	0.58
39:DE:12:THR:O	39:DE:23:VAL:HG22	2.02	0.58
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.18	0.58
40:DF:162:LEU:HD22	40:DF:162:LEU:N	2.18	0.58
41:DG:150:ASP:HB2	41:DG:153:ARG:HH12	1.69	0.58
44:DJ:97:UNK:HA	44:DJ:132:UNK:C	2.34	0.58
51:DT:27:THR:O	51:DT:28:VAL:HG23	2.03	0.58
53:DV:2:PHE:HB2	53:DV:42:GLY:N	2.18	0.58
57:DZ:29:TYR:HB3	57:DZ:34:ASN:ND2	2.13	0.58
57:DZ:76:LEU:HD23	57:DZ:82:ARG:C	2.29	0.58
1:AA:224:C:H2'	1:AA:225:C:H6	1.68	0.58
1:AA:518:C:H2'	1:AA:530:G:C8	2.39	0.58
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.03	0.58
3:AC:75:VAL:O	3:AC:83:ARG:HG2	2.03	0.58
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.33	0.58
9:AI:18:PHE:O	9:AI:61:ALA:HA	2.04	0.58
11:AK:84:VAL:HG23	11:AK:110:ASP:OD1	2.04	0.58
13:AM:113:PRO:O	13:AM:115:LYS:HE2	2.04	0.58
15:AO:6:GLU:N	15:AO:6:GLU:OE1	2.36	0.58
29:B4:6:HIS:CD2	41:BG:66:GLN:HA	2.39	0.58
30:B5:56:LYS:HG3	30:B5:59:GLU:OE1	2.04	0.58
35:BA:528:A:C2	35:BA:2042:A:H2'	2.39	0.58
35:BA:1126:A:OP1	35:BA:1126:A:H8	1.86	0.58
35:BA:1766:U:H2'	35:BA:1767:C:C6	2.38	0.58
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.26	0.58
42:BH:64:LEU:O	42:BH:66:GLY:N	2.30	0.58
47:BP:79:ARG:HG3	47:BP:110:TYR:CD2	2.38	0.58
47:BP:108:LYS:O	47:BP:110:TYR:N	2.35	0.58
1:CA:37:U:H2'	1:CA:38:G:H8	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:836:G:C6	1:CA:837:G:N7	2.72	0.58
1:CA:839:U:O2	1:CA:839:U:C3'	2.52	0.58
1:CA:1373:G:H5''	7:CG:36:LYS:CB	2.31	0.58
1:CA:1416:G:O2'	1:CA:1417:G:H5'	2.04	0.58
3:CC:103:VAL:O	3:CC:103:VAL:HG12	2.02	0.58
4:CD:155:LEU:HB2	4:CD:158:ILE:HB	1.85	0.58
5:CE:14:ARG:HG3	5:CE:16:THR:HG23	1.84	0.58
8:CH:97:VAL:HG13	8:CH:98:LYS:H	1.68	0.58
13:CM:26:GLY:O	13:CM:30:ALA:HB2	2.04	0.58
32:D7:12:ARG:HD3	32:D7:46:VAL:HG21	1.85	0.58
35:DA:154(A):C:H5	35:DA:171:G:H1	1.51	0.58
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.34	0.58
35:DA:1547:C:O2'	35:DA:1548:C:H5'	2.03	0.58
35:DA:2537:U:H2'	35:DA:2538:C:H6	1.69	0.58
36:DB:30:C:H2'	36:DB:31:C:O4'	2.04	0.58
40:DF:16:GLY:O	40:DF:17:ARG:HG3	2.04	0.58
43:DI:79:ILE:C	43:DI:81:VAL:H	2.11	0.58
43:DI:131:LYS:HB3	43:DI:132:PRO:HA	1.84	0.58
47:DP:101:VAL:HG12	47:DP:107:LYS:N	2.19	0.58
49:DR:45:ARG:HD3	49:DR:97:VAL:HG11	1.86	0.58
57:DZ:103:ARG:HH11	57:DZ:136:PHE:HB3	1.69	0.58
1:AA:1055:A:O2'	3:AC:161:GLU:HA	2.04	0.58
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.04	0.58
2:AB:22:LYS:HA	2:AB:22:LYS:HZ3	1.67	0.58
2:AB:67:THR:HA	2:AB:90:MET:SD	2.44	0.58
2:AB:145:LEU:O	2:AB:149:LEU:HB2	2.03	0.58
5:AE:103:GLY:C	5:AE:105:VAL:H	2.11	0.58
8:AH:96:GLY:O	8:AH:130:GLY:HA3	2.03	0.58
10:AJ:40:LEU:HB3	10:AJ:41:PRO:CD	2.30	0.58
18:AR:66:LEU:CG	18:AR:70:ILE:HD11	2.33	0.58
20:AT:10:LEU:O	20:AT:13:LEU:HG	2.04	0.58
25:B0:12:ASN:HA	25:B0:14:ARG:NH2	2.19	0.58
29:B4:5:ILE:HD12	41:BG:67:LYS:CE	2.34	0.58
35:BA:993:G:OP1	52:BU:50:ARG:NH2	2.36	0.58
35:BA:1448:G:H5'	35:BA:1449:A:OP1	2.04	0.58
35:BA:2347:C:H2'	35:BA:2348:U:C6	2.39	0.58
35:BA:2562:U:H1'	46:BO:23:ARG:HE	1.68	0.58
35:BA:2577:A:H5''	35:BA:2578:G:H5'	1.86	0.58
37:BC:34:THR:HG22	37:BC:216:THR:HA	1.86	0.58
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.28	0.58
42:BH:64:LEU:C	42:BH:66:GLY:N	2.58	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:24:GLY:C	45:BN:26:LEU:N	2.59	0.58
46:BO:87:ILE:HG22	46:BO:88:ASN:N	2.17	0.58
47:BP:23:PRO:HB2	47:BP:33:ARG:CG	2.34	0.58
49:BR:7:GLY:O	49:BR:8:ARG:HB2	2.03	0.58
49:BR:54:LEU:HD23	49:BR:66:VAL:HG23	1.86	0.58
50:BS:89:ARG:HB3	50:BS:92:TYR:CB	2.32	0.58
57:BZ:51:ALA:O	57:BZ:52:SER:HB3	2.03	0.58
1:CA:41:G:H2'	1:CA:42:G:H8	1.69	0.58
1:CA:149:A:O2'	1:CA:150:C:H5'	2.04	0.58
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.34	0.58
1:CA:1060:C:H6	3:CC:2:GLY:HA2	1.65	0.58
2:CB:67:THR:HA	2:CB:90:MET:SD	2.44	0.58
3:CC:44:GLU:O	3:CC:48:TYR:HB2	2.03	0.58
6:CF:97:PHE:CD2	18:CR:31:LEU:HD21	2.38	0.58
9:CI:18:PHE:O	9:CI:61:ALA:HA	2.04	0.58
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.71	0.58
15:CO:69:TYR:HD1	15:CO:72:ARG:NH2	2.02	0.58
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.16	0.58
25:D0:11:ARG:HB2	25:D0:11:ARG:HH11	1.68	0.58
35:DA:686:G:N2	35:DA:788:A:H61	2.02	0.58
35:DA:862:G:H2'	35:DA:863:A:O4'	2.03	0.58
35:DA:926:A:H2'	35:DA:927:G:H8	1.69	0.58
35:DA:1266:G:O5'	54:DW:15:ARG:NH2	2.36	0.58
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.03	0.58
38:DD:70:TRP:CD1	38:DD:70:TRP:C	2.81	0.58
42:DH:35:VAL:HG21	42:DH:75:ALA:HB2	1.86	0.58
45:DN:58:ASP:O	45:DN:60:ILE:HG13	2.04	0.58
47:DP:7:ARG:HA	47:DP:7:ARG:HH11	1.58	0.58
47:DP:79:ARG:HG3	47:DP:110:TYR:CD2	2.39	0.58
51:DT:28:VAL:HG22	51:DT:47:GLY:N	2.19	0.58
51:DT:78:LEU:HD23	51:DT:79:HIS:HE1	1.67	0.58
1:AA:73:G:H1	1:AA:96:U:H3	1.52	0.57
2:AB:102:LEU:HD12	2:AB:102:LEU:H	1.70	0.57
5:AE:40:ARG:HB3	5:AE:66:MET:HE3	1.84	0.57
8:AH:28:ALA:HB3	8:AH:57:PRO:HB2	1.85	0.57
8:AH:53:VAL:O	8:AH:56:LYS:HB2	2.03	0.57
10:AJ:50:ILE:CG2	10:AJ:60:ARG:HD3	2.34	0.57
21:AU:6:ARG:CZ	21:AU:15:ARG:HH22	2.16	0.57
25:B0:19:LYS:N	25:B0:19:LYS:HD2	2.18	0.57
33:B8:47:LYS:O	33:B8:48:PHE:HD2	1.87	0.57
35:BA:1047:G:H2'	35:BA:1110:G:H22	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1563:G:O2'	35:BA:1564:C:H5'	2.04	0.57
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.38	0.57
35:BA:2787:C:H1'	39:BE:61:ARG:HB2	1.86	0.57
42:BH:35:VAL:HG21	42:BH:75:ALA:HB2	1.86	0.57
42:BH:64:LEU:C	42:BH:66:GLY:H	2.12	0.57
45:BN:3:THR:O	45:BN:4:TYR:C	2.47	0.57
48:BQ:26:TYR:CE1	48:BQ:28:ALA:HB2	2.39	0.57
49:BR:17:ARG:HH11	49:BR:17:ARG:HG2	1.69	0.57
51:BT:28:VAL:HG22	51:BT:47:GLY:N	2.17	0.57
53:BV:19:LYS:HG3	53:BV:20:LEU:O	2.04	0.57
56:BY:31:LEU:HD23	56:BY:36:ALA:C	2.28	0.57
57:BZ:153:SER:CB	57:BZ:167:PRO:HB2	2.34	0.57
1:CA:22:G:O2'	1:CA:913:A:N1	2.34	0.57
1:CA:165:C:H2'	1:CA:166:G:H8	1.68	0.57
1:CA:586:C:H1'	1:CA:878:G:O2'	2.04	0.57
1:CA:624:C:H4'	16:CP:10:GLY:C	2.29	0.57
1:CA:835:U:H3	1:CA:851:G:H1	1.52	0.57
1:CA:1207:G:H2'	1:CA:1208:C:C5	2.38	0.57
1:CA:1504:G:O2'	1:CA:1505:G:OP2	2.22	0.57
3:CC:87:LEU:C	3:CC:89:GLU:H	2.11	0.57
5:CE:5:ASP:HA	5:CE:63:ARG:CZ	2.34	0.57
13:CM:91:ARG:HH21	13:CM:96:LEU:HB3	1.69	0.57
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.04	0.57
18:CR:81:PHE:O	18:CR:82:THR:HB	2.03	0.57
22:CV:47:U:H2'	22:CV:47:U:O2	2.04	0.57
33:D8:6:THR:HG21	33:D8:63:PRO:HD3	1.86	0.57
35:DA:642:G:H21	35:DA:646:A:H2	1.51	0.57
35:DA:1692:U:O2'	35:DA:1693:U:H2'	2.03	0.57
35:DA:1793:C:H2'	35:DA:1794:U:H6	1.69	0.57
42:DH:64:LEU:C	42:DH:66:GLY:H	2.12	0.57
47:DP:23:PRO:HB2	47:DP:33:ARG:CG	2.32	0.57
47:DP:108:LYS:O	47:DP:110:TYR:N	2.36	0.57
52:DU:76:TYR:OH	52:DU:93:LYS:HE3	2.04	0.57
53:DV:99:ILE:HD13	53:DV:99:ILE:N	2.18	0.57
56:DY:37:VAL:O	56:DY:66:PRO:O	2.21	0.57
1:AA:115:G:H1'	1:AA:116:A:N7	2.18	0.57
1:AA:1012:U:C3'	1:AA:1013:G:H5''	2.33	0.57
1:AA:1226:C:H42	13:AM:104:ARG:HD2	1.68	0.57
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.69	0.57
2:AB:214:ILE:C	2:AB:215:LEU:HD22	2.29	0.57
4:AD:100:ARG:NH1	4:AD:137:SER:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.04	0.57
15:AO:66:LEU:CD1	15:AO:66:LEU:N	2.67	0.57
16:AP:5:ARG:NE	16:AP:22:THR:HG21	2.19	0.57
21:AU:6:ARG:NH2	21:AU:15:ARG:HH22	2.01	0.57
31:B6:12:GLU:N	31:B6:12:GLU:CD	2.61	0.57
35:BA:279:C:N4	35:BA:361:G:H1	2.01	0.57
35:BA:673:C:H5''	40:BF:81:PRO:HD2	1.86	0.57
35:BA:686:G:N2	35:BA:788:A:H61	2.02	0.57
35:BA:903:C:H2'	35:BA:904:C:C5'	2.34	0.57
35:BA:1352:U:O2'	35:BA:1353:A:H5'	2.03	0.57
35:BA:1778:U:H2'	35:BA:1784:A:N6	2.19	0.57
35:BA:2256:G:H2'	35:BA:2257:U:C6	2.39	0.57
37:BC:22:ILE:HG22	37:BC:24:GLU:H	1.69	0.57
38:BD:185:VAL:HG12	38:BD:186:HIS:H	1.69	0.57
39:BE:78:LEU:O	39:BE:79:ARG:HD2	2.03	0.57
40:BF:132:VAL:HG13	40:BF:138:GLU:OE1	2.03	0.57
41:BG:41:GLN:HB3	41:BG:43:LEU:CD1	2.34	0.57
41:BG:141:PHE:HB2	41:BG:144:ILE:HD12	1.86	0.57
46:BO:69:ILE:HD12	46:BO:69:ILE:N	2.19	0.57
51:BT:91:ARG:HB3	51:BT:117:ASP:H	1.69	0.57
53:BV:19:LYS:CG	53:BV:94:LEU:HB2	2.32	0.57
55:BX:11:PRO:HB3	55:BX:92:LEU:HD21	1.86	0.57
1:CA:97:G:O2'	1:CA:98:G:H8	1.86	0.57
1:CA:407:G:N2	1:CA:436:C:H1'	2.18	0.57
1:CA:1130:A:N6	1:CA:1143:G:H21	2.01	0.57
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.05	0.57
3:CC:42:LEU:HD12	3:CC:45:LYS:HD2	1.84	0.57
3:CC:140:ARG:HB2	3:CC:140:ARG:NH1	2.19	0.57
5:CE:103:GLY:H	5:CE:106:PRO:HG3	1.69	0.57
8:CH:26:VAL:O	8:CH:27:PRO:C	2.46	0.57
9:CI:16:ARG:HE	9:CI:64:THR:HB	1.69	0.57
10:CJ:4:ILE:HD12	10:CJ:4:ILE:N	2.16	0.57
12:CL:33:VAL:H	12:CL:55:VAL:HG13	1.69	0.57
14:CN:4:LYS:O	14:CN:7:ILE:HG12	2.04	0.57
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.69	0.57
16:CP:49:LEU:HD11	16:CP:73:LEU:HB3	1.86	0.57
58:CX:19:G:N3	58:CX:19:G:C3'	2.66	0.57
25:D0:12:ASN:HA	25:D0:14:ARG:NH2	2.19	0.57
25:D0:72:ARG:O	25:D0:75:LEU:N	2.30	0.57
35:DA:364:C:H2'	35:DA:365:C:H5''	1.85	0.57
37:DC:47:LEU:H	37:DC:47:LEU:HD23	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:27:THR:HG23	38:DD:27:THR:O	2.04	0.57
38:DD:172:TYR:HD1	38:DD:185:VAL:O	1.87	0.57
38:DD:174:ILE:HG12	38:DD:184:LYS:HG2	1.86	0.57
39:DE:81:ILE:HG22	39:DE:81:ILE:O	2.04	0.57
40:DF:143:ALA:HB1	40:DF:148:LEU:HB2	1.85	0.57
50:DS:42:ASP:C	50:DS:44:LYS:H	2.12	0.57
53:DV:39:LEU:HD12	53:DV:50:PRO:O	2.04	0.57
54:DW:64:MET:O	54:DW:65:LEU:HG	2.04	0.57
54:DW:88:ARG:HB2	54:DW:92:ARG:HB2	1.85	0.57
56:DY:7:VAL:HB	56:DY:8:LYS:HZ2	1.68	0.57
1:AA:833:U:H2'	1:AA:834:C:C6	2.40	0.57
1:AA:1107:C:H3'	1:AA:1108:G:H5''	1.86	0.57
2:AB:212:GLN:HG3	2:AB:235:SER:HB2	1.85	0.57
8:AH:97:VAL:HG13	8:AH:98:LYS:H	1.70	0.57
17:AQ:87:LYS:HB3	17:AQ:87:LYS:HZ2	1.69	0.57
20:AT:53:LEU:HD12	20:AT:53:LEU:N	2.18	0.57
24:AY:26:PRO:HA	24:AY:43:TRP:CD1	2.39	0.57
27:B2:35:LEU:HD12	27:B2:53:LEU:HD12	1.86	0.57
35:BA:364:C:H2'	35:BA:365:C:H5''	1.86	0.57
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.87	0.57
35:BA:2472:G:H3'	35:BA:2475:C:H42	1.69	0.57
35:BA:2712:U:O2	35:BA:2712:U:H5'	2.04	0.57
35:BA:2875:C:O2'	51:BT:5:ALA:HB3	2.04	0.57
39:BE:171:GLU:HB3	39:BE:185:LYS:HG2	1.84	0.57
41:BG:38:VAL:CG1	41:BG:158:ALA:HB3	2.35	0.57
43:BI:35:LEU:HD23	43:BI:35:LEU:N	2.19	0.57
43:BI:81:VAL:O	43:BI:82:ARG:O	2.22	0.57
47:BP:16:ARG:HD3	47:BP:17:LYS:N	2.19	0.57
47:BP:62:LEU:HD22	47:BP:62:LEU:N	2.18	0.57
51:BT:28:VAL:HG13	51:BT:46:GLU:CA	2.35	0.57
51:BT:89:VAL:O	51:BT:91:ARG:N	2.37	0.57
53:BV:40:LEU:HD22	53:BV:46:VAL:HA	1.86	0.57
56:BY:14:LEU:HG	56:BY:15:VAL:N	2.20	0.57
56:BY:27:VAL:HA	56:BY:28:LYS:HE3	1.86	0.57
1:CA:29:G:O2'	1:CA:30:U:H5'	2.04	0.57
1:CA:708:C:H2'	1:CA:709:G:H8	1.69	0.57
1:CA:1429:C:H2'	1:CA:1430:C:H6	1.69	0.57
1:CA:1442(B):A:N7	51:DT:118:ARG:CZ	2.67	0.57
1:CA:1498:U:H2'	58:CX:17:U:OP1	2.05	0.57
3:CC:6:HIS:CD2	3:CC:8:ILE:HG12	2.39	0.57
3:CC:18:TRP:C	3:CC:20:SER:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:121:ARG:NH2	9:CI:124:GLN:HE22	2.02	0.57
35:DA:330:A:O2'	35:DA:331:A:H8	1.86	0.57
35:DA:623:G:H2'	35:DA:624:C:C6	2.39	0.57
35:DA:864:G:H2'	35:DA:866:A:N6	2.18	0.57
35:DA:1047:G:H2'	35:DA:1110:G:H22	1.68	0.57
35:DA:1449:A:H5'	35:DA:1450:G:OP2	2.05	0.57
35:DA:1568:G:C5'	38:DD:60:ARG:HA	2.33	0.57
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.04	0.57
35:DA:2115:G:H1'	35:DA:2117:A:N7	2.19	0.57
35:DA:2127:G:H1'	35:DA:2173:A:C2	2.40	0.57
35:DA:2302:G:H1'	41:DG:128:ARG:CZ	2.34	0.57
38:DD:16:MET:HB3	38:DD:207:GLY:HA3	1.86	0.57
38:DD:32:SER:C	38:DD:36:PRO:HD3	2.30	0.57
38:DD:186:HIS:HB3	38:DD:189:CYS:SG	2.45	0.57
40:DF:2:LYS:H	40:DF:25:PRO:HG3	1.69	0.57
43:DI:88:ILE:HG22	43:DI:122:GLU:N	2.19	0.57
47:DP:66:GLY:O	47:DP:67:MET:CB	2.51	0.57
48:DQ:55:VAL:CG2	48:DQ:56:ARG:N	2.67	0.57
48:DQ:84:GLY:O	48:DQ:85:LYS:HB2	2.03	0.57
48:DQ:108:GLY:CA	57:DZ:116:VAL:HG11	2.34	0.57
49:DR:45:ARG:O	49:DR:48:VAL:HG12	2.04	0.57
1:AA:559:A:H4'	1:AA:560:U:H5''	1.86	0.57
1:AA:920:U:H1'	1:AA:1080:A:C2	2.39	0.57
1:AA:1492:A:H4'	24:AY:34:GLN:HB3	1.86	0.57
9:AI:28:VAL:HG13	9:AI:63:ILE:C	2.29	0.57
9:AI:29:ASN:HD21	9:AI:65:VAL:N	2.02	0.57
31:B6:15:GLU:OE1	31:B6:18:ARG:HD2	2.04	0.57
31:B6:35:GLU:HB3	31:B6:51:GLU:CB	2.28	0.57
31:B6:45:LYS:HB3	31:B6:45:LYS:HZ2	1.69	0.57
35:BA:1917:U:C2'	35:BA:1918:A:H5'	2.35	0.57
35:BA:2133:G:H2'	35:BA:2157:G:N2	2.19	0.57
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.32	0.57
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.39	0.57
36:BB:55:U:H2'	36:BB:56:G:H8	1.67	0.57
38:BD:141:VAL:O	38:BD:141:VAL:HG23	2.03	0.57
41:BG:52:ILE:HG12	41:BG:53:LEU:N	2.12	0.57
41:BG:91:ARG:HG3	41:BG:91:ARG:NH1	2.17	0.57
47:BP:108:LYS:C	47:BP:110:TYR:H	2.11	0.57
51:BT:26:ASP:C	51:BT:26:ASP:OD2	2.47	0.57
52:BU:92:ARG:CG	52:BU:94:ASN:HB3	2.34	0.57
1:CA:36:C:C2	1:CA:37:U:C6	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:139:G:H2'	1:CA:140:A:H8	1.70	0.57
1:CA:1151:A:O2'	1:CA:1152:A:H8	1.87	0.57
1:CA:1225:A:OP1	13:CM:102:ARG:HA	2.03	0.57
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.04	0.57
1:CA:1398:A:C6	5:CE:19:MET:HE3	2.39	0.57
1:CA:1425:U:O2'	1:CA:1426:C:H5'	2.04	0.57
1:CA:1475:G:O2'	1:CA:1476:G:H5'	2.03	0.57
5:CE:6:PHE:H	5:CE:63:ARG:HH12	1.51	0.57
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.86	0.57
9:CI:111:ARG:CG	9:CI:112:LYS:N	2.68	0.57
9:CI:113:LYS:HD2	9:CI:113:LYS:H	1.69	0.57
13:CM:98:VAL:O	13:CM:99:ARG:HB2	2.03	0.57
16:CP:38:TYR:CE2	16:CP:50:LYS:HE3	2.39	0.57
20:CT:54:LYS:HB2	20:CT:54:LYS:NZ	2.19	0.57
22:CV:27:U:H3	22:CV:43:A:H61	1.52	0.57
33:D8:29:LYS:HA	33:D8:32:LEU:HD23	1.86	0.57
34:D9:6:SER:HB2	35:DA:2466:C:H5''	1.85	0.57
35:DA:1794:U:H2'	35:DA:1795:C:C6	2.39	0.57
35:DA:2758:A:C4	42:DH:67:LEU:HD21	2.39	0.57
43:DI:99:GLU:CD	43:DI:100:ALA:H	2.11	0.57
45:DN:19:GLU:CD	45:DN:20:GLY:N	2.63	0.57
45:DN:90:MET:HB3	45:DN:98:VAL:HG22	1.87	0.57
47:DP:63:PRO:O	47:DP:64:LYS:C	2.47	0.57
48:DQ:130:LYS:NZ	57:DZ:80:ARG:HD3	2.20	0.57
1:AA:240:C:H2'	1:AA:241:C:H6	1.67	0.57
1:AA:757:U:H2'	1:AA:758:G:O4'	2.05	0.57
1:AA:930:C:O2'	1:AA:931:C:H5'	2.03	0.57
1:AA:976:G:OP1	14:AN:31:ARG:HB3	2.04	0.57
1:AA:1152:A:C5'	10:AJ:70:ARG:HH22	2.07	0.57
1:AA:1251:A:H4'	9:AI:12:GLU:OE2	2.05	0.57
1:AA:1531:A:H8	1:AA:1531:A:OP2	1.86	0.57
2:AB:28:PHE:CD1	2:AB:190:THR:HA	2.40	0.57
3:AC:9:GLY:HA3	14:AN:49:HIS:HA	1.87	0.57
3:AC:36:ASP:HA	3:AC:39:ILE:HD12	1.86	0.57
4:AD:101:LEU:CD2	4:AD:121:VAL:HG13	2.33	0.57
4:AD:169:LYS:NZ	6:CF:25:ILE:HD11	2.19	0.57
4:AD:199:ASN:C	4:AD:201:GLN:H	2.11	0.57
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.29	0.57
24:AY:76:ASP:OD2	24:AY:78:LYS:CB	2.52	0.57
25:B0:36:ILE:HG23	35:BA:2354:G:O2'	2.04	0.57
33:B8:48:PHE:O	33:B8:49:VAL:HG13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:873:G:O2'	35:BA:874:G:H5'	2.05	0.57
35:BA:1434:A:H61	35:BA:1558:A:N6	2.01	0.57
35:BA:1496:A:H8	35:BA:1577:C:O2'	1.72	0.57
35:BA:1547:C:O2'	35:BA:1548:C:H5'	2.05	0.57
37:BC:100:ILE:HG22	37:BC:101:GLN:N	2.19	0.57
38:BD:54:ARG:CG	38:BD:54:ARG:HH11	2.16	0.57
41:BG:25:TYR:HD2	41:BG:31:VAL:HG22	1.68	0.57
42:BH:67:LEU:O	42:BH:71:LEU:HD13	2.05	0.57
42:BH:83:TYR:HB3	42:BH:135:GLY:N	2.18	0.57
43:BI:123:LEU:HD13	43:BI:142:VAL:O	2.04	0.57
47:BP:84:ASN:HD21	47:BP:115:LEU:HG	1.68	0.57
47:BP:132:LYS:HE3	47:BP:132:LYS:CA	2.33	0.57
47:BP:133:SER:HA	47:BP:136:GLU:CG	2.34	0.57
48:BQ:21:THR:HG23	48:BQ:101:ARG:HB2	1.86	0.57
53:BV:46:VAL:HG22	53:BV:47:VAL:O	2.04	0.57
56:BY:7:VAL:CB	56:BY:8:LYS:HD2	2.29	0.57
1:CA:161:A:H2'	1:CA:162:A:C8	2.39	0.57
1:CA:300:A:H1'	1:CA:565:U:O2	2.05	0.57
1:CA:452:A:H62	1:CA:480:U:H3	1.53	0.57
1:CA:1053:G:H3'	1:CA:1054:C:H5'	1.85	0.57
1:CA:1301:U:H5''	1:CA:1303:C:H41	1.69	0.57
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.05	0.57
2:CB:28:PHE:CD1	2:CB:190:THR:HA	2.39	0.57
2:CB:101:MET:HG2	2:CB:108:ILE:HG21	1.85	0.57
2:CB:187:LEU:HD13	2:CB:205:ASP:CB	2.35	0.57
3:CC:15:THR:HG22	3:CC:16:ARG:N	2.19	0.57
5:CE:79:GLU:CD	5:CE:79:GLU:H	2.10	0.57
7:CG:91:VAL:HG12	7:CG:95:ARG:HB3	1.87	0.57
7:CG:109:ASN:HA	7:CG:119:ARG:HE	1.68	0.57
11:CK:84:VAL:HG23	11:CK:110:ASP:OD1	2.04	0.57
17:CQ:96:GLU:C	17:CQ:98:LEU:H	2.13	0.57
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.67	0.57
35:DA:214:G:H1'	35:DA:216:A:O2'	2.04	0.57
35:DA:869:G:O2'	35:DA:870:A:H5'	2.03	0.57
35:DA:1701:A:H5'	35:DA:1702:G:OP2	2.05	0.57
35:DA:2524:G:H5'	35:DA:2524:G:C8	2.39	0.57
35:DA:2577:A:H5''	35:DA:2578:G:H5'	1.85	0.57
35:DA:2580:U:H5'	39:DE:131:ALA:HB2	1.87	0.57
38:DD:186:HIS:HD2	38:DD:188:GLU:H	1.50	0.57
40:DF:2:LYS:O	40:DF:4:VAL:N	2.38	0.57
45:DN:26:LEU:O	45:DN:30:ILE:HG13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:36:GLY:O	45:DN:38:HIS:N	2.38	0.57
46:DO:88:ASN:ND2	46:DO:90:GLN:HB2	2.18	0.57
57:DZ:11:GLU:N	57:DZ:11:GLU:OE2	2.37	0.57
57:DZ:12:GLY:HA2	57:DZ:36:LYS:HZ3	1.69	0.57
57:DZ:39:VAL:HG21	57:DZ:44:PHE:CD2	2.39	0.57
57:DZ:179:ASP:O	57:DZ:181:GLU:N	2.36	0.57
1:AA:184:G:H2'	1:AA:185:A:H8	1.69	0.57
1:AA:1029:C:H1'	1:AA:1033:G:O6	2.04	0.57
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.04	0.57
1:AA:1493:A3P:O4P	24:AY:34:GLN:HB2	2.03	0.57
6:AF:100:ASN:HD21	18:AR:23:LYS:HG3	1.69	0.57
10:AJ:91:PRO:HB2	10:AJ:94:VAL:HB	1.85	0.57
16:AP:71:ARG:HB2	16:AP:71:ARG:HH11	1.70	0.57
20:AT:54:LYS:HB2	20:AT:54:LYS:NZ	2.18	0.57
25:B0:34:GLY:O	25:B0:35:ASN:C	2.48	0.57
30:B5:41:PRO:HG2	30:B5:44:THR:OG1	2.04	0.57
33:B8:29:LYS:HD3	33:B8:44:LYS:HG2	1.86	0.57
33:B8:48:PHE:C	33:B8:49:VAL:HG13	2.30	0.57
33:B8:53:PRO:HA	33:B8:56:GLU:HB3	1.86	0.57
35:BA:364:C:C2'	35:BA:365:C:H5''	2.35	0.57
35:BA:1203:G:H4'	47:BP:7:ARG:HG3	1.85	0.57
35:BA:1431:U:O2'	35:BA:1432:C:H5'	2.04	0.57
35:BA:2061:G:H5''	35:BA:2503:A:C2	2.39	0.57
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.87	0.57
35:BA:2115:G:H1'	35:BA:2117:A:N7	2.20	0.57
39:BE:111:ARG:HD3	49:BR:2:ARG:NH2	2.20	0.57
40:BF:2:LYS:H	40:BF:25:PRO:HG3	1.69	0.57
43:BI:68:LEU:HD13	43:BI:108:THR:HB	1.87	0.57
49:BR:10:LEU:HB3	49:BR:17:ARG:CZ	2.34	0.57
51:BT:78:LEU:C	51:BT:79:HIS:ND1	2.62	0.57
52:BU:29:SER:OG	52:BU:30:LYS:HE2	2.05	0.57
52:BU:91:ASP:O	52:BU:92:ARG:HG2	2.04	0.57
54:BW:29:LEU:HG	54:BW:33:ARG:NH1	2.19	0.57
56:BY:46:LYS:N	56:BY:60:PHE:O	2.35	0.57
1:CA:376:G:O2'	1:CA:377:G:H5'	2.05	0.57
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.84	0.57
1:CA:1165:C:H2'	1:CA:1166:G:H8	1.67	0.57
1:CA:1225:A:C5	1:CA:1226:C:C4	2.91	0.57
1:CA:1262:C:H42	1:CA:1273:G:H1	1.52	0.57
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.39	0.57
4:CD:63:LYS:HD2	4:CD:198:VAL:HG12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.86	0.57
10:CJ:91:PRO:HB2	10:CJ:94:VAL:HB	1.85	0.57
14:CN:33:VAL:HG23	14:CN:33:VAL:O	2.03	0.57
15:CO:32:LEU:O	15:CO:33:THR:C	2.47	0.57
35:DA:1301:A:H2'	35:DA:1302:A:H3'	1.86	0.57
35:DA:1705:G:O2'	35:DA:1706:U:H5'	2.03	0.57
35:DA:2169:A:H2'	35:DA:2169:A:N3	2.20	0.57
35:DA:2472:G:C5'	35:DA:2473:U:C4'	2.80	0.57
42:DH:67:LEU:O	42:DH:71:LEU:HD13	2.05	0.57
43:DI:50:ARG:O	43:DI:54:GLN:HB2	2.04	0.57
51:DT:30:VAL:HG21	51:DT:84:GLN:N	2.18	0.57
56:DY:13:VAL:HG23	56:DY:73:ARG:O	2.04	0.57
1:AA:41:G:H2'	1:AA:42:G:H8	1.69	0.57
1:AA:599:C:H2'	1:AA:600:C:H6	1.70	0.57
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.38	0.57
5:AE:78:HIS:HE1	5:AE:142:LEU:HA	1.70	0.57
6:AF:19:LEU:CD2	6:AF:23:LYS:HE3	2.34	0.57
6:AF:68:PRO:HG3	6:AF:71:ARG:HH21	1.70	0.57
10:AJ:5:ARG:O	10:AJ:98:ILE:HA	2.03	0.57
11:AK:32:ILE:HD13	11:AK:72:ALA:HB2	1.87	0.57
24:AY:28:ILE:HG13	24:AY:29:PRO:HD2	1.83	0.57
35:BA:813:U:H2'	35:BA:814:C:C6	2.39	0.57
35:BA:873:G:H1	35:BA:904:C:H42	1.53	0.57
36:BB:107:G:O2'	36:BB:108:U:H5'	2.05	0.57
38:BD:159:ALA:HB1	38:BD:198:ASN:O	2.04	0.57
38:BD:182:LEU:H	38:BD:272:ALA:CB	2.18	0.57
40:BF:24:LEU:O	40:BF:115:ALA:HB1	2.04	0.57
46:BO:93:PRO:HD3	46:BO:114:ILE:HD11	1.85	0.57
47:BP:41:ARG:NE	47:BP:41:ARG:N	2.53	0.57
1:CA:426:G:P	4:CD:36:ARG:HH12	2.27	0.57
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.36	0.57
2:CB:142:LEU:HA	2:CB:145:LEU:HB2	1.85	0.57
3:CC:134:ILE:HG23	3:CC:151:VAL:HB	1.85	0.57
3:CC:138:VAL:O	3:CC:142:MET:HB2	2.04	0.57
5:CE:64:ARG:HG3	5:CE:64:ARG:HH11	1.70	0.57
5:CE:75:THR:HG22	5:CE:117:ASP:HB2	1.84	0.57
14:CN:33:VAL:HG12	14:CN:40:CYS:CA	2.35	0.57
31:D6:15:GLU:HB3	31:D6:18:ARG:HG3	1.86	0.57
35:DA:271(V):G:H2'	35:DA:271(W):G:O4'	2.04	0.57
35:DA:2147:G:H2'	35:DA:2148:G:C4'	2.32	0.57
36:DB:110:G:H2'	36:DB:111:G:H8	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:22:ARG:O	49:DR:26:LYS:HG3	2.04	0.57
53:DV:40:LEU:HD22	53:DV:46:VAL:HA	1.87	0.57
56:DY:7:VAL:CB	56:DY:8:LYS:NZ	2.67	0.57
56:DY:88:LYS:NZ	56:DY:93:GLY:CA	2.67	0.57
1:AA:318:G:H2'	1:AA:319:G:H8	1.68	0.57
1:AA:438:G:H2'	1:AA:494:U:O4	2.05	0.57
1:AA:976:G:P	14:AN:32:SER:H	2.28	0.57
1:AA:1028:C:H41	1:AA:1034:G:H21	1.52	0.57
6:AF:42:GLU:O	6:AF:42:GLU:HG2	2.03	0.57
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.30	0.57
7:AG:32:ARG:HG2	7:AG:32:ARG:NH1	2.18	0.57
10:AJ:38:ILE:HG23	10:AJ:71:LEU:HB3	1.86	0.57
11:AK:102:GLY:C	11:AK:103:LEU:HD22	2.29	0.57
12:AL:82:ILE:HD12	12:AL:96:HIS:O	2.04	0.57
18:AR:81:PHE:O	18:AR:82:THR:HB	2.03	0.57
22:AV:55:U:H5'	22:AV:55:U:H6	1.69	0.57
35:BA:284:U:H2'	35:BA:285:C:C6	2.40	0.57
35:BA:2472:G:C5'	35:BA:2473:U:H5''	2.33	0.57
39:BE:141:ILE:O	39:BE:141:ILE:HG13	2.05	0.57
47:BP:81:GLN:HG2	47:BP:106:LEU:HA	1.86	0.57
50:BS:39:ILE:HG22	50:BS:48:LEU:HD13	1.87	0.57
56:BY:95:LYS:HZ3	56:BY:99:CYS:H	1.48	0.57
57:BZ:72:ARG:HG2	57:BZ:89:PHE:HB2	1.87	0.57
57:BZ:81:ARG:HG3	57:BZ:82:ARG:H	1.70	0.57
57:BZ:81:ARG:O	57:BZ:82:ARG:HB3	2.04	0.57
57:BZ:131:ARG:HH11	57:BZ:131:ARG:HG2	1.69	0.57
1:CA:165:C:H2'	1:CA:166:G:C8	2.39	0.57
1:CA:318:G:H2'	1:CA:319:G:H8	1.69	0.57
1:CA:644:G:C4'	8:CH:92:ARG:HH21	2.14	0.57
1:CA:1078:U:H1'	5:CE:130:ASN:ND2	2.04	0.57
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.69	0.57
2:CB:21:ARG:HH21	2:CB:38:GLY:HA3	1.70	0.57
2:CB:170:GLU:C	2:CB:172:ILE:HD12	2.29	0.57
4:CD:156:GLU:HG2	4:CD:160:GLN:NE2	2.20	0.57
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.33	0.57
6:CF:42:GLU:O	6:CF:44:GLY:N	2.37	0.57
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.14	0.57
12:CL:67:ILE:HG21	12:CL:74:LEU:HD12	1.87	0.57
12:CL:114:ARG:HG2	12:CL:119:THR:HG23	1.87	0.57
22:CV:54:U:C2'	22:CV:55:U:C5'	2.79	0.57
33:D8:40:GLU:O	33:D8:43:GLN:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:611:C:H2'	35:DA:612:C:H6	1.69	0.57
35:DA:1126:A:OP1	35:DA:1126:A:H8	1.88	0.57
35:DA:1210:A:H8	35:DA:1210:A:H5'	1.70	0.57
35:DA:2792:G:H1	35:DA:2804:C:N4	2.01	0.57
38:DD:16:MET:HA	38:DD:205:VAL:CG1	2.25	0.57
41:DG:11:TYR:HA	41:DG:15:VAL:HG23	1.86	0.57
41:DG:108:ASN:HD22	41:DG:108:ASN:N	2.02	0.57
47:DP:132:LYS:HE3	47:DP:132:LYS:CA	2.33	0.57
50:DS:54:LEU:O	50:DS:57:LYS:HD2	2.04	0.57
56:DY:31:LEU:HD23	56:DY:36:ALA:C	2.29	0.57
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.20	0.57
2:AB:70:PHE:HB2	2:AB:92:TYR:CB	2.35	0.57
3:AC:44:GLU:O	3:AC:48:TYR:HB2	2.04	0.57
3:AC:132:ARG:HD3	3:AC:136:GLN:NE2	2.19	0.57
5:AE:6:PHE:H	5:AE:63:ARG:HH12	1.52	0.57
7:AG:152:ALA:C	7:AG:154:TYR:H	2.13	0.57
9:AI:13:ALA:HA	9:AI:67:GLY:O	2.05	0.57
19:AS:12:ASP:HB3	19:AS:14:HIS:CD2	2.40	0.57
22:AW:73:A:O2'	22:AW:74:C:H5'	2.04	0.57
28:B3:4:LEU:HD12	28:B3:4:LEU:N	2.19	0.57
29:B4:14:ILE:O	29:B4:21:VAL:HA	2.05	0.57
35:BA:1045:A:H3'	35:BA:1045:A:N3	2.20	0.57
35:BA:1607:C:H4'	35:BA:1608:A:O5'	2.05	0.57
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.86	0.57
35:BA:2392:A:H8	47:BP:60:MET:HB2	1.69	0.57
39:BE:78:LEU:H	39:BE:78:LEU:HD12	1.69	0.57
41:BG:72:ARG:HE	41:BG:86:MET:HB2	1.69	0.57
41:BG:100:TRP:C	41:BG:102:PHE:H	2.13	0.57
41:BG:151:ALA:HB3	41:BG:153:ARG:HH11	1.70	0.57
43:BI:52:ARG:HH11	43:BI:53:ALA:HB2	1.69	0.57
43:BI:129:THR:HG21	43:BI:135:GLU:HB3	1.86	0.57
47:BP:126:VAL:HG22	47:BP:145:PRO:HG3	1.87	0.57
51:BT:31:SER:HB3	51:BT:43:GLN:O	2.04	0.57
56:BY:81:LYS:CE	56:BY:97:ARG:HH21	2.17	0.57
1:CA:167:G:O2'	1:CA:168:G:H5'	2.04	0.57
1:CA:222:U:H2'	1:CA:223:U:C6	2.40	0.57
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.05	0.57
4:CD:13:ARG:HD3	4:CD:36:ARG:HB2	1.87	0.57
4:CD:100:ARG:CZ	4:CD:137:SER:HA	2.35	0.57
7:CG:80:VAL:C	7:CG:82:GLY:H	2.13	0.57
7:CG:138:LYS:HE2	7:CG:142:GLU:OE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:90:LEU:O	10:CJ:90:LEU:HG	2.04	0.57
33:D8:6:THR:OG1	33:D8:8:LYS:HE3	2.05	0.57
35:DA:1114:G:C2'	35:DA:1115:G:H5''	2.34	0.57
35:DA:2531:A:H2	35:DA:2658:C:O2	1.87	0.57
35:DA:2712:U:H5'	35:DA:2712:U:O2	2.05	0.57
35:DA:2785:C:H2'	35:DA:2786:U:H6	1.70	0.57
35:DA:2833:G:C3'	35:DA:2834:G:C5'	2.76	0.57
37:DC:100:ILE:HG22	37:DC:101:GLN:N	2.20	0.57
38:DD:198:ASN:ND2	38:DD:198:ASN:C	2.61	0.57
40:DF:65:TRP:CH2	40:DF:75:HIS:CD2	2.93	0.57
50:DS:61:ASN:H	50:DS:65:VAL:CG2	2.17	0.57
57:DZ:35:ARG:HE	57:DZ:36:LYS:H	1.51	0.57
57:DZ:67:LEU:HG	57:DZ:68:PRO:HD2	1.86	0.57
57:DZ:93:ASP:HA	57:DZ:130:PRO:HG2	1.86	0.57
57:DZ:103:ARG:O	57:DZ:138:GLU:HA	2.05	0.57
1:AA:436:C:O2'	1:AA:437:U:H5'	2.05	0.57
1:AA:762:C:H2'	1:AA:763:G:C8	2.39	0.57
2:AB:142:LEU:HD21	2:AB:146:GLN:NE2	2.20	0.57
3:AC:162:GLN:CB	23:AX:23:A:N6	2.68	0.57
3:AC:162:GLN:CA	23:AX:23:A:H62	2.17	0.57
11:AK:103:LEU:HD22	11:AK:103:LEU:N	2.19	0.57
15:AO:64:ARG:HH11	15:AO:64:ARG:HG3	1.70	0.57
16:AP:1:MET:HG2	16:AP:2:VAL:N	2.18	0.57
16:AP:38:TYR:CE2	16:AP:50:LYS:HE3	2.40	0.57
19:AS:31:ILE:HG22	19:AS:48:THR:O	2.03	0.57
33:B8:8:LYS:N	33:B8:8:LYS:HD2	2.19	0.57
35:BA:214:G:H1'	35:BA:216:A:O2'	2.05	0.57
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.34	0.57
35:BA:2169:A:H2'	35:BA:2169:A:N3	2.20	0.57
35:BA:2408:U:H2'	35:BA:2409:G:C8	2.40	0.57
35:BA:2531:A:H2	35:BA:2658:C:O2	1.88	0.57
35:BA:2730:C:O2'	35:BA:2731:G:H5'	2.04	0.57
38:BD:24:ILE:HD12	38:BD:24:ILE:C	2.30	0.57
38:BD:31:LYS:O	38:BD:33:LEU:N	2.38	0.57
39:BE:81:ILE:HG22	39:BE:81:ILE:O	2.05	0.57
45:BN:14:VAL:HG12	45:BN:15:LEU:N	2.18	0.57
46:BO:1:MET:HE2	46:BO:32:TYR:CD2	2.40	0.57
51:BT:34:VAL:O	51:BT:34:VAL:HG12	2.04	0.57
56:BY:31:LEU:HD23	56:BY:36:ALA:O	2.05	0.57
57:BZ:23:LYS:O	57:BZ:25:PRO:HD3	2.05	0.57
57:BZ:149:SER:HB3	57:BZ:173:ALA:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:47:C:H42	1:CA:362:G:H22	1.52	0.57
1:CA:987:G:H2'	1:CA:988:G:C8	2.40	0.57
1:CA:1029:C:H1'	1:CA:1033:G:O6	2.05	0.57
1:CA:1060:C:P	14:CN:45:ARG:NH2	2.77	0.57
1:CA:1505:G:C2'	58:CX:15:A:OP2	2.53	0.57
5:CE:139:LEU:C	5:CE:141:GLN:H	2.11	0.57
9:CI:29:ASN:HD21	9:CI:65:VAL:N	2.03	0.57
10:CJ:24:VAL:O	10:CJ:28:ARG:HB2	2.05	0.57
20:CT:53:LEU:HD12	20:CT:53:LEU:N	2.19	0.57
22:CV:53:G:O2'	22:CV:54:U:H5'	2.04	0.57
26:D1:52:ARG:CZ	26:D1:57:GLU:HB2	2.35	0.57
35:DA:1917:U:C2'	35:DA:1918:A:H5'	2.35	0.57
35:DA:2737:G:H2'	35:DA:2738:A:C8	2.39	0.57
36:DB:2:C:H2'	36:DB:3:C:C6	2.39	0.57
38:DD:155:LEU:HD23	38:DD:177:LEU:HD21	1.85	0.57
40:DF:24:LEU:O	40:DF:115:ALA:HB1	2.05	0.57
43:DI:93:THR:HG23	43:DI:94:ALA:N	2.20	0.57
47:DP:25:SER:C	47:DP:30:THR:HG23	2.30	0.57
48:DQ:133:ARG:HG2	48:DQ:134:ARG:H	1.68	0.57
50:DS:30:ARG:HH22	50:DS:62:LYS:HD2	1.68	0.57
51:DT:30:VAL:HG21	51:DT:84:GLN:H	1.70	0.57
54:DW:29:LEU:HG	54:DW:33:ARG:NH1	2.20	0.57
57:DZ:29:TYR:HB3	57:DZ:34:ASN:HB2	1.86	0.57
1:AA:163:C:O2'	1:AA:164:U:H5'	2.05	0.56
1:AA:814:A:N7	1:AA:816:A:C4	2.73	0.56
1:AA:826:C:H5'	8:AH:12:ARG:HH21	1.69	0.56
1:AA:940:C:H2'	1:AA:941:G:C8	2.40	0.56
1:AA:1117:G:H22	1:AA:1180:A:H1'	1.70	0.56
1:AA:1373:G:H5''	7:AG:36:LYS:CB	2.35	0.56
2:AB:118:LEU:HD11	2:AB:141:GLU:OE2	2.04	0.56
4:AD:88:VAL:O	4:AD:92:VAL:HG23	2.04	0.56
4:AD:119:GLN:O	4:AD:123:HIS:HD2	1.88	0.56
14:AN:7:ILE:O	14:AN:11:LYS:HB2	2.05	0.56
17:AQ:78:GLU:O	17:AQ:78:GLU:HG3	2.04	0.56
24:AY:2:PHE:O	24:AY:2:PHE:HD2	1.88	0.56
24:AY:43:TRP:C	24:AY:44:THR:O	2.40	0.56
24:AY:73:GLY:C	24:AY:75:PHE:CE1	2.82	0.56
36:BB:2:C:H2'	36:BB:3:C:C6	2.39	0.56
36:BB:5:C:O2'	36:BB:6:C:H5'	2.05	0.56
36:BB:87:G:H2'	36:BB:88:C:H5''	1.87	0.56
43:BI:48:GLU:O	43:BI:52:ARG:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:86:THR:O	43:BI:87:LYS:HG3	2.04	0.56
43:BI:88:ILE:HG22	43:BI:122:GLU:N	2.20	0.56
47:BP:59:LEU:O	47:BP:59:LEU:HG	2.05	0.56
54:BW:37:ARG:HG2	54:BW:37:ARG:HH11	1.70	0.56
56:BY:4:LYS:HD2	56:BY:5:MET:N	2.20	0.56
56:BY:37:VAL:O	56:BY:66:PRO:O	2.23	0.56
57:BZ:77:ASP:O	57:BZ:79:ARG:N	2.38	0.56
57:BZ:144:LEU:HD11	57:BZ:150:LEU:HD22	1.87	0.56
1:CA:277:C:O2'	1:CA:278:G:H5'	2.05	0.56
1:CA:601:C:H2'	1:CA:602:A:H8	1.70	0.56
1:CA:973:G:C1'	10:CJ:55:LYS:HG2	2.35	0.56
1:CA:1241:G:H1	1:CA:1296:C:H42	1.53	0.56
1:CA:1263:C:H2'	1:CA:1264:C:C6	2.40	0.56
2:CB:51:LEU:CD2	2:CB:201:ILE:HD13	2.35	0.56
4:CD:135:LEU:HD13	4:CD:135:LEU:N	2.20	0.56
10:CJ:34:VAL:CG1	10:CJ:35:SER:N	2.68	0.56
20:CT:24:LEU:HD13	20:CT:25:ARG:N	2.20	0.56
35:DA:2347:C:H2'	35:DA:2348:U:C6	2.40	0.56
35:DA:2689:U:H5''	35:DA:2690:C:H5'	1.87	0.56
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	2.05	0.56
40:DF:201:VAL:HA	40:DF:204:ASN:ND2	2.20	0.56
48:DQ:43:THR:HB	48:DQ:45:GLN:NE2	2.20	0.56
48:DQ:43:THR:O	48:DQ:46:GLN:HB2	2.05	0.56
49:DR:87:TYR:C	49:DR:89:ASP:H	2.13	0.56
51:DT:50:ILE:HD12	51:DT:99:LEU:HB2	1.86	0.56
53:DV:59:ALA:HB2	53:DV:96:ILE:HD13	1.87	0.56
57:DZ:145:GLU:HA	57:DZ:145:GLU:OE1	2.05	0.56
1:AA:19:C:H2'	1:AA:20:U:C6	2.40	0.56
1:AA:538:G:O2'	1:AA:539:A:H5'	2.06	0.56
1:AA:663:A:O2'	1:AA:664:G:H5'	2.05	0.56
1:AA:1256:A:OP2	3:AC:26:LYS:NZ	2.37	0.56
2:AB:8:LYS:HD3	2:AB:217:ARG:HH21	1.70	0.56
2:AB:200:ILE:HD12	2:AB:200:ILE:O	2.05	0.56
3:AC:18:TRP:H	3:AC:18:TRP:HE3	1.53	0.56
8:AH:5:PRO:O	8:AH:8:ASP:HB3	2.05	0.56
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.20	0.56
10:AJ:90:LEU:O	10:AJ:90:LEU:HG	2.05	0.56
11:AK:84:VAL:HG22	11:AK:110:ASP:HA	1.87	0.56
22:AW:1:C:H2'	22:AW:2:G:H8	1.70	0.56
33:B8:61:LEU:N	33:B8:63:PRO:HD2	2.20	0.56
35:BA:8:A:H2'	35:BA:9:U:C6	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:887:A:C2	35:BA:889:C:H2'	2.37	0.56
35:BA:921:G:H2'	35:BA:922:U:C6	2.40	0.56
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.70	0.56
35:BA:1721:G:C2'	35:BA:1741:A:H61	2.19	0.56
35:BA:2360:A:O2'	35:BA:2361:A:P	2.62	0.56
35:BA:2746:U:C2'	35:BA:2747:G:H5'	2.35	0.56
38:BD:155:LEU:HD23	38:BD:177:LEU:CD2	2.34	0.56
39:BE:6:GLY:HA2	39:BE:51:PHE:HE2	1.68	0.56
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.23	0.56
40:BF:160:ASN:C	40:BF:160:ASN:ND2	2.62	0.56
48:BQ:55:VAL:CG2	48:BQ:56:ARG:N	2.67	0.56
49:BR:103:ARG:HH11	49:BR:103:ARG:HG2	1.71	0.56
50:BS:35:ILE:O	50:BS:35:ILE:HG23	2.06	0.56
50:BS:42:ASP:C	50:BS:44:LYS:H	2.13	0.56
51:BT:14:TYR:N	51:BT:14:TYR:CD1	2.73	0.56
57:BZ:104:PHE:HD1	57:BZ:141:VAL:HG21	1.70	0.56
1:CA:34:C:OP1	1:CA:34:C:H4'	2.05	0.56
1:CA:613:C:C3'	1:CA:614:A:H5''	2.34	0.56
1:CA:952:U:O2'	1:CA:953:G:H5'	2.05	0.56
2:CB:9:GLU:HB2	2:CB:48:MET:SD	2.45	0.56
4:CD:150:GLU:O	4:CD:152:SER:N	2.38	0.56
4:CD:156:GLU:O	4:CD:160:GLN:HG3	2.05	0.56
5:CE:17:ALA:HB2	5:CE:26:PHE:CD2	2.40	0.56
5:CE:78:HIS:HE1	5:CE:142:LEU:HA	1.69	0.56
7:CG:152:ALA:C	7:CG:154:TYR:H	2.13	0.56
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.19	0.56
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.69	0.56
16:CP:1:MET:HG2	16:CP:2:VAL:N	2.19	0.56
22:CV:46:G:H5''	22:CV:47:U:H5	1.70	0.56
32:D7:30:VAL:HG22	32:D7:33:ARG:HH12	1.70	0.56
35:DA:492:A:H2'	35:DA:493:G:O4'	2.05	0.56
35:DA:1246:A:OP2	47:DP:18:ARG:HG3	2.06	0.56
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.40	0.56
35:DA:2732:G:C2'	35:DA:2733:A:H5'	2.34	0.56
35:DA:2787:C:H1'	39:DE:61:ARG:HB2	1.86	0.56
37:DC:22:ILE:HG22	37:DC:24:GLU:H	1.69	0.56
38:DD:125:ILE:HG22	38:DD:125:ILE:O	2.03	0.56
51:DT:29:ARG:HD3	51:DT:30:VAL:H	1.70	0.56
52:DU:92:ARG:HG2	52:DU:92:ARG:O	2.04	0.56
56:DY:81:LYS:HZ3	56:DY:97:ARG:HH21	1.51	0.56
57:DZ:39:VAL:HG23	57:DZ:40:ASP:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:168:GLU:O	57:DZ:169:GLU:C	2.48	0.56
1:AA:34:C:H6	1:AA:34:C:C5'	2.10	0.56
1:AA:35:G:N2	12:AL:115:SER:OG	2.37	0.56
1:AA:167:G:O2'	1:AA:168:G:H5'	2.04	0.56
1:AA:505:G:H2'	1:AA:506:G:C8	2.38	0.56
1:AA:530:G:H2'	24:AY:29:PRO:HG3	1.85	0.56
1:AA:659:U:H2'	1:AA:660:G:H8	1.70	0.56
1:AA:933:G:OP2	7:AG:3:ARG:HB2	2.05	0.56
1:AA:987:G:H2'	1:AA:988:G:C8	2.40	0.56
1:AA:1154:G:O2'	1:AA:1155:G:H5'	2.06	0.56
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.05	0.56
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.19	0.56
1:AA:1502:A:H2	1:AA:1505:G:N1	2.04	0.56
2:AB:100:GLY:O	2:AB:101:MET:C	2.48	0.56
2:AB:187:LEU:HD13	2:AB:205:ASP:CB	2.34	0.56
3:AC:42:LEU:HA	3:AC:45:LYS:CD	2.35	0.56
3:AC:87:LEU:C	3:AC:89:GLU:H	2.11	0.56
3:AC:138:VAL:O	3:AC:142:MET:HB2	2.05	0.56
3:AC:140:ARG:NH1	3:AC:140:ARG:HB2	2.20	0.56
4:AD:96:LEU:HB3	4:AD:139:ARG:HH12	1.71	0.56
5:AE:5:ASP:HA	5:AE:63:ARG:CZ	2.36	0.56
5:AE:103:GLY:C	5:AE:106:PRO:HD2	2.29	0.56
6:AF:74:ASP:O	6:AF:77:ARG:HB3	2.05	0.56
6:AF:97:PHE:HD2	18:AR:31:LEU:HD21	1.70	0.56
8:AH:92:ARG:HB3	8:AH:94:TYR:CE2	2.41	0.56
9:AI:10:ARG:HG2	9:AI:105:ASP:N	2.19	0.56
10:AJ:34:VAL:HA	10:AJ:74:ILE:HA	1.88	0.56
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.87	0.56
13:AM:97:PRO:C	13:AM:98:VAL:HA	2.30	0.56
13:AM:110:ARG:HH11	13:AM:110:ARG:HG2	1.70	0.56
14:AN:37:PHE:HE1	14:AN:53:LEU:HD22	1.71	0.56
17:AQ:96:GLU:C	17:AQ:98:LEU:H	2.14	0.56
24:AY:33:LYS:HB2	24:AY:36:GLY:CA	2.32	0.56
26:B1:8:SER:OG	26:B1:10:LYS:HG3	2.04	0.56
26:B1:75:GLU:O	26:B1:78:LYS:HB2	2.06	0.56
33:B8:29:LYS:HA	33:B8:32:LEU:HD23	1.86	0.56
35:BA:198:C:H5'	35:BA:2244:U:OP1	2.06	0.56
35:BA:330:A:O2'	35:BA:331:A:C8	2.56	0.56
35:BA:893:C:H2'	35:BA:894:C:C6	2.40	0.56
35:BA:909:A:H2'	35:BA:912:C:H5	1.70	0.56
35:BA:925:C:C2'	35:BA:926:A:C5'	2.77	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1466:G:H5'	35:BA:1467:C:OP1	2.05	0.56
35:BA:2463:C:O2'	35:BA:2464:C:H5'	2.05	0.56
35:BA:2533:A:H2'	35:BA:2534:A:H5'	1.86	0.56
35:BA:2769:C:H2'	35:BA:2770:G:C8	2.41	0.56
38:BD:93:ALA:HB3	38:BD:105:ILE:HG23	1.87	0.56
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.53	0.56
40:BF:67:GLN:O	40:BF:68:LYS:HG2	2.05	0.56
41:BG:129:GLY:HA3	41:BG:163:ALA:O	2.05	0.56
43:BI:8:PRO:HB3	43:BI:14:ASP:HA	1.87	0.56
43:BI:82:ARG:O	43:BI:88:ILE:HD12	2.05	0.56
46:BO:16:ALA:HB2	46:BO:52:VAL:HG21	1.87	0.56
47:BP:78:PRO:HA	47:BP:110:TYR:CZ	2.40	0.56
50:BS:15:ARG:HA	50:BS:17:ARG:HG3	1.86	0.56
50:BS:68:GLN:HA	50:BS:71:ARG:NH1	2.20	0.56
51:BT:32:TYR:CD2	51:BT:81:PRO:O	2.57	0.56
51:BT:38:ASN:CG	51:BT:39:ARG:N	2.62	0.56
51:BT:50:ILE:HG22	51:BT:62:THR:HB	1.87	0.56
53:BV:1:MET:HB2	53:BV:99:ILE:HG13	1.86	0.56
54:BW:1:MET:HE3	54:BW:2:GLU:N	2.20	0.56
57:BZ:97:GLU:HA	57:BZ:126:VAL:O	2.04	0.56
57:BZ:99:TYR:HA	57:BZ:124:ILE:O	2.05	0.56
1:CA:321:A:N6	1:CA:329:A:OP2	2.37	0.56
1:CA:559:A:H4'	1:CA:560:U:H5''	1.88	0.56
1:CA:814:A:N7	1:CA:816:A:C4	2.73	0.56
1:CA:833:U:H2'	1:CA:834:C:C6	2.41	0.56
1:CA:938:A:H4'	7:CG:95:ARG:HH22	1.68	0.56
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.40	0.56
1:CA:1285:A:H5''	21:CU:25:LYS:HD2	1.86	0.56
1:CA:1298:C:H4'	1:CA:1299:A:N3	2.20	0.56
1:CA:1325:C:H5''	21:CU:6:ARG:NH2	2.20	0.56
2:CB:34:ALA:C	2:CB:41:ILE:HB	2.30	0.56
2:CB:70:PHE:HB2	2:CB:92:TYR:CB	2.36	0.56
2:CB:214:ILE:C	2:CB:215:LEU:HD22	2.29	0.56
3:CC:134:ILE:HG21	3:CC:168:ALA:HB3	1.87	0.56
4:CD:199:ASN:C	4:CD:201:GLN:H	2.13	0.56
5:CE:6:PHE:HD2	5:CE:36:ASP:HB3	1.70	0.56
10:CJ:34:VAL:HA	10:CJ:74:ILE:HA	1.86	0.56
11:CK:50:TYR:HB3	11:CK:54:ARG:O	2.05	0.56
13:CM:111:LYS:O	13:CM:112:GLY:O	2.23	0.56
15:CO:6:GLU:N	15:CO:6:GLU:OE1	2.37	0.56
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:53:LEU:HD21	17:CQ:85:VAL:HG11	1.87	0.56
19:CS:12:ASP:HB3	19:CS:14:HIS:CD2	2.40	0.56
19:CS:29:ARG:HD3	19:CS:48:THR:OG1	2.05	0.56
22:CW:35:A:C6	58:CX:14:A:C2	2.92	0.56
25:D0:11:ARG:HH11	25:D0:11:ARG:CB	2.19	0.56
35:DA:284:U:H2'	35:DA:285:C:C6	2.39	0.56
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.48	0.56
35:DA:1203:G:H4'	47:DP:7:ARG:HG3	1.86	0.56
35:DA:1292:U:O2'	35:DA:1293:C:H5'	2.05	0.56
35:DA:1403:C:H5''	35:DA:1471:A:C1'	2.34	0.56
35:DA:1744:C:C2'	35:DA:1745:C:H5'	2.36	0.56
35:DA:1856:G:C2'	35:DA:1857:G:H5'	2.35	0.56
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.41	0.56
35:DA:2427:C:H5''	35:DA:2428:G:OP1	2.06	0.56
40:DF:132:VAL:HG13	40:DF:138:GLU:OE1	2.04	0.56
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.86	0.56
41:DG:6:ALA:HB3	41:DG:104:GLU:OE2	2.04	0.56
41:DG:18:GLU:OE2	41:DG:22:ARG:HB2	2.06	0.56
41:DG:41:GLN:HA	41:DG:155:MET:HB3	1.87	0.56
41:DG:52:ILE:HD13	41:DG:52:ILE:N	2.13	0.56
42:DH:16:SER:CB	42:DH:27:LYS:HB3	2.22	0.56
42:DH:137:ASP:HB2	42:DH:140:LYS:CE	2.34	0.56
43:DI:123:LEU:HD13	43:DI:124:GLY:N	2.19	0.56
45:DN:133:GLN:CG	45:DN:135:PRO:HD3	2.32	0.56
46:DO:7:TYR:CZ	46:DO:44:LYS:HG3	2.40	0.56
46:DO:63:VAL:HG11	46:DO:85:VAL:HG23	1.86	0.56
46:DO:64:ARG:HG2	46:DO:79:PHE:CD1	2.40	0.56
48:DQ:54:MET:HG2	48:DQ:64:ILE:HD13	1.87	0.56
50:DS:15:ARG:HA	50:DS:17:ARG:HG3	1.85	0.56
56:DY:27:VAL:HA	56:DY:28:LYS:NZ	2.20	0.56
56:DY:27:VAL:HA	56:DY:28:LYS:HE3	1.87	0.56
56:DY:28:LYS:H	56:DY:28:LYS:HZ1	1.49	0.56
1:AA:430:A:OP1	4:AD:9:CYS:HB2	2.05	0.56
1:AA:624:C:H5'	16:AP:11:SER:OG	2.05	0.56
1:AA:632:A:C3'	1:AA:633:G:H5''	2.34	0.56
1:AA:644:G:C5'	8:AH:92:ARG:HH21	2.18	0.56
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.06	0.56
1:AA:1370:G:H2'	1:AA:1371:G:H8	1.71	0.56
9:AI:86:VAL:HG11	9:AI:96:LEU:CD2	2.35	0.56
12:AL:38:ARG:NH2	24:AY:6:GLY:HA3	2.18	0.56
13:AM:91:ARG:HH21	13:AM:96:LEU:HB3	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.05	0.56
30:B5:33:CYS:CB	30:B5:36:CYS:HG	2.18	0.56
35:BA:522:G:H2'	35:BA:523:C:C6	2.41	0.56
35:BA:1747(A):G:C3'	35:BA:1748:G:H5''	2.35	0.56
38:BD:70:TRP:C	38:BD:70:TRP:CD1	2.84	0.56
38:BD:125:ILE:HG22	38:BD:125:ILE:O	2.06	0.56
41:BG:72:ARG:HH21	41:BG:86:MET:HE3	1.70	0.56
42:BH:91:GLY:CA	42:BH:160:LYS:HA	2.35	0.56
50:BS:16:ASN:O	50:BS:18:ILE:N	2.38	0.56
1:CA:913:A:OP2	12:CL:88:LYS:NZ	2.39	0.56
1:CA:1324:A:O4'	1:CA:1362:C:H4'	2.05	0.56
3:CC:71:ALA:HB1	3:CC:109:PRO:HB3	1.86	0.56
10:CJ:5:ARG:O	10:CJ:98:ILE:HA	2.05	0.56
15:CO:36:ILE:HD12	15:CO:63:ARG:CD	2.36	0.56
19:CS:41:VAL:HG22	19:CS:42:PRO:HD2	1.88	0.56
21:CU:6:ARG:CG	21:CU:15:ARG:HH12	2.19	0.56
27:D2:16:LEU:O	27:D2:67:LYS:NZ	2.39	0.56
31:D6:11:LEU:O	31:D6:23:THR:HA	2.06	0.56
31:D6:26:ASN:O	31:D6:27:LYS:HD3	2.05	0.56
35:DA:245:G:H2'	35:DA:246:C:H6	1.69	0.56
35:DA:506:G:H5''	35:DA:509:C:H1'	1.86	0.56
35:DA:832:G:H21	47:DP:53:GLY:HA3	1.70	0.56
35:DA:893:C:H2'	35:DA:894:C:C6	2.41	0.56
35:DA:921:G:H2'	35:DA:922:U:C6	2.40	0.56
35:DA:1352:U:O2'	35:DA:1353:A:H5'	2.04	0.56
35:DA:2876:G:O2'	35:DA:2877:G:H5'	2.06	0.56
39:DE:117:MET:CE	39:DE:124:GLY:HA3	2.36	0.56
41:DG:106:LEU:HD12	41:DG:107:LEU:HG	1.87	0.56
41:DG:135:LEU:HD22	41:DG:155:MET:HE1	1.86	0.56
42:DH:52:VAL:C	42:DH:65:HIS:HE1	2.03	0.56
42:DH:91:GLY:CA	42:DH:160:LYS:HA	2.35	0.56
43:DI:82:ARG:O	43:DI:88:ILE:HD12	2.06	0.56
46:DO:71:ARG:HG3	46:DO:71:ARG:NH1	2.20	0.56
53:DV:22:VAL:HG23	53:DV:92:THR:HG23	1.86	0.56
55:DX:18:TYR:C	55:DX:20:GLY:H	2.14	0.56
57:DZ:21:ALA:HB3	57:DZ:23:LYS:HG2	1.88	0.56
1:AA:166:G:H2'	1:AA:167:G:H8	1.70	0.56
1:AA:236:G:H2'	1:AA:237:C:C6	2.41	0.56
1:AA:586:C:O2'	1:AA:878:G:H4'	2.04	0.56
1:AA:632:A:H3'	1:AA:633:G:C5'	2.36	0.56
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1120:G:H1	1:AA:1153:C:H42	1.52	0.56
1:AA:1325:C:H5'	21:AU:6:ARG:NH2	2.21	0.56
4:AD:126:ILE:N	4:AD:126:ILE:CD1	2.67	0.56
5:AE:53:LEU:O	5:AE:57:LYS:HG3	2.06	0.56
5:AE:148:VAL:C	5:AE:150:ARG:H	2.13	0.56
9:AI:113:LYS:HD2	9:AI:113:LYS:H	1.70	0.56
13:AM:29:ARG:HD3	13:AM:64:TRP:CZ3	2.41	0.56
22:AV:53:G:C8	22:AV:53:G:H5'	2.39	0.56
26:B1:82:LEU:O	26:B1:84:GLY:N	2.39	0.56
27:B2:10:LEU:HD13	27:B2:14:ARG:HH12	1.71	0.56
32:B7:19:ARG:HH11	32:B7:19:ARG:HG2	1.70	0.56
35:BA:184:C:H2'	35:BA:185:U:H6	1.70	0.56
35:BA:1190:G:H5'	47:BP:35:HIS:HA	1.88	0.56
35:BA:1301:A:H2'	35:BA:1302:A:H3'	1.86	0.56
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.04	0.56
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.41	0.56
42:BH:63:SER:C	42:BH:64:LEU:HD22	2.30	0.56
42:BH:86:GLU:CD	42:BH:86:GLU:N	2.63	0.56
43:BI:82:ARG:HG2	43:BI:89:TYR:CD1	2.40	0.56
45:BN:18:ALA:HB1	45:BN:21:LYS:HB2	1.87	0.56
45:BN:58:ASP:O	45:BN:60:ILE:HG13	2.04	0.56
48:BQ:51:ARG:HH11	48:BQ:51:ARG:HG2	1.71	0.56
50:BS:56:LEU:HD22	50:BS:58:LEU:CD1	2.36	0.56
51:BT:31:SER:HG	51:BT:32:TYR:N	2.03	0.56
56:BY:95:LYS:HE2	56:BY:99:CYS:O	2.05	0.56
1:CA:67:C:H2'	1:CA:68:G:C8	2.40	0.56
1:CA:805:C:H2'	1:CA:806:C:H6	1.71	0.56
1:CA:1207:G:C2'	1:CA:1208:C:C6	2.88	0.56
1:CA:1224:G:C4'	13:CM:102:ARG:HE	2.16	0.56
1:CA:1283:G:O2'	1:CA:1284:C:H5'	2.05	0.56
2:CB:100:GLY:O	2:CB:101:MET:C	2.49	0.56
3:CC:134:ILE:CG2	3:CC:168:ALA:HB3	2.34	0.56
5:CE:148:VAL:C	5:CE:150:ARG:H	2.14	0.56
6:CF:19:LEU:CD2	6:CF:23:LYS:HE3	2.34	0.56
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.20	0.56
9:CI:86:VAL:HG11	9:CI:96:LEU:CD2	2.35	0.56
11:CK:69:ALA:HB1	11:CK:103:LEU:CD2	2.36	0.56
16:CP:59:TRP:HA	16:CP:62:VAL:HG22	1.87	0.56
27:D2:65:ASN:HB3	27:D2:69:ARG:HH21	1.69	0.56
33:D8:47:LYS:O	33:D8:48:PHE:HD2	1.89	0.56
35:DA:528:A:H2	35:DA:2043:C:C5'	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:898:C:H2'	35:DA:899:A:O4'	2.06	0.56
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.38	0.56
35:DA:2256:G:H2'	35:DA:2257:U:C6	2.41	0.56
38:DD:211:ARG:O	38:DD:215:LEU:HG	2.05	0.56
39:DE:61:ARG:N	39:DE:62:PRO:CD	2.68	0.56
40:DF:114:VAL:HG21	40:DF:202:PHE:CZ	2.40	0.56
46:DO:104:ARG:HB3	46:DO:104:ARG:CZ	2.35	0.56
47:DP:136:GLU:N	47:DP:136:GLU:OE1	2.39	0.56
48:DQ:27:VAL:HG23	48:DQ:137:TYR:CD1	2.41	0.56
53:DV:47:VAL:HB	53:DV:49:THR:O	2.05	0.56
1:AA:981:U:OP1	14:AN:6:LEU:HD21	2.06	0.56
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.41	0.56
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.88	0.56
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.21	0.56
13:AM:107:ALA:C	13:AM:109:THR:H	2.14	0.56
24:AY:64:TYR:HB3	24:AY:92:ILE:CD1	2.34	0.56
35:BA:154(A):C:H5	35:BA:171:G:H1	1.52	0.56
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.41	0.56
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.04	0.56
38:BD:31:LYS:HB3	38:BD:34:VAL:CG2	2.34	0.56
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.71	0.56
41:BG:36:LYS:HB3	41:BG:160:VAL:HB	1.88	0.56
45:BN:26:LEU:O	45:BN:30:ILE:HG13	2.06	0.56
45:BN:90:MET:HB3	45:BN:98:VAL:HG22	1.87	0.56
51:BT:32:TYR:HB3	51:BT:81:PRO:O	2.05	0.56
56:BY:7:VAL:HG21	56:BY:8:LYS:NZ	2.21	0.56
1:CA:129(A):G:N2	1:CA:189(F):U:H5''	2.21	0.56
1:CA:1107:C:H3'	1:CA:1108:G:H5''	1.87	0.56
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.70	0.56
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.04	0.56
6:CF:100:ASN:ND2	18:CR:23:LYS:NZ	2.53	0.56
13:CM:4:ILE:HG21	13:CM:22:ILE:HD11	1.86	0.56
16:CP:71:ARG:HB2	16:CP:71:ARG:HH11	1.68	0.56
27:D2:19:VAL:CG1	27:D2:23:LYS:HE2	2.33	0.56
27:D2:70:GLN:C	27:D2:72:ALA:H	2.13	0.56
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.05	0.56
35:DA:314:A:O2'	35:DA:315:G:H5'	2.05	0.56
35:DA:632:A:H8	35:DA:632:A:O5'	1.88	0.56
35:DA:716:A:H3'	35:DA:717:G:H5''	1.87	0.56
35:DA:856:C:C5	35:DA:857:C:H5	2.24	0.56
35:DA:2313:C:H5''	41:DG:91:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2533:A:C2'	35:DA:2534:A:H5'	2.36	0.56
36:DB:87:G:H2'	36:DB:88:C:H5''	1.88	0.56
40:DF:101:LEU:HD12	40:DF:102:PRO:HD2	1.87	0.56
41:DG:72:ARG:HD3	41:DG:86:MET:CA	2.35	0.56
42:DH:136:ILE:HD12	42:DH:137:ASP:N	2.21	0.56
47:DP:133:SER:HA	47:DP:136:GLU:CG	2.35	0.56
53:DV:13:ARG:HH11	53:DV:13:ARG:HG2	1.69	0.56
57:DZ:108:PRO:HB2	57:DZ:144:LEU:O	2.05	0.56
1:AA:59:A:H5'	1:AA:60:A:H5''	1.87	0.56
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.41	0.56
1:AA:1399:C:C2	1:AA:1502:A:N6	2.73	0.56
1:AA:1442:G:N7	1:AA:1442(B):A:C2	2.74	0.56
1:AA:1442(A):G:C2'	1:AA:1442(B):A:H5''	2.35	0.56
5:AE:33:VAL:HG11	5:AE:109:ILE:HA	1.86	0.56
5:AE:78:HIS:CD2	8:AH:107:LEU:HD12	2.38	0.56
7:AG:12:LEU:HD12	7:AG:21:VAL:O	2.06	0.56
7:AG:80:VAL:C	7:AG:82:GLY:H	2.13	0.56
10:AJ:46:ARG:HH11	10:AJ:46:ARG:HG2	1.71	0.56
11:AK:69:ALA:HB1	11:AK:103:LEU:CD2	2.36	0.56
20:AT:47:GLY:O	20:AT:49:ALA:N	2.39	0.56
21:AU:6:ARG:CG	21:AU:15:ARG:HH12	2.18	0.56
24:AY:64:TYR:CD1	24:AY:92:ILE:HG21	2.40	0.56
27:B2:55:ARG:HG2	27:B2:55:ARG:NH2	2.21	0.56
27:B2:70:GLN:C	27:B2:72:ALA:N	2.62	0.56
31:B6:33:LYS:HD3	31:B6:34:LEU:HG	1.86	0.56
33:B8:23:VAL:CG1	33:B8:46:ARG:HB3	2.36	0.56
35:BA:842:G:O2'	35:BA:843:G:H5'	2.06	0.56
35:BA:1517:G:O2'	35:BA:1518:U:H5'	2.06	0.56
35:BA:2127:G:H1'	35:BA:2173:A:C2	2.40	0.56
35:BA:2360:A:O2'	35:BA:2361:A:C5'	2.54	0.56
36:BB:38:C:O2	36:BB:48:A:H1'	2.06	0.56
38:BD:43:ARG:NH1	38:BD:44:ASN:HD21	2.03	0.56
38:BD:130:ALA:C	38:BD:131:LEU:HD23	2.30	0.56
38:BD:172:TYR:HD1	38:BD:185:VAL:O	1.88	0.56
40:BF:198:ALA:C	40:BF:200:GLU:N	2.61	0.56
41:BG:11:TYR:HA	41:BG:15:VAL:CG2	2.36	0.56
41:BG:152:LEU:HD12	41:BG:152:LEU:N	2.21	0.56
42:BH:136:ILE:HD12	42:BH:137:ASP:N	2.21	0.56
57:BZ:81:ARG:HB3	57:BZ:81:ARG:NH1	2.20	0.56
1:CA:538:G:O2'	1:CA:539:A:H5'	2.06	0.56
1:CA:1169:A:H2'	1:CA:1170:A:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:36:ASP:HA	3:CC:39:ILE:HD12	1.86	0.56
4:CD:200:GLU:CD	4:CD:200:GLU:H	2.14	0.56
10:CJ:40:LEU:HB3	10:CJ:41:PRO:CD	2.30	0.56
11:CK:17:GLY:N	11:CK:80:VAL:HG12	2.20	0.56
13:CM:107:ALA:C	13:CM:109:THR:H	2.13	0.56
17:CQ:50:LYS:HE3	17:CQ:51:TYR:CZ	2.41	0.56
21:CU:6:ARG:HE	21:CU:15:ARG:NH1	2.04	0.56
22:CV:34:C:H6	22:CV:34:C:OP1	1.89	0.56
30:D5:4:HIS:O	35:DA:2056:G:N2	2.38	0.56
31:D6:33:LYS:HD3	31:D6:34:LEU:HG	1.87	0.56
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.70	0.56
35:DA:1721:G:C2'	35:DA:1741:A:H61	2.19	0.56
35:DA:2469:A:O2'	48:DQ:56:ARG:HD2	2.06	0.56
38:DD:144:ALA:HB3	38:DD:192:THR:HG23	1.87	0.56
40:DF:130:ALA:C	40:DF:132:VAL:H	2.13	0.56
42:DH:54:ARG:HG2	42:DH:54:ARG:NH1	2.18	0.56
43:DI:37:VAL:HG12	43:DI:38:LEU:N	2.19	0.56
43:DI:99:GLU:CD	43:DI:100:ALA:N	2.64	0.56
45:DN:59:LYS:O	45:DN:60:ILE:C	2.47	0.56
47:DP:16:ARG:HD3	47:DP:17:LYS:N	2.21	0.56
48:DQ:55:VAL:HG23	48:DQ:56:ARG:N	2.21	0.56
57:DZ:39:VAL:HG21	57:DZ:44:PHE:HD2	1.69	0.56
2:AB:34:ALA:C	2:AB:41:ILE:HB	2.31	0.56
2:AB:74:LYS:HB3	2:AB:169:LYS:HE2	1.87	0.56
4:AD:35:ARG:C	4:AD:37:PRO:HD3	2.31	0.56
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.05	0.56
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.73	0.56
14:AN:4:LYS:HZ3	14:AN:4:LYS:HB2	1.71	0.56
17:AQ:50:LYS:HE3	17:AQ:51:TYR:CZ	2.40	0.56
19:AS:46:GLY:HA2	19:AS:61:TYR:OH	2.06	0.56
23:AX:16:A:O2'	23:AX:17:U:C4'	2.54	0.56
24:AY:49:ARG:CA	24:AY:66:ALA:HB2	2.36	0.56
27:B2:70:GLN:HG2	27:B2:71:ASN:HD22	1.71	0.56
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.40	0.56
35:BA:1744:C:C2'	35:BA:1745:C:H5'	2.35	0.56
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.41	0.56
39:BE:60:ASN:C	39:BE:62:PRO:HD2	2.31	0.56
39:BE:61:ARG:N	39:BE:62:PRO:CD	2.69	0.56
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.87	0.56
41:BG:34:LEU:HD23	41:BG:161:THR:HB	1.88	0.56
41:BG:52:ILE:HD13	41:BG:52:ILE:N	2.11	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:43:THR:O	48:BQ:46:GLN:HB2	2.05	0.56
50:BS:42:ASP:O	50:BS:43:GLU:HB2	2.05	0.56
50:BS:54:LEU:O	50:BS:57:LYS:HD2	2.05	0.56
50:BS:92:TYR:C	50:BS:94:TYR:H	2.13	0.56
56:BY:42:VAL:CG1	56:BY:65:ALA:HB3	2.36	0.56
57:BZ:5:LEU:HD12	57:BZ:47:VAL:HG21	1.88	0.56
1:CA:1031:G:H2'	1:CA:1032:G:O4'	2.04	0.56
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.06	0.56
1:CA:1437:C:H2'	1:CA:1438:G:C8	2.41	0.56
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.71	0.56
3:CC:42:LEU:HA	3:CC:45:LYS:CD	2.36	0.56
3:CC:132:ARG:HG2	3:CC:136:GLN:HB2	1.87	0.56
6:CF:45:LEU:O	6:CF:45:LEU:HD23	2.06	0.56
19:CS:19:VAL:HG12	19:CS:23:ASN:HD21	1.70	0.56
22:CW:35:A:C6	58:CX:14:A:H2	2.24	0.56
27:D2:30:ARG:HH11	27:D2:30:ARG:HG3	1.71	0.56
35:DA:925:C:H2'	35:DA:926:A:H5'	1.88	0.56
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.69	0.56
35:DA:1264:G:H3'	35:DA:1265:A:H5''	1.86	0.56
35:DA:2600:A:H2'	35:DA:2601:C:C6	2.41	0.56
38:DD:182:LEU:O	38:DD:271:ILE:HG13	2.06	0.56
41:DG:51:ARG:HA	41:DG:51:ARG:HE	1.70	0.56
45:DN:34:LEU:HD11	45:DN:119:ARG:O	2.04	0.56
47:DP:6:LEU:HD23	47:DP:6:LEU:H	1.70	0.56
47:DP:75:ILE:HD12	47:DP:75:ILE:N	2.20	0.56
47:DP:99:LEU:O	47:DP:99:LEU:HD23	2.06	0.56
47:DP:108:LYS:N	47:DP:108:LYS:HD2	2.21	0.56
50:DS:39:ILE:HG22	50:DS:48:LEU:HD13	1.87	0.56
1:AA:137:C:H42	1:AA:226:G:H1	1.52	0.56
1:AA:763:G:H2'	1:AA:764:C:H6	1.71	0.56
2:AB:52:GLU:CG	2:AB:56:ARG:HH12	2.11	0.56
3:AC:141:VAL:HG11	3:AC:202:ILE:CD1	2.31	0.56
8:AH:26:VAL:O	8:AH:27:PRO:C	2.47	0.56
8:AH:103:VAL:HB	8:AH:108:GLY:C	2.30	0.56
9:AI:121:ARG:NH2	9:AI:124:GLN:HE22	2.04	0.56
13:AM:26:GLY:O	13:AM:30:ALA:HB2	2.06	0.56
23:AX:16:A:HO2'	23:AX:17:U:C4'	2.19	0.56
31:B6:26:ASN:O	31:B6:27:LYS:HD3	2.06	0.56
33:B8:40:GLU:O	33:B8:43:GLN:N	2.38	0.56
35:BA:271(V):G:H2'	35:BA:271(W):G:O4'	2.05	0.56
35:BA:648:G:O4'	35:BA:2351:G:H5''	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1221:C:O2'	35:BA:1221(A):C:H5'	2.06	0.56
38:BD:11:PRO:C	38:BD:13:ARG:N	2.64	0.56
40:BF:2:LYS:NZ	40:BF:119:ARG:HG3	2.21	0.56
40:BF:21:ALA:C	40:BF:23:ASP:H	2.12	0.56
40:BF:199:TRP:O	40:BF:203:GLN:HG2	2.05	0.56
41:BG:41:GLN:HG2	41:BG:155:MET:HB3	1.88	0.56
41:BG:46:ALA:HB2	41:BG:53:LEU:HG	1.88	0.56
41:BG:121:ASN:HD22	41:BG:122:PRO:CD	2.17	0.56
46:BO:2:ILE:HD11	46:BO:82:ASN:ND2	2.08	0.56
51:BT:46:GLU:O	51:BT:65:LYS:HB2	2.06	0.56
55:BX:18:TYR:C	55:BX:20:GLY:H	2.14	0.56
55:BX:24:GLY:O	55:BX:83:VAL:HG22	2.06	0.56
1:CA:115:G:O2'	1:CA:116:A:OP2	2.24	0.56
1:CA:586:C:O2'	1:CA:878:G:H4'	2.05	0.56
1:CA:1069:C:H41	1:CA:1094:G:N2	2.03	0.56
1:CA:1234:C:H1'	1:CA:1364:U:O2	2.05	0.56
3:CC:70:VAL:O	3:CC:105:GLU:HA	2.06	0.56
3:CC:93:LYS:HZ3	3:CC:93:LYS:CB	2.08	0.56
3:CC:206:GLU:HG2	3:CC:207:VAL:N	2.21	0.56
6:CF:68:PRO:HG3	6:CF:71:ARG:HH21	1.71	0.56
7:CG:15:ASP:HB3	7:CG:19:GLY:H	1.67	0.56
7:CG:32:ARG:HG2	7:CG:32:ARG:NH1	2.20	0.56
8:CH:69:ARG:HG3	8:CH:76:PRO:HA	1.86	0.56
8:CH:121:ASP:HB2	8:CH:125:ARG:NH1	2.18	0.56
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	1.88	0.56
20:CT:14:LYS:HE2	20:CT:18:GLN:OE1	2.06	0.56
26:D1:82:LEU:HD22	26:D1:82:LEU:N	2.21	0.56
30:D5:20:ARG:HH12	54:DW:15:ARG:NE	2.04	0.56
31:D6:35:GLU:CB	31:D6:51:GLU:HB3	2.25	0.56
35:DA:814:C:H2'	35:DA:815:C:H6	1.71	0.56
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.41	0.56
35:DA:2314:C:O2'	35:DA:2315:G:H5'	2.06	0.56
35:DA:2383:G:O2'	35:DA:2384:G:H5'	2.06	0.56
35:DA:2828:C:O2'	35:DA:2829:C:H5'	2.05	0.56
42:DH:89:ILE:HD11	42:DH:95:ARG:HA	1.88	0.56
43:DI:102:SER:OG	43:DI:109:ILE:HD12	2.06	0.56
45:DN:17:ASP:O	45:DN:19:GLU:N	2.39	0.56
46:DO:69:ILE:HD12	46:DO:69:ILE:N	2.20	0.56
47:DP:41:ARG:NE	47:DP:41:ARG:HA	2.21	0.56
50:DS:88:ASP:CG	50:DS:89:ARG:N	2.64	0.56
52:DU:112:ARG:HH11	52:DU:112:ARG:CG	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:19:LYS:CG	53:DV:94:LEU:HB2	2.34	0.56
1:AA:1127:G:H21	1:AA:1147:C:H5	1.53	0.56
1:AA:1442(A):G:H3'	1:AA:1442(B):A:C5'	2.35	0.56
8:AH:69:ARG:HG3	8:AH:76:PRO:HA	1.88	0.56
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.30	0.56
25:B0:11:ARG:HH11	25:B0:11:ARG:CB	2.19	0.56
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.69	0.56
35:BA:288:C:O2'	35:BA:289:A:H5'	2.06	0.56
35:BA:322:A:H5'	35:BA:340:A:H1'	1.88	0.56
35:BA:869:G:O2'	35:BA:870:A:H5'	2.05	0.56
35:BA:926:A:H2'	35:BA:927:G:H8	1.71	0.56
35:BA:1316:U:O2'	35:BA:1317:A:H5'	2.06	0.56
35:BA:1693:U:H1'	38:BD:14:ARG:NH1	2.20	0.56
35:BA:1839:G:H8	35:BA:1839:G:H5'	1.71	0.56
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.06	0.56
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.71	0.56
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.88	0.56
40:BF:22:ALA:HB1	40:BF:26:ALA:HB2	1.86	0.56
42:BH:149:ARG:HA	42:BH:162:ILE:HG13	1.88	0.56
45:BN:36:GLY:O	45:BN:38:HIS:N	2.39	0.56
48:BQ:45:GLN:CD	48:BQ:45:GLN:H	2.14	0.56
50:BS:36:TYR:CD1	50:BS:36:TYR:N	2.74	0.56
50:BS:89:ARG:O	50:BS:90:GLY:O	2.24	0.56
51:BT:28:VAL:O	51:BT:29:ARG:NE	2.37	0.56
54:BW:29:LEU:O	54:BW:33:ARG:HG3	2.05	0.56
1:CA:556:C:O2'	1:CA:557:G:H5'	2.06	0.56
1:CA:688:G:H2'	1:CA:689:C:C6	2.39	0.56
1:CA:839:U:O2	1:CA:839:U:H2'	2.05	0.56
1:CA:1078:U:C1'	5:CE:130:ASN:HD21	2.06	0.56
1:CA:1081:G:H2'	1:CA:1082:G:H8	1.71	0.56
1:CA:1129:C:C4'	1:CA:1130:A:H5'	2.33	0.56
1:CA:1256:A:H5'	1:CA:1257:U:OP1	2.05	0.56
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.05	0.56
6:CF:100:ASN:HD21	18:CR:23:LYS:HG3	1.70	0.56
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.21	0.56
12:CL:4:ILE:HG23	12:CL:5:ASN:N	2.21	0.56
26:D1:3:LYS:HG3	26:D1:4:VAL:N	2.20	0.56
27:D2:4:SER:HA	27:D2:7:ARG:HG2	1.87	0.56
33:D8:61:LEU:N	33:D8:63:PRO:HD2	2.21	0.56
35:DA:38:A:H2'	35:DA:39:C:C6	2.41	0.56
35:DA:491:G:O2'	35:DA:492:A:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:510:C:H6	35:DA:510:C:O5'	1.89	0.56
35:DA:510:C:OP1	35:DA:512:G:O6	2.23	0.56
35:DA:909:A:H2'	35:DA:912:C:C5	2.40	0.56
35:DA:943:U:OP2	47:DP:38:GLN:CD	2.49	0.56
35:DA:1789:A:H5'	38:DD:221:VAL:HG12	1.87	0.56
35:DA:2855:C:H2'	35:DA:2856:C:H6	1.71	0.56
38:DD:130:ALA:C	38:DD:131:LEU:HD23	2.30	0.56
39:DE:184:VAL:C	39:DE:186:GLY:H	2.14	0.56
41:DG:36:LYS:HD2	41:DG:160:VAL:HG21	1.88	0.56
42:DH:57:ASP:O	42:DH:62:LYS:HE3	2.05	0.56
42:DH:88:LEU:C	42:DH:88:LEU:HD13	2.31	0.56
43:DI:93:THR:O	43:DI:97:ILE:HG13	2.05	0.56
46:DO:32:TYR:N	46:DO:32:TYR:CD1	2.72	0.56
46:DO:86:ILE:O	46:DO:87:ILE:HD13	2.06	0.56
47:DP:6:LEU:HD23	47:DP:6:LEU:N	2.21	0.56
49:DR:66:VAL:HG11	49:DR:79:LEU:HD12	1.88	0.56
50:DS:92:TYR:C	50:DS:94:TYR:H	2.13	0.56
52:DU:53:ARG:HH11	52:DU:53:ARG:HG3	1.71	0.56
52:DU:88:ILE:O	52:DU:88:ILE:HG13	2.05	0.56
56:DY:14:LEU:HG	56:DY:15:VAL:N	2.19	0.56
56:DY:31:LEU:HD23	56:DY:36:ALA:O	2.06	0.56
57:DZ:121:HIS:C	57:DZ:123:ASP:H	2.13	0.56
1:AA:259:G:H1	1:AA:267:C:H42	1.54	0.55
1:AA:262:A:H2'	1:AA:263:A:C8	2.40	0.55
1:AA:1221:G:C4'	19:AS:77:THR:HG21	2.26	0.55
2:AB:170:GLU:C	2:AB:172:ILE:HD12	2.30	0.55
2:AB:214:ILE:O	2:AB:215:LEU:HD22	2.06	0.55
5:AE:64:ARG:HH11	5:AE:64:ARG:HG3	1.70	0.55
13:AM:4:ILE:HG21	13:AM:22:ILE:HD11	1.88	0.55
13:AM:111:LYS:O	13:AM:112:GLY:O	2.24	0.55
16:AP:49:LEU:HD11	16:AP:73:LEU:HB3	1.86	0.55
27:B2:47:ASN:ND2	35:BA:94(A):G:H21	2.04	0.55
35:BA:492:A:H2'	35:BA:493:G:O4'	2.06	0.55
35:BA:1278:A:H5''	49:BR:36:THR:HG22	1.87	0.55
35:BA:2142:C:H42	35:BA:2148:G:H1	1.52	0.55
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.40	0.55
35:BA:2563:U:H4'	46:BO:28:SER:HA	1.88	0.55
38:BD:77:ALA:HB2	38:BD:97:TYR:CD2	2.41	0.55
39:BE:117:MET:CE	39:BE:124:GLY:HA3	2.37	0.55
41:BG:135:LEU:O	41:BG:154:GLY:HA3	2.06	0.55
54:BW:10:VAL:O	54:BW:11:ARG:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:7:VAL:HG21	56:BY:8:LYS:HZ1	1.71	0.55
1:CA:59:A:H5''	1:CA:60:A:H5''	1.86	0.55
1:CA:341:C:H2'	1:CA:342:C:H6	1.70	0.55
1:CA:976:G:P	14:CN:32:SER:H	2.30	0.55
1:CA:1152:A:H5''	10:CJ:13:HIS:CE1	2.41	0.55
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.69	0.55
12:CL:40:VAL:HG23	12:CL:52:VAL:CG2	2.37	0.55
17:CQ:5:VAL:HG22	17:CQ:60:ILE:HA	1.86	0.55
18:CR:25:THR:HG22	18:CR:25:THR:O	2.06	0.55
22:CV:34:C:C3'	22:CV:35:A:H5''	2.36	0.55
22:CV:36:U:H3'	22:CV:36:U:H6	1.71	0.55
26:D1:7:ILE:HD13	26:D1:62:VAL:HB	1.88	0.55
35:DA:484:C:H2'	35:DA:485:C:C6	2.39	0.55
35:DA:522:G:H2'	35:DA:523:C:C6	2.41	0.55
35:DA:1657:C:O2'	35:DA:1658:C:H5'	2.06	0.55
35:DA:1744:C:H2'	35:DA:1745:C:H5'	1.87	0.55
35:DA:2662:A:H2'	35:DA:2663:G:O4'	2.06	0.55
35:DA:2882:A:OP1	49:DR:96:ARG:HD3	2.05	0.55
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.40	0.55
36:DB:38:C:O2	36:DB:48:A:H1'	2.06	0.55
42:DH:86:GLU:CD	42:DH:86:GLU:N	2.63	0.55
42:DH:118:PRO:HG2	42:DH:121:ILE:HG13	1.88	0.55
45:DN:132:ALA:O	45:DN:133:GLN:HB3	2.06	0.55
47:DP:139:LYS:C	47:DP:141:ALA:H	2.15	0.55
51:DT:50:ILE:HG22	51:DT:62:THR:HB	1.88	0.55
56:DY:2:ARG:N	56:DY:4:LYS:HG3	2.21	0.55
1:AA:707:C:O2	11:AK:39:PRO:HD3	2.07	0.55
2:AB:155:LEU:HD21	2:AB:159:PRO:HG3	1.88	0.55
3:AC:94:LEU:H	3:AC:94:LEU:CD2	2.05	0.55
4:AD:15:GLU:HG3	4:AD:63:LYS:HE2	1.87	0.55
4:AD:61:LYS:HG3	4:AD:203:VAL:HG13	1.88	0.55
5:AE:78:HIS:HD2	8:AH:107:LEU:CD1	2.19	0.55
5:AE:107:ARG:C	5:AE:109:ILE:N	2.64	0.55
11:AK:20:TYR:CZ	11:AK:83:ILE:HD12	2.41	0.55
15:AO:32:LEU:HD13	15:AO:63:ARG:HG3	1.88	0.55
17:AQ:53:LEU:HD23	17:AQ:54:GLY:N	2.21	0.55
19:AS:19:VAL:HG12	19:AS:23:ASN:HD21	1.71	0.55
24:AY:64:TYR:CD1	24:AY:92:ILE:HG23	2.41	0.55
24:AY:93:LYS:CA	24:AY:96:LEU:OXT	2.55	0.55
26:B1:44:PRO:HG2	26:B1:46:LEU:CD1	2.34	0.55
29:B4:6:HIS:HB3	41:BG:67:LYS:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:36:LYS:O	33:B8:37:SER:C	2.49	0.55
34:B9:11:CYS:SG	34:B9:32:HIS:CE1	2.99	0.55
35:BA:38:A:H2'	35:BA:39:C:C6	2.41	0.55
35:BA:245:G:H2'	35:BA:246:C:H6	1.72	0.55
35:BA:926:A:H5'	35:BA:926:A:C8	2.41	0.55
35:BA:1921:G:H2'	35:BA:1922:G:H8	1.71	0.55
35:BA:2443:C:O2'	35:BA:2444:G:H5'	2.06	0.55
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.41	0.55
35:BA:2567:G:H2'	35:BA:2568:C:C6	2.41	0.55
35:BA:2889:C:H2'	35:BA:2891:G:O4'	2.05	0.55
41:BG:167:GLU:O	41:BG:169:ALA:N	2.37	0.55
42:BH:88:LEU:HD23	42:BH:130:ARG:HG3	1.88	0.55
47:BP:13:ASN:O	47:BP:15:ARG:N	2.40	0.55
1:CA:992:U:H2'	1:CA:1043:C:H42	1.71	0.55
1:CA:1409:C:N4	1:CA:1491:G:H1	2.04	0.55
1:CA:1485:U:O2'	1:CA:1486:G:H5'	2.05	0.55
11:CK:32:ILE:HD13	11:CK:72:ALA:HB2	1.87	0.55
12:CL:66:TYR:HB3	12:CL:96:HIS:CD2	2.41	0.55
15:CO:8:LYS:HG2	15:CO:12:ILE:HD11	1.86	0.55
20:CT:54:LYS:HA	20:CT:57:ARG:NH2	2.22	0.55
22:CV:21:A:H61	22:CV:46:G:H2'	1.71	0.55
22:CV:59:A:C2'	22:CV:60:U:H5'	2.36	0.55
26:D1:52:ARG:O	26:D1:53:VAL:O	2.23	0.55
33:D8:8:LYS:HD2	33:D8:8:LYS:N	2.20	0.55
35:DA:510:C:C4	35:DA:511:U:C4	2.94	0.55
35:DA:1453:U:OP1	49:DR:77:ARG:HD3	2.06	0.55
35:DA:1678:G:N2	35:DA:1989:G:H22	2.04	0.55
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.36	0.55
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.06	0.55
41:DG:111:LEU:HD21	41:DG:120:LEU:HD21	1.87	0.55
42:DH:63:SER:C	42:DH:64:LEU:HD22	2.31	0.55
42:DH:84:SER:O	42:DH:85:LYS:HB3	2.05	0.55
42:DH:149:ARG:HA	42:DH:162:ILE:HG13	1.89	0.55
47:DP:39:LYS:O	47:DP:40:SER:HB3	2.05	0.55
48:DQ:134:ARG:HA	48:DQ:137:TYR:CD2	2.42	0.55
53:DV:24:LYS:N	53:DV:92:THR:HG22	2.22	0.55
57:DZ:128:VAL:HG13	57:DZ:129:SER:O	2.05	0.55
1:AA:33:A:H2'	1:AA:34:C:C5'	2.37	0.55
1:AA:1187:G:OP1	9:AI:113:LYS:HE2	2.06	0.55
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.70	0.55
4:AD:62:GLN:O	4:AD:66:ARG:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:33:VAL:HG12	14:AN:40:CYS:CA	2.37	0.55
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.87	0.55
22:AV:40:C:O2'	22:AV:41:C:H5'	2.05	0.55
22:AV:55:U:C6	22:AV:57:A:OP2	2.59	0.55
26:B1:52:ARG:HH11	26:B1:56:GLN:C	2.15	0.55
33:B8:46:ARG:HG2	33:B8:46:ARG:NH1	2.22	0.55
35:BA:814:C:H2'	35:BA:815:C:H6	1.70	0.55
35:BA:1789:A:H5'	38:BD:221:VAL:HG12	1.89	0.55
35:BA:2019:A:H4'	52:BU:34:LYS:HD2	1.88	0.55
35:BA:2732:G:H3'	35:BA:2733:A:H5'	1.83	0.55
36:BB:110:G:H2'	36:BB:111:G:H8	1.70	0.55
38:BD:176:ARG:HH11	38:BD:176:ARG:HG2	1.71	0.55
39:BE:181:LEU:HD21	51:BT:7:ILE:CG2	2.35	0.55
40:BF:67:GLN:O	40:BF:67:GLN:CG	2.37	0.55
42:BH:57:ASP:O	42:BH:62:LYS:HE3	2.05	0.55
42:BH:88:LEU:HD13	42:BH:88:LEU:C	2.32	0.55
43:BI:79:ILE:C	43:BI:81:VAL:H	2.13	0.55
47:BP:40:SER:HB3	47:BP:41:ARG:NH2	2.22	0.55
47:BP:99:LEU:O	47:BP:99:LEU:HD23	2.06	0.55
50:BS:89:ARG:CB	50:BS:92:TYR:HB3	2.32	0.55
54:BW:51:LEU:C	54:BW:51:LEU:HD13	2.30	0.55
57:BZ:22:GLY:O	57:BZ:41:LEU:HB2	2.05	0.55
57:BZ:59:LEU:HG	57:BZ:69:THR:OG1	2.07	0.55
1:CA:99:U:H2'	1:CA:100:C:C6	2.41	0.55
1:CA:936:C:H2'	1:CA:937:A:C8	2.41	0.55
1:CA:1004:A:N6	1:CA:1034:G:H2'	2.19	0.55
2:CB:74:LYS:HB3	2:CB:169:LYS:HE2	1.88	0.55
2:CB:102:LEU:HD12	2:CB:102:LEU:H	1.71	0.55
2:CB:200:ILE:O	2:CB:200:ILE:HD12	2.07	0.55
4:CD:61:LYS:HG3	4:CD:203:VAL:HG13	1.88	0.55
4:CD:101:LEU:CD2	4:CD:121:VAL:HG13	2.33	0.55
27:D2:50:ILE:O	27:D2:51:ARG:C	2.48	0.55
27:D2:69:ARG:HB3	27:D2:70:GLN:OE1	2.06	0.55
35:DA:612:C:C3'	35:DA:613:G:H5''	2.37	0.55
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.73	0.55
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.41	0.55
35:DA:1517:G:O2'	35:DA:1518:U:H5'	2.05	0.55
35:DA:1747(A):G:C3'	35:DA:1748:G:H5''	2.37	0.55
35:DA:2681:C:H5	35:DA:2725:A:N6	1.95	0.55
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.72	0.55
39:DE:78:LEU:O	39:DE:79:ARG:HD2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:4:VAL:HG22	40:DF:19:GLU:CD	2.32	0.55
40:DF:101:LEU:O	40:DF:106:ARG:NH1	2.39	0.55
43:DI:68:LEU:HD13	43:DI:108:THR:HB	1.88	0.55
45:DN:58:ASP:O	45:DN:60:ILE:N	2.39	0.55
47:DP:78:PRO:HA	47:DP:110:TYR:CE1	2.41	0.55
48:DQ:21:THR:HG23	48:DQ:101:ARG:HB2	1.87	0.55
49:DR:84:ALA:HB3	49:DR:85:PRO:HD3	1.88	0.55
53:DV:5:VAL:HG21	53:DV:35:LEU:CG	2.36	0.55
55:DX:18:TYR:O	55:DX:20:GLY:N	2.40	0.55
56:DY:4:LYS:HD2	56:DY:5:MET:N	2.21	0.55
1:AA:171:A:H2'	1:AA:172:A:C8	2.42	0.55
1:AA:828:A:H2'	1:AA:829:G:O4'	2.07	0.55
1:AA:918:A:H2'	1:AA:919:A:C8	2.41	0.55
1:AA:1107:C:OP1	3:AC:174:PRO:HG3	2.06	0.55
1:AA:1442(A):G:H3'	1:AA:1442(B):A:H5''	1.88	0.55
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.31	0.55
7:AG:54:THR:HG22	7:AG:56:GLN:H	1.71	0.55
19:AS:33:THR:HG22	19:AS:34:TRP:H	1.70	0.55
19:AS:63:THR:HG22	19:AS:66:MET:SD	2.47	0.55
22:AV:38:A:C2	22:AV:39:C:H1'	2.41	0.55
24:AY:74:SER:CA	24:AY:75:PHE:CD1	2.87	0.55
35:BA:34:C:H2'	35:BA:35:G:H5'	1.88	0.55
35:BA:2883:A:H5'	35:BA:2884:U:H5'	1.89	0.55
41:BG:138:GLN:HE21	41:BG:153:ARG:N	2.05	0.55
49:BR:10:LEU:HB3	49:BR:17:ARG:CD	2.37	0.55
51:BT:91:ARG:HB3	51:BT:116:ALA:CA	2.31	0.55
57:BZ:166:SER:OG	57:BZ:168:GLU:N	2.40	0.55
1:CA:1070:U:O2'	1:CA:1071:C:H5'	2.06	0.55
1:CA:1176:A:H2'	1:CA:1177:G:C8	2.40	0.55
1:CA:1190:G:OP1	3:CC:4:LYS:HA	2.05	0.55
4:CD:184:LYS:HB3	4:CD:184:LYS:HZ3	1.69	0.55
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.37	0.55
8:CH:97:VAL:CG1	8:CH:98:LYS:N	2.69	0.55
15:CO:67:LEU:HB3	15:CO:78:TYR:HE1	1.72	0.55
22:CV:33:U:O2	22:CV:35:A:H8	1.89	0.55
58:CX:19:G:H5''	58:CX:19:G:C4	2.34	0.55
27:D2:11:GLU:O	27:D2:15:LYS:HD3	2.06	0.55
27:D2:45:SER:O	27:D2:46:GLN:CD	2.50	0.55
36:DB:7:G:H3'	36:DB:8:U:C5'	2.20	0.55
41:DG:59:GLU:HG3	41:DG:60:LEU:H	1.70	0.55
43:DI:83:ALA:N	43:DI:89:TYR:HD1	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:114:ILE:HD12	47:DP:115:LEU:N	2.21	0.55
51:DT:98:LYS:HB3	51:DT:100:TYR:CE1	2.41	0.55
56:DY:7:VAL:CB	56:DY:8:LYS:HD2	2.33	0.55
1:AA:1298:C:H4'	1:AA:1299:A:N3	2.22	0.55
3:AC:206:GLU:HG2	3:AC:207:VAL:N	2.22	0.55
4:AD:100:ARG:CZ	4:AD:137:SER:HA	2.36	0.55
8:AH:97:VAL:CG1	8:AH:98:LYS:N	2.69	0.55
9:AI:97:LYS:C	9:AI:99:LEU:H	2.13	0.55
11:AK:17:GLY:N	11:AK:80:VAL:HG12	2.21	0.55
12:AL:38:ARG:NH2	24:AY:5:TYR:O	2.33	0.55
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.31	0.55
16:AP:76:GLN:C	16:AP:78:GLY:N	2.63	0.55
26:B1:52:ARG:O	26:B1:56:GLN:O	2.25	0.55
35:BA:796:C:H2'	35:BA:797:C:C6	2.41	0.55
35:BA:909:A:H2'	35:BA:912:C:C5	2.42	0.55
35:BA:1678:G:N2	35:BA:1989:G:H22	2.04	0.55
35:BA:1856:G:C2'	35:BA:1857:G:H5'	2.36	0.55
40:BF:34:TRP:CZ2	47:BP:12:ALA:HB2	2.42	0.55
45:BN:19:GLU:CD	45:BN:20:GLY:N	2.64	0.55
47:BP:25:SER:C	47:BP:30:THR:HG23	2.32	0.55
50:BS:18:ILE:O	50:BS:20:ARG:N	2.38	0.55
50:BS:71:ARG:HH11	50:BS:71:ARG:HG3	1.72	0.55
53:BV:59:ALA:HB2	53:BV:96:ILE:HD13	1.87	0.55
55:BX:14:SER:O	55:BX:15:GLU:C	2.50	0.55
57:BZ:66:SER:C	57:BZ:67:LEU:HD12	2.32	0.55
1:CA:401:C:OP2	4:CD:73:ARG:NE	2.39	0.55
1:CA:774:G:H2'	1:CA:775:G:H8	1.71	0.55
1:CA:1207:G:C2'	1:CA:1208:C:H6	2.18	0.55
1:CA:1446:U:H4'	1:CA:1447:A:C8	2.42	0.55
4:CD:30:LYS:C	4:CD:32:ALA:N	2.59	0.55
4:CD:190:ASP:O	4:CD:194:LEU:HD23	2.06	0.55
7:CG:12:LEU:HD12	7:CG:21:VAL:O	2.05	0.55
7:CG:15:ASP:HB3	7:CG:19:GLY:CA	2.36	0.55
7:CG:146:GLU:CA	7:CG:149:ARG:HB2	2.36	0.55
9:CI:88:TYR:O	9:CI:89:ASN:HB2	2.05	0.55
11:CK:102:GLY:C	11:CK:103:LEU:HD22	2.31	0.55
13:CM:97:PRO:C	13:CM:98:VAL:HA	2.32	0.55
16:CP:76:GLN:C	16:CP:78:GLY:N	2.64	0.55
18:CR:33:ASP:O	18:CR:40:LEU:HD11	2.05	0.55
21:CU:6:ARG:NH2	21:CU:15:ARG:NH2	2.51	0.55
22:CV:55:U:C6	22:CV:55:U:H5'	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:66:C:C2'	22:CW:67:C:H5'	2.36	0.55
25:D0:77:ARG:NH2	35:DA:857:C:OP1	2.37	0.55
26:D1:75:GLU:O	26:D1:77:ALA:N	2.39	0.55
34:D9:7:VAL:HG12	34:D9:34:GLN:NE2	2.19	0.55
35:DA:360:G:H2'	35:DA:361:G:C8	2.42	0.55
35:DA:873:G:O2'	35:DA:874:G:H5'	2.06	0.55
35:DA:958:U:H5''	48:DQ:14:ARG:HD3	1.89	0.55
35:DA:2562:U:H1'	46:DO:23:ARG:HE	1.71	0.55
38:DD:168:ARG:O	38:DD:169:GLU:HB2	2.06	0.55
39:DE:170:LEU:HB3	39:DE:184:VAL:HG12	1.88	0.55
47:DP:62:LEU:H	47:DP:62:LEU:HD22	1.72	0.55
49:DR:17:ARG:O	49:DR:20:LEU:HB3	2.06	0.55
55:DX:11:PRO:HB3	55:DX:92:LEU:HD21	1.87	0.55
57:DZ:109:ALA:HB1	57:DZ:146:ILE:HG13	1.89	0.55
1:AA:222:U:H2'	1:AA:223:U:C6	2.42	0.55
1:AA:313:A:H2'	1:AA:314:C:C6	2.42	0.55
1:AA:692:U:H2'	1:AA:694:A:OP2	2.07	0.55
1:AA:997:U:H2'	1:AA:998:G:C8	2.42	0.55
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.42	0.55
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.42	0.55
2:AB:34:ALA:O	2:AB:41:ILE:HB	2.06	0.55
3:AC:134:ILE:O	3:AC:138:VAL:HG23	2.07	0.55
4:AD:155:LEU:HB2	4:AD:158:ILE:HB	1.87	0.55
11:AK:105:VAL:HB	11:AK:108:ILE:HD11	1.89	0.55
16:AP:28:ARG:NH1	16:AP:29:ASP:OD2	2.39	0.55
18:AR:25:THR:HG22	18:AR:25:THR:O	2.06	0.55
20:AT:14:LYS:HE2	20:AT:18:GLN:OE1	2.06	0.55
22:AV:55:U:C5	22:AV:57:A:OP2	2.59	0.55
25:B0:51:VAL:CG2	25:B0:81:VAL:HG23	2.36	0.55
26:B1:26:ARG:HH11	26:B1:26:ARG:HG3	1.72	0.55
26:B1:57:GLU:OE1	26:B1:57:GLU:O	2.25	0.55
26:B1:73:LEU:CD1	26:B1:94:LEU:HD22	2.30	0.55
29:B4:12:ALA:HB1	29:B4:29:PRO:HA	1.89	0.55
29:B4:14:ILE:HD12	29:B4:14:ILE:N	2.21	0.55
30:B5:33:CYS:HG	30:B5:46:CYS:HG	1.54	0.55
32:B7:30:VAL:HG22	32:B7:33:ARG:HH12	1.72	0.55
33:B8:6:THR:OG1	33:B8:8:LYS:HE3	2.06	0.55
35:BA:832:G:H21	47:BP:53:GLY:CA	2.20	0.55
35:BA:898:C:H2'	35:BA:899:A:O4'	2.06	0.55
35:BA:1204:A:N1	35:BA:1241:A:H2	2.04	0.55
35:BA:1744:C:H2'	35:BA:1745:C:H5'	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2161:C:H2'	35:BA:2162:G:O4'	2.06	0.55
35:BA:2383:G:O2'	35:BA:2384:G:H5'	2.06	0.55
35:BA:2619:C:O2'	35:BA:2620:C:H5'	2.06	0.55
37:BC:82:LYS:C	37:BC:86:ALA:HB3	2.32	0.55
38:BD:182:LEU:H	38:BD:272:ALA:HB3	1.72	0.55
40:BF:135:LYS:HB3	40:BF:138:GLU:HG3	1.88	0.55
40:BF:192:LEU:CD2	40:BF:194:MET:HE2	2.31	0.55
47:BP:140:ALA:O	47:BP:141:ALA:CB	2.54	0.55
51:BT:36:GLU:O	51:BT:37:GLY:C	2.49	0.55
55:BX:66:LEU:HD13	55:BX:66:LEU:C	2.32	0.55
57:BZ:39:VAL:HG21	57:BZ:44:PHE:HD2	1.72	0.55
57:BZ:39:VAL:HG23	57:BZ:40:ASP:N	2.22	0.55
1:CA:60:A:H8	1:CA:60:A:P	2.30	0.55
1:CA:513:C:H2'	1:CA:514:C:C6	2.41	0.55
1:CA:1120:G:H1	1:CA:1153:C:H42	1.55	0.55
3:CC:44:GLU:OE1	3:CC:52:LEU:HD21	2.06	0.55
8:CH:29:SER:HB3	8:CH:32:LYS:HG3	1.87	0.55
8:CH:103:VAL:HB	8:CH:108:GLY:C	2.30	0.55
11:CK:103:LEU:HD22	11:CK:103:LEU:N	2.22	0.55
12:CL:17:LYS:HD3	12:CL:17:LYS:N	2.21	0.55
15:CO:66:LEU:HD12	15:CO:66:LEU:N	2.21	0.55
20:CT:12:ALA:O	20:CT:15:ARG:HB2	2.06	0.55
29:D4:14:ILE:O	29:D4:21:VAL:HA	2.07	0.55
35:DA:860:U:O2	35:DA:860:U:O4'	2.25	0.55
35:DA:977:G:O2'	35:DA:978:G:H5'	2.06	0.55
35:DA:1915:U:H2'	35:DA:1916:A:C5'	2.36	0.55
35:DA:2639:A:H2'	35:DA:2640:G:H5'	1.88	0.55
35:DA:2746:U:C2'	35:DA:2747:G:H5'	2.37	0.55
36:DB:17:C:H2'	36:DB:18:G:O4'	2.06	0.55
36:DB:107:G:O2'	36:DB:108:U:H5'	2.06	0.55
38:DD:24:ILE:HD12	38:DD:24:ILE:C	2.31	0.55
45:DN:55:VAL:HG22	45:DN:126:PRO:CA	2.35	0.55
50:DS:74:ALA:HB1	50:DS:103:GLU:HG2	1.89	0.55
52:DU:92:ARG:CG	52:DU:94:ASN:HB3	2.37	0.55
55:DX:29:TRP:CE3	55:DX:78:LYS:HB3	2.42	0.55
57:DZ:139:VAL:HG11	57:DZ:155:LEU:HB3	1.88	0.55
57:DZ:144:LEU:CG	57:DZ:150:LEU:HD22	2.32	0.55
1:AA:356:A:H1'	1:AA:368:U:O2'	2.07	0.55
1:AA:711:G:O2'	1:AA:712:A:H5'	2.06	0.55
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.07	0.55
2:AB:12:GLU:OE2	2:AB:44:LEU:HD12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:155:LEU:CD2	2:AB:159:PRO:HG3	2.37	0.55
3:AC:16:ARG:NE	3:AC:54:ARG:HH21	2.00	0.55
3:AC:126:ARG:C	3:AC:127:ARG:HD2	2.32	0.55
4:AD:156:GLU:HG2	4:AD:160:GLN:NE2	2.21	0.55
6:AF:3:ARG:HB3	6:AF:93:SER:HB2	1.89	0.55
6:AF:28:ARG:HH11	6:AF:28:ARG:HG3	1.72	0.55
7:AG:57:GLU:C	7:AG:59:LEU:H	2.14	0.55
11:AK:96:ARG:HH11	11:AK:96:ARG:HG2	1.71	0.55
12:AL:24:LEU:C	12:AL:26:GLY:H	2.14	0.55
19:AS:47:HIS:O	19:AS:62:ILE:HG22	2.06	0.55
22:AW:34:C:H2'	22:AW:35:A:C8	2.42	0.55
23:AX:23:A:O2'	23:AX:24:A:C8	2.60	0.55
33:B8:48:PHE:O	33:B8:49:VAL:CG2	2.50	0.55
35:BA:150:C:H2'	35:BA:151:C:C6	2.42	0.55
35:BA:587:C:C5	47:BP:33:ARG:HD3	2.42	0.55
35:BA:1762:A:H8	35:BA:1762:A:O5'	1.90	0.55
35:BA:1991:U:H2'	35:BA:1992:G:H5''	1.88	0.55
35:BA:2469:A:O2'	48:BQ:56:ARG:HD2	2.07	0.55
35:BA:2584:U:H2'	35:BA:2585:U:H2'	1.88	0.55
38:BD:186:HIS:HD2	38:BD:188:GLU:H	1.55	0.55
40:BF:130:ALA:C	40:BF:132:VAL:H	2.14	0.55
42:BH:15:VAL:HG23	42:BH:16:SER:N	2.22	0.55
42:BH:118:PRO:HG2	42:BH:121:ILE:HG13	1.88	0.55
43:BI:52:ARG:HH11	43:BI:53:ALA:CB	2.20	0.55
45:BN:132:ALA:O	45:BN:133:GLN:HB3	2.05	0.55
46:BO:71:ARG:HH12	51:BT:74:ARG:NH2	2.05	0.55
47:BP:57:THR:HG23	47:BP:59:LEU:HB3	1.89	0.55
52:BU:83:LEU:H	52:BU:83:LEU:CD1	2.19	0.55
55:BX:18:TYR:O	55:BX:20:GLY:N	2.40	0.55
57:BZ:61:LEU:C	57:BZ:63:ASP:H	2.15	0.55
1:CA:501:C:H2'	1:CA:502:G:C8	2.36	0.55
1:CA:660:G:H2'	1:CA:661:G:H8	1.72	0.55
1:CA:707:C:O2	11:CK:39:PRO:HD3	2.06	0.55
1:CA:862:C:C2'	1:CA:863:U:H5'	2.37	0.55
1:CA:947:G:H2'	1:CA:948:C:C6	2.41	0.55
1:CA:977:A:H2'	1:CA:978:A:H5'	1.89	0.55
1:CA:1187:G:OP1	9:CI:113:LYS:HE2	2.07	0.55
3:CC:9:GLY:HA3	14:CN:49:HIS:HA	1.88	0.55
6:CF:97:PHE:HD2	18:CR:31:LEU:HD21	1.71	0.55
10:CJ:46:ARG:HH11	10:CJ:46:ARG:HG2	1.72	0.55
13:CM:91:ARG:HB2	13:CM:98:VAL:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:104:ARG:O	13:CM:105:THR:HG23	2.06	0.55
14:CN:41:ARG:HE	14:CN:42:ILE:CD1	2.20	0.55
22:CV:55:U:C2'	22:CV:56:C:C5	2.89	0.55
26:D1:82:LEU:C	26:D1:83:GLU:HG2	2.31	0.55
35:DA:1766:U:O2'	35:DA:1767:C:H5'	2.06	0.55
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.07	0.55
35:DA:2533:A:H2'	35:DA:2534:A:H5'	1.88	0.55
35:DA:2889:C:H2'	35:DA:2891:G:O4'	2.07	0.55
38:DD:79:VAL:CG2	38:DD:111:LEU:HD11	2.31	0.55
39:DE:52:LEU:HD12	39:DE:53:PRO:HD2	1.89	0.55
39:DE:78:LEU:H	39:DE:78:LEU:HD12	1.70	0.55
39:DE:176:ILE:HG22	39:DE:176:ILE:O	2.07	0.55
41:DG:43:LEU:CD2	41:DG:90:LEU:HD13	2.37	0.55
42:DH:8:PRO:O	42:DH:9:ILE:CB	2.55	0.55
42:DH:62:LYS:C	42:DH:64:LEU:H	2.14	0.55
50:DS:50:SER:O	50:DS:76:LYS:HE2	2.07	0.55
51:DT:30:VAL:HG13	51:DT:84:GLN:HB2	1.88	0.55
52:DU:70:ARG:HA	52:DU:74:LEU:O	2.07	0.55
56:DY:81:LYS:CE	56:DY:97:ARG:HH21	2.19	0.55
1:AA:129(A):G:N2	1:AA:189(F):U:H5''	2.22	0.55
1:AA:178:C:C3'	1:AA:179:A:H5''	2.37	0.55
1:AA:862:C:C2'	1:AA:863:U:H5'	2.37	0.55
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.06	0.55
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.70	0.55
4:AD:156:GLU:O	4:AD:160:GLN:HG3	2.07	0.55
12:AL:40:VAL:CG2	12:AL:52:VAL:HG21	2.36	0.55
16:AP:9:PHE:HB2	16:AP:16:HIS:O	2.07	0.55
22:AW:57:A:H2'	22:AW:58:A:H5'	1.88	0.55
35:BA:637:A:H2'	47:BP:117:GLU:OE2	2.07	0.55
35:BA:1786:A:C2	35:BA:2606:C:H1'	2.42	0.55
35:BA:2600:A:H2'	35:BA:2601:C:C6	2.41	0.55
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.05	0.55
35:BA:2876:G:H4'	51:BT:3:ARG:HG2	1.89	0.55
41:BG:70:VAL:O	41:BG:70:VAL:HG13	2.07	0.55
41:BG:117:PHE:CZ	41:BG:179:PRO:HG2	2.41	0.55
42:BH:84:SER:O	42:BH:85:LYS:HB3	2.05	0.55
43:BI:52:ARG:HD3	43:BI:53:ALA:H	1.69	0.55
47:BP:34:GLY:O	47:BP:35:HIS:HB2	2.07	0.55
47:BP:70:GLN:C	47:BP:72:PRO:HD2	2.31	0.55
47:BP:107:LYS:C	47:BP:109:GLY:H	2.15	0.55
48:BQ:54:MET:HG2	48:BQ:64:ILE:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:97:ARG:NH1	50:BS:97:ARG:HG2	2.22	0.55
57:BZ:93:ASP:HA	57:BZ:130:PRO:HD2	1.89	0.55
1:CA:643:C:O2'	1:CA:644:G:H5'	2.07	0.55
1:CA:789:U:O2	1:CA:792:A:H8	1.89	0.55
1:CA:926:G:H21	1:CA:1505:G:H2'	1.70	0.55
2:CB:87:ARG:HE	2:CB:223:ILE:CD1	2.19	0.55
2:CB:142:LEU:HD21	2:CB:146:GLN:NE2	2.22	0.55
2:CB:178:ARG:NH2	8:CH:68:ARG:NH2	2.54	0.55
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.72	0.55
8:CH:92:ARG:HB3	8:CH:94:TYR:CE2	2.41	0.55
12:CL:17:LYS:HD3	12:CL:17:LYS:H	1.70	0.55
14:CN:46:GLU:O	14:CN:50:LYS:HG3	2.07	0.55
18:CR:58:LEU:HD23	18:CR:62:GLU:HB3	1.89	0.55
25:D0:34:GLY:O	25:D0:35:ASN:C	2.50	0.55
32:D7:39:ARG:HD3	35:DA:458:G:O2'	2.07	0.55
33:D8:59:LYS:O	33:D8:61:LEU:HD23	2.07	0.55
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.22	0.55
35:DA:158:U:H4'	35:DA:171:G:C5	2.42	0.55
35:DA:864:G:C2'	35:DA:866:A:H62	2.19	0.55
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.20	0.55
35:DA:1668:A:H4'	35:DA:1669:A:O5'	2.06	0.55
35:DA:2103:C:H2'	35:DA:2104:G:H5''	1.87	0.55
35:DA:2161:C:H2'	35:DA:2162:G:O4'	2.06	0.55
35:DA:2364:C:H2'	35:DA:2365:G:O4'	2.06	0.55
39:DE:117:MET:HE1	39:DE:124:GLY:HA3	1.88	0.55
40:DF:4:VAL:HG12	40:DF:17:ARG:HH11	1.72	0.55
46:DO:104:ARG:C	46:DO:106:LEU:N	2.64	0.55
47:DP:23:PRO:O	47:DP:33:ARG:NH1	2.39	0.55
47:DP:63:PRO:C	47:DP:65:ARG:N	2.63	0.55
51:DT:32:TYR:HB3	51:DT:81:PRO:O	2.07	0.55
51:DT:34:VAL:HG12	51:DT:34:VAL:O	2.07	0.55
51:DT:38:ASN:CG	51:DT:39:ARG:N	2.63	0.55
51:DT:89:VAL:O	51:DT:91:ARG:N	2.38	0.55
53:DV:39:LEU:C	53:DV:40:LEU:HD23	2.31	0.55
54:DW:10:VAL:O	54:DW:11:ARG:HB2	2.07	0.55
1:AA:127:G:H2'	1:AA:128:G:H8	1.72	0.55
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	2.07	0.55
1:AA:596:C:O2'	1:AA:597:G:H5'	2.06	0.55
1:AA:841:U:H3'	1:AA:848:C:H5'	1.89	0.55
2:AB:46:LYS:HD2	2:AB:46:LYS:H	1.71	0.55
4:AD:64:LEU:HD23	4:AD:64:LEU:C	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:100:ASN:ND2	18:AR:23:LYS:NZ	2.54	0.55
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.18	0.55
10:AJ:45:ARG:O	10:AJ:64:GLU:HA	2.06	0.55
21:AU:6:ARG:HE	21:AU:15:ARG:NH1	2.05	0.55
22:AW:3:C:H2'	22:AW:4:G:C5'	2.36	0.55
26:B1:29:GLY:HA3	35:BA:2396:G:O2'	2.07	0.55
35:BA:314:A:O2'	35:BA:315:G:H5'	2.07	0.55
35:BA:535:C:O2'	35:BA:536:A:H5'	2.07	0.55
35:BA:1114:G:H2'	35:BA:1115:G:H5''	1.87	0.55
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.37	0.55
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.42	0.55
35:BA:1453:U:OP1	49:BR:77:ARG:HD3	2.07	0.55
35:BA:1490:A:C8	35:BA:1490:A:OP1	2.60	0.55
35:BA:2347:C:H2'	35:BA:2348:U:H6	1.71	0.55
39:BE:184:VAL:O	39:BE:186:GLY:N	2.37	0.55
40:BF:25:PRO:C	40:BF:27:GLU:N	2.62	0.55
40:BF:65:TRP:CH2	40:BF:72:ARG:HB3	2.41	0.55
40:BF:116:ASP:O	40:BF:120:GLU:HG3	2.06	0.55
42:BH:54:ARG:HG2	42:BH:54:ARG:NH1	2.19	0.55
42:BH:124:GLU:C	42:BH:126:PRO:HD3	2.32	0.55
53:BV:47:VAL:HB	53:BV:49:THR:O	2.07	0.55
56:BY:2:ARG:N	56:BY:4:LYS:HG3	2.21	0.55
56:BY:7:VAL:CG2	56:BY:8:LYS:NZ	2.70	0.55
1:CA:259:G:H1	1:CA:267:C:H42	1.52	0.55
1:CA:532:A:H3'	1:CA:533:A:H5''	1.89	0.55
1:CA:865:A:H5'	1:CA:1078:U:O4	2.07	0.55
1:CA:1144:G:H21	1:CA:1146:A:H62	1.52	0.55
1:CA:1499:A:C1'	1:CA:1520:G:H5'	2.36	0.55
1:CA:1501:C:C4	1:CA:1504:G:C6	2.95	0.55
2:CB:12:GLU:OE2	2:CB:44:LEU:HD12	2.06	0.55
2:CB:178:ARG:HH21	8:CH:74:PRO:CB	2.19	0.55
5:CE:103:GLY:C	5:CE:105:VAL:H	2.15	0.55
10:CJ:6:ILE:HG22	10:CJ:8:LEU:HG	1.88	0.55
16:CP:5:ARG:NE	16:CP:22:THR:HG21	2.21	0.55
17:CQ:50:LYS:HG3	17:CQ:51:TYR:H	1.72	0.55
19:CS:35:SER:O	19:CS:71:LEU:HD12	2.07	0.55
29:D4:9:LEU:HD12	29:D4:26:SER:HA	1.89	0.55
31:D6:15:GLU:OE1	31:D6:18:ARG:HD2	2.07	0.55
35:DA:535:C:O2'	35:DA:536:A:H5'	2.06	0.55
35:DA:708:C:H42	35:DA:723:G:H1	1.55	0.55
35:DA:718:A:H2'	35:DA:719:C:H5'	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1022:G:N7	45:DN:66:LYS:NZ	2.55	0.55
35:DA:1388:G:O2'	35:DA:1389:G:H5'	2.07	0.55
35:DA:2463:C:O2'	35:DA:2464:C:H5'	2.07	0.55
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.85	0.55
40:DF:21:ALA:C	40:DF:23:ASP:H	2.14	0.55
43:DI:102:SER:HB3	43:DI:108:THR:O	2.07	0.55
45:DN:119:ARG:CG	45:DN:119:ARG:HH11	2.20	0.55
48:DQ:124:LYS:C	48:DQ:125:LEU:HD23	2.32	0.55
51:DT:36:GLU:O	51:DT:37:GLY:C	2.49	0.55
53:DV:99:ILE:O	53:DV:101:GLY:N	2.39	0.55
56:DY:75:ILE:HG22	56:DY:79:CYS:C	2.31	0.55
56:DY:95:LYS:HZ2	56:DY:99:CYS:N	1.99	0.55
1:AA:985:C:H2'	1:AA:986:A:C8	2.42	0.55
1:AA:1169:A:H2'	1:AA:1170:A:O4'	2.07	0.55
2:AB:51:LEU:HD23	2:AB:201:ILE:HD13	1.89	0.55
4:AD:135:LEU:N	4:AD:135:LEU:HD13	2.21	0.55
7:AG:138:LYS:HE2	7:AG:142:GLU:OE1	2.06	0.55
12:AL:17:LYS:HD3	12:AL:17:LYS:H	1.72	0.55
13:AM:50:GLU:O	13:AM:53:VAL:HB	2.07	0.55
16:AP:59:TRP:HA	16:AP:62:VAL:HG22	1.89	0.55
19:AS:29:ARG:HD3	19:AS:48:THR:OG1	2.07	0.55
19:AS:41:VAL:HG22	29:B4:50:VAL:HG11	1.88	0.55
24:AY:57:GLN:CD	35:BA:1913:A:N3	2.65	0.55
26:B1:62:VAL:CG2	26:B1:63:ALA:N	2.69	0.55
35:BA:57:C:H2'	35:BA:58:G:O4'	2.07	0.55
35:BA:105:C:H2'	35:BA:106:C:C6	2.42	0.55
35:BA:860:U:O4'	35:BA:860:U:O2	2.24	0.55
35:BA:904:C:H5'	35:BA:904:C:H6	1.72	0.55
35:BA:1171:G:H3'	35:BA:1173:G:O4'	2.06	0.55
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.36	0.55
38:BD:155:LEU:HD23	38:BD:177:LEU:HD21	1.89	0.55
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	2.06	0.55
40:BF:22:ALA:O	40:BF:26:ALA:CB	2.52	0.55
40:BF:22:ALA:HB1	40:BF:26:ALA:HA	1.89	0.55
45:BN:39:ARG:C	45:BN:41:ASP:H	2.14	0.55
47:BP:146:VAL:HG22	47:BP:147:LEU:N	2.11	0.55
50:BS:106:ARG:HD2	50:BS:106:ARG:O	2.06	0.55
51:BT:85:LYS:C	51:BT:85:LYS:NZ	2.65	0.55
57:BZ:154:ASP:H	57:BZ:155:LEU:HD23	1.72	0.55
1:CA:73:G:H1	1:CA:96:U:H3	1.54	0.55
1:CA:783:C:O2'	1:CA:784:C:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1440:C:H2'	1:CA:1441:G:O4'	2.06	0.55
3:CC:12:LEU:HD13	14:CN:56:VAL:O	2.07	0.55
4:CD:129:ASN:HD21	4:CD:144:ASP:HA	1.72	0.55
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.89	0.55
11:CK:84:VAL:HG22	11:CK:110:ASP:HA	1.88	0.55
13:CM:22:ILE:HG21	13:CM:25:ILE:HD12	1.89	0.55
14:CN:27:CYS:HB3	14:CN:43:CYS:SG	2.47	0.55
14:CN:51:GLY:C	14:CN:53:LEU:H	2.15	0.55
58:CX:16:A:N1	58:CX:17:U:C6	2.74	0.55
26:D1:50:ARG:HG2	26:D1:59:THR:HB	1.89	0.55
35:DA:1006:C:O2	45:DN:106:MET:HG2	2.06	0.55
35:DA:1165:U:H2'	35:DA:1166:C:C6	2.42	0.55
35:DA:1221:C:H2'	35:DA:1221(A):C:H6	1.72	0.55
35:DA:1856:G:H2'	35:DA:1857:G:H5'	1.89	0.55
35:DA:1915:U:C2'	35:DA:1916:A:O5'	2.54	0.55
35:DA:2767:C:H2'	35:DA:2768:C:H6	1.72	0.55
35:DA:2883:A:H5'	35:DA:2884:U:H5'	1.89	0.55
36:DB:55:U:O2'	36:DB:56:G:H5'	2.07	0.55
38:DD:141:VAL:HG23	38:DD:141:VAL:O	2.07	0.55
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.88	0.55
39:DE:60:ASN:C	39:DE:62:PRO:HD2	2.32	0.55
40:DF:63:LYS:HZ1	40:DF:67:GLN:HB2	1.71	0.55
41:DG:48:GLU:HG3	41:DG:49:ASP:OD1	2.06	0.55
42:DH:88:LEU:HD23	42:DH:130:ARG:HG3	1.88	0.55
45:DN:15:LEU:HD23	45:DN:16:ILE:N	2.22	0.55
50:DS:57:LYS:O	50:DS:58:LEU:HD23	2.07	0.55
51:DT:54:ARG:HH11	51:DT:54:ARG:HG2	1.72	0.55
52:DU:47:TYR:HA	52:DU:50:ARG:NH2	2.22	0.55
54:DW:28:SER:OG	54:DW:31:GLU:HB2	2.07	0.55
56:DY:3:VAL:O	56:DY:3:VAL:HG12	2.07	0.55
1:AA:1151:A:O2'	1:AA:1152:A:H8	1.90	0.54
1:AA:1280:A:H5''	10:AJ:41:PRO:HD2	1.88	0.54
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.42	0.54
2:AB:97:TRP:CH2	2:AB:172:ILE:HB	2.41	0.54
24:AY:39:LYS:CD	24:AY:39:LYS:N	2.67	0.54
27:B2:30:ARG:HB2	55:BX:5:TYR:CE1	2.43	0.54
30:B5:52:TYR:O	30:B5:56:LYS:NZ	2.41	0.54
31:B6:11:LEU:O	31:B6:23:THR:HA	2.06	0.54
31:B6:30:THR:O	31:B6:31:PRO:C	2.49	0.54
35:BA:17:G:H4'	52:BU:25:TRP:CZ3	2.42	0.54
35:BA:1478:G:O2'	35:BA:1558:A:C2	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1532:C:H1'	35:BA:1533:G:H21	1.71	0.54
35:BA:2052:G:H4'	39:BE:143:ASN:O	2.06	0.54
42:BH:8:PRO:O	42:BH:9:ILE:CB	2.55	0.54
43:BI:50:ARG:O	43:BI:54:GLN:HB2	2.07	0.54
43:BI:93:THR:O	43:BI:97:ILE:HG13	2.08	0.54
47:BP:38:GLN:HG3	47:BP:39:LYS:N	2.06	0.54
50:BS:71:ARG:NH1	50:BS:71:ARG:HG3	2.22	0.54
51:BT:16:ARG:NH1	51:BT:19:LEU:HD21	2.22	0.54
51:BT:29:ARG:HD3	51:BT:30:VAL:H	1.71	0.54
51:BT:53:ARG:HH11	51:BT:53:ARG:CB	2.12	0.54
57:BZ:24:LEU:C	57:BZ:24:LEU:HD12	2.32	0.54
57:BZ:38:TYR:O	57:BZ:38:TYR:CD1	2.60	0.54
1:CA:677:U:H3	1:CA:714:G:H22	1.53	0.54
1:CA:1053:G:N7	1:CA:1199:U:H3'	2.22	0.54
1:CA:1426:C:O2'	1:CA:1427:U:H5'	2.07	0.54
1:CA:1488:G:C2	1:CA:1489:G:N7	2.75	0.54
8:CH:30:ARG:HH11	8:CH:30:ARG:CB	2.19	0.54
8:CH:114:THR:C	8:CH:116:LYS:N	2.64	0.54
19:CS:16:LEU:HD23	19:CS:16:LEU:C	2.32	0.54
35:DA:1252:G:N3	52:DU:33:ARG:HD2	2.22	0.54
35:DA:1896:G:H2'	35:DA:1897:G:H8	1.71	0.54
35:DA:2040:C:H2'	35:DA:2041:U:C6	2.41	0.54
35:DA:2118:U:O2'	35:DA:2119:A:H5''	2.08	0.54
35:DA:2392:A:H8	47:DP:60:MET:HB2	1.72	0.54
35:DA:2777:G:C4'	35:DA:2778:A:H5'	2.37	0.54
37:DC:47:LEU:HA	37:DC:207:THR:HA	1.89	0.54
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.70	0.54
40:DF:65:TRP:CH2	40:DF:72:ARG:HB3	2.42	0.54
41:DG:53:LEU:N	41:DG:53:LEU:HD22	2.22	0.54
42:DH:83:TYR:CB	42:DH:135:GLY:N	2.68	0.54
47:DP:7:ARG:H	47:DP:7:ARG:CD	2.20	0.54
47:DP:17:LYS:C	47:DP:19:VAL:N	2.65	0.54
57:DZ:3:TYR:HB2	57:DZ:56:VAL:O	2.07	0.54
1:AA:341:C:O2'	1:AA:342:C:H5'	2.07	0.54
1:AA:664:G:H22	1:AA:741:G:H1	1.56	0.54
1:AA:1327:C:H2'	1:AA:1328:C:H6	1.72	0.54
3:AC:44:GLU:OE1	3:AC:52:LEU:HD21	2.08	0.54
5:AE:101:ILE:HG12	5:AE:118:ILE:O	2.08	0.54
14:AN:46:GLU:O	14:AN:50:LYS:HG3	2.08	0.54
17:AQ:96:GLU:CD	17:AQ:96:GLU:H	2.15	0.54
19:AS:58:VAL:O	19:AS:60:VAL:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:40:ARG:NH2	26:B1:42:GLN:HG2	2.23	0.54
28:B3:15:TYR:CE1	28:B3:53:LEU:HD21	2.43	0.54
28:B3:50:VAL:O	28:B3:54:VAL:HG23	2.07	0.54
33:B8:29:LYS:O	33:B8:30:ARG:HG2	2.07	0.54
35:BA:1684:C:O2'	35:BA:1685:C:H5'	2.07	0.54
35:BA:1856:G:H2'	35:BA:1857:G:H5'	1.88	0.54
35:BA:1902:C:H4'	38:BD:244:ARG:HA	1.87	0.54
35:BA:2341:G:H2'	35:BA:2342:C:H6	1.72	0.54
38:BD:32:SER:C	38:BD:36:PRO:HD3	2.32	0.54
42:BH:16:SER:CB	42:BH:27:LYS:HB3	2.22	0.54
42:BH:84:SER:O	42:BH:133:VAL:O	2.25	0.54
47:BP:63:PRO:C	47:BP:65:ARG:N	2.65	0.54
51:BT:50:ILE:HD12	51:BT:99:LEU:HB2	1.89	0.54
51:BT:107:ASP:H	51:BT:110:ILE:HG12	1.73	0.54
52:BU:28:ARG:HG2	52:BU:38:THR:OG1	2.07	0.54
56:BY:3:VAL:HG12	56:BY:3:VAL:O	2.07	0.54
1:CA:339:C:OP2	46:DO:97:ARG:NH1	2.38	0.54
1:CA:390:C:H4'	16:CP:28:ARG:NH2	2.22	0.54
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.89	0.54
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.06	0.54
4:CD:10:ARG:HG3	4:CD:40:PRO:HG2	1.88	0.54
4:CD:62:GLN:O	4:CD:66:ARG:HG2	2.07	0.54
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.90	0.54
11:CK:96:ARG:HH11	11:CK:96:ARG:HG2	1.71	0.54
11:CK:99:GLN:HG2	11:CK:105:VAL:HG21	1.89	0.54
27:D2:47:ASN:HD22	35:DA:94(A):G:N2	2.04	0.54
28:D3:15:TYR:CE1	28:D3:53:LEU:HD21	2.43	0.54
29:D4:12:ALA:HB1	29:D4:29:PRO:HA	1.88	0.54
31:D6:45:LYS:HZ2	31:D6:45:LYS:HB3	1.72	0.54
35:DA:2022:U:O2'	35:DA:2617:C:H5'	2.07	0.54
35:DA:2064:C:H2'	35:DA:2065:C:C6	2.42	0.54
35:DA:2347:C:H2'	35:DA:2348:U:H6	1.73	0.54
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.07	0.54
40:DF:34:TRP:CZ2	47:DP:12:ALA:HB2	2.42	0.54
43:DI:85:GLU:OE2	43:DI:85:GLU:HA	2.06	0.54
46:DO:16:ALA:HB2	46:DO:52:VAL:HG21	1.90	0.54
47:DP:98:GLU:O	47:DP:101:VAL:HG22	2.07	0.54
52:DU:83:LEU:H	52:DU:83:LEU:HD12	1.72	0.54
57:DZ:105:VAL:HG12	57:DZ:139:VAL:O	2.07	0.54
57:DZ:151:HIS:CA	57:DZ:171:ILE:HG12	2.24	0.54
1:AA:632:A:C3'	1:AA:633:G:C5'	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:718:G:H5'	11:AK:117:ASN:CB	2.37	0.54
1:AA:1373:G:C5'	7:AG:36:LYS:HB2	2.35	0.54
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.70	0.54
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.89	0.54
10:AJ:24:VAL:O	10:AJ:28:ARG:HB2	2.07	0.54
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.64	0.54
15:AO:32:LEU:O	15:AO:33:THR:C	2.50	0.54
16:AP:28:ARG:C	16:AP:30:GLY:H	2.16	0.54
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.17	0.54
24:AY:24:LEU:HD13	24:AY:25:LYS:H	1.73	0.54
24:AY:91:ASN:ND2	24:AY:91:ASN:O	2.40	0.54
34:B9:17:ILE:HD11	34:B9:19:ARG:HB2	1.89	0.54
35:BA:118:A:H5'	35:BA:119:A:H8	1.71	0.54
35:BA:621:A:H2'	35:BA:622:G:C5'	2.37	0.54
35:BA:2768:C:O2'	35:BA:2769:C:H5'	2.08	0.54
41:BG:52:ILE:H	41:BG:52:ILE:CD1	2.03	0.54
42:BH:12:PRO:CB	42:BH:15:VAL:HG21	2.23	0.54
42:BH:62:LYS:C	42:BH:64:LEU:H	2.14	0.54
42:BH:89:ILE:HD11	42:BH:95:ARG:HA	1.88	0.54
46:BO:71:ARG:HG3	46:BO:71:ARG:NH1	2.21	0.54
47:BP:146:VAL:CG2	47:BP:147:LEU:H	2.09	0.54
49:BR:22:ARG:O	49:BR:26:LYS:HG3	2.07	0.54
49:BR:33:ARG:HG3	49:BR:115:GLU:HG2	1.89	0.54
1:CA:679:C:O2'	1:CA:680:C:H5'	2.07	0.54
1:CA:920:U:H1'	1:CA:1080:A:C2	2.41	0.54
1:CA:939:G:H2'	1:CA:940:C:C6	2.42	0.54
4:CD:35:ARG:C	4:CD:37:PRO:HD3	2.32	0.54
12:CL:41:THR:CG2	24:CY:7:HIS:CA	2.79	0.54
13:CM:82:MET:HE2	35:DA:888:C:C1'	2.38	0.54
25:D0:56:ASP:O	25:D0:57:PHE:HB2	2.06	0.54
29:D4:14:ILE:HD12	29:D4:14:ILE:N	2.21	0.54
30:D5:58:LEU:HD12	30:D5:58:LEU:H	1.72	0.54
33:D8:53:PRO:HA	33:D8:56:GLU:HB3	1.88	0.54
35:DA:1021:A:C8	35:DA:1021:A:C3'	2.90	0.54
35:DA:1276:A:O2'	49:DR:12:ARG:NH1	2.40	0.54
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.22	0.54
41:DG:28:VAL:C	41:DG:30:GLU:H	2.15	0.54
41:DG:101:ILE:O	41:DG:105:LYS:HG3	2.08	0.54
41:DG:105:LYS:O	41:DG:109:VAL:HB	2.06	0.54
41:DG:139:LEU:HA	41:DG:144:ILE:HG22	1.88	0.54
49:DR:100:LEU:HD13	49:DR:112:ALA:CA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DW:95:ILE:O	54:DW:95:ILE:HG13	2.07	0.54
56:DY:47:LYS:HD2	56:DY:47:LYS:H	1.72	0.54
1:AA:819:A:H4'	1:AA:820:U:OP2	2.07	0.54
2:AB:76:GLN:CD	2:AB:76:GLN:H	2.14	0.54
2:AB:152:PHE:CE2	2:AB:155:LEU:HB3	2.42	0.54
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.90	0.54
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.90	0.54
12:AL:57:LEU:HD22	12:AL:57:LEU:N	2.22	0.54
15:AO:36:ILE:HD12	15:AO:63:ARG:CD	2.38	0.54
17:AQ:44:ALA:HB2	17:AQ:59:ILE:HD12	1.90	0.54
19:AS:16:LEU:C	19:AS:16:LEU:HD23	2.33	0.54
22:AV:61:C:H2'	22:AV:62:C:C6	2.42	0.54
26:B1:7:ILE:CG2	26:B1:66:HIS:HB3	2.36	0.54
33:B8:46:ARG:NH2	35:BA:631:A:OP2	2.41	0.54
35:BA:154(A):C:H41	35:BA:171:G:H1	1.53	0.54
35:BA:1006:C:O2	45:BN:106:MET:HG2	2.08	0.54
35:BA:1568:G:C5'	38:BD:60:ARG:HA	2.36	0.54
35:BA:1705:G:O2'	35:BA:1706:U:H5'	2.07	0.54
35:BA:2014:A:H4'	54:BW:92:ARG:NH2	2.17	0.54
35:BA:2485:G:H5''	48:BQ:46:GLN:HE21	1.73	0.54
35:BA:2680:C:O2'	35:BA:2681:C:H5'	2.07	0.54
38:BD:52:ARG:HB2	38:BD:53:PHE:CE2	2.43	0.54
39:BE:184:VAL:C	39:BE:186:GLY:H	2.15	0.54
43:BI:52:ARG:HH11	43:BI:53:ALA:CA	2.20	0.54
43:BI:102:SER:OG	43:BI:109:ILE:HD12	2.08	0.54
47:BP:123:LEU:C	47:BP:123:LEU:HD12	2.32	0.54
49:BR:7:GLY:O	49:BR:8:ARG:CB	2.55	0.54
53:BV:24:LYS:N	53:BV:92:THR:HG22	2.22	0.54
57:BZ:146:ILE:HA	57:BZ:174:VAL:HG11	1.89	0.54
1:CA:596:C:O2'	1:CA:597:G:H5'	2.07	0.54
1:CA:626:U:H5''	16:CP:38:TYR:CE2	2.41	0.54
1:CA:663:A:O2'	1:CA:664:G:H5'	2.07	0.54
1:CA:933:G:OP2	7:CG:3:ARG:HB2	2.07	0.54
1:CA:1134:G:H2'	1:CA:1135:U:H5'	1.88	0.54
1:CA:1347:G:HO2'	1:CA:1373:G:H1	1.54	0.54
1:CA:1401:G:P	58:CX:19:G:N2	2.76	0.54
2:CB:15:VAL:HG21	2:CB:209:ARG:CZ	2.38	0.54
2:CB:46:LYS:HD2	2:CB:46:LYS:H	1.72	0.54
5:CE:20:GLN:O	5:CE:23:GLY:O	2.24	0.54
5:CE:110:LEU:HD13	5:CE:115:VAL:HG11	1.89	0.54
9:CI:10:ARG:HG2	9:CI:105:ASP:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:13:ALA:HA	9:CI:67:GLY:O	2.07	0.54
11:CK:20:TYR:CZ	11:CK:83:ILE:HD12	2.43	0.54
15:CO:66:LEU:CD1	15:CO:66:LEU:N	2.70	0.54
31:D6:25:LYS:HE3	35:DA:2285:C:H41	1.73	0.54
31:D6:30:THR:O	31:D6:31:PRO:C	2.50	0.54
35:DA:476:G:H4'	35:DA:502:A:N1	2.23	0.54
35:DA:1045:A:H3'	35:DA:1045:A:N3	2.22	0.54
35:DA:1411:C:H2'	35:DA:1412:A:C8	2.43	0.54
41:DG:20:ILE:O	41:DG:24:GLY:HA2	2.08	0.54
41:DG:95:ARG:HB3	41:DG:96:ARG:HD2	1.90	0.54
42:DH:124:GLU:C	42:DH:126:PRO:HD3	2.32	0.54
47:DP:62:LEU:HD13	47:DP:62:LEU:N	2.22	0.54
51:DT:107:ASP:H	51:DT:110:ILE:HG12	1.72	0.54
53:DV:38:LEU:C	53:DV:39:LEU:HD13	2.30	0.54
56:DY:97:ARG:HH11	56:DY:97:ARG:HB2	1.72	0.54
57:DZ:10:ARG:HH21	57:DZ:26:GLY:N	2.02	0.54
57:DZ:76:LEU:HD22	57:DZ:82:ARG:N	2.22	0.54
57:DZ:81:ARG:HB3	57:DZ:81:ARG:NH1	2.22	0.54
57:DZ:157:LEU:HB2	57:DZ:161:VAL:CG1	2.38	0.54
1:AA:789:U:O2	1:AA:792:A:H8	1.90	0.54
1:AA:987:G:N2	1:AA:1219:U:H3	2.05	0.54
1:AA:1025:U:HO2'	1:AA:1026:G:H8	1.55	0.54
3:AC:6:HIS:CD2	3:AC:8:ILE:HG12	2.42	0.54
3:AC:20:SER:CB	3:AC:40:ARG:HH22	2.21	0.54
3:AC:132:ARG:HG2	3:AC:136:GLN:HB2	1.89	0.54
8:AH:93:VAL:O	8:AH:132:GLU:HA	2.08	0.54
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.73	0.54
22:AV:55:U:O4	22:AV:58:A:OP2	2.25	0.54
30:B5:2:ALA:HB3	35:BA:747:U:N1	2.23	0.54
35:BA:2364:C:H2'	35:BA:2365:G:O4'	2.08	0.54
35:BA:2366:A:H2'	35:BA:2367:G:O4'	2.08	0.54
36:BB:20:C:C3'	36:BB:21:G:H5''	2.37	0.54
39:BE:36:ARG:NH1	39:BE:85:ASN:OD1	2.40	0.54
41:BG:53:LEU:N	41:BG:53:LEU:HD22	2.22	0.54
42:BH:82:GLY:O	42:BH:138:LYS:HD2	2.08	0.54
47:BP:101:VAL:HG12	47:BP:107:LYS:N	2.21	0.54
48:BQ:134:ARG:HA	48:BQ:137:TYR:CD2	2.43	0.54
53:BV:12:TYR:N	53:BV:12:TYR:CD1	2.76	0.54
53:BV:16:PRO:O	53:BV:96:ILE:O	2.25	0.54
56:BY:81:LYS:NZ	56:BY:97:ARG:HH21	2.04	0.54
1:CA:19:C:H2'	1:CA:20:U:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:37:U:O4	1:CA:38:G:C6	2.60	0.54
1:CA:70:G:O2'	1:CA:71:C:H5'	2.08	0.54
1:CA:174:C:H2'	1:CA:175:C:C6	2.43	0.54
1:CA:327:A:O2'	1:CA:328:C:O4'	2.25	0.54
1:CA:505:G:H2'	1:CA:506:G:C8	2.42	0.54
1:CA:763:G:H2'	1:CA:764:C:H6	1.72	0.54
1:CA:828:A:H2'	1:CA:829:G:O4'	2.08	0.54
1:CA:1225:A:N6	1:CA:1226:C:N4	2.56	0.54
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.72	0.54
2:CB:60:ASP:HB3	2:CB:64:ARG:CZ	2.37	0.54
2:CB:75:LYS:HD3	2:CB:75:LYS:C	2.33	0.54
3:CC:13:GLY:HA3	14:CN:57:ARG:HD2	1.89	0.54
5:CE:12:LEU:HD13	5:CE:31:LEU:HB3	1.88	0.54
6:CF:96:PRO:HB3	18:CR:30:ASP:CG	2.33	0.54
7:CG:132:GLY:H	7:CG:135:VAL:HB	1.72	0.54
9:CI:99:LEU:C	9:CI:101:PHE:H	2.16	0.54
10:CJ:45:ARG:O	10:CJ:64:GLU:HA	2.07	0.54
11:CK:43:SER:HA	11:CK:47:VAL:HG21	1.88	0.54
15:CO:4:THR:OG1	15:CO:7:GLU:HG3	2.07	0.54
22:CV:6:G:N2	22:CV:68:C:C2	2.75	0.54
58:CX:16:A:C2	58:CX:17:U:C1'	2.91	0.54
36:DB:20:C:C3'	36:DB:21:G:H5''	2.38	0.54
36:DB:40:U:H3'	36:DB:41:U:C5'	2.37	0.54
38:DD:270:ILE:C	38:DD:270:ILE:HD12	2.32	0.54
39:DE:33:VAL:HG13	39:DE:69:LYS:CE	2.38	0.54
41:DG:121:ASN:ND2	41:DG:122:PRO:HD2	2.12	0.54
41:DG:138:GLN:HG3	41:DG:139:LEU:N	2.22	0.54
42:DH:126:PRO:HB2	42:DH:127:GLU:OE1	2.07	0.54
48:DQ:46:GLN:NE2	48:DQ:126:PRO:HD3	2.22	0.54
51:DT:63:VAL:O	51:DT:73:GLU:HA	2.07	0.54
51:DT:83:ILE:CG1	51:DT:84:GLN:H	2.01	0.54
56:DY:28:LYS:O	56:DY:29:GLU:C	2.50	0.54
56:DY:46:LYS:N	56:DY:60:PHE:O	2.38	0.54
57:DZ:157:LEU:HB2	57:DZ:161:VAL:HG11	1.87	0.54
57:DZ:170:THR:HG22	57:DZ:171:ILE:N	2.23	0.54
1:AA:447:G:C6	1:AA:485:G:H1'	2.42	0.54
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.37	0.54
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.90	0.54
1:AA:1349:A:OP2	9:AI:118:LYS:NZ	2.40	0.54
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.43	0.54
2:AB:100:GLY:O	2:AB:103:THR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.07	0.54
5:AE:19:MET:O	5:AE:20:GLN:HB2	2.08	0.54
5:AE:84:PHE:HE2	5:AE:130:ASN:ND2	2.06	0.54
12:AL:4:ILE:HG23	12:AL:5:ASN:N	2.22	0.54
20:AT:84:LEU:HD13	20:AT:84:LEU:C	2.33	0.54
22:AW:53:G:H22	22:AW:62:C:C1'	2.21	0.54
27:B2:43:GLN:CB	27:B2:44:LEU:HD12	2.37	0.54
28:B3:28:LEU:N	28:B3:28:LEU:HD22	2.23	0.54
31:B6:15:GLU:HB3	31:B6:18:ARG:HG3	1.89	0.54
31:B6:25:LYS:HE3	35:BA:2285:C:H41	1.72	0.54
35:BA:764:A:H2	38:BD:219:PRO:HG3	1.71	0.54
35:BA:819:A:C4	35:BA:1189:A:C2	2.96	0.54
35:BA:967:C:O2'	35:BA:968:G:H5'	2.07	0.54
35:BA:977:G:O2'	35:BA:978:G:H5'	2.08	0.54
35:BA:1264:G:H3'	35:BA:1265:A:H5''	1.89	0.54
35:BA:1495:A:H2'	35:BA:1495:A:N3	2.22	0.54
35:BA:1826:G:C4'	38:BD:242:ARG:HE	2.19	0.54
35:BA:2767:C:H2'	35:BA:2768:C:H6	1.72	0.54
36:BB:40:U:H3'	36:BB:41:U:C5'	2.38	0.54
40:BF:4:VAL:HG22	40:BF:19:GLU:CD	2.32	0.54
41:BG:17:PRO:HG2	41:BG:18:GLU:H	1.72	0.54
41:BG:72:ARG:HG2	41:BG:86:MET:C	2.33	0.54
43:BI:29:TYR:HE1	43:BI:33:ARG:HE	1.51	0.54
50:BS:57:LYS:O	50:BS:58:LEU:HD23	2.07	0.54
52:BU:110:VAL:O	52:BU:114:LYS:HG2	2.08	0.54
56:BY:81:LYS:HB3	56:BY:96:ILE:HG23	1.90	0.54
1:CA:47:C:C2	1:CA:365:U:O2	2.56	0.54
1:CA:59:A:H5'	1:CA:60:A:H5''	1.88	0.54
1:CA:192:U:C4'	20:CT:103:GLY:H	2.18	0.54
1:CA:444:C:H2'	1:CA:445:G:H8	1.72	0.54
1:CA:582:U:H2'	1:CA:583:A:C8	2.43	0.54
1:CA:588:G:H2'	1:CA:589:C:C6	2.42	0.54
1:CA:632:A:C3'	1:CA:633:G:C5'	2.85	0.54
1:CA:1037:C:H2'	1:CA:1038:C:C5	2.43	0.54
1:CA:1288:A:H1'	1:CA:1352:C:O2'	2.08	0.54
2:CB:70:PHE:O	2:CB:71:VAL:HG13	2.08	0.54
2:CB:76:GLN:CD	2:CB:76:GLN:H	2.15	0.54
2:CB:97:TRP:CH2	2:CB:172:ILE:HB	2.41	0.54
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.17	0.54
4:CD:157:LEU:HD12	4:CD:157:LEU:N	2.23	0.54
5:CE:19:MET:O	5:CE:20:GLN:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:72:GLN:O	5:CE:73:ASN:CB	2.56	0.54
6:CF:36:ARG:HH12	6:CF:66:GLU:HB3	1.73	0.54
7:CG:28:ASN:O	7:CG:31:MET:HB3	2.08	0.54
7:CG:135:VAL:O	7:CG:139:GLU:HG3	2.08	0.54
12:CL:30:ARG:HB3	12:CL:82:ILE:HG22	1.89	0.54
13:CM:50:GLU:O	13:CM:53:VAL:HB	2.08	0.54
16:CP:50:LYS:HD2	16:CP:51:VAL:N	2.23	0.54
22:CV:55:U:H2'	22:CV:56:C:C6	2.42	0.54
22:CV:56:C:N3	22:CV:57:A:C6	2.73	0.54
26:D1:29:GLY:O	26:D1:30:VAL:HG22	2.08	0.54
33:D8:46:ARG:NH2	35:DA:631:A:OP2	2.40	0.54
35:DA:288:C:O2'	35:DA:289:A:H5'	2.08	0.54
35:DA:394:A:O2'	35:DA:395:U:H5'	2.07	0.54
35:DA:639:U:H2'	35:DA:640:C:C6	2.43	0.54
35:DA:1316:U:O2'	35:DA:1317:A:H5'	2.08	0.54
35:DA:1486:A:H2'	35:DA:1487:G:H8	1.73	0.54
35:DA:2584:U:H2'	35:DA:2585:U:H2'	1.89	0.54
39:DE:34:VAL:HG22	39:DE:34:VAL:O	2.08	0.54
41:DG:81:LYS:O	41:DG:82:LEU:O	2.25	0.54
42:DH:77:LYS:HD2	42:DH:77:LYS:N	2.22	0.54
46:DO:104:ARG:C	46:DO:106:LEU:H	2.14	0.54
50:DS:36:TYR:N	50:DS:36:TYR:CD1	2.75	0.54
51:DT:16:ARG:NH1	51:DT:19:LEU:HD21	2.22	0.54
57:DZ:40:ASP:OD2	57:DZ:42:VAL:HG12	2.08	0.54
1:AA:393:A:O2'	1:AA:394:G:H5'	2.08	0.54
1:AA:524:G:H2'	1:AA:525:C:C6	2.43	0.54
1:AA:939:G:H2'	1:AA:940:C:C6	2.42	0.54
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.70	0.54
1:AA:1123:A:C5'	10:AJ:36:GLY:HA3	2.38	0.54
2:AB:120:ALA:O	2:AB:124:SER:HB2	2.08	0.54
9:AI:10:ARG:HD2	9:AI:105:ASP:OD2	2.07	0.54
12:AL:17:LYS:HD3	12:AL:17:LYS:N	2.23	0.54
24:AY:51:ILE:HD12	24:AY:92:ILE:CD1	2.38	0.54
32:B7:39:ARG:HD3	35:BA:458:G:O2'	2.08	0.54
35:BA:607:U:OP1	40:BF:103:LYS:HG3	2.08	0.54
35:BA:775:G:C4'	35:BA:776:G:OP2	2.56	0.54
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.71	0.54
35:BA:1388:G:O2'	35:BA:1389:G:H5'	2.07	0.54
35:BA:1688:U:O2	35:BA:1700:A:H8	1.90	0.54
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.73	0.54
35:BA:2303:G:O2'	41:BG:132:ASN:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:24:LEU:HD13	40:BF:24:LEU:C	2.33	0.54
42:BH:126:PRO:HB2	42:BH:127:GLU:OE1	2.07	0.54
47:BP:39:LYS:O	47:BP:40:SER:CB	2.55	0.54
56:BY:28:LYS:O	56:BY:29:GLU:C	2.51	0.54
57:BZ:9:TYR:HE2	57:BZ:61:LEU:HD13	1.67	0.54
57:BZ:157:LEU:H	57:BZ:157:LEU:CD2	2.17	0.54
1:CA:10:A:O2'	1:CA:11:G:C5'	2.41	0.54
2:CB:34:ALA:O	2:CB:41:ILE:HB	2.07	0.54
2:CB:152:PHE:CE2	2:CB:155:LEU:HB3	2.42	0.54
3:CC:16:ARG:NE	3:CC:54:ARG:HH21	2.02	0.54
4:CD:76:ARG:HH11	4:CD:76:ARG:CB	2.12	0.54
5:CE:7:GLU:O	5:CE:112:LEU:HD13	2.08	0.54
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.19	0.54
9:CI:83:ARG:O	9:CI:87:GLN:HB2	2.07	0.54
9:CI:97:LYS:C	9:CI:99:LEU:H	2.13	0.54
11:CK:32:ILE:CD1	11:CK:72:ALA:HB2	2.37	0.54
11:CK:125:PHE:N	11:CK:125:PHE:HD1	2.06	0.54
16:CP:9:PHE:HB2	16:CP:16:HIS:O	2.07	0.54
16:CP:28:ARG:NH1	16:CP:29:ASP:OD2	2.40	0.54
17:CQ:44:ALA:HB2	17:CQ:59:ILE:HD12	1.90	0.54
26:D1:53:VAL:O	26:D1:53:VAL:HG13	2.08	0.54
27:D2:17:SER:HB3	27:D2:20:GLU:HB2	1.89	0.54
27:D2:28:LYS:HD2	27:D2:53:LEU:HD21	1.90	0.54
35:DA:241:A:H5'	35:DA:243:U:O4'	2.07	0.54
35:DA:911:A:H2'	48:DQ:9:TYR:HH	1.71	0.54
35:DA:1204:A:N1	35:DA:1241:A:H2	2.05	0.54
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.42	0.54
38:DD:80:ALA:O	38:DD:81:ALA:HB2	2.08	0.54
38:DD:127:VAL:HA	38:DD:193:VAL:O	2.07	0.54
40:DF:148:LEU:HD11	40:DF:193:VAL:HG21	1.90	0.54
41:DG:82:LEU:HD23	41:DG:83:ARG:O	2.05	0.54
41:DG:114:ILE:HG22	41:DG:116:ASP:N	2.10	0.54
41:DG:126:ASP:C	41:DG:128:ARG:H	2.15	0.54
42:DH:15:VAL:HG23	42:DH:16:SER:N	2.22	0.54
43:DI:133:HIS:CB	43:DI:134:PRO:CD	2.83	0.54
45:DN:39:ARG:C	45:DN:41:ASP:H	2.16	0.54
45:DN:99:LEU:HD12	45:DN:122:VAL:HG21	1.89	0.54
47:DP:57:THR:HG23	47:DP:59:LEU:HB3	1.90	0.54
51:DT:28:VAL:HG13	51:DT:46:GLU:CA	2.36	0.54
56:DY:28:LYS:HG2	56:DY:39:VAL:HG22	1.88	0.54
57:DZ:136:PHE:C	57:DZ:138:GLU:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:321:A:N6	1:AA:329:A:OP2	2.40	0.54
1:AA:1305:G:H21	1:AA:1306:A:H62	1.53	0.54
1:AA:1324:A:H4'	1:AA:1362:C:O3'	2.08	0.54
2:AB:173:ALA:HA	2:AB:176:GLU:CG	2.37	0.54
3:AC:70:VAL:O	3:AC:105:GLU:HA	2.07	0.54
4:AD:13:ARG:HD3	4:AD:36:ARG:HB2	1.89	0.54
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	1.90	0.54
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	2.12	0.54
11:AK:32:ILE:CD1	11:AK:72:ALA:HB2	2.38	0.54
12:AL:114:ARG:HG2	12:AL:119:THR:HG23	1.89	0.54
22:AV:23:C:H2'	22:AV:24:U:C5	2.41	0.54
29:B4:9:LEU:HD21	41:BG:101:ILE:HD12	1.89	0.54
34:B9:19:ARG:HD3	35:BA:2755:C:H2'	1.90	0.54
34:B9:22:ARG:HB2	34:B9:24:TYR:HE1	1.73	0.54
35:BA:158:U:H4'	35:BA:171:G:C5	2.43	0.54
35:BA:1188:U:H4'	53:BV:79:VAL:CG2	2.38	0.54
35:BA:1314:C:H5'	35:BA:1314:C:C6	2.42	0.54
35:BA:1836:C:O2'	35:BA:1837:C:H5'	2.08	0.54
35:BA:1853:A:H2'	35:BA:1854:A:C8	2.43	0.54
35:BA:2118:U:O2'	35:BA:2119:A:H5''	2.07	0.54
38:BD:8:PRO:HB3	38:BD:14:ARG:HB3	1.90	0.54
38:BD:30:GLU:HG3	38:BD:63:ARG:NE	2.22	0.54
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.08	0.54
39:BE:181:LEU:HD21	51:BT:7:ILE:HG22	1.89	0.54
46:BO:104:ARG:C	46:BO:106:LEU:H	2.16	0.54
47:BP:78:PRO:HA	47:BP:110:TYR:CE1	2.43	0.54
47:BP:114:ILE:HD12	47:BP:115:LEU:N	2.22	0.54
56:BY:13:VAL:HG21	56:BY:72:VAL:HB	1.89	0.54
57:BZ:146:ILE:HA	57:BZ:174:VAL:CG1	2.37	0.54
1:CA:372:C:N4	1:CA:387:U:H2'	2.23	0.54
1:CA:542:G:H5'	4:CD:41:GLY:HA3	1.90	0.54
1:CA:707:C:H2'	1:CA:708:C:H6	1.71	0.54
2:CB:97:TRP:CZ2	2:CB:176:GLU:HG3	2.43	0.54
2:CB:168:THR:HG23	2:CB:192:SER:OG	2.08	0.54
4:CD:150:GLU:C	4:CD:152:SER:H	2.16	0.54
5:CE:53:LEU:O	5:CE:57:LYS:HG3	2.07	0.54
6:CF:59:TYR:HD2	6:CF:61:LEU:HD11	1.73	0.54
10:CJ:13:HIS:CD2	10:CJ:13:HIS:C	2.86	0.54
13:CM:29:ARG:HD3	13:CM:64:TRP:CZ3	2.43	0.54
13:CM:65:LYS:HB2	13:CM:66:LEU:HD12	1.90	0.54
13:CM:82:MET:HE2	35:DA:888:C:H1'	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:74:ARG:HH21	18:CR:81:PHE:HA	1.72	0.54
25:D0:47:PRO:HB2	25:D0:51:VAL:O	2.08	0.54
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.43	0.54
37:DC:59:ARG:HG2	37:DC:62:VAL:CG2	2.37	0.54
38:DD:52:ARG:HB2	38:DD:53:PHE:CE2	2.42	0.54
39:DE:17:ASP:OD2	39:DE:18:ASP:N	2.35	0.54
39:DE:51:PHE:N	39:DE:74:PRO:HG2	2.23	0.54
40:DF:135:LYS:HB3	40:DF:138:GLU:HG3	1.89	0.54
43:DI:41:GLU:O	43:DI:45:LYS:HG2	2.08	0.54
43:DI:129:THR:HA	43:DI:137:PRO:HA	1.90	0.54
47:DP:59:LEU:O	47:DP:59:LEU:HG	2.08	0.54
47:DP:62:LEU:HD22	47:DP:62:LEU:N	2.22	0.54
48:DQ:24:GLY:O	48:DQ:102:VAL:HG23	2.07	0.54
53:DV:4:ILE:HG22	53:DV:4:ILE:O	2.08	0.54
54:DW:10:VAL:O	54:DW:11:ARG:CB	2.55	0.54
55:DX:66:LEU:C	55:DX:66:LEU:HD13	2.33	0.54
56:DY:42:VAL:CG1	56:DY:65:ALA:HB3	2.38	0.54
1:AA:1157:A:H61	1:AA:1178:G:H1'	1.72	0.54
1:AA:1190:G:OP1	3:AC:4:LYS:HA	2.07	0.54
1:AA:1400:C:C1'	23:AX:18:G:O6	2.55	0.54
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.42	0.54
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.73	0.54
2:AB:9:GLU:HB2	2:AB:48:MET:SD	2.47	0.54
5:AE:72:GLN:O	5:AE:73:ASN:HB2	2.08	0.54
5:AE:139:LEU:HD23	5:AE:142:LEU:HD11	1.90	0.54
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.38	0.54
13:AM:65:LYS:HB2	13:AM:66:LEU:HD12	1.89	0.54
16:AP:81:ARG:C	16:AP:83:GLU:H	2.16	0.54
17:AQ:67:LYS:C	17:AQ:69:LYS:H	2.15	0.54
19:AS:35:SER:O	19:AS:71:LEU:HD12	2.07	0.54
35:BA:146:G:C2'	35:BA:147:U:H5'	2.38	0.54
35:BA:1424:G:H2'	35:BA:1425:G:O4'	2.08	0.54
35:BA:1833:U:H2'	35:BA:1834:U:C6	2.38	0.54
39:BE:33:VAL:HG13	39:BE:69:LYS:HE3	1.90	0.54
39:BE:73:GLU:CD	39:BE:73:GLU:H	2.16	0.54
40:BF:108:LYS:O	40:BF:112:MET:HG3	2.08	0.54
42:BH:13:LYS:HG2	42:BH:14:GLY:N	2.20	0.54
42:BH:44:VAL:HG12	42:BH:44:VAL:O	2.08	0.54
42:BH:77:LYS:HD2	42:BH:77:LYS:N	2.22	0.54
43:BI:37:VAL:HG12	43:BI:38:LEU:N	2.22	0.54
45:BN:99:LEU:HD12	45:BN:122:VAL:HG21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:108:LYS:HD2	47:BP:108:LYS:N	2.23	0.54
49:BR:45:ARG:HD3	49:BR:97:VAL:HG11	1.89	0.54
49:BR:103:ARG:HG2	49:BR:103:ARG:NH1	2.23	0.54
53:BV:2:PHE:O	53:BV:14:VAL:O	2.25	0.54
53:BV:34:GLU:O	53:BV:36:PRO:N	2.41	0.54
57:BZ:151:HIS:ND1	57:BZ:152:ALA:N	2.55	0.54
1:CA:131:C:H2'	1:CA:132:C:C6	2.43	0.54
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.08	0.54
1:CA:313:A:H2'	1:CA:314:C:C6	2.43	0.54
1:CA:321:A:H5'	1:CA:1436:U:C2	2.43	0.54
1:CA:878:G:C5'	8:CH:89:PRO:HB2	2.38	0.54
1:CA:1227:A:C2	19:CS:83:HIS:HB3	2.43	0.54
1:CA:1435:G:H2'	1:CA:1436:U:C5	2.42	0.54
1:CA:1501:C:C3'	1:CA:1502:A:H5''	2.38	0.54
2:CB:135:GLN:O	2:CB:139:LYS:HG2	2.08	0.54
2:CB:213:LEU:HD22	2:CB:214:ILE:HD13	1.90	0.54
6:CF:45:LEU:HD23	6:CF:45:LEU:C	2.32	0.54
9:CI:121:ARG:HD3	9:CI:121:ARG:C	2.32	0.54
10:CJ:16:LEU:CD2	10:CJ:94:VAL:HG13	2.38	0.54
13:CM:50:GLU:N	13:CM:50:GLU:OE1	2.40	0.54
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.51	0.54
17:CQ:96:GLU:CD	17:CQ:96:GLU:H	2.16	0.54
20:CT:47:GLY:O	20:CT:49:ALA:N	2.41	0.54
21:CU:20:LYS:HD3	21:CU:21:TYR:CE1	2.43	0.54
22:CW:55:U:C2'	22:CW:56:C:H5''	2.28	0.54
26:D1:82:LEU:O	26:D1:84:GLY:N	2.40	0.54
35:DA:813:U:H2'	35:DA:814:C:C6	2.43	0.54
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.73	0.54
35:DA:1998:G:H2'	35:DA:1999:C:H6	1.73	0.54
35:DA:2768:C:O2'	35:DA:2769:C:H5'	2.07	0.54
36:DB:42:C:O3'	41:DG:67:LYS:HE2	2.07	0.54
37:DC:82:LYS:C	37:DC:86:ALA:HB3	2.33	0.54
38:DD:11:PRO:C	38:DD:13:ARG:N	2.66	0.54
39:DE:69:LYS:HZ1	39:DE:89:ASP:HA	1.72	0.54
39:DE:79:ARG:HH11	39:DE:79:ARG:HG2	1.72	0.54
41:DG:34:LEU:HD23	41:DG:161:THR:HB	1.88	0.54
42:DH:12:PRO:HB3	42:DH:76:VAL:CG1	2.38	0.54
42:DH:84:SER:O	42:DH:133:VAL:O	2.25	0.54
43:DI:113:ARG:NH1	43:DI:132:PRO:HB3	2.23	0.54
46:DO:71:ARG:HH12	51:DT:74:ARG:NH2	2.06	0.54
50:DS:89:ARG:O	50:DS:90:GLY:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:98:VAL:HG12	50:DS:100:ALA:HB2	1.90	0.54
51:DT:31:SER:HG	51:DT:32:TYR:N	2.05	0.54
53:DV:34:GLU:HA	53:DV:58:VAL:HA	1.90	0.54
55:DX:70:LEU:C	55:DX:70:LEU:HD23	2.32	0.54
57:DZ:61:LEU:HD12	57:DZ:65:GLN:HB2	1.88	0.54
1:AA:99:U:H2'	1:AA:100:C:C6	2.42	0.54
1:AA:585:G:H8	1:AA:585:G:O5'	1.91	0.54
1:AA:688:G:H2'	1:AA:689:C:C6	2.42	0.54
1:AA:721:G:H4'	1:AA:722:A:O4'	2.07	0.54
1:AA:992:U:H5''	1:AA:1043:C:H41	1.72	0.54
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.89	0.54
2:AB:75:LYS:HD3	2:AB:75:LYS:C	2.33	0.54
3:AC:12:LEU:HD13	14:AN:56:VAL:O	2.08	0.54
4:AD:7:PRO:O	4:AD:10:ARG:HB3	2.08	0.54
4:AD:150:GLU:C	4:AD:152:SER:H	2.15	0.54
9:AI:88:TYR:O	9:AI:89:ASN:HB2	2.06	0.54
22:AW:38:A:H2'	22:AW:39:C:O4'	2.07	0.54
29:B4:9:LEU:HD21	41:BG:101:ILE:HD13	1.90	0.54
31:B6:14:THR:O	31:B6:49:HIS:HA	2.08	0.54
31:B6:44:ARG:O	31:B6:45:LYS:HB2	2.08	0.54
35:BA:1794:U:H2'	35:BA:1795:C:H6	1.73	0.54
36:BB:50:G:OP1	50:BS:63:THR:HG23	2.08	0.54
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.73	0.54
39:BE:93:VAL:HG11	39:BE:180:ASN:O	2.08	0.54
40:BF:4:VAL:HG12	40:BF:17:ARG:HH11	1.73	0.54
40:BF:9:ILE:HG22	40:BF:11:VAL:C	2.33	0.54
42:BH:94:TYR:CE1	42:BH:160:LYS:HE3	2.43	0.54
45:BN:62:VAL:HG13	45:BN:62:VAL:O	2.08	0.54
45:BN:119:ARG:HH11	45:BN:119:ARG:CG	2.21	0.54
46:BO:2:ILE:HB	46:BO:33:ALA:HB3	1.90	0.54
51:BT:38:ASN:ND2	51:BT:38:ASN:C	2.66	0.54
54:BW:95:ILE:O	54:BW:95:ILE:HG13	2.07	0.54
56:BY:37:VAL:HG21	56:BY:72:VAL:HG11	1.90	0.54
56:BY:77:PRO:O	56:BY:78:ALA:HB2	2.08	0.54
1:CA:34:C:C2'	1:CA:35:G:H5''	2.37	0.54
1:CA:314:C:O2'	1:CA:315:A:H5'	2.07	0.54
1:CA:400:C:H2'	1:CA:401:C:H5'	1.84	0.54
1:CA:819:A:H4'	1:CA:820:U:OP2	2.08	0.54
1:CA:922:G:C2	1:CA:1396:A:C2	2.95	0.54
3:CC:20:SER:CB	3:CC:40:ARG:HH22	2.21	0.54
7:CG:101:LEU:O	7:CG:104:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.56	0.54
19:CS:61:TYR:CG	19:CS:62:ILE:N	2.76	0.54
20:CT:67:ALA:HA	20:CT:73:HIS:H	1.73	0.54
25:D0:56:ASP:OD2	35:DA:2364:C:H4'	2.08	0.54
35:DA:242:G:N2	35:DA:254:G:H2'	2.23	0.54
35:DA:303:U:H2'	35:DA:304:G:C8	2.43	0.54
35:DA:330:A:O2'	35:DA:331:A:C8	2.58	0.54
35:DA:720:C:H2'	35:DA:721:C:H6	1.73	0.54
35:DA:845:G:OP2	35:DA:845:G:H8	1.91	0.54
35:DA:962:G:C2'	35:DA:963:U:H5'	2.37	0.54
35:DA:1114:G:H2'	35:DA:1115:G:H5''	1.90	0.54
35:DA:1171:G:H3'	35:DA:1173:G:O4'	2.08	0.54
35:DA:1466:G:H5'	35:DA:1467:C:OP1	2.08	0.54
35:DA:1478:G:O2'	35:DA:1558:A:C2	2.61	0.54
35:DA:1913:A:P	35:DA:1914:C:OP1	2.66	0.54
35:DA:2127:G:H1'	35:DA:2173:A:H2	1.72	0.54
35:DA:2485:G:H5''	48:DQ:46:GLN:HE21	1.72	0.54
36:DB:54:G:N2	41:DG:29:TRP:HE1	2.01	0.54
38:DD:210:GLY:C	38:DD:212:SER:N	2.66	0.54
40:DF:182:ASN:N	40:DF:182:ASN:HD22	2.06	0.54
43:DI:129:THR:HG21	43:DI:135:GLU:HB3	1.89	0.54
44:DJ:102:UNK:C	44:DJ:104:UNK:H	2.21	0.54
45:DN:14:VAL:HG12	45:DN:15:LEU:N	2.22	0.54
47:DP:40:SER:C	47:DP:41:ARG:NH2	2.66	0.54
47:DP:71:VAL:HG12	47:DP:72:PRO:HD3	1.90	0.54
47:DP:113:LYS:HG2	47:DP:113:LYS:O	2.08	0.54
51:DT:30:VAL:CG1	51:DT:84:GLN:HB2	2.37	0.54
54:DW:14:PRO:HB3	54:DW:101:SER:HB3	1.88	0.54
56:DY:81:LYS:HB3	56:DY:96:ILE:HG23	1.89	0.54
1:AA:194:C:C2'	1:AA:195:A:H5''	2.36	0.53
1:AA:198:G:H2'	1:AA:199:G:C8	2.43	0.53
1:AA:627:G:O2'	1:AA:628:G:H5'	2.07	0.53
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.89	0.53
2:AB:15:VAL:HG21	2:AB:209:ARG:CZ	2.38	0.53
3:AC:95:THR:HG21	3:AC:97:LYS:HE3	1.88	0.53
5:AE:6:PHE:HD2	5:AE:36:ASP:HB3	1.73	0.53
5:AE:13:ILE:HG22	5:AE:14:ARG:N	2.18	0.53
5:AE:107:ARG:C	5:AE:109:ILE:H	2.16	0.53
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.08	0.53
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.90	0.53
7:AG:101:LEU:O	7:AG:104:LEU:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:6:ILE:HG22	10:AJ:8:LEU:HG	1.89	0.53
15:AO:4:THR:OG1	15:AO:7:GLU:HG3	2.09	0.53
24:AY:77:PRO:O	24:AY:78:LYS:C	2.50	0.53
26:B1:23:LYS:HD2	26:B1:28:GLY:HA3	1.88	0.53
34:B9:22:ARG:HB2	34:B9:24:TYR:CE1	2.43	0.53
35:BA:1171:G:N7	35:BA:1173:G:H1'	2.23	0.53
35:BA:1396:U:H2'	35:BA:1396:U:O2	2.08	0.53
35:BA:1411:C:H2'	35:BA:1412:A:C8	2.42	0.53
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.43	0.53
35:BA:1937:A:N7	35:BA:1939:U:H2'	2.23	0.53
37:BC:122:ALA:HB2	37:BC:142:ALA:HA	1.90	0.53
38:BD:43:ARG:HH11	38:BD:49:ILE:HB	1.73	0.53
41:BG:71:THR:CG2	41:BG:89:GLY:HA3	2.38	0.53
43:BI:85:GLU:HA	43:BI:85:GLU:OE2	2.07	0.53
46:BO:17:ARG:HH11	46:BO:17:ARG:HG2	1.72	0.53
46:BO:88:ASN:ND2	46:BO:90:GLN:HB2	2.19	0.53
48:BQ:130:LYS:HZ3	57:BZ:80:ARG:HD2	1.73	0.53
52:BU:107:ALA:O	52:BU:111:GLU:HG2	2.08	0.53
54:BW:17:VAL:O	54:BW:18:ARG:C	2.51	0.53
1:CA:19:C:O2'	1:CA:20:U:H5'	2.07	0.53
1:CA:139:G:O2'	1:CA:140:A:H5'	2.08	0.53
1:CA:291:C:O2'	1:CA:292:G:H5'	2.08	0.53
1:CA:498:U:O2	1:CA:498:U:H2'	2.07	0.53
1:CA:853:G:H2'	1:CA:854:G:H8	1.73	0.53
2:CB:80:ILE:HG22	2:CB:80:ILE:O	2.08	0.53
2:CB:100:GLY:O	2:CB:103:THR:N	2.41	0.53
3:CC:18:TRP:H	3:CC:18:TRP:HE3	1.53	0.53
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.73	0.53
8:CH:38:ILE:HA	8:CH:41:ARG:HB3	1.90	0.53
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.41	0.53
12:CL:57:LEU:N	12:CL:57:LEU:HD22	2.23	0.53
14:CN:37:PHE:HE1	14:CN:53:LEU:HD22	1.72	0.53
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.73	0.53
22:CV:12:G:H4'	35:DA:1908:C:O2	2.08	0.53
28:D3:26:LEU:O	28:D3:35:ARG:NE	2.41	0.53
33:D8:46:ARG:HG2	33:D8:46:ARG:HH11	1.74	0.53
35:DA:150:C:H2'	35:DA:151:C:C6	2.43	0.53
35:DA:621:A:H2'	35:DA:622:G:C5'	2.38	0.53
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.08	0.53
35:DA:2506:U:H4'	35:DA:2507:C:OP1	2.07	0.53
37:DC:51:PRO:HD2	37:DC:55:ASP:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:21:PHE:HB3	38:DD:24:ILE:HG12	1.89	0.53
38:DD:32:SER:O	38:DD:36:PRO:CD	2.54	0.53
38:DD:176:ARG:HD3	38:DD:182:LEU:HD21	1.90	0.53
41:DG:47:LYS:N	41:DG:51:ARG:HG3	2.24	0.53
45:DN:89:LYS:HZ2	45:DN:89:LYS:HB3	1.73	0.53
56:DY:17:SER:OG	56:DY:18:GLY:N	2.41	0.53
56:DY:76:CYS:HB3	56:DY:96:ILE:CD1	2.38	0.53
57:DZ:4:ARG:HG2	57:DZ:58:VAL:CB	2.27	0.53
1:AA:135:C:H2'	1:AA:136:C:H5'	1.90	0.53
1:AA:192:U:C4'	20:AT:103:GLY:H	2.18	0.53
1:AA:779:C:O2'	1:AA:780:A:H5'	2.09	0.53
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.42	0.53
2:AB:46:LYS:HA	2:AB:49:GLU:OE1	2.08	0.53
2:AB:152:PHE:HE2	2:AB:155:LEU:HB3	1.73	0.53
4:AD:196:LEU:HA	6:CF:16:GLN:HG3	1.90	0.53
5:AE:7:GLU:O	5:AE:112:LEU:HD13	2.08	0.53
5:AE:20:GLN:O	5:AE:21:ALA:C	2.51	0.53
7:AG:54:THR:CG2	7:AG:56:GLN:HG2	2.38	0.53
8:AH:30:ARG:HH11	8:AH:30:ARG:CB	2.21	0.53
10:AJ:16:LEU:CD2	10:AJ:94:VAL:HG13	2.38	0.53
11:AK:78:GLN:NE2	11:AK:78:GLN:N	2.56	0.53
13:AM:104:ARG:O	13:AM:105:THR:HG23	2.09	0.53
14:AN:41:ARG:HE	14:AN:42:ILE:CD1	2.21	0.53
19:AS:40:ILE:HD12	19:AS:62:ILE:HD11	1.90	0.53
25:B0:47:PRO:HB2	25:B0:51:VAL:O	2.07	0.53
26:B1:80:LEU:O	26:B1:82:LEU:HD22	2.08	0.53
30:B5:58:LEU:H	30:B5:58:LEU:HD12	1.73	0.53
33:B8:25:MET:HB2	47:BP:62:LEU:HD21	1.89	0.53
35:BA:826:U:H2'	35:BA:828:U:O4'	2.09	0.53
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.43	0.53
35:BA:1755:A:H2'	35:BA:1756:G:H5'	1.89	0.53
36:BB:55:U:O2'	36:BB:56:G:H5'	2.09	0.53
42:BH:77:LYS:H	42:BH:77:LYS:CD	2.20	0.53
46:BO:32:TYR:CD1	46:BO:32:TYR:N	2.76	0.53
46:BO:98:VAL:HG12	46:BO:117:LEU:HD22	1.91	0.53
47:BP:17:LYS:O	47:BP:17:LYS:HG3	2.08	0.53
47:BP:29:LYS:HB3	47:BP:34:GLY:N	2.23	0.53
50:BS:74:ALA:HB1	50:BS:103:GLU:HG2	1.89	0.53
51:BT:78:LEU:HD23	51:BT:79:HIS:HE1	1.73	0.53
53:BV:34:GLU:HA	53:BV:58:VAL:HA	1.91	0.53
53:BV:35:LEU:C	53:BV:37:VAL:N	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:17:SER:CB	56:BY:71:LYS:HE2	2.37	0.53
57:BZ:108:PRO:HG3	57:BZ:144:LEU:HB2	1.90	0.53
1:CA:254:G:O2'	1:CA:255:G:H5'	2.08	0.53
1:CA:588:G:N1	1:CA:589:C:N4	2.56	0.53
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.88	0.53
1:CA:1227:A:N3	19:CS:83:HIS:HB3	2.24	0.53
1:CA:1363(A):A:C4'	1:CA:1364:U:H5''	2.24	0.53
4:CD:35:ARG:O	4:CD:37:PRO:HD3	2.08	0.53
5:CE:13:ILE:O	5:CE:14:ARG:HB3	2.08	0.53
7:CG:57:GLU:C	7:CG:59:LEU:H	2.16	0.53
10:CJ:50:ILE:HD11	14:CN:41:ARG:HH11	1.73	0.53
16:CP:81:ARG:C	16:CP:83:GLU:H	2.16	0.53
19:CS:14:HIS:C	19:CS:15:LEU:HD22	2.32	0.53
35:DA:744:G:OP1	39:DE:132:HIS:HB3	2.08	0.53
35:DA:2308:G:O6	35:DA:2310:A:H2'	2.08	0.53
38:DD:30:GLU:HG3	38:DD:63:ARG:NE	2.23	0.53
38:DD:152:GLY:O	38:DD:154:LYS:HG3	2.09	0.53
38:DD:270:ILE:O	38:DD:271:ILE:HG23	2.08	0.53
39:DE:13:ARG:HA	39:DE:21:VAL:O	2.08	0.53
41:DG:138:GLN:HB3	41:DG:153:ARG:O	2.08	0.53
45:DN:3:THR:C	45:DN:4:TYR:CD1	2.87	0.53
50:DS:42:ASP:O	50:DS:43:GLU:HB2	2.08	0.53
52:DU:91:ASP:O	52:DU:92:ARG:O	2.26	0.53
52:DU:92:ARG:HH22	53:DV:10:LYS:CA	2.20	0.53
53:DV:34:GLU:O	53:DV:36:PRO:N	2.41	0.53
1:AA:70:G:O2'	1:AA:71:C:H5'	2.09	0.53
1:AA:253:U:H2'	1:AA:254:G:C8	2.43	0.53
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.43	0.53
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.74	0.53
1:AA:1447:A:O2'	1:AA:1452:C:H5'	2.08	0.53
2:AB:168:THR:HG23	2:AB:192:SER:OG	2.09	0.53
4:AD:157:LEU:HD12	4:AD:157:LEU:N	2.22	0.53
4:AD:200:GLU:CD	4:AD:200:GLU:H	2.16	0.53
14:AN:27:CYS:SG	14:AN:28:GLY:N	2.82	0.53
29:B4:16:CYS:SG	29:B4:36:CYS:HB2	2.48	0.53
35:BA:30:G:H2'	35:BA:31:C:H6	1.72	0.53
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.43	0.53
36:BB:65:C:C2'	36:BB:66:A:H5'	2.39	0.53
36:BB:98:G:H2'	36:BB:99:G:O4'	2.08	0.53
37:BC:47:LEU:HA	37:BC:207:THR:HA	1.91	0.53
38:BD:33:LEU:HD23	38:BD:34:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:6:LEU:HA	43:BI:15:VAL:HG23	1.88	0.53
43:BI:77:LEU:HD21	43:BI:79:ILE:HD13	1.90	0.53
43:BI:133:HIS:CB	43:BI:134:PRO:CD	2.84	0.53
45:BN:15:LEU:HD23	45:BN:15:LEU:C	2.34	0.53
53:BV:16:PRO:HG2	53:BV:17:GLY:H	1.73	0.53
54:BW:10:VAL:O	54:BW:11:ARG:CB	2.54	0.53
56:BY:27:VAL:HA	56:BY:28:LYS:CE	2.38	0.53
56:BY:28:LYS:HG2	56:BY:39:VAL:HG22	1.89	0.53
1:CA:11:G:C6	1:CA:12:U:C4	2.96	0.53
1:CA:192:U:H4'	20:CT:103:GLY:N	2.17	0.53
1:CA:277:C:H2'	1:CA:278:G:H8	1.72	0.53
1:CA:969:A:O2'	1:CA:970:C:H5'	2.08	0.53
1:CA:1130:A:H61	1:CA:1143:G:H21	1.55	0.53
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.08	0.53
1:CA:1405:G:O2'	1:CA:1406:U:H5'	2.08	0.53
2:CB:61:LEU:HD11	2:CB:160:ASP:CB	2.38	0.53
2:CB:120:ALA:O	2:CB:124:SER:HB2	2.08	0.53
2:CB:127:ILE:HD11	2:CB:139:LYS:NZ	2.23	0.53
5:CE:72:GLN:O	5:CE:73:ASN:HB2	2.08	0.53
5:CE:101:ILE:HG12	5:CE:118:ILE:O	2.07	0.53
6:CF:39:LYS:O	6:CF:40:VAL:HB	2.08	0.53
7:CG:12:LEU:O	7:CG:14:PRO:HD3	2.09	0.53
18:CR:25:THR:O	18:CR:26:LEU:HD23	2.08	0.53
26:D1:62:VAL:HG22	26:D1:63:ALA:O	2.08	0.53
28:D3:29:ARG:HG3	28:D3:29:ARG:NH1	2.24	0.53
29:D4:15:ILE:H	29:D4:31:ILE:CG2	2.21	0.53
30:D5:2:ALA:HB3	35:DA:747:U:N1	2.23	0.53
35:DA:154(A):C:H41	35:DA:171:G:H1	1.55	0.53
35:DA:207:A:H2'	35:DA:208:C:O4'	2.07	0.53
35:DA:782:A:N1	38:DD:226:MET:HE2	2.23	0.53
35:DA:828:U:H3'	35:DA:828:U:O2	2.09	0.53
35:DA:903:C:H2'	35:DA:904:C:C5'	2.36	0.53
35:DA:971:C:H2'	35:DA:972:G:H5'	1.90	0.53
35:DA:1046:A:C2	44:DJ:8:UNK:N	2.77	0.53
35:DA:1424:G:H2'	35:DA:1425:G:O4'	2.08	0.53
35:DA:1777:U:O2'	35:DA:1778:U:H5'	2.08	0.53
38:DD:8:PRO:HB3	38:DD:14:ARG:HB3	1.88	0.53
38:DD:43:ARG:HH11	38:DD:49:ILE:HB	1.73	0.53
40:DF:7:TYR:HD2	40:DF:16:GLY:H	1.55	0.53
41:DG:55:LYS:HA	41:DG:58:GLN:CG	2.39	0.53
48:DQ:30:GLY:HA2	48:DQ:107:ALA:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:48:ILE:H	51:DT:48:ILE:HD12	1.73	0.53
2:AB:135:GLN:O	2:AB:139:LYS:HG2	2.09	0.53
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.09	0.53
5:AE:72:GLN:O	5:AE:73:ASN:CB	2.56	0.53
7:AG:12:LEU:O	7:AG:14:PRO:HD3	2.09	0.53
8:AH:88:LYS:HB3	8:AH:89:PRO:CD	2.37	0.53
8:AH:114:THR:C	8:AH:116:LYS:H	2.16	0.53
13:AM:22:ILE:HG21	13:AM:25:ILE:HD12	1.91	0.53
13:AM:37:THR:OG1	13:AM:39:ILE:HD13	2.09	0.53
13:AM:54:VAL:HA	13:AM:57:ARG:HG2	1.91	0.53
19:AS:61:TYR:CG	19:AS:62:ILE:N	2.75	0.53
20:AT:14:LYS:HA	20:AT:17:ARG:CZ	2.38	0.53
22:AW:3:C:C2'	22:AW:4:G:H5'	2.35	0.53
27:B2:69:ARG:NH2	35:BA:111:A:H4'	2.24	0.53
30:B5:4:HIS:O	35:BA:2056:G:N2	2.42	0.53
34:B9:18:ARG:NE	34:B9:23:VAL:HG22	2.22	0.53
35:BA:1281:G:O2'	35:BA:1282:U:H5'	2.08	0.53
35:BA:2308:G:O6	35:BA:2310:A:H2'	2.08	0.53
35:BA:2712:U:O2'	35:BA:2712(A):A:P	2.66	0.53
35:BA:2821:A:OP2	39:BE:110:GLY:CA	2.56	0.53
38:BD:121:PRO:HB3	38:BD:135:PHE:HE2	1.71	0.53
39:BE:17:ASP:OD2	39:BE:18:ASP:N	2.35	0.53
42:BH:12:PRO:HB3	42:BH:76:VAL:CG1	2.38	0.53
43:BI:123:LEU:HD13	43:BI:124:GLY:N	2.21	0.53
46:BO:104:ARG:C	46:BO:106:LEU:N	2.65	0.53
47:BP:64:LYS:C	47:BP:66:GLY:N	2.52	0.53
47:BP:113:LYS:O	47:BP:113:LYS:HG2	2.07	0.53
50:BS:66:ALA:CA	50:BS:69:VAL:HG12	2.39	0.53
51:BT:35:LYS:O	51:BT:36:GLU:C	2.52	0.53
51:BT:63:VAL:O	51:BT:73:GLU:HA	2.07	0.53
1:CA:36:C:C3'	1:CA:37:U:C5'	2.81	0.53
1:CA:232:G:H1'	1:CA:262:A:N1	2.22	0.53
1:CA:638:G:O2'	1:CA:639:G:H5'	2.09	0.53
2:CB:85:ALA:HB1	2:CB:92:TYR:CD2	2.44	0.53
5:CE:127:ASN:O	5:CE:131:ILE:HG12	2.09	0.53
9:CI:23:ASN:HD22	9:CI:23:ASN:N	2.05	0.53
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.90	0.53
12:CL:82:ILE:HD12	12:CL:96:HIS:O	2.08	0.53
19:CS:46:GLY:HA2	19:CS:61:TYR:OH	2.08	0.53
58:CX:19:G:N3	58:CX:19:G:C4'	2.71	0.53
35:DA:639:U:H2'	35:DA:640:C:H6	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:691:C:C1'	38:DD:43:ARG:HH21	2.21	0.53
35:DA:1593:G:H8	35:DA:1593:G:H5'	1.71	0.53
35:DA:2639:A:C2'	35:DA:2640:G:H5'	2.38	0.53
39:DE:181:LEU:HD21	51:DT:7:ILE:HG22	1.89	0.53
41:DG:62:LEU:C	41:DG:64:THR:H	2.15	0.53
42:DH:61:HIS:O	42:DH:64:LEU:HB2	2.08	0.53
42:DH:77:LYS:H	42:DH:77:LYS:CD	2.20	0.53
46:DO:98:VAL:HG12	46:DO:117:LEU:HD22	1.88	0.53
49:DR:63:ARG:HA	49:DR:80:PHE:CZ	2.44	0.53
50:DS:35:ILE:O	50:DS:35:ILE:HG23	2.07	0.53
50:DS:66:ALA:C	50:DS:68:GLN:N	2.66	0.53
52:DU:110:VAL:O	52:DU:114:LYS:HG2	2.09	0.53
57:DZ:128:VAL:HG13	57:DZ:129:SER:N	2.23	0.53
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.74	0.53
1:AA:1324:A:O4'	1:AA:1362:C:H4'	2.08	0.53
1:AA:1466:C:O2'	1:AA:1467:G:H5'	2.09	0.53
2:AB:85:ALA:HB1	2:AB:92:TYR:CD2	2.43	0.53
2:AB:97:TRP:CZ2	2:AB:176:GLU:HG3	2.44	0.53
2:AB:180:LEU:O	2:AB:181:PHE:HB2	2.08	0.53
5:AE:20:GLN:O	5:AE:23:GLY:O	2.26	0.53
7:AG:15:ASP:HB3	7:AG:19:GLY:CA	2.38	0.53
9:AI:99:LEU:C	9:AI:101:PHE:H	2.16	0.53
12:AL:66:TYR:HB3	12:AL:96:HIS:CD2	2.44	0.53
13:AM:11:ARG:HA	13:AM:45:VAL:HB	1.91	0.53
13:AM:50:GLU:N	13:AM:50:GLU:OE1	2.41	0.53
24:AY:51:ILE:HD12	24:AY:92:ILE:HD12	1.89	0.53
26:B1:21:ARG:NH1	35:BA:2079:U:H5''	2.24	0.53
29:B4:15:ILE:H	29:B4:31:ILE:CG2	2.21	0.53
31:B6:11:LEU:CD2	31:B6:51:GLU:HB2	2.32	0.53
34:B9:9:ARG:NH1	34:B9:14:CYS:O	2.41	0.53
35:BA:405:U:H3'	35:BA:406:G:H5'	1.90	0.53
35:BA:484:C:H2'	35:BA:485:C:C6	2.41	0.53
35:BA:845:G:H8	35:BA:845:G:OP2	1.91	0.53
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.36	0.53
35:BA:1668:A:H4'	35:BA:1669:A:O5'	2.09	0.53
35:BA:1915:U:H3'	35:BA:1916:A:H5''	1.88	0.53
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.44	0.53
36:BB:75:G:H2'	36:BB:76:G:O4'	2.09	0.53
38:BD:198:ASN:C	38:BD:198:ASN:HD22	2.16	0.53
38:BD:270:ILE:C	38:BD:270:ILE:HD12	2.32	0.53
40:BF:196:LEU:C	40:BF:198:ALA:N	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:61:HIS:O	42:BH:64:LEU:HB2	2.08	0.53
46:BO:64:ARG:HG2	46:BO:79:PHE:CD1	2.44	0.53
47:BP:39:LYS:O	47:BP:40:SER:HB3	2.09	0.53
47:BP:98:GLU:O	47:BP:101:VAL:HG22	2.09	0.53
47:BP:139:LYS:C	47:BP:141:ALA:H	2.16	0.53
48:BQ:55:VAL:HG23	48:BQ:56:ARG:N	2.22	0.53
49:BR:49:ASP:O	49:BR:51:LEU:N	2.41	0.53
51:BT:30:VAL:HG21	51:BT:84:GLN:N	2.22	0.53
52:BU:70:ARG:HA	52:BU:74:LEU:O	2.08	0.53
54:BW:64:MET:O	54:BW:65:LEU:HG	2.08	0.53
55:BX:10:ALA:HB1	55:BX:11:PRO:HD2	1.89	0.53
1:CA:20:U:H1'	1:CA:916:G:N2	2.23	0.53
1:CA:627:G:O2'	1:CA:628:G:H5'	2.08	0.53
1:CA:1465:C:C2	1:CA:1466:C:C5	2.97	0.53
3:CC:95:THR:HG21	3:CC:97:LYS:HE3	1.90	0.53
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	1.90	0.53
5:CE:69:VAL:HG12	5:CE:71:LEU:HG	1.91	0.53
16:CP:28:ARG:HG2	16:CP:29:ASP:OD2	2.08	0.53
20:CT:14:LYS:HA	20:CT:17:ARG:CZ	2.39	0.53
22:CV:55:U:C5'	22:CV:55:U:H6	2.20	0.53
27:D2:10:LEU:HD11	35:DA:77:C:H5''	1.89	0.53
34:D9:16:VAL:HG11	35:DA:1032:A:O3'	2.08	0.53
35:DA:198:C:H5'	35:DA:2244:U:OP1	2.08	0.53
35:DA:289:A:H2'	35:DA:290:G:O4'	2.08	0.53
35:DA:691:C:H4'	38:DD:43:ARG:HE	1.73	0.53
35:DA:747:U:O2	35:DA:2014:A:H1'	2.09	0.53
35:DA:1762:A:H8	35:DA:1762:A:O5'	1.92	0.53
35:DA:2366:A:H2'	35:DA:2367:G:O4'	2.08	0.53
38:DD:71:ASP:CG	38:DD:103:ARG:HH22	2.16	0.53
38:DD:93:ALA:HB3	38:DD:105:ILE:CG2	2.39	0.53
38:DD:121:PRO:HB3	38:DD:135:PHE:HE2	1.74	0.53
39:DE:69:LYS:HZ2	39:DE:89:ASP:HA	1.73	0.53
39:DE:104:VAL:HG12	39:DE:196:VAL:CG2	2.39	0.53
41:DG:117:PHE:CD1	41:DG:117:PHE:C	2.87	0.53
42:DH:156:ALA:C	42:DH:158:HIS:N	2.66	0.53
54:DW:31:GLU:O	54:DW:35:ILE:HG12	2.09	0.53
57:DZ:5:LEU:HD23	57:DZ:6:LYS:N	2.24	0.53
1:AA:419:C:H42	1:AA:424:G:H1	1.56	0.53
1:AA:939:G:H1	1:AA:1344:C:N4	2.06	0.53
1:AA:1118:C:H6	1:AA:1118:C:O5'	1.91	0.53
1:AA:1144:G:H21	1:AA:1146:A:H62	1.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:119:GLN:O	4:AD:123:HIS:CD2	2.61	0.53
6:AF:59:TYR:HD2	6:AF:61:LEU:HD11	1.73	0.53
7:AG:135:VAL:O	7:AG:139:GLU:HG3	2.08	0.53
12:AL:30:ARG:HB3	12:AL:82:ILE:HG22	1.91	0.53
22:AW:1:C:H2'	22:AW:2:G:C8	2.43	0.53
28:B3:41:PRO:HA	28:B3:44:ARG:HG2	1.91	0.53
35:BA:252:G:P	47:BP:50:ARG:HH11	2.31	0.53
35:BA:534:U:O2'	52:BU:49:HIS:HD2	1.92	0.53
35:BA:1999:C:H5''	35:BA:2723:C:O2'	2.09	0.53
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.30	0.53
36:BB:17:C:H2'	36:BB:18:G:O4'	2.07	0.53
36:BB:65:C:O2'	36:BB:66:A:H5'	2.08	0.53
49:BR:56:LYS:HZ2	49:BR:88:ARG:N	2.07	0.53
50:BS:66:ALA:C	50:BS:68:GLN:N	2.65	0.53
52:BU:24:TYR:HB2	52:BU:29:SER:HB3	1.91	0.53
54:BW:111:HIS:CG	54:BW:112:GLY:N	2.77	0.53
56:BY:86:ARG:NH2	56:BY:95:LYS:HE3	2.24	0.53
1:CA:356:A:H1'	1:CA:368:U:O2'	2.08	0.53
1:CA:413:G:H1'	1:CA:428:G:H21	1.74	0.53
1:CA:438:G:H2'	1:CA:494:U:O4	2.08	0.53
1:CA:585:G:H8	1:CA:585:G:O5'	1.92	0.53
1:CA:807:A:H2'	1:CA:808:C:H6	1.74	0.53
1:CA:1028:C:N4	1:CA:1034:G:H21	2.07	0.53
1:CA:1053:G:C6	1:CA:1199:U:H2'	2.43	0.53
1:CA:1061:G:H2'	1:CA:1062:U:O5'	2.08	0.53
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.38	0.53
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.73	0.53
3:CC:25:GLY:C	3:CC:27:LYS:H	2.16	0.53
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	1.90	0.53
7:CG:51:GLN:O	7:CG:52:GLU:C	2.52	0.53
8:CH:88:LYS:HB3	8:CH:89:PRO:CD	2.39	0.53
10:CJ:34:VAL:HG13	10:CJ:73:ASP:C	2.33	0.53
17:CQ:12:SER:HB3	17:CQ:20:THR:CB	2.39	0.53
19:CS:58:VAL:O	19:CS:60:VAL:N	2.41	0.53
22:CV:38:A:H2'	22:CV:39:C:C6	2.43	0.53
26:D1:29:GLY:O	26:D1:30:VAL:CG2	2.57	0.53
35:DA:460:A:H2'	35:DA:461:C:O4'	2.08	0.53
35:DA:889:C:H1'	35:DA:890:A:O4'	2.08	0.53
35:DA:1485:G:H1'	35:DA:1505:C:H41	1.73	0.53
35:DA:2001:A:H2'	35:DA:2002:G:C8	2.43	0.53
35:DA:2029:G:H2'	35:DA:2031:A:OP2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2342:C:O2	35:DA:2374:C:H4'	2.08	0.53
35:DA:2712:U:O2'	35:DA:2712(A):A:P	2.67	0.53
35:DA:2821:A:OP2	49:DR:5:LYS:HE3	2.07	0.53
35:DA:2821:A:H2'	35:DA:2822:G:C8	2.44	0.53
37:DC:46:LYS:HE3	37:DC:172:HIS:HA	1.91	0.53
39:DE:141:ILE:O	39:DE:141:ILE:HG13	2.07	0.53
47:DP:23:PRO:C	47:DP:33:ARG:NH1	2.67	0.53
49:DR:54:LEU:HD23	49:DR:66:VAL:HG23	1.90	0.53
50:DS:71:ARG:NH1	50:DS:71:ARG:HG3	2.23	0.53
53:DV:2:PHE:O	53:DV:14:VAL:O	2.26	0.53
53:DV:15:GLU:O	53:DV:96:ILE:HG21	2.08	0.53
1:AA:1028:C:N4	1:AA:1034:G:H21	2.07	0.53
1:AA:1188:A:H5''	14:AN:58:LYS:HZ1	1.73	0.53
1:AA:1305:G:N2	1:AA:1331:G:H1'	2.24	0.53
2:AB:60:ASP:HB3	2:AB:64:ARG:CZ	2.39	0.53
8:AH:97:VAL:CG1	8:AH:98:LYS:H	2.22	0.53
10:AJ:13:HIS:CD2	10:AJ:14:LYS:HG2	2.43	0.53
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.90	0.53
18:AR:58:LEU:HD23	18:AR:62:GLU:HB3	1.90	0.53
19:AS:42:PRO:CD	29:B4:50:VAL:HG21	2.39	0.53
35:BA:271(Q):G:O2'	35:BA:271(R):G:P	2.67	0.53
35:BA:826:U:OP1	35:BA:2428:G:H3'	2.09	0.53
35:BA:910:A:C5	48:BQ:13:GLN:HG3	2.43	0.53
35:BA:1386:C:OP2	35:BA:1396:U:H5	1.92	0.53
35:BA:1817:G:OP1	38:BD:88:ARG:NH2	2.38	0.53
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.39	0.53
35:BA:2855:C:H2'	35:BA:2856:C:H6	1.73	0.53
41:BG:98:ARG:HA	41:BG:101:ILE:CD1	2.36	0.53
43:BI:33:ARG:HB2	43:BI:35:LEU:HG	1.91	0.53
46:BO:107:ARG:HG3	46:BO:112:MET:SD	2.49	0.53
50:BS:50:SER:O	50:BS:76:LYS:HE2	2.08	0.53
51:BT:31:SER:OG	51:BT:43:GLN:N	2.42	0.53
55:BX:41:ASN:O	55:BX:45:THR:HG23	2.08	0.53
1:CA:962:C:H2'	1:CA:963:G:H8	1.73	0.53
1:CA:1070:U:OP1	5:CE:25:ARG:HD2	2.09	0.53
1:CA:1306:A:H2'	1:CA:1307:U:C6	2.44	0.53
3:CC:121:ALA:HA	3:CC:189:ALA:HB2	1.91	0.53
4:CD:7:PRO:O	4:CD:10:ARG:HB3	2.09	0.53
4:CD:14:ARG:N	4:CD:40:PRO:HD3	2.24	0.53
8:CH:4:ASP:HB2	8:CH:89:PRO:CG	2.38	0.53
10:CJ:48:THR:CA	10:CJ:62:HIS:HB3	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	1.91	0.53
19:CS:42:PRO:O	19:CS:43:GLU:CB	2.57	0.53
19:CS:47:HIS:O	19:CS:62:ILE:HG22	2.08	0.53
22:CV:5:G:H2'	22:CV:6:G:O4'	2.09	0.53
31:D6:44:ARG:O	31:D6:45:LYS:HB2	2.09	0.53
33:D8:48:PHE:O	33:D8:49:VAL:CG2	2.51	0.53
35:DA:34:C:H2'	35:DA:35:G:H5'	1.91	0.53
35:DA:604:G:O2'	35:DA:605:C:H5'	2.08	0.53
35:DA:873:G:H1	35:DA:904:C:H42	1.55	0.53
35:DA:1937:A:N7	35:DA:1939:U:H2'	2.24	0.53
35:DA:2102:U:H2'	35:DA:2103:C:C5	2.43	0.53
35:DA:2680:C:O2'	35:DA:2681:C:H5'	2.08	0.53
35:DA:2876:G:H4'	51:DT:3:ARG:HG2	1.91	0.53
36:DB:15:A:H1'	36:DB:110:G:C5	2.44	0.53
36:DB:98:G:H2'	36:DB:99:G:O4'	2.09	0.53
38:DD:44:ASN:HB3	38:DD:48:ARG:O	2.09	0.53
39:DE:36:ARG:NH1	39:DE:85:ASN:OD1	2.41	0.53
40:DF:22:ALA:HB1	40:DF:26:ALA:HA	1.90	0.53
40:DF:198:ALA:C	40:DF:200:GLU:N	2.62	0.53
43:DI:61:ARG:HA	43:DI:65:ALA:HB2	1.90	0.53
43:DI:123:LEU:CD1	43:DI:144:VAL:HG22	2.36	0.53
50:DS:106:ARG:HD2	50:DS:106:ARG:O	2.09	0.53
51:DT:6:LEU:O	51:DT:10:VAL:HG23	2.09	0.53
51:DT:23:ARG:O	51:DT:25:GLY:N	2.38	0.53
51:DT:26:ASP:C	51:DT:26:ASP:OD2	2.51	0.53
56:DY:75:ILE:HG22	56:DY:80:GLY:N	2.24	0.53
1:AA:426:G:P	4:AD:36:ARG:HH12	2.31	0.53
1:AA:660:G:H2'	1:AA:661:G:C8	2.44	0.53
1:AA:674:G:H2'	1:AA:675:A:C8	2.34	0.53
2:AB:213:LEU:HD22	2:AB:214:ILE:HD13	1.89	0.53
3:AC:13:GLY:HA3	14:AN:57:ARG:HD2	1.90	0.53
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.72	0.53
6:AF:12:PRO:HG3	6:AF:57:GLN:O	2.08	0.53
6:AF:37:VAL:HG13	6:AF:65:VAL:CG1	2.39	0.53
7:AG:6:ARG:HB2	7:AG:6:ARG:HH11	1.74	0.53
8:AH:63:LEU:HD22	8:AH:63:LEU:N	2.21	0.53
9:AI:17:VAL:HG21	9:AI:81:ILE:N	2.24	0.53
9:AI:50:LEU:HD21	9:AI:81:ILE:HG21	1.91	0.53
12:AL:68:PRO:O	12:AL:99:ARG:NH1	2.42	0.53
16:AP:28:ARG:HG2	16:AP:29:ASP:OD2	2.09	0.53
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:14:A:N1	23:AX:15:A:N3	2.57	0.53
25:B0:72:ARG:O	25:B0:74:ARG:N	2.42	0.53
31:B6:33:LYS:HE2	31:B6:33:LYS:CA	2.37	0.53
35:BA:528:A:C2	35:BA:2043:C:C5'	2.92	0.53
35:BA:588:U:H1'	40:BF:90:PHE:HB3	1.91	0.53
35:BA:588:U:H2'	35:BA:589:C:C6	2.44	0.53
35:BA:1433:U:O2	35:BA:1561:G:C2	2.62	0.53
35:BA:2127:G:H1'	35:BA:2173:A:H2	1.73	0.53
38:BD:43:ARG:CZ	38:BD:44:ASN:HD21	2.21	0.53
38:BD:213:ARG:O	38:BD:216:GLY:N	2.41	0.53
39:BE:117:MET:HE1	39:BE:124:GLY:HA3	1.91	0.53
42:BH:148:ILE:HG22	42:BH:162:ILE:HD12	1.91	0.53
43:BI:88:ILE:HD12	43:BI:89:TYR:H	1.73	0.53
45:BN:34:LEU:HD11	45:BN:119:ARG:O	2.09	0.53
52:BU:95:LEU:HD13	53:BV:4:ILE:HG23	1.91	0.53
1:CA:676:A:O2'	1:CA:677:U:H5'	2.08	0.53
1:CA:1505:G:H2'	58:CX:15:A:OP2	2.09	0.53
4:CD:114:ARG:HH11	4:CD:114:ARG:CG	2.14	0.53
8:CH:97:VAL:CG1	8:CH:98:LYS:H	2.21	0.53
9:CI:17:VAL:HG21	9:CI:80:GLY:C	2.34	0.53
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.39	0.53
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.72	0.53
12:CL:68:PRO:O	12:CL:99:ARG:NH1	2.41	0.53
15:CO:32:LEU:HD13	15:CO:63:ARG:HG3	1.90	0.53
26:D1:7:ILE:HD12	26:D1:7:ILE:N	2.23	0.53
27:D2:25:VAL:C	27:D2:27:GLU:N	2.65	0.53
27:D2:63:VAL:HA	27:D2:66:GLU:OE1	2.09	0.53
28:D3:28:LEU:N	28:D3:28:LEU:HD22	2.23	0.53
28:D3:52:HIS:CG	36:DB:83:G:H4'	2.44	0.53
31:D6:14:THR:O	31:D6:49:HIS:HA	2.09	0.53
35:DA:57:C:H2'	35:DA:58:G:O4'	2.09	0.53
35:DA:1047:G:H2'	35:DA:1110:G:C2	2.44	0.53
35:DA:1506:C:O2	35:DA:1506:C:H2'	2.09	0.53
35:DA:1607:C:H4'	35:DA:1608:A:O5'	2.08	0.53
35:DA:1914:C:O2	35:DA:1914:C:C4'	2.57	0.53
35:DA:2117:A:C2	35:DA:2119:A:H5'	2.44	0.53
35:DA:2302:G:H21	41:DG:128:ARG:HG3	1.73	0.53
35:DA:2533:A:OP1	35:DA:2665:A:H1'	2.09	0.53
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.43	0.53
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.08	0.53
36:DB:75:G:H2'	36:DB:76:G:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:206:LEU:HD22	38:DD:211:ARG:HG3	1.91	0.53
39:DE:102:VAL:HB	39:DE:199:ARG:O	2.09	0.53
40:DF:25:PRO:C	40:DF:27:GLU:N	2.62	0.53
40:DF:160:ASN:C	40:DF:160:ASN:ND2	2.62	0.53
41:DG:47:LYS:H	41:DG:51:ARG:HG3	1.74	0.53
42:DH:109:PHE:C	42:DH:111:HIS:N	2.66	0.53
43:DI:29:TYR:C	43:DI:32:PRO:HD2	2.34	0.53
47:DP:17:LYS:O	47:DP:18:ARG:C	2.51	0.53
50:DS:13:ARG:O	50:DS:14:VAL:HB	2.08	0.53
50:DS:15:ARG:CB	50:DS:15:ARG:NH1	2.61	0.53
50:DS:51:ALA:HB3	50:DS:73:LEU:HG	1.91	0.53
57:DZ:40:ASP:O	57:DZ:44:PHE:HB2	2.09	0.53
57:DZ:58:VAL:HA	57:DZ:67:LEU:O	2.08	0.53
1:AA:131:C:H2'	1:AA:132:C:C6	2.44	0.53
1:AA:198:G:H2'	1:AA:199:G:H8	1.73	0.53
1:AA:542:G:H2'	1:AA:543:C:H6	1.74	0.53
1:AA:774:G:H2'	1:AA:775:G:H8	1.74	0.53
3:AC:25:GLY:C	3:AC:27:LYS:H	2.17	0.53
6:AF:39:LYS:O	6:AF:40:VAL:HB	2.08	0.53
9:AI:17:VAL:HG21	9:AI:80:GLY:C	2.34	0.53
10:AJ:34:VAL:HG13	10:AJ:73:ASP:C	2.34	0.53
14:AN:51:GLY:C	14:AN:53:LEU:H	2.16	0.53
22:AV:51:C:C2'	22:AV:52:G:O4'	2.57	0.53
35:BA:241:A:H5'	35:BA:243:U:O4'	2.08	0.53
35:BA:554:U:O2'	35:BA:555:U:H5'	2.08	0.53
35:BA:660:G:H5'	40:BF:99:TYR:CE2	2.44	0.53
35:BA:676:A:N1	35:BA:802:A:N1	2.56	0.53
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.91	0.53
35:BA:1766:U:O2'	35:BA:1767:C:H5'	2.09	0.53
35:BA:2580:U:C5'	39:BE:131:ALA:N	2.72	0.53
35:BA:2646:C:OP2	35:BA:2732:G:O2'	2.21	0.53
37:BC:59:ARG:HD3	37:BC:59:ARG:N	2.08	0.53
37:BC:59:ARG:CG	37:BC:62:VAL:HG22	2.38	0.53
38:BD:33:LEU:CD2	38:BD:34:VAL:HG13	2.39	0.53
38:BD:166:GLN:HE21	38:BD:166:GLN:N	2.07	0.53
40:BF:137:LYS:O	40:BF:140:LEU:HB2	2.09	0.53
41:BG:39:ILE:HD11	41:BG:155:MET:SD	2.49	0.53
43:BI:66:GLU:C	43:BI:68:LEU:H	2.17	0.53
43:BI:79:ILE:HG13	43:BI:92:VAL:HG22	1.91	0.53
47:BP:71:VAL:CG1	47:BP:72:PRO:HD3	2.39	0.53
51:BT:41:ARG:O	51:BT:41:ARG:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:92:ARG:O	52:BU:94:ASN:N	2.42	0.53
53:BV:38:LEU:C	53:BV:39:LEU:HD13	2.34	0.53
1:CA:632:A:H3'	1:CA:633:G:C5'	2.38	0.53
1:CA:726:C:H2'	1:CA:727:G:H8	1.74	0.53
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.41	0.53
1:CA:1256:A:OP2	3:CC:26:LYS:NZ	2.42	0.53
3:CC:126:ARG:C	3:CC:127:ARG:HD2	2.33	0.53
7:CG:6:ARG:HG2	7:CG:6:ARG:O	2.09	0.53
10:CJ:13:HIS:CD2	10:CJ:14:LYS:HG2	2.44	0.53
10:CJ:50:ILE:HG23	10:CJ:60:ARG:HH11	1.74	0.53
18:CR:71:LYS:CA	18:CR:74:ARG:HG3	2.39	0.53
19:CS:11:VAL:HG22	19:CS:12:ASP:N	2.08	0.53
35:DA:826:U:H2'	35:DA:828:U:O4'	2.09	0.53
35:DA:1280:G:H2'	35:DA:1281:G:C5'	2.38	0.53
35:DA:2300:G:H1	35:DA:2316:C:H42	1.57	0.53
37:DC:59:ARG:CG	37:DC:62:VAL:HG22	2.37	0.53
38:DD:147:LEU:HD12	38:DD:155:LEU:HD11	1.90	0.53
38:DD:182:LEU:H	38:DD:272:ALA:HB3	1.74	0.53
39:DE:14:ILE:C	39:DE:14:ILE:HD12	2.34	0.53
40:DF:1:MET:C	40:DF:3:GLU:N	2.67	0.53
42:DH:82:GLY:O	42:DH:138:LYS:HD2	2.08	0.53
43:DI:77:LEU:HD21	43:DI:79:ILE:HD13	1.90	0.53
50:DS:16:ASN:O	50:DS:18:ILE:N	2.41	0.53
50:DS:28:VAL:HG12	50:DS:89:ARG:HD2	1.91	0.53
54:DW:1:MET:CG	54:DW:64:MET:HE3	2.36	0.53
56:DY:37:VAL:HG21	56:DY:72:VAL:HG11	1.91	0.53
57:DZ:4:ARG:HA	57:DZ:58:VAL:O	2.08	0.53
57:DZ:23:LYS:HB3	57:DZ:38:TYR:HE1	1.71	0.53
57:DZ:126:VAL:HG12	57:DZ:163:LEU:CB	2.39	0.53
1:AA:1129:C:C4'	1:AA:1130:A:H5'	2.35	0.53
1:AA:1285:A:H5''	21:AU:25:LYS:HD2	1.91	0.53
2:AB:175:ARG:O	2:AB:176:GLU:C	2.51	0.53
6:AF:100:ASN:HD22	18:AR:23:LYS:HZ1	1.57	0.53
8:AH:114:THR:C	8:AH:116:LYS:N	2.64	0.53
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD12	1.91	0.53
11:AK:20:TYR:CE2	11:AK:83:ILE:HD12	2.44	0.53
11:AK:50:TYR:HB3	11:AK:54:ARG:O	2.09	0.53
13:AM:99:ARG:HB3	13:AM:101:GLN:HE21	1.74	0.53
14:AN:46:GLU:CD	14:AN:46:GLU:H	2.17	0.53
26:B1:74:VAL:O	26:B1:77:ALA:HB3	2.09	0.53
30:B5:2:ALA:HB3	35:BA:747:U:C1'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:476:G:H4'	35:BA:502:A:N1	2.24	0.53
35:BA:889:C:H1'	35:BA:890:A:O4'	2.08	0.53
35:BA:1654:A:OP1	49:BR:3:HIS:HB2	2.08	0.53
35:BA:2632:A:C2	39:BE:61:ARG:HD2	2.44	0.53
35:BA:2712:U:O2'	35:BA:2713:A:H5'	2.09	0.53
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	2.09	0.53
37:BC:51:PRO:HD2	37:BC:55:ASP:HA	1.91	0.53
39:BE:52:LEU:HD12	39:BE:53:PRO:HD2	1.89	0.53
40:BF:201:VAL:HA	40:BF:204:ASN:ND2	2.22	0.53
41:BG:76:SER:OG	41:BG:84:LYS:HG3	2.09	0.53
41:BG:174:GLU:HA	41:BG:178:PHE:HB2	1.91	0.53
42:BH:136:ILE:HD11	42:BH:140:LYS:NZ	2.24	0.53
43:BI:110:ASP:CG	43:BI:130:TYR:OH	2.52	0.53
45:BN:15:LEU:HD13	45:BN:134:ARG:CZ	2.39	0.53
46:BO:105:GLU:OE1	46:BO:105:GLU:N	2.41	0.53
47:BP:17:LYS:C	47:BP:19:VAL:N	2.67	0.53
47:BP:57:THR:C	47:BP:59:LEU:H	2.17	0.53
47:BP:84:ASN:CG	47:BP:117:GLU:HB2	2.34	0.53
48:BQ:134:ARG:HG2	48:BQ:134:ARG:O	2.09	0.53
49:BR:87:TYR:C	49:BR:89:ASP:H	2.13	0.53
51:BT:54:ARG:HG2	51:BT:54:ARG:HH11	1.73	0.53
1:CA:749:C:H2'	1:CA:749:C:O2	2.08	0.53
1:CA:768:A:H5'	1:CA:1524:C:H1'	1.91	0.53
1:CA:926:G:N2	1:CA:1505:G:H2'	2.23	0.53
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.91	0.53
1:CA:1480:G:H2'	1:CA:1481:U:O4'	2.09	0.53
11:CK:38:ASN:N	11:CK:38:ASN:ND2	2.57	0.53
17:CQ:34:LYS:HG2	17:CQ:35:VAL:O	2.09	0.53
30:D5:52:TYR:O	30:D5:56:LYS:NZ	2.42	0.53
33:D8:62:LEU:CD1	35:DA:242:G:H5''	2.27	0.53
34:D9:17:ILE:HD11	34:D9:19:ARG:HB2	1.91	0.53
34:D9:19:ARG:HD3	35:DA:2755:C:H2'	1.91	0.53
34:D9:22:ARG:HB2	34:D9:24:TYR:CE1	2.44	0.53
35:DA:90:U:O4'	35:DA:92:A:C8	2.61	0.53
35:DA:588:U:H1'	40:DF:90:PHE:HB3	1.91	0.53
35:DA:1215:G:O2'	35:DA:1216:G:H5'	2.08	0.53
36:DB:65:C:C2'	36:DB:66:A:H5'	2.40	0.53
42:DH:44:VAL:HG12	42:DH:44:VAL:O	2.08	0.53
45:DN:15:LEU:HD13	45:DN:134:ARG:CZ	2.39	0.53
47:DP:39:LYS:O	47:DP:40:SER:CB	2.56	0.53
48:DQ:45:GLN:CD	48:DQ:45:GLN:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:4:LEU:CD1	49:DR:5:LYS:H	2.22	0.53
55:DX:14:SER:O	55:DX:15:GLU:C	2.51	0.53
56:DY:34:LYS:NZ	56:DY:34:LYS:HB3	2.24	0.53
1:AA:390:C:H4'	16:AP:28:ARG:NH2	2.24	0.52
1:AA:1406:U:H2'	1:AA:1407:C:O4'	2.09	0.52
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	1.91	0.52
6:AF:36:ARG:HH12	6:AF:66:GLU:HB3	1.73	0.52
6:AF:87:ARG:HB2	6:AF:87:ARG:HH11	1.74	0.52
7:AG:49:ILE:HA	7:AG:52:GLU:HG3	1.91	0.52
8:AH:38:ILE:HA	8:AH:41:ARG:HB3	1.92	0.52
10:AJ:13:HIS:CD2	10:AJ:13:HIS:C	2.86	0.52
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.72	0.52
11:AK:16:SER:HA	11:AK:79:SER:O	2.09	0.52
12:AL:24:LEU:C	12:AL:26:GLY:N	2.66	0.52
18:AR:37:VAL:HG12	18:AR:38:GLU:N	2.24	0.52
23:AX:11:U:C2'	23:AX:11:U:O2	2.57	0.52
24:AY:21:LEU:CD1	24:AY:22:GLY:N	2.51	0.52
25:B0:51:VAL:HG21	25:B0:79:VAL:O	2.09	0.52
25:B0:66:VAL:CG1	25:B0:67:VAL:N	2.72	0.52
35:BA:2749:A:H1'	42:BH:63:SER:OG	2.09	0.52
38:BD:125:ILE:CD1	38:BD:137:PRO:CD	2.86	0.52
40:BF:178:PRO:HG2	40:BF:179:GLU:OE2	2.09	0.52
42:BH:122:THR:O	42:BH:133:VAL:HG13	2.09	0.52
48:BQ:1:MET:O	48:BQ:2:LEU:HB3	2.09	0.52
48:BQ:12:GLN:HE21	48:BQ:73:PRO:HD2	1.71	0.52
50:BS:96:GLY:C	50:BS:98:VAL:H	2.17	0.52
50:BS:97:ARG:C	50:BS:97:ARG:NE	2.67	0.52
1:CA:357:G:O2'	1:CA:358:U:H5'	2.09	0.52
1:CA:588:G:C2	1:CA:589:C:C4	2.97	0.52
1:CA:813:U:O2'	1:CA:1511:G:H4'	2.09	0.52
1:CA:986:A:H2'	1:CA:987:G:O4'	2.09	0.52
3:CC:79:ARG:HH11	3:CC:79:ARG:HG3	1.74	0.52
7:CG:49:ILE:HA	7:CG:52:GLU:HG3	1.90	0.52
33:D8:50:LEU:O	33:D8:51:ALA:CB	2.56	0.52
35:DA:605:C:O2'	35:DA:606:U:H5'	2.09	0.52
35:DA:1171:G:N7	35:DA:1173:G:H1'	2.24	0.52
35:DA:1654:A:OP1	49:DR:3:HIS:HB2	2.09	0.52
36:DB:42:C:H4'	41:DG:67:LYS:O	2.09	0.52
38:DD:267:SER:C	38:DD:269:PHE:N	2.67	0.52
41:DG:167:GLU:C	41:DG:169:ALA:N	2.67	0.52
41:DG:172:LEU:O	41:DG:176:LEU:HD12	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:87:LEU:HB2	42:DH:131:VAL:O	2.09	0.52
42:DH:94:TYR:CE1	42:DH:160:LYS:HE3	2.43	0.52
47:DP:35:HIS:C	47:DP:36:LYS:HG3	2.33	0.52
48:DQ:132:VAL:HB	48:DQ:137:TYR:OH	2.10	0.52
52:DU:92:ARG:HD3	52:DU:94:ASN:HB3	1.91	0.52
56:DY:7:VAL:CG2	56:DY:8:LYS:NZ	2.72	0.52
57:DZ:3:TYR:O	57:DZ:58:VAL:N	2.41	0.52
1:AA:161:A:H2'	1:AA:162:A:C8	2.44	0.52
1:AA:192:U:H4'	20:AT:103:GLY:N	2.19	0.52
1:AA:1220:G:H5'	19:AS:34:TRP:O	2.09	0.52
1:AA:1324:A:C4'	1:AA:1362:C:H4'	2.39	0.52
1:AA:1442(B):A:H4'	1:AA:1442(B):A:OP1	2.10	0.52
5:AE:103:GLY:H	5:AE:106:PRO:HG3	1.72	0.52
9:AI:121:ARG:HD3	9:AI:121:ARG:C	2.34	0.52
17:AQ:50:LYS:HG3	17:AQ:51:TYR:H	1.74	0.52
17:AQ:50:LYS:O	17:AQ:51:TYR:C	2.53	0.52
17:AQ:65:ILE:N	17:AQ:65:ILE:CD1	2.69	0.52
35:BA:27:G:N2	35:BA:512:G:H2'	2.24	0.52
35:BA:65:C:H2'	35:BA:66:C:C6	2.42	0.52
35:BA:556:G:H2'	35:BA:557:U:H6	1.73	0.52
35:BA:580:C:H2'	35:BA:581:C:H6	1.74	0.52
35:BA:1593:G:H5'	35:BA:1593:G:H8	1.75	0.52
35:BA:1639:U:H4'	35:BA:2699:C:H4'	1.90	0.52
35:BA:1839:G:H5'	35:BA:1839:G:C8	2.44	0.52
35:BA:2065:C:H2'	35:BA:2066:C:H6	1.74	0.52
35:BA:2464:C:O2'	35:BA:2465:C:P	2.67	0.52
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.41	0.52
38:BD:152:GLY:O	38:BD:154:LYS:HG3	2.09	0.52
40:BF:182:ASN:N	40:BF:182:ASN:HD22	2.07	0.52
41:BG:46:ALA:C	41:BG:47:LYS:HG3	2.35	0.52
41:BG:59:GLU:HG3	41:BG:60:LEU:N	2.25	0.52
43:BI:5:LEU:HD21	43:BI:19:VAL:HG11	1.91	0.52
43:BI:31:LEU:HB2	43:BI:32:PRO:HD3	1.91	0.52
45:BN:128:HIS:O	45:BN:128:HIS:CG	2.61	0.52
46:BO:96:THR:O	46:BO:97:ARG:HG2	2.09	0.52
47:BP:6:LEU:HD23	47:BP:6:LEU:H	1.73	0.52
50:BS:11:LYS:N	50:BS:11:LYS:CE	2.72	0.52
52:BU:92:ARG:HD3	52:BU:94:ASN:HB3	1.91	0.52
55:BX:57:LEU:HD22	55:BX:57:LEU:O	2.09	0.52
57:BZ:109:ALA:O	57:BZ:110:GLY:C	2.50	0.52
1:CA:397:A:N3	1:CA:397:A:C3'	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:790:A:N6	1:CA:1498:U:OP2	2.36	0.52
1:CA:1060:C:C4'	10:CJ:52:GLY:HA2	2.37	0.52
1:CA:1061:G:C2'	1:CA:1062:U:O5'	2.57	0.52
1:CA:1187:G:H4'	9:CI:111:ARG:HH11	1.73	0.52
2:CB:152:PHE:HE2	2:CB:155:LEU:HB3	1.73	0.52
4:CD:126:ILE:N	4:CD:126:ILE:CD1	2.72	0.52
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.39	0.52
6:CF:26:ILE:O	6:CF:29:ALA:HB3	2.09	0.52
8:CH:4:ASP:HB2	8:CH:89:PRO:HG3	1.91	0.52
21:CU:12:LYS:HB2	21:CU:22:ARG:HG3	1.91	0.52
22:CV:55:U:H2'	22:CV:57:A:N7	2.24	0.52
27:D2:7:ARG:O	27:D2:11:GLU:HB2	2.09	0.52
35:DA:146:G:O2'	35:DA:147:U:H5'	2.08	0.52
35:DA:332:A:H4'	35:DA:333:G:OP1	2.09	0.52
35:DA:2134:A:H2	35:DA:2135:A:N7	2.07	0.52
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.44	0.52
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.39	0.52
38:DD:33:LEU:CD2	38:DD:34:VAL:HG13	2.39	0.52
43:DI:82:ARG:HG2	43:DI:89:TYR:CD1	2.44	0.52
46:DO:14:THR:HG22	46:DO:52:VAL:HG13	1.92	0.52
48:DQ:51:ARG:HG2	48:DQ:51:ARG:NH1	2.24	0.52
49:DR:4:LEU:HD12	49:DR:5:LYS:N	2.22	0.52
50:DS:97:ARG:NE	50:DS:97:ARG:C	2.67	0.52
56:DY:27:VAL:HA	56:DY:28:LYS:CE	2.39	0.52
56:DY:31:LEU:CB	56:DY:32:PRO:HA	2.40	0.52
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.08	0.52
1:AA:473:G:H5''	16:AP:81:ARG:NH2	2.23	0.52
1:AA:952:U:O2'	1:AA:953:G:H5'	2.09	0.52
1:AA:1262:C:N4	1:AA:1273:G:H1	2.06	0.52
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.74	0.52
1:AA:1363(A):A:C4'	1:AA:1364:U:H5''	2.29	0.52
5:AE:69:VAL:HG12	5:AE:71:LEU:HG	1.91	0.52
8:AH:4:ASP:HB2	8:AH:89:PRO:CG	2.39	0.52
9:AI:24:GLY:O	9:AI:25:LYS:C	2.51	0.52
9:AI:65:VAL:O	9:AI:65:VAL:HG13	2.10	0.52
13:AM:91:ARG:HE	13:AM:96:LEU:HB2	1.75	0.52
19:AS:13:ASP:C	19:AS:15:LEU:H	2.17	0.52
22:AW:51:C:N4	22:AW:63:G:H22	2.06	0.52
29:B4:15:ILE:H	29:B4:31:ILE:HG22	1.73	0.52
34:B9:16:VAL:HG11	35:BA:1032:A:O3'	2.10	0.52
35:BA:1485:G:H1'	35:BA:1505:C:H41	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1657:C:O2'	35:BA:1658:C:H5'	2.09	0.52
39:BE:13:ARG:HA	39:BE:21:VAL:O	2.09	0.52
41:BG:137:GLU:HG2	41:BG:152:LEU:HD23	1.92	0.52
42:BH:83:TYR:CB	42:BH:135:GLY:N	2.68	0.52
42:BH:87:LEU:HB2	42:BH:131:VAL:O	2.09	0.52
42:BH:158:HIS:O	42:BH:159:GLU:HB2	2.10	0.52
49:BR:4:LEU:O	49:BR:5:LYS:CB	2.56	0.52
50:BS:106:ARG:HD2	50:BS:106:ARG:C	2.34	0.52
51:BT:29:ARG:HG2	51:BT:86:ILE:H	1.74	0.52
52:BU:91:ASP:O	52:BU:92:ARG:O	2.26	0.52
53:BV:4:ILE:HG22	53:BV:4:ILE:O	2.09	0.52
57:BZ:100:VAL:HG23	57:BZ:100:VAL:O	2.09	0.52
1:CA:8:A:H62	4:CD:208:SER:HB2	1.75	0.52
1:CA:17:U:H4'	1:CA:1080:A:O4'	2.10	0.52
1:CA:1061:G:OP1	10:CJ:59:SER:O	2.26	0.52
1:CA:1324:A:C4'	1:CA:1362:C:H4'	2.38	0.52
1:CA:1432:G:OP1	51:DT:107:ASP:HB2	2.09	0.52
4:CD:192:GLU:CD	4:CD:192:GLU:H	2.18	0.52
7:CG:54:THR:HG22	7:CG:56:GLN:H	1.73	0.52
9:CI:65:VAL:O	9:CI:65:VAL:HG13	2.09	0.52
10:CJ:5:ARG:CB	10:CJ:99:LYS:HB2	2.31	0.52
11:CK:22:HIS:HB3	11:CK:29:ILE:HG23	1.91	0.52
13:CM:54:VAL:HA	13:CM:57:ARG:HG2	1.91	0.52
17:CQ:67:LYS:C	17:CQ:69:LYS:H	2.15	0.52
22:CV:34:C:H2'	22:CV:35:A:O4'	2.09	0.52
22:CW:26:G:H3'	22:CW:27:U:H6	1.74	0.52
22:CW:73:A:O2'	26:D1:23:LYS:HE2	2.10	0.52
27:D2:43:GLN:HB3	27:D2:44:LEU:HD12	1.91	0.52
35:DA:691:C:C4'	38:DD:43:ARG:HE	2.22	0.52
35:DA:904:C:H5'	35:DA:904:C:H6	1.74	0.52
35:DA:1793:C:H2'	35:DA:1794:U:C6	2.43	0.52
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.24	0.52
39:DE:5:LEU:HD22	39:DE:197:ILE:HG22	1.91	0.52
39:DE:87:GLU:O	39:DE:89:ASP:N	2.43	0.52
41:DG:80:PHE:C	41:DG:81:LYS:HG2	2.34	0.52
42:DH:148:ILE:HG22	42:DH:162:ILE:HD12	1.91	0.52
43:DI:6:LEU:HA	43:DI:15:VAL:HG23	1.92	0.52
46:DO:102:VAL:HB	46:DO:106:LEU:CD1	2.39	0.52
48:DQ:42:ILE:O	48:DQ:94:VAL:HA	2.10	0.52
51:DT:31:SER:N	51:DT:43:GLN:O	2.42	0.52
51:DT:57:PHE:O	51:DT:58:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DW:111:HIS:CG	54:DW:112:GLY:N	2.77	0.52
56:DY:28:LYS:C	56:DY:38:ILE:HG22	2.35	0.52
56:DY:97:ARG:NH2	56:DY:98:VAL:HB	2.24	0.52
57:DZ:128:VAL:HG21	57:DZ:132:ASN:O	2.10	0.52
1:AA:630:G:H2'	1:AA:631:G:H5''	1.91	0.52
1:AA:640:A:O2'	8:AH:116:LYS:NZ	2.43	0.52
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.91	0.52
1:AA:773:G:O2'	1:AA:774:G:H5'	2.09	0.52
1:AA:1224:G:H4'	13:AM:102:ARG:HE	1.74	0.52
2:AB:187:LEU:HD13	2:AB:205:ASP:HA	1.91	0.52
2:AB:200:ILE:HD12	2:AB:200:ILE:C	2.34	0.52
3:AC:113:ALA:HB1	3:AC:200:ALA:HB3	1.92	0.52
4:AD:14:ARG:N	4:AD:40:PRO:HD3	2.24	0.52
4:AD:190:ASP:O	4:AD:194:LEU:HD23	2.09	0.52
5:AE:107:ARG:O	5:AE:109:ILE:N	2.43	0.52
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.09	0.52
7:AG:138:LYS:O	7:AG:142:GLU:HG3	2.09	0.52
19:AS:41:VAL:HG22	19:AS:42:PRO:HD2	1.90	0.52
20:AT:47:GLY:O	20:AT:48:LYS:C	2.52	0.52
25:B0:77:ARG:NH2	35:BA:857:C:OP1	2.38	0.52
26:B1:26:ARG:HG2	26:B1:27:GLU:HG3	1.90	0.52
35:BA:271(V):G:C2	35:BA:271(W):G:H1'	2.44	0.52
35:BA:612:C:C3'	35:BA:613:G:H5''	2.39	0.52
35:BA:827:U:O2	35:BA:2246:G:H4'	2.09	0.52
35:BA:1693:U:H1'	38:BD:14:ARG:HH12	1.75	0.52
35:BA:2102:U:H2'	35:BA:2103:C:C5	2.45	0.52
35:BA:2117:A:C2	35:BA:2119:A:H5'	2.44	0.52
35:BA:2302:G:H1'	41:BG:128:ARG:NH2	2.25	0.52
37:BC:46:LYS:HE3	37:BC:172:HIS:HA	1.90	0.52
40:BF:115:ALA:O	40:BF:116:ASP:C	2.52	0.52
42:BH:44:VAL:C	42:BH:46:GLU:N	2.67	0.52
47:BP:6:LEU:HD23	47:BP:6:LEU:N	2.24	0.52
50:BS:66:ALA:O	50:BS:68:GLN:N	2.42	0.52
51:BT:50:ILE:HD11	51:BT:99:LEU:O	2.08	0.52
52:BU:88:ILE:O	52:BU:88:ILE:HG13	2.08	0.52
52:BU:112:ARG:HH11	52:BU:112:ARG:CG	2.19	0.52
1:CA:17:U:O4'	1:CA:1080:A:H1'	2.09	0.52
1:CA:145:G:N3	1:CA:146:G:H1'	2.25	0.52
1:CA:738:C:H2'	1:CA:739:C:C6	2.45	0.52
1:CA:1060:C:C4	3:CC:2:GLY:N	2.74	0.52
1:CA:1078:U:C4'	5:CE:84:PHE:HZ	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1134:G:C2'	1:CA:1135:U:H5'	2.39	0.52
1:CA:1344:C:C2'	1:CA:1345:U:H5'	2.39	0.52
1:CA:1349:A:OP2	9:CI:118:LYS:NZ	2.43	0.52
2:CB:24:TRP:H	2:CB:24:TRP:CD1	2.27	0.52
2:CB:174:VAL:O	2:CB:178:ARG:HG2	2.09	0.52
3:CC:52:LEU:H	3:CC:52:LEU:CD2	2.16	0.52
4:CD:192:GLU:N	4:CD:192:GLU:OE2	2.42	0.52
6:CF:66:GLU:O	6:CF:67:MET:HB3	2.09	0.52
8:CH:114:THR:C	8:CH:116:LYS:H	2.15	0.52
9:CI:10:ARG:HD2	9:CI:105:ASP:OD2	2.08	0.52
9:CI:24:GLY:O	9:CI:25:LYS:C	2.52	0.52
13:CM:92:HIS:HB2	13:CM:98:VAL:CG2	2.38	0.52
22:CV:9:G:N2	22:CV:45:G:H3'	2.24	0.52
35:DA:622:G:O2'	35:DA:623:G:H5'	2.09	0.52
35:DA:2467:C:H4'	48:DQ:123:HIS:CG	2.44	0.52
35:DA:2642:G:O2'	35:DA:2643:G:H5'	2.08	0.52
35:DA:2765:A:H2	35:DA:2766:G:O4'	1.92	0.52
38:DD:211:ARG:HH11	38:DD:211:ARG:CG	2.23	0.52
38:DD:245:PRO:O	38:DD:246:PRO:C	2.52	0.52
41:DG:47:LYS:NZ	41:DG:81:LYS:NZ	2.58	0.52
41:DG:170:ARG:NH1	41:DG:170:ARG:HB2	2.25	0.52
42:DH:136:ILE:HD11	42:DH:140:LYS:NZ	2.24	0.52
45:DN:58:ASP:O	45:DN:59:LYS:HB2	2.10	0.52
46:DO:96:THR:O	46:DO:97:ARG:HG2	2.09	0.52
47:DP:57:THR:C	47:DP:59:LEU:H	2.16	0.52
52:DU:28:ARG:HG2	52:DU:38:THR:OG1	2.08	0.52
57:DZ:29:TYR:O	57:DZ:89:PHE:HD2	1.92	0.52
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.90	0.52
1:AA:486:U:H2'	1:AA:487:A:H8	1.74	0.52
1:AA:973:G:H1'	10:AJ:55:LYS:CG	2.39	0.52
3:AC:71:ALA:CB	3:AC:109:PRO:HB3	2.38	0.52
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.91	0.52
4:AD:129:ASN:HD21	4:AD:144:ASP:HA	1.73	0.52
7:AG:18:TYR:HD2	7:AG:59:LEU:HD22	1.74	0.52
9:AI:83:ARG:O	9:AI:87:GLN:HB2	2.09	0.52
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.09	0.52
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.39	0.52
13:AM:92:HIS:HB2	13:AM:98:VAL:CG2	2.38	0.52
18:AR:25:THR:O	18:AR:26:LEU:HD23	2.10	0.52
19:AS:22:LEU:CD1	19:AS:27:GLU:HB2	2.39	0.52
20:AT:12:ALA:O	20:AT:15:ARG:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:74:SER:N	24:AY:75:PHE:CE1	2.77	0.52
26:B1:23:LYS:CD	26:B1:28:GLY:HA3	2.40	0.52
26:B1:26:ARG:C	26:B1:27:GLU:HG3	2.33	0.52
29:B4:21:VAL:HG12	29:B4:21:VAL:O	2.10	0.52
33:B8:55:ALA:C	33:B8:57:ARG:H	2.17	0.52
35:BA:41:C:H2'	35:BA:42:G:O4'	2.09	0.52
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.45	0.52
35:BA:2329:G:H2'	35:BA:2330:G:C8	2.45	0.52
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.58	0.52
37:BC:59:ARG:H	37:BC:59:ARG:CD	2.04	0.52
38:BD:267:SER:C	38:BD:269:PHE:N	2.68	0.52
39:BE:34:VAL:HG22	39:BE:34:VAL:O	2.09	0.52
39:BE:51:PHE:N	39:BE:74:PRO:HG2	2.24	0.52
39:BE:75:VAL:O	39:BE:77:ILE:N	2.39	0.52
39:BE:87:GLU:O	39:BE:89:ASP:N	2.42	0.52
41:BG:78:SER:O	41:BG:79:ASN:C	2.52	0.52
45:BN:55:VAL:HG22	45:BN:126:PRO:CA	2.35	0.52
50:BS:28:VAL:HG12	50:BS:89:ARG:HD2	1.92	0.52
51:BT:58:ASN:C	51:BT:58:ASN:HD22	2.18	0.52
52:BU:11:ARG:HH11	52:BU:11:ARG:HG3	1.73	0.52
53:BV:49:THR:O	53:BV:50:PRO:C	2.52	0.52
54:BW:28:SER:OG	54:BW:31:GLU:HB2	2.09	0.52
1:CA:6:G:N3	1:CA:6:G:C5'	2.69	0.52
1:CA:204:U:H4'	1:CA:216:G:N9	2.24	0.52
1:CA:1060:C:C6	3:CC:2:GLY:CA	2.78	0.52
1:CA:1154:G:O2'	1:CA:1155:G:H5'	2.09	0.52
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.45	0.52
2:CB:57:PHE:HE2	2:CB:185:ILE:HD11	1.74	0.52
4:CD:133:VAL:HG13	4:CD:135:LEU:CD2	2.31	0.52
8:CH:38:ILE:HD12	8:CH:118:VAL:HG12	1.92	0.52
13:CM:7:VAL:O	13:CM:9:ILE:HG13	2.09	0.52
29:D4:44:THR:HG22	29:D4:45:GLY:N	2.25	0.52
33:D8:25:MET:HB2	47:DP:62:LEU:HD21	1.92	0.52
35:DA:1755:A:H2'	35:DA:1756:G:H5'	1.90	0.52
35:DA:2019:A:H4'	52:DU:34:LYS:HD2	1.91	0.52
35:DA:2715:C:O2'	35:DA:2716:U:H5'	2.09	0.52
39:DE:203:LYS:C	39:DE:203:LYS:HD2	2.34	0.52
41:DG:111:LEU:HD22	41:DG:117:PHE:CE2	2.40	0.52
41:DG:111:LEU:O	41:DG:117:PHE:HD2	1.91	0.52
42:DH:12:PRO:HB2	42:DH:15:VAL:HG22	1.89	0.52
42:DH:158:HIS:O	42:DH:159:GLU:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:30:VAL:HG22	51:DT:84:GLN:O	2.09	0.52
57:DZ:132:ASN:O	57:DZ:134:PRO:HD3	2.10	0.52
1:AA:80:G:H3'	1:AA:81:U:H5'	1.91	0.52
1:AA:139:G:H2'	1:AA:140:A:H8	1.74	0.52
1:AA:735:C:O2'	1:AA:736:C:H5'	2.10	0.52
1:AA:1191:A:H5''	3:AC:4:LYS:HZ3	1.74	0.52
1:AA:1220:G:OP1	19:AS:37:ARG:HD2	2.09	0.52
3:AC:79:ARG:HG3	3:AC:79:ARG:HH11	1.73	0.52
5:AE:41:VAL:HG23	5:AE:67:VAL:CG1	2.40	0.52
5:AE:87:SER:HB3	5:AE:131:ILE:HD13	1.90	0.52
7:AG:19:GLY:O	7:AG:20:ASP:HB2	2.08	0.52
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.09	0.52
12:AL:40:VAL:HG23	12:AL:52:VAL:CG2	2.39	0.52
13:AM:7:VAL:O	13:AM:9:ILE:HG13	2.10	0.52
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.57	0.52
19:AS:14:HIS:C	19:AS:15:LEU:HD22	2.34	0.52
22:AV:56:C:H1'	41:BG:76:SER:CB	2.40	0.52
22:AW:23:C:H2'	22:AW:24:U:H6	1.73	0.52
24:AY:64:TYR:CE1	24:AY:92:ILE:HG21	2.44	0.52
35:BA:718:A:H2'	35:BA:719:C:H5'	1.91	0.52
35:BA:1506:C:H2'	35:BA:1506:C:O2	2.09	0.52
35:BA:1793:C:H2'	35:BA:1794:U:H6	1.74	0.52
35:BA:2300:G:H1	35:BA:2316:C:H42	1.56	0.52
35:BA:2785:C:H2'	35:BA:2786:U:H6	1.75	0.52
35:BA:2839:G:C5'	49:BR:46:GLY:HA2	2.39	0.52
35:BA:2881:C:O3'	49:BR:96:ARG:HG3	2.10	0.52
37:BC:77:ILE:O	37:BC:77:ILE:HG23	2.10	0.52
39:BE:33:VAL:HG13	39:BE:69:LYS:CE	2.39	0.52
41:BG:112:PRO:C	41:BG:114:ILE:N	2.61	0.52
43:BI:129:THR:HA	43:BI:137:PRO:HA	1.91	0.52
45:BN:65:LYS:O	45:BN:69:GLN:HB2	2.10	0.52
45:BN:102:ALA:O	45:BN:106:MET:HE3	2.09	0.52
46:BO:86:ILE:O	46:BO:87:ILE:HD13	2.10	0.52
47:BP:111:ARG:HG3	47:BP:111:ARG:NH2	2.24	0.52
48:BQ:32:TYR:CZ	48:BQ:111:GLU:HG3	2.45	0.52
48:BQ:131:ILE:HG22	48:BQ:132:VAL:N	2.25	0.52
49:BR:118:GLU:HA	49:BR:118:GLU:OE1	2.08	0.52
51:BT:3:ARG:C	51:BT:5:ALA:N	2.65	0.52
51:BT:78:LEU:O	51:BT:79:HIS:ND1	2.43	0.52
52:BU:47:TYR:HA	52:BU:50:ARG:NH2	2.24	0.52
57:BZ:28:MET:CB	57:BZ:88:PHE:HB2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:158:PRO:CD	57:BZ:161:VAL:HG21	2.40	0.52
1:CA:358:U:O2'	1:CA:359:U:H5'	2.10	0.52
1:CA:626:U:H5''	16:CP:38:TYR:CG	2.45	0.52
1:CA:1106:G:H4'	3:CC:171:GLY:O	2.10	0.52
1:CA:1123:A:C5'	10:CJ:36:GLY:HA3	2.40	0.52
1:CA:1152:A:H5''	10:CJ:13:HIS:HD1	1.72	0.52
1:CA:1415:G:O2'	1:CA:1416:G:H5'	2.10	0.52
2:CB:208:ILE:O	2:CB:211:ILE:HB	2.10	0.52
3:CC:46:GLU:CD	3:CC:46:GLU:H	2.17	0.52
5:CE:107:ARG:C	5:CE:109:ILE:N	2.68	0.52
6:CF:12:PRO:HG3	6:CF:57:GLN:O	2.10	0.52
7:CG:18:TYR:HD2	7:CG:59:LEU:HD22	1.75	0.52
13:CM:116:THR:CG2	13:CM:117:VAL:N	2.72	0.52
18:CR:37:VAL:HG12	18:CR:38:GLU:N	2.24	0.52
19:CS:63:THR:HG22	19:CS:66:MET:SD	2.49	0.52
22:CW:15:G:H2'	22:CW:59:A:C2	2.45	0.52
35:DA:773:U:H4'	38:DD:47:GLY:CA	2.40	0.52
35:DA:864:G:C2'	35:DA:866:A:N6	2.73	0.52
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.45	0.52
35:DA:1301:A:H4'	35:DA:1302:A:OP1	2.10	0.52
35:DA:2033:A:HO2'	35:DA:2034:U:P	2.32	0.52
35:DA:2839:G:C5'	49:DR:46:GLY:HA2	2.40	0.52
37:DC:82:LYS:HZ2	37:DC:86:ALA:HB1	1.73	0.52
38:DD:31:LYS:HB3	38:DD:34:VAL:CG2	2.35	0.52
38:DD:166:GLN:HE21	38:DD:166:GLN:N	2.08	0.52
40:DF:132:VAL:HG13	40:DF:133:ASN:H	1.74	0.52
41:DG:61:ALA:O	41:DG:65:GLY:N	2.41	0.52
41:DG:111:LEU:O	41:DG:117:PHE:CD2	2.63	0.52
47:DP:29:LYS:HB3	47:DP:34:GLY:N	2.23	0.52
47:DP:140:ALA:O	47:DP:141:ALA:CB	2.58	0.52
48:DQ:1:MET:O	48:DQ:2:LEU:HB3	2.10	0.52
50:DS:12:PHE:C	50:DS:12:PHE:CD1	2.88	0.52
51:DT:3:ARG:C	51:DT:5:ALA:N	2.65	0.52
51:DT:91:ARG:HB3	51:DT:116:ALA:CA	2.30	0.52
51:DT:132:LYS:HD2	51:DT:132:LYS:N	2.24	0.52
52:DU:95:LEU:HD13	53:DV:4:ILE:HG23	1.92	0.52
55:DX:53:LYS:HB3	55:DX:82:GLN:HB3	1.91	0.52
56:DY:84:ARG:HH12	56:DY:97:ARG:CB	2.23	0.52
1:AA:174:C:H2'	1:AA:175:C:C6	2.45	0.52
1:AA:397:A:H5''	1:AA:397:A:N3	2.23	0.52
1:AA:585:G:P	17:AQ:37:LYS:HE2	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:835:U:H3	1:AA:851:G:H1	1.58	0.52
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.09	0.52
2:AB:43:ASP:OD2	2:AB:45:GLN:HB3	2.10	0.52
2:AB:51:LEU:CD2	2:AB:201:ILE:HD13	2.39	0.52
2:AB:87:ARG:HE	2:AB:223:ILE:CD1	2.19	0.52
3:AC:42:LEU:HA	3:AC:45:LYS:HD2	1.92	0.52
3:AC:43:LEU:HD13	3:AC:55:VAL:HG11	1.91	0.52
4:AD:5:ILE:HG22	4:AD:6:GLY:N	2.25	0.52
5:AE:31:LEU:HD11	5:AE:43:LEU:HD11	1.90	0.52
5:AE:57:LYS:O	5:AE:60:TYR:HB3	2.10	0.52
6:AF:66:GLU:O	6:AF:67:MET:HB3	2.08	0.52
10:AJ:48:THR:CA	10:AJ:62:HIS:HB3	2.33	0.52
15:AO:74:ASP:OD2	15:AO:76:GLU:HB3	2.10	0.52
18:AR:47:THR:CG2	18:AR:85:LEU:H	2.22	0.52
24:AY:45:GLY:O	24:AY:48:GLY:HA2	2.10	0.52
35:BA:70:G:H2'	35:BA:113:G:O2'	2.10	0.52
35:BA:773:U:H4'	38:BD:47:GLY:CA	2.40	0.52
35:BA:958:U:H5''	48:BQ:14:ARG:HD3	1.90	0.52
41:BG:170:ARG:NH2	41:BG:180:PHE:HD1	2.07	0.52
41:BG:174:GLU:C	41:BG:176:LEU:H	2.17	0.52
42:BH:95:ARG:HD2	42:BH:95:ARG:C	2.35	0.52
48:BQ:30:GLY:CA	48:BQ:107:ALA:HB2	2.40	0.52
51:BT:85:LYS:HZ3	51:BT:85:LYS:CA	2.20	0.52
53:BV:6:LYS:HB3	53:BV:37:VAL:CG1	2.38	0.52
55:BX:8:ILE:CD1	55:BX:42:ALA:HB1	2.39	0.52
1:CA:294:U:H2'	1:CA:295:C:H6	1.75	0.52
1:CA:473:G:H5''	16:CP:81:ARG:NH2	2.24	0.52
1:CA:474:G:H2'	1:CA:475:G:C8	2.45	0.52
1:CA:680:C:O2'	1:CA:681:C:H5'	2.10	0.52
1:CA:834:C:O2'	1:CA:835:U:H5'	2.10	0.52
1:CA:997:U:H2'	1:CA:998:G:C8	2.45	0.52
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.71	0.52
2:CB:17:PHE:CB	2:CB:44:LEU:HD11	2.40	0.52
2:CB:180:LEU:O	2:CB:181:PHE:HB2	2.09	0.52
3:CC:84:ILE:O	3:CC:88:ARG:HG3	2.10	0.52
3:CC:113:ALA:HB1	3:CC:200:ALA:HB3	1.91	0.52
4:CD:105:VAL:HG12	4:CD:106:TYR:N	2.25	0.52
7:CG:6:ARG:HB2	7:CG:6:ARG:HH11	1.75	0.52
10:CJ:65:LEU:HA	14:CN:55:GLY:O	2.09	0.52
11:CK:16:SER:HA	11:CK:79:SER:O	2.10	0.52
13:CM:90:LEU:C	13:CM:92:HIS:N	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:91:ARG:HE	13:CM:96:LEU:HB2	1.74	0.52
13:CM:99:ARG:HB3	13:CM:101:GLN:HE21	1.74	0.52
13:CM:107:ALA:O	13:CM:109:THR:N	2.41	0.52
22:CV:67:C:H2'	22:CV:67:C:O2	2.09	0.52
25:D0:72:ARG:O	25:D0:74:ARG:N	2.42	0.52
26:D1:7:ILE:HG21	26:D1:69:LYS:HG2	1.91	0.52
30:D5:58:LEU:N	30:D5:58:LEU:HD12	2.24	0.52
33:D8:33:ASN:CA	33:D8:36:LYS:HD2	2.40	0.52
33:D8:36:LYS:O	33:D8:37:SER:C	2.52	0.52
34:D9:22:ARG:HB2	34:D9:24:TYR:HE1	1.75	0.52
35:DA:1038:C:H42	35:DA:1117:G:H1	1.56	0.52
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.45	0.52
35:DA:2339:G:H2'	35:DA:2340:G:H8	1.75	0.52
35:DA:2360:A:O2'	35:DA:2361:A:C5'	2.58	0.52
40:DF:24:LEU:C	40:DF:24:LEU:HD13	2.35	0.52
40:DF:68:LYS:O	40:DF:70:THR:N	2.42	0.52
45:DN:2:LYS:O	45:DN:4:TYR:CZ	2.62	0.52
46:DO:17:ARG:HH11	46:DO:17:ARG:HG2	1.75	0.52
47:DP:107:LYS:C	47:DP:109:GLY:H	2.18	0.52
50:DS:56:LEU:HD22	50:DS:58:LEU:CD1	2.38	0.52
50:DS:71:ARG:HG3	50:DS:71:ARG:HH11	1.74	0.52
53:DV:49:THR:O	53:DV:50:PRO:C	2.53	0.52
57:DZ:40:ASP:HB3	57:DZ:43:GLU:HB2	1.92	0.52
57:DZ:63:ASP:HB2	57:DZ:65:GLN:NE2	2.24	0.52
1:AA:115:G:O2'	1:AA:116:A:OP2	2.25	0.52
1:AA:269:C:H2'	1:AA:270:A:C8	2.45	0.52
1:AA:562:C:N3	12:AL:13:GLU:HB3	2.25	0.52
1:AA:878:G:C5'	8:AH:89:PRO:HB2	2.40	0.52
1:AA:1228:C:H2'	1:AA:1229:A:C8	2.38	0.52
2:AB:101:MET:HG2	2:AB:108:ILE:HG21	1.91	0.52
2:AB:204:ASN:C	2:AB:204:ASN:ND2	2.65	0.52
4:AD:35:ARG:O	4:AD:37:PRO:HD3	2.08	0.52
14:AN:27:CYS:HB3	14:AN:43:CYS:SG	2.50	0.52
17:AQ:5:VAL:HG22	17:AQ:60:ILE:HA	1.91	0.52
21:AU:12:LYS:HB2	21:AU:22:ARG:HG3	1.92	0.52
29:B4:9:LEU:HD12	29:B4:26:SER:HA	1.92	0.52
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.24	0.52
35:BA:171:G:O2'	35:BA:172:C:H5'	2.09	0.52
35:BA:534:U:O2'	52:BU:49:HIS:CD2	2.63	0.52
35:BA:580:C:H2'	35:BA:581:C:C6	2.44	0.52
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1292:U:O2'	35:BA:1293:C:H5'	2.09	0.52
35:BA:2098:U:H2'	35:BA:2099:U:C6	2.45	0.52
35:BA:2737:G:H2'	35:BA:2738:A:C8	2.41	0.52
37:BC:59:ARG:HG2	37:BC:62:VAL:CG2	2.38	0.52
38:BD:34:VAL:O	38:BD:64:ILE:CG2	2.58	0.52
38:BD:35:LYS:C	38:BD:37:LEU:H	2.10	0.52
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.35	0.52
43:BI:33:ARG:HH11	43:BI:33:ARG:HG2	1.75	0.52
43:BI:41:GLU:O	43:BI:45:LYS:HG2	2.10	0.52
43:BI:83:ALA:HB3	43:BI:144:VAL:CG1	2.40	0.52
44:BJ:20:UNK:CB	44:BJ:89:UNK:HA	2.40	0.52
45:BN:26:LEU:O	45:BN:26:LEU:HD12	2.10	0.52
45:BN:33:LEU:HD23	45:BN:38:HIS:CD2	2.45	0.52
48:BQ:63:LYS:HA	57:BZ:178:GLU:OE2	2.09	0.52
51:BT:83:ILE:CG1	51:BT:84:GLN:H	2.00	0.52
52:BU:83:LEU:HD12	52:BU:83:LEU:N	2.24	0.52
55:BX:23:GLU:C	55:BX:25:LYS:H	2.18	0.52
57:BZ:103:ARG:HD2	57:BZ:136:PHE:CG	2.45	0.52
1:CA:80:G:H3'	1:CA:81:U:H5'	1.91	0.52
1:CA:720:C:H5'	18:CR:50:ILE:O	2.09	0.52
1:CA:754:C:H3'	1:CA:754:C:O2	2.10	0.52
1:CA:878:G:H5''	8:CH:89:PRO:HB2	1.91	0.52
1:CA:1028:C:H41	1:CA:1034:G:H21	1.58	0.52
1:CA:1371:G:OP1	9:CI:11:LYS:HG2	2.10	0.52
1:CA:1373:G:H5''	7:CG:36:LYS:CG	2.40	0.52
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.45	0.52
3:CC:181:ASN:HD21	3:CC:204:LEU:HD12	1.75	0.52
4:CD:11:LEU:HD23	4:CD:11:LEU:N	2.25	0.52
5:CE:144:THR:H	5:CE:147:ASP:HB2	1.74	0.52
6:CF:36:ARG:HH11	6:CF:36:ARG:CB	2.16	0.52
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.10	0.52
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.18	0.52
16:CP:28:ARG:C	16:CP:30:GLY:H	2.17	0.52
19:CS:67:VAL:HG23	19:CS:68:GLY:N	2.25	0.52
22:CV:36:U:C6	22:CV:37:A:H5''	2.45	0.52
30:D5:2:ALA:HB3	35:DA:747:U:C1'	2.40	0.52
34:D9:17:ILE:HD13	34:D9:17:ILE:C	2.35	0.52
34:D9:18:ARG:NE	34:D9:23:VAL:HG22	2.24	0.52
35:DA:7:G:H2'	35:DA:8:A:C8	2.45	0.52
35:DA:171:G:O2'	35:DA:172:C:H5'	2.10	0.52
35:DA:256:A:O2'	35:DA:257:A:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:826:U:OP1	35:DA:2428:G:H3'	2.09	0.52
35:DA:882:G:H2'	35:DA:883:G:H8	1.75	0.52
35:DA:1688:U:O2	35:DA:1700:A:H8	1.91	0.52
35:DA:1817:G:OP1	38:DD:88:ARG:NH2	2.35	0.52
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.58	0.52
35:DA:2724:C:OP1	39:DE:118:LYS:HE3	2.08	0.52
36:DB:65:C:O2'	36:DB:66:A:H5'	2.09	0.52
38:DD:125:ILE:HD11	38:DD:136:ILE:HA	1.92	0.52
38:DD:131:LEU:HD12	38:DD:135:PHE:HB2	1.90	0.52
42:DH:72:ILE:O	42:DH:75:ALA:HB3	2.10	0.52
47:DP:16:ARG:O	47:DP:16:ARG:NH1	2.41	0.52
50:DS:71:ARG:HG2	50:DS:103:GLU:OE2	2.08	0.52
51:DT:82:LEU:H	51:DT:82:LEU:CD1	2.22	0.52
52:DU:24:TYR:HB2	52:DU:29:SER:HB3	1.92	0.52
56:DY:88:LYS:HZ1	56:DY:93:GLY:CA	2.20	0.52
1:AA:327:A:O2'	1:AA:328:C:O4'	2.27	0.52
1:AA:591:U:H2'	1:AA:592:G:C8	2.42	0.52
1:AA:619:U:C2	4:AD:135:LEU:HD21	2.45	0.52
1:AA:658:G:O4'	15:AO:22:THR:HB	2.10	0.52
1:AA:680:C:O2'	1:AA:681:C:H5'	2.10	0.52
2:AB:80:ILE:HG22	2:AB:80:ILE:O	2.10	0.52
3:AC:121:ALA:HA	3:AC:189:ALA:HB2	1.92	0.52
4:AD:10:ARG:HG3	4:AD:40:PRO:HG2	1.92	0.52
4:AD:192:GLU:CD	4:AD:192:GLU:H	2.17	0.52
6:AF:45:LEU:HD23	6:AF:45:LEU:C	2.35	0.52
8:AH:38:ILE:HD12	8:AH:118:VAL:HG12	1.91	0.52
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.35	0.52
12:AL:80:VAL:HG22	12:AL:81:LEU:N	2.25	0.52
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.58	0.52
20:AT:74:LYS:C	20:AT:76:ALA:H	2.17	0.52
24:AY:2:PHE:C	24:AY:2:PHE:HD2	2.17	0.52
27:B2:35:LEU:HB3	27:B2:50:ILE:HD11	1.91	0.52
35:BA:18:C:H2'	35:BA:19:C:H6	1.74	0.52
35:BA:310:A:OP1	56:BY:17:SER:O	2.28	0.52
35:BA:1486:A:H2'	35:BA:1487:G:H8	1.75	0.52
36:BB:35:U:C2'	36:BB:36:C:H5'	2.40	0.52
38:BD:131:LEU:HD12	38:BD:135:PHE:HB2	1.90	0.52
40:BF:53:THR:C	40:BF:55:GLY:H	2.17	0.52
48:BQ:55:VAL:O	48:BQ:56:ARG:C	2.53	0.52
50:BS:12:PHE:C	50:BS:12:PHE:CD1	2.88	0.52
51:BT:132:LYS:HD2	51:BT:132:LYS:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:53:LYS:HB3	55:BX:82:GLN:HB3	1.92	0.52
56:BY:27:VAL:HG12	56:BY:29:GLU:H	1.75	0.52
56:BY:28:LYS:O	56:BY:29:GLU:O	2.27	0.52
57:BZ:137:ILE:HG22	57:BZ:137:ILE:O	2.09	0.52
1:CA:178:C:C3'	1:CA:179:A:H5''	2.39	0.52
1:CA:191:G:O2'	1:CA:192:U:H5'	2.10	0.52
1:CA:977:A:C2'	1:CA:978:A:H5'	2.39	0.52
1:CA:1012:U:C3'	1:CA:1013:G:H5''	2.34	0.52
1:CA:1054:C:C2'	1:CA:1054:C:O2	2.58	0.52
1:CA:1225:A:N1	1:CA:1226:C:C4	2.77	0.52
3:CC:71:ALA:CB	3:CC:109:PRO:HB3	2.40	0.52
5:CE:57:LYS:O	5:CE:60:TYR:HB3	2.10	0.52
6:CF:11:ASN:C	6:CF:13:ASN:H	2.18	0.52
7:CG:19:GLY:O	7:CG:20:ASP:HB2	2.10	0.52
8:CH:44:PHE:O	8:CH:64:LYS:HB3	2.09	0.52
9:CI:17:VAL:HG21	9:CI:81:ILE:N	2.25	0.52
17:CQ:92:ARG:HG2	17:CQ:92:ARG:O	2.09	0.52
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.34	0.52
28:D3:4:LEU:HD12	28:D3:4:LEU:H	1.73	0.52
35:DA:18:C:H2'	35:DA:19:C:H6	1.74	0.52
35:DA:588:U:H2'	35:DA:589:C:C6	2.45	0.52
35:DA:967:C:O2'	35:DA:968:G:H5'	2.09	0.52
35:DA:1563:G:C5	35:DA:1564:C:C5	2.98	0.52
35:DA:2098:U:H2'	35:DA:2099:U:C6	2.45	0.52
35:DA:2310:A:O2'	35:DA:2311:A:H5''	2.09	0.52
35:DA:2533:A:C5'	35:DA:2665:A:H1'	2.40	0.52
35:DA:2567:G:H2'	35:DA:2568:C:C6	2.45	0.52
35:DA:2648:C:H2'	35:DA:2649:U:C6	2.45	0.52
35:DA:2821:A:OP2	49:DR:5:LYS:NZ	2.42	0.52
38:DD:133:LEU:C	38:DD:135:PHE:H	2.18	0.52
39:DE:64:LYS:C	39:DE:66:HIS:H	2.16	0.52
43:DI:66:GLU:C	43:DI:68:LEU:H	2.17	0.52
46:DO:64:ARG:HG2	46:DO:79:PHE:CG	2.45	0.52
47:DP:16:ARG:NH1	47:DP:18:ARG:HG2	2.25	0.52
47:DP:96:THR:HG22	47:DP:126:VAL:HG21	1.92	0.52
48:DQ:30:GLY:CA	48:DQ:107:ALA:HB2	2.40	0.52
51:DT:20:PRO:O	51:DT:22:PHE:HD2	1.92	0.52
51:DT:31:SER:OG	51:DT:43:GLN:N	2.43	0.52
54:DW:64:MET:C	54:DW:65:LEU:HD23	2.34	0.52
54:DW:82:LEU:HB2	54:DW:98:LYS:HB2	1.92	0.52
55:DX:90:GLU:O	55:DX:93:GLU:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:30:ASN:HA	57:DZ:89:PHE:CE2	2.42	0.52
57:DZ:81:ARG:HG3	57:DZ:82:ARG:H	1.75	0.52
1:AA:316:G:OP2	1:AA:351:G:O2'	2.27	0.52
1:AA:322:C:H5	1:AA:328:C:H5	1.58	0.52
1:AA:864:A:H5'	5:AE:86:ALA:HB2	1.91	0.52
1:AA:1037:C:H2'	1:AA:1038:C:C5	2.45	0.52
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.10	0.52
1:AA:1402:C:N4	23:AX:18:G:OP2	2.31	0.52
2:AB:127:ILE:HD11	2:AB:139:LYS:NZ	2.24	0.52
6:AF:24:GLU:OE2	6:AF:28:ARG:HD2	2.10	0.52
8:AH:103:VAL:HG21	8:AH:109:ILE:O	2.09	0.52
17:AQ:92:ARG:O	17:AQ:92:ARG:HG2	2.09	0.52
19:AS:49:ILE:HD11	19:AS:71:LEU:HD22	1.92	0.52
24:AY:55:ASP:N	24:AY:60:GLU:O	2.37	0.52
29:B4:18:CYS:SG	29:B4:36:CYS:HB3	2.49	0.52
35:BA:438:G:O2'	35:BA:440:G:H5'	2.10	0.52
35:BA:611:C:H2'	35:BA:612:C:H6	1.75	0.52
35:BA:691:C:H4'	38:BD:43:ARG:HE	1.76	0.52
35:BA:1270:C:H5''	35:BA:1271:G:O5'	2.11	0.52
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.45	0.52
35:BA:1533:G:H3'	35:BA:1543:C:P	2.45	0.52
35:BA:1854:A:H62	35:BA:1888:G:H8	1.58	0.52
35:BA:1973:G:H2'	35:BA:1974:C:C6	2.45	0.52
35:BA:2022:U:O2'	35:BA:2617:C:H5'	2.09	0.52
39:BE:64:LYS:C	39:BE:66:HIS:H	2.15	0.52
40:BF:117:ARG:HG2	40:BF:192:LEU:HB2	1.92	0.52
41:BG:15:VAL:HG11	41:BG:175:LEU:O	2.09	0.52
45:BN:68:GLU:O	45:BN:69:GLN:HG3	2.09	0.52
46:BO:102:VAL:HB	46:BO:106:LEU:CD1	2.40	0.52
49:BR:12:ARG:HG3	49:BR:12:ARG:NH1	2.25	0.52
50:BS:71:ARG:HG2	50:BS:103:GLU:OE2	2.10	0.52
50:BS:98:VAL:HG12	50:BS:100:ALA:HB2	1.92	0.52
51:BT:13:ARG:HA	51:BT:13:ARG:HH11	1.65	0.52
51:BT:82:LEU:N	51:BT:82:LEU:CD1	2.72	0.52
52:BU:92:ARG:O	52:BU:92:ARG:CG	2.57	0.52
54:BW:1:MET:CG	54:BW:64:MET:HE3	2.39	0.52
54:BW:75:TYR:CE2	54:BW:104:THR:HB	2.45	0.52
57:BZ:103:ARG:HH11	57:BZ:103:ARG:HG3	1.74	0.52
1:CA:97:G:HO2'	1:CA:98:G:H8	1.57	0.52
1:CA:542:G:H2'	1:CA:543:C:H6	1.75	0.52
1:CA:547:A:H4'	1:CA:548:G:O5'	2.11	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1428:A:C2	1:CA:1429:C:N3	2.78	0.52
2:CB:46:LYS:HA	2:CB:49:GLU:OE1	2.09	0.52
2:CB:175:ARG:O	2:CB:176:GLU:C	2.52	0.52
4:CD:134:ASP:C	4:CD:135:LEU:HD13	2.35	0.52
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	1.91	0.52
6:CF:24:GLU:OE2	6:CF:28:ARG:HD2	2.10	0.52
8:CH:23:SER:HA	8:CH:63:LEU:CD2	2.39	0.52
9:CI:11:LYS:C	9:CI:13:ALA:H	2.17	0.52
9:CI:15:ALA:HB2	9:CI:65:VAL:HB	1.92	0.52
9:CI:50:LEU:HD21	9:CI:81:ILE:HG21	1.91	0.52
11:CK:78:GLN:NE2	11:CK:78:GLN:N	2.57	0.52
13:CM:11:ARG:HA	13:CM:45:VAL:HB	1.92	0.52
20:CT:74:LYS:C	20:CT:76:ALA:H	2.16	0.52
29:D4:55:ARG:HD3	29:D4:55:ARG:C	2.35	0.52
30:D5:41:PRO:HG2	30:D5:44:THR:OG1	2.09	0.52
35:DA:30:G:H2'	35:DA:31:C:H6	1.74	0.52
35:DA:154(A):C:H5''	35:DA:154(A):C:O2	2.10	0.52
35:DA:556:G:H2'	35:DA:557:U:H6	1.74	0.52
35:DA:887:A:C2	35:DA:889:C:H2'	2.38	0.52
41:DG:100:TRP:C	41:DG:102:PHE:N	2.66	0.52
42:DH:122:THR:O	42:DH:133:VAL:HG13	2.09	0.52
45:DN:25:ARG:HH11	45:DN:25:ARG:CG	2.17	0.52
50:DS:11:LYS:N	50:DS:11:LYS:CE	2.72	0.52
50:DS:96:GLY:C	50:DS:98:VAL:H	2.17	0.52
52:DU:103:PRO:HD2	52:DU:104:GLN:NE2	2.24	0.52
56:DY:7:VAL:HG21	56:DY:8:LYS:NZ	2.25	0.52
56:DY:77:PRO:O	56:DY:78:ALA:HB2	2.10	0.52
57:DZ:51:ALA:CB	57:DZ:57:ILE:HD11	2.40	0.52
57:DZ:150:LEU:HD23	57:DZ:150:LEU:N	2.25	0.52
1:AA:829:G:O2'	1:AA:830:G:H5'	2.10	0.51
1:AA:973:G:N3	10:AJ:55:LYS:HE2	2.25	0.51
1:AA:1124:G:H22	1:AA:1280:A:N6	2.08	0.51
5:AE:144:THR:H	5:AE:147:ASP:HB2	1.75	0.51
7:AG:6:ARG:HH11	7:AG:6:ARG:CB	2.23	0.51
9:AI:4:TYR:CD2	9:AI:88:TYR:HB3	2.45	0.51
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.91	0.51
12:AL:30:ARG:O	12:AL:82:ILE:HG22	2.09	0.51
13:AM:14:ARG:H	13:AM:44:ARG:HH11	1.58	0.51
16:AP:17:TYR:N	16:AP:17:TYR:CD1	2.78	0.51
23:AX:19:U:O2'	23:AX:20:U:O5'	2.27	0.51
24:AY:64:TYR:CE1	24:AY:92:ILE:HG23	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:58:LEU:N	30:B5:58:LEU:HD12	2.25	0.51
33:B8:33:ASN:OD1	33:B8:33:ASN:N	2.43	0.51
35:BA:105:C:H2'	35:BA:106:C:H6	1.75	0.51
35:BA:845:G:HO2'	35:BA:846:C:H5	1.56	0.51
35:BA:1190:G:H5'	47:BP:35:HIS:N	2.26	0.51
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.45	0.51
35:BA:1973:G:H2'	35:BA:1974:C:H6	1.75	0.51
36:BB:57:A:C4	41:BG:29:TRP:HB3	2.45	0.51
37:BC:82:LYS:HZ2	37:BC:94:VAL:HG11	1.75	0.51
38:BD:25:THR:HG22	38:BD:26:LYS:CD	2.37	0.51
38:BD:131:LEU:HD12	38:BD:135:PHE:CB	2.40	0.51
38:BD:205:VAL:HG12	38:BD:205:VAL:O	2.10	0.51
39:BE:64:LYS:C	39:BE:66:HIS:N	2.67	0.51
40:BF:182:ASN:HD22	40:BF:182:ASN:H	1.57	0.51
42:BH:29:PRO:HD2	42:BH:79:VAL:O	2.10	0.51
45:BN:58:ASP:O	45:BN:60:ILE:N	2.41	0.51
46:BO:24:VAL:HG21	46:BO:32:TYR:O	2.10	0.51
46:BO:87:ILE:CG2	46:BO:91:LEU:HA	2.38	0.51
46:BO:88:ASN:OD1	46:BO:92:GLU:N	2.38	0.51
50:BS:51:ALA:HB3	50:BS:73:LEU:HG	1.92	0.51
51:BT:98:LYS:HB3	51:BT:100:TYR:CE1	2.44	0.51
53:BV:82:ARG:HG2	53:BV:82:ARG:NH1	2.25	0.51
57:BZ:149:SER:HB2	57:BZ:173:ALA:CB	2.40	0.51
1:CA:62:U:H5''	1:CA:385:C:O2	2.09	0.51
1:CA:637:G:O2'	1:CA:638:G:H5'	2.10	0.51
1:CA:837:G:O2'	1:CA:838:G:H5'	2.10	0.51
1:CA:866:C:C4'	1:CA:919:A:H5''	2.40	0.51
1:CA:1079:G:H4'	5:CE:129:ILE:HG21	1.91	0.51
1:CA:1255:G:H2'	1:CA:1255:G:N3	2.25	0.51
1:CA:1305:G:H21	1:CA:1306:A:N6	2.07	0.51
4:CD:119:GLN:O	4:CD:123:HIS:HD2	1.92	0.51
4:CD:133:VAL:CG1	4:CD:135:LEU:HD22	2.30	0.51
8:CH:34:GLU:CB	8:CH:118:VAL:HG21	2.40	0.51
9:CI:15:ALA:CB	9:CI:65:VAL:HB	2.40	0.51
14:CN:26:ARG:HG3	14:CN:39:LEU:CD2	2.40	0.51
17:CQ:65:ILE:N	17:CQ:65:ILE:CD1	2.74	0.51
22:CW:59:A:C2'	22:CW:60:U:H5'	2.40	0.51
25:D0:23:VAL:HG12	25:D0:25:ARG:O	2.10	0.51
31:D6:45:LYS:HB3	31:D6:45:LYS:NZ	2.26	0.51
32:D7:47:ARG:HB2	32:D7:48:LYS:HZ1	1.73	0.51
35:DA:146:G:C2'	35:DA:147:U:H5'	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:237:C:O2'	35:DA:238:C:H5'	2.09	0.51
35:DA:1187:G:H5''	53:DV:81:TYR:HE2	1.71	0.51
35:DA:1912:A:N1	35:DA:1919:A:N7	2.58	0.51
35:DA:2855:C:H2'	35:DA:2856:C:C6	2.45	0.51
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.24	0.51
40:DF:182:ASN:HD22	40:DF:182:ASN:H	1.58	0.51
41:DG:29:TRP:HA	41:DG:29:TRP:HE3	1.75	0.51
41:DG:105:LYS:HE3	41:DG:142:PRO:HG2	1.92	0.51
47:DP:140:ALA:O	47:DP:141:ALA:HB2	2.10	0.51
51:DT:85:LYS:C	51:DT:85:LYS:NZ	2.69	0.51
54:DW:45:TYR:CZ	54:DW:49:LYS:HE3	2.45	0.51
55:DX:65:ARG:HG2	55:DX:65:ARG:NH1	2.25	0.51
56:DY:81:LYS:NZ	56:DY:97:ARG:HH21	2.08	0.51
1:AA:123:C:OP1	1:AA:312:C:H5'	2.10	0.51
1:AA:252:U:H2'	1:AA:275:G:N2	2.25	0.51
1:AA:501:C:H2'	1:AA:502:G:C8	2.41	0.51
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.75	0.51
3:AC:173:VAL:HG11	3:AC:201:TYR:HB3	1.92	0.51
10:AJ:5:ARG:CB	10:AJ:99:LYS:HB2	2.32	0.51
24:AY:49:ARG:HH11	24:AY:49:ARG:HG3	1.75	0.51
24:AY:74:SER:OG	24:AY:84:LYS:HG3	2.08	0.51
30:B5:52:TYR:HD1	30:B5:53:ALA:N	2.09	0.51
33:B8:4:MET:HE2	35:BA:593:G:O4'	2.10	0.51
34:B9:13:LYS:HG3	34:B9:28:GLU:OE2	2.11	0.51
35:BA:856:C:C5	35:BA:857:C:H5	2.27	0.51
35:BA:908:C:O2'	35:BA:909:A:H5'	2.10	0.51
35:BA:925:C:H2'	35:BA:926:A:H5'	1.91	0.51
35:BA:2134:A:H2	35:BA:2135:A:N7	2.07	0.51
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.24	0.51
35:BA:2467:C:H4'	48:BQ:123:HIS:CG	2.45	0.51
35:BA:2681:C:H5	35:BA:2725:A:N6	1.92	0.51
35:BA:2724:C:P	49:BR:2:ARG:CZ	2.98	0.51
38:BD:174:ILE:HG12	38:BD:184:LYS:HG2	1.91	0.51
39:BE:116:VAL:HG13	39:BE:122:PHE:HB2	1.92	0.51
39:BE:128:SER:OG	39:BE:129:HIS:N	2.38	0.51
41:BG:82:LEU:CD2	41:BG:87:PRO:HB3	2.40	0.51
41:BG:100:TRP:O	41:BG:102:PHE:N	2.43	0.51
42:BH:72:ILE:O	42:BH:75:ALA:HB3	2.10	0.51
43:BI:93:THR:HG23	43:BI:94:ALA:N	2.24	0.51
45:BN:46:VAL:HG22	45:BN:46:VAL:O	2.10	0.51
45:BN:58:ASP:O	45:BN:59:LYS:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:13:ARG:HH11	53:BV:13:ARG:HG2	1.75	0.51
57:BZ:2:GLU:O	57:BZ:3:TYR:HB2	2.09	0.51
1:CA:13:U:C4	1:CA:21:G:N2	2.79	0.51
1:CA:599:C:H2'	1:CA:600:C:C6	2.45	0.51
1:CA:866:C:H4'	1:CA:919:A:H5''	1.91	0.51
1:CA:1442(B):A:N7	51:DT:118:ARG:NE	2.57	0.51
4:CD:131:ARG:HH11	4:CD:131:ARG:HG3	1.75	0.51
5:CE:41:VAL:HG23	5:CE:67:VAL:CG1	2.40	0.51
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD12	1.91	0.51
17:CQ:9:VAL:HG21	17:CQ:84:LEU:HD13	1.92	0.51
18:CR:47:THR:CG2	18:CR:85:LEU:H	2.20	0.51
19:CS:13:ASP:C	19:CS:15:LEU:H	2.18	0.51
31:D6:33:LYS:HE2	31:D6:33:LYS:CA	2.38	0.51
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.40	0.51
35:DA:203:C:H3'	35:DA:204:A:H5''	1.92	0.51
35:DA:877:U:O2'	35:DA:878:A:H5''	2.11	0.51
35:DA:1347:G:H5'	35:DA:1347:G:C8	2.42	0.51
35:DA:1639:U:H4'	35:DA:2699:C:H4'	1.92	0.51
35:DA:2027:G:H2'	35:DA:2028:U:O4'	2.09	0.51
35:DA:2360:A:O2'	35:DA:2361:A:O4'	2.25	0.51
35:DA:2580:U:H4'	39:DE:130:GLY:HA2	1.93	0.51
35:DA:2710:C:H2'	35:DA:2711:A:C8	2.45	0.51
35:DA:2724:C:P	49:DR:2:ARG:CZ	2.99	0.51
35:DA:2785:C:H2'	35:DA:2786:U:C6	2.45	0.51
36:DB:35:U:C2'	36:DB:36:C:H5'	2.41	0.51
38:DD:182:LEU:H	38:DD:272:ALA:CB	2.22	0.51
40:DF:165:ARG:CB	40:DF:165:ARG:NH1	2.73	0.51
41:DG:43:LEU:HB3	41:DG:88:ILE:CG2	2.39	0.51
49:DR:33:ARG:HG3	49:DR:115:GLU:HG2	1.90	0.51
49:DR:45:ARG:HD3	49:DR:97:VAL:CG1	2.40	0.51
50:DS:25:ARG:HH11	50:DS:25:ARG:CB	2.22	0.51
57:DZ:141:VAL:O	57:DZ:141:VAL:HG12	2.10	0.51
1:AA:498:U:H2'	1:AA:498:U:O2	2.10	0.51
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.91	0.51
1:AA:1321:C:H6	1:AA:1322:C:H2'	1.76	0.51
1:AA:1493:A3P:P1	24:AY:55:ASP:OD2	2.69	0.51
3:AC:142:MET:HA	3:AC:146:ALA:CB	2.40	0.51
6:AF:100:ASN:ND2	18:AR:23:LYS:HZ1	2.09	0.51
7:AG:54:THR:C	7:AG:56:GLN:H	2.18	0.51
8:AH:92:ARG:HB3	8:AH:94:TYR:HE2	1.76	0.51
13:AM:116:THR:CG2	13:AM:117:VAL:N	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:48:TRP:O	16:AP:49:LEU:C	2.54	0.51
17:AQ:12:SER:HB3	17:AQ:20:THR:CB	2.38	0.51
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.52	0.51
19:AS:42:PRO:O	19:AS:43:GLU:CB	2.58	0.51
19:AS:67:VAL:HG23	19:AS:68:GLY:N	2.25	0.51
35:BA:154(A):C:H2'	35:BA:157:U:H5'	1.92	0.51
35:BA:716:A:H3'	35:BA:717:G:H5''	1.92	0.51
35:BA:720:C:H2'	35:BA:721:C:H6	1.76	0.51
35:BA:807:U:O2'	35:BA:808:G:H5'	2.10	0.51
35:BA:1033:U:OP2	35:BA:1033:U:H4'	2.10	0.51
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.41	0.51
39:BE:203:LYS:HD2	39:BE:203:LYS:C	2.36	0.51
41:BG:32:PRO:HB2	41:BG:172:LEU:CD2	2.39	0.51
41:BG:82:LEU:HD23	41:BG:87:PRO:HB3	1.92	0.51
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.93	0.51
43:BI:83:ALA:N	43:BI:89:TYR:HD1	2.09	0.51
49:BR:63:ARG:O	49:BR:67:LEU:HB2	2.09	0.51
55:BX:43:VAL:CG2	55:BX:51:VAL:HG21	2.41	0.51
56:BY:34:LYS:NZ	56:BY:34:LYS:HB3	2.24	0.51
1:CA:562:C:N3	12:CL:13:GLU:HB3	2.25	0.51
1:CA:563:A:N7	1:CA:567:G:H1'	2.25	0.51
1:CA:630:G:H2'	1:CA:631:G:H5''	1.92	0.51
1:CA:1123:A:C4'	10:CJ:36:GLY:HA3	2.41	0.51
1:CA:1304:G:H3'	1:CA:1305:G:C8	2.46	0.51
1:CA:1321:C:H6	1:CA:1322:C:H2'	1.75	0.51
3:CC:94:LEU:HD23	3:CC:94:LEU:N	2.09	0.51
6:CF:3:ARG:HB3	6:CF:93:SER:HB2	1.91	0.51
7:CG:54:THR:C	7:CG:56:GLN:H	2.19	0.51
8:CH:92:ARG:HB3	8:CH:94:TYR:HE2	1.75	0.51
9:CI:8:GLY:O	9:CI:76:ALA:HB1	2.10	0.51
11:CK:104:GLN:O	11:CK:106:LYS:N	2.44	0.51
12:CL:117:TYR:O	12:CL:119:THR:N	2.43	0.51
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.93	0.51
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	2.10	0.51
26:D1:23:LYS:HD2	26:D1:28:GLY:N	2.25	0.51
28:D3:54:VAL:HG12	28:D3:55:ARG:N	2.25	0.51
33:D8:61:LEU:CG	33:D8:62:LEU:H	2.23	0.51
35:DA:908:C:O2'	35:DA:909:A:H5'	2.10	0.51
35:DA:1862:G:H2'	35:DA:1863:G:H8	1.75	0.51
35:DA:2277:G:H2'	35:DA:2278:A:H5'	1.91	0.51
38:DD:215:LEU:CD1	38:DD:217:ARG:HH21	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:34:TRP:CD1	47:DP:11:GLY:HA2	2.45	0.51
40:DF:161:GLU:O	40:DF:165:ARG:HG3	2.10	0.51
43:DI:52:ARG:HH11	43:DI:53:ALA:HA	1.75	0.51
45:DN:62:VAL:O	45:DN:62:VAL:HG13	2.10	0.51
45:DN:102:ALA:O	45:DN:106:MET:HE3	2.09	0.51
47:DP:125:VAL:O	47:DP:144:GLU:HB2	2.10	0.51
50:DS:66:ALA:O	50:DS:68:GLN:N	2.43	0.51
51:DT:58:ASN:HD22	51:DT:58:ASN:C	2.19	0.51
52:DU:92:ARG:O	52:DU:92:ARG:CG	2.58	0.51
53:DV:28:GLU:HB3	53:DV:29:PRO:HD2	1.92	0.51
57:DZ:72:ARG:CG	57:DZ:89:PHE:HB2	2.39	0.51
1:AA:39:G:O2'	1:AA:40:C:H5'	2.11	0.51
1:AA:754:C:H3'	1:AA:754:C:O2	2.10	0.51
1:AA:1060:C:C6	3:AC:2:GLY:CA	2.90	0.51
1:AA:1533:C:H3'	1:AA:1533:C:O2	2.10	0.51
2:AB:193:ASP:HB2	2:AB:194:PRO:HD2	1.92	0.51
3:AC:8:ILE:HD12	3:AC:16:ARG:NH1	2.25	0.51
3:AC:182:ILE:HG23	3:AC:202:ILE:C	2.34	0.51
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.41	0.51
7:AG:132:GLY:H	7:AG:135:VAL:HB	1.75	0.51
8:AH:30:ARG:NH1	8:AH:30:ARG:CB	2.74	0.51
9:AI:11:LYS:C	9:AI:13:ALA:H	2.18	0.51
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.74	0.51
12:AL:33:VAL:H	12:AL:55:VAL:HG13	1.75	0.51
16:AP:80:PHE:O	16:AP:81:ARG:C	2.54	0.51
17:AQ:9:VAL:HG21	17:AQ:84:LEU:HD13	1.92	0.51
25:B0:66:VAL:HG12	25:B0:67:VAL:H	1.74	0.51
26:B1:41:ARG:HH11	26:B1:43:TYR:HE2	1.56	0.51
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.91	0.51
35:BA:136:G:H2'	35:BA:137:C:H6	1.76	0.51
35:BA:289:A:H2'	35:BA:290:G:O4'	2.11	0.51
35:BA:1252:G:N3	52:BU:33:ARG:HD2	2.25	0.51
35:BA:1316:U:H2'	35:BA:1317:A:H8	1.75	0.51
35:BA:1579:A:H2'	35:BA:1580:A:O4'	2.11	0.51
35:BA:2155:G:C2'	35:BA:2156:G:H5'	2.39	0.51
35:BA:2223:G:O2'	35:BA:2224:G:H5'	2.10	0.51
39:BE:55:ASN:HD21	39:BE:75:VAL:N	2.07	0.51
41:BG:38:VAL:HG13	41:BG:158:ALA:HB3	1.92	0.51
41:BG:71:THR:N	41:BG:89:GLY:O	2.44	0.51
48:BQ:42:ILE:O	48:BQ:94:VAL:HA	2.10	0.51
53:BV:99:ILE:O	53:BV:101:GLY:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:116:A:H61	1:CA:313:A:H1'	1.76	0.51
1:CA:119:A:O2'	1:CA:120:A:OP2	2.27	0.51
1:CA:377:G:O2'	1:CA:378:G:H5'	2.10	0.51
1:CA:632:A:C3'	1:CA:633:G:H5''	2.39	0.51
1:CA:735:C:O2'	1:CA:736:C:H5'	2.10	0.51
1:CA:782:A:O3'	1:CA:1515:C:H4'	2.11	0.51
1:CA:953:G:H2'	1:CA:954:G:O4'	2.09	0.51
1:CA:1251:A:H4'	9:CI:12:GLU:OE2	2.10	0.51
1:CA:1506:U:HO2'	1:CA:1507:A:H5'	1.73	0.51
2:CB:8:LYS:HD3	2:CB:217:ARG:HH21	1.76	0.51
4:CD:5:ILE:HG22	4:CD:6:GLY:N	2.25	0.51
5:CE:79:GLU:HB3	5:CE:92:LYS:HA	1.93	0.51
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	2.11	0.51
16:CP:17:TYR:CD1	16:CP:17:TYR:N	2.78	0.51
16:CP:34:GLU:OE2	16:CP:55:ARG:HD3	2.10	0.51
26:D1:50:ARG:NH1	26:D1:57:GLU:OE2	2.44	0.51
29:D4:15:ILE:H	29:D4:31:ILE:HG22	1.74	0.51
33:D8:25:MET:HB2	47:DP:62:LEU:HD23	1.91	0.51
35:DA:105:C:H2'	35:DA:106:C:C6	2.46	0.51
35:DA:832:G:H21	47:DP:53:GLY:CA	2.24	0.51
35:DA:1550:C:H2'	35:DA:1551:C:C6	2.45	0.51
35:DA:1697:G:H3'	35:DA:1698:A:H5''	1.89	0.51
35:DA:1826:G:H4'	38:DD:242:ARG:HH21	1.75	0.51
35:DA:2627:G:O2'	35:DA:2781:A:N1	2.41	0.51
35:DA:2735:G:H2'	35:DA:2736:G:C8	2.43	0.51
37:DC:122:ALA:HB2	37:DC:142:ALA:HA	1.92	0.51
40:DF:39:TRP:O	40:DF:43:LYS:HB3	2.10	0.51
41:DG:82:LEU:HD22	41:DG:87:PRO:CB	2.37	0.51
42:DH:44:VAL:C	42:DH:46:GLU:N	2.67	0.51
43:DI:33:ARG:HG2	43:DI:33:ARG:HH11	1.75	0.51
46:DO:34:THR:OG1	46:DO:35:VAL:N	2.43	0.51
47:DP:48:PRO:C	47:DP:50:ARG:N	2.68	0.51
47:DP:57:THR:CG2	47:DP:59:LEU:HB3	2.41	0.51
53:DV:12:TYR:N	53:DV:12:TYR:CD1	2.78	0.51
57:DZ:61:LEU:C	57:DZ:63:ASP:H	2.17	0.51
1:AA:413:G:H1'	1:AA:428:G:H21	1.74	0.51
1:AA:1203:C:H2'	1:AA:1204:A:O4'	2.10	0.51
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.24	0.51
1:AA:1305:G:H21	1:AA:1306:A:N6	2.08	0.51
1:AA:1463:C:O2'	1:AA:1464:G:H5'	2.09	0.51
2:AB:39:ILE:HG22	2:AB:40:HIS:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:57:PHE:HE2	2:AB:185:ILE:HD11	1.76	0.51
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.09	0.51
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.91	0.51
5:AE:36:ASP:OD1	5:AE:38:GLN:N	2.36	0.51
7:AG:145:ALA:O	7:AG:146:GLU:HB2	2.10	0.51
9:AI:121:ARG:HH11	9:AI:121:ARG:HG2	1.76	0.51
10:AJ:51:ARG:H	10:AJ:60:ARG:CB	2.23	0.51
16:AP:34:GLU:OE2	16:AP:55:ARG:HD3	2.10	0.51
20:AT:62:LEU:HA	20:AT:65:LYS:HB2	1.92	0.51
22:AV:54:U:C5'	22:AV:54:U:H6	2.18	0.51
24:AY:28:ILE:HG22	24:AY:42:ARG:CD	2.41	0.51
24:AY:55:ASP:CB	24:AY:60:GLU:O	2.59	0.51
25:B0:72:ARG:HH11	25:B0:75:LEU:CD1	2.23	0.51
26:B1:91:LYS:HA	26:B1:94:LEU:HD12	1.92	0.51
27:B2:41:ILE:HD11	27:B2:43:GLN:HB2	1.91	0.51
31:B6:23:THR:HG21	35:BA:2419:U:H4'	1.93	0.51
33:B8:25:MET:HB2	47:BP:62:LEU:HD23	1.92	0.51
35:BA:332:A:H4'	35:BA:333:G:OP1	2.10	0.51
35:BA:360:G:H2'	35:BA:361:G:C8	2.45	0.51
35:BA:419:C:H2'	35:BA:420:C:C6	2.45	0.51
35:BA:521:G:H2'	35:BA:522:G:H8	1.75	0.51
35:BA:882:G:H2'	35:BA:883:G:H8	1.75	0.51
35:BA:1188:U:C5'	53:BV:79:VAL:HG22	2.41	0.51
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.92	0.51
35:BA:2579:C:H1'	39:BE:134:ILE:HD13	1.93	0.51
35:BA:2682:U:H5'	35:BA:2682:U:H6	1.75	0.51
38:BD:30:GLU:CD	38:BD:63:ARG:HE	2.18	0.51
39:BE:14:ILE:C	39:BE:14:ILE:HD12	2.35	0.51
41:BG:164:GLU:CD	41:BG:164:GLU:H	2.18	0.51
42:BH:15:VAL:CA	42:BH:27:LYS:O	2.59	0.51
43:BI:99:GLU:CD	43:BI:100:ALA:H	2.19	0.51
47:BP:10:PRO:CD	47:BP:11:GLY:N	2.71	0.51
49:BR:55:ALA:CB	49:BR:79:LEU:HD13	2.38	0.51
53:BV:2:PHE:CB	53:BV:42:GLY:N	2.72	0.51
55:BX:37:THR:O	55:BX:40:LYS:HB3	2.10	0.51
56:BY:47:LYS:H	56:BY:47:LYS:HD2	1.75	0.51
57:BZ:94:GLU:C	57:BZ:96:VAL:H	2.19	0.51
1:CA:37:U:H2'	1:CA:38:G:O4'	2.11	0.51
1:CA:1413:A:C6	1:CA:1488:G:N2	2.79	0.51
1:CA:1465:C:O2'	1:CA:1466:C:H5'	2.11	0.51
2:CB:204:ASN:C	2:CB:204:ASN:ND2	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.74	0.51
6:CF:97:PHE:HB3	18:CR:32:ARG:HG3	1.93	0.51
7:CG:69:VAL:HG12	7:CG:69:VAL:O	2.10	0.51
10:CJ:61:GLU:HB2	14:CN:58:LYS:HE2	1.93	0.51
24:CY:6:GLY:C	24:CY:7:HIS:ND1	2.69	0.51
34:D9:13:LYS:HG3	34:D9:28:GLU:OE2	2.11	0.51
35:DA:419:C:H2'	35:DA:420:C:C6	2.45	0.51
35:DA:1223:G:H5'	35:DA:1224:C:OP2	2.09	0.51
35:DA:1270:C:H5''	35:DA:1271:G:O5'	2.10	0.51
35:DA:1902:C:H4'	38:DD:244:ARG:HA	1.92	0.51
37:DC:77:ILE:O	37:DC:77:ILE:HG23	2.10	0.51
38:DD:30:GLU:CD	38:DD:63:ARG:HE	2.19	0.51
38:DD:209:ALA:C	38:DD:210:GLY:O	2.51	0.51
40:DF:196:LEU:C	40:DF:198:ALA:N	2.63	0.51
41:DG:41:GLN:HB2	41:DG:43:LEU:HD13	1.92	0.51
41:DG:91:ARG:HH11	41:DG:91:ARG:CG	2.23	0.51
45:DN:15:LEU:HD23	45:DN:15:LEU:C	2.36	0.51
46:DO:24:VAL:CG2	46:DO:33:ALA:HB2	2.40	0.51
47:DP:47:ASP:HB3	47:DP:48:PRO:C	2.36	0.51
48:DQ:12:GLN:HE21	48:DQ:73:PRO:HD2	1.72	0.51
48:DQ:35:VAL:HG23	48:DQ:101:ARG:O	2.10	0.51
48:DQ:118:LEU:HD12	48:DQ:131:ILE:HG23	1.92	0.51
55:DX:41:ASN:O	55:DX:45:THR:HG23	2.11	0.51
57:DZ:81:ARG:HG3	57:DZ:82:ARG:N	2.25	0.51
57:DZ:156:LYS:O	57:DZ:158:PRO:HD3	2.10	0.51
1:AA:33:A:H2'	1:AA:34:C:H5''	1.91	0.51
1:AA:556:C:O2'	1:AA:557:G:H5'	2.11	0.51
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.26	0.51
1:AA:1188:A:O3'	14:AN:58:LYS:HE3	2.09	0.51
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.45	0.51
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.93	0.51
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.34	0.51
6:AF:45:LEU:HD23	6:AF:45:LEU:O	2.10	0.51
9:AI:10:ARG:CZ	9:AI:11:LYS:HB2	2.40	0.51
10:AJ:50:ILE:HA	10:AJ:60:ARG:CD	2.38	0.51
17:AQ:34:LYS:HG2	17:AQ:35:VAL:O	2.10	0.51
24:AY:23:ASP:O	24:AY:24:LEU:C	2.52	0.51
25:B0:56:ASP:OD2	35:BA:2364:C:H4'	2.10	0.51
35:BA:71:A:H3'	35:BA:71:A:OP2	2.10	0.51
35:BA:877:U:O2'	35:BA:878:A:H5''	2.10	0.51
35:BA:1111:A:O2'	35:BA:1112:G:H4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.75	0.51
35:BA:2027:G:H2'	35:BA:2028:U:O4'	2.10	0.51
35:BA:2639:A:H2'	35:BA:2640:G:H5'	1.93	0.51
35:BA:2735:G:H2'	35:BA:2736:G:C8	2.42	0.51
35:BA:2791:C:H5''	35:BA:2893:G:C2	2.46	0.51
38:BD:71:ASP:CG	38:BD:103:ARG:HH22	2.18	0.51
40:BF:65:TRP:CH2	40:BF:75:HIS:CD2	2.98	0.51
40:BF:164:ARG:HH11	40:BF:164:ARG:HG2	1.76	0.51
41:BG:46:ALA:CB	41:BG:53:LEU:HG	2.41	0.51
41:BG:96:ARG:HD2	41:BG:96:ARG:N	2.25	0.51
41:BG:159:VAL:O	41:BG:159:VAL:HG23	2.10	0.51
45:BN:3:THR:C	45:BN:4:TYR:CD1	2.89	0.51
45:BN:133:GLN:CG	45:BN:135:PRO:HD3	2.33	0.51
50:BS:13:ARG:O	50:BS:14:VAL:HB	2.11	0.51
50:BS:17:ARG:CA	50:BS:20:ARG:HH22	2.24	0.51
52:BU:92:ARG:HD2	53:BV:11:GLN:HB2	1.92	0.51
55:BX:12:VAL:HG21	55:BX:27:THR:HG23	1.92	0.51
56:BY:76:CYS:HB3	56:BY:96:ILE:CD1	2.41	0.51
56:BY:84:ARG:NH1	56:BY:97:ARG:HA	2.26	0.51
57:BZ:70:LEU:HD11	57:BZ:98:MET:SD	2.50	0.51
1:CA:100:C:H2'	1:CA:101:A:O4'	2.11	0.51
1:CA:502:G:OP1	12:CL:114:ARG:N	2.44	0.51
1:CA:644:G:H2'	1:CA:645:C:H5'	1.76	0.51
1:CA:819:A:N7	1:CA:1529:G:C2	2.78	0.51
1:CA:1305:G:H21	1:CA:1306:A:H62	1.58	0.51
1:CA:1399:C:H4'	1:CA:1400:C:O5'	2.10	0.51
1:CA:1487:G:H3'	1:CA:1488:G:H8	1.75	0.51
2:CB:71:VAL:HG12	2:CB:93:VAL:CB	2.39	0.51
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.35	0.51
3:CC:142:MET:HA	3:CC:146:ALA:CB	2.40	0.51
5:CE:15:ARG:O	5:CE:15:ARG:HG2	2.11	0.51
5:CE:31:LEU:HD11	5:CE:43:LEU:HD11	1.91	0.51
8:CH:63:LEU:H	8:CH:63:LEU:CD2	2.22	0.51
9:CI:8:GLY:O	9:CI:14:VAL:HA	2.11	0.51
9:CI:56:LEU:HD23	9:CI:57:GLY:N	2.26	0.51
14:CN:4:LYS:HZ3	14:CN:4:LYS:HB2	1.75	0.51
15:CO:70:LEU:HD21	15:CO:77:ARG:HB2	1.92	0.51
15:CO:74:ASP:OD2	15:CO:76:GLU:HB3	2.11	0.51
18:CR:67:ALA:HA	18:CR:70:ILE:HD12	1.93	0.51
19:CS:22:LEU:CD1	19:CS:27:GLU:HB2	2.41	0.51
34:D9:31:LYS:HD2	35:DA:2478:A:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:271(R):G:O2'	35:DA:271(S):G:H5'	2.10	0.51
35:DA:570:G:H2'	35:DA:2030:A:C5	2.45	0.51
35:DA:1281:G:C2'	35:DA:1282:U:H5'	2.41	0.51
35:DA:1579:A:H2'	35:DA:1580:A:O4'	2.11	0.51
35:DA:1839:G:H8	35:DA:1839:G:H5'	1.75	0.51
35:DA:1915:U:C4	35:DA:1916:A:C5	2.99	0.51
35:DA:2227:A:H8	35:DA:2227:A:O5'	1.94	0.51
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.45	0.51
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	2.10	0.51
35:DA:2821:A:P	49:DR:5:LYS:HE3	2.51	0.51
36:DB:42:C:O2	41:DG:92:VAL:HA	2.10	0.51
41:DG:103:LEU:O	41:DG:107:LEU:HG	2.11	0.51
41:DG:181:ARG:O	41:DG:182:LYS:C	2.53	0.51
42:DH:85:LYS:HD3	42:DH:133:VAL:CB	2.20	0.51
43:DI:6:LEU:HD12	43:DI:34:GLY:O	2.11	0.51
46:DO:71:ARG:HH12	51:DT:74:ARG:HH22	1.58	0.51
49:DR:63:ARG:O	49:DR:67:LEU:HB2	2.10	0.51
51:DT:91:ARG:CB	51:DT:116:ALA:HA	2.31	0.51
56:DY:26:LYS:O	56:DY:27:VAL:O	2.27	0.51
1:AA:100:C:H2'	1:AA:101:A:O4'	2.10	0.51
1:AA:204:U:H4'	1:AA:216:G:N9	2.25	0.51
1:AA:663:A:H5''	18:AR:61:LYS:HE3	1.92	0.51
1:AA:738:C:H2'	1:AA:739:C:C6	2.46	0.51
1:AA:936:C:O2'	1:AA:937:A:H5'	2.10	0.51
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.92	0.51
1:AA:1249:C:H5'	1:AA:1249:C:H6	1.76	0.51
3:AC:115:LEU:O	3:AC:119:ARG:N	2.44	0.51
4:AD:192:GLU:N	4:AD:192:GLU:OE2	2.41	0.51
5:AE:13:ILE:O	5:AE:14:ARG:HB3	2.11	0.51
5:AE:15:ARG:O	5:AE:15:ARG:HG2	2.11	0.51
7:AG:51:GLN:O	7:AG:52:GLU:C	2.52	0.51
8:AH:4:ASP:HB2	8:AH:89:PRO:HG3	1.92	0.51
9:AI:8:GLY:O	9:AI:76:ALA:HB1	2.09	0.51
13:AM:80:ARG:HD3	29:B4:48:ARG:HH11	1.75	0.51
24:AY:28:ILE:HG22	24:AY:42:ARG:NE	2.25	0.51
33:B8:59:LYS:NZ	33:B8:59:LYS:CB	2.63	0.51
35:BA:962:G:C2'	35:BA:963:U:H5'	2.41	0.51
35:BA:1232:G:H2'	35:BA:1233:C:H6	1.75	0.51
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.49	0.51
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.10	0.51
42:BH:7:LEU:O	42:BH:69:ARG:CD	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:2:LYS:CB	43:BI:39:ALA:HB3	2.41	0.51
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.36	0.51
44:BJ:52:UNK:CB	44:BJ:87:UNK:HA	2.40	0.51
46:BO:71:ARG:HH12	51:BT:74:ARG:HH22	1.57	0.51
47:BP:131:SER:OG	47:BP:134:ALA:HB2	2.10	0.51
49:BR:7:GLY:C	49:BR:8:ARG:HE	2.18	0.51
49:BR:63:ARG:HA	49:BR:80:PHE:CZ	2.45	0.51
1:CA:588:G:O6	1:CA:753:A:H2'	2.11	0.51
1:CA:707:C:H2'	1:CA:708:C:C6	2.45	0.51
1:CA:940:C:C2'	1:CA:941:G:H5'	2.36	0.51
1:CA:1003:G:H1'	1:CA:1038:C:O2	2.11	0.51
2:CB:111:ARG:NH2	2:CB:114:ARG:HG2	2.25	0.51
3:CC:43:LEU:HD13	3:CC:55:VAL:HG11	1.91	0.51
3:CC:182:ILE:HG23	3:CC:202:ILE:C	2.35	0.51
7:CG:146:GLU:O	7:CG:149:ARG:HB2	2.11	0.51
9:CI:121:ARG:HH11	9:CI:121:ARG:HG2	1.76	0.51
14:CN:29:ARG:HB3	14:CN:33:VAL:CG1	2.41	0.51
16:CP:82:GLN:O	16:CP:83:GLU:HB2	2.11	0.51
18:CR:86:VAL:HG12	18:CR:87:ARG:H	1.76	0.51
19:CS:49:ILE:HD11	19:CS:71:LEU:HD22	1.92	0.51
22:CW:35:A:H2'	22:CW:36:U:C5	2.46	0.51
25:D0:51:VAL:HG21	25:D0:79:VAL:O	2.10	0.51
26:D1:62:VAL:CG2	26:D1:63:ALA:N	2.73	0.51
35:DA:319:C:O2'	35:DA:320:A:H5'	2.11	0.51
35:DA:676:A:N1	35:DA:802:A:N1	2.58	0.51
35:DA:1316:U:H2'	35:DA:1317:A:H8	1.75	0.51
35:DA:2275:C:H5'	35:DA:2275:C:H6	1.76	0.51
35:DA:2306:C:C5	35:DA:2307:G:H1'	2.45	0.51
35:DA:2474:C:H5'	35:DA:2475:C:C4	2.45	0.51
35:DA:2479:G:OP1	35:DA:2537:U:H1'	2.10	0.51
35:DA:2685:G:C5'	46:DO:68:GLU:OE2	2.56	0.51
36:DB:83:G:O2'	36:DB:84:C:H5'	2.11	0.51
36:DB:105:A:H2'	36:DB:106:G:O4'	2.11	0.51
38:DD:24:ILE:O	38:DD:25:THR:C	2.53	0.51
39:DE:51:PHE:CD1	39:DE:51:PHE:C	2.88	0.51
39:DE:55:ASN:HD21	39:DE:75:VAL:N	2.08	0.51
40:DF:9:ILE:HG22	40:DF:11:VAL:C	2.35	0.51
41:DG:13:GLU:O	41:DG:13:GLU:HG3	2.09	0.51
41:DG:100:TRP:HA	41:DG:103:LEU:HB2	1.93	0.51
42:DH:7:LEU:O	42:DH:69:ARG:CD	2.59	0.51
50:DS:97:ARG:HG2	50:DS:97:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:17:SER:CB	56:DY:71:LYS:HE2	2.40	0.51
57:DZ:112:ARG:HA	57:DZ:112:ARG:NH2	2.25	0.51
1:AA:1053:G:H3'	1:AA:1054:C:H5'	1.91	0.51
2:AB:193:ASP:OD2	2:AB:196:LEU:HD23	2.11	0.51
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.10	0.51
4:AD:30:LYS:HG2	4:AD:35:ARG:NH2	2.25	0.51
6:AF:36:ARG:HH11	6:AF:36:ARG:CB	2.16	0.51
9:AI:15:ALA:CB	9:AI:65:VAL:HB	2.41	0.51
13:AM:107:ALA:O	13:AM:109:THR:N	2.43	0.51
23:AX:16:A:O2'	23:AX:17:U:O4'	2.26	0.51
27:B2:45:SER:O	27:B2:46:GLN:CD	2.54	0.51
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.26	0.51
31:B6:43:CYS:C	31:B6:45:LYS:H	2.18	0.51
32:B7:47:ARG:HB2	32:B7:48:LYS:HZ3	1.76	0.51
35:BA:843:G:O2'	35:BA:844:C:H5'	2.10	0.51
35:BA:874:G:O2'	35:BA:875:G:H5'	2.10	0.51
35:BA:1038:C:H42	35:BA:1117:G:H1	1.59	0.51
35:BA:1297:C:H2'	35:BA:1298:C:C6	2.46	0.51
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.76	0.51
35:BA:1896:G:H2'	35:BA:1897:G:H8	1.75	0.51
36:BB:28:C:H2'	36:BB:29:A:H8	1.74	0.51
38:BD:127:VAL:HA	38:BD:193:VAL:O	2.11	0.51
38:BD:209:ALA:C	38:BD:210:GLY:O	2.51	0.51
39:BE:90:THR:HG22	39:BE:91:VAL:N	2.25	0.51
39:BE:170:LEU:HB3	39:BE:184:VAL:HG12	1.92	0.51
40:BF:24:LEU:CB	40:BF:25:PRO:CD	2.88	0.51
40:BF:136:THR:HG22	40:BF:140:LEU:CD2	2.41	0.51
42:BH:12:PRO:HB3	42:BH:76:VAL:HG11	1.92	0.51
45:BN:62:VAL:CG2	45:BN:66:LYS:HD2	2.40	0.51
45:BN:78:TYR:CD1	45:BN:78:TYR:N	2.59	0.51
47:BP:16:ARG:NH1	47:BP:18:ARG:HG2	2.25	0.51
51:BT:128:GLU:O	51:BT:129:ARG:C	2.53	0.51
56:BY:75:ILE:HG22	56:BY:80:GLY:N	2.25	0.51
57:BZ:59:LEU:HD12	57:BZ:69:THR:HG21	1.92	0.51
1:CA:194:C:C2'	1:CA:195:A:H5''	2.39	0.51
1:CA:1069:C:H41	1:CA:1094:G:H22	1.59	0.51
1:CA:1525:G:OP1	11:CK:120:ARG:NH2	2.44	0.51
2:CB:200:ILE:HD12	2:CB:200:ILE:C	2.35	0.51
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.92	0.51
3:CC:173:VAL:HG11	3:CC:201:TYR:HB3	1.93	0.51
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:75:VAL:HG21	7:CG:144:MET:HB3	1.93	0.51
7:CG:80:VAL:HG21	7:CG:85:TYR:CD1	2.46	0.51
9:CI:4:TYR:CD2	9:CI:88:TYR:HB3	2.45	0.51
11:CK:28:THR:O	11:CK:44:SER:HB2	2.10	0.51
11:CK:105:VAL:HB	11:CK:108:ILE:HD11	1.91	0.51
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.38	0.51
17:CQ:7:THR:HG22	17:CQ:58:GLU:HA	1.93	0.51
20:CT:47:GLY:O	20:CT:48:LYS:C	2.53	0.51
21:CU:10:ARG:HA	21:CU:13:ILE:HB	1.92	0.51
26:D1:23:LYS:CD	26:D1:28:GLY:HA3	2.37	0.51
29:D4:30:GLU:C	29:D4:31:ILE:HD12	2.35	0.51
31:D6:22:ALA:HB2	31:D6:39:TYR:CE2	2.46	0.51
31:D6:43:CYS:C	31:D6:45:LYS:H	2.18	0.51
33:D8:59:LYS:CB	33:D8:59:LYS:NZ	2.66	0.51
35:DA:245:G:H5'	47:DP:69:GLY:HA3	1.93	0.51
35:DA:280:C:N4	35:DA:360:G:H1	2.09	0.51
35:DA:1396:U:O2	35:DA:1396:U:H2'	2.10	0.51
35:DA:2632:A:C2	39:DE:61:ARG:HD2	2.46	0.51
38:DD:106:ILE:O	38:DD:106:ILE:HG12	2.10	0.51
38:DD:125:ILE:CD1	38:DD:137:PRO:CD	2.84	0.51
41:DG:10:LYS:O	41:DG:15:VAL:HG23	2.11	0.51
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.93	0.51
43:DI:109:ILE:HG12	43:DI:110:ASP:N	2.25	0.51
46:DO:107:ARG:HG3	46:DO:112:MET:SD	2.50	0.51
47:DP:40:SER:HB3	47:DP:41:ARG:NH2	2.24	0.51
47:DP:64:LYS:C	47:DP:64:LYS:HD3	2.36	0.51
51:DT:78:LEU:O	51:DT:78:LEU:HG	2.09	0.51
54:DW:75:TYR:CE2	54:DW:104:THR:HB	2.46	0.51
1:AA:591:U:O2'	1:AA:592:G:H5'	2.11	0.51
1:AA:687:A:H1'	1:AA:688:G:OP2	2.10	0.51
1:AA:1030:C:H41	1:AA:1032:G:N2	2.09	0.51
1:AA:1150:U:H2'	1:AA:1151:A:C8	2.46	0.51
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	2.26	0.51
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.88	0.51
2:AB:19:HIS:HD2	2:AB:204:ASN:HA	1.70	0.51
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.46	0.51
3:AC:46:GLU:CD	3:AC:46:GLU:H	2.19	0.51
4:AD:134:ASP:C	4:AD:135:LEU:HD13	2.36	0.51
7:AG:77:SER:OG	22:AW:32:C:H5''	2.10	0.51
8:AH:11:THR:CG2	8:AH:14:ARG:HH12	2.21	0.51
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.92	0.51
13:AM:69:GLU:HG2	13:AM:72:ALA:HB3	1.93	0.51
14:AN:37:PHE:CE1	14:AN:53:LEU:HD22	2.46	0.51
22:AW:49:G:H2'	22:AW:50:U:O4'	2.11	0.51
24:AY:45:GLY:O	24:AY:48:GLY:CA	2.59	0.51
27:B2:33:MET:HE3	27:B2:37:PHE:CE1	2.45	0.51
29:B4:54:GLY:C	29:B4:56:VAL:H	2.19	0.51
35:BA:1047:G:C8	35:BA:1110:G:C6	2.98	0.51
35:BA:1793:C:H2'	35:BA:1794:U:C6	2.46	0.51
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.46	0.51
35:BA:2262:U:O2'	35:BA:2263:C:H5'	2.11	0.51
41:BG:20:ILE:O	41:BG:24:GLY:HA2	2.11	0.51
41:BG:164:GLU:OE2	41:BG:165:THR:HG23	2.11	0.51
42:BH:106:THR:HG22	42:BH:112:PRO:CB	2.41	0.51
47:BP:18:ARG:NH1	47:BP:18:ARG:CB	2.64	0.51
48:BQ:30:GLY:HA2	48:BQ:107:ALA:HB2	1.93	0.51
49:BR:7:GLY:C	49:BR:8:ARG:NE	2.69	0.51
52:BU:48:ALA:O	52:BU:52:ARG:HG3	2.09	0.51
53:BV:28:GLU:O	53:BV:61:VAL:HG21	2.11	0.51
53:BV:40:LEU:HA	53:BV:45:THR:HB	1.93	0.51
54:BW:14:PRO:O	54:BW:15:ARG:C	2.54	0.51
54:BW:31:GLU:O	54:BW:35:ILE:HG12	2.10	0.51
56:BY:95:LYS:HZ3	56:BY:99:CYS:N	2.09	0.51
1:CA:18:C:P	5:CE:127:ASN:HD21	2.33	0.51
1:CA:430:A:OP2	4:CD:8:VAL:HG22	2.10	0.51
1:CA:486:U:H2'	1:CA:487:A:H8	1.75	0.51
1:CA:557:G:H2'	1:CA:558:G:C8	2.45	0.51
1:CA:790:A:N1	1:CA:1497:G:H5'	2.25	0.51
1:CA:1438:G:C2	1:CA:1439:C:C5	2.99	0.51
5:CE:71:LEU:H	5:CE:71:LEU:HD12	1.76	0.51
8:CH:35:ILE:O	8:CH:39:LEU:HD23	2.11	0.51
8:CH:93:VAL:O	8:CH:132:GLU:HA	2.10	0.51
10:CJ:50:ILE:HA	10:CJ:60:ARG:CD	2.38	0.51
12:CL:24:LEU:C	12:CL:26:GLY:H	2.17	0.51
19:CS:31:ILE:HG23	19:CS:49:ILE:HA	1.93	0.51
22:CW:69:C:H2'	22:CW:70:G:H8	1.76	0.51
25:D0:23:VAL:HB	25:D0:26:TYR:HE2	1.76	0.51
27:D2:4:SER:C	27:D2:6:VAL:H	2.18	0.51
35:DA:542:C:H2'	35:DA:543:C:OP1	2.11	0.51
35:DA:894:C:O2'	35:DA:895:U:H5'	2.11	0.51
35:DA:1590:U:H2'	35:DA:1591:G:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2329:G:H2'	35:DA:2330:G:C8	2.45	0.51
35:DA:2340:G:O2'	35:DA:2341:G:H5'	2.11	0.51
35:DA:2553:G:H3'	35:DA:2554:U:H5''	1.92	0.51
38:DD:31:LYS:O	38:DD:33:LEU:N	2.43	0.51
38:DD:77:ALA:HB2	38:DD:97:TYR:CD2	2.46	0.51
39:DE:117:MET:O	39:DE:121:ASN:N	2.41	0.51
41:DG:60:LEU:HD23	41:DG:60:LEU:C	2.35	0.51
41:DG:174:GLU:C	41:DG:176:LEU:H	2.19	0.51
42:DH:85:LYS:O	42:DH:132:ARG:HA	2.11	0.51
50:DS:13:ARG:CG	50:DS:14:VAL:N	2.71	0.51
52:DU:60:LEU:HD22	52:DU:60:LEU:O	2.11	0.51
52:DU:74:LEU:HD22	52:DU:79:PHE:HB2	1.92	0.51
57:DZ:158:PRO:CD	57:DZ:161:VAL:HG21	2.40	0.51
1:AA:60:A:P	1:AA:60:A:H8	2.34	0.51
1:AA:679:C:O2'	1:AA:680:C:H5'	2.11	0.51
1:AA:936:C:H2'	1:AA:937:A:C8	2.45	0.51
1:AA:1141:C:H2'	1:AA:1142:G:H8	1.70	0.51
1:AA:1275:A:H2'	1:AA:1276:G:O4'	2.10	0.51
1:AA:1326:C:O2'	1:AA:1327:C:H5'	2.11	0.51
1:AA:1442(A):G:C8	51:BT:118:ARG:HD2	2.46	0.51
2:AB:29:ALA:O	2:AB:32:ILE:HG22	2.11	0.51
4:AD:188:LEU:HD12	4:AD:188:LEU:N	2.26	0.51
7:AG:14:PRO:HG3	7:AG:21:VAL:HG13	1.93	0.51
23:AX:19:U:O2'	23:AX:20:U:O4'	2.29	0.51
24:AY:49:ARG:C	24:AY:66:ALA:CB	2.64	0.51
27:B2:41:ILE:HG13	27:B2:43:GLN:HB2	1.92	0.51
33:B8:56:GLU:HA	33:B8:59:LYS:HZ1	1.76	0.51
35:BA:145:G:O2'	35:BA:146:G:H5''	2.11	0.51
35:BA:298:G:P	56:BY:85:VAL:HG22	2.51	0.51
35:BA:836:G:C5	35:BA:837:C:C4	3.00	0.51
35:BA:2758:A:C4	42:BH:67:LEU:HD21	2.46	0.51
38:BD:176:ARG:HD3	38:BD:182:LEU:HD21	1.93	0.51
44:BJ:94:UNK:C	44:BJ:96:UNK:N	2.74	0.51
47:BP:23:PRO:C	47:BP:33:ARG:NH1	2.70	0.51
50:BS:15:ARG:CB	50:BS:15:ARG:NH1	2.60	0.51
50:BS:90:GLY:C	50:BS:92:TYR:H	2.20	0.51
55:BX:90:GLU:O	55:BX:93:GLU:HG2	2.11	0.51
1:CA:4:U:H5'	4:CD:86:LYS:CD	2.40	0.51
1:CA:113:G:H2'	1:CA:114:U:H6	1.76	0.51
1:CA:565:U:C6	1:CA:566:G:C8	2.99	0.51
1:CA:718:G:H5'	11:CK:117:ASN:CB	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1188:A:O3'	14:CN:58:LYS:HE3	2.11	0.51
1:CA:1326:C:O2'	1:CA:1327:C:H5'	2.10	0.51
1:CA:1472:U:H2'	1:CA:1473:A:H8	1.76	0.51
2:CB:219:VAL:CG1	2:CB:223:ILE:HG13	2.39	0.51
6:CF:48:LEU:HD22	18:CR:77:GLY:HA3	1.93	0.51
13:CM:86:CYS:HB3	19:CS:74:PHE:CE1	2.46	0.51
22:CV:51:C:H5''	22:CV:51:C:C6	2.31	0.51
25:D0:66:VAL:HG12	25:D0:67:VAL:H	1.75	0.51
35:DA:154(A):C:H2'	35:DA:157:U:H5'	1.93	0.51
35:DA:244:A:O3'	47:DP:74:GLU:HB3	2.11	0.51
35:DA:1281:G:H5'	35:DA:1281:G:C8	2.42	0.51
35:DA:2341:G:H2'	35:DA:2342:C:H6	1.72	0.51
35:DA:2417:C:C4	35:DA:2418:A:N7	2.79	0.51
41:DG:29:TRP:HA	41:DG:29:TRP:CE3	2.46	0.51
41:DG:58:GLN:O	41:DG:61:ALA:HB3	2.11	0.51
42:DH:108:GLY:HA3	42:DH:152:ARG:NH2	2.26	0.51
45:DN:68:GLU:O	45:DN:69:GLN:HG3	2.11	0.51
45:DN:128:HIS:CE1	45:DN:134:ARG:HD2	2.46	0.51
46:DO:2:ILE:HB	46:DO:33:ALA:HB3	1.92	0.51
48:DQ:32:TYR:CZ	48:DQ:111:GLU:HG3	2.46	0.51
49:DR:49:ASP:OD1	49:DR:95:THR:HB	2.11	0.51
51:DT:106:SER:CA	51:DT:110:ILE:HD11	2.40	0.51
52:DU:83:LEU:H	52:DU:83:LEU:CD1	2.24	0.51
52:DU:103:PRO:HD2	52:DU:104:GLN:HE22	1.76	0.51
54:DW:110:LYS:O	54:DW:111:HIS:C	2.54	0.51
57:DZ:109:ALA:O	57:DZ:113:ALA:HB3	2.10	0.51
1:AA:113:G:H2'	1:AA:114:U:H6	1.76	0.50
1:AA:182:U:O4'	1:AA:182:U:O2	2.29	0.50
1:AA:192:U:H2'	1:AA:193:C:C6	2.46	0.50
1:AA:229:U:O2'	1:AA:230:G:H5'	2.11	0.50
1:AA:540:G:H2'	1:AA:541:G:O4'	2.11	0.50
1:AA:547:A:H4'	1:AA:548:G:O5'	2.11	0.50
1:AA:793:U:O2	1:AA:1516:G:H4'	2.11	0.50
1:AA:1124:G:C2'	1:AA:1125:U:H5'	2.39	0.50
1:AA:1373:G:H5''	7:AG:36:LYS:CG	2.41	0.50
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.76	0.50
4:AD:50:ARG:HD2	4:AD:50:ARG:C	2.35	0.50
4:AD:108:LEU:HD12	4:AD:174:LEU:HD13	1.92	0.50
5:AE:110:LEU:HD13	5:AE:115:VAL:HG11	1.93	0.50
11:AK:22:HIS:HB3	11:AK:29:ILE:HG23	1.94	0.50
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:18:G:H1'	24:AY:89:LYS:CE	2.41	0.50
26:B1:19:GLN:NE2	35:BA:2081:C:OP1	2.44	0.50
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.93	0.50
35:BA:108:U:H2'	35:BA:109:G:H8	1.76	0.50
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.10	0.50
35:BA:491:G:H2'	35:BA:492:A:C8	2.46	0.50
35:BA:533:G:H5'	52:BU:24:TYR:CE2	2.46	0.50
35:BA:639:U:H2'	35:BA:640:C:C6	2.46	0.50
35:BA:830:G:H4'	35:BA:831:G:OP2	2.11	0.50
35:BA:920:G:O2'	35:BA:921:G:H5'	2.11	0.50
35:BA:1021:A:C8	35:BA:1021:A:C3'	2.90	0.50
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.10	0.50
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.09	0.50
35:BA:2524:G:H5'	35:BA:2524:G:C8	2.40	0.50
38:BD:133:LEU:C	38:BD:135:PHE:H	2.18	0.50
39:BE:5:LEU:HB2	39:BE:51:PHE:CD2	2.44	0.50
41:BG:51:ARG:HE	41:BG:51:ARG:CA	2.16	0.50
43:BI:52:ARG:HH11	43:BI:53:ALA:HA	1.77	0.50
44:BJ:80:UNK:O	44:BJ:82:UNK:N	2.44	0.50
47:BP:23:PRO:O	47:BP:33:ARG:NH1	2.41	0.50
48:BQ:73:PRO:HG3	48:BQ:93:TYR:HE2	1.77	0.50
50:BS:97:ARG:HG2	50:BS:97:ARG:HH11	1.76	0.50
51:BT:20:PRO:O	51:BT:22:PHE:HD2	1.93	0.50
54:BW:82:LEU:HB2	54:BW:98:LYS:HB2	1.93	0.50
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG12	2.22	0.50
1:CA:166:G:H2'	1:CA:167:G:H8	1.75	0.50
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	2.11	0.50
1:CA:782:A:H2'	1:CA:783:C:H5'	1.92	0.50
1:CA:939:G:H1	1:CA:1344:C:N4	2.09	0.50
1:CA:973:G:H1'	10:CJ:55:LYS:CG	2.40	0.50
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.12	0.50
1:CA:1410:G:H2'	1:CA:1411:C:H6	1.76	0.50
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.89	0.50
3:CC:115:LEU:O	3:CC:119:ARG:N	2.43	0.50
4:CD:15:GLU:HG2	4:CD:63:LYS:HG3	1.93	0.50
4:CD:119:GLN:O	4:CD:123:HIS:CD2	2.64	0.50
4:CD:188:LEU:HD12	4:CD:188:LEU:N	2.25	0.50
5:CE:139:LEU:HD23	5:CE:142:LEU:HD11	1.92	0.50
7:CG:6:ARG:HH11	7:CG:6:ARG:CB	2.24	0.50
11:CK:57:THR:HG23	11:CK:60:ALA:CB	2.41	0.50
12:CL:24:LEU:C	12:CL:26:GLY:N	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.63	0.50
16:CP:80:PHE:O	16:CP:81:ARG:C	2.53	0.50
17:CQ:5:VAL:HG13	17:CQ:59:ILE:O	2.10	0.50
20:CT:44:ALA:HB3	20:CT:91:LEU:HD12	1.93	0.50
22:CV:44:A:H2'	22:CV:45:G:O4'	2.11	0.50
33:D8:28:GLY:O	33:D8:32:LEU:HG	2.11	0.50
35:DA:84:A:N1	35:DA:98:G:O2'	2.42	0.50
35:DA:310:A:OP1	56:DY:18:GLY:HA2	2.10	0.50
35:DA:1111:A:O2'	35:DA:1112:G:H4'	2.10	0.50
35:DA:1475:G:N3	35:DA:1475:G:H2'	2.26	0.50
35:DA:1532:C:C2'	35:DA:1532:C:O2	2.59	0.50
35:DA:2579:C:O2'	39:DE:131:ALA:HB3	2.11	0.50
35:DA:2712:U:O2'	35:DA:2713:A:H5'	2.11	0.50
35:DA:2791:C:H5''	35:DA:2893:G:C2	2.46	0.50
37:DC:24:GLU:O	37:DC:25:ALA:HB2	2.11	0.50
37:DC:74:VAL:C	37:DC:76:ALA:H	2.18	0.50
38:DD:45:ASN:C	38:DD:46:GLN:OE1	2.54	0.50
39:DE:33:VAL:HG13	39:DE:69:LYS:HE3	1.93	0.50
40:DF:117:ARG:HG2	40:DF:192:LEU:HB2	1.92	0.50
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.76	0.50
41:DG:96:ARG:O	41:DG:99:MET:N	2.44	0.50
41:DG:111:LEU:HB3	41:DG:117:PHE:CE2	2.45	0.50
42:DH:15:VAL:CA	42:DH:27:LYS:O	2.59	0.50
42:DH:29:PRO:HD2	42:DH:79:VAL:O	2.10	0.50
43:DI:111:PRO:HG2	43:DI:112:LYS:HG3	1.93	0.50
43:DI:120:ILE:O	43:DI:121:LYS:C	2.55	0.50
45:DN:33:LEU:HD23	45:DN:38:HIS:CD2	2.45	0.50
48:DQ:50:ALA:O	48:DQ:51:ARG:C	2.54	0.50
51:DT:33:LYS:HZ1	51:DT:43:GLN:HE22	1.58	0.50
51:DT:128:GLU:O	51:DT:129:ARG:C	2.54	0.50
52:DU:92:ARG:O	52:DU:94:ASN:N	2.44	0.50
53:DV:18:LEU:N	53:DV:18:LEU:CD1	2.72	0.50
53:DV:75:PHE:CD1	53:DV:75:PHE:C	2.89	0.50
1:AA:600:C:O2'	1:AA:601:C:H5'	2.11	0.50
1:AA:834:C:O2'	1:AA:835:U:H5'	2.11	0.50
1:AA:1256:A:H5'	1:AA:1257:U:OP1	2.11	0.50
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.46	0.50
1:AA:1344:C:C2'	1:AA:1345:U:H5'	2.40	0.50
2:AB:71:VAL:HG12	2:AB:93:VAL:CB	2.40	0.50
13:AM:90:LEU:C	13:AM:92:HIS:N	2.69	0.50
14:AN:26:ARG:HG3	14:AN:39:LEU:CD2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:70:LEU:HD21	15:AO:77:ARG:HB2	1.92	0.50
20:AT:67:ALA:HA	20:AT:73:HIS:H	1.75	0.50
20:AT:76:ALA:O	20:AT:80:ARG:HG2	2.11	0.50
24:AY:73:GLY:CA	24:AY:82:GLN:NE2	2.73	0.50
27:B2:13:ALA:C	27:B2:15:LYS:N	2.68	0.50
29:B4:5:ILE:H	41:BG:67:LYS:NZ	2.09	0.50
29:B4:35:VAL:HG21	41:BG:113:ARG:CZ	2.41	0.50
29:B4:55:ARG:HD3	29:B4:55:ARG:C	2.36	0.50
33:B8:50:LEU:HA	33:B8:53:PRO:CG	2.42	0.50
34:B9:17:ILE:C	34:B9:17:ILE:HD13	2.36	0.50
35:BA:11:G:O2'	35:BA:12:U:H5'	2.11	0.50
35:BA:979:G:H3'	35:BA:980:A:H5''	1.92	0.50
35:BA:1022:G:N7	45:BN:66:LYS:NZ	2.59	0.50
35:BA:1268:A:H2'	35:BA:1269:A:O4'	2.12	0.50
36:BB:45:A:H1'	41:BG:95:ARG:HH21	1.75	0.50
38:BD:27:THR:CG2	38:BD:27:THR:O	2.59	0.50
38:BD:44:ASN:HB3	38:BD:48:ARG:O	2.11	0.50
40:BF:165:ARG:CB	40:BF:165:ARG:NH1	2.73	0.50
41:BG:111:LEU:N	41:BG:112:PRO:HD2	2.27	0.50
42:BH:108:GLY:HA3	42:BH:152:ARG:NH2	2.26	0.50
43:BI:88:ILE:HG13	43:BI:89:TYR:N	2.25	0.50
43:BI:113:ARG:HH11	43:BI:132:PRO:HB3	1.75	0.50
45:BN:93:THR:O	45:BN:94:HIS:HB2	2.09	0.50
47:BP:16:ARG:NH1	47:BP:16:ARG:O	2.41	0.50
47:BP:96:THR:HG22	47:BP:126:VAL:HG21	1.92	0.50
53:BV:40:LEU:CD2	53:BV:40:LEU:N	2.74	0.50
54:BW:64:MET:C	54:BW:65:LEU:HD23	2.36	0.50
57:BZ:11:GLU:HB2	57:BZ:13:GLU:OE2	2.12	0.50
57:BZ:141:VAL:HA	57:BZ:144:LEU:CD2	2.41	0.50
1:CA:322:C:H5	1:CA:328:C:H5	1.58	0.50
1:CA:390:C:H4'	16:CP:28:ARG:HH21	1.76	0.50
1:CA:663:A:H5''	18:CR:61:LYS:HE3	1.93	0.50
1:CA:1125:U:H4'	1:CA:1126:U:H5	1.76	0.50
1:CA:1409:C:C4	1:CA:1410:G:N7	2.79	0.50
3:CC:11:ARG:HG2	3:CC:11:ARG:HH11	1.76	0.50
4:CD:11:LEU:HD12	4:CD:21:LEU:HD13	1.92	0.50
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.74	0.50
8:CH:30:ARG:NH1	8:CH:30:ARG:CB	2.72	0.50
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.36	0.50
19:CS:40:ILE:HD12	19:CS:62:ILE:HD11	1.93	0.50
20:CT:84:LEU:C	20:CT:84:LEU:HD13	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:24:U:O2'	35:DA:1923:U:OP1	2.27	0.50
22:CV:37:A:H3'	22:CV:38:A:H8	1.76	0.50
22:CV:38:A:O2'	22:CV:39:C:H5'	2.12	0.50
22:CW:2:G:H1'	22:CW:72:A:C2	2.46	0.50
35:DA:868:U:C4	35:DA:869:G:C8	2.98	0.50
35:DA:1047:G:C8	35:DA:1110:G:C6	2.99	0.50
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.45	0.50
35:DA:1839:G:H5'	35:DA:1839:G:C8	2.46	0.50
35:DA:1904:G:O2'	35:DA:1905:C:H5'	2.12	0.50
35:DA:1920:C:O2'	35:DA:1921:G:H5'	2.10	0.50
35:DA:2502:G:H5''	35:DA:2503:A:H5''	1.93	0.50
35:DA:2580:U:C5'	39:DE:131:ALA:N	2.74	0.50
35:DA:2636:U:H4'	39:DE:80:GLU:CD	2.36	0.50
41:DG:99:MET:HG3	41:DG:100:TRP:N	2.26	0.50
41:DG:107:LEU:C	41:DG:108:ASN:HD22	2.19	0.50
42:DH:12:PRO:HB3	42:DH:76:VAL:HG11	1.92	0.50
42:DH:95:ARG:C	42:DH:95:ARG:HD2	2.35	0.50
42:DH:167:GLU:CD	42:DH:167:GLU:N	2.70	0.50
45:DN:46:VAL:HG22	45:DN:46:VAL:O	2.11	0.50
46:DO:7:TYR:HE1	46:DO:20:MET:HE3	1.76	0.50
47:DP:24:GLY:O	47:DP:25:SER:CB	2.59	0.50
49:DR:94:TYR:C	49:DR:117:VAL:HG23	2.36	0.50
49:DR:103:ARG:HB3	49:DR:109:ALA:O	2.10	0.50
50:DS:66:ALA:CA	50:DS:69:VAL:HG12	2.40	0.50
51:DT:35:LYS:O	51:DT:36:GLU:C	2.54	0.50
53:DV:39:LEU:HD12	53:DV:47:VAL:CG1	2.38	0.50
56:DY:27:VAL:HG12	56:DY:29:GLU:H	1.76	0.50
57:DZ:137:ILE:HG21	57:DZ:155:LEU:HD12	1.92	0.50
57:DZ:163:LEU:HD23	57:DZ:163:LEU:N	2.27	0.50
1:AA:165:C:H2'	1:AA:166:G:C8	2.46	0.50
1:AA:637:G:O2'	1:AA:638:G:H5'	2.10	0.50
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.11	0.50
1:AA:1286:A:OP1	21:AU:25:LYS:HE2	2.11	0.50
2:AB:20:GLU:HG3	2:AB:191:ASP:OD1	2.12	0.50
2:AB:61:LEU:HD11	2:AB:160:ASP:CB	2.40	0.50
3:AC:121:ALA:CB	3:AC:187:ALA:HB1	2.38	0.50
4:AD:98:GLU:HG2	4:AD:194:LEU:HD11	1.94	0.50
4:AD:105:VAL:HG12	4:AD:106:TYR:N	2.26	0.50
4:AD:131:ARG:HG3	4:AD:131:ARG:HH11	1.75	0.50
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.12	0.50
8:AH:23:SER:HA	8:AH:63:LEU:CD2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.92	0.50
9:AI:17:VAL:HG11	9:AI:81:ILE:HA	1.92	0.50
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.72	0.50
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	2.11	0.50
24:AY:73:GLY:HA3	24:AY:82:GLN:NE2	2.21	0.50
25:B0:20:ARG:NH1	35:BA:2357:U:OP1	2.43	0.50
29:B4:35:VAL:HG21	41:BG:113:ARG:NH1	2.27	0.50
31:B6:45:LYS:HB3	31:B6:45:LYS:NZ	2.26	0.50
33:B8:33:ASN:CA	33:B8:36:LYS:HD2	2.42	0.50
35:BA:154(A):C:O2	35:BA:154(A):C:H5''	2.11	0.50
35:BA:280:C:N4	35:BA:360:G:H1	2.09	0.50
35:BA:460:A:H2'	35:BA:461:C:O4'	2.11	0.50
35:BA:865:C:H4'	35:BA:866:A:C8	2.46	0.50
35:BA:1047:G:H2'	35:BA:1110:G:C2	2.45	0.50
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.43	0.50
35:BA:2310:A:O2'	35:BA:2311:A:H5''	2.12	0.50
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.38	0.50
35:BA:2678:C:H2'	35:BA:2679:A:O4'	2.11	0.50
35:BA:2861:G:O2'	35:BA:2862:G:H5'	2.11	0.50
36:BB:15:A:H1'	36:BB:110:G:C5	2.46	0.50
38:BD:43:ARG:HD2	38:BD:44:ASN:CG	2.35	0.50
48:BQ:46:GLN:NE2	48:BQ:126:PRO:HD3	2.26	0.50
48:BQ:84:GLY:O	48:BQ:85:LYS:HB2	2.10	0.50
49:BR:66:VAL:HG11	49:BR:79:LEU:HD12	1.93	0.50
51:BT:30:VAL:HG21	51:BT:84:GLN:H	1.75	0.50
55:BX:29:TRP:CE3	55:BX:78:LYS:HB3	2.47	0.50
56:BY:26:LYS:O	56:BY:27:VAL:O	2.29	0.50
1:CA:401:C:P	4:CD:73:ARG:CZ	2.96	0.50
1:CA:429:U:H4'	1:CA:430:A:O5'	2.10	0.50
1:CA:848:C:H2'	1:CA:849:C:C6	2.46	0.50
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.39	0.50
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.10	0.50
1:CA:1157:A:H61	1:CA:1178:G:H1'	1.76	0.50
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.46	0.50
1:CA:1332:A:O2'	1:CA:1333:A:H5'	2.11	0.50
1:CA:1447:A:O2'	1:CA:1452:C:H5'	2.11	0.50
2:CB:43:ASP:OD2	2:CB:45:GLN:HB3	2.11	0.50
9:CI:10:ARG:CZ	9:CI:11:LYS:HB2	2.41	0.50
28:D3:30:ARG:H	28:D3:30:ARG:HD2	1.76	0.50
29:D4:54:GLY:O	29:D4:55:ARG:HB3	2.11	0.50
35:DA:867:C:C4	35:DA:912:C:O2'	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:920:G:O2'	35:DA:921:G:H5'	2.11	0.50
35:DA:926:A:H2'	35:DA:927:G:C8	2.46	0.50
35:DA:1268:A:H2'	35:DA:1269:A:O4'	2.11	0.50
35:DA:2339:G:H2'	35:DA:2340:G:C8	2.46	0.50
35:DA:2390:U:O2'	35:DA:2391:G:H5'	2.11	0.50
35:DA:2682:U:H5'	35:DA:2682:U:H6	1.74	0.50
35:DA:2692:C:H1'	35:DA:2847:U:O2'	2.12	0.50
38:DD:33:LEU:HD23	38:DD:34:VAL:HG13	1.92	0.50
38:DD:34:VAL:O	38:DD:64:ILE:CG2	2.58	0.50
38:DD:48:ARG:HH11	38:DD:48:ARG:HG3	1.76	0.50
39:DE:93:VAL:HG11	39:DE:180:ASN:O	2.11	0.50
40:DF:155:LEU:HD22	40:DF:186:ILE:HA	1.93	0.50
40:DF:192:LEU:CD2	40:DF:194:MET:HE2	2.36	0.50
43:DI:88:ILE:HD12	43:DI:89:TYR:H	1.76	0.50
43:DI:110:ASP:CG	43:DI:130:TYR:OH	2.55	0.50
47:DP:123:LEU:C	47:DP:123:LEU:HD12	2.36	0.50
48:DQ:60:ARG:HH11	48:DQ:60:ARG:HG3	1.76	0.50
51:DT:46:GLU:OE2	51:DT:88:ILE:HG13	2.12	0.50
51:DT:61:PHE:CE1	51:DT:76:PHE:HD1	2.29	0.50
52:DU:92:ARG:HB3	53:DV:11:GLN:HE22	1.75	0.50
54:DW:85:VAL:CG1	54:DW:86:LEU:N	2.74	0.50
56:DY:52:SER:HB3	56:DY:55:TYR:CE1	2.44	0.50
1:AA:182:U:H2'	1:AA:183:G:H5'	1.93	0.50
1:AA:423:G:C2'	1:AA:424:G:H5'	2.40	0.50
1:AA:918:A:O2'	1:AA:919:A:H5'	2.11	0.50
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.93	0.50
1:AA:1492:A:C2	24:AY:36:GLY:O	2.64	0.50
1:AA:1502:A:H5'	1:AA:1504:G:N7	2.26	0.50
2:AB:118:LEU:C	2:AB:120:ALA:N	2.70	0.50
3:AC:111:LEU:HD21	3:AC:145:GLY:O	2.12	0.50
9:AI:79:LEU:HD13	9:AI:101:PHE:O	2.11	0.50
13:AM:86:CYS:HB3	19:AS:74:PHE:CE1	2.47	0.50
20:AT:13:LEU:HD13	20:AT:17:ARG:NH1	2.23	0.50
24:AY:96:LEU:HD13	24:AY:96:LEU:OXT	2.11	0.50
25:B0:36:ILE:HD12	25:B0:36:ILE:C	2.36	0.50
26:B1:66:HIS:CE1	35:BA:372:G:H3'	2.47	0.50
26:B1:67:ILE:HG22	26:B1:68:PRO:N	2.26	0.50
27:B2:62:THR:O	27:B2:66:GLU:HG3	2.12	0.50
27:B2:70:GLN:O	27:B2:72:ALA:N	2.44	0.50
29:B4:30:GLU:C	29:B4:31:ILE:HD12	2.37	0.50
35:BA:324:A:N6	35:BA:338:G:O2'	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:691:C:C4'	38:BD:43:ARG:HE	2.25	0.50
35:BA:729:G:N7	38:BD:209:ALA:HB3	2.26	0.50
35:BA:894:C:O2'	35:BA:895:U:H5'	2.11	0.50
35:BA:2029:G:H2'	35:BA:2031:A:OP2	2.11	0.50
35:BA:2724:C:OP1	39:BE:118:LYS:HE3	2.11	0.50
36:BB:105:A:H2'	36:BB:106:G:O4'	2.12	0.50
37:BC:63:SER:O	37:BC:64:LEU:HB2	2.11	0.50
40:BF:10:PRO:C	40:BF:128:ALA:HB2	2.37	0.50
41:BG:116:ASP:O	41:BG:117:PHE:HB3	2.11	0.50
42:BH:15:VAL:HA	42:BH:27:LYS:O	2.12	0.50
47:BP:136:GLU:N	47:BP:136:GLU:OE1	2.44	0.50
49:BR:49:ASP:O	49:BR:52:ILE:N	2.44	0.50
51:BT:72:VAL:HG12	51:BT:73:GLU:N	2.26	0.50
52:BU:66:ASN:ND2	52:BU:76:TYR:H	2.10	0.50
56:BY:99:CYS:O	56:BY:100:ALA:CB	2.59	0.50
57:BZ:81:ARG:HB3	57:BZ:81:ARG:CZ	2.41	0.50
1:CA:589:C:H6	1:CA:589:C:O5'	1.95	0.50
1:CA:1225:A:H5''	1:CA:1226:C:OP2	2.11	0.50
5:CE:20:GLN:O	5:CE:21:ALA:C	2.54	0.50
6:CF:37:VAL:HG13	6:CF:65:VAL:CG1	2.40	0.50
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.12	0.50
8:CH:29:SER:HB3	8:CH:32:LYS:CD	2.41	0.50
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.93	0.50
11:CK:20:TYR:CE2	11:CK:83:ILE:HD12	2.46	0.50
13:CM:57:ARG:NH2	29:D4:35:VAL:HG23	2.25	0.50
14:CN:46:GLU:CD	14:CN:46:GLU:H	2.19	0.50
17:CQ:35:VAL:HG12	17:CQ:36:ILE:N	2.26	0.50
34:D9:9:ARG:NH1	34:D9:14:CYS:O	2.44	0.50
35:DA:1665:A:C2'	35:DA:1666:G:H5'	2.41	0.50
35:DA:2418:A:H2'	35:DA:2419:U:H6	1.75	0.50
35:DA:2892:A:H2'	35:DA:2893:G:O4'	2.12	0.50
38:DD:231:HIS:ND1	38:DD:232:PRO:HD2	2.26	0.50
39:DE:1:MET:HE2	39:DE:83:ASP:O	2.12	0.50
47:DP:39:LYS:C	47:DP:41:ARG:HD2	2.36	0.50
47:DP:75:ILE:H	47:DP:75:ILE:CD1	2.18	0.50
50:DS:15:ARG:C	50:DS:17:ARG:N	2.68	0.50
53:DV:28:GLU:O	53:DV:61:VAL:HG21	2.11	0.50
57:DZ:8:TYR:HB2	57:DZ:38:TYR:CD2	2.47	0.50
57:DZ:115:GLY:C	57:DZ:174:VAL:HG13	2.37	0.50
1:AA:37:U:O2'	1:AA:38:G:H5'	2.12	0.50
1:AA:829:G:H2'	1:AA:830:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.42	0.50
1:AA:1179:A:O3'	9:AI:103:THR:HG23	2.11	0.50
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.46	0.50
1:AA:1442(A):G:H22	51:BT:119:LYS:HB2	1.76	0.50
1:AA:1492:A:H2	24:AY:36:GLY:O	1.94	0.50
4:AD:93:PHE:CE2	4:AD:97:LEU:HD21	2.47	0.50
21:AU:10:ARG:HA	21:AU:13:ILE:HB	1.93	0.50
30:B5:50:GLY:O	30:B5:56:LYS:HD3	2.12	0.50
35:BA:143:G:H1'	55:BX:37:THR:HG21	1.92	0.50
35:BA:1281:G:C2'	35:BA:1282:U:H5'	2.41	0.50
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.25	0.50
39:BE:102:VAL:HB	39:BE:199:ARG:O	2.12	0.50
40:BF:148:LEU:HD11	40:BF:193:VAL:HG21	1.93	0.50
46:BO:86:ILE:H	46:BO:86:ILE:HD12	1.76	0.50
47:BP:24:GLY:O	47:BP:25:SER:CB	2.59	0.50
49:BR:10:LEU:HB3	49:BR:17:ARG:HD2	1.94	0.50
50:BS:42:ASP:C	50:BS:44:LYS:N	2.69	0.50
54:BW:110:LYS:O	54:BW:111:HIS:C	2.53	0.50
56:BY:14:LEU:CG	56:BY:15:VAL:N	2.75	0.50
57:BZ:81:ARG:NH1	57:BZ:81:ARG:CB	2.75	0.50
1:CA:148:G:H2'	1:CA:149:A:C8	2.47	0.50
1:CA:175:C:H2'	1:CA:176:C:C6	2.45	0.50
1:CA:190:U:H2'	1:CA:191:G:C8	2.44	0.50
1:CA:318:G:H2'	1:CA:319:G:C8	2.47	0.50
1:CA:645:C:C2'	1:CA:646:U:O5'	2.59	0.50
1:CA:1225:A:N3	1:CA:1226:C:C5	2.80	0.50
2:CB:214:ILE:O	2:CB:215:LEU:HD22	2.11	0.50
5:CE:139:LEU:C	5:CE:141:GLN:N	2.69	0.50
7:CG:83:ALA:HB1	22:CW:38:A:H2	1.77	0.50
8:CH:34:GLU:HB2	8:CH:118:VAL:HG21	1.92	0.50
9:CI:5:TYR:HE2	9:CI:16:ARG:HB3	1.76	0.50
12:CL:51:LYS:O	12:CL:67:ILE:HG13	2.12	0.50
17:CQ:87:LYS:NZ	17:CQ:87:LYS:HB3	2.26	0.50
19:CS:33:THR:HG22	19:CS:34:TRP:H	1.74	0.50
29:D4:9:LEU:O	29:D4:10:VAL:HG13	2.11	0.50
33:D8:37:SER:C	33:D8:39:LYS:N	2.69	0.50
35:DA:71:A:OP2	35:DA:71:A:H3'	2.11	0.50
35:DA:554:U:O2'	35:DA:555:U:H5'	2.12	0.50
35:DA:1844:C:H5'	38:DD:256:GLY:O	2.12	0.50
35:DA:2846:G:H2'	35:DA:2847:U:C6	2.47	0.50
37:DC:63:SER:O	37:DC:64:LEU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:173:VAL:HG22	38:DD:174:ILE:H	1.77	0.50
39:DE:34:VAL:HG12	39:DE:48:GLN:O	2.11	0.50
39:DE:44:TYR:HE2	39:DE:80:GLU:OE1	1.95	0.50
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.36	0.50
40:DF:152:GLU:OE1	40:DF:191:ARG:HD2	2.11	0.50
43:DI:71:ILE:HG13	43:DI:72:LEU:HG	1.94	0.50
44:DJ:15:UNK:HA	44:DJ:66:UNK:HA	1.93	0.50
44:DJ:27:UNK:HA	44:DJ:113:UNK:HA	1.92	0.50
45:DN:26:LEU:O	45:DN:26:LEU:HD12	2.11	0.50
47:DP:101:VAL:HG12	47:DP:107:LYS:H	1.77	0.50
48:DQ:70:PRO:HA	48:DQ:94:VAL:O	2.12	0.50
51:DT:38:ASN:ND2	51:DT:38:ASN:C	2.67	0.50
52:DU:66:ASN:ND2	52:DU:76:TYR:H	2.08	0.50
1:AA:619:U:C2	4:AD:135:LEU:HD11	2.46	0.50
1:AA:920:U:C1'	1:AA:1080:A:C2	2.94	0.50
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.46	0.50
1:AA:1170:A:H2'	1:AA:1171:G:O4'	2.11	0.50
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.46	0.50
2:AB:239:VAL:O	2:AB:240:GLN:HB3	2.11	0.50
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.11	0.50
3:AC:90:GLU:O	3:AC:93:LYS:HB3	2.11	0.50
10:AJ:50:ILE:HG23	10:AJ:60:ARG:HH11	1.77	0.50
10:AJ:65:LEU:HA	14:AN:55:GLY:O	2.11	0.50
12:AL:117:TYR:O	12:AL:119:THR:N	2.45	0.50
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.54	0.50
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	2.11	0.50
20:AT:24:LEU:HD22	20:AT:24:LEU:O	2.11	0.50
23:AX:21:C:O2'	23:AX:22:A:O5'	2.29	0.50
28:B3:4:LEU:HD12	28:B3:4:LEU:H	1.76	0.50
29:B4:54:GLY:O	29:B4:55:ARG:HB3	2.10	0.50
31:B6:22:ALA:HB2	31:B6:39:TYR:CE2	2.46	0.50
35:BA:17:G:H2'	35:BA:18:C:H6	1.76	0.50
35:BA:203:C:H3'	35:BA:204:A:H5''	1.93	0.50
35:BA:237:C:O2'	35:BA:238:C:H5'	2.11	0.50
35:BA:613:G:H8	35:BA:613:G:C5'	2.20	0.50
35:BA:662:G:P	47:BP:18:ARG:HD2	2.51	0.50
35:BA:814:C:O2'	35:BA:815:C:H5'	2.12	0.50
35:BA:1026:U:H5'	35:BA:1027:A:OP2	2.12	0.50
35:BA:1280:G:H2'	35:BA:1281:G:C5'	2.39	0.50
35:BA:1478:G:O2'	35:BA:1558:A:H2	1.95	0.50
35:BA:1920:C:O2'	35:BA:1921:G:H5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:50:ASP:N	37:BC:51:PRO:HD3	2.27	0.50
39:BE:176:ILE:HG22	39:BE:176:ILE:O	2.11	0.50
42:BH:44:VAL:C	42:BH:46:GLU:H	2.20	0.50
42:BH:85:LYS:O	42:BH:132:ARG:HA	2.11	0.50
45:BN:67:LEU:O	45:BN:68:GLU:HB3	2.11	0.50
49:BR:17:ARG:O	49:BR:20:LEU:HB3	2.11	0.50
50:BS:25:ARG:HH11	50:BS:25:ARG:CB	2.24	0.50
51:BT:32:TYR:CD2	51:BT:81:PRO:HB2	2.47	0.50
53:BV:18:LEU:HD13	53:BV:19:LYS:H	1.76	0.50
54:BW:111:HIS:CG	54:BW:112:GLY:H	2.30	0.50
1:CA:294:U:H2'	1:CA:295:C:C6	2.46	0.50
1:CA:300:A:H2'	1:CA:301:G:O4'	2.12	0.50
1:CA:591:U:H2'	1:CA:592:G:C8	2.45	0.50
1:CA:658:G:H2'	1:CA:659:U:H6	1.77	0.50
1:CA:724:G:O2'	1:CA:725:G:H5'	2.12	0.50
1:CA:836:G:N1	1:CA:837:G:C5	2.80	0.50
1:CA:920:U:C1'	1:CA:1080:A:C2	2.95	0.50
3:CC:42:LEU:HA	3:CC:45:LYS:HD2	1.92	0.50
4:CD:30:LYS:HG2	4:CD:35:ARG:NH2	2.26	0.50
4:CD:127:THR:HA	4:CD:132:ARG:HA	1.93	0.50
4:CD:129:ASN:H	4:CD:145:GLU:HB2	1.75	0.50
14:CN:32:SER:OG	14:CN:41:ARG:HB3	2.12	0.50
19:CS:53:ASN:O	19:CS:77:THR:HG22	2.12	0.50
22:CV:55:U:O4	22:CV:57:A:O5'	2.25	0.50
22:CW:74:C:O2'	22:CW:75:C:H5'	2.12	0.50
26:D1:30:VAL:HG23	26:D1:31:GLY:H	1.77	0.50
26:D1:49:VAL:HG11	26:D1:70:VAL:HG21	1.92	0.50
27:D2:8:LYS:O	27:D2:11:GLU:N	2.45	0.50
29:D4:56:VAL:CG1	29:D4:57:GLU:H	2.18	0.50
35:DA:241:A:H5'	35:DA:243:U:H1'	1.94	0.50
35:DA:363(A):A:H3'	35:DA:363(B):G:H8	1.77	0.50
35:DA:729:G:N7	38:DD:209:ALA:HB3	2.26	0.50
35:DA:819:A:C4	35:DA:1189:A:C2	2.99	0.50
35:DA:1921:G:O2'	35:DA:1922:G:H5'	2.11	0.50
38:DD:54:ARG:CG	38:DD:54:ARG:NH1	2.74	0.50
39:DE:55:ASN:O	39:DE:57:LYS:N	2.45	0.50
39:DE:64:LYS:C	39:DE:66:HIS:N	2.68	0.50
43:DI:54:GLN:OE1	43:DI:54:GLN:HA	2.11	0.50
52:DU:92:ARG:HD2	53:DV:11:GLN:HB2	1.93	0.50
56:DY:101:LYS:CG	56:DY:102:CYS:N	2.69	0.50
1:AA:277:C:H2'	1:AA:278:G:H8	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:513:C:H2'	1:AA:514:C:C6	2.46	0.50
1:AA:783:C:O2'	1:AA:784:C:H5'	2.12	0.50
1:AA:977:A:O2'	1:AA:978:A:H5'	2.12	0.50
1:AA:1124:G:N3	10:AJ:38:ILE:HD12	2.26	0.50
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.95	0.50
2:AB:70:PHE:O	2:AB:71:VAL:HG13	2.11	0.50
3:AC:181:ASN:HD21	3:AC:204:LEU:HD12	1.76	0.50
4:AD:129:ASN:H	4:AD:145:GLU:HB2	1.77	0.50
7:AG:115:ARG:HB2	7:AG:118:VAL:CG2	2.39	0.50
7:AG:146:GLU:CA	7:AG:149:ARG:HB2	2.36	0.50
9:AI:56:LEU:HD23	9:AI:57:GLY:N	2.26	0.50
10:AJ:13:HIS:HD2	10:AJ:14:LYS:HG2	1.76	0.50
12:AL:107:VAL:HG23	12:AL:117:TYR:HB3	1.94	0.50
15:AO:8:LYS:HG2	15:AO:12:ILE:HD11	1.93	0.50
29:B4:44:THR:HG22	29:B4:45:GLY:N	2.26	0.50
31:B6:11:LEU:HD21	31:B6:51:GLU:CB	2.30	0.50
34:B9:31:LYS:HD2	35:BA:2478:A:H5'	1.93	0.50
35:BA:533:G:H5'	52:BU:24:TYR:CD2	2.46	0.50
35:BA:622:G:O2'	35:BA:623:G:H5'	2.11	0.50
35:BA:1301:A:H4'	35:BA:1302:A:OP1	2.12	0.50
35:BA:2306:C:C5	35:BA:2307:G:H1'	2.46	0.50
35:BA:2342:C:O2	35:BA:2374:C:H4'	2.11	0.50
35:BA:2776:A:H4'	35:BA:2777:G:H5''	1.92	0.50
36:BB:54:G:H21	41:BG:29:TRP:HE1	1.60	0.50
37:BC:74:VAL:C	37:BC:76:ALA:H	2.19	0.50
38:BD:31:LYS:HA	38:BD:31:LYS:NZ	2.26	0.50
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.27	0.50
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.11	0.50
40:BF:22:ALA:HB1	40:BF:26:ALA:CA	2.42	0.50
40:BF:68:LYS:O	40:BF:70:THR:N	2.43	0.50
45:BN:1:MET:C	45:BN:2:LYS:HD2	2.37	0.50
51:BT:30:VAL:HG13	51:BT:84:GLN:HB2	1.92	0.50
51:BT:33:LYS:HZ1	51:BT:43:GLN:HE22	1.59	0.50
51:BT:82:LEU:H	51:BT:82:LEU:CD1	2.20	0.50
52:BU:53:ARG:HG3	52:BU:53:ARG:NH1	2.27	0.50
1:CA:109:A:C6	1:CA:326:G:C6	2.99	0.50
1:CA:126:G:H4'	1:CA:634:C:H1'	1.92	0.50
1:CA:163:C:O2'	1:CA:164:U:H5'	2.11	0.50
1:CA:589:C:H2'	1:CA:590:C:C6	2.46	0.50
1:CA:921:U:H2'	1:CA:922:G:O4'	2.12	0.50
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1188:A:H4'	14:CN:58:LYS:HD2	1.94	0.50
1:CA:1206:G:O2'	1:CA:1207:G:OP1	2.30	0.50
1:CA:1216:G:O2'	1:CA:1217:C:H5'	2.11	0.50
2:CB:115:LEU:HD13	2:CB:145:LEU:CB	2.42	0.50
2:CB:239:VAL:O	2:CB:240:GLN:HB3	2.11	0.50
3:CC:8:ILE:HD12	3:CC:16:ARG:NH1	2.26	0.50
3:CC:181:ASN:ND2	3:CC:204:LEU:HD12	2.27	0.50
4:CD:18:LYS:HD3	4:CD:20:TYR:OH	2.12	0.50
7:CG:22:LEU:O	7:CG:22:LEU:HD23	2.12	0.50
11:CK:106:LYS:O	11:CK:107:SER:HB2	2.12	0.50
31:D6:23:THR:HG21	35:DA:2419:U:H4'	1.94	0.50
35:DA:534:U:O2'	52:DU:49:HIS:CD2	2.65	0.50
35:DA:755:C:H2'	35:DA:756:C:C6	2.47	0.50
35:DA:807:U:O2'	35:DA:808:G:H5'	2.12	0.50
35:DA:956:G:H4'	48:DQ:83:MET:HE1	1.94	0.50
35:DA:1027:A:C2	35:DA:2488:A:H5'	2.46	0.50
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.47	0.50
35:DA:1348:G:H2'	35:DA:1349:A:C5'	2.40	0.50
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.47	0.50
35:DA:2135:A:C2	35:DA:2157:G:H4'	2.47	0.50
35:DA:2360:A:O2'	35:DA:2361:A:P	2.69	0.50
35:DA:2723:C:H5''	49:DR:2:ARG:HD2	1.94	0.50
35:DA:2732:G:C3'	35:DA:2733:A:C5'	2.89	0.50
35:DA:2741:A:H2'	35:DA:2742:C:O4'	2.12	0.50
35:DA:2875:C:H4'	51:DT:5:ALA:HB2	1.92	0.50
36:DB:105:A:OP1	57:DZ:72:ARG:CZ	2.60	0.50
38:DD:113:VAL:C	38:DD:115:GLN:H	2.20	0.50
39:DE:75:VAL:O	39:DE:77:ILE:N	2.39	0.50
40:DF:8:GLN:O	40:DF:9:ILE:C	2.55	0.50
40:DF:67:GLN:O	40:DF:68:LYS:HG2	2.12	0.50
41:DG:14:GLU:O	41:DG:18:GLU:HB2	2.11	0.50
41:DG:102:PHE:O	41:DG:106:LEU:HG	2.12	0.50
42:DH:163:TYR:N	42:DH:163:TYR:CD1	2.80	0.50
43:DI:37:VAL:CG1	43:DI:38:LEU:N	2.74	0.50
45:DN:128:HIS:O	45:DN:128:HIS:CG	2.65	0.50
50:DS:48:LEU:HD12	50:DS:48:LEU:N	2.26	0.50
51:DT:117:ASP:O	51:DT:118:ARG:C	2.54	0.50
54:DW:51:LEU:HD13	54:DW:51:LEU:C	2.37	0.50
54:DW:85:VAL:HG12	54:DW:86:LEU:N	2.27	0.50
55:DX:47:PHE:CD2	55:DX:89:ILE:HG23	2.46	0.50
56:DY:39:VAL:HG12	56:DY:40:GLU:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:157:LEU:HD23	57:DZ:157:LEU:H	1.76	0.50
57:DZ:170:THR:HG22	57:DZ:171:ILE:H	1.76	0.50
1:AA:556:C:C2'	1:AA:557:G:H5'	2.42	0.50
1:AA:902:G:H2'	1:AA:903:G:H8	1.76	0.50
1:AA:1126:U:OP1	10:AJ:38:ILE:HD11	2.12	0.50
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.11	0.50
1:AA:1192:C:C5	1:AA:1193:G:C8	3.00	0.50
1:AA:1216:G:O2'	1:AA:1217:C:H5'	2.11	0.50
2:AB:95:GLN:HG3	2:AB:147:LYS:HG2	1.94	0.50
4:AD:127:THR:HA	4:AD:132:ARG:HA	1.94	0.50
7:AG:6:ARG:HG2	7:AG:6:ARG:O	2.11	0.50
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.93	0.50
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.93	0.50
12:AL:19:SER:C	12:AL:21:VAL:H	2.20	0.50
26:B1:7:ILE:HG22	26:B1:8:SER:N	2.26	0.50
32:B7:24:THR:HG23	32:B7:27:GLY:H	1.77	0.50
35:BA:144:C:H2'	35:BA:145:G:C8	2.44	0.50
35:BA:706:A:H2'	35:BA:707:G:O4'	2.12	0.50
35:BA:1115:G:H5'	35:BA:1115:G:H8	1.76	0.50
35:BA:1190:G:H5'	47:BP:35:HIS:H	1.77	0.50
35:BA:1223:G:H5'	35:BA:1224:C:OP2	2.11	0.50
35:BA:1531:C:O2'	35:BA:1532:C:OP2	2.30	0.50
35:BA:2479:G:OP1	35:BA:2537:U:H1'	2.11	0.50
35:BA:2828:C:O2'	35:BA:2829:C:H5'	2.12	0.50
40:BF:24:LEU:HD12	40:BF:25:PRO:CD	2.42	0.50
43:BI:120:ILE:O	43:BI:121:LYS:C	2.54	0.50
45:BN:126:PRO:O	45:BN:127:ASP:HB2	2.12	0.50
46:BO:14:THR:HG22	46:BO:52:VAL:HG13	1.92	0.50
47:BP:17:LYS:O	47:BP:18:ARG:C	2.53	0.50
49:BR:4:LEU:O	49:BR:5:LYS:HB2	2.11	0.50
50:BS:88:ASP:CG	50:BS:89:ARG:N	2.64	0.50
51:BT:35:LYS:NZ	51:BT:41:ARG:NH2	2.60	0.50
51:BT:117:ASP:CG	51:BT:120:ARG:HG3	2.37	0.50
53:BV:18:LEU:N	53:BV:18:LEU:CD1	2.73	0.50
57:BZ:23:LYS:HG3	57:BZ:38:TYR:HE1	1.76	0.50
57:BZ:43:GLU:O	57:BZ:47:VAL:HG23	2.12	0.50
1:CA:137:C:H42	1:CA:226:G:H1	1.60	0.50
1:CA:644:G:C3'	1:CA:645:C:C5'	2.88	0.50
1:CA:657:G:H2'	1:CA:658:G:H8	1.77	0.50
1:CA:1191:A:H5''	3:CC:4:LYS:NZ	2.27	0.50
1:CA:1207:G:HO2'	1:CA:1208:C:H6	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:97:TRP:HZ3	2:CB:172:ILE:HD13	1.77	0.50
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.10	0.50
3:CC:111:LEU:HD21	3:CC:145:GLY:O	2.12	0.50
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.11	0.50
4:CD:64:LEU:HD23	4:CD:64:LEU:C	2.36	0.50
7:CG:145:ALA:O	7:CG:146:GLU:HB2	2.12	0.50
11:CK:121:PRO:O	11:CK:122:LYS:O	2.30	0.50
19:CS:24:ALA:O	19:CS:25:LYS:CB	2.59	0.50
22:CV:23:C:O2'	22:CV:24:U:H5'	2.11	0.50
22:CW:6:G:H21	22:CW:68:C:N4	2.04	0.50
32:D7:19:ARG:HG2	32:D7:19:ARG:NH1	2.27	0.50
35:DA:7:G:H2'	35:DA:8:A:H8	1.77	0.50
35:DA:11:G:O2'	35:DA:12:U:H5'	2.12	0.50
35:DA:2709:G:O2'	35:DA:2710:C:H5'	2.12	0.50
35:DA:2753:A:O2'	35:DA:2754:U:H5'	2.12	0.50
38:DD:31:LYS:HA	38:DD:31:LYS:NZ	2.27	0.50
39:DE:73:GLU:CD	39:DE:73:GLU:H	2.20	0.50
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.12	0.50
40:DF:131:GLY:O	40:DF:132:VAL:C	2.55	0.50
41:DG:170:ARG:HH22	41:DG:180:PHE:HD1	1.60	0.50
45:DN:61:ARG:NE	45:DN:61:ARG:HA	2.26	0.50
46:DO:87:ILE:CG2	46:DO:91:LEU:HA	2.41	0.50
47:DP:99:LEU:O	47:DP:102:ARG:HB3	2.12	0.50
52:DU:107:ALA:O	52:DU:111:GLU:HG2	2.12	0.50
1:AA:446:G:H1	1:AA:488:C:H42	1.60	0.50
1:AA:969:A:O2'	1:AA:970:C:H5'	2.11	0.50
1:AA:986:A:H2'	1:AA:987:G:O4'	2.11	0.50
1:AA:1066:C:H3'	1:AA:1067:A:H8	1.75	0.50
1:AA:1489:G:O2'	1:AA:1490:C:H5'	2.11	0.50
2:AB:172:ILE:O	2:AB:175:ARG:HB3	2.12	0.50
5:AE:79:GLU:HB3	5:AE:92:LYS:HA	1.94	0.50
8:AH:35:ILE:O	8:AH:39:LEU:HD23	2.11	0.50
14:AN:32:SER:OG	14:AN:41:ARG:HB3	2.12	0.50
15:AO:48:LYS:HE2	15:AO:48:LYS:HA	1.94	0.50
15:AO:78:TYR:O	15:AO:80:ALA:N	2.39	0.50
19:AS:33:THR:CG2	19:AS:34:TRP:N	2.74	0.50
22:AV:1:C:N4	22:AV:72:A:H61	2.06	0.50
24:AY:15:THR:O	24:AY:17:ASN:N	2.45	0.50
24:AY:28:ILE:HG21	24:AY:30:LYS:HB2	1.94	0.50
28:B3:29:ARG:HG3	28:B3:29:ARG:NH1	2.26	0.50
35:BA:7:G:H2'	35:BA:8:A:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:116:C:O2'	35:BA:117:G:H5'	2.11	0.50
35:BA:1204:A:H2	35:BA:1241:A:N1	2.10	0.50
35:BA:1262:A:P	54:BW:99:ARG:HH12	2.34	0.50
38:BD:168:ARG:O	38:BD:169:GLU:HB2	2.11	0.50
40:BF:8:GLN:O	40:BF:9:ILE:C	2.55	0.50
40:BF:22:ALA:C	40:BF:24:LEU:N	2.69	0.50
41:BG:33:ARG:HH11	41:BG:33:ARG:HG2	1.77	0.50
41:BG:37:VAL:HG22	41:BG:159:VAL:HG12	1.94	0.50
42:BH:95:ARG:HH12	42:BH:97:ARG:HH11	1.60	0.50
42:BH:167:GLU:CD	42:BH:167:GLU:N	2.70	0.50
50:BS:48:LEU:HD12	50:BS:48:LEU:N	2.26	0.50
56:BY:87:LYS:O	56:BY:88:LYS:HB2	2.12	0.50
1:CA:4:U:P	4:CD:86:LYS:HD3	2.52	0.50
1:CA:243:A:H4'	1:CA:244:U:C5'	2.40	0.50
1:CA:824:C:H1'	8:CH:1:MET:HE2	1.94	0.50
1:CA:829:G:H2'	1:CA:830:G:H8	1.76	0.50
1:CA:985:C:H2'	1:CA:986:A:C8	2.47	0.50
1:CA:1225:A:C2	1:CA:1226:C:C4	3.00	0.50
1:CA:1370:G:H2'	1:CA:1371:G:H8	1.76	0.50
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.47	0.50
2:CB:80:ILE:HD11	2:CB:208:ILE:HG23	1.94	0.50
2:CB:121:LEU:HB3	2:CB:127:ILE:HD11	1.93	0.50
3:CC:116:VAL:O	3:CC:119:ARG:HB3	2.12	0.50
4:CD:125:HIS:C	4:CD:126:ILE:HD12	2.37	0.50
5:CE:84:PHE:HE2	5:CE:130:ASN:ND2	2.09	0.50
5:CE:148:VAL:O	5:CE:150:ARG:N	2.45	0.50
10:CJ:8:LEU:O	10:CJ:69:ASN:HA	2.12	0.50
10:CJ:96:ILE:H	10:CJ:96:ILE:CD1	2.12	0.50
12:CL:98:VAL:O	12:CL:101:VAL:HG23	2.11	0.50
13:CM:14:ARG:HA	13:CM:44:ARG:HA	1.94	0.50
13:CM:98:VAL:HG12	13:CM:99:ARG:N	2.27	0.50
27:D2:25:VAL:O	27:D2:26:ARG:C	2.54	0.50
31:D6:41:PRO:O	31:D6:45:LYS:HD2	2.12	0.50
32:D7:24:THR:HG23	32:D7:27:GLY:H	1.77	0.50
35:DA:90:U:O2'	35:DA:92:A:OP2	2.30	0.50
35:DA:144:C:H2'	35:DA:145:G:C8	2.46	0.50
35:DA:662:G:P	47:DP:18:ARG:HD2	2.50	0.50
35:DA:827:U:O2	35:DA:2246:G:H4'	2.12	0.50
35:DA:971:C:C2'	35:DA:972:G:H5'	2.42	0.50
35:DA:1188:U:C4'	53:DV:79:VAL:HG22	2.42	0.50
35:DA:1252:G:C2	35:DA:1253:A:C2	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1386:C:OP2	35:DA:1396:U:H5	1.95	0.50
35:DA:1884:A:C6	35:DA:1885:A:N7	2.80	0.50
35:DA:2767:C:H2'	35:DA:2768:C:C6	2.46	0.50
36:DB:17:C:C2'	36:DB:18:G:H5'	2.42	0.50
38:DD:148:GLU:HB2	38:DD:151:LYS:HD2	1.92	0.50
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.27	0.50
40:DF:136:THR:HG22	40:DF:140:LEU:CD2	2.41	0.50
41:DG:96:ARG:O	41:DG:97:ASP:C	2.54	0.50
41:DG:139:LEU:HD12	41:DG:140:ILE:HG23	1.93	0.50
43:DI:88:ILE:HG13	43:DI:89:TYR:N	2.25	0.50
47:DP:16:ARG:CZ	47:DP:16:ARG:HB2	2.42	0.50
47:DP:131:SER:OG	47:DP:134:ALA:HB2	2.12	0.50
49:DR:118:GLU:HA	49:DR:118:GLU:OE1	2.10	0.50
50:DS:17:ARG:CA	50:DS:20:ARG:HH22	2.25	0.50
50:DS:103:GLU:O	50:DS:105:ALA:N	2.45	0.50
51:DT:27:THR:HB	51:DT:87:ASP:HB3	1.94	0.50
52:DU:90:VAL:O	52:DU:91:ASP:C	2.55	0.50
53:DV:16:PRO:HG2	53:DV:17:GLY:H	1.76	0.50
54:DW:14:PRO:O	54:DW:15:ARG:C	2.52	0.50
1:AA:33:A:C2'	1:AA:34:C:C5'	2.90	0.49
1:AA:232:G:H1'	1:AA:262:A:N1	2.26	0.49
1:AA:449:C:O2	16:AP:42:ARG:HD2	2.12	0.49
1:AA:502:G:OP1	12:AL:114:ARG:N	2.45	0.49
1:AA:709:G:H2'	1:AA:710:G:H8	1.77	0.49
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.12	0.49
2:AB:121:LEU:HB3	2:AB:127:ILE:HD11	1.93	0.49
3:AC:76:VAL:CG2	3:AC:77:ILE:HG13	2.42	0.49
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.76	0.49
6:AF:97:PHE:HB3	18:AR:32:ARG:HG3	1.94	0.49
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.08	0.49
15:AO:36:ILE:HG22	15:AO:37:ASN:HD22	1.77	0.49
22:AV:1:C:H42	22:AV:72:A:N6	2.05	0.49
22:AV:54:U:O4	22:AV:58:A:C8	2.65	0.49
24:AY:4:ASP:C	24:AY:5:TYR:CD2	2.90	0.49
26:B1:83:GLU:HG3	26:B1:84:GLY:H	1.77	0.49
28:B3:52:HIS:CG	36:BB:83:G:H4'	2.47	0.49
35:BA:271(G):C:H2'	35:BA:271(H):G:C8	2.47	0.49
35:BA:419:C:H2'	35:BA:420:C:H6	1.77	0.49
35:BA:524:U:H2'	35:BA:525:U:C6	2.47	0.49
35:BA:775:G:O2'	35:BA:776:G:OP1	2.30	0.49
35:BA:1338:G:O2'	35:BA:1339:G:H5'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1346:G:C3'	35:BA:1347:G:H5''	2.42	0.49
35:BA:1475:G:H2'	35:BA:1475:G:N3	2.26	0.49
35:BA:2201:C:O2'	35:BA:2202:C:H5'	2.12	0.49
35:BA:2648:C:H2'	35:BA:2649:U:C6	2.47	0.49
35:BA:2821:A:H2'	35:BA:2822:G:C8	2.47	0.49
35:BA:2892:A:H2'	35:BA:2893:G:O4'	2.11	0.49
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.93	0.49
36:BB:83:G:O2'	36:BB:84:C:H5'	2.11	0.49
38:BD:113:VAL:C	38:BD:115:GLN:H	2.20	0.49
39:BE:119:ARG:CD	39:BE:120:TRP:NE1	2.75	0.49
40:BF:132:VAL:HG13	40:BF:133:ASN:H	1.77	0.49
42:BH:122:THR:C	42:BH:133:VAL:HG13	2.37	0.49
42:BH:156:ALA:C	42:BH:158:HIS:N	2.66	0.49
43:BI:102:SER:HB3	43:BI:108:THR:O	2.12	0.49
47:BP:101:VAL:HG12	47:BP:107:LYS:H	1.77	0.49
48:BQ:133:ARG:CG	48:BQ:134:ARG:N	2.69	0.49
52:BU:90:VAL:O	52:BU:91:ASP:C	2.55	0.49
53:BV:15:GLU:O	53:BV:96:ILE:HG21	2.12	0.49
56:BY:31:LEU:CB	56:BY:32:PRO:HA	2.41	0.49
56:BY:97:ARG:NH2	56:BY:98:VAL:HB	2.26	0.49
56:BY:101:LYS:CG	56:BY:102:CYS:N	2.69	0.49
57:BZ:153:SER:O	57:BZ:154:ASP:OD1	2.29	0.49
1:CA:59:A:H5'	1:CA:60:A:C5'	2.42	0.49
1:CA:376:G:H5''	16:CP:5:ARG:HB2	1.94	0.49
1:CA:563:A:HO2'	1:CA:567:G:H8	1.59	0.49
1:CA:902:G:H2'	1:CA:903:G:H8	1.77	0.49
1:CA:1118:C:O5'	1:CA:1118:C:H6	1.94	0.49
1:CA:1507:A:C2	1:CA:1508:G:C5	3.00	0.49
2:CB:74:LYS:HD3	2:CB:165:VAL:HB	1.94	0.49
2:CB:107:THR:C	2:CB:109:SER:N	2.70	0.49
7:CG:115:ARG:HB2	7:CG:118:VAL:CG2	2.38	0.49
9:CI:79:LEU:HD12	9:CI:103:THR:O	2.12	0.49
17:CQ:87:LYS:HB3	17:CQ:87:LYS:HZ2	1.77	0.49
22:CV:5:G:N2	22:CV:69:C:C2	2.80	0.49
25:D0:5:LYS:HD3	48:DQ:81:VAL:HG12	1.94	0.49
27:D2:25:VAL:HG21	27:D2:61:LEU:HD13	1.94	0.49
35:DA:363(F):A:HO2'	35:DA:364:C:H5	1.58	0.49
35:DA:652:C:O2	35:DA:652:C:H3'	2.12	0.49
35:DA:843:G:O2'	35:DA:844:C:H5'	2.11	0.49
35:DA:1963:U:O2	35:DA:1963:U:C2'	2.59	0.49
35:DA:2103:C:C2'	35:DA:2104:G:H5''	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2106:G:H22	35:DA:2183:C:H1'	1.77	0.49
35:DA:2761:G:H2'	35:DA:2762:G:H5''	1.93	0.49
39:DE:47:VAL:O	39:DE:80:GLU:HA	2.12	0.49
40:DF:137:LYS:CA	40:DF:140:LEU:HD23	2.42	0.49
41:DG:131:TYR:O	41:DG:159:VAL:N	2.35	0.49
42:DH:15:VAL:HA	42:DH:27:LYS:O	2.12	0.49
43:DI:129:THR:HG22	43:DI:130:TYR:N	2.23	0.49
47:DP:34:GLY:O	47:DP:35:HIS:CB	2.60	0.49
57:DZ:40:ASP:O	57:DZ:44:PHE:CB	2.60	0.49
57:DZ:137:ILE:HG22	57:DZ:137:ILE:O	2.12	0.49
1:AA:33:A:O2'	1:AA:34:C:H5''	2.10	0.49
1:AA:318:G:H2'	1:AA:319:G:C8	2.46	0.49
1:AA:552:U:O2	12:AL:28:PRO:HB3	2.12	0.49
1:AA:1004:A:H61	1:AA:1034:G:C2'	2.16	0.49
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.93	0.49
1:AA:1128:C:H1'	1:AA:1146:A:N6	2.24	0.49
3:AC:75:VAL:HG12	3:AC:83:ARG:HD3	1.93	0.49
8:AH:19:VAL:CG2	8:AH:21:LYS:HG3	2.41	0.49
11:AK:57:THR:HG23	11:AK:60:ALA:CB	2.42	0.49
12:AL:25:LYS:CD	12:AL:30:ARG:HH22	2.25	0.49
12:AL:44:LYS:HB3	12:AL:45:PRO:HD3	1.94	0.49
16:AP:82:GLN:O	16:AP:83:GLU:HB2	2.10	0.49
22:AW:20:U:H5	22:AW:59:A:H61	1.60	0.49
27:B2:70:GLN:HG2	27:B2:71:ASN:ND2	2.27	0.49
32:B7:40:TRP:CZ3	35:BA:459:U:H4'	2.47	0.49
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.42	0.49
35:BA:39:C:H2'	35:BA:40:C:C6	2.47	0.49
35:BA:221:A:N6	35:BA:265:A:H8	2.10	0.49
35:BA:315:G:H2'	35:BA:316:C:C6	2.48	0.49
35:BA:1531:C:C6	35:BA:1531:C:C3'	2.95	0.49
35:BA:1862:G:H2'	35:BA:1863:G:H8	1.78	0.49
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.47	0.49
35:BA:2308:G:C2	35:BA:2309:A:N1	2.80	0.49
35:BA:2767:C:H2'	35:BA:2768:C:C6	2.46	0.49
39:BE:51:PHE:CD1	39:BE:51:PHE:C	2.91	0.49
40:BF:118:ALA:HB2	40:BF:123:LEU:HD23	1.93	0.49
41:BG:72:ARG:HG2	41:BG:86:MET:CA	2.42	0.49
41:BG:100:TRP:C	41:BG:102:PHE:N	2.69	0.49
43:BI:61:ARG:N	43:BI:61:ARG:CD	2.74	0.49
51:BT:30:VAL:CG1	51:BT:84:GLN:HB2	2.42	0.49
55:BX:65:ARG:HG2	55:BX:65:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:644:G:C3'	1:CA:645:C:H5''	2.32	0.49
1:CA:644:G:C5'	8:CH:92:ARG:HH21	2.26	0.49
1:CA:841:U:H3'	1:CA:848:C:H5'	1.93	0.49
1:CA:1263:C:H42	1:CA:1272:G:H1	1.60	0.49
2:CB:39:ILE:HG22	2:CB:40:HIS:N	2.27	0.49
3:CC:75:VAL:HG12	3:CC:83:ARG:HD3	1.92	0.49
3:CC:87:LEU:C	3:CC:89:GLU:N	2.70	0.49
3:CC:90:GLU:O	3:CC:93:LYS:HB3	2.12	0.49
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.27	0.49
7:CG:14:PRO:HG3	7:CG:21:VAL:HG13	1.95	0.49
7:CG:25:ALA:O	7:CG:28:ASN:HB2	2.11	0.49
7:CG:138:LYS:O	7:CG:142:GLU:HG3	2.12	0.49
10:CJ:50:ILE:CA	10:CJ:60:ARG:HD3	2.40	0.49
13:CM:37:THR:OG1	13:CM:39:ILE:HD13	2.12	0.49
20:CT:62:LEU:HA	20:CT:65:LYS:HB2	1.92	0.49
21:CU:24:ARG:HG2	21:CU:24:ARG:NH1	2.25	0.49
22:CW:41:C:H2'	22:CW:42:G:C8	2.43	0.49
24:CY:6:GLY:CA	24:CY:7:HIS:ND1	2.74	0.49
25:D0:66:VAL:CG1	25:D0:67:VAL:N	2.73	0.49
28:D3:36:VAL:O	28:D3:36:VAL:HG23	2.12	0.49
29:D4:18:CYS:SG	29:D4:36:CYS:HB3	2.53	0.49
29:D4:35:VAL:CG1	29:D4:36:CYS:N	2.76	0.49
32:D7:43:THR:HG23	32:D7:44:PRO:CD	2.40	0.49
35:DA:221:A:H61	35:DA:265:A:H8	1.58	0.49
35:DA:631:A:H8	35:DA:631:A:O5'	1.95	0.49
35:DA:954:G:O2'	35:DA:955:C:H5'	2.12	0.49
35:DA:1416:G:H1'	35:DA:1417:C:C5	2.47	0.49
35:DA:1433:U:O2	35:DA:1561:G:C2	2.65	0.49
35:DA:1502:C:H2'	35:DA:1503:U:C6	2.48	0.49
35:DA:2173:A:H2'	35:DA:2174:C:H5'	1.94	0.49
35:DA:2761:G:C2'	35:DA:2762:G:H5''	2.42	0.49
37:DC:85:GLU:HG2	37:DC:153:ILE:CB	2.43	0.49
41:DG:47:LYS:HZ1	41:DG:81:LYS:NZ	2.09	0.49
43:DI:77:LEU:HD22	43:DI:140:LEU:CD2	2.42	0.49
45:DN:62:VAL:CG2	45:DN:66:LYS:HD2	2.43	0.49
46:DO:40:VAL:HG12	46:DO:41:ALA:N	2.27	0.49
47:DP:17:LYS:O	47:DP:17:LYS:HG3	2.10	0.49
47:DP:41:ARG:N	47:DP:41:ARG:HD2	2.28	0.49
57:DZ:106:GLY:HA2	57:DZ:142:SER:OG	2.11	0.49
57:DZ:182:LYS:O	57:DZ:184:ALA:N	2.45	0.49
2:AB:208:ILE:O	2:AB:211:ILE:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:155:GLY:HA3	3:AC:164:ARG:O	2.13	0.49
3:AC:181:ASN:ND2	3:AC:204:LEU:HD12	2.27	0.49
4:AD:76:ARG:HH11	4:AD:76:ARG:CB	2.11	0.49
5:AE:71:LEU:HD12	5:AE:71:LEU:H	1.76	0.49
11:AK:88:GLY:C	11:AK:90:GLY:N	2.61	0.49
12:AL:2:PRO:HA	12:AL:6:GLN:NE2	2.27	0.49
24:AY:31:THR:O	24:AY:32:PRO:O	2.30	0.49
26:B1:19:GLN:HE21	35:BA:2081:C:P	2.36	0.49
32:B7:47:ARG:HB2	32:B7:48:LYS:HZ1	1.73	0.49
34:B9:22:ARG:HH12	35:BA:2741:A:H5''	1.77	0.49
35:BA:287:C:H2'	35:BA:288:C:H6	1.76	0.49
35:BA:1533:G:O2'	35:BA:1543:C:H5''	2.12	0.49
38:BD:210:GLY:C	38:BD:212:SER:N	2.68	0.49
39:BE:132:HIS:HD2	39:BE:135:HIS:NE2	2.04	0.49
41:BG:7:LEU:HG	41:BG:104:GLU:HB2	1.93	0.49
42:BH:23:ARG:HG3	42:BH:25:LYS:HZ2	1.77	0.49
45:BN:24:GLY:HA2	45:BN:27:ALA:CB	2.42	0.49
47:BP:115:LEU:HD23	47:BP:115:LEU:N	2.23	0.49
49:BR:96:ARG:NH2	49:BR:118:GLU:H	2.11	0.49
51:BT:31:SER:OG	51:BT:32:TYR:N	2.45	0.49
56:BY:14:LEU:CD1	56:BY:15:VAL:H	2.23	0.49
1:CA:624:C:H4'	16:CP:10:GLY:CA	2.41	0.49
1:CA:1004:A:H61	1:CA:1034:G:C2'	2.21	0.49
1:CA:1038:C:H2'	1:CA:1039:C:O4'	2.12	0.49
1:CA:1469:G:H2'	1:CA:1470:G:H8	1.78	0.49
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.95	0.49
4:CD:67:ILE:HG22	4:CD:68:TYR:N	2.26	0.49
5:CE:36:ASP:OD1	5:CE:38:GLN:N	2.37	0.49
9:CI:16:ARG:HH11	9:CI:16:ARG:HG2	1.78	0.49
17:CQ:76:LEU:HD21	17:CQ:79:SER:HB2	1.93	0.49
25:D0:36:ILE:HD12	25:D0:36:ILE:C	2.37	0.49
31:D6:11:LEU:HG	31:D6:26:ASN:OD1	2.12	0.49
35:DA:41:C:H2'	35:DA:42:G:O4'	2.12	0.49
35:DA:271(V):G:C2	35:DA:271(W):G:H1'	2.46	0.49
35:DA:405:U:H3'	35:DA:406:G:H5'	1.93	0.49
35:DA:491:G:H2'	35:DA:492:A:C8	2.46	0.49
35:DA:874:G:O2'	35:DA:875:G:H5'	2.12	0.49
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.74	0.49
40:DF:178:PRO:HG2	40:DF:179:GLU:OE2	2.11	0.49
43:DI:7:GLU:CD	43:DI:7:GLU:H	2.19	0.49
43:DI:131:LYS:HD3	43:DI:135:GLU:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:36:GLY:HA3	45:DN:48:MET:HE1	1.94	0.49
47:DP:10:PRO:CD	47:DP:11:GLY:N	2.73	0.49
50:DS:106:ARG:HD2	50:DS:106:ARG:C	2.37	0.49
51:DT:28:VAL:O	51:DT:29:ARG:HB2	2.11	0.49
55:DX:8:ILE:CD1	55:DX:42:ALA:HB1	2.42	0.49
1:AA:300:A:H1'	1:AA:565:U:O2	2.12	0.49
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.77	0.49
1:AA:1225:A:OP1	13:AM:102:ARG:HA	2.12	0.49
2:AB:111:ARG:NH2	2:AB:114:ARG:HG2	2.27	0.49
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.42	0.49
14:AN:29:ARG:HB3	14:AN:33:VAL:CG1	2.42	0.49
16:AP:50:LYS:HD2	16:AP:51:VAL:N	2.26	0.49
18:AR:86:VAL:HG12	18:AR:87:ARG:H	1.77	0.49
21:AU:6:ARG:NH2	21:AU:15:ARG:NH2	2.52	0.49
35:BA:207:A:H2'	35:BA:208:C:O4'	2.11	0.49
35:BA:241:A:N1	35:BA:255:A:H5''	2.27	0.49
35:BA:303:U:H2'	35:BA:304:G:C8	2.45	0.49
35:BA:604:G:O2'	35:BA:605:C:H5'	2.12	0.49
35:BA:708:C:H42	35:BA:723:G:H1	1.58	0.49
35:BA:816:C:HO2'	35:BA:817:C:H5'	1.77	0.49
35:BA:1963:U:C2'	35:BA:1963:U:O2	2.60	0.49
35:BA:2064:C:H2'	35:BA:2065:C:C6	2.47	0.49
35:BA:2135:A:C2	35:BA:2157:G:H4'	2.48	0.49
35:BA:2505:G:O6	35:BA:2576:G:H2'	2.13	0.49
35:BA:2553:G:H3'	35:BA:2554:U:H5''	1.94	0.49
35:BA:2720:U:H3'	35:BA:2721:A:H8	1.77	0.49
35:BA:2849:U:OP2	51:BT:95:ARG:NH1	2.45	0.49
37:BC:24:GLU:O	37:BC:25:ALA:HB2	2.10	0.49
38:BD:11:PRO:O	38:BD:13:ARG:N	2.44	0.49
38:BD:133:LEU:O	38:BD:135:PHE:N	2.45	0.49
39:BE:1:MET:HE2	39:BE:83:ASP:O	2.12	0.49
41:BG:83:ARG:HG3	41:BG:83:ARG:NH1	2.25	0.49
45:BN:2:LYS:O	45:BN:4:TYR:CZ	2.65	0.49
45:BN:61:ARG:HA	45:BN:61:ARG:NE	2.28	0.49
48:BQ:60:ARG:HG3	48:BQ:60:ARG:HH11	1.77	0.49
49:BR:100:LEU:HD13	49:BR:112:ALA:CA	2.34	0.49
51:BT:28:VAL:O	51:BT:29:ARG:HB2	2.10	0.49
57:BZ:96:VAL:HG22	57:BZ:97:GLU:N	2.27	0.49
1:CA:78:G:H2'	1:CA:79:G:H4'	1.94	0.49
1:CA:568:G:O6	12:CL:2:PRO:HG3	2.12	0.49
1:CA:673:G:C5'	6:CF:87:ARG:HE	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:751:U:H2'	1:CA:752:G:O4'	2.12	0.49
1:CA:773:G:O2'	1:CA:774:G:H5'	2.12	0.49
1:CA:914:A:O2'	1:CA:915:A:H5'	2.12	0.49
1:CA:969:A:H2'	1:CA:970:C:O4'	2.12	0.49
2:CB:29:ALA:O	2:CB:32:ILE:HG22	2.12	0.49
2:CB:193:ASP:HB2	2:CB:194:PRO:HD2	1.93	0.49
3:CC:62:ASP:HA	3:CC:97:LYS:HE2	1.95	0.49
5:CE:6:PHE:HB2	5:CE:34:VAL:HG22	1.93	0.49
12:CL:70:GLU:O	12:CL:71:GLY:O	2.30	0.49
13:CM:13:LYS:O	13:CM:14:ARG:C	2.55	0.49
13:CM:69:GLU:HG2	13:CM:72:ALA:HB3	1.94	0.49
17:CQ:3:LYS:O	17:CQ:4:LYS:C	2.55	0.49
22:CV:4:G:O2'	22:CV:5:G:O5'	2.31	0.49
25:D0:2:ALA:HB2	35:DA:2452:C:OP1	2.11	0.49
26:D1:69:LYS:O	26:D1:73:LEU:HB2	2.12	0.49
27:D2:19:VAL:O	27:D2:23:LYS:HG3	2.12	0.49
27:D2:46:GLN:HA	27:D2:46:GLN:OE1	2.11	0.49
35:DA:271(Q):G:O2'	35:DA:271(R):G:P	2.70	0.49
35:DA:773:U:H4'	38:DD:47:GLY:HA3	1.93	0.49
35:DA:1039:G:O2'	35:DA:1040:C:H5'	2.12	0.49
35:DA:1988:C:O2'	35:DA:1989:G:H5'	2.12	0.49
35:DA:2310:A:O2'	35:DA:2311:A:C5'	2.61	0.49
35:DA:2473:U:C3'	35:DA:2475:C:N4	2.74	0.49
38:DD:166:GLN:HE21	38:DD:166:GLN:HA	1.76	0.49
39:DE:4:ILE:HG12	39:DE:5:LEU:N	2.28	0.49
39:DE:8:LYS:HZ3	39:DE:188:VAL:HG13	1.77	0.49
43:DI:31:LEU:HB2	43:DI:32:PRO:HD3	1.94	0.49
51:DT:13:ARG:HA	51:DT:13:ARG:HH11	1.71	0.49
55:DX:18:TYR:C	55:DX:20:GLY:N	2.67	0.49
56:DY:14:LEU:CG	56:DY:15:VAL:N	2.74	0.49
56:DY:84:ARG:NH1	56:DY:97:ARG:HA	2.27	0.49
56:DY:95:LYS:HZ3	56:DY:99:CYS:N	2.07	0.49
56:DY:99:CYS:O	56:DY:100:ALA:CB	2.60	0.49
57:DZ:147:GLY:O	57:DZ:148:ASP:C	2.55	0.49
1:AA:67:C:H2'	1:AA:68:G:H8	1.75	0.49
1:AA:243:A:H4'	1:AA:244:U:C5'	2.39	0.49
1:AA:644:G:C4'	8:AH:92:ARG:HH21	2.24	0.49
1:AA:684:A:H2'	1:AA:685:G:C8	2.47	0.49
1:AA:1371:G:OP1	9:AI:11:LYS:HG2	2.11	0.49
3:AC:147:LYS:HG3	3:AC:204:LEU:HA	1.94	0.49
9:AI:5:TYR:HE2	9:AI:16:ARG:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:8:GLY:O	9:AI:14:VAL:HA	2.13	0.49
10:AJ:61:GLU:HB2	14:AN:58:LYS:HE2	1.94	0.49
11:AK:28:THR:O	11:AK:44:SER:HB2	2.12	0.49
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.95	0.49
22:AV:61:C:O2'	22:AV:62:C:H5'	2.12	0.49
23:AX:16:A:HO2'	23:AX:17:U:C5'	2.19	0.49
29:B4:9:LEU:O	29:B4:10:VAL:HG13	2.12	0.49
33:B8:46:ARG:HH21	35:BA:631:A:P	2.35	0.49
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.12	0.49
35:BA:2709:G:O2'	35:BA:2710:C:H5'	2.13	0.49
35:BA:2789:C:N3	35:BA:2894:G:O6	2.46	0.49
36:BB:106:G:H5''	57:BZ:31:ARG:HB3	1.94	0.49
38:BD:24:ILE:O	38:BD:25:THR:C	2.54	0.49
38:BD:28:GLU:N	38:BD:29:PRO:HD2	2.26	0.49
41:BG:39:ILE:HG23	41:BG:92:VAL:HG13	1.94	0.49
41:BG:39:ILE:CG1	41:BG:155:MET:HG3	2.42	0.49
41:BG:138:GLN:HE22	41:BG:153:ARG:HD3	1.77	0.49
42:BH:163:TYR:N	42:BH:163:TYR:CD1	2.80	0.49
43:BI:109:ILE:HG12	43:BI:110:ASP:N	2.27	0.49
48:BQ:1:MET:O	48:BQ:2:LEU:CB	2.60	0.49
48:BQ:132:VAL:HB	48:BQ:137:TYR:OH	2.12	0.49
50:BS:103:GLU:O	50:BS:105:ALA:N	2.45	0.49
51:BT:30:VAL:HG21	51:BT:83:ILE:HG13	1.95	0.49
53:BV:19:LYS:HD3	53:BV:22:VAL:HG11	1.94	0.49
53:BV:28:GLU:HB3	53:BV:29:PRO:HD2	1.94	0.49
54:BW:10:VAL:HG12	54:BW:12:ILE:HG22	1.94	0.49
1:CA:182:U:O2	1:CA:182:U:O4'	2.29	0.49
1:CA:224:C:H2'	1:CA:225:C:H6	1.74	0.49
1:CA:401:C:OP2	4:CD:73:ARG:NH2	2.43	0.49
1:CA:719:C:O2'	18:CR:49:LYS:HB3	2.12	0.49
1:CA:779:C:O2'	1:CA:780:A:H5'	2.11	0.49
1:CA:1429:C:H2'	1:CA:1430:C:C5	2.47	0.49
1:CA:1507:A:H2'	1:CA:1508:G:C8	2.48	0.49
2:CB:193:ASP:O	2:CB:196:LEU:HG	2.13	0.49
3:CC:88:ARG:O	3:CC:99:VAL:HG11	2.11	0.49
5:CE:107:ARG:C	5:CE:109:ILE:H	2.19	0.49
6:CF:8:ILE:HG22	6:CF:10:LEU:CD1	2.42	0.49
7:CG:111:ARG:HB3	7:CG:113:GLU:HG2	1.94	0.49
8:CH:97:VAL:O	8:CH:100:ILE:HG13	2.13	0.49
9:CI:47:LEU:HD12	9:CI:47:LEU:N	2.28	0.49
10:CJ:13:HIS:HD2	10:CJ:14:LYS:HG2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.28	0.49
22:CV:29:G:C6	22:CV:42:G:C6	3.01	0.49
26:D1:60:PHE:CD1	26:D1:91:LYS:HE3	2.47	0.49
35:DA:65:C:H2'	35:DA:66:C:C6	2.45	0.49
35:DA:221:A:N6	35:DA:265:A:H8	2.10	0.49
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.47	0.49
35:DA:2470:G:C6	35:DA:2471:C:C5	3.01	0.49
35:DA:2473:U:H5''	35:DA:2475:C:H41	1.61	0.49
41:DG:25:TYR:CD2	41:DG:31:VAL:HG22	2.35	0.49
42:DH:23:ARG:HG3	42:DH:25:LYS:HZ2	1.78	0.49
42:DH:41:MET:CE	42:DH:54:ARG:HA	2.42	0.49
42:DH:45:VAL:HA	42:DH:50:VAL:HG22	1.95	0.49
46:DO:71:ARG:NE	46:DO:105:GLU:OE2	2.43	0.49
47:DP:24:GLY:O	47:DP:25:SER:HB2	2.13	0.49
47:DP:70:GLN:C	47:DP:72:PRO:HD2	2.37	0.49
51:DT:29:ARG:HB2	51:DT:85:LYS:NZ	2.27	0.49
1:AA:1005:A:H62	1:AA:1024:G:H4'	1.78	0.49
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.76	0.49
2:AB:80:ILE:HD11	2:AB:208:ILE:HG23	1.95	0.49
2:AB:141:GLU:O	2:AB:145:LEU:HD23	2.12	0.49
3:AC:52:LEU:H	3:AC:52:LEU:CD2	2.15	0.49
4:AD:11:LEU:N	4:AD:11:LEU:HD23	2.28	0.49
4:AD:18:LYS:NZ	4:AD:31:CYS:HB3	2.28	0.49
9:AI:15:ALA:HB2	9:AI:65:VAL:HB	1.93	0.49
9:AI:47:LEU:HD12	9:AI:47:LEU:N	2.27	0.49
9:AI:111:ARG:CG	9:AI:112:LYS:N	2.65	0.49
15:AO:36:ILE:HG22	15:AO:37:ASN:N	2.27	0.49
30:B5:2:ALA:CA	35:BA:2015:A:H1'	2.40	0.49
34:B9:30:PRO:HB2	35:BA:2527:C:C5'	2.42	0.49
35:BA:241:A:H5'	35:BA:243:U:H1'	1.93	0.49
35:BA:1188:U:C4'	53:BV:79:VAL:HG22	2.42	0.49
35:BA:1528:A:O2'	35:BA:1528(A):A:H5'	2.12	0.49
35:BA:1652:A:O2'	35:BA:1653:G:H5'	2.13	0.49
35:BA:2030:A:H5''	35:BA:2031:A:OP1	2.12	0.49
35:BA:2173:A:H2'	35:BA:2174:C:H5'	1.94	0.49
35:BA:2343:C:O2'	35:BA:2344:U:H5'	2.13	0.49
35:BA:2418:A:H2'	35:BA:2419:U:H6	1.78	0.49
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.47	0.49
38:BD:185:VAL:HG12	38:BD:186:HIS:N	2.26	0.49
38:BD:271:ILE:O	38:BD:272:ALA:HB2	2.11	0.49
39:BE:75:VAL:C	39:BE:77:ILE:N	2.68	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:41:GLN:CB	41:BG:43:LEU:HD13	2.43	0.49
41:BG:58:GLN:CD	41:BG:59:GLU:N	2.71	0.49
41:BG:102:PHE:O	41:BG:103:LEU:C	2.56	0.49
42:BH:109:PHE:O	42:BH:111:HIS:N	2.41	0.49
43:BI:129:THR:HG22	43:BI:130:TYR:N	2.22	0.49
46:BO:7:TYR:HE1	46:BO:20:MET:HE3	1.78	0.49
47:BP:57:THR:CG2	47:BP:59:LEU:HB3	2.42	0.49
49:BR:14:SER:O	49:BR:15:SER:C	2.56	0.49
50:BS:17:ARG:HA	50:BS:20:ARG:HH22	1.76	0.49
51:BT:12:SER:O	51:BT:13:ARG:NH2	2.46	0.49
51:BT:23:ARG:O	51:BT:25:GLY:N	2.38	0.49
53:BV:21:ARG:HG2	53:BV:91:TYR:CD2	2.48	0.49
53:BV:61:VAL:O	53:BV:61:VAL:HG23	2.11	0.49
1:CA:555:C:H2'	1:CA:556:C:C6	2.46	0.49
2:CB:53:ARG:HA	2:CB:56:ARG:CG	2.41	0.49
2:CB:144:ARG:HA	2:CB:147:LYS:CB	2.42	0.49
3:CC:147:LYS:HG3	3:CC:204:LEU:HA	1.95	0.49
4:CD:8:VAL:HG11	4:CD:115:ARG:CZ	2.43	0.49
4:CD:18:LYS:NZ	4:CD:31:CYS:HB3	2.27	0.49
4:CD:93:PHE:CE2	4:CD:97:LEU:HD21	2.47	0.49
10:CJ:32:ALA:H	10:CJ:78:ASN:HD21	1.60	0.49
10:CJ:51:ARG:H	10:CJ:60:ARG:CB	2.25	0.49
13:CM:14:ARG:H	13:CM:44:ARG:HH11	1.60	0.49
27:D2:43:GLN:O	27:D2:45:SER:N	2.46	0.49
27:D2:48:HIS:ND1	35:DA:95:G:O2'	2.45	0.49
29:D4:35:VAL:HG21	41:DG:113:ARG:NE	2.27	0.49
30:D5:16:ARG:HH11	30:D5:16:ARG:HG2	1.77	0.49
35:DA:272(E):G:C2	35:DA:364:C:N3	2.81	0.49
35:DA:306:U:H2'	35:DA:307:G:O4'	2.12	0.49
35:DA:652:C:O2	35:DA:652:C:C3'	2.60	0.49
35:DA:926:A:H5'	35:DA:926:A:C8	2.45	0.49
35:DA:1835:G:H2'	35:DA:1836:C:H6	1.77	0.49
35:DA:2308:G:C2	35:DA:2309:A:N1	2.80	0.49
38:DD:142:VAL:HA	38:DD:194:GLY:H	1.77	0.49
38:DD:185:VAL:HG12	38:DD:186:HIS:H	1.77	0.49
39:DE:90:THR:HG22	39:DE:91:VAL:N	2.28	0.49
40:DF:15:SER:O	40:DF:16:GLY:O	2.31	0.49
40:DF:20:LEU:HG	40:DF:23:ASP:OD2	2.13	0.49
42:DH:94:TYR:CE1	42:DH:160:LYS:HG2	2.48	0.49
42:DH:109:PHE:O	42:DH:111:HIS:N	2.41	0.49
48:DQ:131:ILE:HG22	48:DQ:132:VAL:N	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:49:ASP:O	49:DR:51:LEU:N	2.46	0.49
51:DT:100:TYR:HD2	51:DT:103:ARG:NH2	2.06	0.49
52:DU:91:ASP:OD1	52:DU:96:ALA:HB2	2.13	0.49
57:DZ:181:GLU:HG2	57:DZ:181:GLU:O	2.11	0.49
1:AA:109:A:C6	1:AA:326:G:C6	3.01	0.49
1:AA:582:U:H2'	1:AA:583:A:C8	2.47	0.49
1:AA:1038:C:H2'	1:AA:1039:C:O4'	2.13	0.49
1:AA:1123:A:C4'	10:AJ:36:GLY:HA3	2.42	0.49
2:AB:174:VAL:O	2:AB:178:ARG:HG2	2.12	0.49
3:AC:134:ILE:HD11	3:AC:153:VAL:CG2	2.42	0.49
4:AD:20:TYR:CD2	4:AD:26:CYS:HB3	2.48	0.49
4:AD:133:VAL:CG1	4:AD:135:LEU:HD22	2.33	0.49
5:AE:123:LEU:O	5:AE:124:GLY:C	2.56	0.49
18:AR:74:ARG:HH21	18:AR:81:PHE:HA	1.78	0.49
19:AS:53:ASN:O	19:AS:77:THR:HG22	2.12	0.49
20:AT:44:ALA:HB3	20:AT:91:LEU:HD12	1.94	0.49
26:B1:34:THR:CG2	26:B1:36:GLY:H	2.25	0.49
28:B3:36:VAL:HG23	28:B3:36:VAL:O	2.12	0.49
33:B8:61:LEU:C	33:B8:63:PRO:CD	2.85	0.49
35:BA:1044:G:O2'	35:BA:1111:A:N6	2.45	0.49
35:BA:1582:C:H2'	35:BA:1583:A:C8	2.47	0.49
35:BA:2157:G:O2'	35:BA:2158:A:H5'	2.13	0.49
35:BA:2162:G:O2'	35:BA:2163:C:H5'	2.12	0.49
35:BA:2822:G:H2'	35:BA:2823:A:H5''	1.95	0.49
35:BA:2875:C:H4'	51:BT:5:ALA:HB2	1.94	0.49
37:BC:46:LYS:HB2	37:BC:46:LYS:HZ3	1.76	0.49
37:BC:192:PHE:HA	37:BC:196:LEU:CB	2.43	0.49
39:BE:47:VAL:O	39:BE:80:GLU:HA	2.12	0.49
39:BE:203:LYS:CE	39:BE:204:ALA:HB2	2.34	0.49
40:BF:152:GLU:OE1	40:BF:191:ARG:HD2	2.12	0.49
41:BG:114:ILE:O	41:BG:116:ASP:N	2.46	0.49
47:BP:147:LEU:C	47:BP:149:GLU:H	2.21	0.49
48:BQ:51:ARG:HG2	48:BQ:51:ARG:NH1	2.27	0.49
48:BQ:70:PRO:HA	48:BQ:94:VAL:O	2.13	0.49
49:BR:49:ASP:OD1	49:BR:95:THR:HB	2.13	0.49
51:BT:6:LEU:O	51:BT:10:VAL:HG23	2.11	0.49
52:BU:91:ASP:OD2	52:BU:96:ALA:HB2	2.12	0.49
53:BV:19:LYS:HZ3	53:BV:20:LEU:N	2.02	0.49
57:BZ:166:SER:OG	57:BZ:167:PRO:HA	2.13	0.49
1:CA:10:A:C2'	1:CA:11:G:C5'	2.84	0.49
1:CA:106:C:H2'	1:CA:107:G:C8	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:439:A:C2'	1:CA:441:A:H5'	2.42	0.49
1:CA:979:C:C2'	1:CA:980:C:H5''	2.42	0.49
1:CA:1465:C:H2'	1:CA:1466:C:C6	2.47	0.49
2:CB:95:GLN:HG3	2:CB:147:LYS:HG2	1.95	0.49
5:CE:12:LEU:HD13	5:CE:12:LEU:N	2.27	0.49
8:CH:109:ILE:HD11	8:CH:120:THR:HB	1.95	0.49
10:CJ:10:GLY:HA3	10:CJ:16:LEU:HD23	1.94	0.49
12:CL:80:VAL:HG22	12:CL:81:LEU:N	2.26	0.49
15:CO:36:ILE:HD12	15:CO:63:ARG:HD2	1.94	0.49
15:CO:64:ARG:HG3	15:CO:64:ARG:NH1	2.27	0.49
22:CV:36:U:H2'	22:CV:37:A:H5''	1.92	0.49
29:D4:14:ILE:HD13	29:D4:22:ILE:O	2.13	0.49
29:D4:54:GLY:C	29:D4:56:VAL:H	2.20	0.49
35:DA:28:A:N6	35:DA:512:G:H1'	2.28	0.49
35:DA:241:A:N1	35:DA:255:A:H5''	2.28	0.49
35:DA:528:A:C2	35:DA:2043:C:C5'	2.95	0.49
35:DA:580:C:H2'	35:DA:581:C:C6	2.48	0.49
35:DA:958:U:OP2	48:DQ:14:ARG:NH1	2.45	0.49
35:DA:1005:C:H2'	35:DA:1006:C:C6	2.48	0.49
35:DA:1543:C:H3'	35:DA:1543:C:H6	1.57	0.49
35:DA:1679:U:C2'	35:DA:1680:U:H5'	2.43	0.49
35:DA:1798:U:H5'	38:DD:259:THR:OG1	2.13	0.49
35:DA:2228:G:H2'	35:DA:2229:C:C6	2.47	0.49
35:DA:2243:U:H2'	35:DA:2244:U:C6	2.46	0.49
37:DC:50:ASP:N	37:DC:51:PRO:HD3	2.28	0.49
38:DD:24:ILE:O	38:DD:25:THR:O	2.29	0.49
38:DD:198:ASN:C	38:DD:198:ASN:HD22	2.20	0.49
39:DE:119:ARG:CD	39:DE:120:TRP:CE2	2.96	0.49
41:DG:27:ASN:HD22	41:DG:28:VAL:H	1.61	0.49
43:DI:76:THR:HA	43:DI:141:LYS:NZ	2.27	0.49
47:DP:101:VAL:CG1	47:DP:106:LEU:HD23	2.41	0.49
51:DT:3:ARG:C	51:DT:5:ALA:H	2.20	0.49
51:DT:30:VAL:HG21	51:DT:83:ILE:HG13	1.94	0.49
53:DV:5:VAL:HG21	53:DV:35:LEU:HB3	1.95	0.49
53:DV:40:LEU:N	53:DV:40:LEU:CD2	2.76	0.49
54:DW:36:LEU:HD13	54:DW:48:ALA:HA	1.94	0.49
56:DY:26:LYS:O	56:DY:27:VAL:C	2.55	0.49
56:DY:44:ILE:HG22	56:DY:45:VAL:N	2.28	0.49
1:AA:59:A:H5'	1:AA:60:A:C5'	2.41	0.49
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.48	0.49
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:967:C:H4'	9:AI:125:TYR:CE2	2.47	0.49
1:AA:991:U:C5	1:AA:1212:U:H1'	2.48	0.49
1:AA:1003:G:H21	1:AA:1037:C:C2'	2.26	0.49
2:AB:17:PHE:CB	2:AB:44:LEU:HD11	2.42	0.49
2:AB:24:TRP:CD1	2:AB:24:TRP:H	2.30	0.49
3:AC:18:TRP:C	3:AC:20:SER:N	2.70	0.49
3:AC:59:ARG:CD	3:AC:64:VAL:HG22	2.43	0.49
7:AG:22:LEU:O	7:AG:22:LEU:HD23	2.11	0.49
9:AI:16:ARG:HG2	9:AI:16:ARG:HH11	1.78	0.49
13:AM:83:ASP:OD1	19:AS:74:PHE:HE1	1.95	0.49
24:AY:31:THR:CG2	24:AY:42:ARG:HH11	2.26	0.49
27:B2:59:ARG:HD3	35:BA:77:C:OP1	2.11	0.49
29:B4:3:GLU:OE2	36:BB:43:C:H5'	2.11	0.49
29:B4:7:PRO:HG2	41:BG:65:GLY:C	2.38	0.49
35:BA:330:A:C2	35:BA:1210:A:H2'	2.38	0.49
35:BA:449:A:OP1	40:BF:84:VAL:O	2.31	0.49
35:BA:828:U:H3'	35:BA:828:U:O2	2.12	0.49
35:BA:1550:C:H2'	35:BA:1551:C:C6	2.47	0.49
35:BA:2025:C:H2'	35:BA:2026:C:C6	2.48	0.49
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.13	0.49
35:BA:2533:A:C5'	35:BA:2665:A:H1'	2.43	0.49
35:BA:2692:C:H1'	35:BA:2847:U:O2'	2.13	0.49
35:BA:2732:G:C3'	35:BA:2733:A:C5'	2.87	0.49
36:BB:110:G:H2'	36:BB:111:G:C8	2.48	0.49
38:BD:106:ILE:O	38:BD:106:ILE:HG12	2.12	0.49
38:BD:270:ILE:O	38:BD:271:ILE:HG23	2.13	0.49
40:BF:1:MET:C	40:BF:3:GLU:N	2.65	0.49
42:BH:50:VAL:HG12	42:BH:51:ARG:N	2.28	0.49
42:BH:82:GLY:O	42:BH:138:LYS:CD	2.61	0.49
42:BH:94:TYR:HA	42:BH:107:VAL:HG12	1.94	0.49
43:BI:40:THR:O	43:BI:41:GLU:C	2.56	0.49
43:BI:60:GLU:O	43:BI:64:GLU:HB2	2.13	0.49
47:BP:39:LYS:C	47:BP:41:ARG:HD2	2.37	0.49
47:BP:71:VAL:HG12	47:BP:72:PRO:HD3	1.95	0.49
51:BT:25:GLY:HA3	51:BT:120:ARG:HH22	1.78	0.49
51:BT:30:VAL:HG21	51:BT:83:ILE:CG1	2.43	0.49
53:BV:72:VAL:HB	53:BV:85:LYS:HB3	1.94	0.49
55:BX:18:TYR:C	55:BX:20:GLY:N	2.67	0.49
56:BY:28:LYS:O	56:BY:38:ILE:N	2.46	0.49
57:BZ:181:GLU:HG2	57:BZ:181:GLU:O	2.12	0.49
1:CA:591:U:O2'	1:CA:592:G:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1263:C:N4	1:CA:1272:G:H1	2.10	0.49
1:CA:1275:A:H2'	1:CA:1276:G:O4'	2.13	0.49
1:CA:1374:A:H1'	7:CG:31:MET:HE1	1.94	0.49
2:CB:178:ARG:HH21	8:CH:74:PRO:HG3	1.78	0.49
2:CB:193:ASP:OD2	2:CB:196:LEU:HD23	2.13	0.49
2:CB:213:LEU:O	2:CB:213:LEU:HD23	2.12	0.49
4:CD:94:LEU:HD11	4:CD:200:GLU:HB3	1.95	0.49
7:CG:50:ILE:O	7:CG:54:THR:HB	2.12	0.49
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.95	0.49
10:CJ:3:LYS:O	10:CJ:100:THR:HA	2.13	0.49
14:CN:37:PHE:CE1	14:CN:53:LEU:HD22	2.47	0.49
17:CQ:29:HIS:C	17:CQ:31:LEU:H	2.20	0.49
58:CX:16:A:C4	58:CX:17:U:C5	3.00	0.49
35:DA:74:A:H4'	35:DA:75:G:O5'	2.13	0.49
35:DA:108:U:H2'	35:DA:109:G:H8	1.77	0.49
35:DA:774:A:H2	35:DA:787:U:O2'	1.77	0.49
35:DA:865:C:C4'	35:DA:866:A:N6	2.70	0.49
35:DA:1719:G:C2'	35:DA:1720:U:H5'	2.43	0.49
35:DA:2162:G:O2'	35:DA:2163:C:H5'	2.12	0.49
35:DA:2262:U:O2'	35:DA:2263:C:H5'	2.12	0.49
35:DA:2392:A:H8	47:DP:60:MET:CB	2.25	0.49
35:DA:2703:C:O2	35:DA:2703:C:H2'	2.12	0.49
35:DA:2758:A:H2'	35:DA:2759:G:O4'	2.13	0.49
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.94	0.49
38:DD:70:TRP:O	38:DD:73:VAL:HG23	2.12	0.49
39:DE:119:ARG:HD3	39:DE:120:TRP:CE2	2.48	0.49
40:DF:132:VAL:CG2	40:DF:133:ASN:N	2.71	0.49
40:DF:157:VAL:HG22	40:DF:157:VAL:O	2.12	0.49
40:DF:178:PRO:HB2	40:DF:201:VAL:HG11	1.95	0.49
41:DG:45:GLU:O	41:DG:88:ILE:HG13	2.13	0.49
45:DN:65:LYS:O	45:DN:69:GLN:HB2	2.13	0.49
47:DP:49:ARG:NH2	47:DP:50:ARG:HH22	2.10	0.49
49:DR:10:LEU:CD1	49:DR:17:ARG:CB	1.76	0.49
49:DR:96:ARG:NH2	49:DR:118:GLU:H	2.11	0.49
53:DV:39:LEU:CD1	53:DV:51:VAL:HA	2.42	0.49
53:DV:61:VAL:HG23	53:DV:61:VAL:O	2.12	0.49
55:DX:10:ALA:HB1	55:DX:11:PRO:HD2	1.94	0.49
56:DY:60:PHE:N	56:DY:62:GLU:OE1	2.45	0.49
57:DZ:7:ALA:CB	57:DZ:59:LEU:HB3	2.42	0.49
1:AA:44:G:OP2	16:AP:12:LYS:HE3	2.13	0.49
1:AA:452:A:O3'	16:AP:72:ARG:HD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:636:U:H5'	17:AQ:2:PRO:HG3	1.95	0.49
1:AA:977:A:C2'	1:AA:978:A:H5'	2.43	0.49
1:AA:1300:G:H4'	1:AA:1301:U:O5'	2.12	0.49
1:AA:1304:G:H3'	1:AA:1305:G:C8	2.48	0.49
1:AA:1329:A:H5''	13:AM:26:GLY:H	1.78	0.49
3:AC:87:LEU:C	3:AC:89:GLU:N	2.70	0.49
7:AG:80:VAL:HG21	7:AG:85:TYR:CD1	2.46	0.49
8:AH:63:LEU:H	8:AH:63:LEU:CD2	2.23	0.49
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.95	0.49
16:AP:6:LEU:HB3	16:AP:17:TYR:CD2	2.48	0.49
22:AV:7:G:H3'	22:AV:8:U:C5'	2.43	0.49
23:AX:24:A:O4'	23:AX:24:A:N3	2.40	0.49
24:AY:55:ASP:HB2	24:AY:60:GLU:O	2.12	0.49
28:B3:4:LEU:HD11	28:B3:39:ASP:CA	2.40	0.49
32:B7:48:LYS:HD3	32:B7:48:LYS:H	1.78	0.49
35:BA:354:G:H2'	35:BA:355:G:O4'	2.12	0.49
35:BA:609:A:H2'	35:BA:610:G:O4'	2.13	0.49
35:BA:904:C:H2'	35:BA:905:U:C6	2.48	0.49
35:BA:969:U:H2'	35:BA:970:C:C6	2.47	0.49
35:BA:996:A:O4'	52:BU:92:ARG:NH2	2.45	0.49
35:BA:1507:A:H2'	35:BA:1508:A:O4'	2.13	0.49
35:BA:1516:C:H2'	35:BA:1517:G:H8	1.77	0.49
35:BA:2106:G:H2'	35:BA:2107:C:O4'	2.13	0.49
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.48	0.49
41:BG:32:PRO:CB	41:BG:172:LEU:HD22	2.43	0.49
41:BG:76:SER:HA	41:BG:84:LYS:H	1.77	0.49
41:BG:117:PHE:C	41:BG:117:PHE:CD1	2.90	0.49
42:BH:94:TYR:CE1	42:BH:160:LYS:HG2	2.48	0.49
46:BO:9:GLU:O	46:BO:83:ALA:HA	2.13	0.49
47:BP:13:ASN:HD22	47:BP:14:LYS:N	2.07	0.49
52:BU:112:ARG:CG	52:BU:112:ARG:NH1	2.76	0.49
57:BZ:77:ASP:O	57:BZ:78:LYS:C	2.56	0.49
57:BZ:150:LEU:HD23	57:BZ:150:LEU:C	2.38	0.49
1:CA:135:C:H2'	1:CA:136:C:H5'	1.94	0.49
1:CA:174:C:H2'	1:CA:175:C:H6	1.77	0.49
1:CA:684:A:H2'	1:CA:685:G:C8	2.48	0.49
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.13	0.49
2:CB:178:ARG:HH21	8:CH:74:PRO:HB3	1.78	0.49
3:CC:35:GLU:HG2	3:CC:39:ILE:HD11	1.94	0.49
4:CD:90:GLY:HA2	4:CD:204:ILE:HD11	1.95	0.49
4:CD:109:GLY:C	4:CD:111:ALA:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:100:ASN:HB2	18:CR:27:GLY:O	2.12	0.49
7:CG:80:VAL:CG1	7:CG:81:GLY:H	2.17	0.49
12:CL:25:LYS:CD	12:CL:30:ARG:HH22	2.25	0.49
15:CO:48:LYS:HE2	15:CO:48:LYS:HA	1.95	0.49
17:CQ:50:LYS:O	17:CQ:51:TYR:C	2.54	0.49
27:D2:47:ASN:O	27:D2:48:HIS:C	2.55	0.49
28:D3:41:PRO:HA	28:D3:44:ARG:HG2	1.95	0.49
29:D4:14:ILE:O	29:D4:21:VAL:HG13	2.13	0.49
32:D7:30:VAL:HA	32:D7:33:ARG:NH1	2.28	0.49
35:DA:354:G:H2'	35:DA:355:G:O4'	2.12	0.49
35:DA:660:G:H5'	40:DF:99:TYR:CE2	2.47	0.49
35:DA:661:C:H2'	35:DA:662:G:H8	1.78	0.49
35:DA:691:C:O4'	38:DD:43:ARG:NH2	2.37	0.49
35:DA:1142:U:H5''	35:DA:1142(A):A:C8	2.47	0.49
35:DA:1203:G:H3'	35:DA:1204:A:H5''	1.95	0.49
35:DA:1221:C:O2'	35:DA:1221(A):C:H5'	2.12	0.49
35:DA:1507:A:H2'	35:DA:1508:A:O4'	2.13	0.49
35:DA:1913:A:OP2	35:DA:1913:A:O3'	2.30	0.49
35:DA:2579:C:H1'	39:DE:134:ILE:HD13	1.94	0.49
36:DB:24:G:H4'	36:DB:25:A:C8	2.48	0.49
38:DD:131:LEU:HD12	38:DD:135:PHE:CB	2.43	0.49
39:DE:128:SER:OG	39:DE:129:HIS:N	2.41	0.49
40:DF:22:ALA:HB1	40:DF:26:ALA:CA	2.42	0.49
42:DH:10:PRO:HD2	42:DH:50:VAL:O	2.13	0.49
48:DQ:1:MET:O	48:DQ:2:LEU:CB	2.59	0.49
50:DS:42:ASP:C	50:DS:44:LYS:N	2.68	0.49
55:DX:43:VAL:CG2	55:DX:51:VAL:HG21	2.43	0.49
57:DZ:10:ARG:NH2	57:DZ:26:GLY:N	2.59	0.49
57:DZ:103:ARG:HH11	57:DZ:103:ARG:HG3	1.78	0.49
1:AA:165:C:H2'	1:AA:166:G:H8	1.77	0.49
1:AA:538:G:OP2	12:AL:112:LYS:CG	2.61	0.49
1:AA:707:C:H2'	1:AA:708:C:C6	2.48	0.49
1:AA:1392:G:N2	1:AA:1502:A:C8	2.80	0.49
1:AA:1440:C:H2'	1:AA:1441:G:O4'	2.12	0.49
3:AC:88:ARG:O	3:AC:99:VAL:HG11	2.13	0.49
5:AE:70:PRO:CB	5:AE:144:THR:HG22	2.43	0.49
5:AE:103:GLY:O	5:AE:105:VAL:N	2.46	0.49
11:AK:104:GLN:O	11:AK:106:LYS:N	2.44	0.49
13:AM:11:ARG:C	13:AM:13:LYS:H	2.20	0.49
13:AM:98:VAL:HG12	13:AM:99:ARG:N	2.27	0.49
15:AO:64:ARG:HG3	15:AO:64:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:31:THR:CG2	24:AY:42:ARG:NH1	2.76	0.49
31:B6:35:GLU:CB	31:B6:51:GLU:HB3	2.28	0.49
33:B8:61:LEU:CG	33:B8:62:LEU:H	2.24	0.49
35:BA:614:U:H3'	35:BA:614(A):U:H6	1.78	0.49
35:BA:956:G:H4'	48:BQ:83:MET:HE1	1.95	0.49
35:BA:1014:U:H2'	35:BA:1015:G:H8	1.78	0.49
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.13	0.49
35:BA:2470:G:C6	35:BA:2471:C:C5	3.01	0.49
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.13	0.49
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.95	0.49
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.13	0.49
38:BD:93:ALA:HB3	38:BD:105:ILE:CG2	2.42	0.49
39:BE:55:ASN:O	39:BE:57:LYS:N	2.46	0.49
39:BE:63:LEU:O	39:BE:64:LYS:C	2.56	0.49
40:BF:53:THR:C	40:BF:55:GLY:N	2.68	0.49
47:BP:123:LEU:HD12	47:BP:123:LEU:O	2.13	0.49
48:BQ:124:LYS:C	48:BQ:125:LEU:HD23	2.38	0.49
52:BU:92:ARG:HB3	53:BV:11:GLN:HE22	1.78	0.49
57:BZ:75:ASN:O	57:BZ:83:PRO:HA	2.12	0.49
1:CA:44:G:OP2	16:CP:12:LYS:HE3	2.13	0.49
1:CA:1249:C:H5'	1:CA:1249:C:H6	1.77	0.49
1:CA:1287:A:H2'	1:CA:1288:A:H8	1.76	0.49
1:CA:1428:A:N1	1:CA:1473:A:C6	2.81	0.49
1:CA:1477:C:O2'	1:CA:1478:C:H5'	2.13	0.49
1:CA:1506:U:P	58:CX:15:A:OP1	2.71	0.49
2:CB:20:GLU:HG3	2:CB:191:ASP:OD1	2.12	0.49
2:CB:144:ARG:O	2:CB:147:LYS:HB3	2.13	0.49
3:CC:119:ARG:HG3	3:CC:119:ARG:HH11	1.78	0.49
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.43	0.49
4:CD:132:ARG:HG2	4:CD:132:ARG:NH1	2.26	0.49
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.94	0.49
12:CL:2:PRO:HA	12:CL:6:GLN:NE2	2.28	0.49
58:CX:17:U:O2	58:CX:18:G:C8	2.66	0.49
27:D2:43:GLN:O	27:D2:44:LEU:C	2.56	0.49
27:D2:48:HIS:CD2	35:DA:96:G:H4'	2.48	0.49
27:D2:63:VAL:HG22	27:D2:66:GLU:OE1	2.13	0.49
31:D6:11:LEU:CD2	31:D6:51:GLU:HB2	2.31	0.49
34:D9:11:CYS:SG	34:D9:32:HIS:CE1	3.06	0.49
35:DA:118:A:OP2	35:DA:119:A:H5''	2.13	0.49
35:DA:252:G:P	47:DP:50:ARG:HH11	2.35	0.49
35:DA:720:C:H2'	35:DA:721:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:986:C:O2'	35:DA:987:G:H5'	2.12	0.49
35:DA:2014:A:H4'	54:DW:92:ARG:NH2	2.22	0.49
35:DA:2314:C:H2'	35:DA:2315:G:H8	1.77	0.49
35:DA:2393:A:H4'	47:DP:61:ARG:O	2.13	0.49
35:DA:2467:C:H4'	48:DQ:123:HIS:CD2	2.48	0.49
35:DA:2473:U:O2'	35:DA:2474:C:O4'	2.30	0.49
36:DB:25:A:H2'	36:DB:26:A:O4'	2.13	0.49
38:DD:27:THR:CG2	38:DD:27:THR:O	2.61	0.49
39:DE:27:LEU:HD23	51:DT:1:MET:SD	2.53	0.49
42:DH:82:GLY:O	42:DH:138:LYS:CD	2.61	0.49
42:DH:122:THR:C	42:DH:133:VAL:HG13	2.37	0.49
45:DN:1:MET:C	45:DN:2:LYS:HD2	2.37	0.49
45:DN:94:HIS:HA	45:DN:96:GLU:OE1	2.13	0.49
47:DP:96:THR:O	47:DP:98:GLU:N	2.46	0.49
51:DT:30:VAL:HG21	51:DT:83:ILE:CG1	2.43	0.49
51:DT:41:ARG:HD2	51:DT:41:ARG:C	2.38	0.49
53:DV:72:VAL:HB	53:DV:85:LYS:HB3	1.95	0.49
55:DX:23:GLU:C	55:DX:25:LYS:H	2.20	0.49
56:DY:4:LYS:HZ2	56:DY:5:MET:HG2	1.78	0.49
1:AA:557:G:H2'	1:AA:558:G:C8	2.47	0.48
1:AA:1026:G:H2'	1:AA:1026:G:N3	2.29	0.48
1:AA:1244:C:OP2	21:AU:9:ARG:HB2	2.13	0.48
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.13	0.48
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.48	0.48
1:AA:1456:G:H2'	1:AA:1457:G:H5'	1.95	0.48
2:AB:34:ALA:HB1	2:AB:36:ARG:NH1	2.27	0.48
2:AB:115:LEU:HD13	2:AB:145:LEU:CB	2.42	0.48
3:AC:57:ILE:CG1	3:AC:66:VAL:HG13	2.41	0.48
4:AD:126:ILE:CG2	4:AD:127:THR:H	2.25	0.48
5:AE:148:VAL:O	5:AE:150:ARG:N	2.45	0.48
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.28	0.48
7:AG:26:PHE:CZ	7:AG:30:ILE:HD11	2.48	0.48
7:AG:50:ILE:O	7:AG:54:THR:HB	2.13	0.48
7:AG:148:ASN:HD22	7:AG:148:ASN:N	2.11	0.48
9:AI:79:LEU:HA	9:AI:101:PHE:O	2.13	0.48
12:AL:82:ILE:HD11	12:AL:95:TYR:HB3	1.95	0.48
19:AS:8:GLY:C	19:AS:10:PHE:H	2.21	0.48
20:AT:30:LYS:HE2	20:AT:30:LYS:HA	1.95	0.48
23:AX:14:A:N6	23:AX:15:A:N1	2.60	0.48
26:B1:70:VAL:O	26:B1:73:LEU:HB3	2.12	0.48
31:B6:11:LEU:HG	31:B6:26:ASN:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:319:C:O2'	35:BA:320:A:H5'	2.13	0.48
35:BA:363(A):A:H3'	35:BA:363(B):G:H8	1.77	0.48
35:BA:521:G:H2'	35:BA:522:G:C8	2.48	0.48
35:BA:1434:A:O2'	35:BA:1435:G:H5'	2.13	0.48
35:BA:1494:A:H1'	35:BA:1496:A:N1	2.28	0.48
35:BA:2275:C:H5'	35:BA:2275:C:H6	1.78	0.48
35:BA:2757:A:H2'	35:BA:2757:A:N3	2.28	0.48
36:BB:17:C:C2'	36:BB:18:G:H5'	2.43	0.48
38:BD:54:ARG:CG	38:BD:54:ARG:NH1	2.73	0.48
38:BD:94:LEU:CD2	38:BD:94:LEU:C	2.86	0.48
40:BF:202:PHE:CE1	40:BF:206:ILE:HD11	2.48	0.48
47:BP:64:LYS:C	47:BP:64:LYS:HD3	2.38	0.48
56:BY:17:SER:OG	56:BY:18:GLY:N	2.43	0.48
57:BZ:34:ASN:O	57:BZ:35:ARG:HG2	2.12	0.48
1:CA:18:C:N3	1:CA:918:A:C2	2.82	0.48
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.43	0.48
1:CA:983:A:N1	1:CA:1222:G:N2	2.61	0.48
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.47	0.48
2:CB:169:LYS:O	2:CB:170:GLU:HG3	2.13	0.48
8:CH:86:ILE:O	8:CH:88:LYS:HG3	2.13	0.48
11:CK:95:ILE:O	11:CK:99:GLN:HG3	2.13	0.48
13:CM:22:ILE:HB	13:CM:25:ILE:HB	1.95	0.48
13:CM:91:ARG:HB2	13:CM:98:VAL:CG2	2.43	0.48
18:CR:58:LEU:HB3	18:CR:62:GLU:CB	2.42	0.48
20:CT:53:LEU:O	20:CT:56:MET:HB3	2.13	0.48
20:CT:76:ALA:O	20:CT:80:ARG:HG2	2.12	0.48
20:CT:93:GLU:CD	20:CT:93:GLU:C	2.81	0.48
22:CV:14:A:C2	22:CV:15:G:H1'	2.48	0.48
25:D0:41:ARG:HE	35:DA:2387:U:H1'	1.77	0.48
35:DA:1044:G:O2'	35:DA:1111:A:N6	2.46	0.48
35:DA:1373:A:H2'	35:DA:1374:G:O4'	2.13	0.48
35:DA:1915:U:O4	35:DA:1916:A:C5	2.66	0.48
35:DA:2025:C:H2'	35:DA:2026:C:C6	2.47	0.48
35:DA:2157:G:O2'	35:DA:2158:A:H5'	2.13	0.48
35:DA:2819:G:H2'	35:DA:2821:A:N7	2.28	0.48
36:DB:75:G:H5'	36:DB:75:G:C8	2.38	0.48
39:DE:203:LYS:CE	39:DE:204:ALA:HB2	2.34	0.48
40:DF:10:PRO:C	40:DF:128:ALA:HB2	2.38	0.48
41:DG:76:SER:HA	41:DG:83:ARG:HA	1.94	0.48
41:DG:136:ARG:O	41:DG:154:GLY:HA3	2.12	0.48
41:DG:139:LEU:HD12	41:DG:140:ILE:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:8:PRO:CD	42:DH:69:ARG:HD2	2.41	0.48
43:DI:60:GLU:O	43:DI:64:GLU:HB2	2.12	0.48
45:DN:89:LYS:HB3	45:DN:89:LYS:NZ	2.28	0.48
45:DN:93:THR:O	45:DN:94:HIS:HB2	2.13	0.48
46:DO:93:PRO:HD3	46:DO:114:ILE:CD1	2.42	0.48
47:DP:17:LYS:C	47:DP:19:VAL:H	2.21	0.48
47:DP:41:ARG:NE	47:DP:41:ARG:N	2.60	0.48
50:DS:18:ILE:C	50:DS:20:ARG:N	2.70	0.48
51:DT:82:LEU:N	51:DT:82:LEU:CD1	2.73	0.48
51:DT:117:ASP:CG	51:DT:120:ARG:HG3	2.38	0.48
54:DW:5:ALA:CB	54:DW:50:VAL:HG23	2.38	0.48
1:AA:429:U:H4'	1:AA:430:A:O5'	2.12	0.48
1:AA:707:C:H2'	1:AA:708:C:H6	1.78	0.48
1:AA:878:G:H5''	8:AH:89:PRO:HB2	1.93	0.48
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.42	0.48
1:AA:1223:C:P	1:AA:1224:G:H2'	2.53	0.48
1:AA:1241:G:H1	1:AA:1296:C:N4	2.11	0.48
1:AA:1493:A3P:N7	24:AY:40:ARG:NH1	2.61	0.48
2:AB:21:ARG:HA	2:AB:40:HIS:CE1	2.48	0.48
3:AC:76:VAL:O	3:AC:84:ILE:HB	2.13	0.48
4:AD:109:GLY:C	4:AD:111:ALA:H	2.21	0.48
4:AD:132:ARG:HG2	4:AD:132:ARG:NH1	2.25	0.48
6:AF:69:GLU:HG2	6:AF:70:ASP:N	2.23	0.48
7:AG:77:SER:O	7:AG:78:ARG:HB2	2.13	0.48
10:AJ:8:LEU:O	10:AJ:69:ASN:HA	2.12	0.48
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.28	0.48
15:AO:53:HIS:NE2	35:BA:715:G:O6	2.37	0.48
16:AP:68:ASP:C	16:AP:70:ALA:H	2.21	0.48
17:AQ:14:LYS:N	17:AQ:14:LYS:HD2	2.29	0.48
22:AV:1:C:H2'	22:AV:2:G:H8	1.78	0.48
23:AX:10:G:O2'	23:AX:11:U:C4	2.67	0.48
23:AX:19:U:O2'	23:AX:20:U:H6	1.86	0.48
30:B5:40:LYS:HB2	30:B5:41:PRO:HD2	1.94	0.48
32:B7:43:THR:HG23	32:B7:44:PRO:CD	2.43	0.48
35:BA:311:A:C6	35:BA:328:U:C4	3.01	0.48
35:BA:478:A:N1	35:BA:500:G:H4'	2.28	0.48
35:BA:491:G:O2'	35:BA:492:A:H5'	2.11	0.48
35:BA:914:C:C2'	35:BA:915:C:H5'	2.42	0.48
35:BA:1149:G:H2'	35:BA:1150:C:H6	1.78	0.48
35:BA:1557:C:H2'	35:BA:1558:A:C2	2.48	0.48
35:BA:2417:C:C4	35:BA:2418:A:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2473:U:C2	35:BA:2474:C:C6	3.01	0.48
35:BA:2820:A:H1'	49:BR:5:LYS:HE3	1.94	0.48
37:BC:78:ALA:HB3	37:BC:82:LYS:HE3	1.95	0.48
38:BD:71:ASP:O	38:BD:72:LYS:HD2	2.14	0.48
39:BE:82:ARG:HB3	39:BE:83:ASP:H	1.48	0.48
40:BF:131:GLY:O	40:BF:132:VAL:C	2.55	0.48
40:BF:137:LYS:CA	40:BF:140:LEU:HD23	2.43	0.48
43:BI:7:GLU:H	43:BI:7:GLU:CD	2.20	0.48
46:BO:40:VAL:HG12	46:BO:41:ALA:N	2.29	0.48
47:BP:35:HIS:C	47:BP:36:LYS:HG3	2.38	0.48
52:BU:92:ARG:HH22	53:BV:10:LYS:CA	2.20	0.48
55:BX:43:VAL:HG23	55:BX:51:VAL:HG21	1.94	0.48
56:BY:14:LEU:CD1	56:BY:22:GLY:HA2	2.34	0.48
1:CA:123:C:OP1	1:CA:312:C:H5'	2.13	0.48
1:CA:185:A:H61	1:CA:192:U:H3	1.61	0.48
1:CA:401:C:P	4:CD:73:ARG:NE	2.85	0.48
1:CA:1221:G:C4'	19:CS:77:THR:HG21	2.29	0.48
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.24	0.48
2:CB:178:ARG:HD2	8:CH:71:GLY:O	2.13	0.48
3:CC:22:TRP:HE3	3:CC:23:TYR:O	1.96	0.48
3:CC:83:ARG:O	3:CC:86:VAL:HG22	2.13	0.48
3:CC:147:LYS:O	3:CC:203:PHE:HD2	1.96	0.48
8:CH:103:VAL:HG21	8:CH:109:ILE:O	2.13	0.48
9:CI:114:TYR:CD2	9:CI:114:TYR:N	2.80	0.48
11:CK:57:THR:CG2	11:CK:60:ALA:HB2	2.42	0.48
22:CW:28:C:HO2'	22:CW:42:G:H1	1.59	0.48
27:D2:25:VAL:O	27:D2:27:GLU:N	2.46	0.48
29:D4:21:VAL:HG12	29:D4:21:VAL:O	2.13	0.48
32:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.48	0.48
35:DA:21:A:O2'	35:DA:22:C:H5'	2.13	0.48
35:DA:272(J):C:H5	35:DA:274:G:N1	2.11	0.48
35:DA:319:C:H2'	35:DA:320:A:O4'	2.12	0.48
35:DA:449:A:OP1	40:DF:84:VAL:O	2.31	0.48
35:DA:816:C:HO2'	35:DA:817:C:H5'	1.75	0.48
35:DA:865:C:C4'	35:DA:866:A:H62	2.26	0.48
35:DA:1404:C:O2'	35:DA:1405:U:H5'	2.13	0.48
35:DA:1894:C:O2'	35:DA:1895:C:H5'	2.13	0.48
35:DA:2678:C:H2'	35:DA:2679:A:O4'	2.13	0.48
41:DG:69:ALA:HB3	41:DG:91:ARG:HD2	1.95	0.48
42:DH:44:VAL:C	42:DH:46:GLU:H	2.20	0.48
47:DP:105:LEU:O	47:DP:106:LEU:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:10:LEU:HD21	49:DR:17:ARG:CB	2.43	0.48
53:DV:18:LEU:HD22	53:DV:19:LYS:H	1.78	0.48
53:DV:19:LYS:HD3	53:DV:22:VAL:HG11	1.95	0.48
54:DW:33:ARG:O	54:DW:37:ARG:HG3	2.12	0.48
55:DX:12:VAL:HG21	55:DX:27:THR:HG23	1.94	0.48
55:DX:28:PHE:N	55:DX:28:PHE:CD1	2.81	0.48
55:DX:43:VAL:HG23	55:DX:51:VAL:HG21	1.95	0.48
57:DZ:102:LEU:HD22	57:DZ:137:ILE:HB	1.94	0.48
57:DZ:119:GLU:OE1	57:DZ:122:ARG:HG2	2.13	0.48
1:AA:93:G:C2'	1:AA:96:U:H5'	2.42	0.48
1:AA:728:A:C6	15:AO:54:ARG:HD2	2.48	0.48
1:AA:782:A:H2'	1:AA:783:C:H5'	1.94	0.48
2:AB:97:TRP:HZ3	2:AB:172:ILE:HD13	1.77	0.48
8:AH:1:MET:HE2	8:AH:1:MET:H3	1.78	0.48
10:AJ:10:GLY:HA3	10:AJ:16:LEU:HD23	1.95	0.48
12:AL:70:GLU:O	12:AL:71:GLY:O	2.31	0.48
22:AV:19:G:C4	22:AV:57:A:C2	3.00	0.48
22:AV:62:C:H6	22:AV:62:C:O5'	1.96	0.48
22:AW:37:A:H2'	22:AW:38:A:C8	2.48	0.48
24:AY:21:LEU:HD23	24:AY:52:TYR:HH	1.78	0.48
25:B0:36:ILE:HD12	25:B0:38:VAL:N	2.28	0.48
27:B2:41:ILE:CG1	27:B2:43:GLN:HB2	2.43	0.48
27:B2:45:SER:O	27:B2:46:GLN:NE2	2.46	0.48
35:BA:570:G:H2'	35:BA:2030:A:C5	2.48	0.48
35:BA:832:G:N3	47:BP:53:GLY:HA2	2.28	0.48
35:BA:1563:G:C5	35:BA:1564:C:C5	3.02	0.48
35:BA:1904:G:O2'	35:BA:1905:C:H5'	2.12	0.48
35:BA:2227:A:H8	35:BA:2227:A:O5'	1.96	0.48
36:BB:87:G:C2'	36:BB:88:C:H5''	2.42	0.48
38:BD:3:VAL:CG1	38:BD:17:THR:HB	2.43	0.48
43:BI:111:PRO:HG2	43:BI:112:LYS:HG3	1.94	0.48
45:BN:42:TRP:CZ2	45:BN:44:PRO:HA	2.49	0.48
47:BP:18:ARG:O	47:BP:20:GLY:N	2.46	0.48
47:BP:105:LEU:O	47:BP:106:LEU:HB3	2.14	0.48
48:BQ:111:GLU:O	48:BQ:115:MET:HG2	2.13	0.48
49:BR:45:ARG:HD3	49:BR:97:VAL:CG1	2.43	0.48
51:BT:91:ARG:CB	51:BT:116:ALA:HA	2.33	0.48
51:BT:106:SER:CA	51:BT:110:ILE:HD11	2.43	0.48
53:BV:45:THR:O	53:BV:46:VAL:HG12	2.14	0.48
53:BV:83:ARG:HG2	53:BV:83:ARG:NH1	2.26	0.48
54:BW:111:HIS:C	54:BW:113:LYS:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:39:VAL:HG12	56:BY:40:GLU:N	2.28	0.48
57:BZ:109:ALA:HB1	57:BZ:146:ILE:HG12	1.94	0.48
1:CA:499:A:H4'	1:CA:500:G:OP1	2.13	0.48
1:CA:782:A:C2'	1:CA:783:C:H5'	2.43	0.48
1:CA:973:G:N3	10:CJ:55:LYS:HE2	2.29	0.48
1:CA:1005:A:C2'	1:CA:1006:C:H5'	2.43	0.48
1:CA:1005:A:H2'	1:CA:1006:C:H5'	1.95	0.48
1:CA:1062:U:O5'	1:CA:1062:U:H6	1.95	0.48
1:CA:1128:C:N4	1:CA:1143:G:H1	2.08	0.48
1:CA:1148:U:O4'	9:CI:16:ARG:NH1	2.46	0.48
1:CA:1244:C:OP2	21:CU:9:ARG:HB2	2.13	0.48
2:CB:24:TRP:H	2:CB:24:TRP:HD1	1.61	0.48
2:CB:178:ARG:HD2	8:CH:71:GLY:C	2.38	0.48
12:CL:33:VAL:N	12:CL:55:VAL:HG13	2.26	0.48
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.27	0.48
16:CP:45:THR:O	16:CP:48:TRP:HD1	1.95	0.48
17:CQ:31:LEU:HD12	17:CQ:31:LEU:O	2.13	0.48
19:CS:8:GLY:C	19:CS:10:PHE:H	2.22	0.48
19:CS:33:THR:CG2	19:CS:34:TRP:N	2.76	0.48
20:CT:30:LYS:HE2	20:CT:30:LYS:HA	1.95	0.48
22:CV:21:A:H2'	22:CV:21:A:N3	2.28	0.48
26:D1:26:ARG:HG3	26:D1:26:ARG:HH11	1.78	0.48
26:D1:50:ARG:CB	26:D1:50:ARG:NH1	2.76	0.48
31:D6:11:LEU:HD21	31:D6:51:GLU:CB	2.30	0.48
31:D6:32:ASN:O	31:D6:33:LYS:HB2	2.13	0.48
33:D8:61:LEU:HD12	33:D8:62:LEU:HG	1.95	0.48
35:DA:90:U:O4'	35:DA:92:A:H8	1.95	0.48
35:DA:315:G:H2'	35:DA:316:C:C6	2.47	0.48
35:DA:536:A:H2'	35:DA:537:C:C6	2.48	0.48
35:DA:1204:A:H2	35:DA:1241:A:N1	2.11	0.48
35:DA:1262:A:P	54:DW:99:ARG:HH12	2.37	0.48
35:DA:1794:U:C2	35:DA:1795:C:C5	3.01	0.48
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.95	0.48
35:DA:2776:A:H4'	35:DA:2777:G:H5''	1.96	0.48
36:DB:18:G:H1	36:DB:65:C:H42	1.62	0.48
36:DB:29:A:H2'	36:DB:30:C:O4'	2.13	0.48
38:DD:5:LYS:HD2	38:DD:17:THR:HG22	1.94	0.48
39:DE:201:THR:OG1	39:DE:202:LYS:N	2.45	0.48
41:DG:114:ILE:CG2	41:DG:115:ARG:N	2.76	0.48
45:DN:78:TYR:H	45:DN:78:TYR:HD1	1.46	0.48
45:DN:119:ARG:HG3	45:DN:119:ARG:NH1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:16:ARG:NH1	47:DP:16:ARG:HB2	2.29	0.48
50:DS:64:GLU:O	50:DS:68:GLN:HG3	2.13	0.48
53:DV:1:MET:HE2	53:DV:1:MET:HA	1.96	0.48
53:DV:6:LYS:HB3	53:DV:37:VAL:CG1	2.38	0.48
54:DW:111:HIS:CG	54:DW:112:GLY:H	2.31	0.48
56:DY:40:GLU:OE2	56:DY:40:GLU:HA	2.13	0.48
57:DZ:11:GLU:N	57:DZ:11:GLU:CD	2.71	0.48
1:AA:8:A:H62	4:AD:208:SER:HB2	1.77	0.48
1:AA:15:G:H2'	1:AA:16:A:H8	1.78	0.48
1:AA:644:G:H4'	8:AH:92:ARG:NH2	2.26	0.48
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.78	0.48
1:AA:1332:A:O2'	1:AA:1333:A:H5'	2.13	0.48
1:AA:1445:C:O2'	1:AA:1446:U:H5'	2.13	0.48
1:AA:1493:A3P:O1P	24:AY:58:ALA:HB2	2.12	0.48
2:AB:167:PRO:HG2	2:AB:168:THR:H	1.79	0.48
4:AD:31:CYS:C	4:AD:33:MET:N	2.71	0.48
4:AD:177:ASP:OD1	4:AD:180:GLY:N	2.46	0.48
5:AE:139:LEU:CA	5:AE:142:LEU:HD12	2.42	0.48
6:AF:11:ASN:C	6:AF:13:ASN:H	2.22	0.48
6:AF:69:GLU:O	6:AF:72:VAL:N	2.45	0.48
8:AH:21:LYS:HB3	8:AH:21:LYS:NZ	2.28	0.48
8:AH:29:SER:HB3	8:AH:32:LYS:CD	2.43	0.48
10:AJ:3:LYS:O	10:AJ:100:THR:HA	2.12	0.48
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.28	0.48
24:AY:25:LYS:HA	24:AY:26:PRO:HD3	1.69	0.48
25:B0:5:LYS:HD3	48:BQ:81:VAL:HG12	1.95	0.48
27:B2:10:LEU:HD13	27:B2:14:ARG:NH1	2.28	0.48
29:B4:14:ILE:O	29:B4:21:VAL:HG13	2.13	0.48
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.46	0.48
31:B6:20:ASN:C	31:B6:21:TYR:CD1	2.91	0.48
35:BA:475:U:H6	35:BA:475:U:O5'	1.97	0.48
35:BA:793:A:OP2	35:BA:2072:G:H5'	2.14	0.48
35:BA:1015:G:O2'	35:BA:1016:G:H5'	2.13	0.48
35:BA:1374:G:H2'	35:BA:1375:C:H6	1.77	0.48
35:BA:1532:C:OP1	35:BA:1532:C:H3'	2.13	0.48
35:BA:2855:C:H2'	35:BA:2856:C:C6	2.47	0.48
36:BB:75:G:H5'	36:BB:75:G:C8	2.39	0.48
40:BF:157:VAL:HG22	40:BF:157:VAL:O	2.14	0.48
41:BG:9:ARG:HH11	41:BG:9:ARG:HG2	1.79	0.48
42:BH:25:LYS:N	42:BH:25:LYS:HD2	2.28	0.48
47:BP:146:VAL:HG13	47:BP:147:LEU:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:3:ARG:C	51:BT:5:ALA:H	2.21	0.48
52:BU:102:GLU:N	52:BU:103:PRO:CD	2.77	0.48
54:BW:36:LEU:HD13	54:BW:48:ALA:HA	1.96	0.48
54:BW:83:LYS:O	54:BW:84:ARG:HD3	2.14	0.48
55:BX:28:PHE:N	55:BX:28:PHE:CD1	2.81	0.48
55:BX:50:LYS:CB	55:BX:87:GLN:HE22	2.26	0.48
56:BY:50:ARG:C	56:BY:52:SER:H	2.20	0.48
1:CA:31:G:O2'	1:CA:48:C:N4	2.45	0.48
1:CA:423:G:C2'	1:CA:424:G:H5'	2.44	0.48
1:CA:721:G:H4'	1:CA:722:A:O4'	2.12	0.48
1:CA:760:G:O2'	17:CQ:98:LEU:HD23	2.13	0.48
1:CA:909:A:H2'	1:CA:910:C:O4'	2.12	0.48
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.95	0.48
1:CA:1507:A:H2'	1:CA:1508:G:H8	1.79	0.48
2:CB:141:GLU:O	2:CB:145:LEU:HD23	2.13	0.48
3:CC:44:GLU:HA	3:CC:52:LEU:HD21	1.96	0.48
5:CE:88:LYS:HB3	5:CE:123:LEU:HB2	1.95	0.48
5:CE:103:GLY:O	5:CE:106:PRO:HD2	2.13	0.48
7:CG:106:GLN:O	7:CG:110:GLN:HG3	2.13	0.48
8:CH:19:VAL:CG2	8:CH:21:LYS:HG3	2.42	0.48
11:CK:34:ASP:OD2	11:CK:38:ASN:HB2	2.13	0.48
11:CK:101:SER:C	11:CK:103:LEU:N	2.71	0.48
13:CM:11:ARG:C	13:CM:13:LYS:H	2.21	0.48
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.61	0.48
16:CP:68:ASP:C	16:CP:70:ALA:H	2.21	0.48
19:CS:31:ILE:CG2	19:CS:49:ILE:HG22	2.44	0.48
25:D0:72:ARG:HH11	25:D0:75:LEU:CD1	2.26	0.48
33:D8:56:GLU:HA	33:D8:59:LYS:HZ1	1.78	0.48
35:DA:11:G:O2'	35:DA:2802:G:H5''	2.12	0.48
35:DA:634:C:H2'	35:DA:635:C:C6	2.48	0.48
35:DA:1346:G:C3'	35:DA:1347:G:H5''	2.43	0.48
35:DA:1478:G:O2'	35:DA:1558:A:H2	1.96	0.48
35:DA:2065:C:H2'	35:DA:2066:C:H6	1.79	0.48
35:DA:2106:G:H2'	35:DA:2107:C:O4'	2.13	0.48
35:DA:2822:G:H2'	35:DA:2823:A:H5''	1.94	0.48
36:DB:59:A:H2'	36:DB:60:C:C6	2.48	0.48
36:DB:87:G:C2'	36:DB:88:C:H5''	2.43	0.48
41:DG:56:ALA:HA	41:DG:59:GLU:HG2	1.95	0.48
41:DG:64:THR:HG23	41:DG:66:GLN:H	1.79	0.48
41:DG:119:GLY:HA2	41:DG:179:PRO:O	2.13	0.48
41:DG:126:ASP:O	41:DG:128:ARG:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:95:ARG:HH12	42:DH:97:ARG:HH11	1.60	0.48
43:DI:88:ILE:HD13	43:DI:142:VAL:HG12	1.95	0.48
46:DO:104:ARG:NH2	51:DT:33:LYS:HZ3	2.05	0.48
53:DV:23:GLU:O	53:DV:24:LYS:O	2.32	0.48
54:DW:10:VAL:HG12	54:DW:12:ILE:HG22	1.95	0.48
55:DX:47:PHE:HD2	55:DX:89:ILE:HG23	1.78	0.48
56:DY:7:VAL:CB	56:DY:8:LYS:HZ2	2.24	0.48
57:DZ:37:VAL:O	57:DZ:38:TYR:HB3	2.12	0.48
1:AA:724:G:O2'	1:AA:725:G:H5'	2.13	0.48
1:AA:758:G:H5''	1:AA:880:C:H1'	1.95	0.48
1:AA:763:G:H2'	1:AA:764:C:C6	2.47	0.48
1:AA:1393:U:H5'	1:AA:1502:A:OP1	2.13	0.48
2:AB:12:GLU:HB3	2:AB:213:LEU:CD1	2.42	0.48
2:AB:50:GLU:C	2:AB:52:GLU:N	2.70	0.48
2:AB:187:LEU:HD22	2:AB:205:ASP:HB3	1.96	0.48
2:AB:219:VAL:CG1	2:AB:223:ILE:HG13	2.40	0.48
7:AG:29:LYS:HB3	7:AG:105:VAL:HG21	1.95	0.48
7:AG:69:VAL:HG12	7:AG:69:VAL:O	2.13	0.48
7:AG:111:ARG:HB3	7:AG:113:GLU:HG2	1.94	0.48
11:AK:38:ASN:N	11:AK:38:ASN:ND2	2.56	0.48
15:AO:34:LEU:O	15:AO:35:ARG:C	2.56	0.48
19:AS:14:HIS:CD2	19:AS:15:LEU:HD23	2.49	0.48
20:AT:70:SER:HA	20:AT:73:HIS:HD2	1.77	0.48
28:B3:7:LYS:HE2	28:B3:32:GLN:HA	1.96	0.48
31:B6:41:PRO:O	31:B6:45:LYS:HD2	2.12	0.48
35:BA:49:A:H5''	35:BA:51:G:O4'	2.13	0.48
35:BA:247:G:H4'	35:BA:386:G:C5	2.49	0.48
35:BA:363(F):A:HO2'	35:BA:364:C:H5	1.57	0.48
35:BA:420:C:H2'	35:BA:421:U:C6	2.49	0.48
35:BA:926:A:O2'	35:BA:927:G:H5'	2.13	0.48
35:BA:1347:G:H5'	35:BA:1347:G:C8	2.45	0.48
35:BA:2724:C:OP1	49:BR:2:ARG:NH2	2.47	0.48
36:BB:7:G:O5'	50:BS:29:PHE:CE1	2.66	0.48
36:BB:42:C:H5''	41:BG:67:LYS:HG3	1.95	0.48
37:BC:82:LYS:NZ	37:BC:82:LYS:HB3	2.25	0.48
39:BE:34:VAL:CG1	39:BE:48:GLN:HE21	2.27	0.48
41:BG:81:LYS:O	41:BG:82:LEU:O	2.31	0.48
43:BI:99:GLU:CD	43:BI:100:ALA:N	2.71	0.48
45:BN:14:VAL:CG1	45:BN:15:LEU:N	2.76	0.48
47:BP:125:VAL:O	47:BP:144:GLU:HB2	2.13	0.48
49:BR:94:TYR:C	49:BR:117:VAL:HG23	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:78:LEU:O	51:BT:78:LEU:HG	2.12	0.48
57:BZ:163:LEU:H	57:BZ:163:LEU:CD2	2.27	0.48
1:CA:161:A:H2'	1:CA:162:A:H8	1.78	0.48
1:CA:199:G:C2	1:CA:219:C:N3	2.82	0.48
1:CA:221:C:O2'	1:CA:222:U:H5'	2.12	0.48
1:CA:229:U:O2'	1:CA:230:G:H5'	2.12	0.48
1:CA:386:C:H2'	1:CA:387:U:C5'	2.44	0.48
1:CA:538:G:H5''	12:CL:111:LYS:HD3	1.96	0.48
1:CA:1277:C:O2'	1:CA:1279:A:H8	1.96	0.48
1:CA:1440:C:H1'	1:CA:1462:G:H22	1.78	0.48
1:CA:1463:C:P	51:DT:111:ARG:HH21	2.37	0.48
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.14	0.48
3:CC:119:ARG:HD3	3:CC:119:ARG:C	2.38	0.48
20:CT:90:GLN:O	20:CT:93:GLU:HB3	2.13	0.48
25:D0:43:THR:HG22	35:DA:2332:U:H5'	1.95	0.48
26:D1:3:LYS:O	26:D1:12:PRO:HD3	2.14	0.48
27:D2:36:ARG:NH2	55:DX:8:ILE:O	2.46	0.48
28:D3:39:ASP:O	28:D3:40:THR:C	2.57	0.48
29:D4:16:CYS:SG	29:D4:36:CYS:HB2	2.53	0.48
33:D8:50:LEU:HA	33:D8:53:PRO:CG	2.42	0.48
35:DA:89:G:C2'	35:DA:90:U:OP1	2.61	0.48
35:DA:857:C:O2	35:DA:857:C:C2'	2.62	0.48
35:DA:969:U:H2'	35:DA:970:C:C6	2.48	0.48
35:DA:2720:U:H3'	35:DA:2721:A:H8	1.78	0.48
35:DA:2861:G:O2'	35:DA:2862:G:H5'	2.14	0.48
36:DB:57:A:H1'	41:DG:29:TRP:O	2.13	0.48
41:DG:102:PHE:CE1	41:DG:106:LEU:HD23	2.48	0.48
41:DG:110:ALA:C	41:DG:112:PRO:HD2	2.38	0.48
48:DQ:134:ARG:HG2	48:DQ:134:ARG:O	2.12	0.48
52:DU:95:LEU:CD1	53:DV:11:GLN:HB2	2.43	0.48
53:DV:95:LEU:HD23	53:DV:95:LEU:C	2.39	0.48
54:DW:8:ARG:O	54:DW:9:TYR:HB2	2.12	0.48
55:DX:54:VAL:C	55:DX:55:ASN:HD22	2.21	0.48
56:DY:50:ARG:C	56:DY:52:SER:H	2.20	0.48
57:DZ:43:GLU:O	57:DZ:47:VAL:HG23	2.13	0.48
1:AA:363:A:OP2	12:AL:31:ARG:NH1	2.47	0.48
1:AA:390:C:H4'	16:AP:28:ARG:HH21	1.79	0.48
1:AA:673:G:C5'	6:AF:87:ARG:HE	2.27	0.48
1:AA:1106:G:H4'	3:AC:171:GLY:O	2.12	0.48
1:AA:1343:G:O2'	9:AI:121:ARG:HA	2.14	0.48
2:AB:15:VAL:HG21	2:AB:209:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:74:LYS:HD3	2:AB:165:VAL:HB	1.96	0.48
3:AC:101:LEU:HD23	3:AC:101:LEU:C	2.38	0.48
4:AD:133:VAL:HG13	4:AD:135:LEU:CD2	2.35	0.48
5:AE:12:LEU:HD13	5:AE:12:LEU:N	2.29	0.48
7:AG:40:ALA:O	7:AG:41:ARG:C	2.57	0.48
13:AM:91:ARG:HB2	13:AM:98:VAL:CG2	2.43	0.48
17:AQ:35:VAL:HG12	17:AQ:36:ILE:N	2.28	0.48
17:AQ:87:LYS:HZ3	17:AQ:87:LYS:HA	1.77	0.48
18:AR:58:LEU:HB3	18:AR:62:GLU:CB	2.43	0.48
19:AS:9:VAL:O	19:AS:11:VAL:N	2.46	0.48
20:AT:30:LYS:HA	20:AT:30:LYS:CE	2.44	0.48
20:AT:93:GLU:CD	20:AT:93:GLU:C	2.81	0.48
24:AY:15:THR:C	24:AY:17:ASN:N	2.68	0.48
25:B0:11:ARG:NH1	25:B0:11:ARG:CB	2.74	0.48
27:B2:35:LEU:HB3	27:B2:50:ILE:CD1	2.43	0.48
28:B3:26:LEU:CB	28:B3:28:LEU:HD23	2.43	0.48
32:B7:12:ARG:CD	32:B7:46:VAL:HG21	2.42	0.48
33:B8:59:LYS:C	33:B8:61:LEU:HD23	2.38	0.48
35:BA:306:U:H2'	35:BA:307:G:O4'	2.12	0.48
35:BA:542:C:H2'	35:BA:543:C:OP1	2.13	0.48
35:BA:639:U:H2'	35:BA:640:C:H6	1.78	0.48
35:BA:1281:G:H5'	35:BA:1281:G:C8	2.38	0.48
35:BA:1782:C:O2'	35:BA:2609:U:H5''	2.12	0.48
38:BD:85:ASP:HB2	38:BD:92:ILE:HD12	1.96	0.48
39:BE:5:LEU:HD22	39:BE:197:ILE:HG22	1.95	0.48
39:BE:34:VAL:HG11	39:BE:78:LEU:CD2	2.44	0.48
41:BG:19:LEU:H	41:BG:19:LEU:HD12	1.79	0.48
42:BH:12:PRO:HB2	42:BH:15:VAL:HG22	1.89	0.48
42:BH:45:VAL:HA	42:BH:50:VAL:HG22	1.95	0.48
43:BI:88:ILE:HD13	43:BI:142:VAL:HG12	1.95	0.48
45:BN:96:GLU:CD	45:BN:96:GLU:N	2.71	0.48
45:BN:99:LEU:O	45:BN:103:VAL:HG22	2.14	0.48
51:BT:30:VAL:HG22	51:BT:84:GLN:O	2.13	0.48
55:BX:72:LYS:HD3	55:BX:73:ARG:O	2.13	0.48
56:BY:26:LYS:O	56:BY:27:VAL:C	2.56	0.48
57:BZ:29:TYR:HB3	57:BZ:34:ASN:HD22	1.79	0.48
1:CA:158:G:O2'	1:CA:159:G:H5'	2.13	0.48
1:CA:528:C:O2'	1:CA:529:G:H5'	2.13	0.48
1:CA:544:G:H2'	1:CA:545:C:C6	2.49	0.48
1:CA:664:G:H22	1:CA:741:G:H1	1.61	0.48
1:CA:765:G:H21	1:CA:813:U:H5	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:12:GLU:HB3	2:CB:213:LEU:CD1	2.43	0.48
2:CB:15:VAL:HG21	2:CB:209:ARG:NH1	2.28	0.48
2:CB:34:ALA:HB1	2:CB:36:ARG:NH1	2.28	0.48
2:CB:187:LEU:HD13	2:CB:205:ASP:HA	1.94	0.48
6:CF:62:TRP:CG	18:CR:35:ARG:HH12	2.32	0.48
7:CG:77:SER:O	7:CG:78:ARG:HB2	2.12	0.48
9:CI:17:VAL:HG11	9:CI:81:ILE:HA	1.95	0.48
11:CK:43:SER:O	11:CK:44:SER:HB3	2.13	0.48
11:CK:95:ILE:O	11:CK:98:LEU:HB2	2.13	0.48
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.28	0.48
20:CT:26:ASN:OD1	20:CT:71:THR:HA	2.14	0.48
28:D3:35:ARG:HB3	28:D3:37:LEU:HD21	1.96	0.48
34:D9:27:CYS:HB3	34:D9:32:HIS:HB2	1.96	0.48
35:DA:1593:G:H2'	35:DA:1594:G:C8	2.49	0.48
35:DA:2155:G:C2'	35:DA:2156:G:H5'	2.39	0.48
37:DC:97:GLU:HA	37:DC:100:ILE:HG12	1.95	0.48
40:DF:137:LYS:O	40:DF:140:LEU:HB2	2.13	0.48
41:DG:6:ALA:HB3	41:DG:104:GLU:CD	2.39	0.48
41:DG:106:LEU:HA	41:DG:110:ALA:CB	2.44	0.48
42:DH:23:ARG:HD2	42:DH:25:LYS:HZ1	1.79	0.48
45:DN:10:GLU:CD	45:DN:11:PRO:HD2	2.38	0.48
47:DP:13:ASN:HD22	47:DP:14:LYS:N	2.10	0.48
47:DP:84:ASN:CG	47:DP:117:GLU:HB2	2.38	0.48
47:DP:115:LEU:HD23	47:DP:115:LEU:N	2.25	0.48
47:DP:146:VAL:CG2	47:DP:147:LEU:H	2.08	0.48
51:DT:19:LEU:HA	51:DT:20:PRO:HD3	1.60	0.48
51:DT:20:PRO:HD3	51:DT:85:LYS:HB3	1.94	0.48
52:DU:112:ARG:CG	52:DU:112:ARG:NH1	2.76	0.48
56:DY:13:VAL:HG21	56:DY:72:VAL:HB	1.94	0.48
56:DY:14:LEU:CD1	56:DY:15:VAL:H	2.24	0.48
56:DY:30:VAL:HG12	56:DY:31:LEU:N	2.27	0.48
56:DY:87:LYS:O	56:DY:88:LYS:HB2	2.14	0.48
1:AA:44:G:H2'	1:AA:45:U:O4'	2.13	0.48
1:AA:430:A:OP2	4:AD:8:VAL:HG22	2.13	0.48
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.44	0.48
1:AA:640:A:O2'	1:AA:641:U:H5'	2.14	0.48
1:AA:741:G:H5''	15:AO:59:MET:HE1	1.95	0.48
1:AA:751:U:H2'	1:AA:752:G:O4'	2.14	0.48
1:AA:1030(A):G:H22	1:AA:1032:G:N2	2.11	0.48
1:AA:1287:A:H2'	1:AA:1288:A:H8	1.76	0.48
2:AB:213:LEU:O	2:AB:213:LEU:HD23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:18:LYS:NZ	4:AD:31:CYS:CB	2.77	0.48
8:AH:91:ARG:CG	8:AH:91:ARG:NH1	2.75	0.48
13:AM:22:ILE:HB	13:AM:25:ILE:HB	1.95	0.48
15:AO:36:ILE:HD12	15:AO:63:ARG:HD3	1.96	0.48
22:AV:71:C:H2'	22:AV:72:A:O4'	2.14	0.48
25:B0:23:VAL:HG12	25:B0:25:ARG:O	2.14	0.48
25:B0:43:THR:CG2	35:BA:2332:U:H5'	2.44	0.48
26:B1:82:LEU:C	26:B1:83:GLU:HG2	2.38	0.48
29:B4:46:GLN:O	29:B4:47:GLN:HG2	2.13	0.48
33:B8:28:GLY:O	33:B8:32:LEU:HG	2.14	0.48
33:B8:46:ARG:HG2	33:B8:46:ARG:HH11	1.78	0.48
35:BA:394:A:O2'	35:BA:395:U:H5'	2.14	0.48
35:BA:1373:A:H2'	35:BA:1374:G:O4'	2.14	0.48
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.12	0.48
35:BA:1493:C:H4'	35:BA:1494:A:OP1	2.12	0.48
35:BA:1510:G:O2'	35:BA:1511:C:H5'	2.13	0.48
35:BA:1858:G:O2'	35:BA:1884:A:N6	2.47	0.48
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.67	0.48
35:BA:2195:C:O2'	35:BA:2196:C:H5'	2.14	0.48
38:BD:70:TRP:O	38:BD:73:VAL:HG23	2.13	0.48
38:BD:125:ILE:HD11	38:BD:136:ILE:HA	1.96	0.48
38:BD:148:GLU:HB2	38:BD:151:LYS:HD2	1.94	0.48
38:BD:206:LEU:HD22	38:BD:211:ARG:HG3	1.95	0.48
38:BD:221:VAL:CG2	38:BD:226:MET:HE3	2.35	0.48
39:BE:117:MET:O	39:BE:121:ASN:N	2.44	0.48
40:BF:155:LEU:HD22	40:BF:186:ILE:HA	1.95	0.48
41:BG:19:LEU:HD12	41:BG:19:LEU:N	2.28	0.48
42:BH:105:LEU:N	42:BH:105:LEU:HD23	2.29	0.48
43:BI:88:ILE:HG12	43:BI:92:VAL:HG21	1.95	0.48
45:BN:16:ILE:CG2	45:BN:54:VAL:HG22	2.44	0.48
45:BN:89:LYS:HB3	45:BN:89:LYS:HZ2	1.78	0.48
46:BO:34:THR:OG1	46:BO:35:VAL:N	2.43	0.48
47:BP:47:ASP:HB3	47:BP:48:PRO:C	2.38	0.48
47:BP:125:VAL:CG1	47:BP:138:LEU:HD21	2.43	0.48
50:BS:54:LEU:O	50:BS:54:LEU:HD13	2.14	0.48
53:BV:23:GLU:O	53:BV:24:LYS:C	2.57	0.48
55:BX:70:LEU:HD23	55:BX:70:LEU:C	2.39	0.48
56:BY:44:ILE:HG22	56:BY:45:VAL:N	2.29	0.48
57:BZ:137:ILE:O	57:BZ:138:GLU:O	2.31	0.48
57:BZ:145:GLU:OE1	57:BZ:145:GLU:HA	2.13	0.48
1:CA:39:G:O2'	1:CA:40:C:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:236:G:H2'	1:CA:237:C:H6	1.78	0.48
1:CA:884:U:H4'	1:CA:885:G:C5'	2.43	0.48
1:CA:1492:A:H2	12:CL:47:SER:HB3	1.79	0.48
1:CA:1516:G:C2'	1:CA:1517:G:C5'	2.92	0.48
2:CB:21:ARG:HA	2:CB:40:HIS:CE1	2.49	0.48
2:CB:61:LEU:HD11	2:CB:160:ASP:HB2	1.95	0.48
2:CB:177:ALA:O	2:CB:180:LEU:HB2	2.14	0.48
3:CC:148:GLY:CA	3:CC:203:PHE:HB3	2.43	0.48
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.72	0.48
6:CF:87:ARG:HB2	6:CF:87:ARG:HH11	1.78	0.48
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.47	0.48
10:CJ:16:LEU:HD21	10:CJ:94:VAL:HG13	1.96	0.48
11:CK:17:GLY:CA	11:CK:80:VAL:HG12	2.43	0.48
13:CM:57:ARG:NH1	29:D4:34:GLU:HG3	2.29	0.48
15:CO:11:VAL:O	15:CO:14:GLU:HB3	2.13	0.48
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.44	0.48
22:CV:1:C:H2'	22:CV:2:G:H5'	1.95	0.48
22:CW:20:U:H5'	22:CW:21:A:OP1	2.14	0.48
25:D0:36:ILE:HD12	25:D0:38:VAL:N	2.28	0.48
30:D5:2:ALA:N	35:DA:747:U:N3	2.62	0.48
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.94	0.48
35:DA:475:U:O5'	35:DA:475:U:H6	1.96	0.48
35:DA:1144:G:H2'	35:DA:1145:C:C6	2.48	0.48
35:DA:1790:C:H5''	35:DA:1791:A:OP1	2.12	0.48
35:DA:1858:G:O2'	35:DA:1884:A:N6	2.46	0.48
35:DA:2039:C:O2'	35:DA:2040:C:H5'	2.12	0.48
35:DA:2178:C:C3'	35:DA:2179:C:H5''	2.41	0.48
35:DA:2272:U:H5''	35:DA:2273:A:OP1	2.14	0.48
35:DA:2702:U:H4'	35:DA:2703:C:OP1	2.14	0.48
38:DD:2:ALA:O	38:DD:3:VAL:HB	2.13	0.48
38:DD:125:ILE:C	38:DD:126:GLN:HG3	2.38	0.48
38:DD:267:SER:O	38:DD:270:ILE:HG13	2.14	0.48
40:DF:22:ALA:O	40:DF:26:ALA:CB	2.54	0.48
40:DF:202:PHE:CE1	40:DF:206:ILE:HD11	2.48	0.48
41:DG:32:PRO:C	41:DG:172:LEU:HD22	2.39	0.48
41:DG:112:PRO:HG2	41:DG:113:ARG:HA	1.96	0.48
41:DG:167:GLU:N	41:DG:167:GLU:CD	2.71	0.48
42:DH:8:PRO:C	42:DH:9:ILE:CG2	2.60	0.48
42:DH:68:THR:O	42:DH:70:THR:N	2.47	0.48
43:DI:33:ARG:HB2	43:DI:35:LEU:HG	1.95	0.48
45:DN:67:LEU:O	45:DN:68:GLU:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:18:ARG:O	47:DP:20:GLY:N	2.47	0.48
48:DQ:130:LYS:HZ3	57:DZ:80:ARG:HD3	1.76	0.48
48:DQ:133:ARG:O	48:DQ:134:ARG:HB2	2.12	0.48
53:DV:23:GLU:O	53:DV:24:LYS:C	2.56	0.48
53:DV:45:THR:O	53:DV:46:VAL:HG12	2.13	0.48
57:DZ:35:ARG:NE	57:DZ:35:ARG:CA	2.74	0.48
1:AA:17:U:H2'	1:AA:18:C:H6	1.78	0.48
1:AA:328:C:O2	1:AA:328:C:H2'	2.13	0.48
1:AA:436:C:H4'	4:AD:157:LEU:HD11	1.95	0.48
1:AA:599:C:H2'	1:AA:600:C:C6	2.49	0.48
1:AA:720:C:H5'	18:AR:50:ILE:O	2.13	0.48
1:AA:765:G:H21	1:AA:813:U:H5	1.61	0.48
1:AA:824:C:H1'	8:AH:1:MET:HE2	1.94	0.48
2:AB:76:GLN:HG2	2:AB:206:ASP:O	2.13	0.48
3:AC:36:ASP:HB3	3:AC:40:ARG:HH12	1.78	0.48
3:AC:53:ALA:O	3:AC:55:VAL:HG23	2.14	0.48
3:AC:93:LYS:HB2	3:AC:93:LYS:NZ	2.07	0.48
4:AD:11:LEU:HD12	4:AD:21:LEU:HD13	1.95	0.48
7:AG:119:ARG:C	7:AG:121:ALA:N	2.71	0.48
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.82	0.48
13:AM:69:GLU:HA	13:AM:70:LEU:N	2.29	0.48
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.14	0.48
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.49	0.48
18:AR:71:LYS:CA	18:AR:74:ARG:HG3	2.42	0.48
21:AU:24:ARG:HG2	21:AU:24:ARG:NH1	2.25	0.48
25:B0:2:ALA:HB2	35:BA:2452:C:OP1	2.14	0.48
25:B0:41:ARG:HE	35:BA:2387:U:H1'	1.79	0.48
27:B2:47:ASN:O	27:B2:48:HIS:C	2.56	0.48
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.49	0.48
32:B7:29:LYS:O	32:B7:33:ARG:HG3	2.14	0.48
35:BA:634:C:H2'	35:BA:635:C:C6	2.48	0.48
35:BA:691:C:C1'	38:BD:43:ARG:HH21	2.27	0.48
35:BA:1142:U:H5''	35:BA:1142(A):A:C8	2.48	0.48
35:BA:1210:A:H5'	35:BA:1210:A:C8	2.47	0.48
35:BA:2745:C:H2'	35:BA:2746:U:H6	1.79	0.48
36:BB:18:G:H1	36:BB:65:C:H42	1.61	0.48
38:BD:48:ARG:HG3	38:BD:48:ARG:HH11	1.78	0.48
41:BG:86:MET:O	41:BG:86:MET:HG3	2.13	0.48
43:BI:54:GLN:HA	43:BI:54:GLN:OE1	2.14	0.48
46:BO:7:TYR:CZ	46:BO:44:LYS:HG3	2.48	0.48
46:BO:90:GLN:CD	46:BO:90:GLN:N	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:64:MET:CE	54:BW:109:GLU:HG2	2.42	0.48
1:CA:116:A:H2'	1:CA:117:G:O4'	2.14	0.48
1:CA:503:C:H2'	1:CA:504:C:C6	2.48	0.48
1:CA:583:A:O2'	17:CQ:91:ARG:HG3	2.14	0.48
1:CA:588:G:H2'	1:CA:589:C:C5	2.49	0.48
1:CA:724:G:H2'	1:CA:725:G:H8	1.77	0.48
1:CA:763:G:H2'	1:CA:764:C:C6	2.48	0.48
1:CA:1051:C:H42	1:CA:1207:G:H1	1.61	0.48
1:CA:1071:C:H5''	5:CE:49:PRO:CD	2.43	0.48
1:CA:1224:G:C4'	13:CM:102:ARG:HH21	2.26	0.48
1:CA:1294:G:H2'	1:CA:1295:G:H8	1.79	0.48
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.82	0.48
3:CC:76:VAL:O	3:CC:84:ILE:HB	2.14	0.48
4:CD:114:ARG:NH1	4:CD:114:ARG:CG	2.74	0.48
5:CE:70:PRO:CB	5:CE:144:THR:HG22	2.43	0.48
6:CF:70:ASP:C	6:CF:72:VAL:H	2.22	0.48
7:CG:11:GLN:NE2	7:CG:12:LEU:H	2.12	0.48
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.75	0.48
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	2.11	0.48
11:CK:59:TYR:O	11:CK:62:GLN:HB3	2.13	0.48
19:CS:36:ARG:HE	19:CS:72:GLY:HA3	1.79	0.48
20:CT:32:ALA:O	20:CT:36:LEU:HD23	2.14	0.48
22:CV:4:G:O2'	22:CV:5:G:C8	2.55	0.48
30:D5:6:VAL:HG13	35:DA:2016:U:H1'	1.95	0.48
33:D8:23:VAL:HG12	33:D8:46:ARG:HB3	1.95	0.48
35:DA:154(A):C:O2	35:DA:154(A):C:O4'	2.29	0.48
35:DA:534:U:O2'	52:DU:49:HIS:HD2	1.97	0.48
35:DA:863:A:O2'	35:DA:864:G:H5'	2.14	0.48
35:DA:1026:U:H5'	35:DA:1027:A:OP2	2.14	0.48
35:DA:1297:C:H2'	35:DA:1298:C:C6	2.49	0.48
35:DA:1338:G:O2'	35:DA:1339:G:H5'	2.13	0.48
35:DA:2580:U:H5'	39:DE:131:ALA:N	2.27	0.48
36:DB:110:G:H2'	36:DB:111:G:C8	2.48	0.48
37:DC:192:PHE:HA	37:DC:196:LEU:CB	2.44	0.48
38:DD:262:ARG:C	38:DD:264:LYS:H	2.20	0.48
41:DG:100:TRP:C	41:DG:102:PHE:H	2.21	0.48
42:DH:94:TYR:HA	42:DH:107:VAL:HG12	1.94	0.48
43:DI:9:LEU:HD12	43:DI:10:GLU:H	1.79	0.48
43:DI:62:LYS:HA	43:DI:133:HIS:CD2	2.48	0.48
43:DI:140:LEU:HD23	43:DI:141:LYS:N	2.29	0.48
48:DQ:21:THR:C	48:DQ:23:GLY:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:54:MET:HB3	48:DQ:64:ILE:HD13	1.96	0.48
49:DR:103:ARG:HH11	49:DR:103:ARG:HG2	1.78	0.48
50:DS:54:LEU:O	50:DS:54:LEU:HD13	2.14	0.48
51:DT:105:LEU:HB2	51:DT:110:ILE:HD13	1.94	0.48
52:DU:48:ALA:O	52:DU:52:ARG:HG3	2.13	0.48
52:DU:91:ASP:OD2	52:DU:96:ALA:HB2	2.14	0.48
53:DV:41:GLY:HA3	53:DV:45:THR:OG1	2.14	0.48
56:DY:28:LYS:O	56:DY:29:GLU:O	2.32	0.48
1:AA:1054:C:O2	1:AA:1054:C:C2'	2.62	0.48
2:AB:219:VAL:HG12	2:AB:219:VAL:O	2.14	0.48
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.14	0.48
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.29	0.48
4:AD:67:ILE:HG22	4:AD:68:TYR:N	2.27	0.48
8:AH:34:GLU:HB2	8:AH:118:VAL:HG21	1.95	0.48
9:AI:7:THR:HG22	9:AI:8:GLY:N	2.29	0.48
13:AM:81:LEU:C	13:AM:83:ASP:H	2.22	0.48
22:AV:53:G:H8	22:AV:53:G:H5'	1.78	0.48
27:B2:5:GLU:O	27:B2:8:LYS:HB2	2.13	0.48
35:BA:74:A:H4'	35:BA:75:G:O5'	2.14	0.48
35:BA:775:G:O2'	35:BA:776:G:OP2	2.28	0.48
35:BA:1027:A:C2	35:BA:2488:A:H5'	2.49	0.48
35:BA:1204:A:N1	35:BA:1241:A:C2	2.82	0.48
35:BA:1502:C:H2'	35:BA:1503:U:C6	2.48	0.48
35:BA:2339:G:H2'	35:BA:2340:G:C8	2.49	0.48
35:BA:2467:C:H4'	48:BQ:123:HIS:CD2	2.49	0.48
35:BA:2758:A:H2'	35:BA:2759:G:O4'	2.13	0.48
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.78	0.48
36:BB:59:A:H2'	36:BB:60:C:C6	2.49	0.48
37:BC:97:GLU:HA	37:BC:100:ILE:HG12	1.96	0.48
39:BE:170:LEU:HD22	39:BE:170:LEU:N	2.29	0.48
41:BG:173:LEU:HB3	41:BG:178:PHE:CG	2.49	0.48
43:BI:25:TYR:HE2	43:BI:29:TYR:CD2	2.32	0.48
43:BI:114:LEU:C	43:BI:116:LEU:N	2.72	0.48
48:BQ:35:VAL:HG23	48:BQ:101:ARG:O	2.14	0.48
49:BR:72:ASP:HB3	49:BR:75:LEU:HB3	1.96	0.48
50:BS:64:GLU:O	50:BS:68:GLN:HG3	2.13	0.48
51:BT:28:VAL:HG13	51:BT:46:GLU:N	2.29	0.48
53:BV:39:LEU:CD1	53:BV:51:VAL:HA	2.43	0.48
54:BW:5:ALA:CB	54:BW:50:VAL:HG23	2.37	0.48
56:BY:81:LYS:HG2	56:BY:97:ARG:HE	1.79	0.48
56:BY:84:ARG:HH12	56:BY:97:ARG:CB	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:103:ARG:HD2	57:BZ:136:PHE:CB	2.44	0.48
1:CA:4:U:O2	1:CA:4:U:C2'	2.60	0.48
1:CA:11:G:C5	1:CA:12:U:C4	3.02	0.48
1:CA:18:C:O2'	1:CA:19:C:H5'	2.14	0.48
1:CA:197:A:H1'	1:CA:198:G:O4'	2.14	0.48
1:CA:766:A:H61	1:CA:1511:G:H1'	1.79	0.48
1:CA:1006:C:H2'	1:CA:1007:C:C4	2.49	0.48
1:CA:1225:A:P	13:CM:102:ARG:HD3	2.54	0.48
2:CB:80:ILE:HG21	2:CB:211:ILE:HG22	1.96	0.48
2:CB:164:VAL:O	2:CB:186:ALA:HB1	2.14	0.48
2:CB:167:PRO:HG2	2:CB:192:SER:HB2	1.96	0.48
3:CC:6:HIS:NE2	3:CC:8:ILE:HG12	2.29	0.48
3:CC:57:ILE:CG1	3:CC:66:VAL:HG13	2.41	0.48
3:CC:59:ARG:CD	3:CC:64:VAL:HG22	2.43	0.48
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.95	0.48
4:CD:108:LEU:HD12	4:CD:174:LEU:HD13	1.95	0.48
7:CG:26:PHE:CZ	7:CG:30:ILE:HD11	2.48	0.48
12:CL:117:TYR:C	12:CL:119:THR:H	2.22	0.48
14:CN:17:LYS:HG3	14:CN:18:VAL:N	2.29	0.48
25:D0:26:TYR:H	25:D0:29:GLN:NE2	2.12	0.48
35:DA:996:A:O4'	52:DU:92:ARG:NH2	2.47	0.48
35:DA:1129:A:H2	35:DA:2569:G:N3	2.12	0.48
35:DA:1765:C:O2'	35:DA:1766:U:H5'	2.14	0.48
35:DA:1767:C:O2'	35:DA:1768:U:H5'	2.14	0.48
35:DA:1804:C:O5'	35:DA:1804:C:H6	1.96	0.48
35:DA:2142:C:N4	35:DA:2148:G:H1	2.12	0.48
35:DA:2660:A:C2	35:DA:2661:G:H1'	2.48	0.48
35:DA:2678:C:C2	35:DA:2679:A:C8	3.02	0.48
40:DF:126:VAL:O	40:DF:196:LEU:HG	2.13	0.48
42:DH:105:LEU:HD23	42:DH:105:LEU:N	2.29	0.48
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.14	0.48
45:DN:126:PRO:O	45:DN:127:ASP:HB2	2.14	0.48
51:DT:38:ASN:C	51:DT:38:ASN:HD22	2.21	0.48
53:DV:28:GLU:O	53:DV:61:VAL:CG2	2.61	0.48
55:DX:50:LYS:CB	55:DX:87:GLN:HE22	2.27	0.48
57:DZ:5:LEU:HD12	57:DZ:47:VAL:CG2	2.38	0.48
57:DZ:38:TYR:O	57:DZ:39:VAL:O	2.31	0.48
57:DZ:150:LEU:H	57:DZ:150:LEU:CD2	2.26	0.48
57:DZ:178:GLU:O	57:DZ:179:ASP:HB3	2.13	0.48
1:AA:56:U:H2'	1:AA:57:G:H8	1.79	0.48
1:AA:358:U:O2'	1:AA:359:U:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:523:A:H61	12:AL:50:ARG:NH1	2.12	0.48
1:AA:726:C:H2'	1:AA:727:G:C8	2.44	0.48
1:AA:1522:U:O2'	1:AA:1523:G:H5'	2.13	0.48
2:AB:108:ILE:HG22	2:AB:108:ILE:O	2.14	0.48
2:AB:144:ARG:O	2:AB:147:LYS:HB3	2.13	0.48
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.12	0.48
3:AC:90:GLU:HA	3:AC:93:LYS:HZ1	1.79	0.48
7:AG:146:GLU:O	7:AG:149:ARG:HB2	2.13	0.48
8:AH:122:ARG:O	8:AH:126:LYS:HB2	2.14	0.48
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.56	0.48
11:AK:106:LYS:O	11:AK:107:SER:HB2	2.13	0.48
12:AL:88:LYS:O	12:AL:89:ASP:HB2	2.14	0.48
13:AM:57:ARG:HH22	29:B4:34:GLU:HB3	1.79	0.48
14:AN:21:TYR:HE2	14:AN:23:ARG:NH2	2.12	0.48
18:AR:67:ALA:O	18:AR:68:LYS:C	2.57	0.48
18:AR:76:LEU:C	18:AR:78:LEU:H	2.20	0.48
22:AW:33:U:H1'	22:AW:36:U:O4	2.13	0.48
23:AX:21:C:C2'	23:AX:22:A:C2	2.93	0.48
24:AY:49:ARG:O	24:AY:66:ALA:HB3	2.11	0.48
35:BA:154(A):C:N4	35:BA:171:G:H1	2.11	0.48
35:BA:270:A:O2'	35:BA:271:A:H5'	2.13	0.48
35:BA:272(J):C:H5	35:BA:274:G:N1	2.12	0.48
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.96	0.48
35:BA:1590:U:H2'	35:BA:1591:G:H8	1.79	0.48
35:BA:1844:C:H5'	38:BD:256:GLY:O	2.14	0.48
35:BA:2360:A:O2'	35:BA:2361:A:O4'	2.25	0.48
35:BA:2392:A:H8	47:BP:60:MET:CB	2.26	0.48
35:BA:2579:C:H1'	39:BE:134:ILE:CD1	2.44	0.48
39:BE:104:VAL:HG12	39:BE:196:VAL:CG2	2.43	0.48
40:BF:24:LEU:HD12	40:BF:25:PRO:HD3	1.95	0.48
40:BF:126:VAL:O	40:BF:196:LEU:HG	2.14	0.48
42:BH:10:PRO:HD2	42:BH:50:VAL:O	2.13	0.48
42:BH:68:THR:O	42:BH:70:THR:N	2.47	0.48
43:BI:11:ASN:O	43:BI:12:LEU:HD23	2.13	0.48
43:BI:131:LYS:HD3	43:BI:135:GLU:HG3	1.96	0.48
45:BN:68:GLU:O	45:BN:69:GLN:CG	2.62	0.48
45:BN:119:ARG:NH1	45:BN:119:ARG:HG3	2.29	0.48
47:BP:17:LYS:C	47:BP:19:VAL:H	2.22	0.48
47:BP:66:GLY:O	47:BP:67:MET:HB3	2.14	0.48
47:BP:143:GLY:O	47:BP:144:GLU:HB3	2.14	0.48
48:BQ:137:TYR:HE1	57:BZ:81:ARG:HH22	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:49:ASP:C	49:BR:51:LEU:N	2.71	0.48
50:BS:68:GLN:C	50:BS:70:GLY:N	2.72	0.48
51:BT:53:ARG:HB2	51:BT:53:ARG:NH1	2.14	0.48
53:BV:39:LEU:HD12	53:BV:47:VAL:CG1	2.35	0.48
56:BY:4:LYS:HZ2	56:BY:5:MET:HG2	1.78	0.48
56:BY:15:VAL:HG12	56:BY:15:VAL:O	2.13	0.48
56:BY:39:VAL:HG12	56:BY:40:GLU:H	1.78	0.48
57:BZ:179:ASP:CG	57:BZ:180:VAL:N	2.68	0.48
1:CA:1206:G:O6	1:CA:1207:G:C6	2.67	0.48
1:CA:1352:C:H2'	1:CA:1353:G:H8	1.79	0.48
3:CC:148:GLY:N	3:CC:203:PHE:HB3	2.29	0.48
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.28	0.48
9:CI:7:THR:HG22	9:CI:8:GLY:N	2.28	0.48
12:CL:107:VAL:HG23	12:CL:117:TYR:HB3	1.96	0.48
17:CQ:78:GLU:OE2	17:CQ:81:ARG:NH1	2.47	0.48
22:CV:53:G:N2	22:CV:62:C:O2	2.47	0.48
27:D2:45:SER:C	27:D2:46:GLN:NE2	2.72	0.48
33:D8:29:LYS:O	33:D8:30:ARG:CB	2.61	0.48
35:DA:244:A:C2	35:DA:255:A:C4	3.02	0.48
35:DA:322:A:H5'	35:DA:340:A:H1'	1.95	0.48
35:DA:939:G:O2'	35:DA:940:G:H5'	2.13	0.48
35:DA:1557:C:H2'	35:DA:1558:A:C2	2.49	0.48
35:DA:1912:A:C2	35:DA:1919:A:C5	2.99	0.48
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.49	0.48
35:DA:2601:C:H2'	35:DA:2603:G:C8	2.49	0.48
36:DB:17:C:O2'	36:DB:18:G:H5'	2.14	0.48
39:DE:34:VAL:HG11	39:DE:78:LEU:CD2	2.44	0.48
42:DH:25:LYS:N	42:DH:25:LYS:HD2	2.28	0.48
42:DH:64:LEU:HD22	42:DH:64:LEU:N	2.29	0.48
43:DI:11:ASN:O	43:DI:12:LEU:HD23	2.13	0.48
43:DI:128:LEU:O	43:DI:137:PRO:HA	2.13	0.48
45:DN:24:GLY:HA2	45:DN:27:ALA:CB	2.43	0.48
47:DP:16:ARG:HG3	47:DP:17:LYS:H	1.79	0.48
50:DS:17:ARG:HA	50:DS:20:ARG:HH22	1.77	0.48
52:DU:11:ARG:HH11	52:DU:11:ARG:HG3	1.79	0.48
54:DW:12:ILE:CD1	54:DW:17:VAL:HG22	2.44	0.48
57:DZ:31:ARG:HG3	57:DZ:32:HIS:H	1.79	0.48
1:AA:403:C:O2'	1:AA:404:U:H5'	2.14	0.47
1:AA:614:A:H8	1:AA:614:A:H5'	1.79	0.47
1:AA:708:C:H2'	1:AA:709:G:C8	2.48	0.47
1:AA:1296:C:H4'	1:AA:1302:U:O4	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:41:ILE:HG22	2:AB:41:ILE:O	2.13	0.47
3:AC:182:ILE:HD11	3:AC:203:PHE:HD1	1.78	0.47
4:AD:109:GLY:O	4:AD:111:ALA:N	2.47	0.47
5:AE:103:GLY:N	5:AE:106:PRO:HG2	2.29	0.47
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.96	0.47
17:AQ:87:LYS:HB3	17:AQ:87:LYS:NZ	2.28	0.47
18:AR:45:SER:HA	18:AR:51:LEU:HD11	1.96	0.47
18:AR:52:PRO:O	18:AR:56:THR:HG23	2.13	0.47
19:AS:41:VAL:O	19:AS:42:PRO:O	2.32	0.47
24:AY:32:PRO:HD3	24:AY:95:TYR:CE1	2.49	0.47
24:AY:64:TYR:N	24:AY:64:TYR:CD2	2.81	0.47
35:BA:1385:G:HO2'	35:BA:1396:U:H6	1.60	0.47
35:BA:2136:C:N4	35:BA:2155:G:N1	2.61	0.47
35:BA:2765:A:H2	35:BA:2766:G:O4'	1.97	0.47
35:BA:2846:G:H2'	35:BA:2847:U:C6	2.48	0.47
36:BB:80:U:O2'	36:BB:81:G:H5''	2.14	0.47
38:BD:85:ASP:OD2	38:BD:88:ARG:HG2	2.13	0.47
38:BD:173:VAL:HG22	38:BD:174:ILE:H	1.78	0.47
40:BF:53:THR:O	40:BF:55:GLY:N	2.46	0.47
41:BG:57:ALA:HA	41:BG:90:LEU:HD21	1.96	0.47
41:BG:106:LEU:HD12	41:BG:106:LEU:C	2.39	0.47
43:BI:37:VAL:CG1	43:BI:38:LEU:N	2.77	0.47
47:BP:48:PRO:C	47:BP:50:ARG:N	2.70	0.47
47:BP:101:VAL:HB	47:BP:107:LYS:HA	1.96	0.47
51:BT:46:GLU:OE2	51:BT:88:ILE:HG13	2.14	0.47
53:BV:28:GLU:O	53:BV:61:VAL:CG2	2.62	0.47
1:CA:22:G:O2'	1:CA:23:C:H5'	2.14	0.47
1:CA:660:G:H2'	1:CA:661:G:C8	2.48	0.47
1:CA:869:G:H4'	1:CA:872:A:C8	2.49	0.47
1:CA:1189:C:OP1	10:CJ:51:ARG:NH2	2.46	0.47
1:CA:1206:G:C5	1:CA:1207:G:C5	3.02	0.47
1:CA:1230:C:O2'	1:CA:1231:G:H5'	2.14	0.47
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.48	0.47
1:CA:1511:G:H8	1:CA:1511:G:O5'	1.97	0.47
2:CB:23:ARG:O	2:CB:23:ARG:HG3	2.14	0.47
3:CC:35:GLU:HA	3:CC:38:ARG:CD	2.44	0.47
8:CH:85:ARG:CZ	8:CH:87:SER:O	2.63	0.47
9:CI:11:LYS:O	9:CI:13:ALA:N	2.47	0.47
12:CL:19:SER:C	12:CL:21:VAL:H	2.21	0.47
13:CM:99:ARG:HB3	13:CM:101:GLN:NE2	2.29	0.47
15:CO:36:ILE:HG22	15:CO:37:ASN:HD22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:48:TRP:O	16:CP:49:LEU:C	2.57	0.47
18:CR:45:SER:HA	18:CR:51:LEU:HD11	1.95	0.47
18:CR:52:PRO:O	18:CR:56:THR:HG23	2.14	0.47
19:CS:11:VAL:HA	19:CS:38:SER:HB2	1.95	0.47
21:CU:9:ARG:HH12	21:CU:23:PRO:HD2	1.79	0.47
22:CV:24:U:O2'	35:DA:1923:U:H5''	2.14	0.47
22:CW:72:A:O2'	22:CW:73:A:H5'	2.13	0.47
33:D8:59:LYS:C	33:D8:61:LEU:HD23	2.39	0.47
35:DA:200:U:O2	35:DA:386:G:N2	2.47	0.47
35:DA:830:G:H4'	35:DA:831:G:OP2	2.13	0.47
35:DA:904:C:H2'	35:DA:905:U:C6	2.49	0.47
35:DA:1188:U:C5'	53:DV:79:VAL:HG22	2.44	0.47
35:DA:2123:G:H2'	35:DA:2124:G:H8	1.78	0.47
35:DA:2343:C:O2'	35:DA:2344:U:H5'	2.14	0.47
35:DA:2745:C:H2'	35:DA:2746:U:H6	1.79	0.47
35:DA:2786:U:H2'	35:DA:2787:C:H6	1.79	0.47
38:DD:133:LEU:O	38:DD:135:PHE:N	2.46	0.47
39:DE:67:PHE:O	39:DE:70:ALA:HB2	2.14	0.47
40:DF:116:ASP:OD1	40:DF:119:ARG:NH2	2.47	0.47
40:DF:118:ALA:HB2	40:DF:123:LEU:HD23	1.96	0.47
41:DG:22:ARG:NH1	41:DG:175:LEU:HD11	2.30	0.47
43:DI:2:LYS:CB	43:DI:39:ALA:HB3	2.43	0.47
43:DI:40:THR:O	43:DI:41:GLU:C	2.57	0.47
47:DP:18:ARG:HH11	47:DP:18:ARG:CA	2.26	0.47
49:DR:85:PRO:O	49:DR:86:ARG:C	2.57	0.47
49:DR:103:ARG:HG2	49:DR:103:ARG:NH1	2.28	0.47
50:DS:90:GLY:C	50:DS:92:TYR:H	2.22	0.47
53:DV:2:PHE:CB	53:DV:42:GLY:N	2.76	0.47
56:DY:54:LYS:O	56:DY:55:TYR:O	2.32	0.47
1:AA:66:G:H4'	1:AA:173:U:C4	2.49	0.47
1:AA:93:G:C6	1:AA:96:U:C4	3.02	0.47
1:AA:148:G:H2'	1:AA:149:A:C8	2.49	0.47
1:AA:314:C:O2'	1:AA:315:A:H5'	2.13	0.47
1:AA:523:A:H61	12:AL:50:ARG:HH12	1.62	0.47
1:AA:722:A:H2'	1:AA:724:G:C8	2.49	0.47
1:AA:1399:C:C4'	1:AA:1400:C:C5'	2.71	0.47
2:AB:100:GLY:O	2:AB:102:LEU:N	2.47	0.47
3:AC:119:ARG:HD3	3:AC:119:ARG:C	2.39	0.47
3:AC:148:GLY:N	3:AC:203:PHE:HB3	2.29	0.47
6:AF:70:ASP:C	6:AF:72:VAL:H	2.21	0.47
7:AG:147:ALA:C	7:AG:148:ASN:HD22	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:104:ARG:C	8:AH:106:GLY:H	2.22	0.47
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.79	0.47
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	1.97	0.47
13:AM:14:ARG:HB2	13:AM:16:ASP:OD2	2.14	0.47
13:AM:99:ARG:HB3	13:AM:101:GLN:NE2	2.29	0.47
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.42	0.47
16:AP:6:LEU:HD23	16:AP:17:TYR:CD2	2.49	0.47
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.97	0.47
19:AS:11:VAL:HA	19:AS:38:SER:HB2	1.95	0.47
24:AY:17:ASN:O	24:AY:19:LYS:HG3	2.14	0.47
29:B4:4:GLY:O	29:B4:5:ILE:HG23	2.14	0.47
30:B5:20:ARG:HH12	54:BW:15:ARG:NE	2.10	0.47
35:BA:300:A:OP1	56:BY:84:ARG:NH2	2.47	0.47
35:BA:319:C:H2'	35:BA:320:A:O4'	2.14	0.47
35:BA:573:G:O2'	35:BA:574:C:H3'	2.13	0.47
35:BA:971:C:C2'	35:BA:972:G:H5'	2.44	0.47
35:BA:1191:G:O2'	35:BA:1192:G:H5'	2.13	0.47
35:BA:1218:C:C2'	35:BA:1219:G:H5'	2.44	0.47
35:BA:1221(A):C:O2'	35:BA:1222:C:H5'	2.15	0.47
35:BA:2580:U:H5'	39:BE:131:ALA:CB	2.44	0.47
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.14	0.47
36:BB:29:A:H2'	36:BB:30:C:O4'	2.14	0.47
39:BE:199:ARG:HB2	39:BE:199:ARG:NH1	2.29	0.47
41:BG:83:ARG:HH11	41:BG:84:LYS:NZ	2.12	0.47
51:BT:77:PRO:O	51:BT:78:LEU:CB	2.62	0.47
51:BT:105:LEU:HB2	51:BT:110:ILE:HD13	1.95	0.47
53:BV:5:VAL:CG2	53:BV:35:LEU:HB3	2.45	0.47
53:BV:62:LEU:HD21	53:BV:95:LEU:HB2	1.95	0.47
1:CA:17:U:H2'	1:CA:18:C:H6	1.75	0.47
1:CA:22:G:H2'	1:CA:23:C:C6	2.49	0.47
1:CA:182:U:H2'	1:CA:183:G:H5'	1.96	0.47
1:CA:255:G:H5'	17:CQ:16:GLN:O	2.14	0.47
1:CA:401:C:H6	1:CA:401:C:C4'	2.23	0.47
1:CA:552:U:O2	12:CL:28:PRO:HB3	2.14	0.47
1:CA:660:G:C4	1:CA:661:G:C8	3.02	0.47
1:CA:837:G:O2'	1:CA:838:G:O4'	2.30	0.47
1:CA:987:G:H2'	1:CA:988:G:H8	1.79	0.47
1:CA:1480:G:O2'	1:CA:1481:U:H5'	2.14	0.47
2:CB:41:ILE:O	2:CB:41:ILE:HG22	2.14	0.47
5:CE:39:GLY:HA3	5:CE:71:LEU:HD11	1.95	0.47
12:CL:2:PRO:O	12:CL:3:THR:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:38:GLY:C	13:CM:39:ILE:HD12	2.39	0.47
17:CQ:4:LYS:HD3	17:CQ:5:VAL:N	2.28	0.47
17:CQ:45:HIS:NE2	17:CQ:47:PRO:HD3	2.30	0.47
19:CS:31:ILE:HG21	19:CS:49:ILE:HG22	1.95	0.47
20:CT:24:LEU:HD22	20:CT:24:LEU:O	2.12	0.47
35:DA:80:G:C2'	35:DA:81:G:H5'	2.44	0.47
35:DA:332:A:O2'	35:DA:334:C:OP2	2.23	0.47
35:DA:491:G:H2'	35:DA:492:A:H8	1.79	0.47
35:DA:661:C:H2'	35:DA:662:G:C8	2.49	0.47
35:DA:782:A:C2	38:DD:226:MET:HE2	2.50	0.47
35:DA:851:U:O2	35:DA:927:G:C2	2.67	0.47
35:DA:979:G:H3'	35:DA:980:A:H5''	1.95	0.47
35:DA:1560:G:C4	35:DA:1561:G:C8	3.02	0.47
35:DA:2039:C:H2'	35:DA:2040:C:H6	1.79	0.47
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.49	0.47
35:DA:2277:G:C2'	35:DA:2278:A:H5'	2.44	0.47
35:DA:2757:A:N3	35:DA:2757:A:H2'	2.29	0.47
38:DD:48:ARG:HG3	38:DD:48:ARG:NH1	2.29	0.47
39:DE:5:LEU:HB2	39:DE:51:PHE:CD2	2.42	0.47
39:DE:116:VAL:HG13	39:DE:122:PHE:HB2	1.95	0.47
42:DH:106:THR:HG22	42:DH:112:PRO:CB	2.41	0.47
47:DP:147:LEU:C	47:DP:149:GLU:H	2.22	0.47
51:DT:32:TYR:CD2	51:DT:81:PRO:HB2	2.49	0.47
53:DV:40:LEU:HA	53:DV:45:THR:HB	1.95	0.47
56:DY:28:LYS:O	56:DY:38:ILE:N	2.47	0.47
1:AA:175:C:H2'	1:AA:176:C:C6	2.48	0.47
1:AA:236:G:H2'	1:AA:237:C:H6	1.80	0.47
1:AA:368:U:O4	43:DI:89:TYR:CE2	2.68	0.47
1:AA:1069:C:N4	1:AA:1094:G:H22	2.11	0.47
1:AA:1270:C:H4'	1:AA:1313:U:O2'	2.15	0.47
4:AD:61:LYS:HE2	4:AD:62:GLN:N	2.29	0.47
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.43	0.47
5:AE:111:GLU:C	5:AE:113:ALA:H	2.23	0.47
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.29	0.47
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.72	0.47
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.13	0.47
8:AH:34:GLU:CB	8:AH:118:VAL:HG21	2.43	0.47
11:AK:95:ILE:O	11:AK:99:GLN:HG3	2.14	0.47
12:AL:99:ARG:HG3	12:AL:99:ARG:NH1	2.29	0.47
13:AM:17:VAL:C	13:AM:19:LEU:H	2.22	0.47
19:AS:36:ARG:HB2	19:AS:72:GLY:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:ASN:OD1	20:AT:71:THR:HA	2.14	0.47
22:AV:4:G:O2'	22:AV:5:G:H8	1.96	0.47
22:AV:55:U:N3	22:AV:58:A:OP2	2.48	0.47
28:B3:30:ARG:HD2	28:B3:30:ARG:H	1.78	0.47
35:BA:971:C:H2'	35:BA:972:G:H5'	1.95	0.47
35:BA:1252:G:C2	35:BA:1253:A:C2	3.02	0.47
35:BA:1506:C:O2	35:BA:1506:C:C2'	2.63	0.47
35:BA:2106:G:H22	35:BA:2183:C:H1'	1.78	0.47
35:BA:2339:G:H2'	35:BA:2340:G:H8	1.79	0.47
35:BA:2376:A:H61	50:BS:92:TYR:HE2	1.62	0.47
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.50	0.47
35:BA:2801:A:C2	35:BA:2895:U:H5''	2.50	0.47
37:BC:85:GLU:HG2	37:BC:153:ILE:CB	2.44	0.47
38:BD:125:ILE:C	38:BD:126:GLN:HG3	2.39	0.47
40:BF:107:LYS:O	40:BF:108:LYS:C	2.57	0.47
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.28	0.47
45:BN:128:HIS:CE1	45:BN:134:ARG:HD2	2.49	0.47
46:BO:104:ARG:HH21	51:BT:33:LYS:HZ2	1.60	0.47
47:BP:16:ARG:CZ	47:BP:16:ARG:HB2	2.44	0.47
47:BP:99:LEU:O	47:BP:102:ARG:HB3	2.14	0.47
48:BQ:133:ARG:O	48:BQ:134:ARG:HB2	2.14	0.47
57:BZ:54:HIS:O	57:BZ:98:MET:HE1	2.14	0.47
57:BZ:146:ILE:O	57:BZ:147:GLY:O	2.33	0.47
1:CA:93:G:C2'	1:CA:96:U:H5'	2.44	0.47
1:CA:340:U:H2'	1:CA:341:C:C6	2.49	0.47
1:CA:491:G:O2'	1:CA:492:G:H5'	2.13	0.47
1:CA:636:U:H5'	17:CQ:2:PRO:HG3	1.95	0.47
1:CA:819:A:N7	1:CA:1529:G:N1	2.62	0.47
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.95	0.47
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.78	0.47
1:CA:1261:A:N6	1:CA:1274:G:H1'	2.30	0.47
1:CA:1312:G:H1	1:CA:1325:C:H42	1.62	0.47
2:CB:50:GLU:C	2:CB:52:GLU:N	2.71	0.47
2:CB:188:ALA:O	2:CB:202:PRO:HA	2.14	0.47
2:CB:192:SER:OG	2:CB:196:LEU:HD11	2.14	0.47
3:CC:179:ARG:HG3	3:CC:206:GLU:HG3	1.96	0.47
13:CM:69:GLU:HA	13:CM:70:LEU:N	2.29	0.47
19:CS:31:ILE:HG12	19:CS:32:LYS:N	2.30	0.47
22:CV:55:U:C2	22:CV:57:A:H8	2.25	0.47
22:CW:71:C:H2'	22:CW:72:A:N7	2.29	0.47
32:D7:40:TRP:CZ3	35:DA:459:U:H4'	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D7:40:TRP:CD2	35:DA:459:U:H5''	2.49	0.47
32:D7:48:LYS:HD3	32:D7:48:LYS:H	1.79	0.47
33:D8:33:ASN:HA	33:D8:36:LYS:CG	2.45	0.47
35:DA:324:A:N6	35:DA:338:G:O2'	2.46	0.47
35:DA:330:A:C2	35:DA:1210:A:H2'	2.39	0.47
35:DA:420:C:H2'	35:DA:421:U:C6	2.49	0.47
35:DA:971:C:H2'	35:DA:972:G:C5'	2.44	0.47
35:DA:1241:A:O2'	35:DA:1242:A:H5'	2.14	0.47
38:DD:2:ALA:O	38:DD:3:VAL:CB	2.63	0.47
41:DG:117:PHE:CD1	41:DG:118:ARG:N	2.83	0.47
47:DP:79:ARG:HH21	47:DP:109:GLY:HA2	1.80	0.47
47:DP:101:VAL:HB	47:DP:107:LYS:HA	1.96	0.47
56:DY:13:VAL:HG22	56:DY:14:LEU:N	2.29	0.47
56:DY:50:ARG:CG	56:DY:56:PRO:O	2.62	0.47
57:DZ:35:ARG:NE	57:DZ:36:LYS:H	2.11	0.47
57:DZ:130:PRO:O	57:DZ:133:ILE:HG13	2.14	0.47
57:DZ:135:GLU:O	57:DZ:137:ILE:HD13	2.14	0.47
1:AA:80:G:OP2	1:AA:83:U:H5''	2.14	0.47
1:AA:429:U:H1'	1:AA:430:A:H5''	1.95	0.47
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.80	0.47
3:AC:148:GLY:CA	3:AC:203:PHE:HB3	2.44	0.47
4:AD:28:SER:OG	4:AD:30:LYS:HG3	2.14	0.47
4:AD:150:GLU:C	4:AD:152:SER:N	2.73	0.47
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	1.96	0.47
11:AK:29:ILE:HA	11:AK:44:SER:CB	2.44	0.47
11:AK:57:THR:CG2	11:AK:60:ALA:HB2	2.44	0.47
13:AM:13:LYS:O	13:AM:14:ARG:C	2.57	0.47
13:AM:23:TYR:HE1	13:AM:71:ARG:N	2.11	0.47
14:AN:8:GLU:O	14:AN:12:ARG:NE	2.48	0.47
15:AO:66:LEU:HD13	15:AO:66:LEU:H	1.76	0.47
25:B0:56:ASP:O	25:B0:57:PHE:CB	2.62	0.47
27:B2:65:ASN:HB3	27:B2:69:ARG:HH21	1.74	0.47
28:B3:39:ASP:O	28:B3:40:THR:C	2.55	0.47
29:B4:13:ARG:NH1	29:B4:23:GLU:OE2	2.47	0.47
31:B6:32:ASN:O	31:B6:33:LYS:HB2	2.14	0.47
31:B6:43:CYS:O	31:B6:43:CYS:SG	2.71	0.47
35:BA:150:C:H2'	35:BA:151:C:H6	1.78	0.47
35:BA:158:U:H4'	35:BA:171:G:C4	2.49	0.47
35:BA:310:A:OP1	56:BY:18:GLY:HA2	2.14	0.47
35:BA:1464:C:H2'	35:BA:1465:G:C8	2.50	0.47
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2019:A:C4'	52:BU:34:LYS:HD2	2.45	0.47
35:BA:2065:C:H2'	35:BA:2066:C:C6	2.49	0.47
35:BA:2277:G:H2'	35:BA:2278:A:H5'	1.95	0.47
35:BA:2427:C:H5''	35:BA:2428:G:OP1	2.14	0.47
35:BA:2785:C:H2'	35:BA:2786:U:C6	2.49	0.47
38:BD:24:ILE:O	38:BD:25:THR:O	2.32	0.47
40:BF:8:GLN:HB2	40:BF:124:LEU:HD11	1.97	0.47
41:BG:85:GLY:O	41:BG:87:PRO:HD3	2.15	0.47
41:BG:138:GLN:NE2	41:BG:151:ALA:O	2.48	0.47
43:BI:61:ARG:HA	43:BI:65:ALA:HB2	1.95	0.47
45:BN:34:LEU:HD13	45:BN:34:LEU:HA	1.56	0.47
47:BP:6:LEU:HG	47:BP:8:PRO:CD	2.44	0.47
47:BP:29:LYS:HB3	47:BP:34:GLY:CA	2.44	0.47
47:BP:96:THR:O	47:BP:98:GLU:N	2.47	0.47
50:BS:106:ARG:NH1	50:BS:108:GLY:HA3	2.29	0.47
51:BT:29:ARG:HB2	51:BT:85:LYS:NZ	2.29	0.47
51:BT:31:SER:N	51:BT:43:GLN:O	2.47	0.47
52:BU:95:LEU:C	52:BU:97:ASP:N	2.72	0.47
53:BV:52:VAL:HG13	53:BV:55:ALA:HB3	1.92	0.47
1:CA:866:C:H5'	1:CA:919:A:H5''	1.95	0.47
1:CA:1117:G:H22	1:CA:1180:A:H1'	1.79	0.47
1:CA:1206:G:C6	1:CA:1207:G:C5	3.02	0.47
1:CA:1372:U:H2'	1:CA:1373:G:O4'	2.15	0.47
1:CA:1422:G:H5''	46:DO:48:PRO:HB3	1.96	0.47
2:CB:187:LEU:HD22	2:CB:205:ASP:HB3	1.95	0.47
3:CC:18:TRP:C	3:CC:20:SER:N	2.72	0.47
3:CC:53:ALA:O	3:CC:55:VAL:HG23	2.13	0.47
3:CC:76:VAL:CG2	3:CC:77:ILE:HG13	2.44	0.47
4:CD:137:SER:O	4:CD:138:TYR:C	2.57	0.47
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.57	0.47
14:CN:33:VAL:HG12	14:CN:40:CYS:HA	1.95	0.47
15:CO:36:ILE:HG22	15:CO:37:ASN:N	2.29	0.47
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.48	0.47
19:CS:9:VAL:O	19:CS:11:VAL:N	2.47	0.47
22:CV:64:G:H2'	22:CV:65:C:C6	2.50	0.47
25:D0:43:THR:CG2	35:DA:2332:U:H5'	2.44	0.47
25:D0:45:PHE:HD2	25:D0:79:VAL:CG2	2.27	0.47
35:DA:136:G:H2'	35:DA:137:C:H6	1.78	0.47
35:DA:363(B):G:C2	35:DA:363(C):G:C8	3.03	0.47
35:DA:510:C:C5	35:DA:511:U:C5	3.03	0.47
35:DA:607:U:P	40:DF:103:LYS:HG3	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:865:C:O4'	35:DA:866:A:C5	2.50	0.47
35:DA:867:C:C2'	35:DA:867:C:O2	2.59	0.47
35:DA:1021:A:H8	35:DA:1022:G:H5''	1.80	0.47
35:DA:2305:A:H62	41:DG:42:GLY:CA	2.25	0.47
35:DA:2464:C:O2'	35:DA:2465:C:P	2.72	0.47
35:DA:2637:U:O2'	35:DA:2638:G:H5'	2.14	0.47
35:DA:2768:C:C2'	35:DA:2769:C:H5'	2.44	0.47
38:DD:28:GLU:HB2	38:DD:29:PRO:HD3	1.97	0.47
39:DE:49:LEU:N	39:DE:49:LEU:CD2	2.76	0.47
39:DE:65:GLY:C	39:DE:67:PHE:N	2.68	0.47
40:DF:22:ALA:C	40:DF:24:LEU:N	2.69	0.47
42:DH:107:VAL:HG23	42:DH:107:VAL:O	2.14	0.47
46:DO:90:GLN:CD	46:DO:90:GLN:N	2.73	0.47
47:DP:40:SER:CB	47:DP:41:ARG:NH2	2.77	0.47
49:DR:49:ASP:O	49:DR:52:ILE:N	2.47	0.47
54:DW:64:MET:O	54:DW:65:LEU:O	2.32	0.47
54:DW:111:HIS:C	54:DW:113:LYS:H	2.22	0.47
57:DZ:67:LEU:HD23	57:DZ:90:VAL:CG2	2.44	0.47
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.14	0.47
1:AA:848:C:H2'	1:AA:849:C:C6	2.48	0.47
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.44	0.47
1:AA:1187:G:H4'	9:AI:111:ARG:HH11	1.79	0.47
2:AB:23:ARG:O	2:AB:23:ARG:HG3	2.15	0.47
2:AB:168:THR:OG1	2:AB:191:ASP:HB3	2.14	0.47
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.14	0.47
6:AF:62:TRP:CG	18:AR:35:ARG:HH12	2.32	0.47
9:AI:11:LYS:O	9:AI:13:ALA:N	2.47	0.47
11:AK:59:TYR:O	11:AK:62:GLN:HB3	2.15	0.47
16:AP:80:PHE:CD1	16:AP:80:PHE:N	2.82	0.47
19:AS:6:LYS:HD2	19:AS:7:LYS:HE3	1.96	0.47
22:AV:4:G:O2'	22:AV:5:G:P	2.73	0.47
23:AX:16:A:O5'	23:AX:16:A:C8	2.56	0.47
24:AY:44:THR:CA	24:AY:50:LYS:O	2.52	0.47
25:B0:23:VAL:HB	25:B0:26:TYR:HE2	1.79	0.47
25:B0:45:PHE:HD2	25:B0:79:VAL:CG2	2.27	0.47
28:B3:35:ARG:HB3	28:B3:37:LEU:HD21	1.95	0.47
35:BA:146:G:H2'	35:BA:147:U:C5'	2.44	0.47
35:BA:221:A:H61	35:BA:265:A:H8	1.58	0.47
35:BA:364:C:H2'	35:BA:365:C:H5'	1.95	0.47
35:BA:827:U:H2'	35:BA:2068:U:C2	2.48	0.47
35:BA:926:A:H2'	35:BA:927:G:C8	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2123:G:H5'	37:BC:166:ASP:CB	2.44	0.47
35:BA:2280:G:O2'	35:BA:2281:C:H5'	2.15	0.47
35:BA:2314:C:H2'	35:BA:2315:G:H8	1.80	0.47
35:BA:2637:U:C2'	35:BA:2638:G:H5'	2.44	0.47
36:BB:45:A:C4	36:BB:46:A:C8	3.02	0.47
36:BB:87:G:N1	36:BB:91:C:N4	2.62	0.47
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.50	0.47
40:BF:20:LEU:HG	40:BF:23:ASP:OD2	2.13	0.47
41:BG:72:ARG:HG2	41:BG:86:MET:HA	1.96	0.47
41:BG:138:GLN:O	41:BG:144:ILE:HD12	2.15	0.47
42:BH:8:PRO:CD	42:BH:69:ARG:HD2	2.41	0.47
42:BH:107:VAL:O	42:BH:107:VAL:HG23	2.14	0.47
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.14	0.47
42:BH:149:ARG:HA	42:BH:162:ILE:CG1	2.44	0.47
43:BI:131:LYS:HB3	43:BI:132:PRO:CA	2.44	0.47
47:BP:17:LYS:O	47:BP:19:VAL:CG2	2.62	0.47
47:BP:18:ARG:HH11	47:BP:18:ARG:CA	2.27	0.47
49:BR:85:PRO:O	49:BR:86:ARG:C	2.57	0.47
51:BT:32:TYR:CG	51:BT:81:PRO:HB2	2.50	0.47
52:BU:74:LEU:HD22	52:BU:79:PHE:HB2	1.95	0.47
54:BW:12:ILE:CD1	54:BW:17:VAL:HG22	2.44	0.47
54:BW:33:ARG:O	54:BW:37:ARG:HG3	2.15	0.47
54:BW:85:VAL:HG12	54:BW:86:LEU:N	2.29	0.47
1:CA:169:C:H2'	1:CA:170:U:H5'	1.97	0.47
1:CA:312:C:O2'	1:CA:313:A:H5'	2.14	0.47
1:CA:600:C:O2'	1:CA:601:C:H5'	2.14	0.47
1:CA:775:G:H2'	1:CA:776:G:H8	1.78	0.47
1:CA:1081:G:H2'	1:CA:1082:G:C8	2.47	0.47
1:CA:1504:G:O2'	1:CA:1505:G:P	2.73	0.47
2:CB:219:VAL:HG12	2:CB:219:VAL:O	2.15	0.47
5:CE:126:ARG:HH11	5:CE:126:ARG:HG3	1.79	0.47
9:CI:16:ARG:HD3	9:CI:16:ARG:N	2.30	0.47
18:CR:67:ALA:O	18:CR:68:LYS:C	2.56	0.47
19:CS:12:ASP:O	19:CS:16:LEU:HB2	2.14	0.47
20:CT:30:LYS:HA	20:CT:30:LYS:CE	2.45	0.47
21:CU:6:ARG:HG2	21:CU:15:ARG:NH1	2.29	0.47
25:D0:20:ARG:NH1	35:DA:2357:U:OP1	2.47	0.47
26:D1:67:ILE:N	26:D1:68:PRO:CD	2.76	0.47
33:D8:33:ASN:HA	33:D8:36:LYS:HD2	1.96	0.47
35:DA:39:C:H2'	35:DA:40:C:C6	2.49	0.47
35:DA:271(G):C:H2'	35:DA:271(H):G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:836:G:H2'	35:DA:837:C:C6	2.50	0.47
35:DA:1494:A:H1'	35:DA:1496:A:N1	2.29	0.47
35:DA:1582:C:H2'	35:DA:1583:A:C8	2.46	0.47
35:DA:1910:G:C3'	35:DA:1911:U:H5'	2.40	0.47
35:DA:1911:U:HO2'	35:DA:1912:A:C5'	2.23	0.47
35:DA:1913:A:P	35:DA:1913:A:O3'	2.73	0.47
35:DA:2124:G:H2'	35:DA:2125:G:O4'	2.15	0.47
35:DA:2789:C:N3	35:DA:2894:G:O6	2.47	0.47
39:DE:75:VAL:C	39:DE:77:ILE:N	2.67	0.47
40:DF:66:PRO:O	40:DF:67:GLN:CB	2.52	0.47
40:DF:132:VAL:HG13	40:DF:138:GLU:CD	2.40	0.47
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.29	0.47
43:DI:126:TYR:N	43:DI:126:TYR:CD1	2.82	0.47
46:DO:86:ILE:HD12	46:DO:86:ILE:H	1.79	0.47
48:DQ:55:VAL:HG12	48:DQ:64:ILE:CD1	2.43	0.47
49:DR:72:ASP:HB3	49:DR:75:LEU:HB3	1.96	0.47
50:DS:16:ASN:OD1	50:DS:20:ARG:NH2	2.47	0.47
1:AA:160:A:H1'	1:AA:344:A:C5	2.49	0.47
1:AA:439:A:C2'	1:AA:441:A:H5'	2.45	0.47
1:AA:909:A:H2'	1:AA:910:C:O4'	2.13	0.47
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.14	0.47
5:AE:52:PRO:HG2	5:AE:53:LEU:H	1.80	0.47
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.47	0.47
18:AR:67:ALA:HA	18:AR:70:ILE:HD12	1.94	0.47
18:AR:88:LYS:HD3	18:AR:88:LYS:OXT	2.15	0.47
21:AU:20:LYS:O	21:AU:22:ARG:N	2.48	0.47
26:B1:30:VAL:HG23	26:B1:31:GLY:N	2.29	0.47
35:BA:28:A:N6	35:BA:512:G:H1'	2.29	0.47
35:BA:720:C:H2'	35:BA:721:C:C6	2.50	0.47
35:BA:1568:G:H5''	38:BD:61:LEU:HD22	1.97	0.47
35:BA:2138:C:H2'	35:BA:2139:C:C6	2.50	0.47
35:BA:2142:C:N4	35:BA:2148:G:H1	2.12	0.47
35:BA:2192:G:H2'	35:BA:2193:G:C5'	2.27	0.47
35:BA:2393:A:H4'	47:BP:61:ARG:O	2.15	0.47
36:BB:20:C:H2'	36:BB:21:G:C5'	2.30	0.47
36:BB:25:A:H2'	36:BB:26:A:O4'	2.14	0.47
39:BE:178:GLU:N	39:BE:178:GLU:OE1	2.48	0.47
40:BF:68:LYS:HB3	40:BF:69:HIS:H	1.29	0.47
42:BH:64:LEU:HD22	42:BH:64:LEU:N	2.29	0.47
43:BI:6:LEU:HD12	43:BI:34:GLY:O	2.15	0.47
46:BO:4:PRO:O	46:BO:5:GLN:CB	2.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:71:ARG:NE	46:BO:105:GLU:OE2	2.48	0.47
48:BQ:137:TYR:CE1	57:BZ:81:ARG:NH2	2.82	0.47
49:BR:100:LEU:HD12	49:BR:100:LEU:N	2.30	0.47
50:BS:15:ARG:C	50:BS:17:ARG:N	2.69	0.47
53:BV:41:GLY:HA3	53:BV:45:THR:OG1	2.15	0.47
53:BV:62:LEU:HD21	53:BV:95:LEU:HD12	1.97	0.47
54:BW:45:TYR:CZ	54:BW:49:LYS:HE3	2.50	0.47
55:BX:47:PHE:CD2	55:BX:89:ILE:HG23	2.50	0.47
56:BY:45:VAL:CG1	56:BY:60:PHE:HB3	2.38	0.47
57:BZ:30:ASN:N	57:BZ:33:LEU:O	2.43	0.47
57:BZ:33:LEU:HD12	57:BZ:34:ASN:H	1.79	0.47
57:BZ:48:PHE:C	57:BZ:50:GLN:H	2.23	0.47
57:BZ:171:ILE:CG1	57:BZ:172:ALA:N	2.76	0.47
1:CA:93:G:C6	1:CA:96:U:C4	3.03	0.47
1:CA:130:A:C8	17:CQ:63:ARG:HG3	2.49	0.47
1:CA:160:A:H1'	1:CA:344:A:C5	2.50	0.47
1:CA:316:G:OP2	1:CA:351:G:O2'	2.31	0.47
1:CA:523:A:H61	12:CL:50:ARG:NH1	2.12	0.47
1:CA:524:G:H2'	1:CA:525:C:C6	2.48	0.47
1:CA:1206:G:O2'	1:CA:1207:G:O5'	2.32	0.47
1:CA:1220:G:H5'	19:CS:34:TRP:O	2.13	0.47
1:CA:1225:A:H3'	1:CA:1226:C:C5	2.49	0.47
1:CA:1380:U:C2	7:CG:3:ARG:HD3	2.50	0.47
1:CA:1410:G:H2'	1:CA:1411:C:C6	2.49	0.47
2:CB:51:LEU:HD23	2:CB:201:ILE:CD1	2.45	0.47
3:CC:182:ILE:HD11	3:CC:203:PHE:HD1	1.79	0.47
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.14	0.47
15:CO:36:ILE:HD12	15:CO:63:ARG:HD3	1.95	0.47
16:CP:3:LYS:O	16:CP:21:VAL:HA	2.14	0.47
19:CS:14:HIS:CD2	19:CS:15:LEU:HD23	2.49	0.47
20:CT:70:SER:HA	20:CT:73:HIS:HD2	1.79	0.47
34:D9:22:ARG:HH12	35:DA:2741:A:H5''	1.79	0.47
35:DA:146:G:H2'	35:DA:147:U:C5'	2.44	0.47
35:DA:271(O):C:HO2'	35:DA:271(P):C:H6	1.62	0.47
35:DA:365:C:H2'	35:DA:366:C:O4'	2.15	0.47
35:DA:433:C:H2'	35:DA:434:U:C6	2.49	0.47
35:DA:842:G:O2'	35:DA:843:G:H5'	2.15	0.47
35:DA:1506:C:O2	35:DA:1506:C:C2'	2.62	0.47
35:DA:2310:A:H2'	35:DA:2310:A:N3	2.30	0.47
35:DA:2376:A:H61	50:DS:92:TYR:HE2	1.60	0.47
35:DA:2574:G:O2'	39:DE:143:ASN:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:81:G:H2'	36:DB:82:G:H5'	1.97	0.47
38:DD:161:THR:O	38:DD:162:SER:HB3	2.15	0.47
39:DE:34:VAL:CG1	39:DE:48:GLN:HE21	2.27	0.47
40:DF:46:ARG:NH1	40:DF:46:ARG:HG3	2.29	0.47
40:DF:160:ASN:ND2	40:DF:162:LEU:H	2.13	0.47
42:DH:149:ARG:HA	42:DH:162:ILE:CG1	2.44	0.47
43:DI:79:ILE:HG13	43:DI:92:VAL:HG22	1.96	0.47
46:DO:7:TYR:CE1	46:DO:20:MET:HB2	2.49	0.47
46:DO:32:TYR:N	46:DO:32:TYR:HD1	2.13	0.47
46:DO:101:PRO:O	46:DO:102:VAL:HG13	2.14	0.47
47:DP:17:LYS:O	47:DP:19:VAL:CG2	2.63	0.47
47:DP:111:ARG:HG3	47:DP:111:ARG:NH2	2.26	0.47
48:DQ:111:GLU:O	48:DQ:115:MET:HG2	2.15	0.47
53:DV:97:LYS:HD3	53:DV:97:LYS:HA	1.75	0.47
54:DW:83:LYS:O	54:DW:84:ARG:HD3	2.14	0.47
56:DY:86:ARG:NH2	56:DY:95:LYS:HE3	2.29	0.47
1:AA:62:U:H5''	1:AA:385:C:O2	2.14	0.47
1:AA:78:G:H2'	1:AA:79:G:H4'	1.96	0.47
1:AA:528:C:O2'	1:AA:529:G:H5'	2.13	0.47
1:AA:556:C:H2'	1:AA:556:C:O2	2.15	0.47
1:AA:560:U:O2'	1:AA:561:U:OP2	2.26	0.47
1:AA:614:A:OP2	4:AD:85:LYS:NZ	2.48	0.47
1:AA:765:G:N2	1:AA:813:U:H5	2.12	0.47
1:AA:778:G:O2'	1:AA:779:C:H5'	2.13	0.47
1:AA:979:C:C2'	1:AA:980:C:H5''	2.44	0.47
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.80	0.47
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.49	0.47
1:AA:1374:A:H1'	7:AG:31:MET:HE1	1.97	0.47
1:AA:1493:A3P:H3'	24:AY:55:ASP:CG	2.40	0.47
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.80	0.47
2:AB:105:PHE:O	2:AB:106:LYS:C	2.58	0.47
2:AB:164:VAL:O	2:AB:186:ALA:HB1	2.14	0.47
2:AB:188:ALA:O	2:AB:202:PRO:HA	2.15	0.47
2:AB:193:ASP:O	2:AB:196:LEU:HG	2.14	0.47
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.39	0.47
3:AC:179:ARG:HG3	3:AC:206:GLU:HG3	1.97	0.47
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.15	0.47
4:AD:14:ARG:H	4:AD:40:PRO:HD3	1.78	0.47
4:AD:137:SER:O	4:AD:138:TYR:C	2.57	0.47
5:AE:100:VAL:HG12	5:AE:118:ILE:HG22	1.97	0.47
5:AE:102:ALA:HA	5:AE:120:THR:OG1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:61:VAL:O	8:AH:63:LEU:HD22	2.15	0.47
8:AH:109:ILE:HD11	8:AH:120:THR:HB	1.97	0.47
9:AI:6:GLY:CA	9:AI:83:ARG:HG2	2.44	0.47
9:AI:53:VAL:CG2	9:AI:54:ASP:N	2.78	0.47
9:AI:79:LEU:HD12	9:AI:103:THR:O	2.15	0.47
12:AL:117:TYR:C	12:AL:119:THR:H	2.23	0.47
14:AN:17:LYS:HG3	14:AN:18:VAL:N	2.29	0.47
16:AP:5:ARG:CZ	16:AP:22:THR:HG21	2.44	0.47
17:AQ:7:THR:HG22	17:AQ:58:GLU:HA	1.95	0.47
17:AQ:76:LEU:HD21	17:AQ:79:SER:HB2	1.97	0.47
18:AR:36:ASN:HB3	18:AR:39:VAL:HG21	1.95	0.47
19:AS:33:THR:CG2	19:AS:34:TRP:H	2.28	0.47
19:AS:36:ARG:HE	19:AS:72:GLY:HA3	1.80	0.47
19:AS:41:VAL:HG22	19:AS:42:PRO:CD	2.45	0.47
21:AU:20:LYS:HD3	21:AU:21:TYR:CE1	2.50	0.47
22:AV:34:C:O2	22:AV:34:C:H2'	2.14	0.47
22:AW:5:G:N2	22:AW:69:C:H42	2.12	0.47
22:AW:53:G:H22	22:AW:62:C:H1'	1.79	0.47
25:B0:16:SER:HB2	35:BA:2262:U:H5	1.80	0.47
29:B4:14:ILE:HD13	29:B4:22:ILE:O	2.13	0.47
29:B4:31:ILE:CG2	29:B4:33:VAL:HG23	2.40	0.47
29:B4:35:VAL:CG1	29:B4:36:CYS:N	2.77	0.47
30:B5:2:ALA:N	35:BA:747:U:N3	2.62	0.47
30:B5:16:ARG:HH11	30:B5:16:ARG:HG2	1.79	0.47
35:BA:21:A:O2'	35:BA:22:C:H5'	2.13	0.47
35:BA:310:A:P	56:BY:18:GLY:HA2	2.55	0.47
35:BA:336:C:H4'	56:BY:7:VAL:HG21	1.96	0.47
35:BA:543:C:O2'	35:BA:547:A:P	2.73	0.47
35:BA:614:U:O2	35:BA:614:U:O4'	2.32	0.47
35:BA:640:C:H2'	35:BA:641:C:H6	1.78	0.47
35:BA:755:C:H2'	35:BA:756:C:C6	2.49	0.47
35:BA:851:U:O2	35:BA:927:G:C2	2.68	0.47
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.50	0.47
35:BA:1777:U:O2'	35:BA:1778:U:H5'	2.14	0.47
35:BA:1998:G:H2'	35:BA:1999:C:H6	1.79	0.47
35:BA:2632:A:H2	39:BE:61:ARG:HD2	1.80	0.47
35:BA:2755:C:O2'	35:BA:2756:U:H2'	2.15	0.47
35:BA:2773:C:O2'	35:BA:2774:C:H5'	2.15	0.47
36:BB:24:G:H4'	36:BB:25:A:C8	2.50	0.47
38:BD:2:ALA:O	38:BD:3:VAL:HB	2.14	0.47
38:BD:5:LYS:HD2	38:BD:17:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:28:GLU:HB2	38:BD:29:PRO:HD3	1.97	0.47
38:BD:166:GLN:HA	38:BD:166:GLN:NE2	2.30	0.47
38:BD:206:LEU:HA	38:BD:211:ARG:NH1	2.30	0.47
38:BD:245:PRO:O	38:BD:246:PRO:C	2.57	0.47
39:BE:27:LEU:HD23	51:BT:1:MET:SD	2.55	0.47
40:BF:74:ARG:O	40:BF:74:ARG:HG3	2.15	0.47
41:BG:45:GLU:O	41:BG:46:ALA:HB3	2.14	0.47
41:BG:105:LYS:O	41:BG:109:VAL:HB	2.14	0.47
41:BG:155:MET:HE3	41:BG:157:ILE:CG1	2.37	0.47
42:BH:41:MET:CE	42:BH:54:ARG:HA	2.42	0.47
42:BH:104:GLU:HA	42:BH:113:VAL:O	2.14	0.47
43:BI:76:THR:HA	43:BI:141:LYS:NZ	2.29	0.47
43:BI:110:ASP:HB3	43:BI:130:TYR:HE1	1.80	0.47
43:BI:126:TYR:O	43:BI:140:LEU:O	2.33	0.47
46:BO:16:ALA:HB2	46:BO:52:VAL:CG2	2.45	0.47
46:BO:63:VAL:HG11	46:BO:85:VAL:HG23	1.97	0.47
47:BP:38:GLN:CG	47:BP:39:LYS:N	2.74	0.47
48:BQ:60:ARG:HA	57:BZ:178:GLU:O	2.15	0.47
50:BS:17:ARG:O	50:BS:20:ARG:HB2	2.14	0.47
50:BS:41:ASP:CB	50:BS:48:LEU:HD11	2.45	0.47
50:BS:87:PHE:CG	50:BS:88:ASP:N	2.80	0.47
51:BT:1:MET:O	51:BT:2:ASN:O	2.32	0.47
52:BU:87:GLY:C	52:BU:89:GLU:H	2.21	0.47
52:BU:93:LYS:HD2	52:BU:93:LYS:H	1.79	0.47
53:BV:23:GLU:O	53:BV:24:LYS:O	2.32	0.47
1:CA:15:G:OP1	1:CA:1396:A:H2'	2.14	0.47
1:CA:81:U:H2'	1:CA:82:U:C6	2.50	0.47
1:CA:225:C:H2'	1:CA:226:G:H8	1.80	0.47
1:CA:336:C:H2'	1:CA:337:C:C6	2.50	0.47
1:CA:404:U:H2'	1:CA:405:U:C6	2.49	0.47
1:CA:421:U:O2	1:CA:421:U:C2'	2.63	0.47
1:CA:424:G:O2'	1:CA:425:G:H5'	2.14	0.47
1:CA:446:G:H1	1:CA:488:C:H42	1.60	0.47
1:CA:473:G:O2'	1:CA:474:G:H5'	2.14	0.47
1:CA:682:G:H2'	1:CA:683:G:H8	1.80	0.47
1:CA:740:U:O3'	15:CO:39:LEU:HD23	2.15	0.47
1:CA:908:A:H2'	1:CA:909:A:H8	1.79	0.47
1:CA:1107:C:OP1	3:CC:174:PRO:HG3	2.14	0.47
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.50	0.47
1:CA:1398:A:N1	5:CE:19:MET:HE3	2.29	0.47
1:CA:1502:A:H5'	1:CA:1504:G:N7	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1525:G:P	11:CK:120:ARG:HH22	2.37	0.47
2:CB:213:LEU:HD23	2:CB:213:LEU:C	2.39	0.47
3:CC:130:VAL:CG1	3:CC:153:VAL:HG21	2.45	0.47
7:CG:40:ALA:O	7:CG:41:ARG:C	2.58	0.47
7:CG:75:VAL:HG23	7:CG:75:VAL:O	2.15	0.47
7:CG:140:ASP:HA	7:CG:143:ARG:HH11	1.79	0.47
9:CI:10:ARG:HA	9:CI:104:ARG:HH12	1.80	0.47
11:CK:20:TYR:O	11:CK:30:VAL:HA	2.14	0.47
13:CM:83:ASP:OD1	19:CS:74:PHE:HE1	1.96	0.47
16:CP:6:LEU:HD23	16:CP:17:TYR:CD2	2.50	0.47
17:CQ:54:GLY:O	17:CQ:81:ARG:HB2	2.14	0.47
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.49	0.47
18:CR:86:VAL:HG12	18:CR:87:ARG:N	2.29	0.47
20:CT:13:LEU:HD13	20:CT:17:ARG:NH1	2.24	0.47
20:CT:51:GLU:O	20:CT:54:LYS:HB3	2.14	0.47
21:CU:6:ARG:HE	21:CU:15:ARG:CZ	2.27	0.47
21:CU:20:LYS:C	21:CU:22:ARG:N	2.73	0.47
22:CV:54:U:C2'	22:CV:55:U:C4'	2.90	0.47
22:CW:59:A:H2'	22:CW:60:U:H5'	1.97	0.47
22:CW:69:C:H2'	22:CW:70:G:C8	2.49	0.47
58:CX:16:A:C4	58:CX:17:U:H6	2.22	0.47
27:D2:36:ARG:NH2	55:DX:9:LEU:HA	2.19	0.47
28:D3:26:LEU:CB	28:D3:28:LEU:HD23	2.44	0.47
29:D4:46:GLN:O	29:D4:47:GLN:HG2	2.15	0.47
30:D5:2:ALA:CA	35:DA:2015:A:H1'	2.43	0.47
30:D5:3:LYS:HB3	30:D5:4:HIS:H	1.46	0.47
30:D5:50:GLY:O	30:D5:56:LYS:HD3	2.14	0.47
33:D8:63:PRO:O	33:D8:64:TYR:O	2.32	0.47
35:DA:285:C:H2'	35:DA:286:C:C6	2.49	0.47
35:DA:832:G:N3	47:DP:53:GLY:HA2	2.30	0.47
35:DA:1170:G:H5''	35:DA:1173:G:H22	1.79	0.47
35:DA:1188:U:H4'	53:DV:79:VAL:CG2	2.44	0.47
35:DA:1204:A:N1	35:DA:1241:A:C2	2.82	0.47
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.15	0.47
35:DA:1998:G:H2'	35:DA:1999:C:C6	2.50	0.47
35:DA:2201:C:O2'	35:DA:2202:C:H5'	2.15	0.47
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.27	0.47
35:DA:2257:U:H2'	35:DA:2258:C:C6	2.49	0.47
35:DA:2705:A:H2'	35:DA:2706:G:O4'	2.14	0.47
35:DA:2801:A:C2	35:DA:2895:U:H5''	2.50	0.47
35:DA:2877:G:O2'	35:DA:2878:U:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:30:C:OP2	50:DS:32:LEU:HD11	2.15	0.47
36:DB:87:G:N1	36:DB:91:C:N4	2.63	0.47
37:DC:78:ALA:HB3	37:DC:82:LYS:HE3	1.96	0.47
38:DD:3:VAL:CG1	38:DD:17:THR:HB	2.44	0.47
38:DD:25:THR:HG22	38:DD:26:LYS:CD	2.41	0.47
38:DD:43:ARG:CZ	38:DD:44:ASN:HD21	2.28	0.47
38:DD:62:TYR:HA	38:DD:87:ASN:HD21	1.80	0.47
38:DD:120:GLY:HA2	38:DD:190:TYR:OH	2.14	0.47
38:DD:166:GLN:NE2	38:DD:166:GLN:HA	2.29	0.47
39:DE:63:LEU:O	39:DE:64:LYS:C	2.57	0.47
40:DF:205:ARG:O	40:DF:206:ILE:HD13	2.14	0.47
41:DG:10:LYS:O	41:DG:14:GLU:HB3	2.14	0.47
41:DG:32:PRO:HB3	41:DG:163:ALA:HB2	1.97	0.47
41:DG:111:LEU:N	41:DG:112:PRO:HD2	2.29	0.47
41:DG:161:THR:C	41:DG:163:ALA:H	2.22	0.47
42:DH:50:VAL:HG12	42:DH:51:ARG:N	2.28	0.47
43:DI:83:ALA:HB3	43:DI:144:VAL:CG1	2.45	0.47
43:DI:131:LYS:HB3	43:DI:132:PRO:CA	2.45	0.47
45:DN:67:LEU:H	45:DN:67:LEU:CD1	2.24	0.47
46:DO:9:GLU:O	46:DO:83:ALA:HA	2.14	0.47
46:DO:63:VAL:HG11	46:DO:85:VAL:CG2	2.44	0.47
46:DO:88:ASN:OD1	46:DO:92:GLU:N	2.37	0.47
47:DP:125:VAL:CG1	47:DP:138:LEU:HD21	2.44	0.47
49:DR:45:ARG:O	49:DR:46:GLY:C	2.56	0.47
49:DR:55:ALA:CB	49:DR:79:LEU:HD13	2.39	0.47
49:DR:69:ASP:C	49:DR:70:LEU:O	2.56	0.47
50:DS:25:ARG:HH11	50:DS:25:ARG:HB3	1.80	0.47
51:DT:5:ALA:O	51:DT:8:LYS:N	2.48	0.47
51:DT:20:PRO:CD	51:DT:85:LYS:HB3	2.45	0.47
51:DT:72:VAL:HG12	51:DT:73:GLU:N	2.29	0.47
52:DU:95:LEU:C	52:DU:97:ASP:N	2.72	0.47
53:DV:21:ARG:HG2	53:DV:91:TYR:CD2	2.49	0.47
53:DV:29:PRO:O	53:DV:61:VAL:HG23	2.14	0.47
53:DV:39:LEU:O	53:DV:40:LEU:CB	2.61	0.47
54:DW:62:HIS:O	54:DW:63:ASP:C	2.57	0.47
57:DZ:5:LEU:HD23	57:DZ:6:LYS:HE2	1.97	0.47
57:DZ:58:VAL:HG12	57:DZ:66:SER:HB3	1.96	0.47
57:DZ:77:ASP:OD2	57:DZ:79:ARG:O	2.32	0.47
1:AA:166:G:H2'	1:AA:167:G:C8	2.49	0.47
1:AA:358:U:H5''	43:DI:87:LYS:CD	2.44	0.47
1:AA:969:A:H2'	1:AA:970:C:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:H2'	1:AA:1330:U:O4'	2.15	0.47
2:AB:177:ALA:O	2:AB:180:LEU:HB2	2.15	0.47
3:AC:83:ARG:O	3:AC:86:VAL:HG22	2.14	0.47
4:AD:169:LYS:HZ2	6:CF:25:ILE:HD11	1.79	0.47
6:AF:100:ASN:HB2	18:AR:27:GLY:O	2.15	0.47
7:AG:16:LEU:HD12	9:AI:42:ARG:HA	1.96	0.47
8:AH:86:ILE:O	8:AH:88:LYS:HG3	2.14	0.47
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.97	0.47
9:AI:23:ASN:HD22	9:AI:23:ASN:N	2.05	0.47
10:AJ:16:LEU:HD21	10:AJ:94:VAL:HG13	1.96	0.47
24:AY:94:LYS:O	24:AY:94:LYS:CG	2.60	0.47
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.30	0.47
35:BA:7:G:H2'	35:BA:8:A:H8	1.78	0.47
35:BA:256:A:O2'	35:BA:257:A:H5'	2.15	0.47
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	2.15	0.47
35:BA:679:C:O2'	35:BA:680:G:H5'	2.15	0.47
35:BA:860:U:O2'	35:BA:861:A:H5'	2.15	0.47
35:BA:997:G:HO2'	35:BA:998:C:H5'	1.77	0.47
35:BA:1144:G:H2'	35:BA:1145:C:C6	2.50	0.47
35:BA:1914:C:H3'	35:BA:1914:C:OP1	2.15	0.47
35:BA:2880:C:O2'	49:BR:90:ARG:HD3	2.15	0.47
36:BB:32:C:C4	36:BB:51:G:N2	2.82	0.47
38:BD:262:ARG:C	38:BD:264:LYS:H	2.22	0.47
40:BF:18:ARG:C	40:BF:19:GLU:HG2	2.40	0.47
40:BF:114:VAL:HG11	40:BF:202:PHE:CE2	2.50	0.47
40:BF:161:GLU:O	40:BF:165:ARG:HG3	2.14	0.47
41:BG:45:GLU:H	41:BG:45:GLU:CD	2.22	0.47
43:BI:6:LEU:O	43:BI:8:PRO:N	2.48	0.47
45:BN:21:LYS:C	45:BN:61:ARG:HB2	2.39	0.47
45:BN:128:HIS:CD2	45:BN:130:HIS:HB2	2.45	0.47
51:BT:23:ARG:H	51:BT:120:ARG:HH12	1.63	0.47
54:BW:64:MET:O	54:BW:65:LEU:O	2.32	0.47
55:BX:34:ALA:HA	55:BX:38:GLU:OE1	2.14	0.47
55:BX:63:LYS:HA	55:BX:72:LYS:HA	1.95	0.47
57:BZ:101:PRO:O	57:BZ:102:LEU:HD23	2.14	0.47
1:CA:14:U:H2'	1:CA:16:A:OP2	2.15	0.47
1:CA:35:G:C6	1:CA:550:G:C2	3.02	0.47
1:CA:46:G:H2'	1:CA:366:C:H5	1.79	0.47
1:CA:47:C:H42	1:CA:362:G:N2	2.11	0.47
1:CA:580:U:H2'	1:CA:581:G:O4'	2.15	0.47
1:CA:765:G:N2	1:CA:813:U:H5	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1329:A:H5''	13:CM:26:GLY:H	1.78	0.47
2:CB:28:PHE:CD1	2:CB:28:PHE:O	2.68	0.47
2:CB:28:PHE:O	2:CB:28:PHE:CG	2.68	0.47
2:CB:84:GLU:CD	2:CB:216:SER:HA	2.40	0.47
2:CB:100:GLY:O	2:CB:102:LEU:N	2.48	0.47
4:CD:98:GLU:HG2	4:CD:194:LEU:HD11	1.96	0.47
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.30	0.47
7:CG:54:THR:CG2	7:CG:56:GLN:HG2	2.42	0.47
7:CG:79:ARG:HB2	7:CG:84:ASN:ND2	2.30	0.47
7:CG:118:VAL:O	7:CG:121:ALA:HB3	2.15	0.47
10:CJ:31:GLY:HA3	10:CJ:78:ASN:CG	2.40	0.47
13:CM:3:ARG:NE	13:CM:7:VAL:HG13	2.30	0.47
13:CM:69:GLU:CG	13:CM:72:ALA:HB3	2.45	0.47
16:CP:4:ILE:N	16:CP:65:GLN:O	2.45	0.47
19:CS:36:ARG:HB2	19:CS:72:GLY:N	2.27	0.47
33:D8:61:LEU:C	33:D8:63:PRO:CD	2.86	0.47
35:DA:26:G:C6	35:DA:27:G:N1	2.82	0.47
35:DA:614:U:H3'	35:DA:614(A):U:H6	1.80	0.47
35:DA:1029:A:H8	35:DA:1029:A:O5'	1.98	0.47
35:DA:2128:C:H2'	35:DA:2129:C:H5'	1.97	0.47
35:DA:2637:U:C2'	35:DA:2638:G:H5'	2.44	0.47
36:DB:57:A:H4'	41:DG:30:GLU:OE1	2.15	0.47
40:DF:2:LYS:C	40:DF:4:VAL:H	2.23	0.47
40:DF:36:VAL:HG11	40:DF:183:VAL:HG11	1.96	0.47
41:DG:173:LEU:O	41:DG:176:LEU:N	2.47	0.47
42:DH:89:ILE:HD11	42:DH:94:TYR:O	2.14	0.47
47:DP:126:VAL:HG13	47:DP:145:PRO:HG2	1.96	0.47
49:DR:14:SER:O	49:DR:15:SER:C	2.58	0.47
50:DS:87:PHE:CG	50:DS:88:ASP:N	2.82	0.47
51:DT:28:VAL:HG13	51:DT:46:GLU:N	2.30	0.47
52:DU:52:ARG:O	52:DU:53:ARG:C	2.58	0.47
56:DY:39:VAL:HG12	56:DY:40:GLU:N	2.30	0.47
57:DZ:29:TYR:O	57:DZ:30:ASN:HB3	2.14	0.47
1:AA:735:C:C2	1:AA:736:C:C5	3.03	0.47
1:AA:740:U:O3'	15:AO:39:LEU:HD23	2.15	0.47
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.82	0.47
4:AD:5:ILE:CG2	4:AD:6:GLY:N	2.77	0.47
13:AM:69:GLU:CG	13:AM:72:ALA:HB3	2.45	0.47
15:AO:15:PHE:O	15:AO:16:ALA:C	2.58	0.47
15:AO:36:ILE:HD12	15:AO:63:ARG:HD2	1.97	0.47
21:AU:9:ARG:HH12	21:AU:23:PRO:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:13:A:H3'	23:AX:13:A:N3	2.30	0.47
24:AY:22:GLY:O	24:AY:23:ASP:C	2.58	0.47
35:BA:20:C:O2'	35:BA:21:A:H5'	2.14	0.47
35:BA:93:G:H2'	35:BA:94:C:C6	2.50	0.47
35:BA:285:C:H2'	35:BA:286:C:C6	2.50	0.47
35:BA:527:C:OP2	35:BA:2779:U:H5	1.98	0.47
35:BA:958:U:OP2	48:BQ:14:ARG:NH1	2.48	0.47
35:BA:986:C:O2'	35:BA:987:G:H5'	2.15	0.47
35:BA:1190:G:H5'	47:BP:35:HIS:CA	2.45	0.47
35:BA:1404:C:O2'	35:BA:1405:U:H5'	2.15	0.47
35:BA:1804:C:H6	35:BA:1804:C:O5'	1.98	0.47
35:BA:2579:C:C1'	39:BE:134:ILE:HD13	2.45	0.47
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.74	0.47
40:BF:33:LEU:HD11	40:BF:112:MET:HB2	1.97	0.47
42:BH:108:GLY:HA3	42:BH:152:ARG:HH21	1.79	0.47
43:BI:58:LEU:HG	43:BI:61:ARG:NH2	2.30	0.47
48:BQ:21:THR:C	48:BQ:23:GLY:H	2.22	0.47
49:BR:45:ARG:O	49:BR:46:GLY:C	2.58	0.47
49:BR:66:VAL:HG12	49:BR:70:LEU:HD12	1.96	0.47
54:BW:15:ARG:HA	54:BW:18:ARG:HD2	1.97	0.47
54:BW:62:HIS:O	54:BW:63:ASP:C	2.57	0.47
55:BX:54:VAL:C	55:BX:55:ASN:HD22	2.23	0.47
56:BY:23:ARG:O	56:BY:24:VAL:C	2.58	0.47
56:BY:50:ARG:CG	56:BY:56:PRO:O	2.63	0.47
56:BY:88:LYS:HZ1	56:BY:93:GLY:CA	2.16	0.47
56:BY:96:ILE:HG22	56:BY:97:ARG:HG3	1.97	0.47
1:CA:1050:G:N2	1:CA:1209:C:H1'	2.30	0.47
1:CA:1202:G:O2'	14:CN:27:CYS:HB2	2.15	0.47
1:CA:1403:C:N4	58:CX:18:G:P	2.82	0.47
2:CB:11:LEU:HD12	2:CB:217:ARG:CZ	2.45	0.47
2:CB:167:PRO:HG2	2:CB:168:THR:H	1.79	0.47
2:CB:172:ILE:O	2:CB:175:ARG:HB3	2.15	0.47
3:CC:86:VAL:O	3:CC:90:GLU:HG2	2.15	0.47
4:CD:5:ILE:CG2	4:CD:6:GLY:N	2.78	0.47
7:CG:147:ALA:C	7:CG:148:ASN:HD22	2.23	0.47
8:CH:51:VAL:HG11	8:CH:60:ARG:CD	2.19	0.47
8:CH:122:ARG:O	8:CH:126:LYS:HB2	2.15	0.47
13:CM:79:LYS:HG3	13:CM:82:MET:HE3	1.97	0.47
17:CQ:43:LEU:HD12	17:CQ:68:ARG:HB3	1.97	0.47
22:CW:49:G:H2'	22:CW:49:G:N3	2.30	0.47
22:CW:64:G:O2'	22:CW:65:C:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:66:HIS:C	26:D1:68:PRO:HD2	2.39	0.47
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	1.97	0.47
35:DA:70:G:H2'	35:DA:113:G:O2'	2.14	0.47
35:DA:868:U:O4	35:DA:869:G:N7	2.46	0.47
35:DA:1912:A:O2'	35:DA:1913:A:OP2	2.30	0.47
35:DA:2007:C:H2'	35:DA:2008:C:C6	2.49	0.47
35:DA:2123:G:H5'	37:DC:166:ASP:CB	2.45	0.47
36:DB:32:C:C4	36:DB:51:G:N2	2.82	0.47
40:DF:18:ARG:C	40:DF:19:GLU:HG2	2.40	0.47
40:DF:24:LEU:HD12	40:DF:25:PRO:CD	2.44	0.47
42:DH:108:GLY:HA3	42:DH:152:ARG:HH21	1.79	0.47
43:DI:72:LEU:HD13	43:DI:101:LEU:O	2.15	0.47
45:DN:99:LEU:O	45:DN:103:VAL:HG22	2.15	0.47
45:DN:119:ARG:HH11	45:DN:119:ARG:HG3	1.80	0.47
48:DQ:27:VAL:O	48:DQ:29:PHE:N	2.47	0.47
49:DR:53:HIS:O	49:DR:56:LYS:HB2	2.14	0.47
50:DS:25:ARG:HB3	50:DS:25:ARG:NH1	2.30	0.47
51:DT:1:MET:O	51:DT:2:ASN:O	2.32	0.47
51:DT:90:GLN:NE2	51:DT:124:ASP:OD2	2.48	0.47
51:DT:129:ARG:O	51:DT:129:ARG:HG3	2.15	0.47
1:AA:109:A:H5'	1:AA:110:C:H5	1.79	0.47
1:AA:149:A:H2'	1:AA:150:C:C6	2.50	0.47
1:AA:185:A:H61	1:AA:192:U:H3	1.63	0.47
1:AA:424:G:O2'	1:AA:425:G:H5'	2.15	0.47
1:AA:717:C:H4'	11:AK:117:ASN:OD1	2.15	0.47
1:AA:749:C:O2	1:AA:749:C:H2'	2.14	0.47
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.80	0.47
1:AA:1334:G:H5'	1:AA:1335:C:OP2	2.15	0.47
3:AC:147:LYS:O	3:AC:203:PHE:HD2	1.97	0.47
6:AF:8:ILE:HG22	6:AF:10:LEU:CD1	2.45	0.47
9:AI:79:LEU:HD13	9:AI:101:PHE:C	2.40	0.47
9:AI:82:ALA:O	9:AI:86:VAL:HG12	2.15	0.47
14:AN:4:LYS:HB2	14:AN:4:LYS:NZ	2.29	0.47
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.15	0.47
20:AT:99:LEU:HD23	20:AT:99:LEU:C	2.40	0.47
27:B2:13:ALA:C	27:B2:15:LYS:H	2.22	0.47
30:B5:54:GLY:O	30:B5:55:ARG:O	2.33	0.47
33:B8:29:LYS:O	33:B8:30:ARG:CB	2.63	0.47
33:B8:37:SER:C	33:B8:39:LYS:N	2.72	0.47
35:BA:11:G:O2'	35:BA:2802:G:H5''	2.15	0.47
35:BA:143:G:H1'	55:BX:37:THR:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:433:C:H2'	35:BA:434:U:C6	2.49	0.47
35:BA:958:U:H6	35:BA:958:U:H3'	1.80	0.47
35:BA:1005:C:H2'	35:BA:1006:C:H6	1.79	0.47
35:BA:1247:A:OP2	47:BP:18:ARG:NH2	2.48	0.47
35:BA:2111:C:O4'	35:BA:2118:U:H4'	2.15	0.47
35:BA:2124:G:H2'	35:BA:2125:G:O4'	2.14	0.47
35:BA:2883:A:C5'	35:BA:2884:U:H5'	2.44	0.47
38:BD:48:ARG:HG3	38:BD:48:ARG:NH1	2.30	0.47
38:BD:77:ALA:HB2	38:BD:97:TYR:CG	2.49	0.47
40:BF:39:TRP:O	40:BF:43:LYS:HB3	2.16	0.47
40:BF:46:ARG:NH1	40:BF:46:ARG:HG3	2.29	0.47
41:BG:16:ARG:N	41:BG:17:PRO:HD2	2.29	0.47
45:BN:62:VAL:HG23	45:BN:66:LYS:HD2	1.97	0.47
47:BP:40:SER:O	47:BP:41:ARG:NH2	2.48	0.47
50:BS:87:PHE:CE2	50:BS:92:TYR:HD2	2.33	0.47
51:BT:19:LEU:HA	51:BT:20:PRO:HD3	1.57	0.47
52:BU:95:LEU:CD1	53:BV:11:GLN:HB2	2.45	0.47
56:BY:50:ARG:HD3	56:BY:50:ARG:HA	1.79	0.47
56:BY:60:PHE:N	56:BY:62:GLU:OE1	2.48	0.47
1:CA:9:G:OP2	5:CE:121:LYS:HD2	2.15	0.47
1:CA:189(G):G:H4'	1:CA:189(H):G:OP2	2.15	0.47
1:CA:269:C:H2'	1:CA:270:A:C8	2.50	0.47
1:CA:833:U:H2'	1:CA:834:C:H6	1.80	0.47
1:CA:941:G:N1	1:CA:1343:G:C6	2.83	0.47
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.97	0.47
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.97	0.47
5:CE:137:GLU:O	5:CE:141:GLN:HG3	2.14	0.47
8:CH:95:VAL:CG1	8:CH:133:LEU:HD12	2.45	0.47
12:CL:117:TYR:CD1	12:CL:117:TYR:N	2.82	0.47
13:CM:14:ARG:HB2	13:CM:16:ASP:OD2	2.15	0.47
17:CQ:35:VAL:HG12	17:CQ:36:ILE:H	1.80	0.47
17:CQ:53:LEU:CD2	17:CQ:85:VAL:HG21	2.45	0.47
18:CR:26:LEU:HB2	18:CR:29:PHE:HE2	1.80	0.47
18:CR:71:LYS:O	18:CR:74:ARG:HG3	2.15	0.47
28:D3:3:ARG:N	28:D3:60:GLU:N	2.63	0.47
33:D8:33:ASN:HA	33:D8:36:LYS:HG3	1.96	0.47
34:D9:22:ARG:NH1	35:DA:2741:A:OP1	2.47	0.47
35:DA:258:G:H2'	35:DA:259:G:H8	1.80	0.47
35:DA:706:A:H2'	35:DA:707:G:O4'	2.15	0.47
35:DA:1107:G:O2'	35:DA:1108:U:H5'	2.15	0.47
35:DA:1156:A:C8	52:DU:51:LYS:HD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1190:G:H5'	47:DP:35:HIS:HA	1.97	0.47
35:DA:1218:C:C2'	35:DA:1219:G:H5'	2.45	0.47
35:DA:1314:C:H5'	35:DA:1314:C:C6	2.47	0.47
35:DA:1316:U:H2'	35:DA:1317:A:C8	2.50	0.47
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.15	0.47
35:DA:1662:C:O2'	35:DA:1663:C:H5'	2.15	0.47
35:DA:2755:C:O2'	35:DA:2756:U:H2'	2.15	0.47
35:DA:2883:A:C5'	35:DA:2884:U:H5'	2.45	0.47
38:DD:209:ALA:O	38:DD:210:GLY:O	2.33	0.47
38:DD:242:ARG:HH11	38:DD:242:ARG:H	1.61	0.47
39:DE:199:ARG:NH1	39:DE:199:ARG:HB2	2.30	0.47
42:DH:104:GLU:HA	42:DH:113:VAL:O	2.14	0.47
43:DI:77:LEU:HD23	43:DI:78:THR:C	2.39	0.47
50:DS:92:TYR:C	50:DS:94:TYR:N	2.73	0.47
51:DT:85:LYS:HZ3	51:DT:85:LYS:CA	2.24	0.47
52:DU:83:LEU:HD12	52:DU:83:LEU:N	2.29	0.47
56:DY:65:ALA:HB1	56:DY:66:PRO:HD2	1.97	0.47
56:DY:76:CYS:CB	56:DY:96:ILE:HD11	2.45	0.47
57:DZ:98:MET:O	57:DZ:125:LEU:HD23	2.15	0.47
57:DZ:103:ARG:HD2	57:DZ:136:PHE:CD1	2.50	0.47
1:AA:256:U:C5'	17:AQ:17:LYS:HZ2	2.28	0.46
1:AA:624:C:C5'	16:AP:11:SER:OG	2.63	0.46
1:AA:880:C:O2'	1:AA:881:G:H5'	2.15	0.46
1:AA:935:A:H61	7:AG:3:ARG:HG2	1.80	0.46
1:AA:983:A:N1	1:AA:1222:G:N2	2.63	0.46
2:AB:167:PRO:HG2	2:AB:192:SER:HB2	1.96	0.46
2:AB:192:SER:OG	2:AB:196:LEU:HD11	2.15	0.46
2:AB:219:VAL:O	2:AB:222:ILE:HB	2.15	0.46
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.15	0.46
4:AD:15:GLU:HG2	4:AD:63:LYS:HG3	1.96	0.46
5:AE:6:PHE:HZ	5:AE:40:ARG:HH21	1.62	0.46
7:AG:25:ALA:O	7:AG:28:ASN:HB2	2.15	0.46
9:AI:42:ARG:NH1	9:AI:71:SER:HB3	2.30	0.46
10:AJ:32:ALA:H	10:AJ:78:ASN:HD21	1.62	0.46
10:AJ:50:ILE:CA	10:AJ:60:ARG:HD3	2.40	0.46
13:AM:65:LYS:HA	13:AM:66:LEU:HG	1.96	0.46
15:AO:50:HIS:O	15:AO:53:HIS:HB3	2.14	0.46
16:AP:45:THR:O	16:AP:48:TRP:HD1	1.98	0.46
17:AQ:29:HIS:C	17:AQ:31:LEU:H	2.23	0.46
18:AR:86:VAL:HG12	18:AR:87:ARG:N	2.29	0.46
19:AS:31:ILE:HG12	19:AS:32:LYS:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:6:ARG:HE	21:AU:15:ARG:CZ	2.28	0.46
24:AY:64:TYR:HB3	24:AY:92:ILE:HD11	1.93	0.46
27:B2:41:ILE:CD1	27:B2:43:GLN:HB2	2.45	0.46
31:B6:15:GLU:OE2	31:B6:43:CYS:CB	2.60	0.46
35:BA:587:C:H2'	47:BP:33:ARG:HH21	1.81	0.46
35:BA:873:G:H1	35:BA:904:C:N4	2.12	0.46
35:BA:1170:G:H5''	35:BA:1173:G:H22	1.80	0.46
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.50	0.46
35:BA:1466:G:H2'	35:BA:1466:G:N3	2.30	0.46
35:BA:1722:A:H2	35:BA:1740:G:H2'	1.79	0.46
35:BA:2179:C:OP1	35:BA:2179:C:H4'	2.15	0.46
35:BA:2310:A:O2'	35:BA:2311:A:C5'	2.63	0.46
35:BA:2724:C:P	49:BR:2:ARG:NH2	2.88	0.46
36:BB:28:C:OP1	50:BS:34:HIS:HB2	2.15	0.46
38:BD:211:ARG:HH11	38:BD:211:ARG:CG	2.27	0.46
38:BD:242:ARG:HH11	38:BD:242:ARG:CG	2.27	0.46
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.68	0.46
40:BF:117:ARG:HA	40:BF:117:ARG:HD3	1.65	0.46
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.79	0.46
40:BF:132:VAL:HG13	40:BF:138:GLU:CD	2.39	0.46
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.50	0.46
42:BH:89:ILE:HD11	42:BH:94:TYR:O	2.14	0.46
43:BI:49:ALA:O	43:BI:53:ALA:HB3	2.15	0.46
43:BI:128:LEU:O	43:BI:137:PRO:HA	2.15	0.46
44:BJ:49:UNK:C	44:BJ:51:UNK:N	2.78	0.46
45:BN:10:GLU:CD	45:BN:11:PRO:HD2	2.40	0.46
46:BO:64:ARG:CZ	51:BT:70:VAL:HG21	2.45	0.46
48:BQ:118:LEU:HD12	48:BQ:131:ILE:HG23	1.97	0.46
50:BS:18:ILE:C	50:BS:20:ARG:N	2.73	0.46
52:BU:52:ARG:O	52:BU:53:ARG:C	2.58	0.46
54:BW:32:ALA:O	54:BW:33:ARG:C	2.58	0.46
55:BX:26:TYR:O	55:BX:81:VAL:HG22	2.14	0.46
55:BX:89:ILE:O	55:BX:93:GLU:OE2	2.33	0.46
57:BZ:108:PRO:CG	57:BZ:109:ALA:H	2.26	0.46
1:CA:8:A:N7	4:CD:208:SER:HB3	2.30	0.46
1:CA:156:G:O2'	1:CA:157:G:H5'	2.15	0.46
1:CA:256:U:H5'	17:CQ:17:LYS:HZ1	1.80	0.46
1:CA:717:C:H4'	11:CK:117:ASN:OD1	2.14	0.46
1:CA:859:A:H2'	1:CA:860:A:O4'	2.14	0.46
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	2.15	0.46
1:CA:1422:G:H2'	1:CA:1423:G:C8	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:97:TRP:CH2	2:CB:173:ALA:N	2.83	0.46
3:CC:51:GLY:O	3:CC:115:LEU:HD21	2.15	0.46
4:CD:109:GLY:O	4:CD:111:ALA:N	2.47	0.46
4:CD:126:ILE:CG2	4:CD:127:THR:H	2.27	0.46
5:CE:80:ILE:HG22	8:CH:104:ARG:NH1	2.30	0.46
10:CJ:32:ALA:H	10:CJ:78:ASN:ND2	2.13	0.46
14:CN:8:GLU:O	14:CN:12:ARG:NE	2.48	0.46
17:CQ:14:LYS:HD2	17:CQ:14:LYS:N	2.30	0.46
29:D4:31:ILE:CG2	29:D4:33:VAL:HG23	2.40	0.46
33:D8:14:VAL:HG21	33:D8:22:VAL:HG13	1.98	0.46
33:D8:33:ASN:N	33:D8:36:LYS:HD2	2.30	0.46
35:DA:146:G:H2'	35:DA:147:U:O4'	2.16	0.46
35:DA:158:U:H4'	35:DA:171:G:C4	2.50	0.46
35:DA:298:G:P	56:DY:85:VAL:HG22	2.56	0.46
35:DA:760:G:H2'	35:DA:761:A:O4'	2.15	0.46
35:DA:1129:A:C2	35:DA:2569:G:N3	2.82	0.46
35:DA:1142:U:H5''	35:DA:1142(A):A:H8	1.80	0.46
35:DA:1504:C:C3'	35:DA:1505:C:H5''	2.44	0.46
35:DA:1528:A:O2'	35:DA:1528(A):A:H5'	2.15	0.46
35:DA:1914:C:C3'	35:DA:1915:U:H5'	2.46	0.46
35:DA:2038:G:C6	35:DA:2039:C:C4	3.04	0.46
35:DA:2136:C:N4	35:DA:2155:G:N1	2.61	0.46
35:DA:2505:G:O6	35:DA:2576:G:H2'	2.15	0.46
35:DA:2713:A:H3'	35:DA:2714:G:H5'	1.97	0.46
36:DB:70:C:H2'	36:DB:71:C:C6	2.41	0.46
38:DD:205:VAL:HG12	38:DD:205:VAL:O	2.14	0.46
38:DD:206:LEU:CD2	38:DD:211:ARG:HG3	2.45	0.46
40:DF:74:ARG:O	40:DF:74:ARG:HG3	2.15	0.46
40:DF:198:ALA:C	40:DF:200:GLU:H	2.23	0.46
41:DG:170:ARG:NH2	41:DG:180:PHE:HD1	2.14	0.46
42:DH:95:ARG:N	42:DH:107:VAL:HG12	2.30	0.46
43:DI:10:GLU:CD	43:DI:11:ASN:N	2.74	0.46
43:DI:49:ALA:O	43:DI:53:ALA:HB3	2.15	0.46
43:DI:76:THR:HA	43:DI:141:LYS:HZ3	1.80	0.46
45:DN:16:ILE:CG2	45:DN:54:VAL:HG22	2.45	0.46
49:DR:56:LYS:C	49:DR:58:GLY:H	2.23	0.46
51:DT:27:THR:C	51:DT:28:VAL:HG23	2.40	0.46
52:DU:87:GLY:C	52:DU:89:GLU:H	2.21	0.46
54:DW:44:ALA:O	54:DW:47:VAL:HG12	2.15	0.46
57:DZ:44:PHE:O	57:DZ:45:ASP:C	2.58	0.46
1:AA:116:A:H61	1:AA:313:A:H1'	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:199:G:C2	1:AA:219:C:N3	2.84	0.46
1:AA:340:U:H2'	1:AA:341:C:C6	2.51	0.46
1:AA:832:C:O2'	1:AA:833:U:H6	1.98	0.46
1:AA:1003:G:H1'	1:AA:1038:C:O2	2.15	0.46
1:AA:1078:U:H2'	1:AA:1079:G:O4'	2.15	0.46
1:AA:1188:A:H4'	14:AN:58:LYS:HD2	1.98	0.46
1:AA:1243:C:O2'	1:AA:1244:C:H5'	2.15	0.46
2:AB:104:ASN:O	2:AB:108:ILE:HG12	2.15	0.46
2:AB:152:PHE:O	2:AB:153:ARG:HB2	2.14	0.46
4:AD:18:LYS:HD3	4:AD:20:TYR:OH	2.15	0.46
5:AE:18:ARG:NH1	5:AE:25:ARG:HB3	2.30	0.46
5:AE:137:GLU:O	5:AE:141:GLN:HG3	2.15	0.46
6:AF:81:ILE:O	6:AF:82:ARG:C	2.57	0.46
8:AH:10:LEU:HD23	8:AH:10:LEU:N	2.30	0.46
8:AH:44:PHE:O	8:AH:64:LYS:HB3	2.15	0.46
16:AP:80:PHE:H	16:AP:80:PHE:HD1	1.61	0.46
20:AT:26:ASN:O	20:AT:30:LYS:HB2	2.15	0.46
24:AY:83:LEU:C	24:AY:84:LYS:HG2	2.40	0.46
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.14	0.46
33:B8:33:ASN:HA	33:B8:36:LYS:HD2	1.98	0.46
33:B8:33:ASN:HA	33:B8:36:LYS:HG3	1.98	0.46
34:B9:31:LYS:HD3	35:BA:2528:U:H5'	1.97	0.46
35:BA:26:G:C6	35:BA:27:G:N1	2.83	0.46
35:BA:245:G:H5'	47:BP:69:GLY:HA3	1.97	0.46
35:BA:483:A:H4'	56:BY:49:VAL:HG22	1.97	0.46
35:BA:494:G:O2'	54:BW:5:ALA:O	2.32	0.46
35:BA:775:G:H4'	35:BA:776:G:OP2	2.15	0.46
35:BA:1163:G:O2'	35:BA:1164:G:H5'	2.15	0.46
35:BA:1485:G:H2'	35:BA:1486:A:C8	2.51	0.46
35:BA:1719:G:C2'	35:BA:1720:U:H5'	2.45	0.46
35:BA:2035:G:H4'	35:BA:2036:C:OP2	2.15	0.46
35:BA:2310:A:H2'	35:BA:2310:A:N3	2.29	0.46
36:BB:17:C:O2'	36:BB:18:G:H5'	2.15	0.46
38:BD:3:VAL:HG12	38:BD:17:THR:HB	1.96	0.46
43:BI:77:LEU:HD23	43:BI:78:THR:C	2.40	0.46
46:BO:22:ILE:HG12	46:BO:41:ALA:HA	1.97	0.46
47:BP:58:THR:O	47:BP:58:THR:HG22	2.15	0.46
49:BR:97:VAL:HA	49:BR:113:LEU:O	2.14	0.46
52:BU:36:ARG:O	52:BU:37:GLU:C	2.57	0.46
53:BV:5:VAL:HG21	53:BV:35:LEU:CB	2.45	0.46
54:BW:87:PRO:HA	54:BW:93:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:59:LEU:HD11	57:BZ:88:PHE:CG	2.51	0.46
57:BZ:102:LEU:HD11	57:BZ:124:ILE:HG23	1.97	0.46
1:CA:452:A:O3'	16:CP:72:ARG:HD2	2.15	0.46
1:CA:538:G:OP2	12:CL:112:LYS:CG	2.63	0.46
1:CA:596:C:H2'	1:CA:597:G:H8	1.80	0.46
1:CA:1004:A:H5''	1:CA:1025:U:C2	2.49	0.46
1:CA:1225:A:N3	1:CA:1225:A:C2'	2.77	0.46
1:CA:1243:C:O2'	1:CA:1244:C:H5'	2.15	0.46
1:CA:1270:C:H4'	1:CA:1313:U:O2'	2.15	0.46
1:CA:1530:G:H4'	1:CA:1530:G:OP1	2.15	0.46
2:CB:92:TYR:HE1	2:CB:94:ASN:HB2	1.80	0.46
3:CC:150:LYS:HE3	3:CC:167:TRP:HE1	1.80	0.46
4:CD:11:LEU:HD23	4:CD:11:LEU:H	1.80	0.46
4:CD:17:VAL:HG11	4:CD:197:PRO:HB2	1.97	0.46
5:CE:34:VAL:HG12	5:CE:62:ALA:HB1	1.97	0.46
6:CF:81:ILE:O	6:CF:82:ARG:C	2.58	0.46
7:CG:80:VAL:C	7:CG:82:GLY:N	2.73	0.46
9:CI:45:ALA:O	9:CI:78:LYS:HE3	2.15	0.46
11:CK:29:ILE:HA	11:CK:44:SER:CB	2.44	0.46
11:CK:109:VAL:HG22	18:CR:86:VAL:HG13	1.97	0.46
12:CL:44:LYS:HB3	12:CL:45:PRO:HD3	1.97	0.46
16:CP:55:ARG:O	16:CP:58:TYR:HB3	2.16	0.46
16:CP:59:TRP:HA	16:CP:62:VAL:CG2	2.45	0.46
22:CV:53:G:N1	22:CV:61:C:N3	2.61	0.46
27:D2:33:MET:HE3	55:DX:8:ILE:HG21	1.98	0.46
28:D3:4:LEU:HD11	28:D3:39:ASP:CA	2.42	0.46
35:DA:27:G:N2	35:DA:512:G:H2'	2.29	0.46
35:DA:49:A:H5''	35:DA:51:G:O4'	2.14	0.46
35:DA:582:G:H2'	35:DA:583:G:C8	2.50	0.46
35:DA:636:G:OP1	47:DP:132:LYS:HD2	2.16	0.46
35:DA:1434:A:O2'	35:DA:1435:G:H5'	2.15	0.46
35:DA:1526:G:C6	35:DA:1527:G:C2	3.03	0.46
38:DD:58:HIS:CD2	38:DD:59:LYS:N	2.84	0.46
38:DD:75:ILE:O	38:DD:118:VAL:HG23	2.14	0.46
38:DD:85:ASP:OD2	38:DD:88:ARG:HG2	2.15	0.46
41:DG:32:PRO:O	41:DG:172:LEU:HD13	2.15	0.46
42:DH:124:GLU:CD	42:DH:132:ARG:HG3	2.40	0.46
43:DI:5:LEU:HD21	43:DI:19:VAL:HG11	1.97	0.46
43:DI:58:LEU:C	43:DI:60:GLU:H	2.23	0.46
45:DN:42:TRP:CZ2	45:DN:44:PRO:HA	2.50	0.46
45:DN:131:GLN:HA	45:DN:131:GLN:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:146:VAL:HG13	47:DP:147:LEU:N	2.29	0.46
48:DQ:73:PRO:HG3	48:DQ:93:TYR:HE2	1.81	0.46
50:DS:97:ARG:HG2	50:DS:97:ARG:HH11	1.79	0.46
50:DS:106:ARG:NH1	50:DS:108:GLY:HA3	2.30	0.46
53:DV:95:LEU:C	53:DV:95:LEU:CD2	2.88	0.46
55:DX:63:LYS:HA	55:DX:72:LYS:HA	1.97	0.46
56:DY:4:LYS:NZ	56:DY:5:MET:HG2	2.31	0.46
57:DZ:7:ALA:HB2	57:DZ:59:LEU:HB3	1.98	0.46
1:AA:190:U:H2'	1:AA:191:G:C8	2.44	0.46
1:AA:404:U:H2'	1:AA:405:U:C6	2.49	0.46
1:AA:839:U:O2	1:AA:839:U:H2'	2.15	0.46
1:AA:914:A:O2'	1:AA:915:A:H5'	2.15	0.46
1:AA:935:A:H2'	1:AA:936:C:C6	2.51	0.46
1:AA:936:C:O2	1:AA:1382:C:N4	2.47	0.46
1:AA:1004:A:H5''	1:AA:1025:U:C2	2.51	0.46
1:AA:1278:U:H5''	1:AA:1279:A:O4'	2.15	0.46
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.80	0.46
4:AD:12:CYS:O	4:AD:33:MET:HE2	2.16	0.46
5:AE:103:GLY:O	5:AE:106:PRO:HD2	2.14	0.46
5:AE:148:VAL:C	5:AE:150:ARG:N	2.74	0.46
10:AJ:31:GLY:HA3	10:AJ:78:ASN:CG	2.41	0.46
12:AL:120:LYS:HB3	12:AL:120:LYS:HE2	1.73	0.46
13:AM:21:TYR:C	13:AM:22:ILE:HG13	2.40	0.46
14:AN:33:VAL:HG12	14:AN:40:CYS:HA	1.97	0.46
19:AS:53:ASN:ND2	19:AS:58:VAL:CG2	2.79	0.46
20:AT:42:GLN:HA	20:AT:42:GLN:NE2	2.30	0.46
20:AT:53:LEU:O	20:AT:56:MET:HB3	2.15	0.46
22:AW:26:G:H22	22:AW:44:A:H61	1.61	0.46
24:AY:60:GLU:OE1	24:AY:74:SER:CB	2.57	0.46
26:B1:91:LYS:O	26:B1:92:LYS:C	2.58	0.46
33:B8:27:THR:HG22	47:BP:62:LEU:HD13	1.96	0.46
35:BA:244:A:C2	35:BA:255:A:C4	3.04	0.46
35:BA:760:G:H2'	35:BA:761:A:O4'	2.15	0.46
35:BA:769:G:O2'	35:BA:770:G:H5'	2.14	0.46
35:BA:899:A:H2'	35:BA:899:A:N3	2.31	0.46
35:BA:1239:G:H2'	35:BA:1240:U:O4'	2.15	0.46
35:BA:2001:A:H2'	35:BA:2002:G:C8	2.51	0.46
35:BA:2274:A:C5	35:BA:2276:G:C8	3.03	0.46
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.45	0.46
38:BD:209:ALA:O	38:BD:210:GLY:O	2.34	0.46
39:BE:201:THR:OG1	39:BE:202:LYS:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.29	0.46
41:BG:111:LEU:HA	41:BG:114:ILE:CD1	2.46	0.46
41:BG:151:ALA:HB3	41:BG:153:ARG:NH1	2.30	0.46
41:BG:166:ASP:O	41:BG:169:ALA:HB3	2.15	0.46
42:BH:46:GLU:H	42:BH:46:GLU:CD	2.24	0.46
46:BO:64:ARG:HG2	46:BO:79:PHE:CG	2.50	0.46
47:BP:41:ARG:HE	47:BP:41:ARG:HA	1.79	0.46
50:BS:16:ASN:OD1	50:BS:20:ARG:NH2	2.48	0.46
51:BT:35:LYS:NZ	51:BT:41:ARG:HH21	2.13	0.46
51:BT:38:ASN:C	51:BT:38:ASN:HD22	2.22	0.46
51:BT:129:ARG:HG3	51:BT:129:ARG:O	2.16	0.46
53:BV:29:PRO:O	53:BV:61:VAL:HG23	2.16	0.46
56:BY:77:PRO:O	56:BY:78:ALA:CB	2.63	0.46
1:CA:20:U:C2	1:CA:916:G:N1	2.83	0.46
1:CA:36:C:C4	1:CA:37:U:C5	3.03	0.46
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.50	0.46
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.95	0.46
1:CA:1124:G:C2'	1:CA:1125:U:H5'	2.44	0.46
1:CA:1234:C:H2'	1:CA:1235:U:C6	2.51	0.46
1:CA:1418:A:C2	1:CA:1483:A:C2	3.04	0.46
1:CA:1519:A:H2'	1:CA:1520:G:H5'	1.97	0.46
2:CB:12:GLU:HB2	2:CB:16:HIS:HB2	1.97	0.46
2:CB:174:VAL:HG13	2:CB:184:VAL:HG11	1.97	0.46
2:CB:207:ALA:O	2:CB:211:ILE:HG13	2.16	0.46
6:CF:62:TRP:CG	18:CR:35:ARG:NH1	2.83	0.46
10:CJ:62:HIS:CD2	10:CJ:62:HIS:H	2.33	0.46
13:CM:21:TYR:C	13:CM:22:ILE:HG13	2.40	0.46
14:CN:21:TYR:HE2	14:CN:23:ARG:NH2	2.13	0.46
16:CP:25:ARG:O	16:CP:26:ARG:C	2.57	0.46
20:CT:99:LEU:HD23	20:CT:99:LEU:C	2.39	0.46
24:CY:5:TYR:HB2	24:CY:7:HIS:CE1	2.50	0.46
27:D2:40:SER:C	27:D2:42:GLY:H	2.23	0.46
35:DA:127:A:H5''	35:DA:128:C:C6	2.51	0.46
35:DA:154(A):C:H5	35:DA:171:G:N1	2.14	0.46
35:DA:322:A:OP2	40:DF:169:ASN:HB2	2.15	0.46
35:DA:1221:C:H2'	35:DA:1221(A):C:C6	2.50	0.46
35:DA:1344:G:H4'	35:DA:1384:A:C5	2.50	0.46
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.14	0.46
35:DA:1499:C:O2'	35:DA:1500:G:H5'	2.15	0.46
35:DA:1528(A):A:N7	35:DA:1529:G:C8	2.83	0.46
35:DA:1686:C:H5'	35:DA:1687:G:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.80	0.46
35:DA:2491:U:C5'	35:DA:2570:G:H5''	2.26	0.46
35:DA:2672:G:H3'	35:DA:2673:G:H5''	1.97	0.46
38:DD:133:LEU:HD13	38:DD:173:VAL:CG1	2.44	0.46
40:DF:53:THR:C	40:DF:55:GLY:H	2.24	0.46
41:DG:108:ASN:N	41:DG:108:ASN:ND2	2.60	0.46
41:DG:119:GLY:HA3	41:DG:181:ARG:HB3	1.96	0.46
42:DH:156:ALA:O	42:DH:158:HIS:N	2.49	0.46
44:DJ:57:UNK:O	44:DJ:58:UNK:C	2.63	0.46
45:DN:46:VAL:HG13	45:DN:48:MET:HG2	1.96	0.46
46:DO:91:LEU:HD12	46:DO:111:PHE:CE1	2.51	0.46
48:DQ:55:VAL:O	48:DQ:56:ARG:C	2.58	0.46
51:DT:3:ARG:O	51:DT:5:ALA:N	2.48	0.46
51:DT:8:LYS:C	51:DT:11:GLU:HB2	2.40	0.46
51:DT:23:ARG:C	51:DT:25:GLY:H	2.22	0.46
52:DU:79:PHE:O	52:DU:83:LEU:CD1	2.63	0.46
1:AA:8:A:C5'	5:AE:120:THR:O	2.64	0.46
1:AA:15:G:H2'	1:AA:16:A:C8	2.51	0.46
1:AA:261:U:C5	20:AT:79:ARG:CZ	2.98	0.46
1:AA:490:G:H2'	1:AA:491:G:H8	1.81	0.46
1:AA:697:U:H2'	1:AA:698:G:H5'	1.97	0.46
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.15	0.46
1:AA:1381:U:H5	1:AA:1382:C:C4	2.33	0.46
2:AB:11:LEU:HD12	2:AB:217:ARG:CZ	2.46	0.46
3:AC:94:LEU:HD23	3:AC:94:LEU:N	2.11	0.46
5:AE:76:ILE:HB	5:AE:77:PRO:HD2	1.97	0.46
6:AF:52:ILE:CD1	6:AF:87:ARG:HH22	2.28	0.46
9:AI:39:GLY:O	9:AI:41:VAL:HG23	2.15	0.46
10:AJ:8:LEU:HD12	10:AJ:20:ALA:HB2	1.98	0.46
11:AK:31:THR:O	11:AK:31:THR:HG23	2.15	0.46
11:AK:33:THR:HB	11:AK:37:GLY:C	2.40	0.46
11:AK:121:PRO:O	11:AK:122:LYS:O	2.33	0.46
11:AK:124:LYS:CB	11:AK:124:LYS:NZ	2.78	0.46
12:AL:2:PRO:O	12:AL:3:THR:O	2.34	0.46
12:AL:117:TYR:CD1	12:AL:117:TYR:N	2.83	0.46
16:AP:51:VAL:CG1	16:AP:52:ASP:H	2.28	0.46
35:BA:298:G:OP1	56:BY:85:VAL:HG22	2.16	0.46
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.15	0.46
35:BA:2123:G:H2'	35:BA:2124:G:H8	1.80	0.46
35:BA:2262:U:H4'	35:BA:2328:A:C2	2.50	0.46
35:BA:2563:U:O2	35:BA:2565:A:H8	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:74:U:C2'	36:BB:75:G:C5'	2.84	0.46
36:BB:104:U:O2'	36:BB:105:A:H5'	2.14	0.46
38:BD:213:ARG:HD2	38:BD:217:ARG:O	2.16	0.46
38:BD:242:ARG:HA	38:BD:242:ARG:HD3	1.65	0.46
40:BF:15:SER:O	40:BF:16:GLY:O	2.32	0.46
40:BF:89:VAL:HG12	40:BF:90:PHE:CD2	2.50	0.46
41:BG:151:ALA:H	41:BG:153:ARG:HH12	1.62	0.46
42:BH:23:ARG:HD2	42:BH:25:LYS:HZ1	1.81	0.46
42:BH:49:VAL:HG23	42:BH:50:VAL:N	2.30	0.46
42:BH:62:LYS:C	42:BH:64:LEU:N	2.74	0.46
43:BI:62:LYS:HA	43:BI:133:HIS:CD2	2.50	0.46
45:BN:62:VAL:CG2	45:BN:66:LYS:HB2	2.44	0.46
48:BQ:55:VAL:HG21	57:BZ:182:LYS:HE3	1.97	0.46
49:BR:13:HIS:O	49:BR:14:SER:C	2.57	0.46
49:BR:56:LYS:C	49:BR:58:GLY:H	2.23	0.46
50:BS:58:LEU:O	50:BS:59:LYS:O	2.33	0.46
51:BT:5:ALA:O	51:BT:8:LYS:N	2.47	0.46
53:BV:39:LEU:O	53:BV:40:LEU:CB	2.61	0.46
53:BV:95:LEU:HD23	53:BV:95:LEU:C	2.40	0.46
57:BZ:44:PHE:CD1	57:BZ:44:PHE:C	2.93	0.46
1:CA:57:G:H2'	1:CA:58:C:C6	2.51	0.46
1:CA:142:G:H2'	1:CA:143:A:H8	1.80	0.46
1:CA:180:U:O2'	1:CA:181:G:H5'	2.15	0.46
1:CA:187:C:O2'	20:CT:89:ARG:HD2	2.15	0.46
1:CA:708:C:H2'	1:CA:709:G:C8	2.51	0.46
1:CA:865:A:H2	1:CA:918:A:C4'	2.24	0.46
1:CA:918:A:O2'	1:CA:919:A:H5'	2.16	0.46
1:CA:936:C:O2'	1:CA:937:A:H5'	2.16	0.46
1:CA:1488:G:N2	1:CA:1489:G:N7	2.63	0.46
2:CB:9:GLU:OE2	2:CB:10:LEU:N	2.48	0.46
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.16	0.46
3:CC:36:ASP:HB3	3:CC:40:ARG:HH12	1.80	0.46
7:CG:15:ASP:O	7:CG:19:GLY:HA2	2.16	0.46
9:CI:26:VAL:HG13	9:CI:61:ALA:O	2.16	0.46
9:CI:79:LEU:HD13	9:CI:101:PHE:O	2.16	0.46
16:CP:71:ARG:HA	16:CP:74:LEU:HD12	1.97	0.46
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.96	0.46
25:D0:23:VAL:HB	25:D0:26:TYR:CE2	2.50	0.46
28:D3:50:VAL:HG23	28:D3:54:VAL:HG21	1.97	0.46
33:D8:37:SER:O	33:D8:39:LYS:N	2.47	0.46
35:DA:150:C:H2'	35:DA:151:C:H6	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:225:A:C2'	35:DA:226:G:H5'	2.45	0.46
35:DA:419:C:H2'	35:DA:420:C:H6	1.80	0.46
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.79	0.46
35:DA:1547:C:H2'	35:DA:1548:C:C6	2.50	0.46
35:DA:2138:C:H2'	35:DA:2139:C:C6	2.49	0.46
38:DD:53:PHE:CD1	38:DD:219:PRO:O	2.68	0.46
38:DD:70:TRP:C	38:DD:72:LYS:H	2.24	0.46
38:DD:102:LYS:O	38:DD:103:ARG:HG2	2.15	0.46
39:DE:1:MET:C	39:DE:84:PHE:HB2	2.41	0.46
41:DG:32:PRO:HG3	41:DG:168:GLU:HB2	1.96	0.46
41:DG:117:PHE:CZ	41:DG:179:PRO:CG	2.98	0.46
42:DH:8:PRO:C	42:DH:9:ILE:HG12	2.40	0.46
42:DH:62:LYS:C	42:DH:64:LEU:N	2.74	0.46
42:DH:85:LYS:O	42:DH:133:VAL:N	2.48	0.46
46:DO:104:ARG:NH1	46:DO:104:ARG:CB	2.79	0.46
48:DQ:134:ARG:C	48:DQ:137:TYR:HD2	2.24	0.46
51:DT:23:ARG:H	51:DT:120:ARG:HH12	1.63	0.46
51:DT:57:PHE:CG	51:DT:58:ASN:N	2.83	0.46
52:DU:101:ARG:O	52:DU:102:GLU:CB	2.64	0.46
1:AA:10:A:O2'	1:AA:11:G:H5'	2.15	0.46
1:AA:15:G:H1'	5:AE:19:MET:SD	2.56	0.46
1:AA:19:C:O2'	1:AA:20:U:H5'	2.15	0.46
1:AA:39:G:C2	1:AA:40:C:C6	3.03	0.46
1:AA:187:C:O2'	20:AT:89:ARG:HD2	2.14	0.46
1:AA:341:C:H2'	1:AA:342:C:H6	1.79	0.46
1:AA:782:A:C2'	1:AA:783:C:H5'	2.46	0.46
1:AA:908:A:H2'	1:AA:909:A:H8	1.81	0.46
1:AA:1301:U:H5''	1:AA:1303:C:H41	1.81	0.46
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.98	0.46
2:AB:80:ILE:HG21	2:AB:211:ILE:HG22	1.97	0.46
2:AB:97:TRP:CH2	2:AB:173:ALA:N	2.83	0.46
2:AB:166:ASP:OD2	2:AB:167:PRO:HD2	2.15	0.46
3:AC:32:LEU:HB3	3:AC:59:ARG:NH2	2.24	0.46
3:AC:44:GLU:HA	3:AC:52:LEU:HD21	1.97	0.46
6:AF:45:LEU:HD21	6:AF:57:GLN:OE1	2.16	0.46
6:AF:52:ILE:HD13	6:AF:87:ARG:HH22	1.80	0.46
7:AG:11:GLN:NE2	7:AG:12:LEU:H	2.13	0.46
9:AI:10:ARG:HA	9:AI:104:ARG:HH12	1.80	0.46
11:AK:17:GLY:CA	11:AK:80:VAL:HG12	2.45	0.46
16:AP:55:ARG:O	16:AP:56:ALA:C	2.58	0.46
17:AQ:4:LYS:HD3	17:AQ:5:VAL:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:81:PHE:O	18:AR:82:THR:CB	2.63	0.46
20:AT:96:GLY:O	20:AT:97:ALA:HB3	2.16	0.46
23:AX:21:C:HO2'	23:AX:22:A:H5''	1.78	0.46
26:B1:56:GLN:NE2	26:B1:85:LEU:HG	2.31	0.46
27:B2:36:ARG:NH2	55:BX:8:ILE:O	2.48	0.46
34:B9:29:ASN:ND2	34:B9:31:LYS:HB2	2.31	0.46
35:BA:1036:G:O2'	35:BA:1037:G:H5'	2.16	0.46
35:BA:1532:C:OP1	35:BA:1533:G:OP1	2.34	0.46
35:BA:1767:C:O2'	35:BA:1768:U:H5'	2.15	0.46
35:BA:2642:G:O2'	35:BA:2643:G:H5'	2.14	0.46
35:BA:2768:C:C2'	35:BA:2769:C:H5'	2.45	0.46
38:BD:16:MET:HE3	38:BD:206:LEU:O	2.14	0.46
39:BE:67:PHE:O	39:BE:70:ALA:HB2	2.15	0.46
40:BF:2:LYS:C	40:BF:4:VAL:H	2.23	0.46
40:BF:116:ASP:OD1	40:BF:119:ARG:NH2	2.49	0.46
40:BF:125:LEU:HA	40:BF:194:MET:O	2.15	0.46
41:BG:96:ARG:HG2	41:BG:97:ASP:N	2.31	0.46
42:BH:124:GLU:CD	42:BH:132:ARG:HG3	2.40	0.46
45:BN:17:ASP:O	45:BN:18:ALA:C	2.58	0.46
46:BO:2:ILE:CD1	46:BO:82:ASN:ND2	2.69	0.46
47:BP:83:VAL:H	47:BP:115:LEU:CD2	2.29	0.46
47:BP:126:VAL:CG1	47:BP:148:LEU:HD11	2.31	0.46
53:BV:52:VAL:HG13	53:BV:52:VAL:O	2.15	0.46
56:BY:8:LYS:CD	56:BY:8:LYS:N	2.75	0.46
56:BY:65:ALA:HB1	56:BY:66:PRO:HD2	1.96	0.46
57:BZ:11:GLU:H	57:BZ:11:GLU:CD	2.23	0.46
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.51	0.46
1:CA:560:U:H4'	1:CA:561:U:H5''	1.98	0.46
1:CA:640:A:O2'	8:CH:116:LYS:NZ	2.49	0.46
1:CA:1124:G:H22	1:CA:1280:A:N6	2.14	0.46
1:CA:1192:C:C5	1:CA:1193:G:C8	3.03	0.46
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.50	0.46
2:CB:17:PHE:HB3	2:CB:44:LEU:HD11	1.97	0.46
4:CD:191:ARG:HH11	4:CD:191:ARG:HG3	1.81	0.46
6:CF:97:PHE:O	18:CR:30:ASP:HA	2.15	0.46
6:CF:100:ASN:HD21	18:CR:23:LYS:CG	2.29	0.46
10:CJ:43:ARG:HH11	10:CJ:43:ARG:HG3	1.81	0.46
11:CK:124:LYS:NZ	11:CK:124:LYS:CB	2.78	0.46
11:CK:126:ARG:O	11:CK:128:ALA:N	2.49	0.46
12:CL:30:ARG:HD3	12:CL:59:SER:HB3	1.97	0.46
13:CM:94:ARG:HD2	13:CM:94:ARG:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:14:HIS:CD2	19:CS:14:HIS:N	2.84	0.46
22:CW:70:G:O2'	22:CW:71:C:H5'	2.15	0.46
25:D0:37:LEU:HG	25:D0:60:PHE:HA	1.97	0.46
27:D2:48:HIS:HD1	35:DA:95:G:HO2'	1.61	0.46
29:D4:24:THR:HG23	41:DG:5:VAL:CG1	2.46	0.46
31:D6:20:ASN:C	31:D6:21:TYR:CD1	2.94	0.46
33:D8:54:GLU:O	33:D8:58:ILE:HG12	2.16	0.46
34:D9:29:ASN:ND2	34:D9:31:LYS:HB2	2.30	0.46
34:D9:31:LYS:HD3	35:DA:2528:U:C5'	2.46	0.46
35:DA:1188:U:H2'	35:DA:1189:A:H5'	1.97	0.46
35:DA:1190:G:H5'	47:DP:35:HIS:N	2.29	0.46
35:DA:2533:A:H5'	35:DA:2665:A:H1'	1.98	0.46
38:DD:83:GLU:HG3	38:DD:92:ILE:HD11	1.97	0.46
38:DD:113:VAL:HG12	38:DD:114:GLY:H	1.81	0.46
41:DG:36:LYS:HG2	41:DG:37:VAL:N	2.31	0.46
44:DJ:22:UNK:O	44:DJ:119:UNK:HA	2.16	0.46
45:DN:71:ILE:HG21	45:DN:84:LYS:HB3	1.97	0.46
47:DP:59:LEU:CA	47:DP:61:ARG:NH2	2.77	0.46
47:DP:97:PRO:C	47:DP:98:GLU:HG3	2.41	0.46
49:DR:66:VAL:HG12	49:DR:70:LEU:HD12	1.97	0.46
49:DR:82:GLU:OE2	49:DR:82:GLU:N	2.48	0.46
50:DS:68:GLN:C	50:DS:70:GLY:N	2.72	0.46
53:DV:5:VAL:HG21	53:DV:35:LEU:CB	2.45	0.46
54:DW:64:MET:CE	54:DW:109:GLU:HG2	2.42	0.46
56:DY:68:HIS:HB3	56:DY:71:LYS:HG2	1.98	0.46
1:AA:294:U:H2'	1:AA:295:C:H6	1.81	0.46
1:AA:512:U:H2'	1:AA:513:C:C6	2.50	0.46
1:AA:1493:A3P:O3P	1:AA:1493:A3P:O2'	2.31	0.46
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.50	0.46
2:AB:20:GLU:O	2:AB:39:ILE:HG23	2.15	0.46
4:AD:8:VAL:HG11	4:AD:115:ARG:CZ	2.45	0.46
5:AE:11:ILE:CD1	5:AE:31:LEU:HD12	2.42	0.46
5:AE:70:PRO:HB2	5:AE:144:THR:HG22	1.96	0.46
7:AG:140:ASP:HA	7:AG:143:ARG:HH11	1.81	0.46
9:AI:126:SER:O	9:AI:127:LYS:CB	2.64	0.46
12:AL:81:LEU:HD13	12:AL:102:TYR:HE1	1.81	0.46
13:AM:14:ARG:HA	13:AM:44:ARG:HA	1.96	0.46
13:AM:79:LYS:HG3	13:AM:82:MET:HE3	1.98	0.46
19:AS:40:ILE:HD12	19:AS:62:ILE:CD1	2.46	0.46
19:AS:72:GLY:C	19:AS:74:PHE:N	2.73	0.46
26:B1:44:PRO:O	26:B1:46:LEU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:30:ARG:O	27:B2:30:ARG:HG2	2.15	0.46
28:B3:8:LEU:HD22	28:B3:31:LEU:CD2	2.45	0.46
30:B5:16:ARG:HD2	30:B5:20:ARG:NH2	2.31	0.46
31:B6:15:GLU:OE1	31:B6:18:ARG:CD	2.63	0.46
33:B8:54:GLU:O	33:B8:58:ILE:HG12	2.15	0.46
35:BA:127:A:H5''	35:BA:128:C:C6	2.51	0.46
35:BA:971:C:H2'	35:BA:972:G:C5'	2.45	0.46
35:BA:1021:A:H8	35:BA:1022:G:H5''	1.80	0.46
35:BA:1316:U:H2'	35:BA:1317:A:C8	2.50	0.46
35:BA:1593:G:H2'	35:BA:1594:G:C8	2.50	0.46
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.46	0.46
35:BA:2807:G:H2'	35:BA:2808:U:H5''	1.97	0.46
35:BA:2822:G:O6	49:BR:4:LEU:HD23	2.16	0.46
35:BA:2877:G:O2'	35:BA:2878:U:H5'	2.15	0.46
40:BF:65:TRP:HH2	40:BF:73:ALA:O	1.98	0.46
40:BF:198:ALA:C	40:BF:200:GLU:H	2.22	0.46
41:BG:78:SER:O	41:BG:80:PHE:N	2.49	0.46
42:BH:8:PRO:C	42:BH:9:ILE:CG1	2.87	0.46
42:BH:20:ALA:HB3	42:BH:23:ARG:CG	2.46	0.46
45:BN:30:ILE:HD13	45:BN:54:VAL:HG21	1.98	0.46
47:BP:16:ARG:NH1	47:BP:16:ARG:HB2	2.30	0.46
47:BP:49:ARG:NH2	47:BP:50:ARG:HH22	2.13	0.46
53:BV:5:VAL:HG21	53:BV:35:LEU:HB3	1.96	0.46
53:BV:18:LEU:CG	53:BV:19:LYS:H	2.29	0.46
1:CA:18:C:C2	1:CA:918:A:C2	3.03	0.46
1:CA:632:A:H3'	1:CA:633:G:H5'	1.98	0.46
1:CA:751:U:O2'	1:CA:752:G:H5'	2.15	0.46
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.48	0.46
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.97	0.46
2:CB:57:PHE:CE2	2:CB:185:ILE:HD11	2.51	0.46
2:CB:168:THR:OG1	2:CB:191:ASP:HB3	2.14	0.46
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.40	0.46
5:CE:43:LEU:CD2	5:CE:132:ALA:HB1	2.43	0.46
5:CE:123:LEU:O	5:CE:124:GLY:C	2.58	0.46
7:CG:16:LEU:HD12	9:CI:42:ARG:HA	1.97	0.46
10:CJ:8:LEU:HD12	10:CJ:20:ALA:HB2	1.97	0.46
13:CM:8:GLU:OE1	13:CM:8:GLU:N	2.43	0.46
13:CM:93:ARG:HG3	35:DA:888:C:OP2	2.15	0.46
18:CR:76:LEU:C	18:CR:78:LEU:H	2.23	0.46
20:CT:26:ASN:O	20:CT:30:LYS:HB2	2.15	0.46
20:CT:42:GLN:HA	20:CT:42:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:47:U:H5''	22:CW:48:C:H5'	1.98	0.46
26:D1:27:GLU:O	26:D1:28:GLY:C	2.59	0.46
27:D2:30:ARG:HG3	27:D2:30:ARG:NH1	2.30	0.46
32:D7:3:ARG:HA	32:D7:3:ARG:HD3	1.79	0.46
34:D9:22:ARG:NH2	35:DA:2741:A:OP1	2.49	0.46
35:DA:230:U:O2'	35:DA:231:C:H5'	2.15	0.46
35:DA:247:G:H4'	35:DA:386:G:C5	2.50	0.46
35:DA:422:A:C6	35:DA:423:A:C6	3.03	0.46
35:DA:483:A:H4'	56:DY:49:VAL:HG22	1.96	0.46
35:DA:667:U:H2'	35:DA:668:G:O4'	2.16	0.46
35:DA:882:G:H2'	35:DA:883:G:C8	2.50	0.46
35:DA:1782:C:O2'	35:DA:2609:U:H5''	2.15	0.46
35:DA:2063:C:O2	35:DA:2450:A:N1	2.49	0.46
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.50	0.46
38:DD:28:GLU:N	38:DD:29:PRO:HD2	2.30	0.46
38:DD:94:LEU:CD2	38:DD:94:LEU:C	2.89	0.46
40:DF:3:GLU:HA	40:DF:24:LEU:HB2	1.96	0.46
40:DF:164:ARG:HH11	40:DF:164:ARG:HG2	1.79	0.46
41:DG:123:ASN:C	41:DG:125:PHE:H	2.24	0.46
42:DH:7:LEU:O	42:DH:69:ARG:HD2	2.15	0.46
42:DH:83:TYR:HB3	42:DH:135:GLY:C	2.41	0.46
51:DT:91:ARG:HB3	51:DT:117:ASP:N	2.31	0.46
56:DY:34:LYS:HB3	56:DY:34:LYS:HZ3	1.81	0.46
57:DZ:3:TYR:O	57:DZ:58:VAL:HG23	2.15	0.46
1:AA:130:A:C8	17:AQ:63:ARG:HG3	2.51	0.46
1:AA:581:G:OP1	15:AO:61:GLY:HA3	2.16	0.46
1:AA:625:G:H2'	1:AA:626:U:C6	2.51	0.46
1:AA:751:U:O2'	1:AA:752:G:H5'	2.16	0.46
1:AA:805:C:H2'	1:AA:806:C:H6	1.81	0.46
1:AA:967:C:H2'	1:AA:968:A:C8	2.51	0.46
1:AA:1128:C:N4	1:AA:1143:G:H1	2.09	0.46
1:AA:1152:A:H5''	10:AJ:13:HIS:CE1	2.51	0.46
1:AA:1223:C:O5'	1:AA:1224:G:H5''	2.16	0.46
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.80	0.46
1:AA:1312:G:H1	1:AA:1325:C:H42	1.63	0.46
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.16	0.46
2:AB:61:LEU:HD11	2:AB:160:ASP:HB2	1.96	0.46
6:AF:30:LEU:H	6:AF:30:LEU:HD23	1.80	0.46
6:AF:62:TRP:CG	18:AR:35:ARG:NH1	2.84	0.46
8:AH:29:SER:C	8:AH:31:PHE:N	2.73	0.46
10:AJ:100:THR:CG2	10:AJ:101:VAL:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:88:GLY:O	11:AK:90:GLY:N	2.49	0.46
11:AK:126:ARG:O	11:AK:128:ALA:N	2.49	0.46
12:AL:33:VAL:N	12:AL:55:VAL:HG13	2.31	0.46
13:AM:65:LYS:HA	13:AM:66:LEU:N	2.31	0.46
15:AO:17:ARG:HG3	15:AO:17:ARG:HH11	1.80	0.46
19:AS:12:ASP:O	19:AS:16:LEU:HB2	2.16	0.46
22:AW:21:A:H3'	22:AW:21:A:OP1	2.16	0.46
22:AW:38:A:C2'	22:AW:39:C:H5'	2.46	0.46
25:B0:43:THR:HG22	35:BA:2332:U:H5'	1.97	0.46
29:B4:56:VAL:CG1	29:B4:57:GLU:H	2.18	0.46
33:B8:63:PRO:O	33:B8:64:TYR:O	2.33	0.46
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.16	0.46
35:BA:186:G:O2'	35:BA:187:G:H5'	2.16	0.46
35:BA:225:A:C2'	35:BA:226:G:H5'	2.46	0.46
35:BA:660:G:H5'	40:BF:99:TYR:CD2	2.50	0.46
35:BA:1504:C:C3'	35:BA:1505:C:H5''	2.45	0.46
35:BA:1526:G:C6	35:BA:1527:G:C2	3.04	0.46
35:BA:1530:C:O2	35:BA:1530:C:C2'	2.61	0.46
35:BA:2601:C:H2'	35:BA:2603:G:C8	2.51	0.46
35:BA:2639:A:C2'	35:BA:2640:G:H5'	2.45	0.46
35:BA:2649:U:H2'	35:BA:2650:U:C6	2.51	0.46
35:BA:2876:G:O2'	35:BA:2877:G:H5'	2.16	0.46
40:BF:196:LEU:O	40:BF:198:ALA:N	2.48	0.46
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.46	0.46
42:BH:60:ARG:O	42:BH:64:LEU:HD23	2.16	0.46
42:BH:144:VAL:HA	42:BH:147:ASN:CB	2.42	0.46
43:BI:77:LEU:HD22	43:BI:140:LEU:CD2	2.46	0.46
43:BI:79:ILE:HG22	43:BI:81:VAL:H	1.80	0.46
45:BN:39:ARG:C	45:BN:41:ASP:N	2.74	0.46
46:BO:104:ARG:NH2	51:BT:33:LYS:HZ3	2.06	0.46
51:BT:57:PHE:CG	51:BT:58:ASN:N	2.83	0.46
53:BV:20:LEU:N	53:BV:20:LEU:HD12	2.30	0.46
55:BX:7:VAL:CG1	55:BX:39:ILE:HD13	2.45	0.46
57:BZ:24:LEU:HD11	57:BZ:86:VAL:CG2	2.29	0.46
57:BZ:141:VAL:HA	57:BZ:144:LEU:HD21	1.98	0.46
57:BZ:151:HIS:CB	57:BZ:170:THR:HG23	2.44	0.46
1:CA:59:A:H1'	1:CA:354:G:N2	2.29	0.46
1:CA:238:G:O2'	1:CA:239:U:H5'	2.16	0.46
1:CA:419:C:H42	1:CA:424:G:H1	1.62	0.46
1:CA:865:A:C2	1:CA:918:A:C4'	2.98	0.46
1:CA:865:A:O2'	1:CA:919:A:C4'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1060:C:H4'	10:CJ:52:GLY:CA	2.43	0.46
1:CA:1316:G:H5''	14:CN:17:LYS:CE	2.45	0.46
1:CA:1434:A:H62	1:CA:1435:G:N2	2.13	0.46
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.50	0.46
5:CE:6:PHE:HZ	5:CE:40:ARG:HH21	1.63	0.46
5:CE:70:PRO:HB2	5:CE:144:THR:HG22	1.98	0.46
5:CE:139:LEU:CA	5:CE:142:LEU:HD12	2.42	0.46
7:CG:92:SER:OG	7:CG:93:PRO:HD2	2.16	0.46
9:CI:39:GLY:O	9:CI:41:VAL:HG23	2.16	0.46
11:CK:80:VAL:HG23	11:CK:80:VAL:O	2.16	0.46
11:CK:126:ARG:C	11:CK:128:ALA:N	2.74	0.46
12:CL:81:LEU:HD13	12:CL:102:TYR:HE1	1.80	0.46
22:CV:26:G:H1	22:CV:45:G:N2	2.14	0.46
22:CV:54:U:H2'	22:CV:55:U:C5'	2.43	0.46
22:CW:24:U:O2'	22:CW:25:C:H5'	2.16	0.46
58:CX:17:U:O2	58:CX:17:U:H2'	2.15	0.46
26:D1:21:ARG:O	26:D1:32:LYS:HA	2.16	0.46
35:DA:105:C:H2'	35:DA:106:C:H6	1.80	0.46
35:DA:336:C:H4'	56:DY:7:VAL:HG21	1.96	0.46
35:DA:414:C:H2'	35:DA:415:A:C8	2.51	0.46
35:DA:533:G:H5'	52:DU:24:TYR:CE2	2.50	0.46
35:DA:535:C:C2'	35:DA:536:A:H5'	2.45	0.46
35:DA:651:G:N2	35:DA:652:C:N4	2.62	0.46
35:DA:795:C:H2'	35:DA:796:C:H6	1.81	0.46
35:DA:1485:G:H2'	35:DA:1486:A:C8	2.51	0.46
35:DA:1530:C:O2'	35:DA:1531:C:H5''	2.15	0.46
35:DA:2320:A:H4'	35:DA:2321:G:C5	2.51	0.46
36:DB:24:G:H5'	36:DB:25:A:N7	2.30	0.46
38:DD:215:LEU:HD12	38:DD:217:ARG:HH21	1.81	0.46
40:DF:120:GLU:C	40:DF:122:LYS:H	2.24	0.46
41:DG:4:ASP:HB2	41:DG:8:LYS:HD3	1.98	0.46
41:DG:16:ARG:NH2	41:DG:33:ARG:HD3	2.25	0.46
41:DG:77:ILE:HG22	41:DG:77:ILE:O	2.16	0.46
45:DN:54:VAL:HB	45:DN:122:VAL:HG22	1.97	0.46
47:DP:71:VAL:HG13	47:DP:72:PRO:HD3	1.98	0.46
48:DQ:61:GLY:O	57:DZ:177:PRO:HB2	2.15	0.46
49:DR:49:ASP:C	49:DR:51:LEU:N	2.74	0.46
49:DR:116:LEU:O	49:DR:117:VAL:C	2.59	0.46
50:DS:41:ASP:CB	50:DS:48:LEU:HD11	2.46	0.46
51:DT:12:SER:O	51:DT:15:VAL:HG13	2.16	0.46
51:DT:28:VAL:HA	51:DT:45:PHE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:102:GLU:N	52:DU:103:PRO:CD	2.79	0.46
57:DZ:27:VAL:N	57:DZ:86:VAL:O	2.42	0.46
57:DZ:29:TYR:CB	57:DZ:34:ASN:HB2	2.46	0.46
1:AA:59:A:H1'	1:AA:354:G:N2	2.31	0.46
1:AA:221:C:O2'	1:AA:222:U:H5'	2.16	0.46
1:AA:272:C:C2	1:AA:273:A:C8	3.04	0.46
1:AA:312:C:O2'	1:AA:313:A:H5'	2.16	0.46
1:AA:357:G:O2'	1:AA:358:U:H5'	2.15	0.46
1:AA:676:A:O2'	1:AA:677:U:H5'	2.16	0.46
1:AA:1125:U:H4'	1:AA:1126:U:H5	1.80	0.46
2:AB:187:LEU:HD13	2:AB:205:ASP:CA	2.45	0.46
3:AC:35:GLU:HG2	3:AC:39:ILE:HD11	1.96	0.46
3:AC:62:ASP:HA	3:AC:97:LYS:HE2	1.97	0.46
5:AE:39:GLY:HA3	5:AE:71:LEU:HD11	1.96	0.46
5:AE:103:GLY:C	5:AE:105:VAL:N	2.73	0.46
8:AH:20:TYR:HD1	8:AH:65:TYR:CE2	2.33	0.46
9:AI:103:THR:O	9:AI:104:ARG:C	2.59	0.46
11:AK:80:VAL:O	11:AK:80:VAL:HG23	2.16	0.46
11:AK:101:SER:C	11:AK:103:LEU:N	2.70	0.46
13:AM:9:ILE:HG22	13:AM:9:ILE:O	2.16	0.46
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.49	0.46
22:AW:3:C:H42	22:AW:70:G:H1	1.62	0.46
24:AY:30:LYS:HE3	24:AY:95:TYR:O	2.16	0.46
25:B0:66:VAL:CG1	25:B0:67:VAL:H	2.29	0.46
33:B8:2:PRO:O	33:B8:3:LYS:CB	2.64	0.46
35:BA:92:A:H2'	35:BA:93:G:O4'	2.16	0.46
35:BA:146:G:H2'	35:BA:147:U:O4'	2.15	0.46
35:BA:244:A:O3'	47:BP:74:GLU:HB3	2.14	0.46
35:BA:512:G:C2'	35:BA:513:A:OP2	2.64	0.46
35:BA:520:G:O2'	35:BA:521:G:H5'	2.16	0.46
35:BA:863:A:O2'	35:BA:864:G:H5'	2.15	0.46
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.45	0.46
35:BA:1449:A:H2	35:BA:1529:G:H1'	1.72	0.46
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.50	0.46
35:BA:2124:G:C2'	35:BA:2125:G:H5'	2.45	0.46
35:BA:2158:A:C4'	35:BA:2159:G:H5'	2.46	0.46
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.49	0.46
38:BD:43:ARG:HH11	38:BD:44:ASN:ND2	2.13	0.46
38:BD:45:ASN:C	38:BD:46:GLN:OE1	2.59	0.46
38:BD:71:ASP:OD2	38:BD:103:ARG:NH2	2.48	0.46
41:BG:125:PHE:CZ	41:BG:131:TYR:CD1	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:95:ARG:N	42:BH:107:VAL:HG12	2.30	0.46
43:BI:140:LEU:HD23	43:BI:141:LYS:N	2.30	0.46
46:BO:69:ILE:HD12	46:BO:69:ILE:H	1.80	0.46
47:BP:16:ARG:HG3	47:BP:17:LYS:H	1.80	0.46
50:BS:90:GLY:O	50:BS:92:TYR:N	2.41	0.46
51:BT:88:ILE:HG22	51:BT:89:VAL:N	2.30	0.46
52:BU:25:TRP:CD1	52:BU:25:TRP:C	2.94	0.46
53:BV:52:VAL:O	53:BV:53:GLU:C	2.58	0.46
54:BW:85:VAL:CG1	54:BW:86:LEU:N	2.78	0.46
56:BY:11:ASP:O	56:BY:28:LYS:HE3	2.16	0.46
56:BY:76:CYS:CB	56:BY:96:ILE:HD11	2.46	0.46
57:BZ:128:VAL:HG22	57:BZ:129:SER:H	1.80	0.46
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.50	0.46
1:CA:556:C:C2'	1:CA:557:G:H5'	2.45	0.46
1:CA:572:A:O4'	1:CA:917:G:O4'	2.33	0.46
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.42	0.46
1:CA:1305:G:N2	1:CA:1331:G:H1'	2.29	0.46
1:CA:1381:U:H5	1:CA:1382:C:C4	2.34	0.46
1:CA:1442:G:H2'	51:DT:118:ARG:HH12	1.81	0.46
2:CB:21:ARG:C	2:CB:23:ARG:H	2.24	0.46
2:CB:219:VAL:O	2:CB:222:ILE:HB	2.16	0.46
3:CC:6:HIS:CD2	3:CC:7:PRO:HD2	2.49	0.46
4:CD:8:VAL:O	4:CD:11:LEU:HG	2.15	0.46
4:CD:20:TYR:CD2	4:CD:26:CYS:HB3	2.50	0.46
7:CG:20:ASP:O	7:CG:24:THR:HG23	2.15	0.46
7:CG:29:LYS:HB3	7:CG:105:VAL:HG21	1.97	0.46
7:CG:79:ARG:HG3	7:CG:84:ASN:OD1	2.16	0.46
7:CG:119:ARG:C	7:CG:121:ALA:N	2.73	0.46
8:CH:21:LYS:NZ	8:CH:21:LYS:HB3	2.31	0.46
9:CI:10:ARG:CZ	9:CI:105:ASP:HB2	2.46	0.46
9:CI:16:ARG:NE	9:CI:64:THR:HB	2.31	0.46
14:CN:4:LYS:HB2	14:CN:4:LYS:NZ	2.30	0.46
14:CN:58:LYS:C	14:CN:58:LYS:HD3	2.41	0.46
15:CO:53:HIS:O	15:CO:57:LEU:HG	2.16	0.46
18:CR:36:ASN:HB3	18:CR:39:VAL:HG21	1.98	0.46
18:CR:74:ARG:NH2	18:CR:81:PHE:HA	2.30	0.46
19:CS:11:VAL:CG2	19:CS:12:ASP:H	2.11	0.46
33:D8:33:ASN:N	33:D8:33:ASN:OD1	2.46	0.46
35:DA:271(F):C:O2'	35:DA:271(G):C:H5'	2.15	0.46
35:DA:609:A:H2'	35:DA:610:G:O4'	2.16	0.46
35:DA:613:G:H8	35:DA:613:G:C5'	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:716:A:C3'	35:DA:717:G:H5''	2.46	0.46
35:DA:860:U:C5	35:DA:917:A:N7	2.79	0.46
35:DA:991:C:H2'	35:DA:992:C:H6	1.81	0.46
35:DA:1223:G:C5'	35:DA:1224:C:OP2	2.64	0.46
35:DA:2111:C:O4'	35:DA:2118:U:H4'	2.15	0.46
35:DA:2649:U:H2'	35:DA:2650:U:C6	2.51	0.46
35:DA:2698:U:H2'	35:DA:2699:C:C6	2.51	0.46
35:DA:2732:G:O2'	35:DA:2733:A:H5'	2.16	0.46
35:DA:2773:C:O2'	35:DA:2774:C:H5'	2.15	0.46
36:DB:45:A:C4	36:DB:46:A:C8	3.04	0.46
40:DF:180:GLY:O	40:DF:181:LEU:C	2.58	0.46
41:DG:83:ARG:O	41:DG:84:LYS:O	2.34	0.46
41:DG:116:ASP:O	41:DG:117:PHE:HB3	2.16	0.46
42:DH:49:VAL:HG23	42:DH:50:VAL:N	2.30	0.46
43:DI:8:PRO:HB3	43:DI:15:VAL:N	2.30	0.46
48:DQ:41:TRP:HB3	48:DQ:94:VAL:HB	1.98	0.46
52:DU:86:ALA:HB3	52:DU:88:ILE:HG12	1.97	0.46
56:DY:11:ASP:O	56:DY:28:LYS:HE3	2.15	0.46
56:DY:96:ILE:CG2	56:DY:97:ARG:N	2.77	0.46
57:DZ:73:GLN:O	57:DZ:87:ASP:HB2	2.15	0.46
1:AA:6:G:N7	5:AE:119:LEU:HD11	2.31	0.46
1:AA:56:U:H2'	1:AA:57:G:C8	2.51	0.46
1:AA:402:G:O2'	1:AA:403:C:H5'	2.16	0.46
1:AA:630:G:H3'	1:AA:631:G:H5'	1.98	0.46
1:AA:678:U:O2'	1:AA:679:C:H5'	2.16	0.46
1:AA:827:U:O2'	1:AA:859:A:N1	2.42	0.46
1:AA:1198:G:H2'	1:AA:1199:U:C6	2.51	0.46
3:AC:93:LYS:HZ3	3:AC:93:LYS:CB	2.06	0.46
3:AC:150:LYS:HE3	3:AC:167:TRP:HE1	1.80	0.46
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.97	0.46
7:AG:20:ASP:O	7:AG:24:THR:HG23	2.15	0.46
8:AH:104:ARG:O	8:AH:105:ARG:HB3	2.16	0.46
10:AJ:76:ASN:O	10:AJ:78:ASN:N	2.42	0.46
10:AJ:86:MET:O	10:AJ:86:MET:HG3	2.16	0.46
12:AL:51:LYS:O	12:AL:67:ILE:HG13	2.15	0.46
19:AS:31:ILE:HG21	19:AS:49:ILE:HG22	1.98	0.46
20:AT:32:ALA:O	20:AT:36:LEU:HD23	2.15	0.46
24:AY:55:ASP:CG	24:AY:58:ALA:CB	2.88	0.46
27:B2:49:LYS:O	27:B2:53:LEU:HB2	2.16	0.46
31:B6:15:GLU:OE2	31:B6:43:CYS:SG	2.74	0.46
33:B8:55:ALA:O	33:B8:57:ARG:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:71:A:H5''	35:BA:73:A:C8	2.50	0.46
35:BA:118:A:C8	35:BA:119:A:C8	3.04	0.46
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.98	0.46
35:BA:1988:C:O2'	35:BA:1989:G:H5'	2.16	0.46
35:BA:2846:G:H2'	35:BA:2847:U:O4'	2.15	0.46
37:BC:68:LEU:HB3	37:BC:69:GLY:H	1.55	0.46
38:BD:32:SER:O	38:BD:36:PRO:CD	2.63	0.46
38:BD:83:GLU:HG3	38:BD:92:ILE:HD11	1.98	0.46
40:BF:46:ARG:HG3	40:BF:46:ARG:HH11	1.81	0.46
40:BF:110:LEU:O	40:BF:114:VAL:HG23	2.15	0.46
41:BG:17:PRO:HG2	41:BG:18:GLU:N	2.31	0.46
41:BG:48:GLU:O	41:BG:51:ARG:HG2	2.16	0.46
47:BP:79:ARG:HH21	47:BP:109:GLY:HA2	1.80	0.46
50:BS:28:VAL:HG12	50:BS:29:PHE:N	2.30	0.46
52:BU:21:ALA:HA	52:BU:24:TYR:CE1	2.51	0.46
57:BZ:29:TYR:HB3	57:BZ:34:ASN:HA	1.97	0.46
57:BZ:64:GLY:O	57:BZ:65:GLN:C	2.59	0.46
1:CA:783:C:H2'	1:CA:784:C:H6	1.80	0.46
1:CA:967:C:H4'	9:CI:125:TYR:CE2	2.50	0.46
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.79	0.46
1:CA:1334:G:H5'	1:CA:1335:C:OP2	2.15	0.46
2:CB:76:GLN:HG2	2:CB:206:ASP:O	2.16	0.46
3:CC:78:GLY:O	3:CC:79:ARG:HB3	2.15	0.46
3:CC:90:GLU:HA	3:CC:93:LYS:HZ3	1.79	0.46
3:CC:140:ARG:HH11	3:CC:140:ARG:CB	2.29	0.46
4:CD:31:CYS:C	4:CD:33:MET:N	2.64	0.46
4:CD:64:LEU:HD12	4:CD:198:VAL:HG21	1.98	0.46
4:CD:150:GLU:C	4:CD:152:SER:N	2.74	0.46
4:CD:157:LEU:HD12	4:CD:157:LEU:H	1.81	0.46
7:CG:57:GLU:N	7:CG:57:GLU:OE1	2.49	0.46
8:CH:61:VAL:O	8:CH:63:LEU:HD22	2.15	0.46
10:CJ:44:VAL:HG11	10:CJ:46:ARG:NH2	2.31	0.46
11:CK:54:ARG:NH1	22:CW:40:C:H5'	2.30	0.46
15:CO:8:LYS:HG3	15:CO:31:LEU:HD21	1.98	0.46
16:CP:80:PHE:CD1	16:CP:80:PHE:N	2.83	0.46
17:CQ:4:LYS:HD3	17:CQ:5:VAL:H	1.81	0.46
17:CQ:84:LEU:O	17:CQ:85:VAL:C	2.59	0.46
18:CR:47:THR:C	18:CR:83:GLU:OE1	2.59	0.46
19:CS:41:VAL:O	19:CS:42:PRO:O	2.34	0.46
20:CT:30:LYS:HE2	20:CT:30:LYS:CA	2.46	0.46
31:D6:11:LEU:C	31:D6:12:GLU:CD	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:580:C:H2'	35:DA:581:C:H6	1.80	0.46
35:DA:588:U:H1'	40:DF:90:PHE:CG	2.51	0.46
35:DA:614(A):U:H4'	35:DA:614(B):G:H5''	1.97	0.46
35:DA:1232:G:H2'	35:DA:1233:C:H6	1.79	0.46
35:DA:1412:A:O2'	35:DA:1413:G:H5'	2.15	0.46
35:DA:1516:C:H2'	35:DA:1517:G:H8	1.81	0.46
35:DA:1763:G:H2'	35:DA:1764:G:C5'	2.46	0.46
35:DA:2007:C:H2'	35:DA:2008:C:H6	1.80	0.46
35:DA:2051:A:H5'	35:DA:2578:G:O4'	2.16	0.46
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.50	0.46
35:DA:2848:G:H8	51:DT:97:ALA:HB2	1.81	0.46
37:DC:47:LEU:HB3	37:DC:207:THR:CB	2.46	0.46
37:DC:80:GLY:HA2	37:DC:96:GLY:CA	2.46	0.46
38:DD:213:ARG:HD2	38:DD:217:ARG:O	2.16	0.46
39:DE:203:LYS:HG3	39:DE:204:ALA:N	2.31	0.46
40:DF:2:LYS:HZ2	40:DF:119:ARG:HG3	1.80	0.46
40:DF:132:VAL:HG22	40:DF:133:ASN:ND2	2.31	0.46
42:DH:46:GLU:H	42:DH:46:GLU:CD	2.24	0.46
43:DI:77:LEU:HB3	43:DI:140:LEU:HA	1.96	0.46
44:DJ:74:UNK:C	44:DJ:76:UNK:N	2.77	0.46
44:DJ:131:UNK:O	44:DJ:132:UNK:CB	2.62	0.46
45:DN:128:HIS:CD2	45:DN:130:HIS:HB2	2.44	0.46
47:DP:7:ARG:N	47:DP:7:ARG:CD	2.73	0.46
47:DP:29:LYS:HB3	47:DP:34:GLY:CA	2.45	0.46
51:DT:88:ILE:HG22	51:DT:89:VAL:N	2.30	0.46
53:DV:34:GLU:O	53:DV:36:PRO:CD	2.64	0.46
53:DV:45:THR:C	53:DV:46:VAL:HG12	2.41	0.46
54:DW:1:MET:HG3	54:DW:64:MET:CE	2.42	0.46
55:DX:57:LEU:HD22	55:DX:57:LEU:O	2.16	0.46
1:AA:405:U:H5''	1:AA:406:G:O4'	2.16	0.46
1:AA:473:G:O2'	1:AA:474:G:H5'	2.15	0.46
1:AA:537:G:H5''	12:AL:110:ARG:NH1	2.31	0.46
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.50	0.46
1:AA:1296:C:H3'	1:AA:1297:C:C6	2.51	0.46
2:AB:9:GLU:OE2	2:AB:10:LEU:N	2.49	0.46
4:AD:9:CYS:HB3	4:AD:32:ALA:HB3	1.98	0.46
4:AD:114:ARG:NH1	4:AD:114:ARG:CG	2.76	0.46
4:AD:157:LEU:HD12	4:AD:157:LEU:H	1.81	0.46
6:AF:69:GLU:O	6:AF:70:ASP:C	2.58	0.46
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.15	0.46
8:AH:5:PRO:HG2	8:AH:6:ILE:CD1	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:16:ARG:HG2	9:AI:16:ARG:NH1	2.31	0.46
9:AI:16:ARG:NE	9:AI:64:THR:HB	2.30	0.46
9:AI:43:ALA:O	9:AI:45:ALA:N	2.48	0.46
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.29	0.46
19:AS:13:ASP:C	19:AS:15:LEU:N	2.71	0.46
22:AV:62:C:H2'	22:AV:63:G:C8	2.51	0.46
25:B0:72:ARG:O	25:B0:73:GLY:C	2.59	0.46
35:BA:491:G:H2'	35:BA:492:A:H8	1.80	0.46
35:BA:605:C:O2'	35:BA:606:U:H5'	2.16	0.46
35:BA:1355:G:O2'	35:BA:1356:G:H5'	2.16	0.46
35:BA:1494:A:H1'	35:BA:1496:A:C2	2.51	0.46
35:BA:2063:C:O2	35:BA:2450:A:N1	2.49	0.46
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.29	0.46
35:BA:2654:A:H62	35:BA:2667:C:N4	2.14	0.46
35:BA:2705:A:H2'	35:BA:2706:G:O4'	2.15	0.46
35:BA:2723:C:H5''	49:BR:2:ARG:HD2	1.97	0.46
35:BA:2870:C:H2'	35:BA:2871:C:O4'	2.16	0.46
39:BE:103:ASP:OD2	39:BE:202:LYS:HD2	2.15	0.46
40:BF:37:VAL:CG1	40:BF:184:TYR:HD1	2.27	0.46
41:BG:95:ARG:HH11	41:BG:95:ARG:HG2	1.80	0.46
43:BI:76:THR:HG22	43:BI:141:LYS:HE2	1.98	0.46
49:BR:116:LEU:O	49:BR:117:VAL:C	2.58	0.46
51:BT:27:THR:C	51:BT:28:VAL:HG23	2.41	0.46
51:BT:85:LYS:NZ	51:BT:85:LYS:CA	2.79	0.46
51:BT:100:TYR:HD2	51:BT:103:ARG:NH2	2.06	0.46
52:BU:79:PHE:O	52:BU:83:LEU:CD1	2.63	0.46
53:BV:40:LEU:C	53:BV:45:THR:HB	2.40	0.46
56:BY:7:VAL:CG2	56:BY:8:LYS:HZ2	2.29	0.46
56:BY:30:VAL:HG12	56:BY:31:LEU:N	2.31	0.46
56:BY:40:GLU:HA	56:BY:40:GLU:OE2	2.15	0.46
57:BZ:52:SER:OG	57:BZ:53:ILE:N	2.49	0.46
1:CA:6:G:C8	5:CE:119:LEU:HD11	2.51	0.46
1:CA:114:U:H2'	1:CA:115:G:C8	2.51	0.46
1:CA:336:C:O2'	1:CA:337:C:H5'	2.15	0.46
1:CA:1152:A:C5'	10:CJ:70:ARG:HH22	2.16	0.46
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.51	0.46
1:CA:1321:C:H5''	1:CA:1322:C:H2'	1.97	0.46
1:CA:1346:A:H5'	9:CI:120:ARG:HH12	1.80	0.46
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.16	0.46
1:CA:1470:G:O2'	1:CA:1471:G:H5'	2.16	0.46
2:CB:120:ALA:C	2:CB:121:LEU:HD12	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:237:ALA:O	2:CB:238:LEU:HB3	2.15	0.46
4:CD:185:PHE:O	4:CD:186:LEU:C	2.58	0.46
6:CF:69:GLU:O	6:CF:72:VAL:N	2.45	0.46
7:CG:150:ALA:C	7:CG:152:ALA:H	2.24	0.46
9:CI:79:LEU:HA	9:CI:101:PHE:O	2.15	0.46
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.80	0.46
13:CM:9:ILE:HG22	13:CM:9:ILE:O	2.16	0.46
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.16	0.46
22:CW:17(A):U:H2'	22:CW:18:G:C5'	2.38	0.46
22:CW:28:C:O2'	22:CW:42:G:N1	2.42	0.46
58:CX:16:A:N3	58:CX:16:A:H2'	2.30	0.46
31:D6:15:GLU:O	31:D6:18:ARG:CZ	2.64	0.46
32:D7:47:ARG:HB2	32:D7:48:LYS:HZ3	1.77	0.46
35:DA:154(A):C:N4	35:DA:171:G:H1	2.13	0.46
35:DA:272(J):C:H5	35:DA:274:G:C6	2.34	0.46
35:DA:628:G:H2'	35:DA:629:G:H8	1.81	0.46
35:DA:676:A:H2	35:DA:802:A:N6	2.05	0.46
35:DA:899:A:H2'	35:DA:899:A:N3	2.30	0.46
35:DA:941:A:H2'	35:DA:942:G:C8	2.51	0.46
35:DA:1190:G:H5'	47:DP:35:HIS:H	1.81	0.46
35:DA:1239:G:H2'	35:DA:1240:U:O4'	2.15	0.46
35:DA:1360:A:H5'	35:DA:1361:G:OP2	2.16	0.46
35:DA:1637:A:H2'	35:DA:1638:C:C6	2.52	0.46
35:DA:2158:A:C4'	35:DA:2159:G:H5'	2.46	0.46
35:DA:2285:C:C2'	35:DA:2286:A:H5'	2.45	0.46
35:DA:2305:A:H3'	35:DA:2306:C:C5'	2.35	0.46
35:DA:2468:G:H22	35:DA:2481:G:C2'	2.23	0.46
35:DA:2472:G:H5'	35:DA:2473:U:H5'	1.89	0.46
35:DA:2474:C:H5'	35:DA:2475:C:C5	2.51	0.46
38:DD:43:ARG:HD2	38:DD:44:ASN:CG	2.41	0.46
38:DD:71:ASP:OD2	38:DD:103:ARG:NH2	2.49	0.46
38:DD:115:GLN:HG2	38:DD:116:GLN:N	2.31	0.46
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.81	0.46
39:DE:170:LEU:N	39:DE:170:LEU:HD22	2.31	0.46
40:DF:162:LEU:H	40:DF:162:LEU:CD2	2.29	0.46
41:DG:21:ARG:HD3	41:DG:21:ARG:C	2.41	0.46
41:DG:39:ILE:HA	41:DG:156:ASP:O	2.16	0.46
45:DN:68:GLU:O	45:DN:69:GLN:CG	2.63	0.46
47:DP:88:LEU:O	47:DP:90:ARG:N	2.49	0.46
50:DS:93:LYS:O	50:DS:94:TYR:C	2.58	0.46
53:DV:18:LEU:HD13	53:DV:19:LYS:H	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DW:110:LYS:O	54:DW:112:GLY:N	2.49	0.46
57:DZ:172:ALA:O	57:DZ:173:ALA:HB2	2.16	0.46
1:AA:129(A):G:C2	1:AA:189(F):U:H5''	2.51	0.45
1:AA:623:C:C4	1:AA:624:C:C5	3.04	0.45
1:AA:1442(B):A:C6	51:BT:118:ARG:NH2	2.84	0.45
2:AB:196:LEU:HD12	2:AB:196:LEU:C	2.41	0.45
3:AC:35:GLU:HA	3:AC:38:ARG:CD	2.45	0.45
5:AE:57:LYS:O	5:AE:61:TYR:CD2	2.69	0.45
6:AF:30:LEU:HD23	6:AF:30:LEU:N	2.31	0.45
8:AH:29:SER:O	8:AH:32:LYS:N	2.49	0.45
9:AI:16:ARG:HH21	9:AI:64:THR:CB	2.29	0.45
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.45	0.45
18:AR:47:THR:C	18:AR:83:GLU:OE1	2.59	0.45
20:AT:30:LYS:HE2	20:AT:30:LYS:CA	2.46	0.45
25:B0:26:TYR:H	25:B0:29:GLN:NE2	2.14	0.45
35:BA:154(A):C:O2	35:BA:154(A):C:O4'	2.30	0.45
35:BA:196:A:N3	35:BA:196:A:H2'	2.30	0.45
35:BA:365:C:H2'	35:BA:366:C:O4'	2.16	0.45
35:BA:606:U:H4'	35:BA:658:C:H4'	1.98	0.45
35:BA:878:A:H2'	35:BA:879:G:O4'	2.16	0.45
35:BA:1187:G:H5''	53:BV:81:TYR:HE2	1.74	0.45
35:BA:1884:A:C6	35:BA:1885:A:N7	2.84	0.45
35:BA:1894:C:O2'	35:BA:1895:C:H5'	2.16	0.45
35:BA:2068:U:C2	35:BA:2430:A:H2	2.31	0.45
35:BA:2468:G:H22	35:BA:2481:G:C2'	2.25	0.45
35:BA:2593:U:C2	35:BA:2594:C:C5	3.04	0.45
37:BC:85:GLU:HB3	37:BC:151:GLU:CB	2.46	0.45
38:BD:142:VAL:HA	38:BD:194:GLY:H	1.80	0.45
39:BE:68:ALA:O	39:BE:70:ALA:N	2.47	0.45
39:BE:178:GLU:N	39:BE:178:GLU:CD	2.73	0.45
42:BH:109:PHE:C	42:BH:111:HIS:N	2.66	0.45
43:BI:114:LEU:O	43:BI:116:LEU:N	2.47	0.45
44:BJ:77:UNK:C	44:BJ:79:UNK:N	2.79	0.45
45:BN:69:GLN:HE21	45:BN:69:GLN:HB3	1.50	0.45
45:BN:71:ILE:HG21	45:BN:84:LYS:HB3	1.97	0.45
47:BP:126:VAL:HG13	47:BP:145:PRO:HG2	1.98	0.45
48:BQ:64:ILE:N	57:BZ:178:GLU:OE2	2.40	0.45
51:BT:8:LYS:C	51:BT:11:GLU:HB2	2.41	0.45
53:BV:18:LEU:HD22	53:BV:19:LYS:H	1.80	0.45
53:BV:95:LEU:C	53:BV:95:LEU:CD2	2.89	0.45
57:BZ:109:ALA:C	57:BZ:113:ALA:HB3	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:38:G:N2	1:CA:397:A:P	2.85	0.45
1:CA:105:G:H2'	1:CA:106:C:H6	1.80	0.45
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.50	0.45
1:CA:490:G:H2'	1:CA:491:G:H8	1.80	0.45
1:CA:758:G:C5'	1:CA:880:C:H1'	2.46	0.45
1:CA:841:U:H5'	1:CA:848:C:C6	2.51	0.45
1:CA:995:C:H2'	1:CA:996:A:H8	1.80	0.45
1:CA:1184:G:O2'	1:CA:1185:G:H5'	2.17	0.45
1:CA:1262:C:N4	1:CA:1273:G:H1	2.11	0.45
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.51	0.45
2:CB:20:GLU:O	2:CB:39:ILE:HG23	2.16	0.45
5:CE:111:GLU:C	5:CE:113:ALA:H	2.23	0.45
9:CI:43:ALA:O	9:CI:45:ALA:N	2.49	0.45
9:CI:82:ALA:O	9:CI:86:VAL:HG12	2.16	0.45
12:CL:51:LYS:HB3	12:CL:67:ILE:CD1	2.45	0.45
12:CL:79:VAL:HB	12:CL:103:ASP:OD2	2.16	0.45
15:CO:65:ARG:O	15:CO:68:ARG:N	2.49	0.45
18:CR:88:LYS:HD3	18:CR:88:LYS:OXT	2.15	0.45
26:D1:25:LYS:HG3	26:D1:31:GLY:HA2	1.98	0.45
27:D2:47:ASN:OD1	27:D2:47:ASN:N	2.49	0.45
31:D6:15:GLU:OE1	31:D6:18:ARG:CD	2.64	0.45
35:DA:94:C:O2	35:DA:94:C:H2'	2.15	0.45
35:DA:530:G:C5	35:DA:2022:U:H5''	2.50	0.45
35:DA:1015:G:O2'	35:DA:1016:G:H5'	2.15	0.45
35:DA:2035:G:H4'	35:DA:2036:C:OP2	2.15	0.45
35:DA:2166:G:C2'	35:DA:2167:U:H5'	2.47	0.45
36:DB:42:C:H2'	36:DB:43:C:C6	2.51	0.45
37:DC:46:LYS:HB2	37:DC:46:LYS:HZ3	1.79	0.45
39:DE:116:VAL:HG21	39:DE:122:PHE:CE2	2.51	0.45
40:DF:24:LEU:HD12	40:DF:25:PRO:HD3	1.98	0.45
41:DG:91:ARG:HH11	41:DG:91:ARG:HG2	1.80	0.45
43:DI:79:ILE:HG22	43:DI:81:VAL:H	1.80	0.45
43:DI:126:TYR:O	43:DI:140:LEU:O	2.33	0.45
46:DO:107:ARG:CZ	51:DT:35:LYS:HB2	2.46	0.45
46:DO:112:MET:O	46:DO:113:LYS:C	2.58	0.45
47:DP:96:THR:HG22	47:DP:126:VAL:CG2	2.45	0.45
48:DQ:29:PHE:HB2	48:DQ:105:GLU:OE2	2.16	0.45
50:DS:87:PHE:CE2	50:DS:92:TYR:HD2	2.32	0.45
51:DT:16:ARG:HH22	51:DT:82:LEU:H	1.64	0.45
55:DX:34:ALA:HA	55:DX:38:GLU:OE1	2.16	0.45
57:DZ:76:LEU:HD22	57:DZ:81:ARG:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:121:HIS:C	57:DZ:123:ASP:N	2.73	0.45
1:AA:139:G:O2'	1:AA:140:A:H5'	2.16	0.45
1:AA:932:C:H5''	7:AG:3:ARG:HB3	1.99	0.45
1:AA:1025:U:O2'	1:AA:1026:G:H8	1.98	0.45
1:AA:1060:C:H4'	10:AJ:52:GLY:CA	2.43	0.45
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.78	0.45
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.50	0.45
2:AB:173:ALA:C	2:AB:175:ARG:N	2.73	0.45
2:AB:214:ILE:C	2:AB:218:ALA:HB2	2.42	0.45
4:AD:8:VAL:C	4:AD:10:ARG:H	2.24	0.45
5:AE:148:VAL:CG2	8:AH:107:LEU:HD13	2.45	0.45
9:AI:84:ALA:O	9:AI:87:GLN:HB3	2.17	0.45
9:AI:93:ARG:C	9:AI:95:LYS:H	2.24	0.45
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.35	0.45
10:AJ:80:LYS:C	10:AJ:84:GLN:HE21	2.24	0.45
11:AK:34:ASP:OD2	11:AK:38:ASN:HB2	2.15	0.45
12:AL:41:THR:CG2	24:AY:7:HIS:CA	2.88	0.45
12:AL:123:LYS:CE	12:AL:125:ALA:HB2	2.39	0.45
26:B1:21:ARG:HH12	35:BA:2079:U:H5''	1.81	0.45
29:B4:36:CYS:SG	29:B4:37:SER:N	2.89	0.45
30:B5:6:VAL:HG13	35:BA:2016:U:H1'	1.98	0.45
35:BA:195:A:C8	35:BA:197:A:OP1	2.69	0.45
35:BA:363(B):G:C2	35:BA:363(C):G:C8	3.04	0.45
35:BA:882:G:H2'	35:BA:883:G:C8	2.51	0.45
35:BA:1488:G:H2'	35:BA:1488:G:N3	2.32	0.45
35:BA:1528(A):A:N6	35:BA:1529:G:C8	2.84	0.45
39:BE:116:VAL:HG21	39:BE:122:PHE:CE2	2.51	0.45
40:BF:132:VAL:HG22	40:BF:133:ASN:ND2	2.31	0.45
41:BG:11:TYR:OH	41:BG:33:ARG:HB3	2.16	0.45
42:BH:156:ALA:O	42:BH:158:HIS:N	2.49	0.45
43:BI:72:LEU:HD13	43:BI:101:LEU:O	2.16	0.45
45:BN:89:LYS:HB3	45:BN:89:LYS:NZ	2.30	0.45
47:BP:40:SER:C	47:BP:41:ARG:NH2	2.73	0.45
47:BP:59:LEU:CA	47:BP:61:ARG:NH2	2.77	0.45
48:BQ:116:GLU:HA	48:BQ:116:GLU:OE1	2.16	0.45
49:BR:10:LEU:HD13	49:BR:17:ARG:NH1	2.31	0.45
53:BV:38:LEU:HD23	53:BV:38:LEU:C	2.40	0.45
56:BY:4:LYS:NZ	56:BY:5:MET:HG2	2.30	0.45
56:BY:28:LYS:CB	56:BY:37:VAL:HB	2.45	0.45
1:CA:11:G:H2'	1:CA:12:U:O5'	2.15	0.45
1:CA:37:U:C2	1:CA:38:G:N9	2.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:392:G:H2'	1:CA:393:A:C8	2.45	0.45
1:CA:400:C:H2'	1:CA:401:C:O4'	2.17	0.45
1:CA:581:G:O2'	1:CA:582:U:H6	1.99	0.45
1:CA:658:G:C2'	1:CA:659:U:H5'	2.46	0.45
1:CA:866:C:H5'	1:CA:919:A:C5'	2.46	0.45
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.80	0.45
1:CA:1078:U:H2'	1:CA:1079:G:O4'	2.16	0.45
1:CA:1398:A:H5'	1:CA:1401:G:H4'	1.98	0.45
2:CB:87:ARG:O	2:CB:223:ILE:HD11	2.17	0.45
2:CB:152:PHE:O	2:CB:153:ARG:HB2	2.15	0.45
2:CB:175:ARG:HA	2:CB:178:ARG:HB2	1.97	0.45
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.16	0.45
3:CC:150:LYS:HG3	3:CC:169:ALA:CB	2.43	0.45
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.98	0.45
13:CM:19:LEU:C	13:CM:21:TYR:N	2.73	0.45
13:CM:91:ARG:C	13:CM:98:VAL:HG22	2.41	0.45
19:CS:41:VAL:HG22	19:CS:42:PRO:CD	2.44	0.45
21:CU:2:GLY:C	21:CU:4:GLY:N	2.68	0.45
25:D0:11:ARG:NH1	25:D0:11:ARG:CB	2.74	0.45
27:D2:64:LEU:CD2	27:D2:68:ARG:NH1	2.79	0.45
29:D4:13:ARG:NH1	29:D4:23:GLU:OE2	2.49	0.45
29:D4:45:GLY:O	29:D4:46:GLN:HB3	2.16	0.45
35:DA:154:G:H1	35:DA:172:C:H42	1.64	0.45
35:DA:287:C:H2'	35:DA:288:C:H6	1.78	0.45
35:DA:614:U:O2	35:DA:614:U:O4'	2.35	0.45
35:DA:660:G:H5'	40:DF:99:TYR:CD2	2.52	0.45
35:DA:711:G:O2'	35:DA:712:G:H5'	2.15	0.45
35:DA:814:C:C5	47:DP:27:HIS:CE1	3.05	0.45
35:DA:873:G:H1	35:DA:904:C:N4	2.13	0.45
35:DA:1577:C:H2'	35:DA:1578:U:C1'	2.46	0.45
35:DA:1825:A:OP1	38:DD:249:PRO:HD3	2.15	0.45
35:DA:2092:U:C5	35:DA:2226:C:OP2	2.70	0.45
35:DA:2667:C:H2'	35:DA:2668:G:O4'	2.17	0.45
42:DH:157:TYR:CE1	42:DH:171:LEU:N	2.84	0.45
46:DO:31:LYS:C	46:DO:32:TYR:CD1	2.95	0.45
47:DP:143:GLY:O	47:DP:144:GLU:HB3	2.17	0.45
50:DS:17:ARG:O	50:DS:20:ARG:HB2	2.15	0.45
52:DU:26:GLY:O	52:DU:30:LYS:HG2	2.17	0.45
56:DY:31:LEU:CB	56:DY:32:PRO:CA	2.94	0.45
57:DZ:48:PHE:CE2	57:DZ:71:VAL:HG21	2.52	0.45
1:AA:5:U:H3'	1:AA:6:G:N2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.99	0.45
2:AB:178:ARG:CG	2:AB:178:ARG:NH1	2.75	0.45
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.16	0.45
3:AC:78:GLY:O	3:AC:79:ARG:HB3	2.17	0.45
3:AC:119:ARG:HH11	3:AC:119:ARG:HG3	1.81	0.45
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.16	0.45
10:AJ:43:ARG:HG3	10:AJ:43:ARG:HH11	1.81	0.45
12:AL:79:VAL:HB	12:AL:103:ASP:OD2	2.17	0.45
12:AL:98:VAL:O	12:AL:101:VAL:HG23	2.17	0.45
13:AM:38:GLY:C	13:AM:39:ILE:HD12	2.41	0.45
18:AR:24:ALA:C	18:AR:26:LEU:H	2.24	0.45
22:AW:2:G:H2'	22:AW:3:C:C6	2.51	0.45
24:AY:25:LYS:O	24:AY:44:THR:O	2.34	0.45
33:B8:21:LYS:HD3	33:B8:48:PHE:CZ	2.52	0.45
33:B8:33:ASN:HA	33:B8:36:LYS:CG	2.46	0.45
35:BA:181:A:H2'	35:BA:182:A:C8	2.51	0.45
35:BA:271(H):G:O2'	35:BA:271(I):G:P	2.74	0.45
35:BA:781:A:H2	35:BA:1776:G:N3	2.14	0.45
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.97	0.45
35:BA:1459:G:H5''	35:BA:1460:A:OP1	2.16	0.45
35:BA:1531:C:H3'	35:BA:1531:C:C6	2.48	0.45
35:BA:2580:U:H4'	39:BE:130:GLY:HA2	1.96	0.45
35:BA:2702:U:H4'	35:BA:2703:C:OP1	2.17	0.45
35:BA:2819:G:H2'	35:BA:2821:A:N7	2.30	0.45
38:BD:115:GLN:HG2	38:BD:116:GLN:N	2.31	0.45
38:BD:166:GLN:HE21	38:BD:166:GLN:HA	1.79	0.45
40:BF:34:TRP:CD1	47:BP:11:GLY:HA2	2.51	0.45
40:BF:89:VAL:O	40:BF:90:PHE:C	2.57	0.45
41:BG:83:ARG:O	41:BG:84:LYS:HD2	2.17	0.45
42:BH:7:LEU:O	42:BH:69:ARG:HD2	2.15	0.45
42:BH:91:GLY:HA3	42:BH:160:LYS:HA	1.98	0.45
42:BH:157:TYR:CE1	42:BH:171:LEU:N	2.84	0.45
43:BI:10:GLU:CD	43:BI:11:ASN:N	2.74	0.45
46:BO:7:TYR:CE1	46:BO:20:MET:HB2	2.51	0.45
46:BO:104:ARG:NH1	46:BO:104:ARG:CB	2.79	0.45
47:BP:7:ARG:H	47:BP:7:ARG:CD	2.21	0.45
48:BQ:31:ASP:O	48:BQ:133:ARG:O	2.35	0.45
48:BQ:41:TRP:HB3	48:BQ:94:VAL:HG11	1.98	0.45
49:BR:60:LEU:O	49:BR:61:HIS:C	2.58	0.45
51:BT:54:ARG:HG2	51:BT:54:ARG:NH1	2.31	0.45
51:BT:61:PHE:CE1	51:BT:76:PHE:HD1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:90:VAL:CG2	53:BV:39:LEU:HG	2.46	0.45
52:BU:103:PRO:HD2	52:BU:104:GLN:NE2	2.31	0.45
54:BW:14:PRO:HB3	54:BW:101:SER:HB3	1.97	0.45
55:BX:8:ILE:N	55:BX:8:ILE:HD12	2.31	0.45
55:BX:47:PHE:HD2	55:BX:89:ILE:HG23	1.82	0.45
57:BZ:166:SER:CB	57:BZ:168:GLU:N	2.77	0.45
1:CA:9:G:H5'	5:CE:122:GLU:CD	2.41	0.45
1:CA:272:C:H2'	1:CA:273:A:C8	2.48	0.45
1:CA:381:C:H2'	1:CA:382:A:O4'	2.17	0.45
1:CA:1005:A:H62	1:CA:1024:G:H4'	1.80	0.45
1:CA:1168:A:H2'	1:CA:1169:A:O4'	2.16	0.45
1:CA:1300:G:O2'	1:CA:1301:U:P	2.74	0.45
1:CA:1300:G:H4'	1:CA:1301:U:O5'	2.16	0.45
1:CA:1316:G:H2'	1:CA:1317:C:H5''	1.99	0.45
1:CA:1349:A:OP1	9:CI:120:ARG:HB2	2.17	0.45
1:CA:1531:A:H8	1:CA:1531:A:OP2	2.00	0.45
2:CB:69:LEU:HD12	2:CB:92:TYR:HA	1.99	0.45
2:CB:144:ARG:HB2	2:CB:148:TYR:CE2	2.51	0.45
3:CC:42:LEU:HA	3:CC:45:LYS:HE3	1.98	0.45
3:CC:155:GLY:HA3	3:CC:164:ARG:O	2.17	0.45
4:CD:14:ARG:H	4:CD:40:PRO:HD3	1.80	0.45
5:CE:56:GLN:O	5:CE:57:LYS:C	2.58	0.45
6:CF:69:GLU:O	6:CF:70:ASP:C	2.59	0.45
13:CM:23:TYR:HE1	13:CM:71:ARG:N	2.13	0.45
18:CR:81:PHE:O	18:CR:82:THR:CB	2.64	0.45
19:CS:72:GLY:C	19:CS:74:PHE:N	2.74	0.45
24:CY:13:PRO:O	24:CY:13:PRO:HD2	2.17	0.45
35:DA:271(K):U:H5'	35:DA:271(L):U:C5	2.51	0.45
35:DA:310:A:OP1	56:DY:17:SER:O	2.34	0.45
35:DA:674:G:H1'	40:DF:74:ARG:CD	2.46	0.45
35:DA:836:G:C5	35:DA:837:C:C4	3.05	0.45
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.46	0.45
35:DA:1913:A:OP1	35:DA:1914:C:OP1	2.35	0.45
35:DA:2030:A:H5''	35:DA:2031:A:OP1	2.16	0.45
35:DA:2123:G:H2'	35:DA:2124:G:C8	2.51	0.45
35:DA:2346:A:H5'	35:DA:2383:G:C1'	2.47	0.45
35:DA:2474:C:C4	35:DA:2475:C:O2	2.69	0.45
35:DA:2543:G:H8	35:DA:2543:G:H5'	1.80	0.45
35:DA:2724:C:P	49:DR:2:ARG:NH2	2.90	0.45
36:DB:104:U:O2'	36:DB:105:A:H5'	2.16	0.45
38:DD:70:TRP:HZ3	38:DD:146:GLU:OE2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:70:TRP:CZ3	38:DD:150:LYS:HA	2.50	0.45
38:DD:213:ARG:O	38:DD:216:GLY:N	2.49	0.45
40:DF:46:ARG:HG3	40:DF:46:ARG:HH11	1.82	0.45
41:DG:45:GLU:O	41:DG:46:ALA:HB3	2.15	0.45
41:DG:138:GLN:HE22	41:DG:153:ARG:NE	2.13	0.45
43:DI:114:LEU:C	43:DI:116:LEU:N	2.74	0.45
45:DN:32:THR:CG2	45:DN:37:LYS:HB2	2.41	0.45
45:DN:45:ASN:HD22	45:DN:45:ASN:N	2.09	0.45
46:DO:64:ARG:CZ	51:DT:70:VAL:HG21	2.46	0.45
47:DP:32:THR:HG21	47:DP:37:GLY:HA2	1.99	0.45
51:DT:29:ARG:HG2	51:DT:86:ILE:H	1.77	0.45
56:DY:96:ILE:HG22	56:DY:97:ARG:HG3	1.99	0.45
57:DZ:6:LYS:H	57:DZ:6:LYS:NZ	2.13	0.45
1:AA:163:C:H2'	1:AA:164:U:H6	1.82	0.45
1:AA:185:A:O2'	1:AA:186:C:H5'	2.16	0.45
1:AA:227:G:O2'	1:AA:228:A:H5'	2.17	0.45
1:AA:294:U:H2'	1:AA:295:C:C6	2.52	0.45
1:AA:321:A:O2'	1:AA:322:C:H5'	2.16	0.45
1:AA:650:G:O2'	1:AA:651:C:H5'	2.16	0.45
1:AA:1261:A:N6	1:AA:1274:G:H1'	2.32	0.45
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.51	0.45
2:AB:12:GLU:HA	2:AB:16:HIS:ND1	2.31	0.45
2:AB:12:GLU:HB2	2:AB:16:HIS:HB2	1.97	0.45
2:AB:21:ARG:C	2:AB:23:ARG:H	2.25	0.45
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.17	0.45
2:AB:84:GLU:CD	2:AB:216:SER:HA	2.41	0.45
3:AC:6:HIS:NE2	3:AC:8:ILE:HG12	2.31	0.45
3:AC:187:ALA:HB3	3:AC:198:VAL:CB	2.43	0.45
6:AF:4:TYR:HD1	6:AF:92:LYS:HA	1.81	0.45
7:AG:150:ALA:C	7:AG:152:ALA:H	2.24	0.45
9:AI:16:ARG:N	9:AI:16:ARG:HD3	2.31	0.45
16:AP:49:LEU:HD13	16:AP:73:LEU:HD23	1.98	0.45
18:AR:26:LEU:HB2	18:AR:29:PHE:HE2	1.82	0.45
19:AS:43:GLU:HB3	19:AS:44:MET:CE	2.46	0.45
28:B3:3:ARG:N	28:B3:60:GLU:N	2.64	0.45
31:B6:15:GLU:O	31:B6:18:ARG:CZ	2.64	0.45
33:B8:4:MET:HE2	35:BA:593:G:C4'	2.47	0.45
35:BA:270:A:N1	35:BA:366:C:O2'	2.47	0.45
35:BA:711:G:O2'	35:BA:712:G:H5'	2.16	0.45
35:BA:836:G:H2'	35:BA:837:C:C6	2.51	0.45
35:BA:887:A:H1'	35:BA:889:C:C4	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1608:A:H1'	35:BA:1610:A:OP2	2.17	0.45
35:BA:1835:G:H2'	35:BA:1836:C:H6	1.80	0.45
35:BA:1982:C:H5'	35:BA:1983:C:OP2	2.17	0.45
35:BA:2166:G:C2'	35:BA:2167:U:H5'	2.45	0.45
35:BA:2513:G:H2'	35:BA:2514:U:C6	2.52	0.45
35:BA:2523:G:H2'	35:BA:2524:G:C5'	2.28	0.45
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.52	0.45
38:BD:70:TRP:C	38:BD:72:LYS:H	2.24	0.45
40:BF:178:PRO:HB2	40:BF:201:VAL:HG11	1.98	0.45
43:BI:77:LEU:HB3	43:BI:140:LEU:HA	1.98	0.45
45:BN:54:VAL:HB	45:BN:122:VAL:HG22	1.99	0.45
45:BN:57:ALA:C	45:BN:58:ASP:O	2.59	0.45
46:BO:105:GLU:O	46:BO:109:LYS:HB2	2.17	0.45
48:BQ:50:ALA:O	48:BQ:51:ARG:C	2.58	0.45
49:BR:16:HIS:O	49:BR:17:ARG:C	2.60	0.45
51:BT:27:THR:HB	51:BT:87:ASP:HB3	1.98	0.45
51:BT:41:ARG:HD2	51:BT:41:ARG:C	2.42	0.45
51:BT:117:ASP:O	51:BT:118:ARG:C	2.59	0.45
53:BV:19:LYS:HD3	53:BV:22:VAL:CG1	2.47	0.45
1:CA:626:U:H4'	16:CP:38:TYR:CZ	2.52	0.45
1:CA:640:A:O2'	1:CA:641:U:H5'	2.16	0.45
1:CA:735:C:C2	1:CA:736:C:C5	3.04	0.45
1:CA:932:C:H5''	7:CG:3:ARG:HB3	1.98	0.45
1:CA:1397:C:H5'	1:CA:1398:A:C8	2.51	0.45
1:CA:1440:C:N4	1:CA:1441:G:C2	2.85	0.45
2:CB:42:ILE:O	2:CB:42:ILE:HG23	2.17	0.45
2:CB:74:LYS:HG2	2:CB:165:VAL:HG21	1.98	0.45
3:CC:134:ILE:CG2	3:CC:151:VAL:HB	2.46	0.45
5:CE:50:GLU:CB	5:CE:53:LEU:HD12	2.44	0.45
8:CH:64:LYS:CG	8:CH:79:VAL:HG21	2.42	0.45
8:CH:104:ARG:O	8:CH:105:ARG:HB3	2.16	0.45
12:CL:4:ILE:HD11	17:CQ:32:TYR:O	2.17	0.45
17:CQ:10:VAL:HG13	17:CQ:19:VAL:HB	1.98	0.45
19:CS:13:ASP:C	19:CS:15:LEU:N	2.72	0.45
25:D0:66:VAL:CG1	25:D0:67:VAL:H	2.30	0.45
30:D5:11:THR:HG23	35:DA:1264:G:H5'	1.98	0.45
31:D6:43:CYS:O	31:D6:43:CYS:SG	2.74	0.45
33:D8:30:ARG:O	33:D8:31:HIS:ND1	2.48	0.45
35:DA:679:C:O2'	35:DA:680:G:H5'	2.17	0.45
35:DA:914:C:C2'	35:DA:915:C:H5'	2.44	0.45
35:DA:1115:G:H8	35:DA:1115:G:H5'	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1150:C:O2'	35:DA:1151:G:H5'	2.16	0.45
35:DA:1374:G:H2'	35:DA:1375:C:H6	1.80	0.45
35:DA:2179:C:H4'	35:DA:2179:C:OP1	2.15	0.45
35:DA:2346:A:H5'	35:DA:2383:G:H1'	1.99	0.45
35:DA:2593:U:C2	35:DA:2594:C:C5	3.04	0.45
35:DA:2643:G:O2'	35:DA:2644:G:H5'	2.17	0.45
36:DB:28:C:H2'	36:DB:29:A:H8	1.75	0.45
38:DD:13:ARG:HD2	38:DD:16:MET:SD	2.57	0.45
40:DF:2:LYS:HG3	40:DF:25:PRO:HG3	1.99	0.45
40:DF:183:VAL:O	40:DF:184:TYR:C	2.58	0.45
41:DG:4:ASP:CB	41:DG:8:LYS:HD3	2.47	0.45
41:DG:55:LYS:O	41:DG:59:GLU:HB3	2.17	0.45
41:DG:75:LYS:HG2	41:DG:76:SER:N	2.27	0.45
41:DG:135:LEU:HD12	41:DG:135:LEU:N	2.32	0.45
41:DG:139:LEU:C	41:DG:141:PHE:H	2.24	0.45
41:DG:152:LEU:HD12	41:DG:152:LEU:N	2.31	0.45
42:DH:13:LYS:HG2	42:DH:14:GLY:N	2.20	0.45
42:DH:91:GLY:HA3	42:DH:160:LYS:HA	1.97	0.45
43:DI:93:THR:O	43:DI:94:ALA:C	2.59	0.45
46:DO:93:PRO:C	46:DO:95:GLY:H	2.25	0.45
47:DP:56:SER:O	47:DP:57:THR:CG2	2.65	0.45
47:DP:95:VAL:CG1	47:DP:125:VAL:HG23	2.46	0.45
47:DP:112:LEU:C	47:DP:112:LEU:CD2	2.89	0.45
48:DQ:39:PRO:HB3	48:DQ:99:PRO:HD3	1.97	0.45
48:DQ:133:ARG:CG	48:DQ:134:ARG:N	2.71	0.45
53:DV:20:LEU:N	53:DV:20:LEU:HD12	2.31	0.45
55:DX:72:LYS:HD3	55:DX:73:ARG:O	2.17	0.45
1:AA:156:G:O2'	1:AA:157:G:H5'	2.17	0.45
1:AA:187:C:N3	20:AT:105:SER:HB3	2.31	0.45
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.35	0.45
1:AA:323:U:H2'	1:AA:324:G:O4'	2.15	0.45
1:AA:530:G:C2'	24:AY:29:PRO:HG3	2.47	0.45
1:AA:841:U:H5'	1:AA:848:C:C6	2.51	0.45
1:AA:935:A:H2'	1:AA:936:C:H6	1.80	0.45
1:AA:1316:G:H2'	1:AA:1317:C:H5''	1.97	0.45
2:AB:24:TRP:CG	2:AB:25:ASN:N	2.83	0.45
5:AE:143:ARG:NH1	8:AH:77:GLU:OE1	2.50	0.45
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.51	0.45
6:AF:62:TRP:C	6:AF:63:TYR:HD2	2.25	0.45
7:AG:106:GLN:O	7:AG:110:GLN:HG3	2.16	0.45
13:AM:69:GLU:OE2	13:AM:73:GLU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:18:PHE:CE1	15:AO:21:ASP:HB2	2.51	0.45
17:AQ:43:LEU:HD12	17:AQ:68:ARG:HB3	1.97	0.45
22:AV:54:U:O3'	22:AV:55:U:H4'	2.17	0.45
23:AX:12:A:O4'	23:AX:12:A:OP2	2.34	0.45
26:B1:15:ALA:HA	35:BA:380:U:O2'	2.16	0.45
27:B2:71:ASN:HD22	27:B2:71:ASN:N	2.14	0.45
28:B3:40:THR:CG2	28:B3:43:ILE:HD13	2.47	0.45
28:B3:40:THR:HG23	28:B3:43:ILE:HD13	1.99	0.45
34:B9:31:LYS:HD3	35:BA:2528:U:C5'	2.46	0.45
35:BA:495:G:O2'	54:BW:62:HIS:HE1	2.00	0.45
35:BA:954:G:O2'	35:BA:955:C:H5'	2.16	0.45
35:BA:1053:C:H1'	44:BJ:33:UNK:CA	2.45	0.45
35:BA:1142:U:H5''	35:BA:1142(A):A:H8	1.82	0.45
35:BA:1562:A:C2	35:BA:1563:G:C4	3.05	0.45
35:BA:1847:A:H3'	35:BA:1848:A:C5'	2.47	0.45
35:BA:2014:A:H2'	35:BA:2015:A:C8	2.52	0.45
35:BA:2390:U:O2'	35:BA:2391:G:H5'	2.17	0.45
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.82	0.45
35:BA:2733:A:H2'	35:BA:2734:A:O4'	2.16	0.45
35:BA:2735:G:N2	35:BA:2770:G:H1'	2.31	0.45
37:BC:146:GLY:O	37:BC:147:PHE:C	2.60	0.45
40:BF:4:VAL:HG22	40:BF:19:GLU:OE1	2.17	0.45
40:BF:120:GLU:C	40:BF:122:LYS:H	2.24	0.45
40:BF:195:ASP:OD1	40:BF:195:ASP:C	2.59	0.45
41:BG:95:ARG:O	41:BG:96:ARG:C	2.58	0.45
42:BH:83:TYR:HB3	42:BH:135:GLY:C	2.41	0.45
44:BJ:89:UNK:O	44:BJ:90:UNK:CB	2.65	0.45
45:BN:93:THR:O	45:BN:94:HIS:CB	2.64	0.45
45:BN:96:GLU:O	45:BN:100:GLU:HB2	2.17	0.45
49:BR:9:LYS:O	49:BR:10:LEU:HG	2.16	0.45
50:BS:92:TYR:C	50:BS:94:TYR:N	2.74	0.45
52:BU:65:ILE:O	52:BU:67:ALA:N	2.50	0.45
54:BW:110:LYS:O	54:BW:112:GLY:N	2.50	0.45
56:BY:52:SER:HB3	56:BY:55:TYR:CE1	2.43	0.45
1:CA:185:A:O2'	1:CA:186:C:H5'	2.16	0.45
1:CA:832:C:O2'	1:CA:833:U:H6	2.00	0.45
1:CA:939:G:C5'	7:CG:102:ARG:HH22	2.08	0.45
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.17	0.45
2:CB:214:ILE:C	2:CB:218:ALA:HB2	2.42	0.45
4:CD:61:LYS:HE2	4:CD:62:GLN:N	2.32	0.45
4:CD:176:LEU:HD12	4:CD:182:LYS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:36:ASP:O	5:CE:37:ARG:HB2	2.15	0.45
5:CE:110:LEU:HB3	5:CE:115:VAL:HB	1.98	0.45
6:CF:5:GLU:CB	6:CF:62:TRP:HE1	2.24	0.45
6:CF:52:ILE:CD1	6:CF:87:ARG:HH22	2.30	0.45
6:CF:68:PRO:HG3	6:CF:71:ARG:NH2	2.32	0.45
7:CG:148:ASN:HD22	7:CG:148:ASN:N	2.13	0.45
9:CI:128:ARG:HD2	9:CI:128:ARG:H	1.82	0.45
12:CL:120:LYS:HE2	12:CL:120:LYS:HB3	1.71	0.45
13:CM:17:VAL:C	13:CM:19:LEU:H	2.23	0.45
13:CM:69:GLU:HA	13:CM:69:GLU:OE1	2.16	0.45
15:CO:15:PHE:O	15:CO:16:ALA:C	2.58	0.45
16:CP:5:ARG:CZ	16:CP:22:THR:HG21	2.46	0.45
19:CS:53:ASN:ND2	19:CS:58:VAL:CG2	2.80	0.45
20:CT:56:MET:O	20:CT:59:ALA:HB3	2.16	0.45
25:D0:16:SER:HB2	35:DA:2262:U:H5	1.81	0.45
28:D3:8:LEU:HD22	28:D3:31:LEU:CD2	2.47	0.45
33:D8:27:THR:HG22	47:DP:62:LEU:HD13	1.99	0.45
35:DA:1721:G:H8	35:DA:1741:A:N6	2.15	0.45
35:DA:2033:A:O2'	35:DA:2034:U:P	2.74	0.45
35:DA:2415:G:H4'	47:DP:67:MET:N	2.31	0.45
35:DA:2558:C:H2'	35:DA:2559:C:H6	1.82	0.45
38:DD:72:LYS:HG2	38:DD:97:TYR:CE2	2.52	0.45
38:DD:85:ASP:HB2	38:DD:92:ILE:HD12	1.99	0.45
39:DE:49:LEU:HD23	39:DE:49:LEU:H	1.77	0.45
40:DF:37:VAL:CG1	40:DF:184:TYR:HD1	2.28	0.45
40:DF:117:ARG:HD3	40:DF:117:ARG:HA	1.67	0.45
40:DF:184:TYR:CE2	40:DF:188:ARG:HD2	2.51	0.45
41:DG:4:ASP:HA	41:DG:8:LYS:HD3	1.98	0.45
41:DG:16:ARG:O	41:DG:20:ILE:HG13	2.16	0.45
48:DQ:110:THR:HG23	48:DQ:113:GLN:HB2	1.98	0.45
48:DQ:139:GLU:C	48:DQ:141:GLN:N	2.74	0.45
53:DV:5:VAL:CG2	53:DV:35:LEU:HB3	2.47	0.45
53:DV:35:LEU:HA	53:DV:36:PRO:HD2	1.74	0.45
55:DX:12:VAL:HG23	55:DX:17:ALA:CB	2.47	0.45
56:DY:50:ARG:HG3	56:DY:56:PRO:O	2.17	0.45
56:DY:54:LYS:HE3	56:DY:55:TYR:CE2	2.51	0.45
57:DZ:79:ARG:O	57:DZ:80:ARG:CB	2.61	0.45
57:DZ:91:LEU:HD23	57:DZ:96:VAL:HG11	1.97	0.45
57:DZ:133:ILE:HG22	57:DZ:133:ILE:O	2.16	0.45
1:AA:57:G:H2'	1:AA:58:C:C6	2.51	0.45
1:AA:97:G:O2'	1:AA:98:G:H8	1.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:113:G:H2'	1:AA:114:U:C6	2.51	0.45
1:AA:381:C:H2'	1:AA:382:A:O4'	2.16	0.45
1:AA:963:G:N3	10:AJ:55:LYS:NZ	2.64	0.45
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.32	0.45
1:AA:1375:A:H4'	7:AG:29:LYS:NZ	2.32	0.45
2:AB:28:PHE:CD1	2:AB:28:PHE:O	2.69	0.45
2:AB:42:ILE:O	2:AB:42:ILE:HG23	2.17	0.45
2:AB:92:TYR:HE1	2:AB:94:ASN:HB2	1.81	0.45
5:AE:139:LEU:C	5:AE:141:GLN:N	2.70	0.45
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.32	0.45
13:AM:94:ARG:N	13:AM:94:ARG:HD2	2.32	0.45
15:AO:37:ASN:N	15:AO:37:ASN:ND2	2.61	0.45
17:AQ:54:GLY:O	17:AQ:81:ARG:HB2	2.16	0.45
17:AQ:67:LYS:HA	17:AQ:70:ARG:NH1	2.26	0.45
18:AR:32:ARG:HG2	18:AR:65:ILE:CG2	2.47	0.45
22:AW:23:C:H2'	22:AW:24:U:C6	2.51	0.45
23:AX:22:A:C4'	23:AX:22:A:C4	2.97	0.45
24:AY:43:TRP:O	24:AY:44:THR:C	2.58	0.45
25:B0:37:LEU:HG	25:B0:60:PHE:HA	1.98	0.45
29:B4:3:GLU:HA	29:B4:6:HIS:CE1	2.52	0.45
31:B6:16:CYS:O	31:B6:18:ARG:NH1	2.49	0.45
35:BA:94:C:O2	35:BA:94:C:H2'	2.16	0.45
35:BA:108:U:H2'	35:BA:109:G:C8	2.52	0.45
35:BA:510:C:H2'	35:BA:511:U:O4'	2.16	0.45
35:BA:812:C:H5'	47:BP:25:SER:HB2	1.97	0.45
35:BA:829:A:N7	35:BA:2248:C:H5'	2.32	0.45
35:BA:941:A:H2'	35:BA:942:G:C8	2.51	0.45
35:BA:996:A:H4'	52:BU:92:ARG:CZ	2.46	0.45
35:BA:1151:G:H5''	52:BU:81:HIS:CE1	2.51	0.45
35:BA:1265:A:OP1	35:BA:1265:A:H8	2.00	0.45
35:BA:1763:G:H2'	35:BA:1764:G:C5'	2.47	0.45
35:BA:1918:A:O2'	35:BA:1920:C:N4	2.50	0.45
35:BA:2038:G:C6	35:BA:2039:C:C4	3.05	0.45
35:BA:2685:G:C5'	46:BO:68:GLU:OE2	2.62	0.45
38:BD:231:HIS:ND1	38:BD:232:PRO:HD2	2.31	0.45
41:BG:5:VAL:CG1	41:BG:6:ALA:H	2.29	0.45
41:BG:117:PHE:CE1	41:BG:119:GLY:CA	3.00	0.45
41:BG:133:LEU:HD13	41:BG:133:LEU:C	2.42	0.45
42:BH:7:LEU:HB3	42:BH:65:HIS:NE2	2.31	0.45
42:BH:17:VAL:HG13	42:BH:24:VAL:HG21	1.99	0.45
43:BI:66:GLU:C	43:BI:68:LEU:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:88:ILE:CG1	43:BI:92:VAL:HG23	2.42	0.45
45:BN:3:THR:O	45:BN:5:VAL:N	2.50	0.45
45:BN:39:ARG:O	45:BN:41:ASP:N	2.49	0.45
47:BP:16:ARG:CG	47:BP:17:LYS:N	2.80	0.45
47:BP:45:LEU:HD12	47:BP:45:LEU:N	2.22	0.45
47:BP:96:THR:HG22	47:BP:126:VAL:CG2	2.45	0.45
48:BQ:57:HIS:NE2	48:BQ:116:GLU:HB3	2.32	0.45
52:BU:104:GLN:O	52:BU:107:ALA:HB3	2.17	0.45
56:BY:13:VAL:HG22	56:BY:14:LEU:N	2.31	0.45
1:CA:321:A:H4'	1:CA:1436:U:O4'	2.17	0.45
1:CA:323:U:H2'	1:CA:324:G:O4'	2.16	0.45
1:CA:572:A:N3	1:CA:917:G:H1'	2.31	0.45
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.47	0.45
1:CA:1069:C:N4	1:CA:1094:G:N2	2.62	0.45
2:CB:46:LYS:HD2	2:CB:46:LYS:N	2.31	0.45
2:CB:71:VAL:HG12	2:CB:93:VAL:CG2	2.47	0.45
2:CB:108:ILE:HG22	2:CB:108:ILE:O	2.17	0.45
3:CC:73:PRO:HB3	3:CC:103:VAL:CG1	2.47	0.45
3:CC:172:ARG:C	3:CC:173:VAL:HG23	2.42	0.45
5:CE:18:ARG:NH1	5:CE:25:ARG:HB3	2.32	0.45
5:CE:48:ALA:C	5:CE:50:GLU:H	2.23	0.45
5:CE:48:ALA:O	5:CE:50:GLU:N	2.50	0.45
8:CH:88:LYS:O	8:CH:92:ARG:NH1	2.49	0.45
9:CI:6:GLY:CA	9:CI:83:ARG:HG2	2.46	0.45
13:CM:81:LEU:C	13:CM:83:ASP:H	2.23	0.45
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.47	0.45
15:CO:82:ILE:HA	15:CO:87:ILE:HD11	1.97	0.45
17:CQ:29:HIS:O	17:CQ:31:LEU:N	2.50	0.45
21:CU:18:TYR:CD2	21:CU:24:ARG:HA	2.49	0.45
22:CV:15:G:H2'	22:CV:59:A:C2	2.51	0.45
22:CV:29:G:O2'	22:CV:30:G:H5'	2.16	0.45
22:CV:29:G:H2'	22:CV:30:G:O4'	2.17	0.45
29:D4:24:THR:CG2	29:D4:25:TYR:H	2.08	0.45
33:D8:53:PRO:HG2	33:D8:54:GLU:H	1.82	0.45
35:DA:271(M):G:H5''	43:DI:57:ARG:NH1	2.12	0.45
35:DA:709:U:H2'	35:DA:710:G:C8	2.52	0.45
35:DA:812:C:H5'	47:DP:25:SER:HB2	1.99	0.45
35:DA:1192:G:C2'	35:DA:1193:G:H5'	2.46	0.45
35:DA:1300:U:H3'	35:DA:1300:U:O2	2.17	0.45
35:DA:1488:G:N3	35:DA:1488:G:H2'	2.32	0.45
35:DA:1956:U:H2'	35:DA:1957:C:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2302:G:C1'	41:DG:128:ARG:HH21	2.26	0.45
35:DA:2328:A:H2'	35:DA:2329:G:O4'	2.17	0.45
35:DA:2491:U:O2'	35:DA:2492:U:H5'	2.17	0.45
35:DA:2724:C:OP1	49:DR:2:ARG:NH2	2.49	0.45
35:DA:2818:G:O2'	35:DA:2819:G:H5'	2.15	0.45
38:DD:71:ASP:O	38:DD:72:LYS:HD2	2.16	0.45
38:DD:181:GLU:HA	38:DD:272:ALA:HB1	1.98	0.45
39:DE:111:ARG:HG3	49:DR:2:ARG:CD	2.47	0.45
40:DF:130:ALA:C	40:DF:132:VAL:N	2.74	0.45
41:DG:39:ILE:HD11	41:DG:155:MET:SD	2.57	0.45
42:DH:58:GLU:O	42:DH:60:ARG:N	2.50	0.45
42:DH:60:ARG:O	42:DH:64:LEU:HD23	2.16	0.45
43:DI:66:GLU:C	43:DI:68:LEU:N	2.73	0.45
45:DN:3:THR:O	45:DN:5:VAL:N	2.49	0.45
45:DN:62:VAL:CG2	45:DN:66:LYS:HB2	2.46	0.45
46:DO:1:MET:HG3	46:DO:67:LYS:HG2	1.99	0.45
46:DO:69:ILE:HD12	46:DO:69:ILE:H	1.82	0.45
46:DO:104:ARG:HH21	51:DT:33:LYS:HZ2	1.59	0.45
47:DP:63:PRO:C	47:DP:65:ARG:H	2.24	0.45
48:DQ:110:THR:OG1	48:DQ:111:GLU:N	2.48	0.45
51:DT:25:GLY:HA3	51:DT:120:ARG:HH22	1.80	0.45
51:DT:54:ARG:HG2	51:DT:54:ARG:NH1	2.31	0.45
53:DV:5:VAL:CG2	53:DV:6:LYS:N	2.80	0.45
53:DV:19:LYS:HD3	53:DV:22:VAL:CG1	2.47	0.45
53:DV:34:GLU:O	53:DV:36:PRO:HD3	2.17	0.45
53:DV:40:LEU:C	53:DV:45:THR:HB	2.41	0.45
54:DW:62:HIS:O	54:DW:64:MET:HG3	2.16	0.45
55:DX:89:ILE:O	55:DX:93:GLU:OE2	2.34	0.45
56:DY:27:VAL:CA	56:DY:28:LYS:HZ1	2.25	0.45
57:DZ:124:ILE:HD13	57:DZ:155:LEU:HD11	1.98	0.45
57:DZ:166:SER:N	57:DZ:167:PRO:HA	2.31	0.45
1:AA:44:G:C2	1:AA:45:U:H1'	2.52	0.45
1:AA:142:G:H2'	1:AA:143:A:H8	1.82	0.45
1:AA:488:C:O2'	1:AA:489:C:H5'	2.17	0.45
1:AA:509:A:H5'	4:AD:54:TYR:HD2	1.80	0.45
1:AA:677:U:H3	1:AA:714:G:H22	1.64	0.45
1:AA:1057:G:H5''	3:AC:154:SER:OG	2.16	0.45
1:AA:1060:C:H5''	10:AJ:51:ARG:HB3	1.99	0.45
1:AA:1306:A:H2'	1:AA:1307:U:C6	2.52	0.45
1:AA:1387:G:C6	1:AA:1388:C:N4	2.85	0.45
2:AB:44:LEU:N	2:AB:44:LEU:CD2	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:186:ALA:H	2:AB:200:ILE:HG22	1.81	0.45
2:AB:209:ARG:C	2:AB:211:ILE:H	2.25	0.45
3:AC:79:ARG:HG3	3:AC:79:ARG:NH1	2.32	0.45
5:AE:56:GLN:O	5:AE:57:LYS:C	2.58	0.45
5:AE:80:ILE:HG22	8:AH:104:ARG:HH12	1.76	0.45
6:AF:5:GLU:CB	6:AF:62:TRP:HE1	2.24	0.45
6:AF:97:PHE:O	18:AR:30:ASP:HA	2.16	0.45
8:AH:54:ASP:O	8:AH:56:LYS:HG3	2.17	0.45
9:AI:17:VAL:HA	9:AI:63:ILE:HG12	1.99	0.45
13:AM:82:MET:O	13:AM:82:MET:CG	2.65	0.45
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.46	0.45
16:AP:32:TYR:CE2	16:AP:35:LYS:HB2	2.52	0.45
16:AP:59:TRP:HA	16:AP:62:VAL:CG2	2.47	0.45
19:AS:14:HIS:CD2	19:AS:14:HIS:N	2.84	0.45
22:AV:76:A:O2'	35:BA:2451:A:N3	2.49	0.45
29:B4:6:HIS:HB3	41:BG:67:LYS:CD	2.46	0.45
33:B8:23:VAL:HG12	33:B8:46:ARG:HB3	1.98	0.45
35:BA:271(K):U:H5'	35:BA:271(L):U:C5	2.52	0.45
35:BA:528:A:C2	35:BA:2043:C:H4'	2.52	0.45
35:BA:661:C:H2'	35:BA:662:G:C8	2.52	0.45
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.17	0.45
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.32	0.45
35:BA:2230:G:H2'	35:BA:2231:C:H6	1.81	0.45
35:BA:2747:G:O6	35:BA:2755:C:H5''	2.17	0.45
35:BA:2807:G:C2'	35:BA:2808:U:H5''	2.46	0.45
36:BB:24:G:H5'	36:BB:25:A:N7	2.32	0.45
36:BB:44:G:C2	36:BB:48:A:C2	3.04	0.45
38:BD:133:LEU:C	38:BD:135:PHE:N	2.73	0.45
39:BE:111:ARG:HG3	49:BR:2:ARG:CD	2.45	0.45
41:BG:5:VAL:CG1	41:BG:6:ALA:N	2.78	0.45
45:BN:94:HIS:HA	45:BN:96:GLU:OE1	2.16	0.45
48:BQ:35:VAL:HG22	48:BQ:36:ALA:N	2.31	0.45
51:BT:27:THR:O	51:BT:28:VAL:CG2	2.65	0.45
51:BT:56:GLY:C	51:BT:57:PHE:O	2.59	0.45
55:BX:14:SER:O	55:BX:17:ALA:HB3	2.16	0.45
56:BY:50:ARG:HG3	56:BY:56:PRO:O	2.17	0.45
57:BZ:63:ASP:C	57:BZ:65:GLN:H	2.23	0.45
1:CA:8:A:C5'	5:CE:120:THR:O	2.64	0.45
1:CA:300:A:H2'	1:CA:301:G:C5'	2.47	0.45
1:CA:501:C:O2'	1:CA:502:G:H5'	2.16	0.45
1:CA:633:G:H2'	1:CA:634:C:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1179:A:O3'	9:CI:103:THR:HG23	2.16	0.45
1:CA:1350:A:OP1	9:CI:121:ARG:HG3	2.16	0.45
2:CB:17:PHE:HB2	2:CB:44:LEU:HD11	1.99	0.45
2:CB:55:PHE:CZ	2:CB:218:ALA:HA	2.52	0.45
2:CB:82:ARG:HH11	2:CB:82:ARG:HG2	1.81	0.45
3:CC:6:HIS:NE2	3:CC:184:TYR:CD2	2.85	0.45
3:CC:73:PRO:HB3	3:CC:103:VAL:HG12	1.99	0.45
4:CD:28:SER:OG	4:CD:30:LYS:HG3	2.16	0.45
5:CE:107:ARG:O	5:CE:109:ILE:N	2.49	0.45
5:CE:148:VAL:C	5:CE:150:ARG:N	2.75	0.45
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.31	0.45
7:CG:107:ALA:CB	7:CG:134:ALA:HB2	2.47	0.45
9:CI:78:LYS:HB2	9:CI:78:LYS:NZ	2.32	0.45
10:CJ:96:ILE:HG12	10:CJ:96:ILE:O	2.17	0.45
11:CK:33:THR:HB	11:CK:37:GLY:C	2.42	0.45
15:CO:12:ILE:C	15:CO:14:GLU:H	2.25	0.45
15:CO:78:TYR:O	15:CO:80:ALA:N	2.43	0.45
17:CQ:54:GLY:HA3	17:CQ:82:MET:SD	2.57	0.45
21:CU:12:LYS:HB3	21:CU:17:THR:O	2.16	0.45
27:D2:64:LEU:CD2	27:D2:68:ARG:HH11	2.25	0.45
31:D6:16:CYS:O	31:D6:17:LYS:HB3	2.17	0.45
33:D8:2:PRO:O	33:D8:3:LYS:CB	2.65	0.45
35:DA:996:A:H4'	52:DU:92:ARG:CZ	2.47	0.45
35:DA:1532:C:O2	35:DA:1532:C:H2'	2.16	0.45
35:DA:1643:G:H2'	35:DA:1644:C:O5'	2.16	0.45
35:DA:2040:C:C2	35:DA:2041:U:C6	3.05	0.45
35:DA:2065:C:H2'	35:DA:2066:C:C6	2.51	0.45
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.47	0.45
35:DA:2256:G:O2'	35:DA:2257:U:H5'	2.16	0.45
35:DA:2280:G:O2'	35:DA:2281:C:H5'	2.16	0.45
35:DA:2773:C:OP1	39:DE:164:ARG:NE	2.50	0.45
35:DA:2822:G:H8	35:DA:2822:G:O5'	2.00	0.45
38:DD:72:LYS:HE2	38:DD:75:ILE:HD12	1.98	0.45
38:DD:211:ARG:HA	38:DD:214:TRP:CE3	2.52	0.45
40:DF:4:VAL:HG22	40:DF:19:GLU:OE1	2.17	0.45
40:DF:125:LEU:HA	40:DF:194:MET:O	2.16	0.45
40:DF:136:THR:O	40:DF:137:LYS:C	2.59	0.45
40:DF:196:LEU:O	40:DF:198:ALA:N	2.50	0.45
46:DO:22:ILE:HG12	46:DO:41:ALA:HA	1.99	0.45
47:DP:16:ARG:CG	47:DP:17:LYS:N	2.79	0.45
47:DP:135:LEU:O	47:DP:136:GLU:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:28:ALA:C	48:DQ:29:PHE:CD1	2.95	0.45
51:DT:12:SER:O	51:DT:13:ARG:NH2	2.49	0.45
51:DT:27:THR:O	51:DT:47:GLY:O	2.34	0.45
51:DT:65:LYS:HG3	51:DT:66:VAL:N	2.31	0.45
55:DX:55:ASN:O	55:DX:79:ALA:HA	2.16	0.45
56:DY:81:LYS:HG2	56:DY:97:ARG:HE	1.82	0.45
57:DZ:33:LEU:HG	57:DZ:34:ASN:N	2.31	0.45
57:DZ:116:VAL:HG12	57:DZ:117:LEU:N	2.32	0.45
1:AA:22:G:O2'	1:AA:23:C:H5'	2.17	0.45
1:AA:255:G:O6	1:AA:266:G:O6	2.35	0.45
1:AA:512:U:H2'	1:AA:513:C:H6	1.82	0.45
1:AA:1202:G:O2'	14:AN:27:CYS:HB2	2.17	0.45
1:AA:1338:G:C2'	1:AA:1339:A:H5'	2.47	0.45
1:AA:1416:G:O2'	1:AA:1417:G:H5'	2.16	0.45
2:AB:17:PHE:C	2:AB:17:PHE:CD2	2.93	0.45
2:AB:28:PHE:O	2:AB:28:PHE:CG	2.70	0.45
2:AB:55:PHE:CZ	2:AB:218:ALA:HA	2.52	0.45
2:AB:87:ARG:O	2:AB:223:ILE:HD11	2.16	0.45
6:AF:68:PRO:HG3	6:AF:71:ARG:NH2	2.31	0.45
7:AG:75:VAL:O	7:AG:75:VAL:HG23	2.16	0.45
9:AI:78:LYS:HB2	9:AI:78:LYS:NZ	2.32	0.45
9:AI:128:ARG:HD2	9:AI:128:ARG:H	1.82	0.45
11:AK:95:ILE:O	11:AK:98:LEU:HB2	2.17	0.45
11:AK:109:VAL:HG22	18:AR:86:VAL:HG13	1.98	0.45
13:AM:35:GLU:C	13:AM:37:THR:H	2.25	0.45
17:AQ:53:LEU:CD2	17:AQ:85:VAL:HG21	2.46	0.45
19:AS:31:ILE:CG2	19:AS:49:ILE:HG22	2.47	0.45
22:AW:24:U:H2'	22:AW:25:C:C6	2.51	0.45
23:AX:21:C:C2'	23:AX:22:A:H5'	2.38	0.45
30:B5:3:LYS:HB3	30:B5:4:HIS:H	1.43	0.45
30:B5:57:VAL:HG23	30:B5:58:LEU:H	1.81	0.45
31:B6:30:THR:HB	31:B6:31:PRO:CD	2.45	0.45
35:BA:230:U:O2'	35:BA:231:C:H5'	2.16	0.45
35:BA:272(B):G:HO2'	35:BA:272(C):G:C5'	2.30	0.45
35:BA:309:G:N3	35:BA:329:G:O2'	2.49	0.45
35:BA:535:C:C2'	35:BA:536:A:H5'	2.46	0.45
35:BA:582:G:H2'	35:BA:583:G:C8	2.51	0.45
35:BA:1204:A:C2	35:BA:1241:A:N1	2.84	0.45
35:BA:1221:C:H5'	35:BA:1221:C:H6	1.81	0.45
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.48	0.45
36:BB:70:C:H2'	36:BB:71:C:C6	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:47:LEU:HB3	37:BC:207:THR:CB	2.47	0.45
38:BD:28:GLU:HB2	38:BD:29:PRO:CD	2.47	0.45
38:BD:53:PHE:CD1	38:BD:219:PRO:O	2.70	0.45
38:BD:155:LEU:HD12	38:BD:155:LEU:N	2.32	0.45
38:BD:232:PRO:HD2	38:BD:249:PRO:HA	1.99	0.45
39:BE:1:MET:C	39:BE:84:PHE:HB2	2.42	0.45
41:BG:129:GLY:CA	41:BG:163:ALA:O	2.64	0.45
42:BH:54:ARG:HG2	42:BH:65:HIS:CG	2.51	0.45
42:BH:58:GLU:O	42:BH:60:ARG:N	2.50	0.45
45:BN:25:ARG:HH11	45:BN:25:ARG:CG	2.20	0.45
48:BQ:39:PRO:HB3	48:BQ:99:PRO:HD3	1.99	0.45
49:BR:72:ASP:HB3	49:BR:75:LEU:CB	2.47	0.45
49:BR:111:LEU:HD23	49:BR:111:LEU:HA	1.72	0.45
51:BT:38:ASN:CG	51:BT:39:ARG:H	2.25	0.45
51:BT:65:LYS:HG3	51:BT:66:VAL:N	2.32	0.45
52:BU:101:ARG:O	52:BU:102:GLU:CB	2.64	0.45
55:BX:55:ASN:O	55:BX:79:ALA:HA	2.17	0.45
1:CA:300:A:C2	1:CA:566:G:O6	2.70	0.45
1:CA:310:G:OP2	16:CP:27:LYS:HD3	2.17	0.45
1:CA:625:G:H2'	1:CA:626:U:C6	2.51	0.45
1:CA:1338:G:C2'	1:CA:1339:A:H5'	2.46	0.45
1:CA:1422:G:H4'	46:DO:49:ARG:HH21	1.82	0.45
1:CA:1442(B):A:OP2	1:CA:1442(B):A:H3'	2.17	0.45
2:CB:12:GLU:HA	2:CB:16:HIS:ND1	2.31	0.45
2:CB:209:ARG:C	2:CB:211:ILE:H	2.24	0.45
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.16	0.45
4:CD:68:TYR:HD1	4:CD:68:TYR:H	1.65	0.45
4:CD:129:ASN:ND2	4:CD:145:GLU:N	2.65	0.45
6:CF:91:VAL:CG1	6:CF:92:LYS:N	2.80	0.45
8:CH:9:MET:SD	8:CH:32:LYS:HB3	2.57	0.45
8:CH:121:ASP:CB	8:CH:125:ARG:HH12	2.26	0.45
9:CI:16:ARG:HH21	9:CI:64:THR:CB	2.29	0.45
10:CJ:76:ASN:O	10:CJ:78:ASN:N	2.42	0.45
11:CK:34:ASP:HB3	11:CK:40:ILE:HD11	1.98	0.45
12:CL:20:LYS:O	12:CL:21:VAL:HG23	2.17	0.45
12:CL:61:TYR:H	12:CL:61:TYR:HD1	1.65	0.45
15:CO:33:THR:O	15:CO:34:LEU:C	2.60	0.45
17:CQ:32:TYR:O	17:CQ:34:LYS:N	2.50	0.45
26:D1:5:CYS:HG	26:D1:8:SER:HG	1.52	0.45
26:D1:67:ILE:O	26:D1:68:PRO:C	2.58	0.45
26:D1:85:LEU:C	26:D1:85:LEU:HD23	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:3:LYS:HG3	35:DA:747:U:OP1	2.16	0.45
35:DA:186:G:O2'	35:DA:187:G:H5'	2.17	0.45
35:DA:269:U:O2	35:DA:269:U:H2'	2.17	0.45
35:DA:375:C:H2'	35:DA:376:C:C6	2.52	0.45
35:DA:478:A:C6	35:DA:480:A:C6	3.04	0.45
35:DA:956:G:N2	35:DA:959:A:H3'	2.32	0.45
35:DA:1466:G:H2'	35:DA:1466:G:N3	2.31	0.45
35:DA:1475:G:H5'	35:DA:1476:C:OP2	2.17	0.45
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.17	0.45
35:DA:1915:U:H3'	35:DA:1915:U:H6	1.82	0.45
35:DA:1956:U:C2'	35:DA:1957:C:H5'	2.47	0.45
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.39	0.45
35:DA:2749:A:H1'	42:DH:63:SER:OG	2.16	0.45
38:DD:28:GLU:HB2	38:DD:29:PRO:CD	2.46	0.45
40:DF:115:ALA:O	40:DF:116:ASP:C	2.59	0.45
41:DG:47:LYS:NZ	41:DG:81:LYS:HZ1	2.14	0.45
42:DH:54:ARG:HG2	42:DH:65:HIS:CG	2.51	0.45
42:DH:87:LEU:HD23	42:DH:164:TYR:HD2	1.82	0.45
42:DH:116:GLU:OE1	42:DH:117:PRO:HD2	2.16	0.45
43:DI:110:ASP:HB3	43:DI:130:TYR:HE1	1.80	0.45
45:DN:14:VAL:CG1	45:DN:15:LEU:N	2.80	0.45
46:DO:8:LEU:CD1	46:DO:82:ASN:HB3	2.47	0.45
49:DR:16:HIS:O	49:DR:17:ARG:C	2.59	0.45
52:DU:104:GLN:O	52:DU:107:ALA:HB3	2.17	0.45
53:DV:38:LEU:HD23	53:DV:38:LEU:C	2.42	0.45
57:DZ:67:LEU:HD23	57:DZ:90:VAL:CG1	2.47	0.45
57:DZ:92:SER:O	57:DZ:93:ASP:HB3	2.17	0.45
1:AA:105:G:H2'	1:AA:106:C:H6	1.78	0.45
1:AA:154:C:O2'	1:AA:155:C:H5'	2.17	0.45
1:AA:158:G:H2'	1:AA:159:G:C8	2.47	0.45
1:AA:174:C:H2'	1:AA:175:C:H6	1.82	0.45
1:AA:310:G:OP2	16:AP:27:LYS:HD3	2.17	0.45
1:AA:426:G:OP1	4:AD:38:TYR:OH	2.28	0.45
1:AA:613:C:H42	1:AA:627:G:H1	1.65	0.45
1:AA:973:G:H1'	10:AJ:55:LYS:CD	2.46	0.45
1:AA:1069:C:H41	1:AA:1094:G:N2	2.14	0.45
1:AA:1152:A:P	10:AJ:13:HIS:HD1	2.39	0.45
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	2.16	0.45
1:AA:1297:C:OP2	13:AM:44:ARG:NH2	2.36	0.45
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.52	0.45
2:AB:87:ARG:HH21	2:AB:223:ILE:HD12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:174:VAL:HG13	2:AB:184:VAL:HG11	1.99	0.45
3:AC:9:GLY:CA	14:AN:49:HIS:HA	2.47	0.45
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.52	0.45
4:AD:188:LEU:O	4:AD:189:PRO:C	2.59	0.45
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.16	0.45
5:AE:57:LYS:O	5:AE:61:TYR:HD2	1.99	0.45
7:AG:18:TYR:CD2	7:AG:59:LEU:HD13	2.52	0.45
7:AG:92:SER:OG	7:AG:93:PRO:HD2	2.16	0.45
8:AH:19:VAL:O	8:AH:20:TYR:HB2	2.17	0.45
11:AK:126:ARG:C	11:AK:128:ALA:N	2.74	0.45
13:AM:3:ARG:NE	13:AM:7:VAL:HG13	2.32	0.45
13:AM:14:ARG:C	13:AM:16:ASP:H	2.25	0.45
15:AO:82:ILE:CG2	15:AO:83:GLU:H	2.28	0.45
16:AP:48:TRP:CD1	16:AP:48:TRP:H	2.35	0.45
18:AR:71:LYS:O	18:AR:74:ARG:HG3	2.17	0.45
29:B4:14:ILE:HD13	29:B4:22:ILE:C	2.42	0.45
31:B6:11:LEU:C	31:B6:12:GLU:CD	2.85	0.45
32:B7:40:TRP:CD2	35:BA:459:U:C5'	3.00	0.45
35:BA:774:A:O2'	35:BA:775:G:P	2.74	0.45
35:BA:814:C:C5	47:BP:27:HIS:CE1	3.05	0.45
35:BA:857:C:O2	35:BA:857:C:C2'	2.64	0.45
35:BA:1348:G:H2'	35:BA:1349:A:C5'	2.45	0.45
35:BA:1560:G:C4	35:BA:1561:G:C8	3.05	0.45
35:BA:1577:C:H2'	35:BA:1578:U:C1'	2.47	0.45
35:BA:2007:C:H2'	35:BA:2008:C:C6	2.52	0.45
35:BA:2285:C:C2'	35:BA:2286:A:H5'	2.46	0.45
35:BA:2377:A:H4'	50:BS:107:GLU:HG2	1.98	0.45
35:BA:2533:A:OP1	35:BA:2665:A:H1'	2.16	0.45
35:BA:2753:A:O2'	35:BA:2754:U:H5'	2.17	0.45
36:BB:4:C:H2'	36:BB:5:C:C6	2.52	0.45
36:BB:81:G:H2'	36:BB:82:G:H5'	1.98	0.45
38:BD:110:GLY:O	38:BD:112:GLN:HG3	2.15	0.45
38:BD:147:LEU:HD12	38:BD:155:LEU:HD11	1.98	0.45
42:BH:24:VAL:HG11	42:BH:72:ILE:CD1	2.47	0.45
46:BO:26:LYS:HD2	46:BO:37:ASP:OD2	2.17	0.45
47:BP:34:GLY:O	47:BP:35:HIS:CB	2.65	0.45
48:BQ:61:GLY:O	57:BZ:177:PRO:HB2	2.17	0.45
51:BT:12:SER:O	51:BT:15:VAL:HG13	2.16	0.45
52:BU:27:LEU:C	52:BU:29:SER:N	2.74	0.45
53:BV:75:PHE:C	53:BV:75:PHE:CD1	2.94	0.45
56:BY:13:VAL:HG22	56:BY:14:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:54:LYS:O	56:BY:55:TYR:O	2.34	0.45
56:BY:81:LYS:HE2	56:BY:97:ARG:NE	2.31	0.45
57:BZ:2:GLU:HA	57:BZ:2:GLU:OE1	2.17	0.45
57:BZ:51:ALA:HA	57:BZ:55:HIS:CD2	2.52	0.45
57:BZ:111:VAL:O	57:BZ:113:ALA:N	2.47	0.45
1:CA:271:C:H2'	1:CA:272:C:H6	1.82	0.45
1:CA:511:C:HO2'	1:CA:512:U:H6	1.64	0.45
1:CA:537:G:H5''	12:CL:110:ARG:NH1	2.32	0.45
1:CA:572:A:C5'	1:CA:917:G:H4'	2.46	0.45
1:CA:783:C:HO2'	1:CA:784:C:H5'	1.81	0.45
1:CA:877:C:O3'	8:CH:89:PRO:HD2	2.17	0.45
1:CA:973:G:H1'	10:CJ:55:LYS:CD	2.47	0.45
1:CA:1078:U:O2	5:CE:130:ASN:OD1	2.33	0.45
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.65	0.45
4:CD:11:LEU:O	4:CD:12:CYS:C	2.60	0.45
4:CD:24:GLU:O	4:CD:27:TYR:HB2	2.17	0.45
4:CD:129:ASN:ND2	4:CD:145:GLU:H	2.15	0.45
8:CH:54:ASP:O	8:CH:56:LYS:HG3	2.17	0.45
9:CI:28:VAL:HG21	9:CI:63:ILE:HB	1.98	0.45
9:CI:84:ALA:O	9:CI:87:GLN:HB3	2.16	0.45
11:CK:115:PRO:C	11:CK:117:ASN:H	2.25	0.45
14:CN:27:CYS:SG	14:CN:28:GLY:N	2.90	0.45
15:CO:17:ARG:HH11	15:CO:17:ARG:HG3	1.81	0.45
15:CO:34:LEU:O	15:CO:35:ARG:C	2.59	0.45
16:CP:4:ILE:HA	16:CP:20:VAL:O	2.17	0.45
22:CW:3:C:O5'	22:CW:3:C:H6	1.99	0.45
22:CW:66:C:H2'	22:CW:67:C:H5'	1.97	0.45
25:D0:56:ASP:O	25:D0:57:PHE:CB	2.65	0.45
29:D4:14:ILE:HD13	29:D4:22:ILE:C	2.42	0.45
31:D6:16:CYS:O	31:D6:18:ARG:NH1	2.49	0.45
32:D7:40:TRP:CD2	35:DA:459:U:C5'	3.00	0.45
35:DA:17:G:H2'	35:DA:18:C:H6	1.77	0.45
35:DA:108:U:H2'	35:DA:109:G:C8	2.52	0.45
35:DA:118:A:C8	35:DA:119:A:C8	3.05	0.45
35:DA:286:C:H2'	35:DA:287:C:H6	1.82	0.45
35:DA:543:C:O2'	35:DA:547:A:P	2.75	0.45
35:DA:887:A:H1'	35:DA:889:C:C4	2.51	0.45
35:DA:1045:A:H5''	35:DA:1047:G:N3	2.32	0.45
35:DA:1151:G:H5''	52:DU:81:HIS:CE1	2.52	0.45
35:DA:1464:C:H2'	35:DA:1465:G:C8	2.52	0.45
35:DA:1510:G:H2'	35:DA:1511:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1510:G:O2'	35:DA:1511:C:H5'	2.16	0.45
35:DA:1831:G:H2'	35:DA:1832:C:H6	1.82	0.45
35:DA:2772:C:H2'	35:DA:2773:C:C6	2.52	0.45
35:DA:2786:U:H2'	35:DA:2787:C:C6	2.52	0.45
35:DA:2801(A):A:H4'	35:DA:2802:G:C5'	2.40	0.45
38:DD:44:ASN:CB	38:DD:48:ARG:O	2.65	0.45
38:DD:71:ASP:CG	38:DD:103:ARG:NH2	2.74	0.45
38:DD:199:ALA:C	38:DD:201:HIS:N	2.74	0.45
39:DE:4:ILE:CG1	39:DE:5:LEU:N	2.80	0.45
39:DE:31:CYS:HA	39:DE:32:PRO:HD2	1.87	0.45
41:DG:132:ASN:HA	41:DG:158:ALA:HA	1.98	0.45
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.46	0.45
43:DI:88:ILE:CG1	43:DI:92:VAL:HG23	2.44	0.45
47:DP:6:LEU:HG	47:DP:8:PRO:CD	2.45	0.45
47:DP:66:GLY:O	47:DP:67:MET:HB3	2.15	0.45
53:DV:13:ARG:HG2	53:DV:13:ARG:NH1	2.31	0.45
53:DV:83:ARG:HG2	53:DV:83:ARG:NH1	2.27	0.45
54:DW:87:PRO:HA	54:DW:93:ALA:HA	1.99	0.45
57:DZ:37:VAL:HG23	57:DZ:38:TYR:N	2.31	0.45
57:DZ:150:LEU:O	57:DZ:151:HIS:HB3	2.17	0.45
1:AA:189(I):G:O2'	1:AA:189(J):G:H5'	2.16	0.45
1:AA:377:G:O2'	1:AA:378:G:H5'	2.16	0.45
1:AA:444:C:H2'	1:AA:445:G:C8	2.48	0.45
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.17	0.45
2:AB:10:LEU:HA	2:AB:13:ALA:CB	2.47	0.45
2:AB:43:ASP:OD2	2:AB:46:LYS:NZ	2.46	0.45
2:AB:209:ARG:C	2:AB:211:ILE:N	2.75	0.45
4:AD:4:TYR:CE2	4:AD:11:LEU:HD21	2.52	0.45
8:AH:65:TYR:N	8:AH:65:TYR:CD1	2.85	0.45
9:AI:26:VAL:HG13	9:AI:61:ALA:O	2.17	0.45
9:AI:27:THR:CG2	9:AI:28:VAL:N	2.80	0.45
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.17	0.45
12:AL:98:VAL:O	12:AL:99:ARG:C	2.60	0.45
21:AU:17:THR:O	21:AU:22:ARG:NH1	2.50	0.45
22:AW:29:G:O2'	22:AW:30:G:H5'	2.16	0.45
23:AX:13:A:H5''	23:AX:14:A:O4'	2.16	0.45
31:B6:16:CYS:O	31:B6:17:LYS:HB3	2.17	0.45
35:BA:615:G:OP2	40:BF:40:GLN:HG2	2.17	0.45
35:BA:664:C:H4'	35:BA:941:A:OP1	2.16	0.45
35:BA:667:U:H2'	35:BA:668:G:O4'	2.16	0.45
35:BA:680:G:H2'	35:BA:681:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1412:A:O2'	35:BA:1413:G:H5'	2.17	0.45
35:BA:1686:C:H5'	35:BA:1687:G:OP2	2.17	0.45
35:BA:2474:C:H2'	35:BA:2474:C:O2	2.17	0.45
35:BA:2698:U:H2'	35:BA:2699:C:C6	2.52	0.45
35:BA:2703:C:H2'	35:BA:2703:C:O2	2.16	0.45
35:BA:2811:G:C4'	39:BE:61:ARG:HH21	2.29	0.45
38:BD:62:TYR:HA	38:BD:87:ASN:HD21	1.82	0.45
39:BE:4:ILE:CG1	39:BE:5:LEU:N	2.80	0.45
39:BE:4:ILE:HG12	39:BE:5:LEU:O	2.16	0.45
39:BE:44:TYR:HE2	39:BE:80:GLU:OE1	2.00	0.45
41:BG:138:GLN:C	41:BG:140:ILE:H	2.25	0.45
42:BH:30:LYS:HE3	42:BH:81:GLU:HG3	1.98	0.45
42:BH:85:LYS:HD3	42:BH:133:VAL:CB	2.20	0.45
47:BP:32:THR:HG21	47:BP:37:GLY:HA2	1.98	0.45
48:BQ:27:VAL:O	48:BQ:29:PHE:N	2.49	0.45
48:BQ:55:VAL:HG12	48:BQ:64:ILE:CD1	2.46	0.45
49:BR:69:ASP:C	49:BR:70:LEU:O	2.57	0.45
49:BR:98:LEU:O	49:BR:113:LEU:HD23	2.17	0.45
52:BU:91:ASP:OD1	52:BU:96:ALA:HB2	2.17	0.45
52:BU:92:ARG:CD	52:BU:94:ASN:HB3	2.46	0.45
54:BW:71:VAL:HA	54:BW:107:LEU:HD12	2.00	0.45
56:BY:26:LYS:HG2	56:BY:27:VAL:N	2.28	0.45
57:BZ:179:ASP:OD2	57:BZ:179:ASP:C	2.60	0.45
1:CA:572:A:H4'	1:CA:917:G:C5'	2.44	0.45
1:CA:1206:G:O6	1:CA:1207:G:N1	2.50	0.45
1:CA:1492:A:H3'	1:CA:1493:A3P:H5'1	1.99	0.45
2:CB:105:PHE:O	2:CB:106:LYS:C	2.59	0.45
2:CB:187:LEU:HD13	2:CB:205:ASP:CA	2.47	0.45
6:CF:22:GLU:OE2	6:CF:22:GLU:HA	2.17	0.45
8:CH:95:VAL:HG22	8:CH:131:GLY:O	2.16	0.45
10:CJ:80:LYS:C	10:CJ:84:GLN:HE21	2.24	0.45
13:CM:3:ARG:HE	13:CM:7:VAL:HG13	1.82	0.45
13:CM:65:LYS:HA	13:CM:66:LEU:HG	1.98	0.45
13:CM:110:ARG:HG2	13:CM:110:ARG:NH1	2.30	0.45
16:CP:8:ARG:HH11	16:CP:8:ARG:HG2	1.82	0.45
16:CP:32:TYR:CE2	16:CP:35:LYS:HB2	2.52	0.45
16:CP:49:LEU:HD13	16:CP:73:LEU:HD23	1.99	0.45
16:CP:51:VAL:CG1	16:CP:52:ASP:H	2.30	0.45
20:CT:10:LEU:CD2	20:CT:12:ALA:HB2	2.40	0.45
22:CV:4:G:C6	22:CV:70:G:C6	3.05	0.45
29:D4:35:VAL:HG12	29:D4:36:CYS:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:30:THR:HB	31:D6:31:PRO:CD	2.44	0.45
33:D8:4:MET:HE2	35:DA:593:G:C4'	2.47	0.45
33:D8:55:ALA:C	33:D8:57:ARG:H	2.24	0.45
34:D9:31:LYS:HD3	35:DA:2528:U:H5'	1.99	0.45
35:DA:32:C:O2'	35:DA:33:U:H5'	2.17	0.45
35:DA:142(A):C:O2'	35:DA:143:G:H5'	2.17	0.45
35:DA:364:C:H2'	35:DA:365:C:H5'	1.98	0.45
35:DA:527:C:OP2	35:DA:2779:U:H5	2.00	0.45
35:DA:784:A:H5''	38:DD:227:ASN:ND2	2.31	0.45
35:DA:1120:G:H2'	35:DA:1121:C:C6	2.52	0.45
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.46	0.45
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.32	0.45
35:DA:1827:C:C2'	35:DA:1828:G:H5'	2.47	0.45
35:DA:1918:A:O2'	35:DA:1920:C:N4	2.49	0.45
35:DA:2513:G:H2'	35:DA:2514:U:C6	2.52	0.45
35:DA:2563:U:O2	35:DA:2565:A:H8	1.99	0.45
35:DA:2680:C:H5'	39:DE:189:PRO:HA	1.99	0.45
35:DA:2807:G:H2'	35:DA:2808:U:H5''	1.99	0.45
35:DA:2811:G:O2'	35:DA:2812:G:H5'	2.17	0.45
35:DA:2846:G:H2'	35:DA:2847:U:O4'	2.17	0.45
35:DA:2881:C:O3'	49:DR:96:ARG:HG3	2.16	0.45
37:DC:82:LYS:O	37:DC:86:ALA:HB3	2.17	0.45
38:DD:206:LEU:HA	38:DD:211:ARG:NH1	2.32	0.45
38:DD:232:PRO:HD2	38:DD:249:PRO:HA	1.99	0.45
39:DE:68:ALA:O	39:DE:70:ALA:N	2.49	0.45
39:DE:104:VAL:HG13	39:DE:198:VAL:HG22	1.98	0.45
41:DG:123:ASN:O	41:DG:126:ASP:OD1	2.34	0.45
41:DG:155:MET:HG2	41:DG:156:ASP:N	2.32	0.45
47:DP:85:LEU:HD23	47:DP:88:LEU:HD22	1.99	0.45
48:DQ:116:GLU:HA	48:DQ:116:GLU:OE1	2.16	0.45
48:DQ:124:LYS:O	48:DQ:125:LEU:HD23	2.17	0.45
49:DR:33:ARG:HD2	49:DR:33:ARG:N	2.31	0.45
51:DT:27:THR:O	51:DT:28:VAL:CG2	2.64	0.45
52:DU:92:ARG:HD2	52:DU:95:LEU:CD1	2.45	0.45
53:DV:6:LYS:HE2	53:DV:37:VAL:CG1	2.40	0.45
53:DV:46:VAL:HG22	53:DV:47:VAL:N	2.32	0.45
53:DV:69:LYS:HA	53:DV:88:ARG:HG2	1.99	0.45
56:DY:28:LYS:CB	56:DY:37:VAL:HB	2.45	0.45
1:AA:336:C:H2'	1:AA:337:C:C6	2.52	0.44
1:AA:987:G:H2'	1:AA:988:G:H8	1.83	0.44
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1157:A:N6	1:AA:1178:G:H1'	2.32	0.44
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.52	0.44
1:AA:1353:G:O2'	1:AA:1354:C:H5'	2.17	0.44
2:AB:71:VAL:HG12	2:AB:93:VAL:CG2	2.47	0.44
2:AB:82:ARG:HH11	2:AB:82:ARG:HG2	1.82	0.44
4:AD:18:LYS:HZ3	4:AD:31:CYS:CB	2.31	0.44
4:AD:94:LEU:HD11	4:AD:200:GLU:HB3	1.98	0.44
8:AH:1:MET:H3	8:AH:1:MET:CE	2.29	0.44
9:AI:43:ALA:C	9:AI:45:ALA:N	2.72	0.44
10:AJ:29:ARG:O	10:AJ:29:ARG:HD2	2.17	0.44
10:AJ:32:ALA:H	10:AJ:78:ASN:ND2	2.15	0.44
12:AL:25:LYS:HD3	12:AL:30:ARG:NH2	2.32	0.44
16:AP:40:ASP:HB3	16:AP:48:TRP:CB	2.47	0.44
18:AR:36:ASN:O	18:AR:37:VAL:C	2.60	0.44
18:AR:63:GLN:OE1	18:AR:63:GLN:HA	2.17	0.44
19:AS:11:VAL:CG2	19:AS:12:ASP:H	2.12	0.44
22:AW:8:U:O2'	22:AW:46:G:H1'	2.17	0.44
22:AW:55:U:H1'	22:AW:57:A:N7	2.32	0.44
22:AW:67:C:H2'	22:AW:68:C:C6	2.52	0.44
23:AX:19:U:H5'	23:AX:20:U:OP1	2.17	0.44
24:AY:28:ILE:HG22	24:AY:42:ARG:HD2	1.99	0.44
24:AY:77:PRO:O	24:AY:78:LYS:O	2.35	0.44
29:B4:10:VAL:HG23	29:B4:27:THR:O	2.18	0.44
33:B8:62:LEU:HD22	35:BA:242:G:C5'	2.48	0.44
35:BA:194:G:H2'	35:BA:195:A:O4'	2.17	0.44
35:BA:251:A:H5''	47:BP:51:PHE:HE2	1.82	0.44
35:BA:328:U:H4'	56:BY:68:HIS:CE1	2.52	0.44
35:BA:412:A:N7	35:BA:2411:A:H2	2.15	0.44
35:BA:500:G:N2	35:BA:502:A:H3'	2.32	0.44
35:BA:784:A:H5''	38:BD:227:ASN:ND2	2.32	0.44
35:BA:950:G:O2'	35:BA:951:C:H5'	2.18	0.44
35:BA:1114:G:H3'	35:BA:1115:G:C5'	2.42	0.44
35:BA:1544:A:H2	35:BA:1545:A:C2	2.34	0.44
35:BA:2052:G:O4'	39:BE:142:GLY:HA3	2.17	0.44
35:BA:2128:C:H2'	35:BA:2129:C:H5'	1.98	0.44
35:BA:2672:G:H3'	35:BA:2673:G:H5''	1.99	0.44
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.99	0.44
35:BA:2838:G:OP1	49:BR:8:ARG:NH1	2.48	0.44
36:BB:42:C:H2'	36:BB:43:C:C6	2.52	0.44
38:BD:35:LYS:H	38:BD:36:PRO:CD	2.18	0.44
40:BF:160:ASN:HD22	40:BF:161:GLU:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:8:LYS:O	41:BG:11:TYR:HB3	2.16	0.44
41:BG:42:GLY:O	41:BG:43:LEU:HB2	2.16	0.44
41:BG:104:GLU:O	41:BG:106:LEU:N	2.50	0.44
42:BH:18:GLU:HA	42:BH:45:VAL:HG21	1.98	0.44
42:BH:73:ALA:O	42:BH:77:LYS:HD3	2.18	0.44
42:BH:124:GLU:O	42:BH:126:PRO:HD3	2.17	0.44
45:BN:90:MET:HA	45:BN:90:MET:CE	2.41	0.44
48:BQ:89:ASN:HD22	48:BQ:89:ASN:HA	1.55	0.44
48:BQ:134:ARG:C	48:BQ:137:TYR:HD2	2.24	0.44
49:BR:50:HIS:O	49:BR:54:LEU:HB2	2.16	0.44
57:BZ:42:VAL:HG13	57:BZ:43:GLU:N	2.33	0.44
1:CA:113:G:H2'	1:CA:114:U:C6	2.51	0.44
1:CA:256:U:H2'	1:CA:257:G:C8	2.52	0.44
1:CA:556:C:O2	1:CA:556:C:H2'	2.17	0.44
1:CA:977:A:O2'	1:CA:978:A:H5'	2.17	0.44
1:CA:1115:C:O2'	1:CA:1116:C:H5'	2.17	0.44
1:CA:1379:G:O2'	1:CA:1380:U:H5'	2.16	0.44
1:CA:1461:G:O2'	1:CA:1462:G:H5'	2.18	0.44
1:CA:1511:G:H2'	1:CA:1512:U:O4'	2.18	0.44
2:CB:101:MET:HA	2:CB:108:ILE:CG2	2.46	0.44
2:CB:186:ALA:H	2:CB:200:ILE:HG22	1.82	0.44
5:CE:76:ILE:HB	5:CE:77:PRO:HD2	1.99	0.44
5:CE:137:GLU:OE2	5:CE:140:ARG:HD2	2.17	0.44
8:CH:10:LEU:N	8:CH:10:LEU:HD23	2.31	0.44
11:CK:21:ILE:CD1	11:CK:30:VAL:HG12	2.47	0.44
19:CS:80:TYR:CD1	19:CS:80:TYR:C	2.95	0.44
26:D1:34:THR:HG22	26:D1:36:GLY:H	1.82	0.44
26:D1:89:GLU:O	26:D1:90:ILE:C	2.59	0.44
27:D2:69:ARG:HG3	27:D2:69:ARG:NH1	2.29	0.44
28:D3:7:LYS:HE2	28:D3:32:GLN:HA	1.98	0.44
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.49	0.44
31:D6:36:LEU:HD23	31:D6:36:LEU:N	2.30	0.44
35:DA:664:C:H4'	35:DA:941:A:OP1	2.17	0.44
35:DA:1485:G:H2'	35:DA:1486:A:H8	1.82	0.44
35:DA:1641:A:H2'	35:DA:1642:G:O4'	2.17	0.44
35:DA:1910:G:O2'	35:DA:1911:U:H5''	2.12	0.44
35:DA:2124:G:C2'	35:DA:2125:G:H5'	2.46	0.44
35:DA:2475:C:H3'	35:DA:2475:C:H6	1.81	0.44
35:DA:2893:G:H4'	35:DA:2894:G:H8	1.82	0.44
38:DD:70:TRP:CZ3	38:DD:146:GLU:OE2	2.70	0.44
38:DD:133:LEU:C	38:DD:135:PHE:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:33:LEU:HD11	40:DF:112:MET:HB2	1.99	0.44
40:DF:125:LEU:HD21	40:DF:199:TRP:CD1	2.52	0.44
41:DG:38:VAL:CG2	41:DG:39:ILE:N	2.80	0.44
42:DH:15:VAL:HG12	42:DH:79:VAL:HG23	1.99	0.44
42:DH:20:ALA:HB3	42:DH:23:ARG:CG	2.46	0.44
42:DH:85:LYS:O	42:DH:132:ARG:CA	2.65	0.44
44:DJ:27:UNK:N	44:DJ:84:UNK:CB	2.80	0.44
44:DJ:67:UNK:C	44:DJ:69:UNK:H	2.30	0.44
46:DO:107:ARG:NH1	51:DT:35:LYS:HB2	2.32	0.44
48:DQ:60:ARG:HA	57:DZ:178:GLU:O	2.16	0.44
49:DR:50:HIS:O	49:DR:54:LEU:HB2	2.17	0.44
49:DR:85:PRO:O	49:DR:88:ARG:HB2	2.17	0.44
50:DS:28:VAL:HG12	50:DS:89:ARG:CD	2.47	0.44
53:DV:52:VAL:O	53:DV:52:VAL:HG13	2.16	0.44
56:DY:23:ARG:O	56:DY:24:VAL:C	2.60	0.44
56:DY:77:PRO:O	56:DY:78:ALA:CB	2.63	0.44
56:DY:96:ILE:HB	56:DY:99:CYS:CB	2.21	0.44
57:DZ:8:TYR:HD1	57:DZ:8:TYR:H	1.65	0.44
1:AA:81:U:H2'	1:AA:82:U:C6	2.52	0.44
1:AA:145:G:N3	1:AA:146:G:H1'	2.32	0.44
1:AA:501:C:O2'	1:AA:502:G:H5'	2.17	0.44
1:AA:579:G:H2'	1:AA:580:U:H6	1.83	0.44
1:AA:682:G:H2'	1:AA:683:G:H8	1.81	0.44
1:AA:814:A:C8	1:AA:816:A:C8	3.05	0.44
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.17	0.44
1:AA:1300:G:O2'	1:AA:1301:U:P	2.75	0.44
2:AB:61:LEU:CD1	2:AB:66:GLY:HA3	2.47	0.44
3:AC:188:LEU:HD22	3:AC:188:LEU:N	2.32	0.44
5:AE:10:MET:HA	5:AE:32:VAL:HA	1.99	0.44
5:AE:48:ALA:C	5:AE:50:GLU:H	2.25	0.44
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.82	0.44
6:AF:48:LEU:HD22	18:AR:77:GLY:HA3	1.98	0.44
7:AG:136:LYS:NZ	7:AG:136:LYS:HB3	2.32	0.44
9:AI:10:ARG:CZ	9:AI:105:ASP:HB2	2.47	0.44
10:AJ:22:LYS:O	10:AJ:26:ALA:HB3	2.18	0.44
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.32	0.44
22:AV:56:C:H1'	41:BG:76:SER:HB3	1.98	0.44
26:B1:25:LYS:C	26:B1:27:GLU:H	2.25	0.44
30:B5:51:TYR:HB3	30:B5:52:TYR:H	1.61	0.44
33:B8:33:ASN:N	33:B8:36:LYS:HD2	2.32	0.44
35:BA:27:G:H22	35:BA:512:G:C2'	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:218:A:C2	35:BA:235:U:H4'	2.52	0.44
35:BA:300:A:P	56:BY:84:ARG:HH21	2.39	0.44
35:BA:422:A:C6	35:BA:423:A:C6	3.05	0.44
35:BA:486:C:H4'	54:BW:60:ASN:HD21	1.81	0.44
35:BA:845:G:O2'	35:BA:846:C:H5	2.00	0.44
35:BA:1363:C:H2'	35:BA:1364:G:H8	1.81	0.44
35:BA:1409:C:O2'	35:BA:1410:G:H5'	2.18	0.44
35:BA:1428:C:O2'	35:BA:1569:A:OP2	2.27	0.44
35:BA:2256:G:O2'	35:BA:2257:U:H5'	2.17	0.44
35:BA:2335:A:O2'	35:BA:2336:A:H5''	2.17	0.44
35:BA:2845:G:OP1	51:BT:56:GLY:N	2.48	0.44
37:BC:80:GLY:HA2	37:BC:96:GLY:CA	2.47	0.44
40:BF:118:ALA:HB2	40:BF:123:LEU:CD2	2.47	0.44
41:BG:10:LYS:O	41:BG:14:GLU:HB3	2.18	0.44
42:BH:85:LYS:O	42:BH:132:ARG:CA	2.65	0.44
42:BH:85:LYS:O	42:BH:133:VAL:N	2.48	0.44
43:BI:1:MET:N	43:BI:20:ASP:OD1	2.49	0.44
45:BN:22:THR:HA	45:BN:61:ARG:HB2	1.98	0.44
46:BO:112:MET:O	46:BO:113:LYS:C	2.60	0.44
54:BW:110:LYS:CG	54:BW:111:HIS:H	2.23	0.44
56:BY:54:LYS:O	56:BY:55:TYR:C	2.60	0.44
57:BZ:76:LEU:HD23	57:BZ:76:LEU:HA	1.82	0.44
1:CA:197:A:N6	1:CA:221:C:H4'	2.32	0.44
1:CA:909:A:OP1	12:CL:18:LYS:NZ	2.48	0.44
1:CA:936:C:O2	1:CA:1382:C:N4	2.50	0.44
1:CA:1152:A:OP1	10:CJ:68:HIS:CD2	2.70	0.44
1:CA:1278:U:H5''	1:CA:1279:A:O4'	2.17	0.44
1:CA:1376:U:H2'	1:CA:1377:A:H8	1.81	0.44
1:CA:1395:C:O5'	1:CA:1395:C:H6	1.99	0.44
2:CB:87:ARG:NH2	2:CB:223:ILE:HD12	2.33	0.44
2:CB:170:GLU:C	2:CB:172:ILE:H	2.25	0.44
2:CB:178:ARG:CG	2:CB:178:ARG:NH1	2.77	0.44
2:CB:204:ASN:ND2	2:CB:206:ASP:H	2.16	0.44
4:CD:8:VAL:C	4:CD:10:ARG:H	2.25	0.44
5:CE:11:ILE:HB	5:CE:12:LEU:HD13	2.00	0.44
6:CF:100:ASN:HD22	18:CR:23:LYS:NZ	2.16	0.44
8:CH:91:ARG:CG	8:CH:91:ARG:NH1	2.77	0.44
9:CI:93:ARG:C	9:CI:95:LYS:H	2.25	0.44
13:CM:54:VAL:HA	13:CM:57:ARG:CD	2.47	0.44
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.82	0.44
19:CS:30:LEU:HD23	19:CS:30:LEU:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:14:A:N3	22:CW:14:A:H2'	2.32	0.44
31:D6:52:VAL:CG1	31:D6:53:LYS:N	2.77	0.44
33:D8:46:ARG:HH21	35:DA:631:A:P	2.40	0.44
35:DA:20:C:O2'	35:DA:21:A:H5'	2.17	0.44
35:DA:192:C:H2'	35:DA:193:U:H5'	1.99	0.44
35:DA:243:U:O2'	35:DA:244:A:H5'	2.17	0.44
35:DA:637:A:OP2	47:DP:115:LEU:HB2	2.17	0.44
35:DA:814:C:O2'	35:DA:815:C:H5'	2.18	0.44
35:DA:875:G:H2'	35:DA:876:C:O4'	2.18	0.44
35:DA:1257:C:OP1	40:DF:72:ARG:NH2	2.50	0.44
35:DA:1679:U:O2'	35:DA:1680:U:H5'	2.17	0.44
35:DA:1858:G:N2	35:DA:1883:G:H2'	2.32	0.44
35:DA:2199:A:OP2	35:DA:2200:C:H5	2.00	0.44
35:DA:2733:A:H2'	35:DA:2734:A:O4'	2.18	0.44
35:DA:2810:A:H2'	39:DE:61:ARG:CZ	2.47	0.44
38:DD:92:ILE:HA	38:DD:107:ALA:H	1.83	0.44
39:DE:65:GLY:HA2	39:DE:70:ALA:HB1	1.98	0.44
39:DE:115:GLY:HA2	39:DE:157:ALA:CB	2.47	0.44
39:DE:178:GLU:N	39:DE:178:GLU:OE1	2.49	0.44
41:DG:64:THR:C	41:DG:66:GLN:H	2.26	0.44
43:DI:102:SER:HB3	43:DI:109:ILE:CB	2.44	0.44
44:DJ:15:UNK:CB	44:DJ:66:UNK:HA	2.47	0.44
50:DS:64:GLU:HA	50:DS:67:ARG:HB3	1.99	0.44
50:DS:88:ASP:OD2	50:DS:89:ARG:N	2.50	0.44
57:DZ:31:ARG:NH1	57:DZ:94:GLU:OE2	2.50	0.44
57:DZ:109:ALA:CB	57:DZ:146:ILE:HG13	2.46	0.44
1:AA:15:G:C4	1:AA:16:A:C8	3.06	0.44
1:AA:184:G:H2'	1:AA:185:A:C8	2.51	0.44
1:AA:397:A:N7	1:AA:548:G:C8	2.86	0.44
1:AA:580:U:H2'	1:AA:581:G:O4'	2.17	0.44
1:AA:678:U:H2'	1:AA:679:C:H6	1.79	0.44
1:AA:859:A:H2'	1:AA:860:A:O4'	2.18	0.44
1:AA:948:C:O2'	1:AA:949:A:H5'	2.18	0.44
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.31	0.44
1:AA:1130:A:N6	1:AA:1143:G:N2	2.66	0.44
1:AA:1163:C:H2'	1:AA:1164:G:C8	2.46	0.44
1:AA:1168:A:H2'	1:AA:1169:A:O4'	2.17	0.44
2:AB:17:PHE:HB3	2:AB:44:LEU:HD11	1.99	0.44
2:AB:24:TRP:H	2:AB:24:TRP:HD1	1.64	0.44
3:AC:6:HIS:CD2	3:AC:7:PRO:HD2	2.50	0.44
3:AC:22:TRP:HE3	3:AC:23:TYR:O	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:90:GLU:HA	3:AC:93:LYS:HZ3	1.82	0.44
4:AD:17:VAL:HG11	4:AD:197:PRO:HB2	1.99	0.44
4:AD:36:ARG:HG2	4:AD:36:ARG:HH11	1.82	0.44
13:AM:96:LEU:HD12	13:AM:96:LEU:N	2.33	0.44
16:AP:70:ALA:HA	16:AP:73:LEU:HD13	1.99	0.44
17:AQ:31:LEU:O	17:AQ:31:LEU:HD12	2.17	0.44
20:AT:16:HIS:O	20:AT:19:SER:HB3	2.17	0.44
20:AT:51:GLU:O	20:AT:54:LYS:HB3	2.17	0.44
21:AU:6:ARG:NE	21:AU:15:ARG:HH12	2.15	0.44
25:B0:23:VAL:HB	25:B0:26:TYR:CE2	2.52	0.44
27:B2:56:GLN:O	27:B2:60:LEU:HG	2.17	0.44
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.99	0.44
28:B3:26:LEU:O	28:B3:35:ARG:NE	2.48	0.44
29:B4:47:GLN:O	29:B4:48:ARG:CB	2.65	0.44
35:BA:242:G:N2	35:BA:254:G:H2'	2.32	0.44
35:BA:285:C:O2'	35:BA:286:C:H5'	2.17	0.44
35:BA:588:U:H1'	40:BF:90:PHE:CG	2.52	0.44
35:BA:661:C:H2'	35:BA:662:G:H8	1.83	0.44
35:BA:709:U:H2'	35:BA:710:G:C8	2.53	0.44
35:BA:995:C:O2	45:BN:4:TYR:OH	2.31	0.44
35:BA:1241:A:O2'	35:BA:1242:A:H5'	2.17	0.44
35:BA:1528(A):A:C6	35:BA:1529:G:C8	3.05	0.44
35:BA:2257:U:O2'	35:BA:2258:C:H5'	2.17	0.44
37:BC:68:LEU:HD12	37:BC:162:GLU:O	2.17	0.44
37:BC:82:LYS:O	37:BC:86:ALA:HB3	2.17	0.44
38:BD:70:TRP:CZ3	38:BD:150:LYS:HA	2.52	0.44
38:BD:113:VAL:HG12	38:BD:114:GLY:H	1.81	0.44
39:BE:119:ARG:CD	39:BE:120:TRP:CE2	3.01	0.44
40:BF:32:LEU:HD22	40:BF:112:MET:HE3	2.00	0.44
40:BF:37:VAL:HG13	40:BF:184:TYR:CD1	2.49	0.44
40:BF:68:LYS:C	40:BF:70:THR:N	2.76	0.44
41:BG:63:ILE:HD13	41:BG:144:ILE:CD1	2.39	0.44
41:BG:96:ARG:CG	41:BG:97:ASP:H	2.30	0.44
42:BH:15:VAL:HG12	42:BH:79:VAL:HG23	1.99	0.44
42:BH:116:GLU:OE1	42:BH:117:PRO:HD2	2.16	0.44
43:BI:15:VAL:HG22	43:BI:16:GLY:N	2.32	0.44
49:BR:82:GLU:OE2	49:BR:82:GLU:N	2.50	0.44
51:BT:23:ARG:HH21	51:BT:120:ARG:CD	2.29	0.44
52:BU:60:LEU:HD22	52:BU:60:LEU:O	2.17	0.44
53:BV:98:GLU:OE1	53:BV:100:ARG:NH1	2.50	0.44
56:BY:54:LYS:HE3	56:BY:55:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:128:VAL:HG22	57:BZ:129:SER:N	2.33	0.44
1:CA:56:U:H2'	1:CA:57:G:H8	1.82	0.44
1:CA:67:C:H2'	1:CA:68:G:H8	1.83	0.44
1:CA:624:C:C5'	16:CP:10:GLY:O	2.64	0.44
1:CA:957:U:H4'	19:CS:79:THR:HB	1.99	0.44
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.81	0.44
1:CA:1148:U:H4'	9:CI:16:ARG:HD2	1.99	0.44
1:CA:1329:A:H2'	1:CA:1330:U:O4'	2.17	0.44
1:CA:1408:A:O2'	35:DA:1916:A:N6	2.50	0.44
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.17	0.44
2:CB:17:PHE:CD2	2:CB:17:PHE:C	2.93	0.44
3:CC:45:LYS:HB2	3:CC:46:GLU:OE2	2.16	0.44
4:CD:22:LYS:O	4:CD:113:SER:HB3	2.17	0.44
4:CD:98:GLU:O	4:CD:103:ASN:ND2	2.51	0.44
4:CD:170:VAL:CG1	4:CD:174:LEU:HB2	2.47	0.44
5:CE:6:PHE:HB2	5:CE:34:VAL:CG2	2.48	0.44
8:CH:29:SER:C	8:CH:31:PHE:N	2.74	0.44
12:CL:98:VAL:O	12:CL:99:ARG:C	2.60	0.44
13:CM:65:LYS:HA	13:CM:66:LEU:N	2.31	0.44
13:CM:69:GLU:OE2	13:CM:73:GLU:HB2	2.17	0.44
13:CM:96:LEU:HD12	13:CM:96:LEU:N	2.32	0.44
15:CO:54:ARG:O	15:CO:57:LEU:HB2	2.17	0.44
17:CQ:92:ARG:HG3	17:CQ:95:TYR:CE2	2.48	0.44
18:CR:32:ARG:HG2	18:CR:65:ILE:CG2	2.48	0.44
21:CU:22:ARG:O	21:CU:23:PRO:C	2.61	0.44
26:D1:29:GLY:C	26:D1:30:VAL:HG22	2.43	0.44
33:D8:56:GLU:C	33:D8:59:LYS:HZ1	2.25	0.44
35:DA:300:A:OP1	56:DY:84:ARG:NH2	2.50	0.44
35:DA:413:C:H4'	35:DA:1880:C:O2'	2.18	0.44
35:DA:438:G:O2'	35:DA:440:G:H5'	2.17	0.44
35:DA:508:G:O2'	35:DA:509:C:P	2.75	0.44
35:DA:772:C:O2'	35:DA:773:U:H5'	2.18	0.44
35:DA:1176:G:O2'	35:DA:1177:A:H5'	2.18	0.44
35:DA:1913:A:OP2	35:DA:1914:C:OP1	2.34	0.44
35:DA:2019:A:C4'	52:DU:34:LYS:HD2	2.46	0.44
35:DA:2410:G:N2	35:DA:2411:A:H1'	2.32	0.44
35:DA:2682:U:O4	35:DA:2728:U:H1'	2.17	0.44
37:DC:146:GLY:O	37:DC:147:PHE:C	2.60	0.44
39:DE:77:ILE:CG2	39:DE:78:LEU:H	2.13	0.44
40:DF:3:GLU:O	40:DF:19:GLU:HA	2.17	0.44
40:DF:64:ILE:HG23	40:DF:65:TRP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:68:LYS:HD3	40:DF:68:LYS:HA	1.75	0.44
41:DG:171:ALA:O	41:DG:173:LEU:N	2.50	0.44
42:DH:137:ASP:HB3	42:DH:140:LYS:HB2	1.99	0.44
43:DI:123:LEU:HD21	43:DI:144:VAL:HG13	1.99	0.44
45:DN:5:VAL:O	45:DN:5:VAL:HG13	2.17	0.44
47:DP:100:LEU:H	47:DP:100:LEU:CD2	2.29	0.44
48:DQ:38:GLU:HG3	48:DQ:127:ILE:HG22	1.99	0.44
51:DT:20:PRO:HD2	51:DT:85:LYS:HD3	2.00	0.44
51:DT:38:ASN:ND2	51:DT:39:ARG:N	2.66	0.44
52:DU:92:ARG:CD	52:DU:94:ASN:HB3	2.47	0.44
55:DX:11:PRO:HB3	55:DX:92:LEU:CD2	2.47	0.44
55:DX:25:LYS:HG2	55:DX:80:ILE:HD11	1.99	0.44
56:DY:15:VAL:HG12	56:DY:15:VAL:O	2.16	0.44
56:DY:54:LYS:O	56:DY:55:TYR:C	2.60	0.44
57:DZ:28:MET:O	57:DZ:28:MET:SD	2.75	0.44
57:DZ:151:HIS:O	57:DZ:152:ALA:C	2.61	0.44
1:AA:18:C:P	5:AE:127:ASN:HD21	2.41	0.44
1:AA:256:U:H2'	1:AA:257:G:C8	2.52	0.44
1:AA:491:G:O2'	1:AA:492:G:H5'	2.17	0.44
1:AA:538:G:H5''	12:AL:111:LYS:HD3	1.98	0.44
1:AA:599:C:H4'	8:AH:130:GLY:C	2.42	0.44
1:AA:758:G:C5'	1:AA:880:C:H1'	2.47	0.44
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.18	0.44
1:AA:1121:U:O2'	1:AA:1122:U:H5'	2.18	0.44
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.16	0.44
2:AB:144:ARG:HA	2:AB:147:LYS:CB	2.43	0.44
3:AC:6:HIS:NE2	3:AC:184:TYR:CD2	2.86	0.44
3:AC:182:ILE:HG23	3:AC:202:ILE:N	2.33	0.44
3:AC:206:GLU:O	3:AC:207:VAL:C	2.61	0.44
8:AH:97:VAL:O	8:AH:100:ILE:HG13	2.18	0.44
11:AK:99:GLN:HA	11:AK:105:VAL:HG13	1.99	0.44
12:AL:30:ARG:HD3	12:AL:59:SER:HB3	1.99	0.44
17:AQ:10:VAL:HG13	17:AQ:19:VAL:HB	2.00	0.44
17:AQ:84:LEU:O	17:AQ:85:VAL:C	2.60	0.44
22:AV:1:C:O2'	25:B0:6:GLY:O	2.36	0.44
24:AY:15:THR:HG22	24:AY:16:GLU:HA	1.99	0.44
24:AY:31:THR:HG21	24:AY:53:GLU:OE1	2.17	0.44
30:B5:55:ARG:HG3	30:B5:56:LYS:N	2.32	0.44
35:BA:45:C:OP2	35:BA:215:G:H2'	2.17	0.44
35:BA:154(A):C:H5	35:BA:171:G:N1	2.14	0.44
35:BA:517:C:O2'	54:BW:18:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1029:A:H8	35:BA:1029:A:O5'	2.00	0.44
35:BA:2126:A:O2'	35:BA:2127:G:OP2	2.28	0.44
35:BA:2182:G:O2'	35:BA:2183:C:H5'	2.17	0.44
35:BA:2300:G:H1	35:BA:2316:C:N4	2.16	0.44
35:BA:2810:A:H2'	39:BE:61:ARG:CZ	2.47	0.44
38:BD:2:ALA:O	38:BD:3:VAL:CB	2.65	0.44
38:BD:147:LEU:HD12	38:BD:155:LEU:CD2	2.48	0.44
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.83	0.44
40:BF:2:LYS:HG3	40:BF:25:PRO:HG3	1.99	0.44
41:BG:43:LEU:HB3	41:BG:88:ILE:HG22	1.98	0.44
42:BH:7:LEU:HD12	42:BH:7:LEU:HA	1.41	0.44
43:BI:58:LEU:C	43:BI:60:GLU:H	2.25	0.44
43:BI:71:ILE:HG13	43:BI:72:LEU:HG	1.98	0.44
43:BI:90:GLY:C	43:BI:92:VAL:H	2.24	0.44
43:BI:97:ILE:HG12	43:BI:140:LEU:HD11	1.99	0.44
46:BO:97:ARG:HA	46:BO:117:LEU:CD2	2.47	0.44
47:BP:97:PRO:C	47:BP:98:GLU:HG3	2.42	0.44
47:BP:100:LEU:H	47:BP:100:LEU:CD2	2.31	0.44
48:BQ:28:ALA:C	48:BQ:29:PHE:CD1	2.96	0.44
50:BS:17:ARG:HA	50:BS:20:ARG:NH2	2.32	0.44
50:BS:99:LYS:HD2	50:BS:99:LYS:N	2.18	0.44
53:BV:19:LYS:C	53:BV:20:LEU:HD12	2.42	0.44
53:BV:45:THR:C	53:BV:46:VAL:HG12	2.43	0.44
54:BW:34:ASN:O	54:BW:35:ILE:C	2.60	0.44
56:BY:31:LEU:CB	56:BY:32:PRO:CA	2.95	0.44
57:BZ:48:PHE:C	57:BZ:48:PHE:CD1	2.95	0.44
1:CA:460:G:O6	1:CA:470:C:H5''	2.18	0.44
1:CA:540:G:H2'	1:CA:541:G:O4'	2.16	0.44
1:CA:572:A:C4'	1:CA:917:G:C4'	2.96	0.44
1:CA:683:G:H2'	1:CA:684:A:H8	1.83	0.44
1:CA:697:U:H2'	1:CA:698:G:H5'	1.98	0.44
1:CA:881:G:P	12:CL:9:ARG:HH22	2.40	0.44
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.99	0.44
1:CA:1413:A:H61	1:CA:1488:G:N2	2.16	0.44
2:CB:44:LEU:N	2:CB:44:LEU:CD2	2.79	0.44
2:CB:61:LEU:CD1	2:CB:66:GLY:HA3	2.48	0.44
2:CB:105:PHE:HZ	2:CB:156:LYS:HA	1.81	0.44
2:CB:142:LEU:O	2:CB:143:GLU:C	2.60	0.44
2:CB:178:ARG:HH21	8:CH:74:PRO:CG	2.31	0.44
5:CE:126:ARG:HG3	5:CE:126:ARG:NH1	2.32	0.44
6:CF:8:ILE:HG22	6:CF:10:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:20:TYR:HD1	8:CH:65:TYR:CE2	2.35	0.44
13:CM:35:GLU:C	13:CM:37:THR:H	2.25	0.44
18:CR:22:VAL:HG23	18:CR:55:ARG:O	2.16	0.44
19:CS:43:GLU:O	19:CS:44:MET:HE3	2.17	0.44
20:CT:56:MET:SD	20:CT:85:MET:HB3	2.57	0.44
20:CT:96:GLY:O	20:CT:97:ALA:HB3	2.17	0.44
22:CV:71:C:O2'	22:CV:72:A:H5'	2.17	0.44
26:D1:64:ALA:O	26:D1:66:HIS:N	2.50	0.44
35:DA:93:G:H2'	35:DA:94:C:C6	2.52	0.44
35:DA:299:A:N1	35:DA:322:A:O2'	2.38	0.44
35:DA:360:G:H2'	35:DA:361:G:H8	1.81	0.44
35:DA:542:C:C2'	35:DA:543:C:OP1	2.66	0.44
35:DA:610:G:H2'	35:DA:611:C:H6	1.79	0.44
35:DA:833:U:H2'	35:DA:834:C:H6	1.79	0.44
35:DA:847:U:H2'	35:DA:848:G:H5''	1.99	0.44
35:DA:857:C:N3	35:DA:858:U:C5	2.86	0.44
35:DA:1036:G:O2'	35:DA:1037:G:H5'	2.17	0.44
35:DA:1835:G:H2'	35:DA:1836:C:C6	2.53	0.44
35:DA:1844:C:O2'	35:DA:1845:G:H5'	2.17	0.44
35:DA:1913:A:C3'	35:DA:1913:A:P	3.06	0.44
35:DA:2274:A:C5	35:DA:2276:G:C8	3.05	0.44
36:DB:65:C:H2'	36:DB:66:A:H5'	2.00	0.44
37:DC:68:LEU:HD12	37:DC:162:GLU:O	2.17	0.44
38:DD:11:PRO:O	38:DD:13:ARG:N	2.48	0.44
40:DF:8:GLN:HB2	40:DF:124:LEU:HD11	1.98	0.44
40:DF:108:LYS:O	40:DF:112:MET:HG3	2.16	0.44
41:DG:63:ILE:HD12	41:DG:141:PHE:CE1	2.52	0.44
42:DH:73:ALA:O	42:DH:77:LYS:HD3	2.17	0.44
42:DH:83:TYR:O	42:DH:84:SER:CB	2.65	0.44
43:DI:6:LEU:O	43:DI:8:PRO:N	2.51	0.44
43:DI:81:VAL:HB	43:DI:89:TYR:O	2.18	0.44
43:DI:105:HIS:HB3	43:DI:106:GLY:H	1.62	0.44
48:DQ:12:GLN:NE2	48:DQ:73:PRO:HD3	2.24	0.44
52:DU:69:CYS:SG	52:DU:79:PHE:CB	3.06	0.44
54:DW:15:ARG:HA	54:DW:18:ARG:HD2	1.99	0.44
54:DW:46:PHE:O	54:DW:50:VAL:HG12	2.18	0.44
56:DY:38:ILE:CG2	56:DY:39:VAL:N	2.80	0.44
56:DY:81:LYS:HE2	56:DY:97:ARG:NH2	2.32	0.44
57:DZ:149:SER:HB2	57:DZ:173:ALA:CB	2.47	0.44
1:AA:218:C:O2'	1:AA:219:C:H5'	2.18	0.44
1:AA:411:A:H62	1:AA:413:G:H21	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:658:G:C5	1:AA:659:U:C5	3.05	0.44
1:AA:1263:C:N4	1:AA:1272:G:H1	2.15	0.44
1:AA:1265:G:C2	1:AA:1266:G:H1'	2.52	0.44
1:AA:1286:A:N6	21:AU:18:TYR:OH	2.50	0.44
1:AA:1303:C:OP1	1:AA:1304:G:OP2	2.36	0.44
2:AB:46:LYS:HD2	2:AB:46:LYS:N	2.31	0.44
2:AB:87:ARG:NH2	2:AB:223:ILE:HD12	2.32	0.44
2:AB:170:GLU:C	2:AB:172:ILE:H	2.26	0.44
3:AC:95:THR:HG22	3:AC:97:LYS:HG3	1.99	0.44
4:AD:112:VAL:HG12	4:AD:116:GLN:CD	2.42	0.44
7:AG:84:ASN:HB2	22:AW:33:U:H4'	1.99	0.44
8:AH:85:ARG:CZ	8:AH:87:SER:O	2.66	0.44
10:AJ:44:VAL:HG11	10:AJ:46:ARG:NH2	2.32	0.44
11:AK:32:ILE:O	11:AK:40:ILE:HG12	2.17	0.44
12:AL:61:TYR:HD1	12:AL:61:TYR:H	1.65	0.44
13:AM:86:CYS:HA	19:AS:73:GLU:O	2.17	0.44
16:AP:25:ARG:O	16:AP:26:ARG:C	2.60	0.44
17:AQ:81:ARG:C	17:AQ:83:ASP:N	2.76	0.44
19:AS:43:GLU:HB3	19:AS:44:MET:HE1	1.99	0.44
19:AS:62:ILE:HG13	19:AS:66:MET:HE2	2.00	0.44
19:AS:80:TYR:CD1	19:AS:80:TYR:C	2.95	0.44
24:AY:35:ASN:HD22	24:AY:35:ASN:HA	1.60	0.44
24:AY:38:GLY:CA	24:AY:39:LYS:CD	2.88	0.44
27:B2:37:PHE:HZ	55:BX:8:ILE:HG21	1.83	0.44
35:BA:272(J):C:H5	35:BA:274:G:C6	2.35	0.44
35:BA:322:A:OP2	40:BF:169:ASN:HB2	2.18	0.44
35:BA:530:G:C5	35:BA:2022:U:H5''	2.52	0.44
35:BA:614:U:H3'	35:BA:614(A):U:C6	2.52	0.44
35:BA:912:C:H2'	35:BA:913:U:C6	2.52	0.44
35:BA:999:U:H5''	35:BA:1154:G:O6	2.18	0.44
35:BA:1464:C:H1'	35:BA:1528(A):A:N3	2.33	0.44
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.53	0.44
35:BA:1563:G:H2'	35:BA:1564:C:C6	2.44	0.44
35:BA:1904:G:C2'	35:BA:1905:C:H5'	2.46	0.44
35:BA:2277:G:C2'	35:BA:2278:A:H5'	2.48	0.44
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.99	0.44
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.81	0.44
36:BB:65:C:H2'	36:BB:66:A:H5'	1.99	0.44
37:BC:47:LEU:HD23	37:BC:47:LEU:N	2.32	0.44
38:BD:44:ASN:HB3	38:BD:49:ILE:CA	2.40	0.44
38:BD:92:ILE:HA	38:BD:107:ALA:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:203:LYS:HG3	39:BE:204:ALA:N	2.32	0.44
41:BG:33:ARG:HG2	41:BG:33:ARG:NH1	2.33	0.44
43:BI:120:ILE:HG22	43:BI:122:GLU:H	1.82	0.44
47:BP:112:LEU:C	47:BP:112:LEU:CD2	2.88	0.44
48:BQ:109:VAL:O	48:BQ:110:THR:O	2.35	0.44
50:BS:66:ALA:C	50:BS:69:VAL:HG12	2.42	0.44
51:BT:55:ASN:H	51:BT:59:THR:HB	1.83	0.44
53:BV:1:MET:HE2	53:BV:1:MET:HA	1.99	0.44
54:BW:62:HIS:O	54:BW:64:MET:HG3	2.17	0.44
55:BX:12:VAL:HG23	55:BX:17:ALA:CB	2.47	0.44
57:BZ:96:VAL:HG22	57:BZ:97:GLU:H	1.83	0.44
1:CA:403:C:O2'	1:CA:404:U:H5'	2.18	0.44
1:CA:449:C:O2	16:CP:42:ARG:HD2	2.17	0.44
1:CA:669:U:O2'	1:CA:670:G:H5'	2.17	0.44
1:CA:935:A:H2'	1:CA:936:C:C6	2.53	0.44
1:CA:1415:G:C5	1:CA:1486:G:N1	2.85	0.44
2:CB:172:ILE:O	2:CB:176:GLU:HG2	2.16	0.44
3:CC:177:THR:HB	3:CC:180:ALA:HB2	1.99	0.44
4:CD:12:CYS:O	4:CD:33:MET:HE2	2.16	0.44
4:CD:191:ARG:HG3	4:CD:191:ARG:NH1	2.32	0.44
5:CE:10:MET:HA	5:CE:32:VAL:HA	1.98	0.44
6:CF:46:ARG:NH2	18:CR:37:VAL:HG23	2.32	0.44
9:CI:107:ARG:HD3	9:CI:107:ARG:H	1.82	0.44
10:CJ:28:ARG:CA	10:CJ:34:VAL:HG23	2.44	0.44
10:CJ:100:THR:CG2	10:CJ:101:VAL:N	2.80	0.44
11:CK:57:THR:O	11:CK:60:ALA:HB3	2.17	0.44
17:CQ:87:LYS:NZ	17:CQ:87:LYS:CB	2.80	0.44
18:CR:24:ALA:C	18:CR:26:LEU:H	2.25	0.44
18:CR:36:ASN:O	18:CR:37:VAL:C	2.60	0.44
22:CV:47:U:H3'	22:CV:48:C:H5'	2.00	0.44
24:CY:14:LYS:HB2	24:CY:14:LYS:HE3	1.58	0.44
29:D4:35:VAL:HG21	41:DG:113:ARG:NH1	2.32	0.44
30:D5:17:ASP:O	30:D5:18:ALA:C	2.60	0.44
30:D5:57:VAL:HG23	30:D5:58:LEU:H	1.82	0.44
35:DA:196:A:H2'	35:DA:196:A:N3	2.32	0.44
35:DA:218:A:C2	35:DA:235:U:H4'	2.52	0.44
35:DA:533:G:H5'	52:DU:24:TYR:CD2	2.53	0.44
35:DA:606:U:H4'	35:DA:658:C:H4'	2.00	0.44
35:DA:1441:G:H2'	35:DA:1442:G:C8	2.52	0.44
35:DA:1494:A:H1'	35:DA:1496:A:C2	2.52	0.44
35:DA:2262:U:H4'	35:DA:2328:A:C2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2632:A:H2	39:DE:61:ARG:HD2	1.81	0.44
35:DA:2832:U:H4'	35:DA:2833:G:H5''	1.98	0.44
35:DA:2870:C:H2'	35:DA:2871:C:O4'	2.17	0.44
38:DD:43:ARG:NH1	38:DD:44:ASN:HD21	2.11	0.44
38:DD:271:ILE:O	38:DD:272:ALA:HB2	2.17	0.44
40:DF:68:LYS:C	40:DF:70:THR:N	2.74	0.44
41:DG:53:LEU:N	41:DG:53:LEU:CD2	2.80	0.44
42:DH:24:VAL:HG11	42:DH:72:ILE:CD1	2.47	0.44
43:DI:130:TYR:O	43:DI:131:LYS:HG2	2.17	0.44
49:DR:111:LEU:HD23	49:DR:111:LEU:HA	1.76	0.44
50:DS:28:VAL:HG12	50:DS:29:PHE:N	2.33	0.44
51:DT:31:SER:OG	51:DT:32:TYR:N	2.48	0.44
51:DT:80:SER:CB	51:DT:81:PRO:CD	2.94	0.44
52:DU:91:ASP:CG	52:DU:96:ALA:HB2	2.42	0.44
53:DV:2:PHE:HB3	53:DV:3:ALA:H	1.49	0.44
53:DV:35:LEU:HB2	53:DV:57:VAL:HG13	1.98	0.44
53:DV:62:LEU:HD21	53:DV:95:LEU:HB2	1.99	0.44
54:DW:71:VAL:HA	54:DW:107:LEU:HD12	1.98	0.44
56:DY:45:VAL:CG1	56:DY:60:PHE:HB3	2.40	0.44
1:AA:509:A:H5'	4:AD:54:TYR:CD2	2.53	0.44
1:AA:1097:C:O4'	1:AA:1170:A:H4'	2.18	0.44
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.81	0.44
2:AB:36:ARG:O	2:AB:37:ASN:HB3	2.17	0.44
3:AC:164:ARG:NH2	3:AC:166:GLU:OE1	2.50	0.44
5:AE:76:ILE:CB	5:AE:77:PRO:HD2	2.48	0.44
5:AE:137:GLU:OE2	5:AE:140:ARG:HD2	2.18	0.44
7:AG:57:GLU:N	7:AG:57:GLU:OE1	2.50	0.44
7:AG:80:VAL:C	7:AG:82:GLY:N	2.74	0.44
9:AI:45:ALA:O	9:AI:78:LYS:HE3	2.18	0.44
13:AM:91:ARG:C	13:AM:98:VAL:HG22	2.42	0.44
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.65	0.44
19:AS:41:VAL:O	19:AS:44:MET:SD	2.76	0.44
20:AT:18:GLN:O	20:AT:19:SER:C	2.61	0.44
20:AT:84:LEU:C	20:AT:84:LEU:CD1	2.90	0.44
21:AU:12:LYS:HB3	21:AU:17:THR:O	2.18	0.44
21:AU:18:TYR:CD2	21:AU:24:ARG:HA	2.49	0.44
23:AX:14:A:N6	23:AX:15:A:C5	2.86	0.44
24:AY:83:LEU:C	24:AY:84:LYS:CG	2.90	0.44
26:B1:41:ARG:NH1	26:B1:43:TYR:HE2	2.16	0.44
28:B3:28:LEU:N	28:B3:28:LEU:CD2	2.80	0.44
29:B4:3:GLU:CD	29:B4:3:GLU:N	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:80:G:C2'	35:BA:81:G:H5'	2.47	0.44
35:BA:1176:G:O2'	35:BA:1177:A:H5'	2.18	0.44
35:BA:1230:C:O2'	35:BA:1231:G:H5'	2.17	0.44
35:BA:1771:C:H1'	35:BA:1786:A:C8	2.53	0.44
35:BA:1796:U:H2'	35:BA:1797:C:H6	1.82	0.44
35:BA:2514:U:O2'	35:BA:2515:C:H5'	2.17	0.44
35:BA:2667:C:H2'	35:BA:2668:G:O4'	2.18	0.44
35:BA:2789:C:O2'	35:BA:2790:A:H1'	2.17	0.44
36:BB:35:U:H2'	36:BB:36:C:O4'	2.17	0.44
36:BB:89:G:C6	36:BB:90:A:N6	2.86	0.44
38:BD:75:ILE:O	38:BD:118:VAL:HG23	2.17	0.44
38:BD:181:GLU:HA	38:BD:272:ALA:HB1	1.97	0.44
38:BD:215:LEU:CD1	38:BD:217:ARG:HH21	2.30	0.44
39:BE:34:VAL:HG12	39:BE:48:GLN:O	2.18	0.44
40:BF:122:LYS:HD2	40:BF:191:ARG:HG2	2.00	0.44
40:BF:131:GLY:O	40:BF:132:VAL:O	2.36	0.44
45:BN:46:VAL:HG13	45:BN:48:MET:HG2	1.98	0.44
47:BP:101:VAL:CG1	47:BP:106:LEU:HD23	2.42	0.44
48:BQ:37:LEU:O	48:BQ:99:PRO:HB3	2.18	0.44
48:BQ:54:MET:HB3	48:BQ:64:ILE:HD13	1.99	0.44
48:BQ:110:THR:HG23	48:BQ:113:GLN:HB2	2.00	0.44
49:BR:30:THR:O	49:BR:30:THR:HG22	2.18	0.44
50:BS:93:LYS:O	50:BS:94:TYR:C	2.59	0.44
51:BT:28:VAL:O	51:BT:29:ARG:CB	2.66	0.44
53:BV:100:ARG:O	53:BV:100:ARG:CD	2.63	0.44
55:BX:11:PRO:HB3	55:BX:92:LEU:CD2	2.47	0.44
55:BX:23:GLU:O	55:BX:25:LYS:N	2.49	0.44
57:BZ:4:ARG:NH1	57:BZ:60:GLU:OE2	2.50	0.44
57:BZ:54:HIS:CG	57:BZ:101:PRO:HG3	2.52	0.44
57:BZ:63:ASP:O	57:BZ:65:GLN:HG3	2.18	0.44
1:CA:10:A:H2'	1:CA:11:G:H8	1.81	0.44
1:CA:15:G:N1	1:CA:921:U:C2	2.86	0.44
1:CA:37:U:C4	1:CA:38:G:C6	3.04	0.44
1:CA:129(A):G:C2	1:CA:189(F):U:H5''	2.53	0.44
1:CA:599:C:H4'	8:CH:130:GLY:C	2.42	0.44
1:CA:624:C:H5'	16:CP:11:SER:OG	2.18	0.44
1:CA:814:A:C8	1:CA:816:A:C8	3.06	0.44
1:CA:997:U:O5'	1:CA:997:U:H6	2.01	0.44
1:CA:1206:G:C6	1:CA:1207:G:C4	3.06	0.44
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.53	0.44
1:CA:1434:A:N6	1:CA:1435:G:N2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:79:ARG:HG3	3:CC:79:ARG:NH1	2.33	0.44
7:CG:49:ILE:CA	7:CG:52:GLU:HG2	2.48	0.44
8:CH:30:ARG:HB3	8:CH:30:ARG:CZ	2.48	0.44
8:CH:104:ARG:C	8:CH:106:GLY:H	2.26	0.44
9:CI:53:VAL:CG2	9:CI:54:ASP:N	2.81	0.44
10:CJ:49:VAL:HG22	10:CJ:50:ILE:N	2.33	0.44
13:CM:97:PRO:HB2	13:CM:101:GLN:NE2	2.32	0.44
17:CQ:16:GLN:O	17:CQ:17:LYS:HB2	2.16	0.44
17:CQ:88:TYR:HA	17:CQ:91:ARG:HH12	1.83	0.44
21:CU:6:ARG:NE	21:CU:15:ARG:HH12	2.14	0.44
35:DA:71:A:H5'	35:DA:71:A:C8	2.53	0.44
35:DA:259:G:N2	35:DA:621:A:H8	2.12	0.44
35:DA:478:A:N1	35:DA:500:G:H4'	2.31	0.44
35:DA:640:C:H2'	35:DA:641:C:H6	1.79	0.44
35:DA:1138:G:H2'	35:DA:1139:G:O4'	2.17	0.44
35:DA:1643:G:C2'	35:DA:1644:C:O5'	2.64	0.44
35:DA:1854:A:H62	35:DA:1888:G:H8	1.65	0.44
35:DA:1904:G:C2'	35:DA:1905:C:H5'	2.47	0.44
35:DA:1911:U:C2'	35:DA:1912:A:O5'	2.65	0.44
35:DA:2377:A:H4'	50:DS:107:GLU:HG2	1.99	0.44
35:DA:2849:U:OP2	51:DT:95:ARG:NH1	2.51	0.44
36:DB:4:C:H2'	36:DB:5:C:C6	2.52	0.44
36:DB:5:C:C2	36:DB:117:G:N2	2.85	0.44
38:DD:3:VAL:HG12	38:DD:17:THR:HB	2.00	0.44
38:DD:131:LEU:O	38:DD:132:PRO:C	2.59	0.44
38:DD:221:VAL:HG23	38:DD:226:MET:CE	2.40	0.44
39:DE:52:LEU:C	39:DE:74:PRO:HB3	2.43	0.44
39:DE:186:GLY:O	39:DE:187:ALA:CB	2.63	0.44
40:DF:52:LYS:HB3	40:DF:56:GLU:HB2	2.00	0.44
41:DG:75:LYS:O	41:DG:84:LYS:HG3	2.17	0.44
41:DG:138:GLN:HE22	41:DG:153:ARG:CZ	2.30	0.44
42:DH:7:LEU:HB3	42:DH:65:HIS:NE2	2.31	0.44
45:DN:69:GLN:HE21	45:DN:69:GLN:HB3	1.50	0.44
47:DP:85:LEU:HD23	47:DP:88:LEU:CD2	2.47	0.44
50:DS:16:ASN:C	50:DS:18:ILE:N	2.76	0.44
51:DT:9:LEU:O	51:DT:11:GLU:N	2.50	0.44
52:DU:101:ARG:C	52:DU:102:GLU:HG2	2.43	0.44
54:DW:32:ALA:O	54:DW:33:ARG:C	2.60	0.44
56:DY:26:LYS:CG	56:DY:27:VAL:H	2.23	0.44
56:DY:28:LYS:HZ2	56:DY:28:LYS:CA	2.27	0.44
1:AA:10:A:H2'	1:AA:11:G:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.53	0.44
1:AA:503:C:OP2	12:AL:113:SER:OG	2.32	0.44
1:AA:638:G:O2'	1:AA:639:G:H5'	2.17	0.44
2:AB:74:LYS:HG2	2:AB:165:VAL:HG21	1.99	0.44
3:AC:42:LEU:HA	3:AC:45:LYS:HE3	1.98	0.44
3:AC:130:VAL:CG1	3:AC:153:VAL:HG21	2.48	0.44
4:AD:13:ARG:O	4:AD:16:GLY:N	2.45	0.44
7:AG:145:ALA:O	7:AG:146:GLU:CB	2.66	0.44
11:AK:43:SER:O	11:AK:44:SER:HB3	2.18	0.44
12:AL:80:VAL:CG2	12:AL:81:LEU:N	2.81	0.44
13:AM:8:GLU:OE1	13:AM:8:GLU:N	2.42	0.44
13:AM:54:VAL:HA	13:AM:57:ARG:CD	2.47	0.44
16:AP:3:LYS:O	16:AP:21:VAL:HA	2.17	0.44
16:AP:8:ARG:HH11	16:AP:8:ARG:HG2	1.83	0.44
21:AU:22:ARG:O	21:AU:23:PRO:C	2.61	0.44
22:AW:69:C:O2'	22:AW:70:G:H5'	2.17	0.44
24:AY:32:PRO:CD	24:AY:95:TYR:CE1	3.00	0.44
26:B1:51:VAL:O	26:B1:57:GLU:HG2	2.17	0.44
26:B1:83:GLU:CG	26:B1:84:GLY:H	2.30	0.44
29:B4:45:GLY:O	29:B4:46:GLN:HB3	2.16	0.44
32:B7:19:ARG:HG2	32:B7:19:ARG:NH1	2.31	0.44
35:BA:118:A:OP2	35:BA:119:A:H5''	2.18	0.44
35:BA:192:C:H2'	35:BA:193:U:H5'	2.00	0.44
35:BA:1138:G:H2'	35:BA:1139:G:O4'	2.17	0.44
35:BA:1499:C:O2'	35:BA:1500:G:H5'	2.18	0.44
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.52	0.44
35:BA:2312:U:H4'	41:BG:71:THR:HG23	2.00	0.44
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.18	0.44
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.53	0.44
36:BB:5:C:C2	36:BB:117:G:N2	2.86	0.44
36:BB:87:G:H1	36:BB:91:C:N4	2.16	0.44
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	2.00	0.44
38:BD:58:HIS:CD2	38:BD:59:LYS:N	2.85	0.44
38:BD:102:LYS:O	38:BD:103:ARG:HG2	2.18	0.44
41:BG:43:LEU:HB3	41:BG:88:ILE:CG2	2.48	0.44
41:BG:135:LEU:N	41:BG:135:LEU:CD1	2.81	0.44
42:BH:20:ALA:O	42:BH:21:PRO:C	2.61	0.44
43:BI:45:LYS:C	43:BI:47:LEU:H	2.25	0.44
45:BN:5:VAL:O	45:BN:5:VAL:HG13	2.18	0.44
46:BO:10:VAL:HG21	46:BO:16:ALA:O	2.16	0.44
46:BO:107:ARG:CZ	51:BT:35:LYS:HB2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:130:PHE:CE1	47:BP:144:GLU:HG3	2.53	0.44
48:BQ:139:GLU:C	48:BQ:141:GLN:N	2.74	0.44
50:BS:25:ARG:HB3	50:BS:25:ARG:NH1	2.32	0.44
51:BT:39:ARG:HB3	51:BT:40:THR:H	1.60	0.44
52:BU:92:ARG:HD2	53:BV:11:GLN:HE21	1.81	0.44
52:BU:114:LYS:HG2	52:BU:114:LYS:H	1.62	0.44
53:BV:4:ILE:HB	53:BV:39:LEU:O	2.18	0.44
55:BX:28:PHE:CE2	55:BX:92:LEU:HD11	2.53	0.44
57:BZ:5:LEU:HD23	57:BZ:5:LEU:C	2.42	0.44
57:BZ:165:VAL:HG12	57:BZ:166:SER:OG	2.18	0.44
1:CA:96:U:O2'	1:CA:97:G:H8	2.01	0.44
1:CA:328:C:O2	1:CA:328:C:H2'	2.16	0.44
1:CA:630:G:H3'	1:CA:631:G:H5'	2.00	0.44
1:CA:935:A:H2'	1:CA:936:C:H6	1.83	0.44
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.53	0.44
4:CD:18:LYS:NZ	4:CD:31:CYS:CB	2.80	0.44
4:CD:112:VAL:HG12	4:CD:116:GLN:CD	2.43	0.44
5:CE:105:VAL:H	5:CE:106:PRO:CD	2.25	0.44
8:CH:8:ASP:O	8:CH:9:MET:C	2.60	0.44
9:CI:16:ARG:HG2	9:CI:16:ARG:NH1	2.31	0.44
10:CJ:78:ASN:HB2	10:CJ:81:THR:HB	2.00	0.44
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.82	0.44
11:CK:73:MET:CE	11:CK:102:GLY:HA3	2.46	0.44
11:CK:98:LEU:O	11:CK:101:SER:OG	2.35	0.44
19:CS:33:THR:CG2	19:CS:34:TRP:H	2.31	0.44
22:CV:55:U:O4	22:CV:57:A:C5'	2.66	0.44
22:CV:56:C:C4	22:CV:57:A:C5	3.04	0.44
58:CX:13:A:H2'	58:CX:14:A:H4'	1.99	0.44
26:D1:64:ALA:C	26:D1:66:HIS:N	2.76	0.44
28:D3:6:VAL:HB	28:D3:54:VAL:CG1	2.48	0.44
30:D5:26:THR:HG22	30:D5:27:PRO:O	2.18	0.44
33:D8:21:LYS:HD3	33:D8:48:PHE:CZ	2.52	0.44
33:D8:29:LYS:O	33:D8:30:ARG:HB2	2.18	0.44
35:DA:272(B):G:HO2'	35:DA:272(C):G:C5'	2.31	0.44
35:DA:521:G:H2'	35:DA:522:G:H8	1.82	0.44
35:DA:524:U:H2'	35:DA:525:U:C6	2.53	0.44
35:DA:596:G:H2'	35:DA:597:U:O4'	2.18	0.44
35:DA:1582:C:O2'	35:DA:1586:A:C8	2.69	0.44
35:DA:2579:C:H1'	39:DE:134:ILE:CD1	2.48	0.44
35:DA:2654:A:H62	35:DA:2667:C:N4	2.16	0.44
35:DA:2713:A:H3'	35:DA:2714:G:C5'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	2.00	0.44
39:DE:34:VAL:CG1	39:DE:48:GLN:HG2	2.48	0.44
41:DG:100:TRP:O	41:DG:102:PHE:N	2.50	0.44
42:DH:124:GLU:O	42:DH:126:PRO:HD3	2.17	0.44
43:DI:31:LEU:HD21	43:DI:38:LEU:HG	1.98	0.44
43:DI:102:SER:OG	43:DI:109:ILE:HB	2.18	0.44
44:DJ:96:UNK:C	44:DJ:98:UNK:N	2.81	0.44
51:DT:16:ARG:HD2	51:DT:18:ASP:OD1	2.18	0.44
51:DT:32:TYR:CG	51:DT:81:PRO:HB2	2.53	0.44
51:DT:66:VAL:HA	51:DT:71:GLY:HA2	1.99	0.44
51:DT:70:VAL:HG12	51:DT:71:GLY:H	1.83	0.44
52:DU:92:ARG:C	52:DU:94:ASN:N	2.76	0.44
57:DZ:161:VAL:O	57:DZ:161:VAL:HG12	2.17	0.44
1:AA:33:A:H2'	1:AA:34:C:H5'	1.99	0.44
1:AA:353:A:H5'	1:AA:353:A:H8	1.83	0.44
1:AA:499:A:H4'	1:AA:500:G:OP1	2.18	0.44
1:AA:902:G:H2'	1:AA:903:G:C8	2.53	0.44
1:AA:1147:C:C2	9:AI:16:ARG:NH1	2.85	0.44
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.52	0.44
1:AA:1250:A:C4'	9:AI:68:GLY:H	2.25	0.44
1:AA:1348:U:H4'	9:AI:120:ARG:NH1	2.33	0.44
1:AA:1442(A):G:H3'	1:AA:1442(A):G:OP2	2.18	0.44
2:AB:193:ASP:OD1	2:AB:196:LEU:HG	2.18	0.44
2:AB:207:ALA:O	2:AB:211:ILE:HG13	2.18	0.44
2:AB:214:ILE:O	2:AB:214:ILE:HG22	2.17	0.44
3:AC:45:LYS:HB2	3:AC:46:GLU:OE2	2.17	0.44
3:AC:195:VAL:HG12	3:AC:196:LEU:N	2.33	0.44
4:AD:162:LEU:HD13	4:AD:181:MET:HG2	2.00	0.44
4:AD:171:GLY:HA2	4:AD:172:PRO:HD3	1.89	0.44
6:AF:22:GLU:HA	6:AF:22:GLU:OE2	2.17	0.44
18:AR:33:ASP:OD2	18:AR:33:ASP:C	2.61	0.44
28:B3:52:HIS:CD2	36:BB:83:G:C5'	3.01	0.44
35:BA:266:G:H2'	35:BA:267:C:H5''	2.00	0.44
35:BA:271:A:N6	35:BA:271(X):G:H1'	2.32	0.44
35:BA:375:C:H2'	35:BA:376:C:C6	2.52	0.44
35:BA:860:U:C5	35:BA:917:A:N7	2.79	0.44
35:BA:875:G:H2'	35:BA:876:C:O4'	2.18	0.44
35:BA:1324:G:H4'	35:BA:1616:A:C2	2.53	0.44
35:BA:1582:C:O2'	35:BA:1586:A:C8	2.69	0.44
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	1.99	0.44
35:BA:2123:G:H2'	35:BA:2124:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.66	0.44
35:BA:2755:C:HO2'	35:BA:2756:U:H6	1.64	0.44
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.39	0.44
38:BD:24:ILE:CG2	38:BD:91:ARG:HD2	2.48	0.44
38:BD:70:TRP:HZ3	38:BD:146:GLU:OE2	2.00	0.44
38:BD:242:ARG:HH11	38:BD:242:ARG:H	1.64	0.44
39:BE:186:GLY:O	39:BE:187:ALA:CB	2.65	0.44
40:BF:99:TYR:N	40:BF:99:TYR:CD1	2.86	0.44
41:BG:167:GLU:C	41:BG:169:ALA:N	2.68	0.44
42:BH:8:PRO:C	42:BH:9:ILE:HG12	2.40	0.44
42:BH:87:LEU:HD23	42:BH:164:TYR:HD2	1.82	0.44
43:BI:3:VAL:HG22	43:BI:19:VAL:O	2.17	0.44
43:BI:9:LEU:HD12	43:BI:10:GLU:H	1.83	0.44
43:BI:31:LEU:HD21	43:BI:38:LEU:HG	1.99	0.44
43:BI:69:LYS:NZ	43:BI:73:GLU:OE1	2.49	0.44
47:BP:58:THR:C	47:BP:61:ARG:HE	2.25	0.44
47:BP:103:ALA:O	47:BP:104:GLY:C	2.61	0.44
49:BR:7:GLY:HA3	49:BR:8:ARG:HH21	1.83	0.44
52:BU:65:ILE:C	52:BU:67:ALA:N	2.75	0.44
55:BX:26:TYR:CD1	55:BX:89:ILE:HD13	2.53	0.44
1:CA:15:G:C5	1:CA:1396:A:C2	3.05	0.44
1:CA:539:A:H2'	1:CA:540:G:C8	2.53	0.44
1:CA:562:C:C2	12:CL:13:GLU:HB3	2.53	0.44
1:CA:629:G:H2'	1:CA:630:G:O4'	2.18	0.44
1:CA:736:C:C2	1:CA:737:A:N7	2.86	0.44
1:CA:741:G:H5''	15:CO:59:MET:HE1	1.99	0.44
1:CA:782:A:H4'	1:CA:1514:C:O2'	2.17	0.44
1:CA:811:C:H4'	1:CA:900:A:N6	2.32	0.44
1:CA:1141:C:H2'	1:CA:1142:G:H8	1.72	0.44
2:CB:36:ARG:O	2:CB:37:ASN:HB3	2.17	0.44
3:CC:42:LEU:HA	3:CC:45:LYS:CE	2.48	0.44
4:CD:4:TYR:CE2	4:CD:11:LEU:HD21	2.53	0.44
4:CD:177:ASP:OD1	4:CD:180:GLY:N	2.51	0.44
7:CG:41:ARG:HG2	7:CG:42:ILE:N	2.33	0.44
9:CI:28:VAL:HG11	9:CI:65:VAL:HG12	1.99	0.44
15:CO:18:PHE:CE1	15:CO:21:ASP:HB2	2.52	0.44
22:CV:46:G:H4'	22:CV:47:U:C5	2.52	0.44
26:D1:3:LYS:CG	26:D1:4:VAL:H	2.18	0.44
26:D1:73:LEU:CD1	26:D1:94:LEU:HD13	2.47	0.44
35:DA:90:U:O2	35:DA:90:U:H5'	2.17	0.44
35:DA:507:A:C5'	35:DA:508:G:H5'	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1204:A:C2	35:DA:1241:A:N1	2.85	0.44
35:DA:1596:A:O2'	35:DA:1597:A:H5'	2.18	0.44
35:DA:1914:C:O2'	35:DA:1915:U:C5'	2.56	0.44
35:DA:2126:A:O2'	35:DA:2127:G:OP2	2.28	0.44
35:DA:2580:U:H5'	39:DE:131:ALA:CB	2.48	0.44
37:DC:39:GLU:HG2	37:DC:181:PRO:CB	2.47	0.44
37:DC:85:GLU:HB3	37:DC:151:GLU:CB	2.47	0.44
38:DD:239:ARG:HH21	38:DD:239:ARG:CG	2.16	0.44
40:DF:53:THR:C	40:DF:55:GLY:N	2.73	0.44
40:DF:65:TRP:CZ3	40:DF:73:ALA:O	2.71	0.44
41:DG:61:ALA:HB2	41:DG:68:PRO:CD	2.47	0.44
41:DG:63:ILE:HB	41:DG:141:PHE:CD1	2.52	0.44
42:DH:17:VAL:HG13	42:DH:24:VAL:HG21	1.99	0.44
42:DH:72:ILE:O	42:DH:73:ALA:C	2.61	0.44
42:DH:141:VAL:C	42:DH:143:GLN:N	2.76	0.44
43:DI:77:LEU:HD22	43:DI:140:LEU:HD23	2.00	0.44
44:DJ:54:UNK:HA	44:DJ:85:UNK:CB	2.48	0.44
45:DN:15:LEU:HD12	45:DN:134:ARG:HD2	2.00	0.44
45:DN:21:LYS:C	45:DN:61:ARG:HB2	2.43	0.44
45:DN:39:ARG:C	45:DN:41:ASP:N	2.75	0.44
46:DO:97:ARG:HA	46:DO:117:LEU:CD2	2.48	0.44
46:DO:105:GLU:OE1	46:DO:105:GLU:N	2.48	0.44
48:DQ:137:TYR:OH	57:DZ:81:ARG:CZ	2.66	0.44
51:DT:35:LYS:NZ	51:DT:41:ARG:NH2	2.66	0.44
53:DV:52:VAL:O	53:DV:53:GLU:C	2.61	0.44
53:DV:62:LEU:HD21	53:DV:95:LEU:HD12	1.99	0.44
57:DZ:48:PHE:HE2	57:DZ:71:VAL:HG21	1.83	0.44
1:AA:579:G:H2'	1:AA:580:U:C6	2.53	0.44
1:AA:605:U:H2'	1:AA:606:G:C8	2.53	0.44
1:AA:639:G:O2'	1:AA:640:A:H5'	2.17	0.44
1:AA:976:G:OP1	14:AN:32:SER:N	2.51	0.44
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.53	0.44
1:AA:1053:G:O6	1:AA:1200:C:H5''	2.18	0.44
1:AA:1277:C:O2'	1:AA:1279:A:H8	2.01	0.44
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.31	0.44
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.33	0.44
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.76	0.44
2:AB:40:HIS:CG	2:AB:190:THR:HG21	2.53	0.44
2:AB:51:LEU:HD23	2:AB:201:ILE:CD1	2.48	0.44
2:AB:69:LEU:HD12	2:AB:92:TYR:HA	1.99	0.44
2:AB:96:ARG:H	2:AB:96:ARG:CD	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:120:ALA:C	2:AB:121:LEU:HD12	2.41	0.44
2:AB:142:LEU:O	2:AB:143:GLU:C	2.61	0.44
3:AC:18:TRP:HE1	14:AN:56:VAL:H	1.66	0.44
7:AG:39:ALA:O	7:AG:40:ALA:C	2.61	0.44
8:AH:9:MET:SD	8:AH:32:LYS:HB3	2.58	0.44
10:AJ:81:THR:HA	10:AJ:84:GLN:NE2	2.33	0.44
10:AJ:96:ILE:HG12	10:AJ:96:ILE:O	2.17	0.44
12:AL:20:LYS:O	12:AL:21:VAL:HG23	2.18	0.44
16:AP:20:VAL:HG22	16:AP:21:VAL:H	1.81	0.44
16:AP:49:LEU:HD13	16:AP:73:LEU:HB3	2.00	0.44
22:AV:54:U:C5'	22:AV:55:U:C5'	2.86	0.44
25:B0:45:PHE:HE2	25:B0:69:PHE:CE2	2.36	0.44
26:B1:17:SER:HB3	26:B1:38:SER:OG	2.17	0.44
26:B1:26:ARG:HG3	26:B1:26:ARG:NH1	2.32	0.44
27:B2:64:LEU:HD22	27:B2:68:ARG:HH11	1.82	0.44
33:B8:61:LEU:HD12	33:B8:62:LEU:HG	1.99	0.44
34:B9:27:CYS:HB3	34:B9:32:HIS:HB2	1.99	0.44
35:BA:632:A:O2'	35:BA:633:A:H5'	2.18	0.44
35:BA:1197:G:H2'	35:BA:1198:U:H6	1.82	0.44
35:BA:1441:G:H2'	35:BA:1442:G:C8	2.52	0.44
35:BA:1643:G:C2'	35:BA:1644:C:O5'	2.66	0.44
35:BA:2138:C:H2'	35:BA:2139:C:H6	1.83	0.44
35:BA:2259:G:H1'	35:BA:2427:C:C2	2.53	0.44
35:BA:2328:A:H2'	35:BA:2329:G:O4'	2.17	0.44
35:BA:2464:C:HO2'	35:BA:2465:C:P	2.41	0.44
35:BA:2759:G:H2'	35:BA:2759:G:N3	2.33	0.44
38:BD:71:ASP:CG	38:BD:103:ARG:NH2	2.76	0.44
39:BE:69:LYS:C	39:BE:71:GLY:H	2.25	0.44
43:BI:8:PRO:HB3	43:BI:15:VAL:N	2.33	0.44
47:BP:24:GLY:O	47:BP:25:SER:HB2	2.17	0.44
47:BP:100:LEU:N	47:BP:100:LEU:CD2	2.81	0.44
50:BS:16:ASN:C	50:BS:18:ILE:N	2.75	0.44
51:BT:20:PRO:HD3	51:BT:85:LYS:HB3	2.00	0.44
51:BT:23:ARG:C	51:BT:25:GLY:H	2.23	0.44
51:BT:57:PHE:O	51:BT:58:ASN:ND2	2.51	0.44
52:BU:91:ASP:CG	52:BU:96:ALA:HB2	2.43	0.44
55:BX:12:VAL:CG2	55:BX:17:ALA:HB1	2.48	0.44
1:CA:23:C:H4'	1:CA:913:A:N6	2.33	0.44
1:CA:266:G:O2'	1:CA:267:C:OP2	2.30	0.44
1:CA:1049:U:O2'	1:CA:1050:G:OP2	2.34	0.44
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:10:LEU:HA	2:CB:13:ALA:CB	2.48	0.44
3:CC:28:GLN:O	3:CC:29:TYR:C	2.60	0.44
5:CE:76:ILE:CB	5:CE:77:PRO:HD2	2.48	0.44
9:CI:4:TYR:HB3	9:CI:84:ALA:O	2.18	0.44
11:CK:62:GLN:O	11:CK:63:LEU:C	2.61	0.44
13:CM:14:ARG:C	13:CM:16:ASP:H	2.26	0.44
16:CP:55:ARG:O	16:CP:56:ALA:C	2.60	0.44
20:CT:53:LEU:HA	20:CT:56:MET:HB3	2.00	0.44
22:CW:13:C:O2'	22:CW:14:A:H5'	2.18	0.44
22:CW:63:G:C4'	37:DC:53:ARG:HB3	2.48	0.44
27:D2:3:LEU:HB2	35:DA:98:G:OP1	2.17	0.44
27:D2:8:LYS:O	27:D2:9:GLN:C	2.61	0.44
29:D4:10:VAL:HG23	29:D4:27:THR:O	2.18	0.44
35:DA:143:G:H1'	55:DX:37:THR:HG21	1.98	0.44
35:DA:769:G:O2'	35:DA:770:G:H5'	2.18	0.44
35:DA:1221(A):C:O2'	35:DA:1222:C:H5'	2.17	0.44
35:DA:1464:C:H1'	35:DA:1528(A):A:N3	2.33	0.44
35:DA:1562:A:C2	35:DA:1563:G:C4	3.05	0.44
35:DA:2590:A:OP2	38:DD:238:GLY:HA2	2.18	0.44
35:DA:2789:C:O2'	35:DA:2790:A:H1'	2.17	0.44
36:DB:94:C:O2'	36:DB:95:C:H5'	2.18	0.44
38:DD:110:GLY:O	38:DD:112:GLN:HG3	2.18	0.44
38:DD:222:ARG:NH1	38:DD:222:ARG:HB2	2.33	0.44
39:DE:48:GLN:NE2	39:DE:64:LYS:NZ	2.63	0.44
39:DE:178:GLU:N	39:DE:178:GLU:CD	2.75	0.44
40:DF:107:LYS:O	40:DF:108:LYS:C	2.61	0.44
42:DH:18:GLU:HA	42:DH:45:VAL:HG21	1.98	0.44
42:DH:20:ALA:O	42:DH:21:PRO:C	2.61	0.44
43:DI:25:TYR:HE2	43:DI:29:TYR:CD2	2.36	0.44
45:DN:119:ARG:CG	45:DN:119:ARG:NH1	2.81	0.44
50:DS:68:GLN:C	50:DS:70:GLY:H	2.26	0.44
52:DU:91:ASP:OD1	52:DU:96:ALA:CA	2.65	0.44
52:DU:93:LYS:CD	52:DU:93:LYS:H	2.30	0.44
53:DV:45:THR:O	53:DV:46:VAL:CG1	2.66	0.44
57:DZ:81:ARG:O	57:DZ:82:ARG:O	2.36	0.44
57:DZ:111:VAL:HG22	57:DZ:112:ARG:N	2.33	0.44
1:AA:59:A:H2'	1:AA:59:A:N3	2.33	0.43
1:AA:729:A:H2'	1:AA:730:G:C8	2.49	0.43
1:AA:860:A:H2'	1:AA:861:G:O4'	2.18	0.43
1:AA:953:G:C6	1:AA:1229:A:C6	3.06	0.43
1:AA:974:A:H8	1:AA:974:A:OP1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1147:C:O2	9:AI:16:ARG:NH1	2.51	0.43
1:AA:1152:A:H5''	10:AJ:13:HIS:HD1	1.79	0.43
1:AA:1184:G:O2'	1:AA:1185:G:H5'	2.18	0.43
2:AB:75:LYS:CA	2:AB:78:GLN:HE21	2.28	0.43
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.24	0.43
3:AC:43:LEU:O	3:AC:47:LEU:HB3	2.18	0.43
4:AD:64:LEU:HD12	4:AD:198:VAL:HG21	1.99	0.43
4:AD:68:TYR:H	4:AD:68:TYR:HD1	1.66	0.43
5:AE:31:LEU:CD1	5:AE:43:LEU:HD11	2.48	0.43
7:AG:15:ASP:O	7:AG:19:GLY:HA2	2.18	0.43
7:AG:92:SER:O	7:AG:96:GLN:HG3	2.18	0.43
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.33	0.43
12:AL:2:PRO:O	12:AL:3:THR:C	2.60	0.43
14:AN:47:LEU:HB3	14:AN:53:LEU:HG	2.00	0.43
15:AO:8:LYS:HG3	15:AO:31:LEU:HD21	2.00	0.43
15:AO:12:ILE:C	15:AO:14:GLU:H	2.25	0.43
16:AP:74:LEU:HB2	16:AP:80:PHE:HE1	1.82	0.43
17:AQ:39:SER:O	17:AQ:40:LYS:HB2	2.18	0.43
20:AT:38:LYS:HE2	20:AT:38:LYS:HB3	1.77	0.43
22:AV:55:U:C4	22:AV:58:A:OP2	2.71	0.43
22:AW:17(A):U:O2'	22:AW:18:G:OP1	2.32	0.43
24:AY:83:LEU:N	24:AY:83:LEU:CD2	2.73	0.43
31:B6:15:GLU:OE1	31:B6:43:CYS:SG	2.75	0.43
35:BA:154:G:H1	35:BA:172:C:H42	1.66	0.43
35:BA:821:A:H2'	35:BA:946:G:H5''	2.00	0.43
35:BA:1332:G:H21	35:BA:1610:A:H8	1.65	0.43
35:BA:2472:G:H3'	35:BA:2475:C:N4	2.32	0.43
35:BA:2699:C:H2'	35:BA:2700:C:O4'	2.18	0.43
38:BD:13:ARG:HD2	38:BD:16:MET:SD	2.58	0.43
38:BD:129:ASN:O	38:BD:193:VAL:HG12	2.18	0.43
40:BF:136:THR:O	40:BF:137:LYS:C	2.61	0.43
42:BH:154:PRO:HA	42:BH:161:GLY:HA3	2.00	0.43
43:BI:76:THR:CG2	43:BI:141:LYS:HE2	2.47	0.43
43:BI:126:TYR:N	43:BI:126:TYR:CD1	2.85	0.43
45:BN:131:GLN:OE1	45:BN:131:GLN:HA	2.18	0.43
46:BO:97:ARG:HG3	46:BO:97:ARG:HH11	1.83	0.43
48:BQ:26:TYR:HA	48:BQ:137:TYR:HD1	1.81	0.43
49:BR:12:ARG:HD3	49:BR:16:HIS:CG	2.53	0.43
49:BR:85:PRO:O	49:BR:88:ARG:HB2	2.18	0.43
50:BS:72:ALA:O	50:BS:76:LYS:HG3	2.18	0.43
53:BV:21:ARG:CZ	53:BV:21:ARG:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:8:ARG:O	54:BW:9:TYR:HB2	2.17	0.43
57:BZ:56:VAL:HG12	57:BZ:57:ILE:H	1.83	0.43
1:CA:184:G:H2'	1:CA:185:A:C8	2.51	0.43
1:CA:355:C:H5'	1:CA:389:A:OP2	2.18	0.43
1:CA:429:U:H1'	1:CA:430:A:H5''	1.99	0.43
1:CA:957:U:H3	1:CA:960:U:H5''	1.83	0.43
1:CA:963:G:N3	10:CJ:55:LYS:NZ	2.66	0.43
1:CA:1116:C:O2'	9:CI:108:VAL:HG21	2.17	0.43
4:CD:62:GLN:HE22	4:CD:65:ARG:HH21	1.66	0.43
5:CE:103:GLY:N	5:CE:106:PRO:HG2	2.29	0.43
6:CF:62:TRP:CB	18:CR:35:ARG:NH1	2.81	0.43
6:CF:88:VAL:O	6:CF:88:VAL:CG1	2.65	0.43
8:CH:1:MET:HE2	8:CH:1:MET:H3	1.82	0.43
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.33	0.43
10:CJ:86:MET:O	10:CJ:86:MET:HG3	2.18	0.43
13:CM:82:MET:O	13:CM:82:MET:CG	2.66	0.43
16:CP:9:PHE:HB3	16:CP:10:GLY:H	1.49	0.43
16:CP:40:ASP:HB3	16:CP:48:TRP:CB	2.47	0.43
16:CP:80:PHE:H	16:CP:80:PHE:HD1	1.63	0.43
19:CS:43:GLU:HB3	19:CS:44:MET:CE	2.47	0.43
20:CT:84:LEU:O	20:CT:88:VAL:HG23	2.18	0.43
21:CU:17:THR:O	21:CU:22:ARG:NH1	2.51	0.43
22:CV:5:G:H1	22:CV:68:C:H42	1.67	0.43
25:D0:43:THR:C	25:D0:45:PHE:N	2.74	0.43
27:D2:47:ASN:O	27:D2:49:LYS:N	2.51	0.43
28:D3:39:ASP:O	28:D3:39:ASP:CG	2.60	0.43
33:D8:58:ILE:HG22	47:DP:49:ARG:HD2	2.00	0.43
35:DA:27:G:H22	35:DA:512:G:C2'	2.28	0.43
35:DA:573:G:O2'	35:DA:574:C:H3'	2.18	0.43
35:DA:878:A:H2'	35:DA:879:G:O4'	2.17	0.43
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.18	0.43
35:DA:1685:C:H2'	35:DA:1686:C:H6	1.83	0.43
35:DA:2126:A:H4'	35:DA:2127:G:O5'	2.18	0.43
35:DA:2134:A:N6	35:DA:2158:A:C4	2.86	0.43
35:DA:2223:G:O2'	35:DA:2224:G:H5'	2.18	0.43
35:DA:2563:U:H4'	46:DO:28:SER:CA	2.48	0.43
35:DA:2738:A:C2	35:DA:2739:U:C6	3.06	0.43
36:DB:50:G:OP1	50:DS:63:THR:HG23	2.18	0.43
38:DD:77:ALA:HB2	38:DD:97:TYR:CG	2.52	0.43
42:DH:44:VAL:H	42:DH:46:GLU:CD	2.27	0.43
42:DH:119:GLU:HG2	42:DH:120:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:15:VAL:HG22	43:DI:16:GLY:N	2.32	0.43
43:DI:90:GLY:C	43:DI:92:VAL:H	2.25	0.43
45:DN:22:THR:HA	45:DN:61:ARG:HB2	2.00	0.43
45:DN:46:VAL:O	45:DN:47:ALA:HB3	2.18	0.43
47:DP:6:LEU:O	47:DP:10:PRO:CB	2.65	0.43
47:DP:6:LEU:N	47:DP:6:LEU:CD2	2.81	0.43
47:DP:18:ARG:NH1	47:DP:18:ARG:CB	2.64	0.43
52:DU:93:LYS:H	52:DU:93:LYS:HD2	1.84	0.43
53:DV:18:LEU:CG	53:DV:19:LYS:H	2.29	0.43
53:DV:19:LYS:HZ2	53:DV:20:LEU:H	1.64	0.43
57:DZ:151:HIS:ND1	57:DZ:152:ALA:N	2.66	0.43
1:AA:35:G:H21	12:AL:115:SER:HB2	1.82	0.43
1:AA:271:C:H2'	1:AA:272:C:H6	1.82	0.43
1:AA:546:G:P	4:AD:72:GLU:HB3	2.58	0.43
1:AA:581:G:O2'	1:AA:582:U:H6	2.01	0.43
1:AA:590:C:H2'	1:AA:591:U:C6	2.54	0.43
1:AA:633:G:O2'	1:AA:634:C:H5'	2.17	0.43
1:AA:1071:C:H5''	5:AE:49:PRO:HG2	2.00	0.43
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.99	0.43
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.53	0.43
1:AA:1380:U:C2	7:AG:3:ARG:HD3	2.53	0.43
1:AA:1432:G:OP1	51:BT:107:ASP:HB2	2.18	0.43
3:AC:73:PRO:HB3	3:AC:103:VAL:HG12	2.00	0.43
7:AG:12:LEU:HD11	7:AG:25:ALA:HB2	2.01	0.43
7:AG:79:ARG:HG3	7:AG:84:ASN:OD1	2.18	0.43
14:AN:58:LYS:HD3	14:AN:58:LYS:C	2.42	0.43
15:AO:9:GLN:O	15:AO:13:GLN:N	2.46	0.43
15:AO:54:ARG:O	15:AO:57:LEU:HB2	2.18	0.43
16:AP:74:LEU:HB2	16:AP:80:PHE:CE1	2.53	0.43
18:AR:22:VAL:HG23	18:AR:55:ARG:O	2.17	0.43
19:AS:53:ASN:HD22	19:AS:58:VAL:CG2	2.30	0.43
19:AS:67:VAL:HG23	19:AS:68:GLY:H	1.83	0.43
20:AT:90:GLN:O	20:AT:93:GLU:HB3	2.18	0.43
22:AV:7:G:H3'	22:AV:8:U:H5'	2.00	0.43
24:AY:10:HIS:CD2	24:AY:59:GLY:HA2	2.53	0.43
24:AY:38:GLY:O	24:AY:39:LYS:HD2	2.14	0.43
26:B1:3:LYS:HD2	26:B1:4:VAL:HG12	2.00	0.43
28:B3:6:VAL:HB	28:B3:54:VAL:CG1	2.48	0.43
33:B8:43:GLN:O	33:B8:44:LYS:HD2	2.16	0.43
33:B8:55:ALA:C	33:B8:57:ARG:N	2.76	0.43
35:BA:558:G:OP1	45:BN:111:PRO:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:598:G:H5'	47:BP:15:ARG:HB2	1.99	0.43
35:BA:898:C:O2'	35:BA:899:A:H5'	2.19	0.43
35:BA:1448:G:N3	35:BA:1528(A):A:H2	2.16	0.43
35:BA:1475:G:H5'	35:BA:1476:C:OP2	2.18	0.43
35:BA:1765:C:O2'	35:BA:1766:U:H5'	2.18	0.43
35:BA:1860:G:H1	35:BA:1882:C:H42	1.66	0.43
35:BA:1998:G:H2'	35:BA:1999:C:C6	2.53	0.43
35:BA:2126:A:H4'	35:BA:2127:G:O5'	2.18	0.43
35:BA:2346:A:H5'	35:BA:2383:G:C1'	2.48	0.43
35:BA:2822:G:H8	35:BA:2822:G:O5'	2.00	0.43
35:BA:2848:G:H8	51:BT:97:ALA:HB2	1.83	0.43
37:BC:121:GLY:O	37:BC:142:ALA:HA	2.18	0.43
38:BD:31:LYS:C	38:BD:33:LEU:H	2.26	0.43
38:BD:70:TRP:CZ3	38:BD:146:GLU:OE2	2.71	0.43
39:BE:23:VAL:HG12	39:BE:173:VAL:HG21	2.00	0.43
39:BE:53:PRO:O	39:BE:54:GLN:C	2.61	0.43
39:BE:115:GLY:HA2	39:BE:157:ALA:CB	2.48	0.43
39:BE:119:ARG:HD2	39:BE:120:TRP:CD1	2.53	0.43
40:BF:9:ILE:CG1	40:BF:15:SER:HB3	2.23	0.43
41:BG:17:PRO:O	41:BG:18:GLU:C	2.60	0.43
41:BG:38:VAL:HG12	41:BG:158:ALA:HB3	2.00	0.43
41:BG:119:GLY:HA3	41:BG:180:PHE:O	2.18	0.43
42:BH:97:ARG:NH1	42:BH:104:GLU:OE1	2.51	0.43
42:BH:158:HIS:NE2	42:BH:170:ARG:CA	2.71	0.43
43:BI:88:ILE:CG1	43:BI:89:TYR:N	2.81	0.43
45:BN:39:ARG:HE	45:BN:41:ASP:CB	2.32	0.43
47:BP:135:LEU:O	47:BP:136:GLU:C	2.60	0.43
48:BQ:110:THR:OG1	48:BQ:111:GLU:N	2.51	0.43
51:BT:29:ARG:HG2	51:BT:85:LYS:CA	2.48	0.43
53:BV:34:GLU:O	53:BV:36:PRO:CD	2.66	0.43
53:BV:34:GLU:O	53:BV:36:PRO:HD3	2.18	0.43
56:BY:29:GLU:N	56:BY:29:GLU:CD	2.77	0.43
57:BZ:82:ARG:HA	57:BZ:83:PRO:HD2	1.90	0.43
1:CA:142:G:H2'	1:CA:143:A:C8	2.53	0.43
1:CA:252:U:H2'	1:CA:275:G:N2	2.33	0.43
1:CA:272:C:C2	1:CA:273:A:C8	3.07	0.43
1:CA:709:G:H2'	1:CA:710:G:H8	1.83	0.43
1:CA:1006:C:H2'	1:CA:1007:C:C2	2.53	0.43
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.82	0.43
1:CA:1097:C:O4'	1:CA:1170:A:H4'	2.17	0.43
1:CA:1234:C:O2'	1:CA:1235:U:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1278:U:H5''	1:CA:1279:A:C1'	2.48	0.43
1:CA:1432:G:N2	1:CA:1469:G:C6	2.86	0.43
2:CB:102:LEU:HB2	2:CB:176:GLU:HB3	2.00	0.43
2:CB:104:ASN:O	2:CB:108:ILE:HG12	2.17	0.43
2:CB:214:ILE:O	2:CB:214:ILE:HG22	2.17	0.43
4:CD:9:CYS:HB3	4:CD:32:ALA:HB3	2.00	0.43
4:CD:188:LEU:O	4:CD:189:PRO:C	2.60	0.43
8:CH:19:VAL:O	8:CH:20:TYR:HB2	2.18	0.43
12:CL:22:PRO:C	12:CL:24:LEU:N	2.76	0.43
12:CL:90:LEU:HB3	12:CL:93:VAL:HG21	1.99	0.43
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.18	0.43
19:CS:41:VAL:O	19:CS:44:MET:SD	2.76	0.43
22:CW:52:G:O2'	22:CW:53:G:H8	2.01	0.43
26:D1:41:ARG:HD3	26:D1:43:TYR:CE2	2.53	0.43
30:D5:55:ARG:HG3	30:D5:56:LYS:N	2.33	0.43
35:DA:1242:A:H2'	35:DA:1243:G:H5'	2.00	0.43
35:DA:1652:A:O2'	35:DA:1653:G:H5'	2.17	0.43
35:DA:1982:C:H5'	35:DA:1983:C:OP2	2.18	0.43
35:DA:2304:G:O2'	41:DG:156:ASP:HB3	2.18	0.43
35:DA:2605:U:H2'	35:DA:2606:C:C6	2.53	0.43
35:DA:2692:C:O2'	35:DA:2693:A:H5'	2.18	0.43
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.17	0.43
35:DA:2735:G:N2	35:DA:2770:G:H1'	2.32	0.43
36:DB:89:G:C6	36:DB:90:A:N6	2.86	0.43
38:DD:16:MET:HE3	38:DD:206:LEU:O	2.19	0.43
38:DD:61:LEU:HD13	38:DD:61:LEU:HA	1.77	0.43
38:DD:131:LEU:HA	38:DD:190:TYR:CE2	2.54	0.43
39:DE:52:LEU:O	39:DE:74:PRO:CA	2.65	0.43
39:DE:92:THR:O	39:DE:94:GLU:N	2.51	0.43
40:DF:37:VAL:HG13	40:DF:184:TYR:CD1	2.50	0.43
41:DG:111:LEU:O	41:DG:114:ILE:HB	2.19	0.43
44:DJ:20:UNK:O	44:DJ:21:UNK:CB	2.66	0.43
50:DS:58:LEU:O	50:DS:59:LYS:O	2.37	0.43
56:DY:26:LYS:HG2	56:DY:27:VAL:N	2.29	0.43
1:AA:300:A:H2'	1:AA:301:G:C5'	2.48	0.43
1:AA:300:A:H2'	1:AA:301:G:H5'	1.99	0.43
1:AA:736:C:C2	1:AA:737:A:N7	2.86	0.43
1:AA:1006:C:H2'	1:AA:1007:C:C4	2.54	0.43
1:AA:1177:G:OP2	9:AI:97:LYS:NZ	2.48	0.43
2:AB:144:ARG:HB2	2:AB:148:TYR:CE2	2.53	0.43
2:AB:182:ILE:O	2:AB:183:PRO:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	2.00	0.43
3:AC:42:LEU:HA	3:AC:45:LYS:CE	2.48	0.43
4:AD:185:PHE:O	4:AD:186:LEU:C	2.60	0.43
4:AD:191:ARG:HG3	4:AD:191:ARG:HH11	1.83	0.43
6:AF:42:GLU:C	6:AF:44:GLY:H	2.25	0.43
6:AF:91:VAL:CG1	6:AF:92:LYS:N	2.81	0.43
8:AH:86:ILE:HG21	8:AH:133:LEU:HD22	2.00	0.43
8:AH:88:LYS:O	8:AH:92:ARG:NH1	2.50	0.43
9:AI:118:LYS:C	9:AI:120:ARG:H	2.26	0.43
10:AJ:49:VAL:HG22	10:AJ:50:ILE:N	2.32	0.43
10:AJ:50:ILE:HD11	14:AN:41:ARG:HD3	2.00	0.43
13:AM:60:VAL:HG23	13:AM:61:GLU:N	2.34	0.43
13:AM:65:LYS:CB	13:AM:66:LEU:HD12	2.48	0.43
13:AM:110:ARG:HG2	13:AM:110:ARG:NH1	2.33	0.43
20:AT:56:MET:O	20:AT:59:ALA:HB3	2.18	0.43
21:AU:9:ARG:O	21:AU:13:ILE:HG13	2.18	0.43
22:AW:20:U:H5'	22:AW:21:A:OP2	2.18	0.43
28:B3:39:ASP:O	28:B3:39:ASP:CG	2.61	0.43
33:B8:30:ARG:O	33:B8:31:HIS:ND1	2.49	0.43
33:B8:40:GLU:O	33:B8:42:ARG:N	2.51	0.43
35:BA:1040:C:O2'	35:BA:1041:C:P	2.76	0.43
35:BA:1046:A:OP2	44:BJ:10:UNK:HA	2.17	0.43
35:BA:1520:G:H2'	35:BA:1523:U:O4'	2.18	0.43
35:BA:2040:C:H2'	35:BA:2041:U:O4'	2.18	0.43
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.54	0.43
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.53	0.43
35:BA:2303:G:H1'	41:BG:132:ASN:HD22	1.83	0.43
39:BE:1:MET:HA	39:BE:200:GLU:OE1	2.17	0.43
39:BE:31:CYS:HA	39:BE:32:PRO:HD2	1.86	0.43
40:BF:110:LEU:HD23	40:BF:110:LEU:HA	1.87	0.43
40:BF:126:VAL:HG23	40:BF:127:GLU:N	2.33	0.43
42:BH:44:VAL:H	42:BH:46:GLU:CD	2.27	0.43
43:BI:125:GLU:HA	43:BI:125:GLU:OE1	2.18	0.43
47:BP:95:VAL:CG1	47:BP:125:VAL:HG23	2.49	0.43
48:BQ:137:TYR:CZ	57:BZ:81:ARG:NH2	2.87	0.43
49:BR:84:ALA:N	49:BR:85:PRO:CD	2.81	0.43
57:BZ:30:ASN:HB3	57:BZ:90:VAL:O	2.17	0.43
1:CA:15:G:H2'	1:CA:16:A:C8	2.53	0.43
1:CA:15:G:H2'	1:CA:16:A:H8	1.82	0.43
1:CA:19:C:H1'	1:CA:917:G:N2	2.33	0.43
1:CA:406:G:H2'	1:CA:407:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:623:C:C4	1:CA:624:C:C5	3.06	0.43
1:CA:645:C:H2'	1:CA:646:U:O5'	2.18	0.43
1:CA:758:G:H5''	1:CA:880:C:H1'	1.99	0.43
1:CA:971:G:C8	1:CA:1365:G:H4'	2.52	0.43
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.18	0.43
1:CA:1126:U:OP1	10:CJ:38:ILE:HD11	2.18	0.43
1:CA:1384:C:H2'	1:CA:1385:G:H8	1.84	0.43
1:CA:1432:G:H1'	1:CA:1469:G:H22	1.84	0.43
2:CB:51:LEU:HD22	2:CB:55:PHE:HE2	1.83	0.43
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.43	0.43
4:CD:147:ALA:HB2	4:CD:182:LYS:HG2	1.99	0.43
7:CG:92:SER:O	7:CG:96:GLN:HG3	2.18	0.43
9:CI:43:ALA:C	9:CI:45:ALA:N	2.73	0.43
9:CI:79:LEU:HD13	9:CI:101:PHE:C	2.43	0.43
11:CK:61:ALA:O	11:CK:64:ALA:HB3	2.19	0.43
11:CK:91:ARG:O	11:CK:94:ALA:HB3	2.17	0.43
12:CL:69:GLY:HA3	12:CL:99:ARG:HH12	1.83	0.43
12:CL:88:LYS:O	12:CL:89:ASP:HB2	2.17	0.43
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.80	0.43
18:CR:36:ASN:HB3	18:CR:39:VAL:HG23	2.01	0.43
19:CS:53:ASN:HD22	19:CS:58:VAL:CG2	2.31	0.43
21:CU:9:ARG:O	21:CU:13:ILE:HG13	2.18	0.43
22:CV:36:U:H3'	22:CV:36:U:C6	2.53	0.43
24:CY:9:TYR:CD1	24:CY:10:HIS:O	2.71	0.43
25:D0:43:THR:O	25:D0:43:THR:CG2	2.63	0.43
27:D2:33:MET:HE3	55:DX:8:ILE:CG2	2.48	0.43
29:D4:4:GLY:O	29:D4:5:ILE:HG23	2.18	0.43
29:D4:25:TYR:N	29:D4:25:TYR:CD1	2.86	0.43
33:D8:3:LYS:HE2	35:DA:242:G:O5'	2.18	0.43
35:DA:69:C:H2'	35:DA:70:G:C8	2.54	0.43
35:DA:213:A:C2'	35:DA:214:G:H5'	2.48	0.43
35:DA:412:A:N7	35:DA:2411:A:H2	2.15	0.43
35:DA:521:G:H2'	35:DA:522:G:C8	2.53	0.43
35:DA:656:G:C2'	35:DA:657:U:O5'	2.66	0.43
35:DA:864:G:O2'	35:DA:866:A:N6	2.50	0.43
35:DA:999:U:H5''	35:DA:1154:G:O6	2.18	0.43
35:DA:1499:C:H2'	35:DA:1500:G:C8	2.53	0.43
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.19	0.43
35:DA:1695:G:N7	38:DD:14:ARG:NH2	2.67	0.43
35:DA:1847:A:H3'	35:DA:1848:A:C5'	2.47	0.43
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2474:C:N3	35:DA:2475:C:O2	2.51	0.43
35:DA:2684:U:OP2	51:DT:53:ARG:NE	2.51	0.43
35:DA:2687:U:O2'	35:DA:2688:U:H5'	2.18	0.43
35:DA:2689:U:O2'	35:DA:2690:C:OP2	2.33	0.43
35:DA:2801(A):A:H4'	35:DA:2802:G:C2'	2.48	0.43
38:DD:155:LEU:HD12	38:DD:155:LEU:N	2.33	0.43
38:DD:231:HIS:ND1	38:DD:232:PRO:CD	2.81	0.43
39:DE:12:THR:CG2	39:DE:13:ARG:N	2.81	0.43
39:DE:60:ASN:C	39:DE:62:PRO:CD	2.91	0.43
40:DF:2:LYS:O	40:DF:24:LEU:HG	2.17	0.43
40:DF:131:GLY:O	40:DF:132:VAL:O	2.36	0.43
40:DF:184:TYR:O	40:DF:188:ARG:HG2	2.17	0.43
42:DH:97:ARG:NH1	42:DH:104:GLU:OE1	2.51	0.43
42:DH:148:ILE:C	42:DH:150:ALA:N	2.74	0.43
43:DI:115:ALA:HB3	43:DI:129:THR:H	1.83	0.43
45:DN:62:VAL:HG23	45:DN:66:LYS:HD2	2.00	0.43
46:DO:26:LYS:O	46:DO:27:GLY:O	2.36	0.43
47:DP:83:VAL:O	47:DP:115:LEU:HD23	2.18	0.43
48:DQ:42:ILE:HG13	48:DQ:97:VAL:HG21	2.00	0.43
48:DQ:109:VAL:O	48:DQ:110:THR:O	2.35	0.43
49:DR:60:LEU:O	49:DR:61:HIS:C	2.61	0.43
50:DS:77:ALA:O	50:DS:79:ALA:N	2.52	0.43
54:DW:34:ASN:O	54:DW:35:ILE:C	2.60	0.43
1:AA:225:C:H2'	1:AA:226:G:H8	1.83	0.43
1:AA:272:C:H2'	1:AA:273:A:C8	2.49	0.43
1:AA:423:G:H2'	1:AA:424:G:H5'	2.01	0.43
1:AA:539:A:H2'	1:AA:540:G:C8	2.54	0.43
1:AA:544:G:H2'	1:AA:545:C:C6	2.53	0.43
1:AA:889:A:H5'	1:AA:891:U:H1'	2.01	0.43
1:AA:1005:A:C2'	1:AA:1006:C:H5'	2.49	0.43
1:AA:1057:G:H4'	3:AC:196:LEU:C	2.42	0.43
1:AA:1057:G:C4'	3:AC:196:LEU:O	2.62	0.43
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.83	0.43
1:AA:1248:A:H2'	1:AA:1249:C:H5'	2.00	0.43
1:AA:1384:C:H2'	1:AA:1385:G:H8	1.83	0.43
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.18	0.43
2:AB:137:ARG:HD3	2:AB:137:ARG:C	2.42	0.43
3:AC:177:THR:HB	3:AC:180:ALA:HB2	2.01	0.43
11:AK:62:GLN:O	11:AK:63:LEU:C	2.62	0.43
13:AM:69:GLU:HA	13:AM:69:GLU:OE1	2.17	0.43
18:AR:38:GLU:HG3	18:AR:42:ARG:NE	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:31:THR:CG2	24:AY:53:GLU:OE1	2.67	0.43
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.86	0.43
33:B8:51:ALA:H	33:B8:53:PRO:CG	2.31	0.43
35:BA:1511:C:H2'	35:BA:1512:U:O4'	2.19	0.43
35:BA:2163:C:H5''	35:BA:2172:U:OP2	2.19	0.43
35:BA:2660:A:C2	35:BA:2661:G:H1'	2.53	0.43
35:BA:2837:G:H2'	35:BA:2838:G:H8	1.83	0.43
39:BE:143:ASN:HD22	39:BE:147:PRO:HD3	1.84	0.43
42:BH:70:THR:CG2	42:BH:74:ASN:HD21	2.31	0.43
47:BP:40:SER:CB	47:BP:41:ARG:NH2	2.81	0.43
47:BP:85:LEU:HD23	47:BP:88:LEU:CD2	2.48	0.43
49:BR:4:LEU:O	49:BR:5:LYS:HG3	2.19	0.43
51:BT:80:SER:CB	51:BT:81:PRO:CD	2.94	0.43
52:BU:69:CYS:SG	52:BU:79:PHE:CB	3.06	0.43
53:BV:4:ILE:HD12	53:BV:40:LEU:HG	2.01	0.43
57:BZ:163:LEU:O	57:BZ:163:LEU:HG	2.19	0.43
1:CA:34:C:C3'	1:CA:35:G:C5'	2.96	0.43
1:CA:577:G:C4	1:CA:816:A:C2	3.06	0.43
1:CA:658:G:H2'	1:CA:659:U:O5'	2.19	0.43
1:CA:1223:C:OP2	19:CS:78:ARG:NH2	2.51	0.43
1:CA:1347:G:H21	1:CA:1373:G:H2'	1.79	0.43
1:CA:1428:A:C6	1:CA:1429:C:N4	2.86	0.43
1:CA:1439:C:O5'	20:CT:38:LYS:NZ	2.50	0.43
1:CA:1494:G:H4'	35:DA:1913:A:H5''	2.01	0.43
2:CB:40:HIS:CG	2:CB:190:THR:HG21	2.54	0.43
3:CC:95:THR:HG22	3:CC:97:LYS:HG3	1.99	0.43
4:CD:31:CYS:O	4:CD:33:MET:N	2.49	0.43
4:CD:162:LEU:HD13	4:CD:181:MET:HG2	2.00	0.43
6:CF:4:TYR:HD1	6:CF:92:LYS:HA	1.83	0.43
6:CF:45:LEU:HD21	6:CF:57:GLN:OE1	2.18	0.43
6:CF:100:ASN:HD22	18:CR:23:LYS:HZ1	1.67	0.43
8:CH:5:PRO:HG2	8:CH:6:ILE:CD1	2.32	0.43
8:CH:77:GLU:CG	8:CH:78:GLN:H	2.30	0.43
9:CI:103:THR:O	9:CI:104:ARG:C	2.61	0.43
11:CK:77:MET:CG	11:CK:80:VAL:HG11	2.48	0.43
12:CL:24:LEU:HG	12:CL:61:TYR:CE1	2.54	0.43
13:CM:90:LEU:O	13:CM:91:ARG:HB2	2.19	0.43
16:CP:74:LEU:HB2	16:CP:80:PHE:HE1	1.83	0.43
19:CS:29:ARG:N	19:CS:29:ARG:HD2	2.33	0.43
22:CV:12:G:H2'	22:CV:13:C:O5'	2.18	0.43
22:CV:54:U:O5'	22:CV:54:U:H6	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:40:THR:HG23	28:D3:43:ILE:HD13	2.00	0.43
30:D5:52:TYR:HD1	30:D5:53:ALA:N	2.16	0.43
33:D8:51:ALA:N	33:D8:53:PRO:CD	2.62	0.43
35:DA:222:A:N6	35:DA:224:G:C2	2.86	0.43
35:DA:1563:G:H2'	35:DA:1564:C:C6	2.44	0.43
35:DA:1577:C:H2'	35:DA:1578:U:O4'	2.19	0.43
35:DA:2403:C:N3	35:DA:2415:G:C2	2.86	0.43
35:DA:2743:C:C2	35:DA:2762:G:C2	3.06	0.43
37:DC:18:LYS:HD2	37:DC:20:TYR:O	2.17	0.43
38:DD:74:GLY:O	38:DD:75:ILE:C	2.61	0.43
38:DD:130:ALA:HB2	38:DD:192:THR:HA	2.00	0.43
38:DD:185:VAL:HG12	38:DD:186:HIS:N	2.32	0.43
38:DD:211:ARG:HH11	38:DD:211:ARG:HG3	1.83	0.43
40:DF:157:VAL:HA	40:DF:176:LEU:O	2.18	0.43
40:DF:167:ALA:HA	40:DF:170:LEU:HD23	2.00	0.43
42:DH:70:THR:CG2	42:DH:74:ASN:HD21	2.31	0.43
45:DN:3:THR:O	45:DN:4:TYR:CD1	2.72	0.43
45:DN:91:LEU:HG	45:DN:98:VAL:HG21	2.01	0.43
47:DP:7:ARG:O	47:DP:10:PRO:CG	2.65	0.43
47:DP:40:SER:N	47:DP:41:ARG:HD2	2.33	0.43
47:DP:49:ARG:HH21	47:DP:50:ARG:HH22	1.66	0.43
47:DP:98:GLU:C	47:DP:101:VAL:HG22	2.43	0.43
47:DP:105:LEU:O	47:DP:106:LEU:CB	2.66	0.43
50:DS:17:ARG:HA	50:DS:20:ARG:NH2	2.33	0.43
52:DU:92:ARG:HD2	53:DV:11:GLN:HE21	1.83	0.43
55:DX:12:VAL:CG2	55:DX:17:ALA:HB1	2.47	0.43
57:DZ:82:ARG:CZ	57:DZ:82:ARG:CB	2.96	0.43
57:DZ:126:VAL:CA	57:DZ:163:LEU:HA	2.43	0.43
1:AA:869:G:H4'	1:AA:872:A:C8	2.53	0.43
1:AA:1060:C:H2'	1:AA:1061:G:C8	2.54	0.43
3:AC:73:PRO:HB3	3:AC:103:VAL:CG1	2.49	0.43
5:AE:50:GLU:CB	5:AE:53:LEU:HD12	2.43	0.43
5:AE:88:LYS:HB3	5:AE:123:LEU:HB2	2.00	0.43
6:AF:52:ILE:O	6:AF:52:ILE:HG22	2.18	0.43
6:AF:62:TRP:CB	18:AR:35:ARG:NH1	2.82	0.43
8:AH:95:VAL:HG22	8:AH:131:GLY:O	2.18	0.43
10:AJ:38:ILE:HG23	10:AJ:38:ILE:O	2.18	0.43
11:AK:20:TYR:O	11:AK:30:VAL:HA	2.18	0.43
14:AN:34:TYR:H	14:AN:34:TYR:HD1	1.64	0.43
15:AO:33:THR:O	15:AO:34:LEU:C	2.61	0.43
17:AQ:6:LEU:HD12	17:AQ:6:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:78:GLU:OE2	17:AQ:81:ARG:NH1	2.50	0.43
18:AR:53:ARG:NH2	18:AR:60:ALA:N	2.66	0.43
19:AS:28:LYS:HB3	19:AS:29:ARG:H	1.60	0.43
20:AT:53:LEU:HA	20:AT:56:MET:HB3	2.01	0.43
22:AW:30:G:H2'	22:AW:31:G:H8	1.84	0.43
35:BA:222:A:N6	35:BA:224:G:C2	2.86	0.43
35:BA:622:G:HO2'	35:BA:623:G:H5'	1.83	0.43
35:BA:674:G:H1'	40:BF:74:ARG:CD	2.47	0.43
35:BA:847:U:H2'	35:BA:848:G:H5''	1.99	0.43
35:BA:2084:C:O5'	35:BA:2084:C:H6	2.02	0.43
35:BA:2111:C:H1'	35:BA:2118:U:H5'	2.00	0.43
35:BA:2359:C:C2'	35:BA:2360:A:H5'	2.49	0.43
35:BA:2574:G:O2'	39:BE:143:ASN:HB3	2.17	0.43
37:BC:39:GLU:HG2	37:BC:181:PRO:CB	2.48	0.43
38:BD:171:ASP:O	38:BD:187:GLY:N	2.50	0.43
38:BD:206:LEU:CD2	38:BD:211:ARG:HG3	2.49	0.43
39:BE:60:ASN:C	39:BE:62:PRO:CD	2.91	0.43
41:BG:71:THR:O	41:BG:89:GLY:HA3	2.18	0.43
41:BG:97:ASP:HA	41:BG:100:TRP:HD1	1.82	0.43
41:BG:104:GLU:C	41:BG:106:LEU:H	2.27	0.43
42:BH:19:VAL:HG12	42:BH:20:ALA:N	2.34	0.43
43:BI:115:ALA:HB3	43:BI:129:THR:H	1.84	0.43
45:BN:25:ARG:HG3	45:BN:25:ARG:NH1	2.27	0.43
45:BN:58:ASP:C	45:BN:60:ILE:HG13	2.43	0.43
45:BN:68:GLU:HB2	45:BN:88:GLU:OE1	2.18	0.43
48:BQ:12:GLN:NE2	48:BQ:73:PRO:HD3	2.26	0.43
48:BQ:72:LYS:HA	48:BQ:73:PRO:HD3	1.87	0.43
51:BT:3:ARG:O	51:BT:5:ALA:N	2.52	0.43
51:BT:9:LEU:O	51:BT:11:GLU:N	2.51	0.43
51:BT:51:ARG:HD2	51:BT:51:ARG:C	2.43	0.43
54:BW:22:ASP:HA	54:BW:25:ARG:NH1	2.33	0.43
1:CA:187:C:N3	20:CT:105:SER:HB3	2.34	0.43
1:CA:967:C:H4'	9:CI:125:TYR:OH	2.18	0.43
1:CA:1353:G:O2'	1:CA:1354:C:H5'	2.19	0.43
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.82	0.43
1:CA:1456:G:OP1	1:CA:1456:G:O4'	2.37	0.43
1:CA:1492:A:C2	12:CL:47:SER:HB3	2.54	0.43
2:CB:167:PRO:O	2:CB:171:ALA:N	2.52	0.43
3:CC:114:PRO:O	3:CC:118:GLN:HG3	2.19	0.43
3:CC:121:ALA:CB	3:CC:187:ALA:HB1	2.37	0.43
3:CC:134:ILE:HD12	3:CC:166:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:9:LYS:CB	5:CE:112:LEU:HD11	2.43	0.43
5:CE:88:LYS:HD3	5:CE:123:LEU:HD12	1.99	0.43
8:CH:36:LEU:O	8:CH:45:ILE:HD11	2.18	0.43
9:CI:86:VAL:HG21	9:CI:96:LEU:CD2	2.44	0.43
10:CJ:29:ARG:O	10:CJ:29:ARG:HD2	2.18	0.43
11:CK:22:HIS:HA	11:CK:85:ARG:O	2.19	0.43
12:CL:2:PRO:O	12:CL:3:THR:C	2.60	0.43
12:CL:80:VAL:HG21	12:CL:97:ILE:CG2	2.49	0.43
12:CL:116:LYS:C	12:CL:117:TYR:HD1	2.25	0.43
13:CM:60:VAL:HG23	13:CM:61:GLU:N	2.34	0.43
14:CN:34:TYR:H	14:CN:34:TYR:HD1	1.63	0.43
16:CP:70:ALA:HA	16:CP:73:LEU:HD13	2.00	0.43
19:CS:6:LYS:HD2	19:CS:7:LYS:HE3	1.99	0.43
19:CS:36:ARG:NE	19:CS:72:GLY:HA3	2.33	0.43
20:CT:18:GLN:O	20:CT:19:SER:C	2.61	0.43
22:CW:74:C:C5'	26:D1:23:LYS:HB2	2.48	0.43
34:D9:30:PRO:HB2	35:DA:2527:C:C5'	2.48	0.43
35:DA:328:U:O2'	56:DY:71:LYS:HD3	2.18	0.43
35:DA:370:G:H4'	35:DA:371:A:OP2	2.19	0.43
35:DA:494:G:O2'	54:DW:5:ALA:O	2.33	0.43
35:DA:598:G:H5'	47:DP:15:ARG:HB2	2.01	0.43
35:DA:821:A:H2'	35:DA:946:G:H5''	2.00	0.43
35:DA:1040:C:O2'	35:DA:1041:C:P	2.76	0.43
35:DA:1191:G:O2'	35:DA:1192:G:H5'	2.17	0.43
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.18	0.43
35:DA:1446:C:O2'	35:DA:1447:G:H5'	2.18	0.43
35:DA:1459:G:H5''	35:DA:1460:A:OP1	2.17	0.43
35:DA:1573:G:H2'	35:DA:1574:C:H5'	2.01	0.43
35:DA:1587:A:H3'	35:DA:1588:C:H6	1.82	0.43
35:DA:2314:C:H2'	35:DA:2315:G:C8	2.54	0.43
35:DA:2811:G:C4'	39:DE:61:ARG:HH21	2.30	0.43
35:DA:2844:G:H3'	35:DA:2845:G:H8	1.84	0.43
35:DA:2854:G:O2'	35:DA:2855:C:H5'	2.18	0.43
36:DB:44:G:C2	36:DB:48:A:C2	3.06	0.43
38:DD:68:LYS:O	38:DD:69:ARG:HB2	2.17	0.43
39:DE:117:MET:HA	39:DE:122:PHE:N	2.31	0.43
41:DG:10:LYS:HE3	41:DG:176:LEU:HA	2.00	0.43
41:DG:62:LEU:C	41:DG:64:THR:N	2.77	0.43
41:DG:103:LEU:HA	41:DG:106:LEU:CD2	2.48	0.43
41:DG:120:LEU:O	41:DG:121:ASN:C	2.61	0.43
44:DJ:96:UNK:O	44:DJ:132:UNK:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:58:ASP:C	45:DN:60:ILE:HG13	2.43	0.43
47:DP:75:ILE:CD1	47:DP:77:ARG:HH12	2.28	0.43
47:DP:103:ALA:O	47:DP:104:GLY:C	2.61	0.43
51:DT:31:SER:C	51:DT:32:TYR:CD2	2.97	0.43
51:DT:32:TYR:O	51:DT:33:LYS:C	2.62	0.43
51:DT:105:LEU:HB2	51:DT:110:ILE:CD1	2.48	0.43
52:DU:36:ARG:O	52:DU:37:GLU:C	2.62	0.43
57:DZ:155:LEU:N	57:DZ:155:LEU:HD23	2.33	0.43
1:AA:66:G:H4'	1:AA:173:U:C5	2.53	0.43
1:AA:106:C:H2'	1:AA:107:G:C8	2.46	0.43
1:AA:191:G:O2'	1:AA:192:U:H5'	2.18	0.43
1:AA:1280:A:H5''	10:AJ:41:PRO:CD	2.49	0.43
1:AA:1316:G:H5''	14:AN:17:LYS:CE	2.49	0.43
1:AA:1347:G:C8	9:AI:107:ARG:HB2	2.54	0.43
1:AA:1360:A:O2'	1:AA:1361:G:H5'	2.18	0.43
2:AB:102:LEU:HB2	2:AB:176:GLU:HB3	2.00	0.43
2:AB:219:VAL:HA	2:AB:222:ILE:CG1	2.48	0.43
3:AC:140:ARG:HH11	3:AC:140:ARG:CB	2.31	0.43
4:AD:98:GLU:O	4:AD:103:ASN:ND2	2.52	0.43
6:AF:100:ASN:HD21	18:AR:23:LYS:CG	2.31	0.43
9:AI:107:ARG:HD3	9:AI:107:ARG:H	1.84	0.43
11:AK:22:HIS:HA	11:AK:85:ARG:O	2.19	0.43
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.81	0.43
21:AU:6:ARG:HG2	21:AU:15:ARG:NH1	2.30	0.43
35:BA:32:C:O2'	35:BA:33:U:H5'	2.18	0.43
35:BA:121:G:H4'	35:BA:149:A:H5'	2.01	0.43
35:BA:405:U:H3'	35:BA:406:G:C5'	2.48	0.43
35:BA:768:G:C6	35:BA:769:G:C5	3.07	0.43
35:BA:782:A:C6	38:BD:226:MET:HE2	2.53	0.43
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.53	0.43
35:BA:1530:C:O2'	35:BA:1531:C:P	2.76	0.43
35:BA:2689:U:H5''	35:BA:2690:C:H5'	1.98	0.43
35:BA:2893:G:H4'	35:BA:2894:G:H8	1.83	0.43
37:BC:18:LYS:HD2	37:BC:20:TYR:O	2.19	0.43
39:BE:82:ARG:O	39:BE:84:PHE:N	2.44	0.43
39:BE:188:VAL:HG23	39:BE:189:PRO:HD2	2.01	0.43
41:BG:9:ARG:C	41:BG:11:TYR:N	2.75	0.43
42:BH:137:ASP:HB3	42:BH:140:LYS:HB2	1.99	0.43
43:BI:113:ARG:HE	43:BI:131:LYS:HB2	1.84	0.43
45:BN:87:LEU:O	45:BN:88:GLU:C	2.62	0.43
46:BO:86:ILE:HD12	46:BO:86:ILE:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:17:LEU:CD1	48:BQ:39:PRO:HB2	2.48	0.43
48:BQ:29:PHE:HB3	48:BQ:65:PHE:CE2	2.53	0.43
51:BT:66:VAL:HA	51:BT:71:GLY:HA2	2.00	0.43
51:BT:106:SER:O	51:BT:107:ASP:HB3	2.18	0.43
53:BV:2:PHE:HB2	53:BV:42:GLY:CA	2.48	0.43
54:BW:44:ALA:O	54:BW:47:VAL:HG12	2.19	0.43
57:BZ:56:VAL:HG13	57:BZ:69:THR:O	2.19	0.43
57:BZ:114:GLY:O	57:BZ:115:GLY:O	2.36	0.43
57:BZ:118:GLN:O	57:BZ:120:ILE:N	2.52	0.43
1:CA:5:U:H3'	1:CA:6:G:N2	2.33	0.43
1:CA:47:C:O2	1:CA:49:U:O4	2.36	0.43
1:CA:189(B):C:O2'	1:CA:189(C):C:H5'	2.19	0.43
1:CA:341:C:H2'	1:CA:342:C:C6	2.51	0.43
1:CA:542:G:O2'	1:CA:543:C:H5'	2.18	0.43
1:CA:935:A:H61	7:CG:3:ARG:HG2	1.83	0.43
1:CA:967:C:H2'	1:CA:968:A:C8	2.54	0.43
1:CA:1016:A:H2'	1:CA:1017:G:H5'	2.01	0.43
1:CA:1226:C:O5'	13:CM:96:LEU:CD2	2.66	0.43
1:CA:1280:A:H5''	10:CJ:41:PRO:CD	2.47	0.43
1:CA:1442(A):G:H2'	51:DT:118:ARG:HH11	1.84	0.43
2:CB:137:ARG:NH1	2:CB:141:GLU:HB2	2.33	0.43
3:CC:32:LEU:HB3	3:CC:59:ARG:NH2	2.24	0.43
4:CD:110:PHE:CE2	4:CD:148:VAL:HG23	2.53	0.43
5:CE:41:VAL:O	5:CE:66:MET:HA	2.19	0.43
8:CH:33:GLU:O	8:CH:36:LEU:N	2.52	0.43
9:CI:17:VAL:HA	9:CI:63:ILE:HG12	2.00	0.43
10:CJ:22:LYS:O	10:CJ:26:ALA:HB3	2.18	0.43
28:D3:18:ASP:O	28:D3:21:ALA:HB3	2.18	0.43
29:D4:47:GLN:O	29:D4:48:ARG:CB	2.66	0.43
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.29	0.43
35:DA:34:C:HO2'	35:DA:35:G:P	2.41	0.43
35:DA:258:G:O2'	35:DA:259:G:H5'	2.19	0.43
35:DA:680:G:H2'	35:DA:681:G:C8	2.54	0.43
35:DA:958:U:H3'	35:DA:958:U:H6	1.84	0.43
35:DA:1149:G:H2'	35:DA:1150:C:H6	1.79	0.43
35:DA:1163:G:O2'	35:DA:1164:G:H5'	2.18	0.43
35:DA:1705:G:C6	35:DA:1706:U:C4	3.06	0.43
35:DA:1931:U:H2'	35:DA:1932:A:H8	1.84	0.43
35:DA:2052:G:O4'	39:DE:142:GLY:HA3	2.18	0.43
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.67	0.43
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2776:A:C6	35:DA:2778:A:C6	3.06	0.43
38:DD:242:ARG:HD3	38:DD:242:ARG:HA	1.65	0.43
39:DE:101:ARG:HB2	39:DE:201:THR:HG21	2.01	0.43
40:DF:173:VAL:HG12	40:DF:174:VAL:N	2.33	0.43
40:DF:182:ASN:N	40:DF:182:ASN:ND2	2.67	0.43
41:DG:10:LYS:HE3	41:DG:176:LEU:HD23	1.99	0.43
41:DG:38:VAL:HG22	41:DG:39:ILE:H	1.83	0.43
42:DH:7:LEU:HA	42:DH:7:LEU:HD12	1.41	0.43
42:DH:10:PRO:O	42:DH:10:PRO:CD	2.67	0.43
42:DH:141:VAL:O	42:DH:142:GLY:C	2.61	0.43
47:DP:103:ALA:O	47:DP:104:GLY:O	2.37	0.43
53:DV:98:GLU:OE1	53:DV:100:ARG:NH1	2.52	0.43
56:DY:62:GLU:OE1	56:DY:62:GLU:N	2.49	0.43
56:DY:76:CYS:HB3	56:DY:96:ILE:HD12	1.99	0.43
57:DZ:5:LEU:O	57:DZ:59:LEU:HA	2.19	0.43
57:DZ:30:ASN:O	57:DZ:31:ARG:C	2.61	0.43
57:DZ:63:ASP:HB2	57:DZ:65:GLN:HE21	1.83	0.43
57:DZ:82:ARG:NH1	57:DZ:82:ARG:CB	2.79	0.43
57:DZ:102:LEU:CD2	57:DZ:137:ILE:HB	2.48	0.43
1:AA:746:A:O2'	1:AA:747:C:H5'	2.18	0.43
1:AA:833:U:H2'	1:AA:834:C:H6	1.82	0.43
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	2.00	0.43
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.53	0.43
1:AA:1155:G:H2'	1:AA:1156:G:O4'	2.19	0.43
2:AB:21:ARG:HA	2:AB:40:HIS:ND1	2.33	0.43
3:AC:143:GLU:HA	3:AC:143:GLU:OE1	2.18	0.43
5:AE:74:GLY:HA3	5:AE:116:THR:OG1	2.19	0.43
7:AG:149:ARG:HB3	11:AK:59:TYR:CE2	2.54	0.43
8:AH:30:ARG:HB3	8:AH:30:ARG:CZ	2.49	0.43
10:AJ:16:LEU:CD2	10:AJ:94:VAL:HG22	2.49	0.43
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.83	0.43
15:AO:50:HIS:O	15:AO:53:HIS:CB	2.67	0.43
17:AQ:92:ARG:HG3	17:AQ:95:TYR:CE2	2.49	0.43
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.33	0.43
19:AS:62:ILE:O	19:AS:62:ILE:HG23	2.18	0.43
24:AY:49:ARG:HG3	24:AY:49:ARG:NH1	2.34	0.43
26:B1:83:GLU:HG3	26:B1:84:GLY:N	2.33	0.43
29:B4:24:THR:CG2	29:B4:25:TYR:N	2.75	0.43
29:B4:55:ARG:HG2	29:B4:55:ARG:HH21	1.84	0.43
33:B8:27:THR:HG22	47:BP:62:LEU:HD11	1.98	0.43
35:BA:258:G:O2'	35:BA:259:G:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:321:G:H5'	40:BF:134:GLY:O	2.19	0.43
35:BA:636:G:OP1	47:BP:132:LYS:HD2	2.19	0.43
35:BA:1023:U:H2'	35:BA:1024:G:H5'	2.00	0.43
35:BA:1045:A:H5''	35:BA:1047:G:N3	2.34	0.43
35:BA:1685:C:H2'	35:BA:1686:C:H6	1.83	0.43
35:BA:2803:C:H2'	35:BA:2804:C:C6	2.54	0.43
40:BF:162:LEU:H	40:BF:162:LEU:CD2	2.26	0.43
40:BF:182:ASN:H	40:BF:182:ASN:ND2	2.17	0.43
41:BG:9:ARG:O	41:BG:11:TYR:N	2.52	0.43
41:BG:73:ALA:HB3	41:BG:87:PRO:HG3	2.00	0.43
46:BO:24:VAL:CG2	46:BO:33:ALA:HB2	2.47	0.43
47:BP:7:ARG:O	47:BP:10:PRO:HD3	2.18	0.43
47:BP:111:ARG:NH2	47:BP:111:ARG:CG	2.81	0.43
47:BP:147:LEU:O	47:BP:148:LEU:HB2	2.19	0.43
48:BQ:2:LEU:CD1	48:BQ:69:PHE:HE1	2.31	0.43
51:BT:5:ALA:C	51:BT:7:ILE:N	2.76	0.43
51:BT:105:LEU:HB2	51:BT:110:ILE:CD1	2.48	0.43
52:BU:92:ARG:HH12	53:BV:10:LYS:HB3	1.83	0.43
53:BV:2:PHE:HB3	53:BV:3:ALA:H	1.48	0.43
55:BX:43:VAL:HG23	55:BX:51:VAL:CG2	2.49	0.43
56:BY:42:VAL:HG12	56:BY:65:ALA:HB3	2.00	0.43
56:BY:96:ILE:CG2	56:BY:97:ARG:N	2.78	0.43
1:CA:182:U:O4	1:CA:223:U:H1'	2.18	0.43
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.18	0.43
1:CA:1177:G:OP2	9:CI:97:LYS:NZ	2.50	0.43
1:CA:1391:U:H2'	1:CA:1392:G:H8	1.81	0.43
1:CA:1397:C:OP2	5:CE:24:ARG:NH2	2.51	0.43
1:CA:1431:C:O2'	1:CA:1432:G:H5'	2.19	0.43
1:CA:1475:G:C2	1:CA:1476:G:C4	3.06	0.43
2:CB:37:ASN:OD1	2:CB:37:ASN:O	2.37	0.43
2:CB:87:ARG:HH21	2:CB:223:ILE:HD12	1.83	0.43
2:CB:118:LEU:O	2:CB:120:ALA:N	2.51	0.43
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.34	0.43
2:CB:219:VAL:HA	2:CB:222:ILE:CG1	2.49	0.43
3:CC:6:HIS:HB3	14:CN:49:HIS:CD2	2.54	0.43
5:CE:102:ALA:HA	5:CE:120:THR:OG1	2.19	0.43
6:CF:42:GLU:C	6:CF:44:GLY:H	2.27	0.43
7:CG:12:LEU:HD11	7:CG:25:ALA:HB2	2.01	0.43
7:CG:49:ILE:O	7:CG:52:GLU:HB2	2.19	0.43
8:CH:12:ARG:HH11	8:CH:26:VAL:HA	1.81	0.43
9:CI:7:THR:HG22	9:CI:8:GLY:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:27:THR:CG2	9:CI:28:VAL:N	2.81	0.43
11:CK:99:GLN:HA	11:CK:105:VAL:HG13	2.01	0.43
14:CN:47:LEU:HB3	14:CN:53:LEU:HG	1.99	0.43
17:CQ:33:GLY:O	17:CQ:34:LYS:O	2.36	0.43
17:CQ:78:GLU:CD	17:CQ:81:ARG:HH11	2.27	0.43
20:CT:16:HIS:O	20:CT:19:SER:HB3	2.19	0.43
20:CT:38:LYS:HB3	20:CT:38:LYS:HE2	1.76	0.43
29:D4:22:ILE:HG22	29:D4:23:GLU:N	2.33	0.43
30:D5:33:CYS:CB	30:D5:36:CYS:HG	2.26	0.43
30:D5:49:CYS:SG	30:D5:50:GLY:N	2.92	0.43
35:DA:1265:A:OP1	35:DA:1265:A:H8	2.01	0.43
35:DA:1718:G:O2'	35:DA:1719:G:H5'	2.18	0.43
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.53	0.43
35:DA:2138:C:H2'	35:DA:2139:C:H6	1.83	0.43
35:DA:2192:G:H2'	35:DA:2193:G:C5'	2.26	0.43
35:DA:2300:G:H1	35:DA:2316:C:N4	2.16	0.43
35:DA:2759:G:N3	35:DA:2759:G:H2'	2.33	0.43
37:DC:121:GLY:O	37:DC:142:ALA:HA	2.19	0.43
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	2.01	0.43
40:DF:160:ASN:HD22	40:DF:161:GLU:N	2.16	0.43
41:DG:78:SER:O	41:DG:79:ASN:C	2.61	0.43
41:DG:88:ILE:HD13	41:DG:88:ILE:N	2.34	0.43
41:DG:106:LEU:HA	41:DG:110:ALA:HB3	2.01	0.43
42:DH:58:GLU:O	42:DH:59:ARG:C	2.62	0.43
43:DI:83:ALA:HA	43:DI:89:TYR:CD1	2.53	0.43
44:DJ:66:UNK:C	44:DJ:68:UNK:N	2.81	0.43
45:DN:66:LYS:O	45:DN:70:LYS:HB3	2.18	0.43
45:DN:91:LEU:O	45:DN:92:ALA:C	2.61	0.43
49:DR:56:LYS:HA	49:DR:84:ALA:HB1	2.01	0.43
49:DR:72:ASP:HB3	49:DR:75:LEU:CB	2.48	0.43
52:DU:27:LEU:C	52:DU:29:SER:N	2.74	0.43
57:DZ:42:VAL:HG13	57:DZ:43:GLU:N	2.34	0.43
1:AA:245:C:O2	1:AA:283:C:N3	2.52	0.43
1:AA:706:A:O4'	11:AK:29:ILE:HD13	2.18	0.43
1:AA:1003:G:H21	1:AA:1037:C:H2'	1.83	0.43
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.48	0.43
1:AA:1115:C:O2'	1:AA:1116:C:H5'	2.19	0.43
1:AA:1227:A:N3	19:AS:83:HIS:HB3	2.33	0.43
3:AC:6:HIS:HB3	14:AN:49:HIS:CD2	2.54	0.43
3:AC:51:GLY:O	3:AC:115:LEU:HD21	2.19	0.43
4:AD:24:GLU:O	4:AD:27:TYR:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:176:LEU:HD12	4:AD:182:LYS:O	2.19	0.43
5:AE:50:GLU:HG3	5:AE:52:PRO:CD	2.39	0.43
11:AK:21:ILE:CD1	11:AK:30:VAL:HG12	2.49	0.43
11:AK:114:VAL:O	11:AK:114:VAL:HG13	2.18	0.43
12:AL:108:LYS:O	12:AL:109:ASP:HB2	2.18	0.43
12:AL:116:LYS:C	12:AL:117:TYR:HD1	2.27	0.43
12:AL:124:GLU:O	12:AL:125:ALA:C	2.62	0.43
17:AQ:4:LYS:HD3	17:AQ:5:VAL:H	1.84	0.43
17:AQ:16:GLN:O	17:AQ:17:LYS:HB2	2.19	0.43
18:AR:64:ARG:C	18:AR:66:LEU:N	2.77	0.43
33:B8:53:PRO:HG2	33:B8:54:GLU:H	1.84	0.43
35:BA:55:G:O2'	35:BA:127:A:N1	2.49	0.43
35:BA:440:G:H2'	35:BA:441:U:H6	1.84	0.43
35:BA:1002:G:H2'	35:BA:1003:G:O4'	2.19	0.43
35:BA:1175:U:C4'	35:BA:1176:G:H5'	2.34	0.43
35:BA:1360:A:H5'	35:BA:1361:G:OP2	2.18	0.43
35:BA:1478:G:C2	35:BA:1479:G:C8	3.07	0.43
35:BA:2141:G:O2'	35:BA:2142:C:H5'	2.19	0.43
35:BA:2810:A:H2'	39:BE:61:ARG:HH21	1.78	0.43
39:BE:52:LEU:HA	39:BE:53:PRO:HD3	1.93	0.43
39:BE:92:THR:O	39:BE:94:GLU:N	2.52	0.43
41:BG:28:VAL:HA	41:BG:31:VAL:HG23	2.00	0.43
43:BI:81:VAL:HB	43:BI:89:TYR:O	2.19	0.43
46:BO:80:ASP:OD2	51:BT:71:GLY:HA3	2.18	0.43
46:BO:102:VAL:CG2	46:BO:121:VAL:HG22	2.49	0.43
47:BP:105:LEU:O	47:BP:106:LEU:CB	2.66	0.43
48:BQ:29:PHE:HB2	48:BQ:105:GLU:OE2	2.19	0.43
48:BQ:32:TYR:CE2	48:BQ:111:GLU:HG3	2.53	0.43
48:BQ:109:VAL:HG23	48:BQ:113:GLN:OE1	2.18	0.43
49:BR:104:ARG:CD	49:BR:109:ALA:HB3	2.42	0.43
51:BT:20:PRO:CD	51:BT:85:LYS:HB3	2.48	0.43
51:BT:20:PRO:HD2	51:BT:85:LYS:HD3	2.01	0.43
53:BV:46:VAL:HG22	53:BV:47:VAL:N	2.34	0.43
55:BX:63:LYS:O	55:BX:63:LYS:HG3	2.18	0.43
56:BY:68:HIS:HB3	56:BY:71:LYS:HG2	2.01	0.43
57:BZ:24:LEU:O	57:BZ:24:LEU:HG	2.19	0.43
57:BZ:63:ASP:O	57:BZ:65:GLN:N	2.43	0.43
1:CA:335:C:H2'	1:CA:336:C:C6	2.53	0.43
1:CA:866:C:C5'	1:CA:919:A:H5''	2.49	0.43
1:CA:965:A:C2	1:CA:969:A:C2	3.07	0.43
2:CB:21:ARG:HA	2:CB:40:HIS:ND1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:91:PRO:HB3	2:CB:155:LEU:HB2	2.01	0.43
2:CB:92:TYR:CE2	2:CB:151:GLY:HA3	2.54	0.43
2:CB:118:LEU:C	2:CB:120:ALA:N	2.69	0.43
4:CD:96:LEU:HB3	4:CD:139:ARG:NH1	2.32	0.43
4:CD:98:GLU:HA	4:CD:103:ASN:ND2	2.33	0.43
4:CD:103:ASN:OD1	4:CD:114:ARG:NE	2.52	0.43
5:CE:84:PHE:CE2	5:CE:133:TYR:HB2	2.53	0.43
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.23	0.43
8:CH:29:SER:HB3	8:CH:32:LYS:HD2	2.00	0.43
10:CJ:77:PRO:O	10:CJ:78:ASN:C	2.62	0.43
15:CO:9:GLN:O	15:CO:10:LYS:C	2.60	0.43
18:CR:38:GLU:HG3	18:CR:42:ARG:NE	2.34	0.43
33:D8:61:LEU:HG	33:D8:62:LEU:N	2.26	0.43
35:DA:300:A:P	56:DY:84:ARG:HH21	2.42	0.43
35:DA:1191:G:OP1	47:DP:35:HIS:CE1	2.72	0.43
35:DA:1465:G:H5'	35:DA:1528:A:H1'	2.01	0.43
35:DA:1963:U:O2	35:DA:1963:U:H2'	2.18	0.43
35:DA:2809:A:N1	35:DA:2892:A:H1'	2.34	0.43
38:DD:24:ILE:HD12	38:DD:25:THR:CA	2.47	0.43
38:DD:65:ILE:HD13	38:DD:65:ILE:C	2.44	0.43
38:DD:118:VAL:N	38:DD:129:ASN:OD1	2.48	0.43
39:DE:68:ALA:C	39:DE:70:ALA:N	2.77	0.43
40:DF:32:LEU:HD22	40:DF:112:MET:HE3	2.01	0.43
40:DF:67:GLN:O	40:DF:67:GLN:CG	2.37	0.43
42:DH:85:LYS:CE	42:DH:133:VAL:HB	2.49	0.43
46:DO:97:ARG:HH11	46:DO:97:ARG:HG3	1.83	0.43
46:DO:100:GLY:O	46:DO:101:PRO:O	2.36	0.43
47:DP:83:VAL:H	47:DP:115:LEU:CD2	2.32	0.43
48:DQ:35:VAL:HG23	48:DQ:101:ARG:C	2.43	0.43
50:DS:72:ALA:O	50:DS:76:LYS:HG3	2.18	0.43
54:DW:40:ASN:C	54:DW:41:LYS:HG2	2.44	0.43
56:DY:81:LYS:CD	56:DY:96:ILE:HG21	2.49	0.43
57:DZ:165:VAL:CG1	57:DZ:166:SER:H	2.12	0.43
1:AA:355:C:H5'	1:AA:389:A:OP2	2.19	0.43
1:AA:542:G:O2'	1:AA:543:C:H5'	2.19	0.43
1:AA:596:C:H2'	1:AA:597:G:O4'	2.18	0.43
1:AA:967:C:H4'	9:AI:125:TYR:OH	2.19	0.43
1:AA:1149:C:OP1	9:AI:14:VAL:HG21	2.19	0.43
1:AA:1321:C:H5''	1:AA:1322:C:H2'	2.01	0.43
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.19	0.43
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1466:C:H2'	1:AA:1467:G:O4'	2.19	0.43
2:AB:118:LEU:O	2:AB:120:ALA:N	2.52	0.43
3:AC:67:THR:HG22	3:AC:69:HIS:CD2	2.54	0.43
3:AC:147:LYS:HG3	3:AC:204:LEU:C	2.43	0.43
4:AD:54:TYR:O	4:AD:55:ALA:C	2.61	0.43
5:AE:64:ARG:HG3	5:AE:64:ARG:NH1	2.34	0.43
5:AE:126:ARG:HG3	5:AE:126:ARG:NH1	2.34	0.43
7:AG:150:ALA:HA	11:AK:59:TYR:HB3	2.00	0.43
8:AH:8:ASP:O	8:AH:9:MET:C	2.62	0.43
9:AI:128:ARG:HG2	9:AI:128:ARG:OXT	2.19	0.43
10:AJ:77:PRO:O	10:AJ:78:ASN:C	2.62	0.43
11:AK:57:THR:O	11:AK:60:ALA:HB3	2.19	0.43
11:AK:58:PRO:HG2	11:AK:59:TYR:H	1.83	0.43
13:AM:16:ASP:OD2	13:AM:17:VAL:HG23	2.19	0.43
15:AO:9:GLN:O	15:AO:10:LYS:C	2.62	0.43
19:AS:58:VAL:O	19:AS:59:PRO:C	2.62	0.43
22:AV:56:C:H1'	41:BG:76:SER:HB2	2.01	0.43
23:AX:23:A:C8	23:AX:23:A:C4'	3.02	0.43
26:B1:47:GLN:NE2	35:BA:2090:G:N2	2.67	0.43
27:B2:44:LEU:HD12	27:B2:44:LEU:N	2.32	0.43
29:B4:15:ILE:HG22	29:B4:15:ILE:O	2.19	0.43
31:B6:25:LYS:HE3	35:BA:2285:C:N4	2.34	0.43
35:BA:735:A:C8	35:BA:736:C:C5	3.07	0.43
35:BA:774:A:H2	35:BA:787:U:O2'	1.80	0.43
35:BA:1491:G:O4'	38:BD:99:ASP:HB3	2.19	0.43
35:BA:2136:C:H2'	35:BA:2137:C:H5'	2.01	0.43
35:BA:2199:A:H2'	35:BA:2199:A:N3	2.34	0.43
35:BA:2637:U:O2'	35:BA:2638:G:H5'	2.19	0.43
35:BA:2773:C:OP1	39:BE:164:ARG:NE	2.51	0.43
35:BA:2809:A:N1	35:BA:2892:A:H1'	2.34	0.43
39:BE:111:ARG:HA	49:BR:2:ARG:HB3	2.01	0.43
40:BF:24:LEU:CD1	40:BF:24:LEU:C	2.92	0.43
40:BF:183:VAL:O	40:BF:187:VAL:HG23	2.19	0.43
41:BG:16:ARG:HH21	41:BG:31:VAL:CB	2.24	0.43
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.18	0.43
42:BH:141:VAL:C	42:BH:143:GLN:N	2.76	0.43
42:BH:157:TYR:CD1	42:BH:170:ARG:O	2.72	0.43
43:BI:83:ALA:HB3	43:BI:144:VAL:HG13	1.99	0.43
45:BN:25:ARG:CG	45:BN:25:ARG:NH1	2.80	0.43
45:BN:36:GLY:HA3	45:BN:48:MET:HE1	2.00	0.43
45:BN:119:ARG:HH11	45:BN:119:ARG:HG3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:8:LEU:CD1	46:BO:82:ASN:HB3	2.49	0.43
46:BO:47:ILE:CG1	46:BO:48:PRO:HD2	2.45	0.43
50:BS:68:GLN:C	50:BS:70:GLY:H	2.26	0.43
51:BT:57:PHE:CD2	51:BT:58:ASN:N	2.77	0.43
52:BU:86:ALA:HB3	52:BU:88:ILE:HG12	2.01	0.43
55:BX:55:ASN:HB2	55:BX:80:ILE:HG23	2.01	0.43
56:BY:76:CYS:HB3	56:BY:96:ILE:HD12	1.99	0.43
56:BY:91:GLU:HB3	56:BY:92:ASN:H	1.63	0.43
57:BZ:135:GLU:HB3	57:BZ:136:PHE:H	1.66	0.43
1:CA:129(A):G:H21	1:CA:189(F):U:H5''	1.84	0.43
1:CA:590:C:O2'	1:CA:591:U:H5'	2.18	0.43
1:CA:662:G:H2'	1:CA:663:A:C8	2.53	0.43
1:CA:898:G:O2'	1:CA:900:A:N7	2.45	0.43
1:CA:902:G:H2'	1:CA:903:G:C8	2.54	0.43
1:CA:947:G:H4'	1:CA:1332:A:C2	2.45	0.43
1:CA:974:A:OP1	1:CA:974:A:H8	2.01	0.43
1:CA:1256:A:H2	1:CA:1277:C:C6	2.37	0.43
1:CA:1308:U:H5''	13:CM:98:VAL:N	2.34	0.43
2:CB:43:ASP:OD2	2:CB:46:LYS:NZ	2.46	0.43
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	2.01	0.43
3:CC:130:VAL:O	3:CC:130:VAL:HG12	2.18	0.43
3:CC:182:ILE:HG23	3:CC:202:ILE:N	2.33	0.43
6:CF:10:LEU:HD13	6:CF:61:LEU:HD13	2.01	0.43
7:CG:26:PHE:HZ	7:CG:120:ILE:HG23	1.82	0.43
7:CG:77:SER:OG	22:CW:32:C:H5''	2.18	0.43
7:CG:83:ALA:HB1	22:CW:38:A:C2	2.54	0.43
10:CJ:62:HIS:CD2	10:CJ:62:HIS:N	2.86	0.43
11:CK:114:VAL:O	11:CK:114:VAL:HG13	2.19	0.43
14:CN:12:ARG:O	14:CN:13:THR:C	2.62	0.43
17:CQ:81:ARG:HD2	17:CQ:81:ARG:HA	1.87	0.43
18:CR:53:ARG:C	18:CR:55:ARG:H	2.27	0.43
19:CS:67:VAL:HG23	19:CS:68:GLY:H	1.82	0.43
22:CV:8:U:C2	22:CV:15:G:C6	3.07	0.43
22:CW:6:G:N2	22:CW:68:C:H41	2.05	0.43
35:DA:310:A:P	56:DY:18:GLY:HA2	2.59	0.43
35:DA:579:G:H2'	35:DA:580:C:C6	2.53	0.43
35:DA:781:A:H2	35:DA:1776:G:N3	2.17	0.43
35:DA:953:A:C2'	35:DA:954:G:H5'	2.49	0.43
35:DA:1572:A:H2'	35:DA:1573:G:O4'	2.19	0.43
35:DA:1788:C:O5'	35:DA:1788:C:H6	2.02	0.43
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2199:A:H2'	35:DA:2199:A:N3	2.33	0.43
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.54	0.43
36:DB:87:G:H1	36:DB:91:C:N4	2.17	0.43
39:DE:38:THR:C	39:DE:40:GLU:H	2.26	0.43
39:DE:69:LYS:C	39:DE:71:GLY:H	2.27	0.43
39:DE:119:ARG:HD2	39:DE:120:TRP:CD1	2.53	0.43
40:DF:89:VAL:O	40:DF:90:PHE:C	2.62	0.43
40:DF:182:ASN:H	40:DF:182:ASN:ND2	2.16	0.43
44:DJ:94:UNK:C	44:DJ:96:UNK:N	2.79	0.43
46:DO:10:VAL:HG21	46:DO:16:ALA:O	2.19	0.43
47:DP:35:HIS:O	47:DP:36:LYS:CB	2.67	0.43
48:DQ:17:LEU:CD1	48:DQ:39:PRO:HB2	2.48	0.43
50:DS:29:PHE:O	50:DS:35:ILE:HA	2.18	0.43
51:DT:56:GLY:C	51:DT:57:PHE:O	2.61	0.43
51:DT:125:ARG:C	51:DT:127:ALA:N	2.77	0.43
55:DX:63:LYS:O	55:DX:63:LYS:HG3	2.18	0.43
56:DY:57:GLN:N	56:DY:57:GLN:CD	2.77	0.43
57:DZ:103:ARG:HD2	57:DZ:136:PHE:CG	2.53	0.43
57:DZ:107:THR:H	57:DZ:142:SER:HA	1.84	0.43
57:DZ:141:VAL:HA	57:DZ:144:LEU:HD23	2.01	0.43
1:AA:324:G:N2	1:AA:327:A:C8	2.87	0.43
1:AA:356:A:H1'	1:AA:368:U:HO2'	1.84	0.43
1:AA:386:C:H2'	1:AA:387:U:C5'	2.47	0.43
1:AA:460:G:N2	1:AA:471:G:N7	2.67	0.43
1:AA:555:C:H2'	1:AA:556:C:C6	2.46	0.43
1:AA:560:U:H4'	1:AA:561:U:H5''	1.99	0.43
1:AA:594:G:H2'	1:AA:595:G:O4'	2.19	0.43
1:AA:662:G:H2'	1:AA:663:A:C8	2.54	0.43
1:AA:882:C:O2'	1:AA:883:C:H5'	2.19	0.43
1:AA:915:A:H2'	1:AA:916:G:O4'	2.19	0.43
1:AA:947:G:H2'	1:AA:948:C:H6	1.82	0.43
1:AA:1006:C:H2'	1:AA:1007:C:C2	2.54	0.43
1:AA:1116:C:O2'	9:AI:108:VAL:HG21	2.19	0.43
1:AA:1251:A:H5'	9:AI:12:GLU:HB3	1.99	0.43
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.53	0.43
2:AB:137:ARG:C	2:AB:137:ARG:HH11	2.26	0.43
2:AB:189:ASP:CG	2:AB:190:THR:N	2.77	0.43
4:AD:85:LYS:C	4:AD:86:LYS:HE3	2.44	0.43
4:AD:96:LEU:HB3	4:AD:139:ARG:NH1	2.34	0.43
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	2.19	0.43
7:AG:26:PHE:HZ	7:AG:120:ILE:HG23	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:64:GLN:O	7:AG:65:ALA:C	2.62	0.43
7:AG:85:TYR:HD1	7:AG:154:TYR:HE1	1.66	0.43
8:AH:12:ARG:HH11	8:AH:26:VAL:HA	1.80	0.43
8:AH:82:HIS:CE1	8:AH:84:ARG:HB2	2.54	0.43
14:AN:21:TYR:CE2	14:AN:23:ARG:NH2	2.87	0.43
15:AO:18:PHE:C	15:AO:18:PHE:CD1	2.96	0.43
15:AO:65:ARG:O	15:AO:68:ARG:N	2.52	0.43
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	2.19	0.43
17:AQ:65:ILE:H	17:AQ:65:ILE:CD1	2.28	0.43
18:AR:74:ARG:HA	18:AR:79:LEU:O	2.19	0.43
19:AS:9:VAL:C	19:AS:11:VAL:N	2.77	0.43
19:AS:13:ASP:O	19:AS:15:LEU:N	2.52	0.43
19:AS:36:ARG:NE	19:AS:72:GLY:HA3	2.34	0.43
20:AT:72:LEU:CD1	20:AT:77:ALA:HA	2.49	0.43
24:AY:31:THR:OG1	24:AY:53:GLU:OE1	2.25	0.43
29:B4:3:GLU:HA	29:B4:6:HIS:HE1	1.84	0.43
32:B7:40:TRP:CD2	35:BA:459:U:H5''	2.53	0.43
33:B8:33:ASN:HB2	35:BA:2420:C:OP2	2.19	0.43
34:B9:22:ARG:NH1	35:BA:2741:A:H5''	2.34	0.43
35:BA:272(E):G:C2	35:BA:364:C:N3	2.86	0.43
35:BA:663:G:C6	35:BA:664:C:C4	3.07	0.43
35:BA:1025:G:C4	35:BA:1135:C:H1'	2.54	0.43
35:BA:1223:G:C5'	35:BA:1224:C:OP2	2.67	0.43
35:BA:1514:U:H2'	35:BA:1515:G:C8	2.54	0.43
35:BA:1547:C:H2'	35:BA:1548:C:C6	2.54	0.43
35:BA:1833:U:C2	35:BA:1834:U:C6	3.07	0.43
35:BA:2257:U:H2'	35:BA:2258:C:C6	2.53	0.43
35:BA:2359:C:O2'	35:BA:2360:A:H5'	2.19	0.43
35:BA:2415:G:H4'	47:BP:67:MET:N	2.33	0.43
35:BA:2558:C:H2'	35:BA:2559:C:H6	1.84	0.43
35:BA:2756:U:H4'	35:BA:2757:A:OP1	2.19	0.43
38:BD:122:ASP:O	38:BD:123:ALA:O	2.37	0.43
39:BE:51:PHE:H	39:BE:74:PRO:CB	2.31	0.43
40:BF:3:GLU:HA	40:BF:24:LEU:HB2	1.99	0.43
40:BF:3:GLU:O	40:BF:19:GLU:HA	2.19	0.43
42:BH:141:VAL:O	42:BH:142:GLY:C	2.61	0.43
45:BN:24:GLY:C	45:BN:26:LEU:H	2.27	0.43
50:BS:96:GLY:O	50:BS:98:VAL:N	2.52	0.43
52:BU:103:PRO:HD2	52:BU:104:GLN:HE22	1.83	0.43
55:BX:80:ILE:C	55:BX:80:ILE:CD1	2.91	0.43
57:BZ:97:GLU:HB3	57:BZ:125:LEU:CD2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:124:ILE:CD1	57:BZ:155:LEU:HD11	2.48	0.43
1:CA:37:U:H2'	1:CA:38:G:C4'	2.46	0.43
1:CA:261:U:C5	20:CT:79:ARG:CZ	3.02	0.43
1:CA:295:C:H2'	1:CA:296:U:C6	2.54	0.43
1:CA:300:A:H2'	1:CA:301:G:H5'	2.00	0.43
1:CA:300:A:H2	1:CA:566:G:O6	2.02	0.43
1:CA:697:U:C2'	1:CA:698:G:H5'	2.49	0.43
1:CA:979:C:H2'	1:CA:980:C:H5''	2.01	0.43
1:CA:1054:C:O2	1:CA:1054:C:H2'	2.18	0.43
1:CA:1135:U:H4'	1:CA:1136:U:H5	1.83	0.43
1:CA:1348:U:H4'	9:CI:120:ARG:NH1	2.33	0.43
1:CA:1375:A:H4'	7:CG:29:LYS:NZ	2.34	0.43
1:CA:1397:C:H3'	1:CA:1397:C:H6	1.84	0.43
2:CB:24:TRP:CG	2:CB:25:ASN:N	2.85	0.43
2:CB:220:ASP:C	2:CB:222:ILE:H	2.27	0.43
3:CC:93:LYS:HB2	3:CC:93:LYS:NZ	2.07	0.43
4:CD:54:TYR:O	4:CD:55:ALA:C	2.62	0.43
4:CD:85:LYS:C	4:CD:86:LYS:HE3	2.43	0.43
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.19	0.43
5:CE:41:VAL:HG23	5:CE:67:VAL:HG11	2.01	0.43
6:CF:100:ASN:ND2	18:CR:23:LYS:HZ2	2.16	0.43
7:CG:85:TYR:HD1	7:CG:154:TYR:HE1	1.67	0.43
9:CI:121:ARG:HH22	9:CI:124:GLN:HE22	1.67	0.43
10:CJ:27:ALA:HA	10:CJ:30:SER:HB2	2.00	0.43
13:CM:15:VAL:HG22	13:CM:43:THR:O	2.19	0.43
26:D1:10:LYS:NZ	35:DA:397:G:OP2	2.42	0.43
27:D2:16:LEU:HD22	27:D2:20:GLU:HB3	2.00	0.43
29:D4:3:GLU:HA	29:D4:6:HIS:CE1	2.53	0.43
29:D4:15:ILE:HG22	29:D4:15:ILE:O	2.18	0.43
31:D6:25:LYS:HE3	35:DA:2285:C:N4	2.34	0.43
35:DA:64:A:H5'	55:DX:64:LYS:CE	2.38	0.43
35:DA:140:G:N3	35:DA:142:A:N1	2.67	0.43
35:DA:171:G:H2'	35:DA:172:C:C6	2.53	0.43
35:DA:272(B):G:H1	35:DA:366:C:N4	2.16	0.43
35:DA:321:G:H5'	40:DF:134:GLY:O	2.18	0.43
35:DA:620:G:H8	35:DA:622:G:O6	2.02	0.43
35:DA:812:C:H3'	47:DP:25:SER:OG	2.19	0.43
35:DA:961:C:N4	35:DA:2031:A:H1'	2.33	0.43
35:DA:996:A:O2'	35:DA:997:G:H5'	2.19	0.43
35:DA:1023:U:H2'	35:DA:1024:G:H5'	2.00	0.43
35:DA:1144:G:H2'	35:DA:1145:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1588:C:H2'	35:DA:1589:C:H6	1.84	0.43
35:DA:1926:U:H2'	35:DA:1928:A:OP2	2.18	0.43
35:DA:2141:G:O2'	35:DA:2142:C:H5'	2.19	0.43
35:DA:2163:C:H5''	35:DA:2172:U:OP2	2.18	0.43
35:DA:2332:U:O5'	35:DA:2332:U:H6	2.01	0.43
35:DA:2360:A:O2'	35:DA:2361:A:H5''	2.19	0.43
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.53	0.43
35:DA:2767:C:C2	35:DA:2768:C:C5	3.07	0.43
35:DA:2822:G:O6	49:DR:4:LEU:HD23	2.19	0.43
36:DB:35:U:H2'	36:DB:36:C:O4'	2.19	0.43
41:DG:12:TYR:HD2	41:DG:16:ARG:HD2	1.84	0.43
46:DO:12:ASP:C	46:DO:99:PHE:HE2	2.27	0.43
47:DP:38:GLN:CG	47:DP:39:LYS:N	2.73	0.43
48:DQ:26:TYR:HA	48:DQ:137:TYR:HD1	1.83	0.43
48:DQ:89:ASN:HD22	48:DQ:89:ASN:HA	1.53	0.43
49:DR:101:ALA:O	49:DR:102:GLU:HB2	2.18	0.43
52:DU:92:ARG:HH12	53:DV:10:LYS:HB3	1.83	0.43
53:DV:19:LYS:C	53:DV:20:LEU:HD12	2.44	0.43
57:DZ:144:LEU:HG	57:DZ:150:LEU:CD2	2.40	0.43
1:AA:235:C:H2'	1:AA:236:G:C8	2.48	0.42
1:AA:775:G:H2'	1:AA:776:G:H8	1.84	0.42
1:AA:853:G:O2'	1:AA:854:G:H5'	2.19	0.42
1:AA:968:A:H4'	1:AA:969:A:OP2	2.18	0.42
1:AA:977:A:H2'	1:AA:978:A:H5'	1.99	0.42
1:AA:1256:A:H2	1:AA:1277:C:C6	2.37	0.42
2:AB:57:PHE:CE2	2:AB:185:ILE:HD11	2.53	0.42
2:AB:137:ARG:NH1	2:AB:141:GLU:HB2	2.34	0.42
3:AC:32:LEU:O	3:AC:35:GLU:HB3	2.19	0.42
3:AC:59:ARG:HG2	3:AC:64:VAL:HA	2.01	0.42
3:AC:108:ASN:OD1	3:AC:110:ASN:HB2	2.19	0.42
3:AC:113:ALA:C	3:AC:115:LEU:N	2.77	0.42
3:AC:134:ILE:CG2	3:AC:151:VAL:HB	2.48	0.42
4:AD:170:VAL:HG12	4:AD:171:GLY:N	2.34	0.42
5:AE:75:THR:HG21	5:AE:94:ALA:O	2.19	0.42
5:AE:153:LYS:O	5:AE:155:GLU:N	2.52	0.42
7:AG:79:ARG:HB2	7:AG:84:ASN:ND2	2.32	0.42
8:AH:120:THR:O	8:AH:121:ASP:C	2.61	0.42
10:AJ:27:ALA:HA	10:AJ:30:SER:HB2	2.01	0.42
10:AJ:70:ARG:HH11	10:AJ:70:ARG:HG2	1.83	0.42
14:AN:12:ARG:O	14:AN:13:THR:C	2.62	0.42
31:B6:30:THR:O	31:B6:32:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.32	0.42
35:BA:21:A:H2'	35:BA:22:C:C6	2.54	0.42
35:BA:221:A:N6	35:BA:265:A:C8	2.84	0.42
35:BA:235:U:H2'	35:BA:236:C:C6	2.54	0.42
35:BA:1129:A:C2	35:BA:2569:G:N3	2.87	0.42
35:BA:1270:C:H5''	35:BA:1271:G:H5'	2.00	0.42
35:BA:1485:G:N2	35:BA:1505:C:C6	2.82	0.42
35:BA:1790:C:H5''	35:BA:1791:A:OP1	2.19	0.42
35:BA:2406:U:N3	47:BP:72:PRO:HG2	2.34	0.42
35:BA:2410:G:N2	35:BA:2411:A:H1'	2.34	0.42
35:BA:2578:G:OP2	35:BA:2578:G:H4'	2.19	0.42
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.19	0.42
39:BE:65:GLY:HA2	39:BE:70:ALA:HB1	2.00	0.42
40:BF:20:LEU:O	40:BF:21:ALA:O	2.37	0.42
40:BF:205:ARG:O	40:BF:206:ILE:HD13	2.18	0.42
41:BG:4:ASP:HA	41:BG:8:LYS:HD3	2.01	0.42
41:BG:15:VAL:O	41:BG:16:ARG:C	2.62	0.42
43:BI:92:VAL:CG1	43:BI:120:ILE:HD12	2.49	0.42
43:BI:94:ALA:HB2	43:BI:116:LEU:HD23	2.01	0.42
44:BJ:72:UNK:C	44:BJ:74:UNK:N	2.82	0.42
46:BO:93:PRO:C	46:BO:95:GLY:H	2.26	0.42
46:BO:101:PRO:O	46:BO:102:VAL:HG13	2.19	0.42
47:BP:7:ARG:O	47:BP:10:PRO:CG	2.66	0.42
47:BP:88:LEU:O	47:BP:90:ARG:N	2.52	0.42
47:BP:94:GLU:HG2	47:BP:96:THR:HG23	2.01	0.42
48:BQ:38:GLU:HG3	48:BQ:127:ILE:HG22	1.99	0.42
49:BR:49:ASP:C	49:BR:51:LEU:H	2.27	0.42
53:BV:69:LYS:HA	53:BV:88:ARG:HG2	2.01	0.42
54:BW:44:ALA:O	54:BW:45:TYR:C	2.61	0.42
54:BW:75:TYR:CD2	54:BW:75:TYR:C	2.97	0.42
56:BY:38:ILE:CG2	56:BY:39:VAL:N	2.82	0.42
57:BZ:2:GLU:O	57:BZ:56:VAL:O	2.37	0.42
57:BZ:125:LEU:O	57:BZ:165:VAL:HG23	2.19	0.42
57:BZ:171:ILE:CG1	57:BZ:172:ALA:H	2.32	0.42
1:CA:227:G:O2'	1:CA:228:A:H5'	2.19	0.42
1:CA:613:C:H2'	1:CA:614:A:C5'	2.36	0.42
1:CA:633:G:O2'	1:CA:634:C:H5'	2.18	0.42
1:CA:832:C:N4	1:CA:855:G:O6	2.52	0.42
1:CA:863:U:H2'	1:CA:865:A:OP2	2.19	0.42
1:CA:1128:C:H1'	1:CA:1146:A:N6	2.25	0.42
1:CA:1241:G:H1	1:CA:1296:C:N4	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1313:U:OP2	19:CS:6:LYS:HE2	2.19	0.42
2:CB:74:LYS:O	2:CB:76:GLN:N	2.52	0.42
3:CC:9:GLY:CA	14:CN:49:HIS:HA	2.48	0.42
3:CC:195:VAL:HG12	3:CC:196:LEU:N	2.33	0.42
4:CD:36:ARG:HH11	4:CD:36:ARG:HG2	1.83	0.42
6:CF:30:LEU:HD23	6:CF:30:LEU:H	1.83	0.42
7:CG:136:LYS:NZ	7:CG:136:LYS:HB3	2.33	0.42
8:CH:29:SER:O	8:CH:32:LYS:N	2.52	0.42
9:CI:37:PHE:CE1	9:CI:74:ILE:HG12	2.54	0.42
9:CI:98:PRO:O	9:CI:99:LEU:HD22	2.19	0.42
9:CI:114:TYR:N	9:CI:114:TYR:HD2	2.17	0.42
12:CL:124:GLU:O	12:CL:125:ALA:C	2.61	0.42
13:CM:90:LEU:O	13:CM:98:VAL:HG21	2.19	0.42
15:CO:82:ILE:CG2	15:CO:83:GLU:H	2.29	0.42
19:CS:62:ILE:HG23	19:CS:62:ILE:O	2.19	0.42
22:CV:32:C:H2'	22:CV:33:U:H6	1.84	0.42
22:CV:59:A:H2'	22:CV:60:U:C5'	2.47	0.42
22:CW:42:G:O2'	22:CW:43:A:H5'	2.19	0.42
26:D1:3:LYS:HD2	26:D1:3:LYS:HA	1.81	0.42
35:DA:71:A:H5''	35:DA:73:A:C8	2.54	0.42
35:DA:84:A:H2	35:DA:98:G:N3	2.17	0.42
35:DA:264:C:O2'	35:DA:265:A:H2'	2.19	0.42
35:DA:357:A:H2'	35:DA:358:U:C6	2.54	0.42
35:DA:405:U:H3'	35:DA:406:G:C5'	2.50	0.42
35:DA:486:C:H4'	54:DW:60:ASN:HD21	1.83	0.42
35:DA:826:U:H4'	47:DP:55:ARG:CB	2.49	0.42
35:DA:1368:G:H2'	35:DA:1369:G:H8	1.83	0.42
35:DA:1544:A:H2	35:DA:1545:A:C2	2.37	0.42
35:DA:1688:U:H5'	35:DA:1689:A:OP1	2.19	0.42
35:DA:1820:U:O2	38:DD:201:HIS:HB3	2.19	0.42
35:DA:2360:A:O2'	35:DA:2361:A:H8	2.02	0.42
35:DA:2582:G:O2'	35:DA:2583:G:H5'	2.19	0.42
35:DA:2748:A:C6	35:DA:2749:A:C5	3.07	0.42
35:DA:2803:C:H2'	35:DA:2804:C:C6	2.54	0.42
35:DA:2810:A:H2'	39:DE:61:ARG:HH21	1.79	0.42
35:DA:2845:G:O2'	35:DA:2846:G:H5'	2.18	0.42
36:DB:42:C:N4	41:DG:91:ARG:NH2	2.66	0.42
40:DF:118:ALA:HB2	40:DF:123:LEU:CD2	2.48	0.42
41:DG:106:LEU:CD1	41:DG:107:LEU:HG	2.47	0.42
44:DJ:97:UNK:HA	44:DJ:133:UNK:N	2.34	0.42
45:DN:34:LEU:HD13	45:DN:34:LEU:HA	1.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:116:LEU:O	45:DN:117:PHE:C	2.60	0.42
47:DP:35:HIS:O	47:DP:36:LYS:HB2	2.19	0.42
49:DR:77:ARG:C	49:DR:79:LEU:N	2.76	0.42
51:DT:38:ASN:CG	51:DT:39:ARG:H	2.25	0.42
53:DV:48:GLY:O	53:DV:49:THR:HG23	2.19	0.42
56:DY:76:CYS:HB3	56:DY:96:ILE:HD11	2.01	0.42
1:AA:421:U:O2	1:AA:421:U:C2'	2.62	0.42
1:AA:1054:C:OP1	1:AA:1198:G:OP2	2.37	0.42
1:AA:1116:C:H2'	1:AA:1117:G:C4'	2.49	0.42
1:AA:1492:A:N6	12:AL:43:LYS:O	2.52	0.42
2:AB:51:LEU:HD22	2:AB:55:PHE:HE2	1.84	0.42
2:AB:104:ASN:O	2:AB:104:ASN:OD1	2.37	0.42
3:AC:33:LEU:HD11	14:AN:53:LEU:CD2	2.46	0.42
3:AC:74:GLY:C	3:AC:76:VAL:H	2.27	0.42
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	2.01	0.42
5:AE:106:PRO:O	5:AE:110:LEU:HG	2.19	0.42
6:AF:10:LEU:HD13	6:AF:61:LEU:HD13	2.01	0.42
8:AH:102:ARG:HD3	8:AH:102:ARG:N	2.33	0.42
9:AI:10:ARG:HA	9:AI:104:ARG:NH1	2.34	0.42
9:AI:97:LYS:C	9:AI:99:LEU:N	2.77	0.42
10:AJ:22:LYS:HE3	10:AJ:22:LYS:HB3	1.87	0.42
11:AK:77:MET:CG	11:AK:80:VAL:HG11	2.50	0.42
11:AK:101:SER:OG	11:AK:103:LEU:HD23	2.18	0.42
13:AM:97:PRO:O	13:AM:98:VAL:HA	2.18	0.42
15:AO:36:ILE:O	15:AO:37:ASN:C	2.61	0.42
17:AQ:45:HIS:NE2	17:AQ:47:PRO:HD3	2.34	0.42
21:AU:20:LYS:C	21:AU:22:ARG:N	2.72	0.42
29:B4:22:ILE:HG22	29:B4:23:GLU:N	2.34	0.42
33:B8:25:MET:SD	47:BP:64:LYS:HD2	2.59	0.42
35:BA:69:C:O2'	35:BA:70:G:H5'	2.19	0.42
35:BA:299:A:N1	35:BA:322:A:O2'	2.42	0.42
35:BA:360:G:H2'	35:BA:361:G:H8	1.83	0.42
35:BA:475:U:H4'	35:BA:510:C:H5'	2.01	0.42
35:BA:527:C:C5	35:BA:2779:U:H2'	2.53	0.42
35:BA:542:C:C2'	35:BA:543:C:OP1	2.67	0.42
35:BA:782:A:O2'	35:BA:1788:C:H4'	2.19	0.42
35:BA:857:C:N3	35:BA:858:U:C5	2.87	0.42
35:BA:996:A:H4'	52:BU:92:ARG:NE	2.34	0.42
35:BA:1533:G:O2'	35:BA:1543:C:OP1	2.37	0.42
35:BA:1578:U:H2'	35:BA:1579:A:C5'	2.49	0.42
35:BA:1790:C:C5	35:BA:1828:G:C2	3.06	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1963:U:O2	35:BA:1963:U:H2'	2.19	0.42
35:BA:2134:A:N6	35:BA:2158:A:C4	2.87	0.42
35:BA:2166:G:H2'	35:BA:2167:U:H5'	2.01	0.42
35:BA:2262:U:H4'	35:BA:2328:A:H2	1.84	0.42
35:BA:2502:G:H5''	35:BA:2503:A:H5''	2.00	0.42
35:BA:2801(A):A:H4'	35:BA:2802:G:C2'	2.48	0.42
35:BA:2811:G:O2'	35:BA:2812:G:H5'	2.18	0.42
35:BA:2844:G:H3'	35:BA:2845:G:H8	1.84	0.42
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.54	0.42
38:BD:52:ARG:H	38:BD:52:ARG:HG2	1.40	0.42
39:BE:4:ILE:HG12	39:BE:5:LEU:N	2.33	0.42
39:BE:101:ARG:HB2	39:BE:201:THR:HG21	2.00	0.42
39:BE:111:ARG:NE	49:BR:2:ARG:CZ	2.82	0.42
40:BF:164:ARG:HG2	40:BF:164:ARG:NH1	2.34	0.42
41:BG:18:GLU:C	41:BG:18:GLU:CD	2.87	0.42
41:BG:121:ASN:ND2	41:BG:121:ASN:C	2.75	0.42
47:BP:7:ARG:HB2	47:BP:8:PRO:CD	2.50	0.42
47:BP:63:PRO:C	47:BP:65:ARG:H	2.26	0.42
47:BP:75:ILE:H	47:BP:75:ILE:CD1	2.17	0.42
50:BS:14:VAL:O	50:BS:16:ASN:N	2.52	0.42
50:BS:29:PHE:O	50:BS:35:ILE:HA	2.18	0.42
51:BT:114:LEU:O	51:BT:115:ARG:O	2.38	0.42
52:BU:93:LYS:H	52:BU:93:LYS:CD	2.32	0.42
53:BV:1:MET:CB	53:BV:99:ILE:HG13	2.49	0.42
57:BZ:29:TYR:HA	57:BZ:33:LEU:O	2.18	0.42
1:CA:131:C:H2'	1:CA:132:C:H6	1.84	0.42
1:CA:166:G:H2'	1:CA:167:G:C8	2.54	0.42
1:CA:460:G:N2	1:CA:471:G:N7	2.67	0.42
1:CA:575:G:H4'	1:CA:576:G:C5'	2.49	0.42
1:CA:1057:G:H5''	3:CC:154:SER:OG	2.19	0.42
1:CA:1445:C:N4	1:CA:1458:G:N1	2.65	0.42
2:CB:182:ILE:O	2:CB:183:PRO:C	2.62	0.42
3:CC:33:LEU:HD11	14:CN:53:LEU:CD2	2.49	0.42
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	2.01	0.42
3:CC:78:GLY:O	3:CC:79:ARG:CB	2.66	0.42
4:CD:158:ILE:HG23	4:CD:162:LEU:HD11	2.02	0.42
9:CI:50:LEU:HD21	9:CI:81:ILE:CG2	2.49	0.42
9:CI:77:ILE:O	9:CI:81:ILE:HG13	2.19	0.42
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	2.18	0.42
11:CK:125:PHE:C	11:CK:127:LYS:N	2.76	0.42
13:CM:79:LYS:C	13:CM:82:MET:HB3	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:107:ALA:C	13:CM:109:THR:N	2.77	0.42
14:CN:17:LYS:O	14:CN:19:ARG:N	2.53	0.42
16:CP:74:LEU:HB2	16:CP:80:PHE:CE1	2.54	0.42
20:CT:67:ALA:HB2	20:CT:77:ALA:CB	2.50	0.42
22:CV:52:G:C2'	22:CV:53:G:H5'	2.47	0.42
58:CX:15:A:O2'	58:CX:16:A:P	2.76	0.42
24:CY:12:ALA:HA	24:CY:13:PRO:HD3	1.81	0.42
26:D1:40:ARG:HE	26:D1:40:ARG:HB2	1.54	0.42
26:D1:85:LEU:O	26:D1:86:SER:HB3	2.18	0.42
27:D2:35:LEU:HD11	27:D2:53:LEU:HD12	2.00	0.42
28:D3:6:VAL:HG12	28:D3:56:VAL:CG1	2.45	0.42
28:D3:40:THR:CG2	28:D3:43:ILE:HD13	2.49	0.42
29:D4:6:HIS:HB2	29:D4:7:PRO:CD	2.41	0.42
30:D5:16:ARG:HD2	30:D5:20:ARG:NH2	2.34	0.42
30:D5:40:LYS:HB2	30:D5:41:PRO:HD2	2.00	0.42
31:D6:15:GLU:OE2	31:D6:43:CYS:CB	2.64	0.42
35:DA:225:A:H2'	35:DA:226:G:H5'	2.01	0.42
35:DA:251:A:H5''	47:DP:51:PHE:HE2	1.84	0.42
35:DA:520:G:O2'	35:DA:521:G:H5'	2.19	0.42
35:DA:621:A:C2'	35:DA:622:G:H5'	2.49	0.42
35:DA:643:A:C2	35:DA:644:A:C4	3.07	0.42
35:DA:1276:A:O2'	49:DR:16:HIS:HE1	2.03	0.42
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.19	0.42
35:DA:1514:U:H2'	35:DA:1515:G:C8	2.55	0.42
35:DA:1520:G:H2'	35:DA:1523:U:O4'	2.19	0.42
35:DA:1858:G:H2'	35:DA:1883:G:H22	1.85	0.42
35:DA:2014:A:H2'	35:DA:2015:A:C8	2.53	0.42
35:DA:2123:G:O2'	35:DA:2124:G:H5'	2.20	0.42
35:DA:2136:C:H2'	35:DA:2137:C:H5'	2.01	0.42
35:DA:2822:G:OP2	49:DR:5:LYS:NZ	2.51	0.42
38:DD:129:ASN:O	38:DD:193:VAL:HG12	2.19	0.42
40:DF:108:LYS:HE3	40:DF:112:MET:HE2	2.01	0.42
40:DF:122:LYS:HD2	40:DF:191:ARG:HG2	2.02	0.42
41:DG:41:GLN:HB2	41:DG:43:LEU:CD1	2.49	0.42
42:DH:30:LYS:HE3	42:DH:81:GLU:HG3	1.98	0.42
42:DH:163:TYR:N	42:DH:163:TYR:HD1	2.17	0.42
46:DO:86:ILE:CG2	46:DO:94:ARG:HD3	2.49	0.42
47:DP:99:LEU:HD23	47:DP:99:LEU:C	2.44	0.42
48:DQ:26:TYR:CD1	48:DQ:26:TYR:C	2.97	0.42
48:DQ:57:HIS:NE2	48:DQ:116:GLU:HB3	2.34	0.42
49:DR:82:GLU:O	49:DR:86:ARG:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:52:VAL:HG13	53:DV:55:ALA:HB3	1.96	0.42
54:DW:22:ASP:HA	54:DW:25:ARG:NH1	2.34	0.42
1:AA:543:C:C2	1:AA:544:G:C8	3.07	0.42
1:AA:853:G:H2'	1:AA:854:G:H8	1.83	0.42
1:AA:939:G:C6	1:AA:940:C:N4	2.87	0.42
4:AD:18:LYS:HZ3	4:AD:31:CYS:HB3	1.84	0.42
4:AD:90:GLY:HA2	4:AD:204:ILE:HD11	2.01	0.42
4:AD:147:ALA:HB2	4:AD:182:LYS:HG2	2.01	0.42
5:AE:142:LEU:C	5:AE:143:ARG:HE	2.27	0.42
8:AH:77:GLU:CG	8:AH:78:GLN:H	2.31	0.42
9:AI:28:VAL:HG11	9:AI:65:VAL:HG12	2.01	0.42
9:AI:114:TYR:O	9:AI:115:GLY:C	2.62	0.42
11:AK:115:PRO:C	11:AK:117:ASN:H	2.26	0.42
15:AO:12:ILE:O	15:AO:14:GLU:N	2.47	0.42
16:AP:4:ILE:N	16:AP:65:GLN:O	2.46	0.42
16:AP:75:ARG:HG3	16:AP:75:ARG:NH1	2.32	0.42
18:AR:83:GLU:O	18:AR:84:LYS:O	2.37	0.42
19:AS:43:GLU:O	19:AS:44:MET:HE3	2.19	0.42
20:AT:13:LEU:CD1	20:AT:17:ARG:HH12	2.26	0.42
20:AT:33:ILE:O	20:AT:34:LYS:C	2.62	0.42
22:AW:19:G:H1	35:BA:2112:G:C1'	2.33	0.42
27:B2:43:GLN:HB3	27:B2:44:LEU:H	1.39	0.42
29:B4:35:VAL:HG12	29:B4:36:CYS:H	1.83	0.42
32:B7:3:ARG:HD3	32:B7:3:ARG:HA	1.81	0.42
33:B8:30:ARG:HD3	33:B8:30:ARG:HA	1.54	0.42
35:BA:412:A:H2'	35:BA:413:C:H5'	2.00	0.42
35:BA:620:G:H8	35:BA:622:G:O6	2.03	0.42
35:BA:814:C:H5	47:BP:27:HIS:CG	2.37	0.42
35:BA:956:G:C4'	48:BQ:83:MET:HE1	2.49	0.42
35:BA:1107:G:O2'	35:BA:1108:U:H5'	2.19	0.42
35:BA:1446:C:O2'	35:BA:1447:G:H5'	2.19	0.42
35:BA:1512:U:H2'	35:BA:1513:C:C6	2.54	0.42
35:BA:1596:A:O2'	35:BA:1597:A:H5'	2.18	0.42
35:BA:1835:G:H2'	35:BA:1836:C:C6	2.55	0.42
35:BA:2272:U:H5''	35:BA:2273:A:OP1	2.19	0.42
35:BA:2438:U:O3'	35:BA:2439:A:H3'	2.19	0.42
36:BB:8:U:HO2'	50:BS:40:ILE:HD13	1.83	0.42
39:BE:56:PRO:O	39:BE:57:LYS:C	2.63	0.42
40:BF:130:ALA:C	40:BF:132:VAL:N	2.75	0.42
41:BG:68:PRO:HA	41:BG:92:VAL:HB	2.01	0.42
42:BH:119:GLU:HG2	42:BH:120:GLY:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:24:VAL:O	46:BO:24:VAL:HG13	2.19	0.42
46:BO:87:ILE:CG2	46:BO:88:ASN:N	2.83	0.42
47:BP:62:LEU:HA	47:BP:63:PRO:HD3	1.73	0.42
50:BS:28:VAL:HG12	50:BS:89:ARG:CD	2.49	0.42
51:BT:50:ILE:CG2	51:BT:62:THR:HB	2.48	0.42
53:BV:45:THR:O	53:BV:46:VAL:CG1	2.67	0.42
56:BY:81:LYS:HE2	56:BY:97:ARG:NH2	2.31	0.42
57:BZ:9:TYR:CZ	57:BZ:61:LEU:HD13	2.54	0.42
57:BZ:13:GLU:CD	57:BZ:13:GLU:N	2.77	0.42
1:CA:324:G:N2	1:CA:327:A:C8	2.87	0.42
1:CA:414:A:C2	1:CA:415:A:H1'	2.54	0.42
1:CA:509:A:H5'	4:CD:54:TYR:HD2	1.83	0.42
1:CA:746:A:O2'	1:CA:747:C:H5'	2.20	0.42
1:CA:865:A:O2'	1:CA:919:A:H4'	2.19	0.42
1:CA:1130:A:N6	1:CA:1143:G:N2	2.67	0.42
1:CA:1280:A:C8	10:CJ:41:PRO:HD3	2.54	0.42
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.55	0.42
1:CA:1421:G:C4	1:CA:1480:G:N2	2.87	0.42
1:CA:1437:C:H6	1:CA:1438:G:N7	2.17	0.42
1:CA:1505:G:O3'	58:CX:15:A:OP1	2.38	0.42
2:CB:166:ASP:OD2	2:CB:167:PRO:HD2	2.17	0.42
2:CB:209:ARG:C	2:CB:211:ILE:N	2.75	0.42
5:CE:75:THR:HG21	5:CE:94:ALA:O	2.18	0.42
5:CE:103:GLY:O	5:CE:105:VAL:N	2.52	0.42
6:CF:69:GLU:HG2	6:CF:70:ASP:N	2.23	0.42
7:CG:107:ALA:HB2	7:CG:134:ALA:HB2	2.00	0.42
10:CJ:97:GLU:C	10:CJ:98:ILE:HG13	2.44	0.42
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.34	0.42
16:CP:75:ARG:HG3	16:CP:75:ARG:NH1	2.32	0.42
18:CR:64:ARG:C	18:CR:66:LEU:N	2.76	0.42
18:CR:74:ARG:HA	18:CR:79:LEU:O	2.19	0.42
19:CS:60:VAL:O	19:CS:60:VAL:HG13	2.18	0.42
20:CT:33:ILE:O	20:CT:34:LYS:C	2.62	0.42
22:CV:55:U:C4	22:CV:57:A:C5'	2.99	0.42
25:D0:67:VAL:HG12	25:D0:68:GLU:N	2.33	0.42
28:D3:28:LEU:N	28:D3:28:LEU:CD2	2.83	0.42
35:DA:235:U:H2'	35:DA:236:C:C6	2.54	0.42
35:DA:412:A:H2'	35:DA:413:C:H5'	2.01	0.42
35:DA:639:U:C2	35:DA:640:C:C5	3.07	0.42
35:DA:950:G:O2'	35:DA:951:C:H5'	2.18	0.42
35:DA:1020:A:N1	35:DA:1141:U:H1'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1169:G:H1	35:DA:1180:C:N4	2.16	0.42
35:DA:1593:G:O2'	35:DA:1594:G:H5'	2.19	0.42
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.55	0.42
35:DA:1917:U:H2'	35:DA:1918:A:H5'	2.01	0.42
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.55	0.42
35:DA:2360:A:HO2'	35:DA:2361:A:H8	1.68	0.42
35:DA:2579:C:C1'	39:DE:134:ILE:HD13	2.49	0.42
35:DA:2747:G:O6	35:DA:2755:C:H5''	2.19	0.42
35:DA:2807:G:C2'	35:DA:2808:U:H5''	2.48	0.42
39:DE:34:VAL:HG13	39:DE:48:GLN:HE21	1.85	0.42
40:DF:3:GLU:N	40:DF:24:LEU:HG	2.35	0.42
40:DF:3:GLU:HA	40:DF:24:LEU:CB	2.50	0.42
41:DG:112:PRO:C	41:DG:114:ILE:N	2.77	0.42
42:DH:83:TYR:CD1	42:DH:134:SER:HA	2.54	0.42
43:DI:8:PRO:HB3	43:DI:15:VAL:H	1.84	0.42
43:DI:69:LYS:NZ	43:DI:73:GLU:OE1	2.52	0.42
43:DI:120:ILE:HG22	43:DI:122:GLU:H	1.84	0.42
44:DJ:49:UNK:C	44:DJ:51:UNK:N	2.83	0.42
45:DN:87:LEU:O	45:DN:88:GLU:C	2.61	0.42
49:DR:11:ASN:C	49:DR:12:ARG:HG2	2.43	0.42
50:DS:92:TYR:O	50:DS:94:TYR:N	2.52	0.42
50:DS:96:GLY:O	50:DS:98:VAL:N	2.52	0.42
51:DT:36:GLU:O	51:DT:38:ASN:ND2	2.53	0.42
55:DX:55:ASN:HB2	55:DX:80:ILE:HG23	2.01	0.42
1:AA:189(C):C:H2'	1:AA:189(D):C:C6	2.54	0.42
1:AA:300:A:H2'	1:AA:301:G:O4'	2.19	0.42
1:AA:632:A:H3'	1:AA:633:G:H5'	2.02	0.42
1:AA:971:G:C8	1:AA:1365:G:H4'	2.55	0.42
1:AA:1130:A:H61	1:AA:1143:G:N2	2.17	0.42
1:AA:1165:C:H42	1:AA:1171:G:H22	1.66	0.42
1:AA:1305:G:H22	1:AA:1331:G:C1'	2.29	0.42
3:AC:28:GLN:O	3:AC:29:TYR:C	2.61	0.42
3:AC:172:ARG:C	3:AC:173:VAL:HG23	2.44	0.42
6:AF:46:ARG:NH2	18:AR:37:VAL:HG23	2.35	0.42
7:AG:60:LYS:HD2	7:AG:63:LYS:HB3	2.00	0.42
10:AJ:78:ASN:HB2	10:AJ:81:THR:HB	2.01	0.42
11:AK:77:MET:C	11:AK:78:GLN:CD	2.87	0.42
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.20	0.42
15:AO:62:GLN:O	15:AO:63:ARG:C	2.62	0.42
18:AR:34:TYR:O	18:AR:34:TYR:HD1	2.02	0.42
19:AS:60:VAL:O	19:AS:60:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:25:C:H2'	22:AW:26:G:H8	1.84	0.42
24:AY:34:GLN:O	24:AY:35:ASN:C	2.62	0.42
24:AY:38:GLY:HA2	24:AY:39:LYS:CD	2.42	0.42
24:AY:83:LEU:O	24:AY:84:LYS:HD2	2.14	0.42
29:B4:13:ARG:C	29:B4:14:ILE:HD12	2.44	0.42
30:B5:26:THR:HG22	30:B5:27:PRO:O	2.19	0.42
35:BA:140:G:N3	35:BA:142:A:N1	2.67	0.42
35:BA:271(A):A:N7	35:BA:271(W):G:N2	2.67	0.42
35:BA:414:C:H2'	35:BA:415:A:C8	2.54	0.42
35:BA:596:G:H2'	35:BA:597:U:O4'	2.18	0.42
35:BA:1469:A:H2'	35:BA:1470:G:H8	1.84	0.42
35:BA:1485:G:H2'	35:BA:1486:A:H8	1.83	0.42
35:BA:1688:U:O2	35:BA:1700:A:C8	2.72	0.42
35:BA:1721:G:H8	35:BA:1741:A:N6	2.16	0.42
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.20	0.42
35:BA:2772:C:H2'	35:BA:2773:C:C6	2.55	0.42
37:BC:36:LYS:O	37:BC:37:PHE:HB2	2.19	0.42
38:BD:118:VAL:N	38:BD:129:ASN:OD1	2.49	0.42
40:BF:36:VAL:HG11	40:BF:183:VAL:HG11	2.00	0.42
41:BG:38:VAL:HG13	41:BG:38:VAL:O	2.20	0.42
41:BG:99:MET:HG3	41:BG:100:TRP:N	2.34	0.42
42:BH:83:TYR:CD1	42:BH:134:SER:HA	2.54	0.42
45:BN:46:VAL:O	45:BN:47:ALA:HB3	2.19	0.42
45:BN:66:LYS:O	45:BN:70:LYS:HB3	2.18	0.42
45:BN:119:ARG:CG	45:BN:119:ARG:NH1	2.81	0.42
46:BO:12:ASP:C	46:BO:99:PHE:HE2	2.27	0.42
49:BR:100:LEU:N	49:BR:100:LEU:CD1	2.83	0.42
52:BU:92:ARG:C	52:BU:94:ASN:N	2.76	0.42
56:BY:29:GLU:OE2	56:BY:38:ILE:HG21	2.19	0.42
56:BY:81:LYS:CE	56:BY:97:ARG:HE	2.29	0.42
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.38	0.42
1:CA:738:C:H2'	1:CA:739:C:H6	1.84	0.42
1:CA:757:U:OP1	1:CA:822:C:O2'	2.37	0.42
1:CA:1142:G:C2'	1:CA:1143:G:H5'	2.50	0.42
1:CA:1374:A:H1'	7:CG:31:MET:CE	2.49	0.42
1:CA:1445:C:H2'	1:CA:1446:U:O4'	2.18	0.42
2:CB:153:ARG:C	2:CB:155:LEU:N	2.77	0.42
2:CB:196:LEU:HD12	2:CB:196:LEU:C	2.44	0.42
5:CE:11:ILE:CG2	5:CE:105:VAL:HG22	2.44	0.42
5:CE:36:ASP:OD1	5:CE:38:GLN:HB2	2.20	0.42
5:CE:153:LYS:O	5:CE:155:GLU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:8:ILE:HG22	6:CF:9:VAL:N	2.33	0.42
7:CG:132:GLY:H	7:CG:135:VAL:CB	2.33	0.42
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.19	0.42
12:CL:87:VAL:O	12:CL:87:VAL:HG12	2.19	0.42
13:CM:79:LYS:CG	13:CM:82:MET:HE3	2.50	0.42
14:CN:21:TYR:CE2	14:CN:23:ARG:NH2	2.87	0.42
19:CS:40:ILE:HD12	19:CS:62:ILE:CD1	2.48	0.42
19:CS:43:GLU:HB3	19:CS:44:MET:HE1	2.00	0.42
20:CT:91:LEU:C	20:CT:93:GLU:N	2.76	0.42
21:CU:20:LYS:O	21:CU:22:ARG:N	2.50	0.42
22:CV:12:G:C6	22:CV:13:C:C5	3.07	0.42
22:CW:26:G:H3'	22:CW:27:U:C6	2.53	0.42
26:D1:8:SER:HB3	26:D1:66:HIS:CD2	2.54	0.42
35:DA:82:G:N1	35:DA:103:A:OP2	2.51	0.42
35:DA:195:A:C8	35:DA:197:A:OP1	2.73	0.42
35:DA:229:A:H3'	35:DA:230:U:H5'	2.00	0.42
35:DA:243:U:C2'	35:DA:244:A:H5'	2.49	0.42
35:DA:574:C:N3	39:DE:145:LYS:HE3	2.35	0.42
35:DA:605:C:H1'	35:DA:657:U:O2'	2.19	0.42
35:DA:659:C:O4'	40:DF:102:PRO:HD3	2.19	0.42
35:DA:857:C:O2'	35:DA:858:U:H5'	2.19	0.42
35:DA:1448:G:N3	35:DA:1528(A):A:H2	2.16	0.42
35:DA:1915:U:H5	35:DA:1916:A:N7	2.04	0.42
35:DA:2376:A:N6	50:DS:92:TYR:HE2	2.17	0.42
35:DA:2533:A:H2'	35:DA:2534:A:C5'	2.48	0.42
35:DA:2679:A:C2	35:DA:2680:C:C2	3.08	0.42
35:DA:2740:A:H2'	35:DA:2741:A:C8	2.54	0.42
36:DB:2:C:H2'	36:DB:3:C:H6	1.84	0.42
38:DD:147:LEU:HD12	38:DD:155:LEU:CD2	2.49	0.42
38:DD:248:SER:C	38:DD:250:TRP:N	2.77	0.42
39:DE:5:LEU:HD12	39:DE:51:PHE:HB2	2.00	0.42
39:DE:103:ASP:OD2	39:DE:202:LYS:HD2	2.19	0.42
40:DF:129:PHE:C	40:DF:131:GLY:H	2.28	0.42
42:DH:117:PRO:HB3	42:DH:123:PHE:HE1	1.84	0.42
45:DN:19:GLU:CD	45:DN:19:GLU:C	2.87	0.42
46:DO:47:ILE:CG1	46:DO:48:PRO:HD2	2.43	0.42
46:DO:86:ILE:HG22	46:DO:87:ILE:N	2.34	0.42
47:DP:123:LEU:HD12	47:DP:123:LEU:O	2.19	0.42
48:DQ:35:VAL:HG22	48:DQ:36:ALA:N	2.34	0.42
52:DU:52:ARG:C	52:DU:54:LYS:N	2.75	0.42
52:DU:72:HIS:HE1	52:DU:107:ALA:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:21:ARG:CZ	53:DV:21:ARG:HB2	2.49	0.42
53:DV:49:THR:CB	53:DV:50:PRO:CD	2.89	0.42
56:DY:81:LYS:HD3	56:DY:96:ILE:CG2	2.48	0.42
56:DY:95:LYS:CE	56:DY:99:CYS:O	2.67	0.42
57:DZ:5:LEU:CD1	57:DZ:44:PHE:HA	2.49	0.42
57:DZ:37:VAL:O	57:DZ:38:TYR:CB	2.67	0.42
57:DZ:100:VAL:O	57:DZ:100:VAL:HG23	2.19	0.42
57:DZ:166:SER:OG	57:DZ:168:GLU:N	2.52	0.42
1:AA:18:C:O2'	1:AA:19:C:H5'	2.20	0.42
1:AA:158:G:O2'	1:AA:159:G:H5'	2.19	0.42
1:AA:178:C:H2'	1:AA:179:A:C4'	2.49	0.42
1:AA:392:G:H2'	1:AA:393:A:C8	2.45	0.42
1:AA:628:G:H2'	1:AA:629:G:O4'	2.18	0.42
1:AA:807:A:H2'	1:AA:808:C:H6	1.81	0.42
1:AA:951:G:O4'	1:AA:971:G:H5'	2.20	0.42
1:AA:1269:A:H5'	21:AU:18:TYR:O	2.19	0.42
1:AA:1354:C:H2'	1:AA:1355:G:C8	2.55	0.42
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.54	0.42
2:AB:105:PHE:HZ	2:AB:156:LYS:HA	1.84	0.42
2:AB:153:ARG:C	2:AB:155:LEU:N	2.76	0.42
2:AB:167:PRO:O	2:AB:171:ALA:N	2.53	0.42
2:AB:172:ILE:O	2:AB:176:GLU:HG2	2.18	0.42
2:AB:219:VAL:HA	2:AB:222:ILE:HG13	2.01	0.42
3:AC:130:VAL:O	3:AC:130:VAL:HG12	2.18	0.42
3:AC:147:LYS:HB2	3:AC:203:PHE:C	2.44	0.42
4:AD:17:VAL:HG12	4:AD:18:LYS:N	2.34	0.42
4:AD:192:GLU:O	4:AD:194:LEU:N	2.52	0.42
7:AG:80:VAL:CG1	7:AG:81:GLY:H	2.18	0.42
9:AI:4:TYR:HB3	9:AI:84:ALA:O	2.19	0.42
10:AJ:97:GLU:C	10:AJ:98:ILE:HG13	2.44	0.42
13:AM:97:PRO:HB2	13:AM:101:GLN:NE2	2.33	0.42
15:AO:53:HIS:O	15:AO:57:LEU:HG	2.19	0.42
16:AP:20:VAL:CG2	16:AP:21:VAL:N	2.79	0.42
16:AP:49:LEU:O	16:AP:49:LEU:CG	2.68	0.42
17:AQ:35:VAL:HG12	17:AQ:36:ILE:H	1.83	0.42
20:AT:56:MET:SD	20:AT:85:MET:HB3	2.60	0.42
23:AX:12:A:C2'	23:AX:13:A:OP2	2.67	0.42
23:AX:22:A:C4	23:AX:22:A:C3'	3.02	0.42
25:B0:67:VAL:HG12	25:B0:68:GLU:N	2.33	0.42
26:B1:23:LYS:HD3	26:B1:28:GLY:H	1.84	0.42
32:B7:43:THR:O	32:B7:44:PRO:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:22:ARG:NH2	35:BA:2741:A:OP1	2.52	0.42
35:BA:271(A):A:H1'	35:BA:365:C:O4'	2.20	0.42
35:BA:348:G:O2'	35:BA:349:G:H5'	2.20	0.42
35:BA:440:G:H2'	35:BA:441:U:C6	2.55	0.42
35:BA:857:C:O2'	35:BA:858:U:H5'	2.20	0.42
35:BA:1530:C:O2'	35:BA:1531:C:OP2	2.30	0.42
35:BA:1643:G:H2'	35:BA:1644:C:O5'	2.19	0.42
35:BA:1953:A:H2	35:BA:2549:G:N3	2.18	0.42
39:BE:34:VAL:CG1	39:BE:48:GLN:HG2	2.49	0.42
39:BE:76:ARG:O	39:BE:77:ILE:O	2.37	0.42
40:BF:21:ALA:C	40:BF:23:ASP:N	2.77	0.42
40:BF:32:LEU:O	40:BF:32:LEU:HD23	2.19	0.42
41:BG:12:TYR:O	41:BG:16:ARG:HB3	2.19	0.42
41:BG:53:LEU:N	41:BG:53:LEU:CD2	2.83	0.42
42:BH:117:PRO:HB3	42:BH:123:PHE:HE1	1.84	0.42
44:BJ:99:UNK:C	44:BJ:133:UNK:HA	2.50	0.42
46:BO:120:GLU:HB2	51:BT:68:TYR:HE2	1.84	0.42
48:BQ:73:PRO:HG3	48:BQ:93:TYR:CE2	2.53	0.42
49:BR:12:ARG:HD3	49:BR:16:HIS:ND1	2.34	0.42
49:BR:28:LEU:C	49:BR:30:THR:H	2.28	0.42
50:BS:36:TYR:N	50:BS:36:TYR:HD1	2.16	0.42
50:BS:88:ASP:OD2	50:BS:89:ARG:N	2.52	0.42
51:BT:27:THR:O	51:BT:47:GLY:O	2.38	0.42
56:BY:7:VAL:CB	56:BY:8:LYS:HZ1	2.32	0.42
56:BY:57:GLN:CD	56:BY:57:GLN:N	2.78	0.42
1:CA:4:U:OP1	4:CD:86:LYS:CG	2.67	0.42
1:CA:33:A:HO2'	1:CA:34:C:P	2.31	0.42
1:CA:581:G:OP1	15:CO:61:GLY:HA3	2.20	0.42
1:CA:650:G:O2'	1:CA:651:C:H5'	2.18	0.42
1:CA:724:G:C2	1:CA:725:G:C8	3.08	0.42
1:CA:1353:G:H2'	1:CA:1354:C:C6	2.54	0.42
2:CB:112:VAL:HG11	2:CB:156:LYS:HE2	2.01	0.42
2:CB:193:ASP:OD1	2:CB:193:ASP:C	2.61	0.42
3:CC:32:LEU:O	3:CC:35:GLU:HB3	2.20	0.42
5:CE:31:LEU:CD1	5:CE:43:LEU:HD11	2.49	0.42
5:CE:57:LYS:O	5:CE:61:TYR:CD2	2.73	0.42
5:CE:74:GLY:HA3	5:CE:116:THR:OG1	2.19	0.42
5:CE:100:VAL:HG12	5:CE:118:ILE:HG22	2.02	0.42
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.54	0.42
8:CH:23:SER:HA	8:CH:61:VAL:O	2.20	0.42
9:CI:97:LYS:C	9:CI:99:LEU:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:118:LYS:NZ	9:CI:118:LYS:CB	2.82	0.42
9:CI:128:ARG:OXT	9:CI:128:ARG:HG2	2.19	0.42
10:CJ:70:ARG:HH11	10:CJ:70:ARG:HG2	1.83	0.42
16:CP:20:VAL:CG2	16:CP:21:VAL:N	2.81	0.42
17:CQ:5:VAL:HA	17:CQ:59:ILE:O	2.19	0.42
19:CS:9:VAL:C	19:CS:11:VAL:N	2.77	0.42
20:CT:13:LEU:CD1	20:CT:17:ARG:HH12	2.26	0.42
22:CV:19:G:H4'	22:CV:20:U:OP2	2.20	0.42
22:CW:66:C:O2'	22:CW:67:C:H5'	2.20	0.42
33:D8:7:HIS:HB2	33:D8:59:LYS:HB3	2.02	0.42
33:D8:33:ASN:HB2	35:DA:2420:C:OP2	2.19	0.42
35:DA:181:A:H2'	35:DA:182:A:C8	2.55	0.42
35:DA:218:A:H2	35:DA:235:U:H4'	1.84	0.42
35:DA:271:A:N6	35:DA:271(X):G:H1'	2.34	0.42
35:DA:724:U:H2'	35:DA:725:G:O4'	2.20	0.42
35:DA:829:A:N7	35:DA:2248:C:H5'	2.35	0.42
35:DA:852:G:C2'	35:DA:853:G:H5'	2.50	0.42
35:DA:866:A:N3	35:DA:866:A:C2'	2.81	0.42
35:DA:867:C:N4	35:DA:912:C:C2'	2.78	0.42
35:DA:1053:C:O2	35:DA:1106:A:C2	2.73	0.42
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.19	0.42
35:DA:1592:C:C2'	35:DA:1593:G:C5'	2.83	0.42
35:DA:1832:C:C4	35:DA:1833:U:C5	3.07	0.42
35:DA:1907:G:H2'	35:DA:1908:C:C6	2.55	0.42
35:DA:2182:G:O2'	35:DA:2183:C:H5'	2.19	0.42
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.19	0.42
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.84	0.42
38:DD:17:THR:HG1	38:DD:205:VAL:H	1.63	0.42
38:DD:239:ARG:HG2	38:DD:239:ARG:NH2	2.15	0.42
40:DF:3:GLU:O	40:DF:19:GLU:HB3	2.19	0.42
40:DF:68:LYS:HB3	40:DF:69:HIS:H	1.26	0.42
40:DF:99:TYR:CD1	40:DF:99:TYR:N	2.86	0.42
40:DF:114:VAL:HG11	40:DF:202:PHE:CE2	2.54	0.42
40:DF:163:VAL:O	40:DF:166:ALA:HB3	2.18	0.42
41:DG:115:ARG:NH2	41:DG:136:ARG:HB2	2.34	0.42
41:DG:154:GLY:O	41:DG:155:MET:HB3	2.20	0.42
46:DO:103:ALA:HB1	46:DO:105:GLU:OE1	2.19	0.42
46:DO:105:GLU:O	46:DO:109:LYS:HB2	2.19	0.42
47:DP:25:SER:O	47:DP:30:THR:OG1	2.30	0.42
47:DP:116:GLY:O	47:DP:117:GLU:CB	2.68	0.42
48:DQ:31:ASP:O	48:DQ:133:ARG:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:56:LYS:NZ	49:DR:88:ARG:N	2.67	0.42
52:DU:65:ILE:O	52:DU:67:ALA:N	2.52	0.42
52:DU:65:ILE:C	52:DU:67:ALA:N	2.76	0.42
52:DU:90:VAL:CG2	53:DV:39:LEU:HG	2.49	0.42
53:DV:1:MET:CB	53:DV:99:ILE:HG13	2.48	0.42
53:DV:2:PHE:HB2	53:DV:42:GLY:CA	2.49	0.42
55:DX:52:VAL:HG12	55:DX:82:GLN:O	2.19	0.42
1:AA:142:G:H2'	1:AA:143:A:C8	2.54	0.42
1:AA:511:C:HO2'	1:AA:512:U:H6	1.64	0.42
1:AA:710:G:H2'	1:AA:711:G:H8	1.84	0.42
1:AA:760:G:H21	17:AQ:94:ASN:HB3	1.85	0.42
1:AA:839:U:O2	1:AA:839:U:C2'	2.68	0.42
1:AA:995:C:N3	1:AA:1046:A:O2'	2.50	0.42
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.72	0.42
1:AA:1278:U:H5''	1:AA:1279:A:C1'	2.49	0.42
1:AA:1320:C:H1'	19:AS:73:GLU:HB2	2.00	0.42
2:AB:174:VAL:HG13	2:AB:184:VAL:HG21	2.01	0.42
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	2.02	0.42
4:AD:11:LEU:O	4:AD:12:CYS:C	2.61	0.42
8:AH:36:LEU:O	8:AH:45:ILE:HD11	2.20	0.42
9:AI:11:LYS:C	9:AI:13:ALA:N	2.77	0.42
10:AJ:29:ARG:HB3	10:AJ:29:ARG:CZ	2.49	0.42
13:AM:9:ILE:HG22	13:AM:11:ARG:HG3	2.02	0.42
13:AM:15:VAL:HG22	13:AM:43:THR:O	2.20	0.42
13:AM:29:ARG:HD3	13:AM:64:TRP:CE3	2.54	0.42
15:AO:68:ARG:O	15:AO:72:ARG:HG3	2.19	0.42
16:AP:4:ILE:HA	16:AP:20:VAL:O	2.20	0.42
18:AR:53:ARG:C	18:AR:55:ARG:H	2.27	0.42
19:AS:6:LYS:CD	19:AS:7:LYS:HE3	2.49	0.42
22:AV:44:A:H2'	22:AV:45:G:C8	2.54	0.42
31:B6:12:GLU:OE1	31:B6:52:VAL:O	2.36	0.42
33:B8:29:LYS:O	33:B8:30:ARG:HB2	2.19	0.42
35:BA:587:C:H2'	47:BP:33:ARG:CZ	2.50	0.42
35:BA:1232:G:H2'	35:BA:1233:C:C6	2.53	0.42
35:BA:1827:C:C2'	35:BA:1828:G:H5'	2.50	0.42
35:BA:1914:C:O2	35:BA:1914:C:O4'	2.37	0.42
35:BA:1971:A:N3	38:BD:240:ALA:HA	2.35	0.42
35:BA:2291:U:H2'	35:BA:2292:C:H6	1.83	0.42
35:BA:2678:C:O2'	35:BA:2679:A:H5'	2.20	0.42
35:BA:2832:U:H4'	35:BA:2833:G:H5''	2.01	0.42
36:BB:13:A:C2	36:BB:70:C:O4'	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:201:HIS:O	38:BD:202:LYS:C	2.63	0.42
39:BE:93:VAL:HG11	39:BE:180:ASN:C	2.44	0.42
40:BF:9:ILE:C	40:BF:11:VAL:H	2.27	0.42
40:BF:68:LYS:HD3	40:BF:68:LYS:HA	1.72	0.42
41:BG:107:LEU:HD22	41:BG:177:GLY:O	2.18	0.42
42:BH:83:TYR:O	42:BH:84:SER:CB	2.65	0.42
43:BI:51:ILE:HG22	43:BI:52:ARG:N	2.35	0.42
45:BN:91:LEU:O	45:BN:92:ALA:C	2.62	0.42
47:BP:83:VAL:O	47:BP:115:LEU:HD23	2.19	0.42
49:BR:9:LYS:HG2	49:BR:43:GLU:CD	2.45	0.42
49:BR:78:LYS:O	49:BR:83:ILE:HG12	2.20	0.42
53:BV:5:VAL:CG2	53:BV:6:LYS:N	2.83	0.42
53:BV:22:VAL:HG21	53:BV:94:LEU:HG	2.01	0.42
54:BW:22:ASP:HA	54:BW:25:ARG:HH12	1.85	0.42
57:BZ:81:ARG:O	57:BZ:82:ARG:CB	2.67	0.42
57:BZ:157:LEU:HD23	57:BZ:157:LEU:N	2.25	0.42
1:CA:20:U:C2	1:CA:916:G:C2	3.08	0.42
1:CA:523:A:H61	12:CL:50:ARG:HH12	1.67	0.42
1:CA:1060:C:C6	1:CA:1060:C:C3'	3.03	0.42
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.18	0.42
1:CA:1248:A:H2'	1:CA:1249:C:H5'	2.02	0.42
2:CB:175:ARG:O	2:CB:178:ARG:N	2.52	0.42
2:CB:189:ASP:CG	2:CB:190:THR:N	2.77	0.42
3:CC:114:PRO:HA	3:CC:185:GLY:HA3	2.02	0.42
4:CD:3:ARG:NH1	4:CD:69:GLY:O	2.52	0.42
4:CD:13:ARG:O	4:CD:14:ARG:C	2.62	0.42
4:CD:68:TYR:O	4:CD:69:GLY:O	2.37	0.42
5:CE:64:ARG:HG3	5:CE:64:ARG:NH1	2.33	0.42
5:CE:91:LEU:HD13	5:CE:91:LEU:HA	1.89	0.42
6:CF:62:TRP:C	6:CF:63:TYR:HD2	2.28	0.42
7:CG:18:TYR:CD2	7:CG:59:LEU:HD13	2.54	0.42
8:CH:36:LEU:CD2	8:CH:61:VAL:HG22	2.50	0.42
8:CH:115:SER:C	8:CH:116:LYS:HZ1	2.25	0.42
8:CH:120:THR:O	8:CH:121:ASP:C	2.63	0.42
9:CI:11:LYS:C	9:CI:13:ALA:N	2.77	0.42
10:CJ:35:SER:O	10:CJ:36:GLY:C	2.63	0.42
12:CL:80:VAL:CG2	12:CL:81:LEU:N	2.82	0.42
13:CM:12:ASN:O	13:CM:44:ARG:HD2	2.20	0.42
14:CN:27:CYS:SG	14:CN:40:CYS:SG	3.11	0.42
15:CO:67:LEU:HD21	15:CO:87:ILE:HD12	2.00	0.42
16:CP:1:MET:HG2	16:CP:2:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:65:ILE:H	17:CQ:65:ILE:CD1	2.32	0.42
18:CR:37:VAL:CG1	18:CR:41:LYS:HD2	2.50	0.42
19:CS:9:VAL:O	19:CS:9:VAL:HG12	2.19	0.42
26:D1:6:GLU:HG3	26:D1:61:ARG:O	2.19	0.42
29:D4:6:HIS:CB	41:DG:67:LYS:HD2	2.42	0.42
35:DA:197:A:N6	35:DA:2430:A:H2'	2.35	0.42
35:DA:622:G:HO2'	35:DA:623:G:H5'	1.84	0.42
35:DA:889:C:O2	35:DA:889:C:O4'	2.38	0.42
35:DA:1040:C:N4	35:DA:1115:G:H1	2.14	0.42
35:DA:1181:C:H2'	35:DA:1182:A:C8	2.54	0.42
35:DA:1270:C:H5''	35:DA:1271:G:H5'	2.01	0.42
35:DA:1471:A:C2	35:DA:1472:A:C4	3.08	0.42
35:DA:1697:G:C6	35:DA:1698:A:N1	2.87	0.42
35:DA:1914:C:O2	35:DA:1914:C:O4'	2.38	0.42
35:DA:2841:C:O2'	35:DA:2842:G:H5'	2.20	0.42
36:DB:78:A:C2	36:DB:100:A:C4	3.07	0.42
37:DC:82:LYS:NZ	37:DC:82:LYS:HB3	2.26	0.42
37:DC:85:GLU:HG2	37:DC:85:GLU:O	2.19	0.42
40:DF:5:ALA:C	40:DF:6:VAL:HG23	2.45	0.42
41:DG:137:GLU:HB3	41:DG:138:GLN:H	1.62	0.42
42:DH:19:VAL:HG12	42:DH:20:ALA:N	2.34	0.42
42:DH:54:ARG:NH1	42:DH:54:ARG:CG	2.83	0.42
42:DH:157:TYR:CD1	42:DH:170:ARG:O	2.72	0.42
43:DI:62:LYS:HA	43:DI:133:HIS:NE2	2.35	0.42
43:DI:88:ILE:HG12	43:DI:92:VAL:HG21	1.98	0.42
44:DJ:25:UNK:N	44:DJ:86:UNK:CB	2.79	0.42
44:DJ:124:UNK:O	44:DJ:125:UNK:O	2.37	0.42
45:DN:39:ARG:O	45:DN:41:ASP:N	2.53	0.42
45:DN:108:PRO:O	45:DN:113:GLY:HA3	2.19	0.42
47:DP:112:LEU:HD23	47:DP:114:ILE:N	2.35	0.42
48:DQ:108:GLY:HA2	57:DZ:116:VAL:HG11	2.01	0.42
48:DQ:109:VAL:HG23	48:DQ:113:GLN:OE1	2.20	0.42
49:DR:113:LEU:HD23	49:DR:113:LEU:H	1.85	0.42
50:DS:31:SER:O	50:DS:32:LEU:C	2.63	0.42
51:DT:29:ARG:HG2	51:DT:85:LYS:CA	2.50	0.42
51:DT:55:ASN:H	51:DT:59:THR:HB	1.85	0.42
54:DW:40:ASN:O	54:DW:41:LYS:HG2	2.19	0.42
56:DY:95:LYS:HD2	56:DY:96:ILE:O	2.20	0.42
1:AA:35:G:H1'	12:AL:115:SER:O	2.19	0.42
1:AA:169:C:H2'	1:AA:170:U:H5'	2.02	0.42
1:AA:180:U:O2'	1:AA:181:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:276:G:C6	1:AA:277:C:C4	3.07	0.42
1:AA:429:U:C1'	1:AA:430:A:H5''	2.49	0.42
1:AA:538:G:OP2	12:AL:112:LYS:HG3	2.19	0.42
1:AA:586:C:H1'	1:AA:878:G:HO2'	1.83	0.42
1:AA:593:G:H1	1:AA:646:U:H3	1.67	0.42
1:AA:781:A:H2'	1:AA:782:A:H5'	2.00	0.42
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.55	0.42
1:AA:1223:C:OP2	1:AA:1224:G:H2'	2.19	0.42
1:AA:1228:C:P	13:AM:108:ARG:HH22	2.43	0.42
2:AB:92:TYR:O	2:AB:151:GLY:C	2.63	0.42
2:AB:193:ASP:OD1	2:AB:193:ASP:C	2.62	0.42
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.19	0.42
4:AD:30:LYS:O	4:AD:32:ALA:N	2.53	0.42
4:AD:99:SER:O	4:AD:140:VAL:HG23	2.20	0.42
8:AH:20:TYR:HD1	8:AH:65:TYR:CD2	2.37	0.42
8:AH:124:ALA:C	8:AH:126:LYS:N	2.75	0.42
11:AK:46:GLY:HA2	11:AK:50:TYR:O	2.20	0.42
14:AN:17:LYS:O	14:AN:19:ARG:N	2.53	0.42
17:AQ:96:GLU:C	17:AQ:98:LEU:N	2.78	0.42
18:AR:37:VAL:CG1	18:AR:41:LYS:HD2	2.49	0.42
24:AY:5:TYR:CD2	24:AY:5:TYR:N	2.88	0.42
24:AY:31:THR:HG23	24:AY:42:ARG:HH11	1.85	0.42
25:B0:27:GLU:HB3	35:BA:856:C:H1'	2.01	0.42
33:B8:37:SER:O	33:B8:39:LYS:N	2.53	0.42
35:BA:271(J):C:C3'	35:BA:271(K):U:H5''	2.49	0.42
35:BA:271(P):C:H5''	43:BI:46:ALA:HB2	2.01	0.42
35:BA:658:C:H2'	35:BA:659:C:C6	2.54	0.42
35:BA:1114:G:C3'	35:BA:1115:G:C5'	2.90	0.42
35:BA:1120:G:H2'	35:BA:1121:C:C6	2.55	0.42
35:BA:1276:A:O2'	49:BR:16:HIS:HE1	2.02	0.42
35:BA:1576:U:O2'	35:BA:1577:C:H5'	2.19	0.42
35:BA:1577:C:H2'	35:BA:1578:U:O4'	2.20	0.42
35:BA:1934:C:O2'	35:BA:1935:G:H5'	2.20	0.42
35:BA:2086:U:H2'	35:BA:2087:G:H8	1.84	0.42
35:BA:2175:C:H1'	37:BC:215:THR:HA	2.02	0.42
35:BA:2199:A:C5'	35:BA:2200:C:OP2	2.66	0.42
35:BA:2346:A:H5'	35:BA:2383:G:H1'	2.02	0.42
35:BA:2678:C:C2	35:BA:2679:A:C8	3.07	0.42
37:BC:75:LEU:HD23	37:BC:95:GLY:H	1.84	0.42
39:BE:38:THR:C	39:BE:40:GLU:H	2.28	0.42
40:BF:184:TYR:O	40:BF:188:ARG:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:151:ALA:H	41:BG:153:ARG:NH1	2.18	0.42
42:BH:54:ARG:CG	42:BH:65:HIS:CD2	3.01	0.42
43:BI:30:LEU:O	43:BI:31:LEU:C	2.63	0.42
43:BI:82:ARG:O	43:BI:83:ALA:CB	2.63	0.42
44:BJ:25:UNK:HA	44:BJ:116:UNK:CB	2.49	0.42
45:BN:15:LEU:HD12	45:BN:134:ARG:HD2	2.01	0.42
47:BP:108:LYS:C	47:BP:110:TYR:N	2.78	0.42
49:BR:3:HIS:O	49:BR:4:LEU:HB3	2.20	0.42
49:BR:37:THR:HG23	49:BR:40:LYS:HE2	2.02	0.42
50:BS:99:LYS:HE2	50:BS:99:LYS:HB3	1.90	0.42
51:BT:28:VAL:HA	51:BT:45:PHE:O	2.20	0.42
51:BT:91:ARG:HB3	51:BT:117:ASP:N	2.35	0.42
52:BU:101:ARG:C	52:BU:102:GLU:HG2	2.45	0.42
53:BV:61:VAL:HG12	53:BV:94:LEU:CD2	2.50	0.42
55:BX:57:LEU:N	55:BX:57:LEU:HD13	2.34	0.42
57:BZ:69:THR:HG22	57:BZ:90:VAL:HG22	2.01	0.42
1:CA:37:U:C2'	1:CA:38:G:H8	2.32	0.42
1:CA:644:G:H5''	8:CH:92:ARG:HH21	1.83	0.42
1:CA:667:G:H4'	15:CO:51:HIS:CE1	2.54	0.42
1:CA:954:G:H2'	1:CA:955:U:C6	2.55	0.42
1:CA:1360:A:O2'	1:CA:1361:G:H5'	2.20	0.42
3:CC:57:ILE:C	3:CC:58:GLU:HG3	2.45	0.42
5:CE:142:LEU:C	5:CE:143:ARG:HE	2.27	0.42
7:CG:64:GLN:O	7:CG:65:ALA:C	2.63	0.42
7:CG:97:GLN:O	7:CG:98:SER:C	2.63	0.42
8:CH:1:MET:H3	8:CH:1:MET:CE	2.33	0.42
10:CJ:63:PHE:HB3	14:CN:56:VAL:HG13	2.02	0.42
12:CL:108:LYS:O	12:CL:109:ASP:HB2	2.20	0.42
22:CV:36:U:C6	22:CV:36:U:C3'	3.03	0.42
27:D2:10:LEU:HD13	27:D2:14:ARG:NH1	2.35	0.42
27:D2:21:LEU:O	27:D2:22:GLU:C	2.63	0.42
29:D4:49:PHE:HD2	29:D4:49:PHE:HA	1.67	0.42
32:D7:5:TRP:CD1	32:D7:7:PRO:HG3	2.55	0.42
35:DA:143:G:H1'	55:DX:37:THR:CG2	2.50	0.42
35:DA:814:C:H5	47:DP:27:HIS:CG	2.37	0.42
35:DA:817:C:H2'	35:DA:818:G:O4'	2.20	0.42
35:DA:845:G:O2'	35:DA:846:C:H5	2.02	0.42
35:DA:1218:C:H2'	35:DA:1219:G:H5'	2.01	0.42
35:DA:1355:G:O2'	35:DA:1356:G:H5'	2.20	0.42
35:DA:1563:G:C4	35:DA:1564:C:C5	3.08	0.42
35:DA:1930:G:N2	35:DA:1968:G:H2'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2419:U:H2'	35:DA:2420:C:C6	2.55	0.42
35:DA:2816:C:O2'	35:DA:2817:G:H5'	2.19	0.42
35:DA:2845:G:OP1	51:DT:56:GLY:N	2.48	0.42
37:DC:75:LEU:HD23	37:DC:95:GLY:H	1.84	0.42
39:DE:35:GLN:HG2	39:DE:36:ARG:N	2.35	0.42
40:DF:201:VAL:O	40:DF:202:PHE:C	2.63	0.42
41:DG:161:THR:C	41:DG:163:ALA:N	2.77	0.42
43:DI:91:SER:O	43:DI:92:VAL:O	2.38	0.42
45:DN:67:LEU:HD12	45:DN:67:LEU:N	2.24	0.42
46:DO:4:PRO:O	46:DO:5:GLN:CB	2.66	0.42
46:DO:102:VAL:CG2	46:DO:121:VAL:HG22	2.49	0.42
47:DP:7:ARG:O	47:DP:10:PRO:HD3	2.20	0.42
49:DR:98:LEU:O	49:DR:113:LEU:HD23	2.19	0.42
50:DS:14:VAL:O	50:DS:16:ASN:N	2.52	0.42
50:DS:90:GLY:O	50:DS:92:TYR:N	2.42	0.42
51:DT:3:ARG:O	51:DT:6:LEU:N	2.53	0.42
51:DT:23:ARG:HH21	51:DT:120:ARG:CD	2.27	0.42
51:DT:114:LEU:O	51:DT:115:ARG:O	2.37	0.42
54:DW:44:ALA:O	54:DW:45:TYR:C	2.63	0.42
55:DX:7:VAL:CG1	55:DX:39:ILE:HD13	2.49	0.42
57:DZ:162:GLU:O	57:DZ:163:LEU:C	2.62	0.42
1:AA:431:A:H2'	1:AA:432:A:O4'	2.20	0.42
1:AA:575:G:H4'	1:AA:576:G:C5'	2.50	0.42
1:AA:953:G:H2'	1:AA:954:G:O4'	2.19	0.42
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.19	0.42
2:AB:127:ILE:HD11	2:AB:139:LYS:HZ1	1.85	0.42
3:AC:57:ILE:C	3:AC:58:GLU:HG3	2.44	0.42
4:AD:191:ARG:HG3	4:AD:191:ARG:NH1	2.35	0.42
5:AE:34:VAL:HG12	5:AE:62:ALA:HB1	2.02	0.42
5:AE:110:LEU:HB3	5:AE:115:VAL:HB	2.02	0.42
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.19	0.42
11:AK:59:TYR:CZ	11:AK:63:LEU:HD11	2.54	0.42
13:AM:90:LEU:O	13:AM:98:VAL:HG21	2.20	0.42
16:AP:5:ARG:HE	16:AP:22:THR:HG21	1.83	0.42
24:AY:10:HIS:N	24:AY:56:SER:O	2.31	0.42
27:B2:29:LYS:HE3	27:B2:57:ILE:HG21	2.02	0.42
33:B8:53:PRO:HG2	33:B8:54:GLU:OE2	2.19	0.42
35:BA:229:A:H3'	35:BA:230:U:H5'	2.01	0.42
35:BA:662:G:OP1	47:BP:18:ARG:HD2	2.20	0.42
35:BA:852:G:C2'	35:BA:853:G:H5'	2.49	0.42
35:BA:1014:U:H2'	35:BA:1015:G:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1168:G:C2	35:BA:1182:A:C2	3.08	0.42
35:BA:1652:A:C2'	35:BA:1653:G:H5'	2.50	0.42
35:BA:1862:G:H1	35:BA:1880:C:H42	1.68	0.42
35:BA:2039:C:O2'	35:BA:2040:C:H5'	2.19	0.42
35:BA:2553:G:H2'	35:BA:2554:U:C4'	2.49	0.42
38:BD:70:TRP:CZ3	38:BD:146:GLU:CD	2.96	0.42
38:BD:161:THR:O	38:BD:162:SER:HB3	2.20	0.42
39:BE:90:THR:CG2	39:BE:91:VAL:N	2.82	0.42
40:BF:180:GLY:O	40:BF:181:LEU:C	2.62	0.42
41:BG:83:ARG:NH1	41:BG:84:LYS:NZ	2.66	0.42
42:BH:148:ILE:C	42:BH:150:ALA:N	2.74	0.42
47:BP:59:LEU:CA	47:BP:61:ARG:HH21	2.32	0.42
47:BP:98:GLU:C	47:BP:101:VAL:HG22	2.44	0.42
48:BQ:131:ILE:C	48:BQ:132:VAL:HG13	2.44	0.42
51:BT:38:ASN:ND2	51:BT:39:ARG:N	2.66	0.42
53:BV:13:ARG:HG2	53:BV:13:ARG:NH1	2.35	0.42
56:BY:16:ALA:O	56:BY:17:SER:O	2.37	0.42
57:BZ:131:ARG:HG2	57:BZ:131:ARG:NH1	2.33	0.42
1:CA:321:A:O2'	1:CA:322:C:H5'	2.20	0.42
1:CA:393:A:C2'	1:CA:394:G:H5'	2.50	0.42
1:CA:405:U:H5''	1:CA:406:G:O4'	2.20	0.42
1:CA:509:A:H5'	4:CD:54:TYR:CD2	2.55	0.42
1:CA:598:U:HO2'	8:CH:94:TYR:HD1	1.66	0.42
2:CB:155:LEU:HG	2:CB:159:PRO:HG3	2.01	0.42
3:CC:206:GLU:O	3:CC:207:VAL:C	2.61	0.42
6:CF:30:LEU:HD23	6:CF:30:LEU:N	2.34	0.42
6:CF:99:ALA:HB3	18:CR:29:PHE:CE1	2.54	0.42
8:CH:65:TYR:N	8:CH:65:TYR:CD1	2.87	0.42
11:CK:88:GLY:O	11:CK:90:GLY:N	2.50	0.42
15:CO:7:GLU:O	15:CO:11:VAL:HG23	2.20	0.42
15:CO:66:LEU:HD13	15:CO:66:LEU:H	1.80	0.42
18:CR:53:ARG:NH2	18:CR:60:ALA:N	2.67	0.42
28:D3:6:VAL:HB	28:D3:54:VAL:HG11	2.00	0.42
30:D5:55:ARG:HD3	30:D5:56:LYS:H	1.84	0.42
32:D7:12:ARG:CD	32:D7:46:VAL:HG21	2.49	0.42
35:DA:118:A:OP2	35:DA:119:A:H2'	2.20	0.42
35:DA:270:A:O2'	35:DA:271:A:H5'	2.20	0.42
35:DA:271(J):C:C3'	35:DA:271(K):U:H5''	2.50	0.42
35:DA:364:C:O2'	35:DA:365:C:H5''	2.20	0.42
35:DA:507:A:C4'	35:DA:508:G:H5'	2.49	0.42
35:DA:615:G:OP2	40:DF:40:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1838:C:N4	35:DA:1898:U:H2'	2.34	0.42
35:DA:1971:A:N3	38:DD:240:ALA:HA	2.35	0.42
35:DA:2228:G:H2'	35:DA:2229:C:H6	1.85	0.42
35:DA:2823:A:OP1	39:DE:113:PHE:HB2	2.19	0.42
38:DD:126:GLN:HE21	38:DD:126:GLN:HB2	1.63	0.42
40:DF:9:ILE:C	40:DF:11:VAL:H	2.28	0.42
41:DG:22:ARG:HH11	41:DG:175:LEU:HD11	1.85	0.42
43:DI:30:LEU:O	43:DI:31:LEU:C	2.63	0.42
43:DI:95:LYS:C	43:DI:97:ILE:N	2.72	0.42
51:DT:74:ARG:HB3	51:DT:76:PHE:CZ	2.55	0.42
55:DX:28:PHE:CE2	55:DX:92:LEU:HD11	2.55	0.42
56:DY:31:LEU:N	56:DY:31:LEU:CD2	2.80	0.42
57:DZ:61:LEU:C	57:DZ:63:ASP:N	2.78	0.42
1:AA:90:U:H6	1:AA:90:U:H3'	1.85	0.42
1:AA:113:G:C4	1:AA:114:U:C5	3.08	0.42
1:AA:115:G:H4'	1:AA:116:A:O5'	2.20	0.42
1:AA:556:C:H2'	1:AA:557:G:H5'	2.02	0.42
1:AA:790:A:N1	1:AA:1497:G:H5''	2.35	0.42
1:AA:997:U:O5'	1:AA:997:U:H6	2.03	0.42
1:AA:1124:G:H1'	10:AJ:38:ILE:HD12	2.01	0.42
1:AA:1256:A:C2	1:AA:1277:C:C6	3.08	0.42
2:AB:17:PHE:HB2	2:AB:44:LEU:HD11	2.02	0.42
2:AB:37:ASN:O	2:AB:37:ASN:OD1	2.37	0.42
3:AC:6:HIS:HB3	14:AN:49:HIS:HD2	1.85	0.42
4:AD:158:ILE:HG23	4:AD:162:LEU:HD11	2.01	0.42
5:AE:91:LEU:HD11	5:AE:110:LEU:HD11	2.01	0.42
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.85	0.42
7:AG:107:ALA:CB	7:AG:134:ALA:HB2	2.49	0.42
8:AH:95:VAL:CG1	8:AH:133:LEU:HD12	2.47	0.42
9:AI:99:LEU:O	9:AI:101:PHE:N	2.53	0.42
12:AL:79:VAL:HG12	12:AL:80:VAL:N	2.35	0.42
16:AP:28:ARG:C	16:AP:30:GLY:N	2.78	0.42
17:AQ:78:GLU:CD	17:AQ:81:ARG:HH11	2.28	0.42
19:AS:44:MET:O	19:AS:46:GLY:N	2.52	0.42
24:AY:83:LEU:O	24:AY:84:LYS:CG	2.67	0.42
26:B1:52:ARG:HA	26:B1:52:ARG:HE	1.84	0.42
29:B4:25:TYR:O	29:B4:26:SER:HB3	2.20	0.42
35:BA:6:A:O2'	45:BN:130:HIS:HD2	2.03	0.42
35:BA:208:C:H2'	35:BA:209:C:C6	2.55	0.42
35:BA:353:G:O2'	35:BA:354:G:H5'	2.20	0.42
35:BA:498:G:H21	56:BY:47:LYS:NZ	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:508:G:O2'	35:BA:509:C:H5''	2.19	0.42
35:BA:663:G:C5	35:BA:664:C:C4	3.08	0.42
35:BA:775:G:C2'	35:BA:776:G:OP2	2.66	0.42
35:BA:1218:C:H2'	35:BA:1219:G:H5'	2.01	0.42
35:BA:1464:C:H2'	35:BA:1465:G:H8	1.84	0.42
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.35	0.42
35:BA:1983:C:H4'	35:BA:2606:C:H4'	2.02	0.42
36:BB:2:C:H2'	36:BB:3:C:H6	1.84	0.42
37:BC:68:LEU:N	37:BC:179:SER:O	2.53	0.42
38:BD:43:ARG:H	38:BD:43:ARG:HG3	1.75	0.42
40:BF:63:LYS:HE2	40:BF:67:GLN:HB3	2.01	0.42
40:BF:67:GLN:O	40:BF:68:LYS:CG	2.68	0.42
42:BH:8:PRO:HD3	42:BH:69:ARG:HG2	2.00	0.42
42:BH:58:GLU:O	42:BH:59:ARG:C	2.62	0.42
42:BH:72:ILE:O	42:BH:73:ALA:C	2.61	0.42
42:BH:163:TYR:N	42:BH:163:TYR:HD1	2.17	0.42
43:BI:93:THR:O	43:BI:94:ALA:C	2.62	0.42
47:BP:99:LEU:HD23	47:BP:99:LEU:C	2.44	0.42
51:BT:13:ARG:C	51:BT:15:VAL:H	2.28	0.42
51:BT:31:SER:C	51:BT:32:TYR:CD2	2.98	0.42
51:BT:57:PHE:C	51:BT:59:THR:H	2.27	0.42
55:BX:48:LYS:HA	55:BX:48:LYS:HE3	2.02	0.42
56:BY:20:TYR:CZ	56:BY:42:VAL:HA	2.55	0.42
56:BY:41:GLY:O	56:BY:42:VAL:C	2.63	0.42
57:BZ:5:LEU:HD21	57:BZ:39:VAL:HB	2.02	0.42
1:CA:11:G:C2'	1:CA:12:U:O5'	2.68	0.42
1:CA:189(I):G:O2'	1:CA:189(J):G:H5'	2.20	0.42
1:CA:321:A:C2	1:CA:333:G:C2	3.07	0.42
1:CA:552:U:O2'	1:CA:553:A:H5'	2.19	0.42
1:CA:828:A:C8	1:CA:859:A:C4	3.07	0.42
1:CA:993:G:N3	1:CA:993:G:H2'	2.34	0.42
1:CA:1057:G:H4'	3:CC:196:LEU:C	2.45	0.42
1:CA:1311:G:N2	1:CA:1312:G:H1'	2.35	0.42
1:CA:1529:G:P	1:CA:1529:G:H3'	2.59	0.42
2:CB:137:ARG:C	2:CB:137:ARG:HH11	2.28	0.42
3:CC:147:LYS:HG3	3:CC:204:LEU:C	2.45	0.42
3:CC:187:ALA:HB3	3:CC:198:VAL:CB	2.44	0.42
4:CD:158:ILE:O	4:CD:162:LEU:HG	2.20	0.42
5:CE:68:GLU:O	5:CE:70:PRO:CD	2.65	0.42
5:CE:106:PRO:O	5:CE:110:LEU:HG	2.20	0.42
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:99:LEU:O	9:CI:101:PHE:N	2.52	0.42
10:CJ:81:THR:HA	10:CJ:84:GLN:NE2	2.34	0.42
11:CK:84:VAL:CG2	11:CK:110:ASP:HA	2.50	0.42
13:CM:16:ASP:OD2	13:CM:17:VAL:HG23	2.20	0.42
13:CM:65:LYS:CB	13:CM:66:LEU:HD12	2.50	0.42
14:CN:44:LEU:C	14:CN:44:LEU:CD1	2.93	0.42
15:CO:36:ILE:O	15:CO:37:ASN:C	2.63	0.42
16:CP:80:PHE:O	16:CP:82:GLN:N	2.53	0.42
17:CQ:18:THR:HG22	17:CQ:19:VAL:N	2.35	0.42
30:D5:54:GLY:O	30:D5:55:ARG:O	2.38	0.42
33:D8:46:ARG:HH11	33:D8:46:ARG:CG	2.33	0.42
35:DA:774:A:C2	35:DA:787:U:O2'	2.60	0.42
35:DA:795:C:H2'	35:DA:796:C:C6	2.55	0.42
35:DA:1107:G:H2'	35:DA:1108:U:C5'	2.50	0.42
35:DA:1516:C:O2'	35:DA:1517:G:H5'	2.20	0.42
35:DA:1576:U:O2'	35:DA:1577:C:H5'	2.20	0.42
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.55	0.42
39:DE:49:LEU:HD21	39:DE:81:ILE:HG12	2.02	0.42
40:DF:22:ALA:CB	40:DF:26:ALA:HB2	2.50	0.42
40:DF:132:VAL:HG13	40:DF:133:ASN:N	2.35	0.42
42:DH:76:VAL:C	42:DH:78:GLY:N	2.78	0.42
42:DH:154:PRO:HA	42:DH:161:GLY:HA3	2.00	0.42
43:DI:3:VAL:HG22	43:DI:19:VAL:O	2.20	0.42
43:DI:114:LEU:O	43:DI:116:LEU:N	2.49	0.42
45:DN:68:GLU:HB2	45:DN:88:GLU:OE1	2.19	0.42
49:DR:78:LYS:O	49:DR:83:ILE:HG12	2.19	0.42
50:DS:15:ARG:HH11	50:DS:15:ARG:HB2	1.77	0.42
51:DT:51:ARG:HD2	51:DT:51:ARG:C	2.44	0.42
53:DV:35:LEU:C	53:DV:37:VAL:N	2.67	0.42
55:DX:70:LEU:HD23	55:DX:71:GLY:N	2.35	0.42
1:AA:8:A:N7	4:AD:208:SER:HB3	2.35	0.42
1:AA:921:U:H2'	1:AA:922:G:O4'	2.20	0.42
1:AA:1056:U:H5'	3:AC:163:ALA:HB3	2.01	0.42
1:AA:1125:U:O2'	1:AA:1126:U:H5''	2.18	0.42
2:AB:53:ARG:HA	2:AB:56:ARG:CG	2.44	0.42
2:AB:92:TYR:CE2	2:AB:151:GLY:HA3	2.55	0.42
2:AB:107:THR:C	2:AB:109:SER:N	2.71	0.42
2:AB:220:ASP:C	2:AB:222:ILE:H	2.27	0.42
3:AC:54:ARG:NH1	3:AC:54:ARG:HG3	2.35	0.42
3:AC:132:ARG:O	3:AC:133:ALA:C	2.62	0.42
3:AC:156:ARG:HH21	3:AC:160:ALA:C	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:31:CYS:O	4:AD:31:CYS:SG	2.78	0.42
6:AF:14:LEU:HD11	6:AF:84:ASN:CG	2.44	0.42
8:AH:33:GLU:O	8:AH:36:LEU:N	2.53	0.42
9:AI:7:THR:HG22	9:AI:8:GLY:H	1.84	0.42
9:AI:15:ALA:HB2	9:AI:65:VAL:CG2	2.50	0.42
9:AI:100:GLY:C	9:AI:102:LEU:N	2.78	0.42
15:AO:18:PHE:HD1	15:AO:19:PRO:O	2.03	0.42
17:AQ:88:TYR:HA	17:AQ:91:ARG:HH12	1.85	0.42
22:AV:22:G:O2'	22:AV:23:C:H5'	2.20	0.42
22:AW:68:C:O2'	22:AW:69:C:H5'	2.19	0.42
24:AY:24:LEU:HD13	24:AY:24:LEU:HA	1.82	0.42
24:AY:74:SER:O	24:AY:82:GLN:CG	2.66	0.42
25:B0:20:ARG:N	25:B0:20:ARG:CD	2.77	0.42
25:B0:43:THR:C	25:B0:45:PHE:N	2.75	0.42
29:B4:26:SER:HB2	41:BG:105:LYS:HZ3	1.84	0.42
35:BA:15:G:O2'	35:BA:16:G:H5'	2.20	0.42
35:BA:218:A:H2	35:BA:235:U:H4'	1.84	0.42
35:BA:269:U:O2	35:BA:269:U:H2'	2.19	0.42
35:BA:271(A):A:H62	35:BA:271(W):G:H21	1.67	0.42
35:BA:271(H):G:HO2'	35:BA:271(I):G:P	2.42	0.42
35:BA:814:C:H4'	35:BA:1224:C:O2	2.19	0.42
35:BA:994:C:OP2	52:BU:54:LYS:NZ	2.45	0.42
35:BA:1281:G:H2'	35:BA:1282:U:C5'	2.50	0.42
35:BA:1327:C:H2'	35:BA:1328:G:O4'	2.19	0.42
35:BA:1502:C:H2'	35:BA:1503:U:H6	1.85	0.42
35:BA:1887:C:H2'	35:BA:1888:G:C5'	2.46	0.42
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.50	0.42
35:BA:2464:C:O2'	35:BA:2465:C:O5'	2.38	0.42
35:BA:2533:A:H2'	35:BA:2534:A:C5'	2.48	0.42
35:BA:2676:C:O2'	35:BA:2677:G:H5'	2.20	0.42
38:BD:44:ASN:CB	38:BD:48:ARG:O	2.68	0.42
38:BD:72:LYS:HE2	38:BD:75:ILE:HD12	2.00	0.42
40:BF:157:VAL:HA	40:BF:176:LEU:O	2.20	0.42
40:BF:182:ASN:N	40:BF:182:ASN:ND2	2.68	0.42
40:BF:183:VAL:O	40:BF:184:TYR:C	2.61	0.42
41:BG:112:PRO:HG2	41:BG:113:ARG:CA	2.37	0.42
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.68	0.42
41:BG:171:ALA:C	41:BG:173:LEU:N	2.78	0.42
49:BR:34:ILE:HD13	49:BR:34:ILE:HA	1.92	0.42
50:BS:66:ALA:HA	50:BS:69:VAL:CG1	2.49	0.42
50:BS:77:ALA:O	50:BS:79:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:31:SER:C	51:BT:32:TYR:CG	2.98	0.42
52:BU:69:CYS:SG	52:BU:79:PHE:CG	3.13	0.42
57:BZ:72:ARG:NH2	57:BZ:97:GLU:O	2.53	0.42
57:BZ:109:ALA:CA	57:BZ:113:ALA:HB3	2.50	0.42
1:CA:22:G:N2	1:CA:914:A:C8	2.88	0.42
1:CA:163:C:H2'	1:CA:164:U:H6	1.85	0.42
1:CA:251:G:H4'	1:CA:252:U:O5'	2.19	0.42
1:CA:333:G:H4'	20:CT:16:HIS:NE2	2.35	0.42
1:CA:486:U:O2'	1:CA:487:A:H5'	2.19	0.42
1:CA:872:A:C5	1:CA:874:G:C8	3.08	0.42
1:CA:886:G:H4'	1:CA:915:A:H1'	2.02	0.42
1:CA:1124:G:N3	10:CJ:38:ILE:HD12	2.35	0.42
1:CA:1225:A:OP1	13:CM:103:THR:N	2.52	0.42
1:CA:1303:C:H2'	1:CA:1304:G:O4'	2.19	0.42
1:CA:1387:G:C6	1:CA:1388:C:N4	2.88	0.42
1:CA:1463:C:H5'	51:DT:115:ARG:HH22	1.85	0.42
2:CB:75:LYS:CA	2:CB:78:GLN:HE21	2.29	0.42
2:CB:219:VAL:HA	2:CB:222:ILE:HG13	2.02	0.42
3:CC:18:TRP:HD1	14:CN:54:PRO:HA	1.82	0.42
3:CC:18:TRP:HE1	14:CN:56:VAL:H	1.67	0.42
3:CC:98:ASN:C	3:CC:100:ALA:H	2.28	0.42
3:CC:103:VAL:O	3:CC:105:GLU:N	2.52	0.42
4:CD:108:LEU:HD23	4:CD:110:PHE:HE1	1.84	0.42
6:CF:91:VAL:HG12	6:CF:92:LYS:O	2.20	0.42
9:CI:10:ARG:HA	9:CI:104:ARG:NH1	2.35	0.42
9:CI:118:LYS:C	9:CI:120:ARG:H	2.28	0.42
10:CJ:64:GLU:O	14:CN:56:VAL:HA	2.20	0.42
13:CM:57:ARG:HH12	29:D4:34:GLU:HG3	1.84	0.42
13:CM:97:PRO:O	13:CM:98:VAL:HA	2.20	0.42
14:CN:20:ALA:O	14:CN:21:TYR:C	2.63	0.42
15:CO:50:HIS:O	15:CO:53:HIS:CB	2.68	0.42
15:CO:82:ILE:CG1	15:CO:87:ILE:HG13	2.29	0.42
19:CS:44:MET:O	19:CS:46:GLY:N	2.53	0.42
27:D2:5:GLU:O	27:D2:9:GLN:HG3	2.20	0.42
28:D3:3:ARG:H	28:D3:60:GLU:N	2.18	0.42
31:D6:30:THR:O	31:D6:32:ASN:N	2.53	0.42
33:D8:43:GLN:O	33:D8:44:LYS:HD2	2.20	0.42
35:DA:266:G:H2'	35:DA:267:C:H5''	2.01	0.42
35:DA:311:A:C6	35:DA:328:U:C4	3.08	0.42
35:DA:662:G:OP1	47:DP:18:ARG:HD2	2.20	0.42
35:DA:960:A:C4'	35:DA:2457:U:H4'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1247:A:OP2	47:DP:18:ARG:NH2	2.52	0.42
35:DA:1467:C:O2'	35:DA:1468:C:H5'	2.20	0.42
35:DA:1485:G:N3	35:DA:1505:C:C5	2.87	0.42
35:DA:2021:C:H4'	35:DA:2022:U:OP2	2.20	0.42
35:DA:2397:G:N2	35:DA:2420:C:H1'	2.35	0.42
35:DA:2439:A:H5'	35:DA:2439:A:C8	2.55	0.42
35:DA:2578:G:OP2	35:DA:2578:G:H4'	2.19	0.42
37:DC:34:THR:O	37:DC:34:THR:HG23	2.20	0.42
39:DE:1:MET:HA	39:DE:200:GLU:OE1	2.20	0.42
39:DE:51:PHE:C	39:DE:74:PRO:CB	2.93	0.42
39:DE:56:PRO:O	39:DE:57:LYS:C	2.63	0.42
40:DF:21:ALA:C	40:DF:23:ASP:N	2.78	0.42
41:DG:16:ARG:CZ	41:DG:28:VAL:CG1	2.98	0.42
45:DN:17:ASP:O	45:DN:18:ALA:C	2.62	0.42
47:DP:59:LEU:CA	47:DP:61:ARG:HH21	2.33	0.42
49:DR:84:ALA:N	49:DR:85:PRO:CD	2.83	0.42
51:DT:89:VAL:C	51:DT:91:ARG:HG3	2.45	0.42
52:DU:86:ALA:CB	52:DU:88:ILE:HG23	2.49	0.42
1:AA:21:G:H2'	1:AA:22:G:C8	2.55	0.41
1:AA:41:G:H2'	1:AA:42:G:C8	2.52	0.41
1:AA:712:A:O2'	1:AA:713:G:H5'	2.19	0.41
1:AA:1129:C:H4'	1:AA:1130:A:H8	1.85	0.41
1:AA:1208:C:H2'	1:AA:1209:C:O4'	2.20	0.41
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.85	0.41
1:AA:1263:C:H42	1:AA:1272:G:H1	1.67	0.41
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.53	0.41
2:AB:21:ARG:HA	2:AB:40:HIS:HD1	1.85	0.41
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.53	0.41
3:AC:78:GLY:O	3:AC:79:ARG:CB	2.67	0.41
4:AD:6:GLY:O	4:AD:8:VAL:HG13	2.20	0.41
5:AE:84:PHE:CE2	5:AE:133:TYR:HB2	2.55	0.41
7:AG:49:ILE:CA	7:AG:52:GLU:HG2	2.48	0.41
10:AJ:62:HIS:CD2	10:AJ:62:HIS:N	2.86	0.41
12:AL:24:LEU:HG	12:AL:61:TYR:CE1	2.55	0.41
13:AM:78:ILE:H	13:AM:78:ILE:HG13	1.50	0.41
15:AO:7:GLU:O	15:AO:11:VAL:HG23	2.20	0.41
15:AO:56:LEU:HD21	35:BA:715:G:C2	2.55	0.41
15:AO:63:ARG:O	15:AO:64:ARG:C	2.62	0.41
16:AP:80:PHE:O	16:AP:82:GLN:N	2.53	0.41
22:AW:53:G:N2	22:AW:62:C:H1'	2.35	0.41
26:B1:25:LYS:C	26:B1:27:GLU:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:46:ASN:HD22	28:B3:46:ASN:HA	1.63	0.41
31:B6:40:CYS:SG	31:B6:45:LYS:NZ	2.90	0.41
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.20	0.41
34:B9:34:GLN:O	34:B9:35:ARG:HB2	2.19	0.41
35:BA:143:G:C1'	55:BX:37:THR:HG21	2.50	0.41
35:BA:309:G:O3'	56:BY:18:GLY:HA2	2.20	0.41
35:BA:405:U:O2	35:BA:405:U:O4'	2.38	0.41
35:BA:621:A:C2'	35:BA:622:G:H5'	2.48	0.41
35:BA:1024:G:H3'	35:BA:1025:G:C5'	2.23	0.41
35:BA:1141:U:OP2	45:BN:63:THR:OG1	2.33	0.41
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.19	0.41
35:BA:1300:U:H3'	35:BA:1300:U:O2	2.20	0.41
35:BA:1439:A:H2'	35:BA:1440:G:O4'	2.19	0.41
35:BA:1471:A:C2	35:BA:1472:A:C4	3.08	0.41
35:BA:1549:C:O2'	35:BA:1550:C:H5'	2.20	0.41
35:BA:1587:A:H3'	35:BA:1588:C:H6	1.85	0.41
35:BA:1721:G:C2	35:BA:1739:U:OP2	2.73	0.41
35:BA:1907:G:H2'	35:BA:1908:C:C6	2.55	0.41
35:BA:1914:C:O2	35:BA:1914:C:O5'	2.38	0.41
35:BA:2007:C:H2'	35:BA:2008:C:H6	1.84	0.41
35:BA:2312:U:H4'	41:BG:71:THR:CG2	2.50	0.41
35:BA:2533:A:H5'	35:BA:2665:A:H1'	2.00	0.41
35:BA:2580:U:H5'	39:BE:131:ALA:N	2.27	0.41
35:BA:2823:A:OP1	39:BE:113:PHE:HB2	2.20	0.41
39:BE:4:ILE:HD11	39:BE:28:ALA:O	2.19	0.41
39:BE:52:LEU:O	39:BE:74:PRO:CA	2.67	0.41
39:BE:72:VAL:O	39:BE:73:GLU:C	2.63	0.41
41:BG:72:ARG:CD	41:BG:86:MET:HB2	2.49	0.41
43:BI:58:LEU:HG	43:BI:61:ARG:HH21	1.85	0.41
43:BI:91:SER:O	43:BI:92:VAL:O	2.38	0.41
46:BO:31:LYS:C	46:BO:32:TYR:CD1	2.98	0.41
46:BO:32:TYR:N	46:BO:32:TYR:HD1	2.17	0.41
47:BP:103:ALA:O	47:BP:104:GLY:O	2.37	0.41
47:BP:114:ILE:HD12	47:BP:114:ILE:C	2.45	0.41
51:BT:29:ARG:CG	51:BT:85:LYS:HA	2.50	0.41
52:BU:91:ASP:OD1	52:BU:96:ALA:CA	2.69	0.41
52:BU:95:LEU:HD12	53:BV:11:GLN:HB2	2.02	0.41
53:BV:6:LYS:HE2	53:BV:6:LYS:HB3	1.93	0.41
56:BY:26:LYS:CG	56:BY:27:VAL:H	2.23	0.41
57:BZ:120:ILE:H	57:BZ:120:ILE:HG12	1.73	0.41
1:CA:512:U:H2'	1:CA:513:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:712:A:O2'	1:CA:713:G:H5'	2.20	0.41
1:CA:778:G:O2'	1:CA:779:C:H5'	2.20	0.41
1:CA:947:G:H2'	1:CA:948:C:H6	1.83	0.41
1:CA:959:A:H2'	1:CA:960:U:C4'	2.50	0.41
1:CA:1060:C:O2	1:CA:1198:G:N2	2.51	0.41
1:CA:1150:U:H2'	1:CA:1151:A:C8	2.55	0.41
1:CA:1325:C:H5''	21:CU:6:ARG:HH21	1.84	0.41
1:CA:1426:C:O2	1:CA:1475:G:C2	2.72	0.41
1:CA:1442(A):G:H22	51:DT:119:LYS:HB2	1.85	0.41
3:CC:156:ARG:HH21	3:CC:160:ALA:C	2.27	0.41
3:CC:170:GLN:HG2	3:CC:171:GLY:N	2.35	0.41
6:CF:52:ILE:HD13	6:CF:87:ARG:HH22	1.84	0.41
6:CF:62:TRP:HB2	18:CR:35:ARG:NH1	2.35	0.41
8:CH:38:ILE:O	8:CH:38:ILE:HG22	2.20	0.41
8:CH:124:ALA:C	8:CH:126:LYS:N	2.76	0.41
13:CM:99:ARG:O	13:CM:100:GLY:C	2.63	0.41
16:CP:6:LEU:N	16:CP:6:LEU:HD12	2.35	0.41
18:CR:33:ASP:OD2	18:CR:33:ASP:C	2.62	0.41
20:CT:72:LEU:CD1	20:CT:77:ALA:HA	2.50	0.41
22:CV:25:C:H2'	22:CV:26:G:C8	2.55	0.41
25:D0:27:GLU:HB3	35:DA:856:C:H1'	2.01	0.41
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.34	0.41
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.20	0.41
34:D9:22:ARG:NH1	35:DA:2741:A:H5''	2.34	0.41
35:DA:28:A:H61	35:DA:512:G:H1'	1.85	0.41
35:DA:45:C:OP2	35:DA:215:G:H2'	2.20	0.41
35:DA:141:A:H1'	35:DA:1408:C:O2'	2.20	0.41
35:DA:270:A:N1	35:DA:366:C:O2'	2.49	0.41
35:DA:271(A):A:H62	35:DA:271(W):G:H21	1.67	0.41
35:DA:285:C:O2'	35:DA:286:C:H5'	2.20	0.41
35:DA:286:C:C2	35:DA:287:C:C5	3.08	0.41
35:DA:1480:G:N1	35:DA:1512:U:O2	2.53	0.41
35:DA:1485:G:N2	35:DA:1505:C:C6	2.81	0.41
35:DA:1590:U:H2'	35:DA:1591:G:C8	2.54	0.41
35:DA:1833:U:C2	35:DA:1834:U:C6	3.07	0.41
35:DA:2303:G:C1'	41:DG:132:ASN:HD22	2.30	0.41
35:DA:2585:U:O2	35:DA:2585:U:O4'	2.36	0.41
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.85	0.41
35:DA:2785:C:H2'	35:DA:2786:U:O4'	2.20	0.41
35:DA:2789:C:H4'	35:DA:2789:C:OP1	2.20	0.41
38:DD:8:PRO:CG	38:DD:14:ARG:HB2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:73:GLU:HA	39:DE:74:PRO:HD3	1.86	0.41
40:DF:36:VAL:HG11	40:DF:183:VAL:CG1	2.50	0.41
40:DF:64:ILE:CG2	40:DF:65:TRP:N	2.83	0.41
41:DG:16:ARG:HD3	41:DG:28:VAL:HG11	2.02	0.41
41:DG:96:ARG:HD2	41:DG:96:ARG:N	2.34	0.41
41:DG:116:ASP:O	41:DG:117:PHE:CB	2.67	0.41
41:DG:141:PHE:HB2	41:DG:144:ILE:HD12	2.01	0.41
41:DG:159:VAL:O	41:DG:159:VAL:HG23	2.19	0.41
41:DG:178:PHE:HB3	41:DG:180:PHE:HE2	1.85	0.41
43:DI:29:TYR:HE1	43:DI:33:ARG:HE	1.59	0.41
43:DI:51:ILE:HG22	43:DI:52:ARG:N	2.34	0.41
43:DI:76:THR:HG22	43:DI:141:LYS:HE2	2.02	0.41
43:DI:128:LEU:HB3	43:DI:129:THR:H	1.73	0.41
45:DN:93:THR:O	45:DN:94:HIS:CB	2.68	0.41
45:DN:128:HIS:O	45:DN:130:HIS:N	2.49	0.41
47:DP:58:THR:C	47:DP:61:ARG:HE	2.26	0.41
47:DP:126:VAL:CG1	47:DP:148:LEU:HD11	2.32	0.41
49:DR:13:HIS:O	49:DR:17:ARG:N	2.52	0.41
51:DT:25:GLY:O	51:DT:26:ASP:HB2	2.20	0.41
51:DT:57:PHE:CD2	51:DT:58:ASN:N	2.77	0.41
51:DT:62:THR:HA	51:DT:74:ARG:O	2.20	0.41
51:DT:70:VAL:HG12	51:DT:71:GLY:N	2.35	0.41
52:DU:98:LEU:O	52:DU:99:ALA:C	2.61	0.41
56:DY:13:VAL:HG22	56:DY:14:LEU:O	2.20	0.41
56:DY:81:LYS:CE	56:DY:97:ARG:HE	2.32	0.41
56:DY:91:GLU:HB3	56:DY:92:ASN:H	1.66	0.41
1:AA:198:G:H1	1:AA:219:C:H42	1.68	0.41
1:AA:552:U:O2'	1:AA:553:A:H5'	2.20	0.41
1:AA:629:G:H2'	1:AA:630:G:O4'	2.19	0.41
1:AA:757:U:OP1	1:AA:822:C:O2'	2.36	0.41
1:AA:775:G:HO2'	1:AA:776:G:H5'	1.83	0.41
1:AA:926:G:H2'	1:AA:1505:G:N3	2.36	0.41
1:AA:979:C:H2'	1:AA:980:C:H5''	2.02	0.41
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.20	0.41
1:AA:1077:G:H2'	1:AA:1079:G:OP2	2.20	0.41
2:AB:91:PRO:HB3	2:AB:155:LEU:HB2	2.01	0.41
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.34	0.41
3:AC:98:ASN:C	3:AC:100:ALA:H	2.29	0.41
3:AC:113:ALA:O	3:AC:115:LEU:N	2.53	0.41
4:AD:8:VAL:O	4:AD:11:LEU:HG	2.20	0.41
4:AD:109:GLY:C	4:AD:111:ALA:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:48:ALA:O	5:AE:50:GLU:N	2.53	0.41
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.20	0.41
6:AF:89:MET:CE	18:AR:75:ILE:HD12	2.51	0.41
8:AH:64:LYS:CG	8:AH:79:VAL:HG21	2.47	0.41
10:AJ:46:ARG:HG2	10:AJ:46:ARG:NH1	2.34	0.41
11:AK:24:SER:O	11:AK:26:ASN:N	2.53	0.41
14:AN:47:LEU:C	14:AN:49:HIS:N	2.78	0.41
16:AP:5:ARG:NE	16:AP:22:THR:CG2	2.83	0.41
17:AQ:87:LYS:NZ	17:AQ:87:LYS:CB	2.83	0.41
20:AT:81:LYS:C	20:AT:83:ARG:H	2.27	0.41
22:AV:55:U:O2'	22:AV:56:C:OP1	2.30	0.41
23:AX:13:A:H5''	23:AX:14:A:C4'	2.50	0.41
26:B1:85:LEU:HD23	26:B1:85:LEU:O	2.20	0.41
35:BA:286:C:H2'	35:BA:287:C:H6	1.84	0.41
35:BA:486:C:H4'	54:BW:60:ASN:ND2	2.35	0.41
35:BA:1485:G:N3	35:BA:1505:C:C5	2.88	0.41
35:BA:1588:C:H2'	35:BA:1589:C:H6	1.85	0.41
35:BA:2789:C:OP1	35:BA:2789:C:H4'	2.19	0.41
37:BC:48:GLY:HA3	37:BC:204:ALA:HB1	2.01	0.41
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	2.02	0.41
38:BD:267:SER:O	38:BD:270:ILE:HG13	2.19	0.41
39:BE:5:LEU:HD12	39:BE:51:PHE:HB2	2.02	0.41
39:BE:52:LEU:C	39:BE:74:PRO:HB3	2.45	0.41
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.20	0.41
39:BE:143:ASN:HD22	39:BE:147:PRO:CD	2.33	0.41
39:BE:182:LEU:C	39:BE:183:LEU:HD12	2.45	0.41
40:BF:41:LEU:HD23	40:BF:41:LEU:HA	1.87	0.41
40:BF:129:PHE:C	40:BF:131:GLY:H	2.28	0.41
43:BI:102:SER:HB3	43:BI:109:ILE:CB	2.46	0.41
44:BJ:77:UNK:O	44:BJ:79:UNK:N	2.53	0.41
47:BP:81:GLN:HG2	47:BP:106:LEU:CD1	2.48	0.41
48:BQ:37:LEU:HD12	48:BQ:128:LYS:HB3	2.01	0.41
48:BQ:140:ALA:O	48:BQ:141:GLN:CB	2.68	0.41
57:BZ:81:ARG:CB	57:BZ:81:ARG:HH11	2.33	0.41
1:CA:37:U:H2'	1:CA:38:G:C8	2.51	0.41
1:CA:543:C:C2	1:CA:544:G:C8	3.08	0.41
1:CA:617:G:O2'	16:CP:44:THR:HB	2.20	0.41
1:CA:822:C:O2'	1:CA:823:G:H5'	2.19	0.41
1:CA:1277:C:HO2'	1:CA:1279:A:H8	1.67	0.41
1:CA:1378:C:C5	1:CA:1379:G:C8	3.09	0.41
2:CB:224:GLN:C	2:CB:226:ARG:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:43:LEU:O	3:CC:47:LEU:HB3	2.21	0.41
3:CC:143:GLU:OE1	3:CC:143:GLU:HA	2.18	0.41
3:CC:164:ARG:NH2	3:CC:166:GLU:OE1	2.53	0.41
4:CD:15:GLU:HG3	4:CD:63:LYS:CE	2.50	0.41
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	2.01	0.41
5:CE:144:THR:C	5:CE:146:ALA:N	2.78	0.41
9:CI:114:TYR:O	9:CI:115:GLY:C	2.64	0.41
11:CK:18:ARG:HH21	11:CK:35:PRO:C	2.28	0.41
16:CP:49:LEU:HD13	16:CP:73:LEU:HB3	2.00	0.41
17:CQ:6:LEU:HD12	17:CQ:6:LEU:N	2.34	0.41
17:CQ:50:LYS:HG3	17:CQ:51:TYR:N	2.35	0.41
25:D0:72:ARG:O	25:D0:73:GLY:C	2.61	0.41
34:D9:34:GLN:O	34:D9:35:ARG:HB2	2.20	0.41
35:DA:271(D):G:O2'	35:DA:271(E):U:H5'	2.20	0.41
35:DA:375:C:H2'	35:DA:376:C:H6	1.85	0.41
35:DA:528:A:C2	35:DA:2043:C:H4'	2.55	0.41
35:DA:614:U:H3'	35:DA:614(A):U:C6	2.55	0.41
35:DA:614(C):A:C4	40:DF:180:GLY:HA2	2.55	0.41
35:DA:1171:G:H1	35:DA:1178:C:H42	1.68	0.41
35:DA:1210:A:O2'	35:DA:1211:U:OP2	2.38	0.41
35:DA:1242:A:C2'	35:DA:1243:G:H5'	2.51	0.41
35:DA:1512:U:H2'	35:DA:1513:C:C6	2.54	0.41
35:DA:1669:A:H2'	35:DA:1670:C:H5'	2.02	0.41
35:DA:1790:C:C5	35:DA:1828:G:C2	3.07	0.41
35:DA:1815:A:P	38:DD:54:ARG:HH22	2.43	0.41
35:DA:2111:C:H1'	35:DA:2118:U:H5'	2.01	0.41
35:DA:2222:G:C5'	38:DD:149:PRO:HG3	2.49	0.41
35:DA:2821:A:P	39:DE:110:GLY:H	2.43	0.41
36:DB:52:A:H62	50:DS:33:LYS:HB2	1.85	0.41
36:DB:80:U:O2'	36:DB:81:G:H5''	2.20	0.41
38:DD:125:ILE:CD1	38:DD:136:ILE:HA	2.49	0.41
39:DE:53:PRO:O	39:DE:54:GLN:C	2.62	0.41
39:DE:101:ARG:HH11	39:DE:171:GLU:CA	2.33	0.41
39:DE:182:LEU:C	39:DE:183:LEU:HD12	2.45	0.41
41:DG:111:LEU:HD13	41:DG:179:PRO:CG	2.50	0.41
43:DI:64:GLU:HA	43:DI:64:GLU:OE2	2.21	0.41
43:DI:88:ILE:CG1	43:DI:89:TYR:N	2.83	0.41
46:DO:114:ILE:HD12	46:DO:114:ILE:N	2.33	0.41
50:DS:99:LYS:HE2	50:DS:99:LYS:HB3	1.90	0.41
51:DT:31:SER:CB	51:DT:43:GLN:O	2.68	0.41
52:DU:69:CYS:SG	52:DU:79:PHE:CG	3.13	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:38:LEU:C	53:DV:39:LEU:HD22	2.46	0.41
53:DV:100:ARG:O	53:DV:100:ARG:CD	2.65	0.41
54:DW:29:LEU:O	54:DW:29:LEU:HD12	2.20	0.41
54:DW:75:TYR:C	54:DW:75:TYR:CD2	2.97	0.41
55:DX:14:SER:O	55:DX:17:ALA:HB3	2.20	0.41
56:DY:16:ALA:O	56:DY:17:SER:O	2.38	0.41
1:AA:1152:A:C5'	10:AJ:70:ARG:NH2	2.75	0.41
1:AA:1360:A:OP1	1:AA:1360:A:H8	2.02	0.41
3:AC:170:GLN:HG2	3:AC:171:GLY:N	2.34	0.41
4:AD:98:GLU:HA	4:AD:103:ASN:ND2	2.35	0.41
4:AD:191:ARG:HA	4:AD:191:ARG:HD2	1.86	0.41
5:AE:11:ILE:HD11	5:AE:33:VAL:CG2	2.50	0.41
5:AE:11:ILE:CG2	5:AE:105:VAL:HG22	2.44	0.41
6:AF:8:ILE:HG22	6:AF:10:LEU:HD11	2.02	0.41
6:AF:87:ARG:C	6:AF:88:VAL:HG23	2.46	0.41
8:AH:6:ILE:O	8:AH:10:LEU:HG	2.20	0.41
9:AI:110:GLU:O	9:AI:111:ARG:O	2.38	0.41
10:AJ:92:THR:CG2	10:AJ:93:GLY:H	2.14	0.41
11:AK:110:ASP:O	18:AR:84:LYS:CB	2.62	0.41
12:AL:39:THR:HA	12:AL:50:ARG:O	2.19	0.41
19:AS:42:PRO:O	19:AS:43:GLU:HB3	2.20	0.41
19:AS:67:VAL:C	19:AS:69:HIS:H	2.27	0.41
22:AV:29:G:C2	22:AV:30:G:C8	3.08	0.41
22:AW:41:C:H6	22:AW:41:C:O5'	2.03	0.41
27:B2:22:GLU:CG	27:B2:64:LEU:HD11	2.50	0.41
30:B5:55:ARG:HD3	30:B5:56:LYS:H	1.85	0.41
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	2.02	0.41
34:B9:22:ARG:NH1	35:BA:2741:A:OP1	2.53	0.41
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	2.21	0.41
35:BA:464:U:H2'	35:BA:465:G:O4'	2.21	0.41
35:BA:581:C:H2'	35:BA:582:G:C8	2.56	0.41
35:BA:1332:G:N2	35:BA:1609:A:C2'	2.84	0.41
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.20	0.41
35:BA:2033:A:O2'	35:BA:2034:U:P	2.78	0.41
35:BA:2124:G:H2'	35:BA:2125:G:H5'	2.01	0.41
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.55	0.41
35:BA:2469:A:H3'	35:BA:2470:G:O4'	2.21	0.41
35:BA:2850:A:OP2	35:BA:2866:U:H5	2.04	0.41
37:BC:80:GLY:HA3	37:BC:97:GLU:HG3	2.02	0.41
40:BF:2:LYS:O	40:BF:24:LEU:HG	2.19	0.41
40:BF:3:GLU:HA	40:BF:24:LEU:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:43:LEU:O	41:BG:88:ILE:HG21	2.20	0.41
41:BG:58:GLN:CD	41:BG:58:GLN:C	2.87	0.41
42:BH:158:HIS:CE1	42:BH:169:VAL:O	2.74	0.41
43:BI:8:PRO:HB3	43:BI:15:VAL:H	1.85	0.41
44:BJ:121:UNK:O	44:BJ:122:UNK:CB	2.69	0.41
45:BN:19:GLU:CD	45:BN:19:GLU:C	2.88	0.41
46:BO:26:LYS:O	46:BO:27:GLY:O	2.38	0.41
47:BP:50:ARG:HG3	47:BP:51:PHE:CD2	2.55	0.41
48:BQ:35:VAL:CG1	48:BQ:130:LYS:HE2	2.51	0.41
49:BR:9:LYS:C	49:BR:10:LEU:HG	2.45	0.41
50:BS:25:ARG:HH11	50:BS:25:ARG:HB3	1.84	0.41
51:BT:31:SER:HG	51:BT:43:GLN:H	1.66	0.41
51:BT:90:GLN:NE2	51:BT:124:ASP:OD2	2.48	0.41
56:BY:27:VAL:CA	56:BY:28:LYS:HZ1	2.27	0.41
1:CA:38:G:N2	1:CA:397:A:C5'	2.84	0.41
1:CA:127:G:H2'	1:CA:128:G:C8	2.51	0.41
1:CA:353:A:H2'	1:CA:354:G:OP2	2.20	0.41
1:CA:784:C:H4'	35:DA:1837:C:OP1	2.21	0.41
1:CA:918:A:H2'	1:CA:919:A:H8	1.84	0.41
1:CA:979:C:C3'	1:CA:980:C:C5'	2.88	0.41
1:CA:1053:G:O6	1:CA:1200:C:H5''	2.20	0.41
1:CA:1266:G:H2'	1:CA:1268:A:OP2	2.21	0.41
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.51	0.41
1:CA:1381:U:C5	1:CA:1382:C:C4	3.09	0.41
1:CA:1415:G:C4	1:CA:1486:G:C2	3.07	0.41
3:CC:148:GLY:HA3	3:CC:203:PHE:HB3	2.02	0.41
4:CD:13:ARG:NH1	4:CD:36:ARG:HD3	2.34	0.41
4:CD:57:ARG:HD2	4:CD:57:ARG:H	1.85	0.41
4:CD:106:TYR:CD2	4:CD:106:TYR:C	2.98	0.41
9:CI:86:VAL:CG2	9:CI:96:LEU:HD22	2.46	0.41
12:CL:116:LYS:O	12:CL:117:TYR:HB2	2.20	0.41
13:CM:71:ARG:O	13:CM:74:VAL:N	2.53	0.41
15:CO:18:PHE:CD1	15:CO:18:PHE:C	2.97	0.41
19:CS:67:VAL:C	19:CS:69:HIS:H	2.27	0.41
20:CT:81:LYS:C	20:CT:83:ARG:H	2.27	0.41
22:CV:56:C:O5'	22:CV:56:C:C6	2.53	0.41
22:CW:63:G:O2'	37:DC:53:ARG:HD3	2.21	0.41
58:CX:19:G:C5'	58:CX:19:G:C4	3.00	0.41
26:D1:56:GLN:HG3	26:D1:87:PRO:HD3	2.01	0.41
29:D4:42:PHE:CD1	29:D4:43:TYR:N	2.77	0.41
33:D8:40:GLU:O	33:D8:42:ARG:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D9:19:ARG:HA	35:DA:2757:A:OP1	2.20	0.41
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.20	0.41
35:DA:530:G:N3	35:DA:530:G:O4'	2.51	0.41
35:DA:611:C:H2'	35:DA:612:C:C6	2.53	0.41
35:DA:639:U:O2'	35:DA:640:C:H5'	2.19	0.41
35:DA:1332:G:N2	35:DA:1609:A:C2'	2.84	0.41
35:DA:1491:G:O4'	38:DD:99:ASP:HB3	2.20	0.41
35:DA:1963:U:H4'	35:DA:1964:G:OP1	2.20	0.41
35:DA:2124:G:H2'	35:DA:2125:G:H5'	2.02	0.41
38:DD:15:PHE:O	38:DD:205:VAL:CG1	2.60	0.41
38:DD:67:PHE:CE1	38:DD:157:ARG:CZ	3.04	0.41
39:DE:72:VAL:O	39:DE:73:GLU:C	2.63	0.41
39:DE:111:ARG:CD	49:DR:2:ARG:NH2	2.82	0.41
40:DF:110:LEU:O	40:DF:114:VAL:HG23	2.20	0.41
41:DG:92:VAL:O	41:DG:92:VAL:HG13	2.20	0.41
43:DI:110:ASP:CB	43:DI:130:TYR:OH	2.68	0.41
44:DJ:124:UNK:O	44:DJ:125:UNK:C	2.68	0.41
45:DN:18:ALA:HB1	45:DN:21:LYS:HB3	2.01	0.41
46:DO:18:LYS:HB2	46:DO:45:GLU:CG	2.46	0.41
46:DO:24:VAL:O	46:DO:24:VAL:HG13	2.20	0.41
48:DQ:2:LEU:CD1	48:DQ:69:PHE:HE1	2.34	0.41
49:DR:28:LEU:C	49:DR:30:THR:H	2.28	0.41
51:DT:83:ILE:CG1	51:DT:84:GLN:N	2.67	0.41
51:DT:106:SER:O	51:DT:107:ASP:HB3	2.19	0.41
52:DU:25:TRP:O	52:DU:28:ARG:HB2	2.20	0.41
52:DU:92:ARG:HD2	53:DV:11:GLN:NE2	2.36	0.41
56:DY:50:ARG:HA	56:DY:50:ARG:HD3	1.80	0.41
57:DZ:12:GLY:HA2	57:DZ:36:LYS:NZ	2.33	0.41
57:DZ:28:MET:HG3	57:DZ:37:VAL:CG1	2.49	0.41
1:AA:9:G:H2'	1:AA:10:A:H8	1.85	0.41
1:AA:107:G:H2'	1:AA:108:G:H5'	2.02	0.41
1:AA:562:C:C2	12:AL:13:GLU:HB3	2.55	0.41
1:AA:606:G:N2	1:AA:631:G:H2'	2.35	0.41
1:AA:667:G:H4'	15:AO:51:HIS:CE1	2.56	0.41
1:AA:967:C:H4'	9:AI:125:TYR:HE2	1.83	0.41
1:AA:1076:C:N3	1:AA:1082:G:C2	2.88	0.41
1:AA:1216:G:OP1	14:AN:2:ALA:HA	2.20	0.41
1:AA:1258:G:H2'	1:AA:1259:C:C5	2.55	0.41
2:AB:74:LYS:O	2:AB:76:GLN:N	2.53	0.41
2:AB:97:TRP:CZ3	2:AB:172:ILE:HD13	2.54	0.41
2:AB:169:LYS:O	2:AB:170:GLU:HG3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:204:ASN:ND2	2:AB:206:ASP:H	2.18	0.41
3:AC:13:GLY:HA3	14:AN:57:ARG:CD	2.50	0.41
4:AD:13:ARG:O	4:AD:14:ARG:C	2.63	0.41
4:AD:192:GLU:C	4:AD:194:LEU:N	2.78	0.41
5:AE:6:PHE:N	5:AE:63:ARG:HH12	2.18	0.41
5:AE:36:ASP:OD1	5:AE:38:GLN:HB2	2.20	0.41
5:AE:41:VAL:HG23	5:AE:67:VAL:HG11	2.01	0.41
5:AE:92:LYS:O	5:AE:118:ILE:HD12	2.21	0.41
8:AH:68:ARG:HG2	8:AH:69:ARG:N	2.35	0.41
8:AH:86:ILE:CB	8:AH:133:LEU:HD22	2.50	0.41
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.97	0.41
11:AK:84:VAL:CG2	11:AK:110:ASP:HA	2.49	0.41
11:AK:125:PHE:C	11:AK:127:LYS:N	2.76	0.41
12:AL:19:SER:C	12:AL:21:VAL:N	2.78	0.41
13:AM:71:ARG:O	13:AM:74:VAL:N	2.53	0.41
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.20	0.41
17:AQ:3:LYS:O	17:AQ:5:VAL:HG23	2.20	0.41
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	2.21	0.41
18:AR:53:ARG:NH2	18:AR:59:SER:C	2.78	0.41
19:AS:30:LEU:C	19:AS:30:LEU:HD23	2.45	0.41
24:AY:3:LYS:HB2	24:AY:3:LYS:HE3	1.80	0.41
35:BA:364:C:C2'	35:BA:365:C:C5'	2.96	0.41
35:BA:522:G:H2'	35:BA:523:C:H6	1.85	0.41
35:BA:585:G:H2'	35:BA:1251:C:H42	1.86	0.41
35:BA:616:G:H5'	40:BF:107:LYS:NZ	2.35	0.41
35:BA:637:A:H4'	35:BA:638:G:O5'	2.21	0.41
35:BA:639:U:C2	35:BA:640:C:C5	3.08	0.41
35:BA:639:U:O2'	35:BA:640:C:H5'	2.20	0.41
35:BA:863:A:OP2	48:BQ:22:LYS:HD2	2.20	0.41
35:BA:956:G:N2	35:BA:959:A:H3'	2.35	0.41
35:BA:1417:C:H4'	35:BA:1588:C:O2	2.20	0.41
35:BA:1844:C:O2'	35:BA:1845:G:H5'	2.20	0.41
35:BA:1861:G:O2'	35:BA:1862:G:H5'	2.20	0.41
35:BA:1888:G:H5'	35:BA:1888:G:N3	2.36	0.41
35:BA:2406:U:C4	47:BP:72:PRO:HG2	2.55	0.41
35:BA:2627:G:N3	35:BA:2781:A:H2	2.18	0.41
35:BA:2845:G:O2'	35:BA:2846:G:H5'	2.20	0.41
38:BD:125:ILE:CD1	38:BD:136:ILE:HA	2.51	0.41
39:BE:93:VAL:HG11	39:BE:180:ASN:CA	2.50	0.41
40:BF:3:GLU:O	40:BF:19:GLU:HB3	2.20	0.41
40:BF:36:VAL:HG11	40:BF:183:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:79:GLY:O	40:BF:80:ALA:C	2.63	0.41
41:BG:83:ARG:NH1	41:BG:84:LYS:HZ1	2.18	0.41
42:BH:7:LEU:N	42:BH:7:LEU:HD12	2.11	0.41
43:BI:2:LYS:HB3	43:BI:39:ALA:CB	2.50	0.41
43:BI:78:THR:HA	43:BI:141:LYS:HB2	2.03	0.41
43:BI:123:LEU:HD21	43:BI:144:VAL:HG13	2.00	0.41
49:BR:56:LYS:HA	49:BR:84:ALA:HB1	2.01	0.41
49:BR:85:PRO:C	49:BR:87:TYR:N	2.78	0.41
49:BR:101:ALA:O	49:BR:102:GLU:HB2	2.20	0.41
50:BS:31:SER:O	50:BS:32:LEU:C	2.62	0.41
51:BT:36:GLU:O	51:BT:38:ASN:ND2	2.53	0.41
52:BU:83:LEU:HA	52:BU:88:ILE:HG12	2.02	0.41
56:BY:28:LYS:HZ2	56:BY:28:LYS:CA	2.27	0.41
56:BY:81:LYS:HD3	56:BY:96:ILE:CG2	2.50	0.41
57:BZ:30:ASN:HA	57:BZ:89:PHE:HE2	1.86	0.41
57:BZ:54:HIS:CD2	57:BZ:101:PRO:HG3	2.55	0.41
57:BZ:94:GLU:HA	57:BZ:94:GLU:OE1	2.20	0.41
1:CA:8:A:N7	4:CD:208:SER:CB	2.83	0.41
1:CA:82:U:H2'	1:CA:83:U:C5	2.54	0.41
1:CA:178:C:H2'	1:CA:179:A:C4'	2.49	0.41
1:CA:411:A:H62	1:CA:413:G:H21	1.68	0.41
1:CA:560:U:O2'	1:CA:561:U:OP2	2.29	0.41
1:CA:838:G:H8	1:CA:838:G:O5'	2.02	0.41
1:CA:948:C:O2'	1:CA:949:A:H5'	2.20	0.41
1:CA:954:G:O6	1:CA:1225:A:N6	2.54	0.41
1:CA:1014:A:H4'	19:CS:14:HIS:HD1	1.86	0.41
1:CA:1014:A:H4'	19:CS:14:HIS:ND1	2.34	0.41
1:CA:1060:C:C2'	1:CA:1061:G:H5'	2.49	0.41
1:CA:1081:G:OP1	5:CE:16:THR:O	2.38	0.41
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.85	0.41
1:CA:1278:U:H5''	1:CA:1279:A:C8	2.55	0.41
1:CA:1380:U:C4	7:CG:3:ARG:HD3	2.55	0.41
1:CA:1421:G:C6	1:CA:1480:G:N1	2.88	0.41
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.54	0.41
1:CA:1487:G:H2'	1:CA:1488:G:O4'	2.20	0.41
2:CB:97:TRP:CZ3	2:CB:172:ILE:HD13	2.54	0.41
2:CB:101:MET:CA	2:CB:108:ILE:HG21	2.49	0.41
3:CC:134:ILE:HG23	3:CC:151:VAL:CG1	2.51	0.41
3:CC:147:LYS:HB2	3:CC:203:PHE:C	2.45	0.41
3:CC:186:PHE:CE2	3:CC:188:LEU:HD21	2.55	0.41
4:CD:13:ARG:O	4:CD:16:GLY:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:57:LYS:O	5:CE:61:TYR:HD2	2.02	0.41
5:CE:70:PRO:HB3	5:CE:144:THR:CG2	2.50	0.41
5:CE:79:GLU:HA	5:CE:91:LEU:O	2.19	0.41
5:CE:91:LEU:HD11	5:CE:110:LEU:HD11	2.01	0.41
5:CE:100:VAL:O	5:CE:107:ARG:NH2	2.50	0.41
8:CH:82:HIS:CE1	8:CH:84:ARG:HB2	2.56	0.41
8:CH:86:ILE:CB	8:CH:133:LEU:HD22	2.51	0.41
11:CK:23:ALA:HA	11:CK:28:THR:HA	2.02	0.41
11:CK:109:VAL:HG12	11:CK:110:ASP:N	2.35	0.41
13:CM:117:VAL:O	13:CM:117:VAL:HG22	2.20	0.41
15:CO:86:GLY:O	15:CO:87:ILE:HG23	2.20	0.41
16:CP:48:TRP:CD1	16:CP:48:TRP:H	2.37	0.41
19:CS:42:PRO:O	19:CS:43:GLU:HB3	2.20	0.41
26:D1:51:VAL:HG22	26:D1:52:ARG:H	1.86	0.41
33:D8:53:PRO:HG2	33:D8:54:GLU:OE2	2.20	0.41
35:DA:271(A):A:H1'	35:DA:365:C:O4'	2.21	0.41
35:DA:304:G:H2'	35:DA:305:U:C6	2.55	0.41
35:DA:632:A:N3	35:DA:2403:C:O2'	2.38	0.41
35:DA:636:G:H4'	35:DA:638:G:O3'	2.21	0.41
35:DA:768:G:C6	35:DA:769:G:C5	3.07	0.41
35:DA:910:A:N3	35:DA:2264:C:O2'	2.51	0.41
35:DA:1860:G:H1	35:DA:1882:C:H42	1.68	0.41
35:DA:2149:G:H2'	35:DA:2150:U:O4'	2.20	0.41
35:DA:2627:G:N3	35:DA:2781:A:H2	2.18	0.41
35:DA:2699:C:H2'	35:DA:2700:C:O4'	2.21	0.41
36:DB:6:C:C2	36:DB:116:G:N2	2.88	0.41
36:DB:68:C:H2'	36:DB:69:G:H8	1.85	0.41
38:DD:2:ALA:O	38:DD:3:VAL:HG23	2.21	0.41
39:DE:93:VAL:HG11	39:DE:180:ASN:CA	2.50	0.41
39:DE:184:VAL:C	39:DE:186:GLY:N	2.78	0.41
41:DG:41:GLN:CA	41:DG:155:MET:HB3	2.50	0.41
41:DG:61:ALA:HB2	41:DG:68:PRO:HD3	2.02	0.41
41:DG:81:LYS:HZ2	41:DG:81:LYS:CB	2.31	0.41
42:DH:94:TYR:CD1	42:DH:160:LYS:HG2	2.56	0.41
42:DH:158:HIS:CE1	42:DH:169:VAL:O	2.74	0.41
47:DP:114:ILE:HD12	47:DP:114:ILE:C	2.45	0.41
51:DT:13:ARG:C	51:DT:15:VAL:H	2.29	0.41
52:DU:95:LEU:HD13	53:DV:4:ILE:CG2	2.51	0.41
53:DV:34:GLU:O	53:DV:34:GLU:CG	2.68	0.41
55:DX:8:ILE:HD12	55:DX:8:ILE:N	2.35	0.41
55:DX:26:TYR:CD1	55:DX:89:ILE:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DX:26:TYR:O	55:DX:81:VAL:HG22	2.21	0.41
56:DY:27:VAL:CA	56:DY:28:LYS:HE3	2.51	0.41
57:DZ:86:VAL:HG12	57:DZ:87:ASP:N	2.36	0.41
1:AA:274:A:H4'	1:AA:275:G:OP1	2.19	0.41
1:AA:296:U:H2'	1:AA:297:G:C8	2.56	0.41
1:AA:321:A:C2	1:AA:333:G:C2	3.09	0.41
1:AA:811:C:H4'	1:AA:900:A:N6	2.35	0.41
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.56	0.41
1:AA:1280:A:C8	10:AJ:41:PRO:HD3	2.55	0.41
1:AA:1378:C:C5	1:AA:1379:G:C8	3.09	0.41
1:AA:1457:G:O2'	1:AA:1458:G:H5'	2.20	0.41
3:AC:15:THR:HG22	3:AC:16:ARG:H	1.84	0.41
3:AC:47:LEU:CD2	3:AC:68:VAL:HG11	2.51	0.41
3:AC:103:VAL:O	3:AC:105:GLU:N	2.53	0.41
4:AD:11:LEU:HD23	4:AD:11:LEU:H	1.84	0.41
4:AD:129:ASN:N	4:AD:129:ASN:ND2	2.68	0.41
5:AE:79:GLU:HA	5:AE:91:LEU:O	2.21	0.41
9:AI:98:PRO:O	9:AI:99:LEU:HD22	2.18	0.41
13:AM:12:ASN:O	13:AM:44:ARG:HD2	2.21	0.41
13:AM:102:ARG:HG3	13:AM:102:ARG:HH11	1.85	0.41
17:AQ:81:ARG:C	17:AQ:83:ASP:H	2.27	0.41
19:AS:11:VAL:HG13	19:AS:12:ASP:N	2.35	0.41
22:AV:37:A:C2	23:AX:16:A:C6	3.09	0.41
22:AV:51:C:C2	22:AV:52:G:C8	3.09	0.41
24:AY:31:THR:C	24:AY:32:PRO:O	2.60	0.41
27:B2:22:GLU:HG2	27:B2:64:LEU:HD11	2.03	0.41
28:B3:8:LEU:HB3	28:B3:31:LEU:HA	2.03	0.41
28:B3:43:ILE:N	28:B3:43:ILE:CD1	2.83	0.41
35:BA:953:A:C2'	35:BA:954:G:H5'	2.50	0.41
35:BA:955:C:OP1	48:BQ:87:LYS:NZ	2.37	0.41
35:BA:1129:A:H2	35:BA:2569:G:N3	2.18	0.41
35:BA:1145:C:O2'	35:BA:1146:C:H5'	2.20	0.41
35:BA:1188:U:H2'	35:BA:1189:A:H5'	2.01	0.41
35:BA:1385:G:O2'	35:BA:1396:U:H6	2.04	0.41
35:BA:1544:A:C2	35:BA:1545:A:C2	3.07	0.41
35:BA:1815:A:P	38:BD:54:ARG:HH22	2.44	0.41
35:BA:2567:G:H2'	35:BA:2568:C:H6	1.85	0.41
37:BC:85:GLU:HG2	37:BC:85:GLU:O	2.20	0.41
38:BD:39:LYS:HB2	38:BD:62:TYR:HB2	2.01	0.41
38:BD:61:LEU:HD13	38:BD:61:LEU:HA	1.79	0.41
38:BD:120:GLY:HA2	38:BD:190:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:28:ALA:O	39:BE:29:GLY:O	2.38	0.41
43:BI:62:LYS:HA	43:BI:133:HIS:NE2	2.35	0.41
45:BN:3:THR:O	45:BN:4:TYR:CD1	2.74	0.41
45:BN:32:THR:CG2	45:BN:37:LYS:HB2	2.43	0.41
51:BT:13:ARG:CZ	51:BT:13:ARG:CA	2.96	0.41
56:BY:31:LEU:N	56:BY:31:LEU:CD2	2.82	0.41
57:BZ:116:VAL:HG12	57:BZ:117:LEU:N	2.35	0.41
1:CA:11:G:O2'	1:CA:12:U:C5'	2.55	0.41
1:CA:19:C:O2	1:CA:917:G:C2	2.74	0.41
1:CA:31:G:C8	1:CA:48:C:C4	3.09	0.41
1:CA:107:G:C2'	1:CA:108:G:H5'	2.51	0.41
1:CA:376:G:O4'	16:CP:28:ARG:HD3	2.20	0.41
1:CA:715:A:O2'	1:CA:716:A:H5'	2.20	0.41
1:CA:828:A:H5''	1:CA:859:A:C2	2.56	0.41
1:CA:862:C:H2'	1:CA:863:U:H5'	2.01	0.41
1:CA:937:A:C2	1:CA:1379:G:C6	3.08	0.41
1:CA:1060:C:H2'	1:CA:1061:G:H5'	2.01	0.41
1:CA:1165:C:H42	1:CA:1171:G:H22	1.68	0.41
1:CA:1343:G:O2'	9:CI:121:ARG:HA	2.19	0.41
1:CA:1409:C:N3	1:CA:1410:G:N7	2.68	0.41
1:CA:1487:G:H3'	1:CA:1488:G:C8	2.54	0.41
1:CA:1528:U:O2	1:CA:1530:G:H5'	2.21	0.41
2:CB:197:VAL:HG11	2:CB:200:ILE:HG21	2.03	0.41
9:CI:92:TYR:HB3	9:CI:95:LYS:HD2	2.03	0.41
10:CJ:29:ARG:HB3	10:CJ:29:ARG:CZ	2.49	0.41
12:CL:82:ILE:HD11	12:CL:95:TYR:HB3	2.01	0.41
13:CM:7:VAL:O	13:CM:7:VAL:HG12	2.20	0.41
13:CM:9:ILE:HG22	13:CM:11:ARG:HG3	2.02	0.41
13:CM:14:ARG:C	13:CM:16:ASP:N	2.79	0.41
13:CM:37:THR:O	13:CM:55:ARG:NE	2.53	0.41
18:CR:71:LYS:O	18:CR:72:ARG:C	2.63	0.41
19:CS:13:ASP:O	19:CS:15:LEU:N	2.53	0.41
27:D2:6:VAL:C	27:D2:8:LYS:N	2.73	0.41
29:D4:52:THR:CG2	29:D4:53:GLU:H	2.05	0.41
33:D8:47:LYS:H	33:D8:47:LYS:HG3	1.81	0.41
35:DA:84:A:O5'	56:DY:9:LYS:HE3	2.19	0.41
35:DA:318:C:O2'	35:DA:319:C:H5'	2.20	0.41
35:DA:637:A:H4'	35:DA:638:G:O5'	2.21	0.41
35:DA:1114:G:H3'	35:DA:1115:G:C5'	2.46	0.41
35:DA:1471:A:N3	35:DA:1471:A:H2'	2.36	0.41
35:DA:1771:C:H1'	35:DA:1786:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1861:G:O2'	35:DA:1862:G:H5'	2.21	0.41
35:DA:2236:C:C2'	35:DA:2237:G:H5'	2.50	0.41
35:DA:2525:G:O2'	35:DA:2526:G:H5'	2.20	0.41
38:DD:99:ASP:OD2	38:DD:99:ASP:N	2.52	0.41
41:DG:121:ASN:HB3	41:DG:124:SER:OG	2.19	0.41
42:DH:77:LYS:N	42:DH:77:LYS:CD	2.84	0.41
42:DH:85:LYS:HZ3	42:DH:133:VAL:HG11	1.84	0.41
43:DI:77:LEU:O	43:DI:78:THR:HB	2.20	0.41
43:DI:125:GLU:OE1	43:DI:125:GLU:HA	2.20	0.41
45:DN:30:ILE:HD13	45:DN:54:VAL:HG21	2.02	0.41
46:DO:80:ASP:OD2	51:DT:71:GLY:HA3	2.20	0.41
46:DO:86:ILE:HD12	46:DO:86:ILE:N	2.35	0.41
47:DP:81:GLN:HG2	47:DP:106:LEU:CD1	2.47	0.41
47:DP:108:LYS:C	47:DP:110:TYR:N	2.78	0.41
50:DS:66:ALA:C	50:DS:69:VAL:HG12	2.45	0.41
51:DT:78:LEU:HD23	51:DT:79:HIS:CE1	2.52	0.41
56:DY:4:LYS:HD2	56:DY:4:LYS:C	2.46	0.41
57:DZ:31:ARG:HG3	57:DZ:32:HIS:N	2.35	0.41
57:DZ:59:LEU:HG	57:DZ:69:THR:OG1	2.21	0.41
57:DZ:126:VAL:HG12	57:DZ:163:LEU:HA	2.03	0.41
57:DZ:155:LEU:O	57:DZ:157:LEU:N	2.54	0.41
57:DZ:158:PRO:O	57:DZ:161:VAL:HG23	2.19	0.41
1:AA:143:A:H2	1:AA:220:G:H1	1.68	0.41
1:AA:226:G:C2	1:AA:227:G:C8	3.09	0.41
1:AA:429:U:OP1	4:AD:32:ALA:HB1	2.21	0.41
1:AA:683:G:H2'	1:AA:684:A:H8	1.85	0.41
1:AA:1069:C:N4	1:AA:1094:G:N2	2.69	0.41
1:AA:1347:G:H21	1:AA:1373:G:H2'	1.79	0.41
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.19	0.41
1:AA:1374:A:H1'	7:AG:31:MET:CE	2.51	0.41
1:AA:1399:C:C3'	1:AA:1400:C:H5'	2.46	0.41
3:AC:134:ILE:HD12	3:AC:166:GLU:HG2	2.03	0.41
5:AE:41:VAL:O	5:AE:66:MET:HA	2.20	0.41
7:AG:119:ARG:C	7:AG:121:ALA:H	2.28	0.41
8:AH:63:LEU:CB	8:AH:65:TYR:CE1	3.02	0.41
9:AI:50:LEU:HD21	9:AI:81:ILE:CG2	2.50	0.41
9:AI:50:LEU:O	9:AI:53:VAL:HG22	2.20	0.41
9:AI:96:LEU:O	9:AI:99:LEU:O	2.38	0.41
11:AK:91:ARG:O	11:AK:94:ALA:HB3	2.21	0.41
12:AL:114:ARG:HG3	12:AL:114:ARG:HH11	1.85	0.41
13:AM:117:VAL:O	13:AM:117:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:30:ALA:O	15:AO:31:LEU:C	2.63	0.41
17:AQ:54:GLY:HA3	17:AQ:82:MET:SD	2.61	0.41
19:AS:8:GLY:O	19:AS:10:PHE:HD1	2.03	0.41
22:AV:56:C:C6	22:AV:56:C:P	3.13	0.41
26:B1:25:LYS:HB2	35:BA:388:G:H5'	2.02	0.41
28:B3:28:LEU:HA	28:B3:33:GLN:OE1	2.21	0.41
29:B4:14:ILE:N	29:B4:14:ILE:CD1	2.83	0.41
33:B8:7:HIS:HB2	33:B8:59:LYS:HB3	2.02	0.41
33:B8:56:GLU:C	33:B8:59:LYS:HZ1	2.28	0.41
35:BA:304:G:H2'	35:BA:305:U:C6	2.55	0.41
35:BA:536:A:H2'	35:BA:537:C:C6	2.55	0.41
35:BA:1259:G:H2'	35:BA:1260:G:C8	2.55	0.41
35:BA:1331:A:O2'	35:BA:1332:G:H5''	2.20	0.41
35:BA:1567:A:O4'	35:BA:1568:G:C2	2.74	0.41
35:BA:1641:A:H2'	35:BA:1642:G:O4'	2.21	0.41
35:BA:1679:U:C2'	35:BA:1680:U:H5'	2.50	0.41
35:BA:2405:G:HO2'	35:BA:2406:U:P	2.43	0.41
37:BC:34:THR:O	37:BC:34:THR:HG23	2.21	0.41
38:BD:24:ILE:HD12	38:BD:25:THR:CA	2.50	0.41
38:BD:79:VAL:HG11	38:BD:111:LEU:CD1	2.51	0.41
40:BF:167:ALA:HA	40:BF:170:LEU:HD23	2.02	0.41
43:BI:79:ILE:HG13	43:BI:92:VAL:CG2	2.50	0.41
43:BI:93:THR:CG2	43:BI:95:LYS:H	2.34	0.41
43:BI:98:ALA:CB	43:BI:111:PRO:HA	2.50	0.41
43:BI:110:ASP:CB	43:BI:130:TYR:OH	2.69	0.41
43:BI:125:GLU:OE2	43:BI:141:LYS:HG2	2.21	0.41
45:BN:68:GLU:O	45:BN:69:GLN:CB	2.69	0.41
45:BN:70:LYS:O	45:BN:86:PRO:HA	2.20	0.41
45:BN:108:PRO:O	45:BN:113:GLY:HA3	2.20	0.41
48:BQ:41:TRP:HB3	48:BQ:94:VAL:HB	2.01	0.41
49:BR:11:ASN:O	49:BR:12:ARG:CG	2.61	0.41
49:BR:82:GLU:O	49:BR:86:ARG:HG3	2.20	0.41
50:BS:92:TYR:O	50:BS:94:TYR:N	2.53	0.41
54:BW:20:VAL:O	54:BW:23:LEU:HB2	2.19	0.41
57:BZ:48:PHE:C	57:BZ:50:GLN:N	2.79	0.41
1:CA:562:C:N4	1:CA:884:U:C6	2.88	0.41
1:CA:622:A:C8	1:CA:623:C:C6	3.08	0.41
1:CA:668:G:O2'	1:CA:669:U:H5'	2.20	0.41
1:CA:683:G:H2'	1:CA:684:A:C8	2.56	0.41
1:CA:710:G:O2'	1:CA:711:G:H5'	2.21	0.41
1:CA:880:C:O2'	1:CA:881:G:H5'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:971:G:OP1	1:CA:972:C:H5''	2.20	0.41
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.20	0.41
1:CA:1057:G:C4'	3:CC:196:LEU:O	2.64	0.41
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.20	0.41
1:CA:1149:C:OP1	9:CI:14:VAL:HG21	2.21	0.41
1:CA:1269:A:H5'	21:CU:18:TYR:O	2.21	0.41
1:CA:1320:C:O2	19:CS:72:GLY:C	2.64	0.41
1:CA:1347:G:C8	9:CI:107:ARG:HB2	2.55	0.41
1:CA:1374:A:C1'	7:CG:31:MET:HE1	2.50	0.41
1:CA:1473:A:C2'	1:CA:1474:G:H5'	2.49	0.41
3:CC:90:GLU:HA	3:CC:93:LYS:HZ1	1.85	0.41
4:CD:25:ARG:NH1	4:CD:35:ARG:HH12	2.02	0.41
4:CD:89:THR:O	4:CD:90:GLY:C	2.64	0.41
5:CE:55:VAL:O	5:CE:58:ALA:HB3	2.21	0.41
5:CE:103:GLY:C	5:CE:105:VAL:N	2.76	0.41
7:CG:54:THR:OG1	7:CG:125:MET:HE3	2.21	0.41
7:CG:145:ALA:O	7:CG:146:GLU:CB	2.67	0.41
11:CK:37:GLY:O	11:CK:39:PRO:HD3	2.21	0.41
11:CK:120:ARG:HH11	11:CK:120:ARG:HD3	1.76	0.41
13:CM:69:GLU:OE1	13:CM:70:LEU:N	2.54	0.41
14:CN:41:ARG:NE	14:CN:42:ILE:HD11	2.34	0.41
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.68	0.41
17:CQ:67:LYS:HA	17:CQ:70:ARG:NH1	2.25	0.41
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.35	0.41
29:D4:35:VAL:HG21	41:DG:113:ARG:HD2	2.01	0.41
30:D5:45:VAL:HA	30:D5:51:TYR:CD1	2.56	0.41
31:D6:15:GLU:OE1	31:D6:43:CYS:SG	2.77	0.41
31:D6:19:ARG:HD3	35:DA:2400:G:O3'	2.21	0.41
31:D6:19:ARG:HB2	31:D6:20:ASN:H	1.71	0.41
33:D8:30:ARG:HA	33:D8:30:ARG:HD3	1.54	0.41
35:DA:15:G:O2'	35:DA:16:G:H5'	2.19	0.41
35:DA:271(E):U:H2'	35:DA:271(F):C:H6	1.83	0.41
35:DA:352:G:H4'	35:DA:353:G:N7	2.36	0.41
35:DA:1025:G:C4	35:DA:1135:C:H1'	2.56	0.41
35:DA:1034:G:H2'	35:DA:1035:U:O4'	2.21	0.41
35:DA:1247:A:OP1	40:DF:95:ARG:NH2	2.50	0.41
35:DA:1428:C:O2'	35:DA:1569:A:OP2	2.29	0.41
35:DA:1578:U:H2'	35:DA:1579:A:C5'	2.51	0.41
35:DA:1982:C:C5'	35:DA:1983:C:OP2	2.69	0.41
35:DA:2040:C:H2'	35:DA:2041:U:O4'	2.20	0.41
35:DA:2206:G:N3	35:DA:2206:G:C3'	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2808:U:H5'	35:DA:2891:G:O6	2.20	0.41
37:DC:48:GLY:HA3	37:DC:204:ALA:HB1	2.01	0.41
37:DC:80:GLY:HA3	37:DC:97:GLU:HG3	2.03	0.41
41:DG:117:PHE:CE1	41:DG:119:GLY:N	2.89	0.41
41:DG:170:ARG:HB2	41:DG:170:ARG:CZ	2.51	0.41
47:DP:47:ASP:OD1	47:DP:49:ARG:HB2	2.20	0.41
47:DP:101:VAL:C	47:DP:103:ALA:N	2.79	0.41
47:DP:147:LEU:O	47:DP:148:LEU:HB2	2.21	0.41
48:DQ:103:MET:HE1	48:DQ:125:LEU:CD1	2.45	0.41
49:DR:89:ASP:O	49:DR:90:ARG:C	2.64	0.41
50:DS:14:VAL:C	50:DS:16:ASN:N	2.78	0.41
51:DT:29:ARG:CG	51:DT:85:LYS:HA	2.51	0.41
53:DV:51:VAL:HG12	53:DV:52:VAL:O	2.20	0.41
57:DZ:8:TYR:N	57:DZ:8:TYR:CD1	2.89	0.41
1:AA:131:C:H2'	1:AA:132:C:H6	1.84	0.41
1:AA:255:G:H5'	17:AQ:16:GLN:O	2.21	0.41
1:AA:291:C:O2'	1:AA:292:G:H5'	2.20	0.41
1:AA:375:U:OP1	16:AP:69:THR:HB	2.21	0.41
1:AA:585:G:OP1	17:AQ:37:LYS:HE2	2.21	0.41
1:AA:640:A:C2'	1:AA:641:U:H5'	2.51	0.41
1:AA:979:C:C3'	1:AA:980:C:C5'	2.89	0.41
1:AA:1053:G:N7	1:AA:1200:C:H5''	2.36	0.41
1:AA:1071:C:O2'	1:AA:1072:G:H5'	2.21	0.41
2:AB:101:MET:HA	2:AB:108:ILE:CG2	2.47	0.41
2:AB:175:ARG:HA	2:AB:178:ARG:HB2	2.01	0.41
3:AC:186:PHE:O	3:AC:187:ALA:HB2	2.20	0.41
3:AC:195:VAL:O	3:AC:196:LEU:HD22	2.21	0.41
4:AD:173:TRP:C	4:AD:186:LEU:HD12	2.45	0.41
4:AD:188:LEU:H	4:AD:188:LEU:CD1	2.32	0.41
8:AH:44:PHE:CD1	8:AH:79:VAL:HG12	2.56	0.41
9:AI:113:LYS:H	9:AI:119:ALA:HA	1.86	0.41
10:AJ:28:ARG:CA	10:AJ:34:VAL:HG23	2.46	0.41
12:AL:25:LYS:HB2	12:AL:30:ARG:HH12	1.86	0.41
13:AM:56:LEU:C	13:AM:56:LEU:HD13	2.46	0.41
13:AM:118:ALA:HB3	22:AV:29:G:C5'	2.51	0.41
15:AO:82:ILE:HA	15:AO:87:ILE:HD11	2.03	0.41
18:AR:36:ASN:HB3	18:AR:39:VAL:HG23	1.99	0.41
19:AS:9:VAL:O	19:AS:9:VAL:HG12	2.20	0.41
20:AT:69:GLY:O	20:AT:73:HIS:CD2	2.73	0.41
27:B2:64:LEU:HD23	27:B2:68:ARG:HD3	2.02	0.41
27:B2:69:ARG:NH1	35:BA:111:A:H5''	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:34:TRP:CA	35:BA:2420:C:OP1	2.66	0.41
35:BA:113:G:H5'	35:BA:114:U:OP1	2.21	0.41
35:BA:171:G:H2'	35:BA:172:C:C6	2.54	0.41
35:BA:745:G:H2'	35:BA:746:A:H5'	2.02	0.41
35:BA:1034:G:H2'	35:BA:1035:U:O4'	2.20	0.41
35:BA:1357:U:H2'	35:BA:1358:G:O4'	2.21	0.41
35:BA:1387:C:H5'	35:BA:1469:A:H4'	2.03	0.41
35:BA:1476:C:H2'	35:BA:1477:A:H8	1.86	0.41
35:BA:1572:A:H2'	35:BA:1573:G:O4'	2.20	0.41
35:BA:1593:G:H2'	35:BA:1594:G:O4'	2.20	0.41
35:BA:1921:G:O2'	35:BA:1922:G:H5'	2.21	0.41
35:BA:2785:C:H2'	35:BA:2786:U:O4'	2.20	0.41
35:BA:2854:G:O2'	35:BA:2855:C:H5'	2.21	0.41
38:BD:152:GLY:O	38:BD:154:LYS:CG	2.68	0.41
38:BD:211:ARG:HA	38:BD:214:TRP:CE3	2.56	0.41
39:BE:129:HIS:O	39:BE:130:GLY:O	2.38	0.41
41:BG:17:PRO:HA	41:BG:20:ILE:HD12	2.01	0.41
41:BG:55:LYS:O	41:BG:58:GLN:NE2	2.52	0.41
45:BN:67:LEU:H	45:BN:67:LEU:CD1	2.27	0.41
47:BP:59:LEU:O	47:BP:59:LEU:CG	2.68	0.41
47:BP:83:VAL:N	47:BP:115:LEU:CD2	2.83	0.41
49:BR:65:LEU:HD12	49:BR:65:LEU:HA	1.63	0.41
50:BS:64:GLU:HA	50:BS:67:ARG:HB3	2.02	0.41
52:BU:92:ARG:HD2	52:BU:95:LEU:CD1	2.50	0.41
57:BZ:80:ARG:O	57:BZ:81:ARG:C	2.63	0.41
1:CA:33:A:C2'	1:CA:34:C:OP1	2.69	0.41
1:CA:56:U:O2'	1:CA:57:G:H5'	2.21	0.41
1:CA:66:G:H4'	1:CA:173:U:C5	2.55	0.41
1:CA:261:U:C5	20:CT:79:ARG:NE	2.88	0.41
1:CA:869:G:H4'	1:CA:872:A:N9	2.35	0.41
1:CA:871:U:O2'	1:CA:872:A:C5'	2.69	0.41
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	2.01	0.41
1:CA:1076:C:N3	1:CA:1082:G:C2	2.89	0.41
1:CA:1148:U:C4'	9:CI:16:ARG:HD2	2.50	0.41
1:CA:1494:G:H2'	1:CA:1495:U:H6	1.83	0.41
2:CB:193:ASP:OD1	2:CB:196:LEU:HG	2.20	0.41
3:CC:15:THR:HG22	3:CC:16:ARG:H	1.86	0.41
3:CC:67:THR:HG22	3:CC:69:HIS:CD2	2.55	0.41
3:CC:126:ARG:O	3:CC:127:ARG:HB2	2.20	0.41
3:CC:172:ARG:O	3:CC:173:VAL:CG2	2.68	0.41
3:CC:195:VAL:O	3:CC:196:LEU:HD22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:80:VAL:HA	58:CX:12:A:N6	2.36	0.41
9:CI:50:LEU:O	9:CI:53:VAL:HG22	2.21	0.41
9:CI:97:LYS:HD2	9:CI:97:LYS:HA	1.85	0.41
9:CI:123:PRO:O	9:CI:124:GLN:C	2.63	0.41
10:CJ:35:SER:N	10:CJ:73:ASP:O	2.54	0.41
12:CL:25:LYS:HD3	12:CL:30:ARG:NH2	2.32	0.41
13:CM:29:ARG:HD3	13:CM:64:TRP:CE3	2.56	0.41
13:CM:78:ILE:H	13:CM:78:ILE:HG13	1.50	0.41
58:CX:16:A:N1	58:CX:17:U:C5	2.89	0.41
25:D0:45:PHE:HE2	25:D0:69:PHE:CE2	2.39	0.41
26:D1:29:GLY:O	26:D1:31:GLY:N	2.53	0.41
26:D1:64:ALA:C	26:D1:66:HIS:H	2.29	0.41
26:D1:74:VAL:O	26:D1:77:ALA:HB3	2.21	0.41
27:D2:4:SER:C	27:D2:6:VAL:N	2.79	0.41
27:D2:47:ASN:C	27:D2:49:LYS:N	2.77	0.41
32:D7:29:LYS:O	32:D7:33:ARG:HG3	2.21	0.41
33:D8:4:MET:HE2	35:DA:593:G:C1'	2.51	0.41
35:DA:6:A:O2'	45:DN:130:HIS:HD2	2.04	0.41
35:DA:285:C:H2'	35:DA:286:C:H6	1.86	0.41
35:DA:405:U:O2	35:DA:405:U:O4'	2.38	0.41
35:DA:443:A:H1'	35:DA:1201:C:O4'	2.21	0.41
35:DA:648:G:H1'	35:DA:2351:G:OP1	2.20	0.41
35:DA:1014:U:H2'	35:DA:1015:G:H8	1.84	0.41
35:DA:1502:C:H2'	35:DA:1503:U:H6	1.84	0.41
35:DA:1636:C:H2'	35:DA:1637:A:H8	1.86	0.41
35:DA:1763:G:H2'	35:DA:1764:G:H5'	2.02	0.41
35:DA:1820:U:C2	38:DD:202:LYS:HB3	2.56	0.41
35:DA:2464:C:O2'	35:DA:2465:C:H6	2.03	0.41
35:DA:2880:C:O2'	49:DR:90:ARG:HD3	2.21	0.41
37:DC:68:LEU:N	37:DC:179:SER:O	2.52	0.41
38:DD:171:ASP:O	38:DD:187:GLY:N	2.53	0.41
39:DE:28:ALA:O	39:DE:29:GLY:O	2.38	0.41
39:DE:90:THR:CG2	39:DE:91:VAL:N	2.83	0.41
40:DF:158:THR:HB	40:DF:195:ASP:OD2	2.21	0.41
41:DG:173:LEU:O	41:DG:176:LEU:HB2	2.20	0.41
43:DI:93:THR:CG2	43:DI:95:LYS:H	2.34	0.41
44:DJ:96:UNK:O	44:DJ:98:UNK:N	2.54	0.41
45:DN:24:GLY:C	45:DN:26:LEU:H	2.28	0.41
46:DO:98:VAL:HG13	46:DO:118:ALA:HA	2.02	0.41
48:DQ:35:VAL:CG1	48:DQ:130:LYS:HE2	2.51	0.41
50:DS:44:LYS:C	50:DS:46:VAL:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:57:PHE:C	51:DT:59:THR:H	2.28	0.41
52:DU:114:LYS:HG2	52:DU:114:LYS:H	1.62	0.41
53:DV:19:LYS:HG3	53:DV:20:LEU:H	1.84	0.41
55:DX:43:VAL:HG23	55:DX:51:VAL:CG2	2.51	0.41
56:DY:19:LYS:C	56:DY:20:TYR:CD1	2.99	0.41
1:AA:79:G:H1'	1:AA:91:C:H42	1.86	0.41
1:AA:359:U:H2'	1:AA:360:A:C8	2.56	0.41
1:AA:397:A:N6	1:AA:548:G:C5	2.89	0.41
1:AA:665:A:H2'	1:AA:725:G:N2	2.34	0.41
1:AA:716:A:H1'	11:AK:118:GLY:O	2.21	0.41
1:AA:1452:C:O4'	1:AA:1456:G:C2	2.74	0.41
2:AB:112:VAL:C	2:AB:114:ARG:N	2.76	0.41
2:AB:177:ALA:HB1	2:AB:182:ILE:CB	2.27	0.41
3:AC:37:GLN:C	3:AC:39:ILE:N	2.79	0.41
3:AC:150:LYS:HG3	3:AC:169:ALA:CB	2.42	0.41
4:AD:3:ARG:CZ	4:AD:69:GLY:HA3	2.51	0.41
4:AD:101:LEU:C	4:AD:103:ASN:H	2.28	0.41
4:AD:138:TYR:CE2	4:AD:139:ARG:O	2.74	0.41
4:AD:158:ILE:O	4:AD:162:LEU:HG	2.21	0.41
5:AE:144:THR:O	5:AE:145:LYS:C	2.64	0.41
7:AG:41:ARG:HG2	7:AG:42:ILE:N	2.35	0.41
11:AK:101:SER:O	11:AK:103:LEU:N	2.53	0.41
13:AM:3:ARG:HE	13:AM:7:VAL:HG13	1.84	0.41
16:AP:12:LYS:C	16:AP:14:ASN:H	2.28	0.41
16:AP:68:ASP:O	16:AP:71:ARG:HG2	2.20	0.41
19:AS:45:VAL:O	19:AS:45:VAL:HG23	2.20	0.41
22:AV:36:U:H1'	24:AY:89:LYS:HD2	2.03	0.41
25:B0:43:THR:HG22	35:BA:2331:G:O2'	2.21	0.41
26:B1:46:LEU:HD23	26:B1:61:ARG:NE	2.36	0.41
29:B4:52:THR:CG2	29:B4:53:GLU:N	2.75	0.41
29:B4:52:THR:O	29:B4:53:GLU:HB2	2.19	0.41
30:B5:17:ASP:O	30:B5:18:ALA:C	2.62	0.41
31:B6:33:LYS:HA	31:B6:33:LYS:CE	2.45	0.41
31:B6:52:VAL:CG1	31:B6:53:LYS:N	2.78	0.41
35:BA:27:G:N2	35:BA:512:G:C2'	2.84	0.41
35:BA:428:A:OP2	35:BA:428:A:H8	2.04	0.41
35:BA:607:U:P	40:BF:103:LYS:HG3	2.60	0.41
35:BA:1107:G:H2'	35:BA:1108:U:C5'	2.51	0.41
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.55	0.41
35:BA:1368:G:H2'	35:BA:1369:G:H8	1.86	0.41
35:BA:1858:G:N2	35:BA:1883:G:H2'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1909:C:H6	35:BA:1909:C:H5''	1.85	0.41
35:BA:1930:G:N2	35:BA:1968:G:H2'	2.35	0.41
35:BA:2767:C:C2	35:BA:2768:C:C5	3.09	0.41
39:BE:65:GLY:C	39:BE:67:PHE:N	2.67	0.41
41:BG:104:GLU:C	41:BG:106:LEU:N	2.78	0.41
41:BG:162:THR:HG22	41:BG:162:THR:O	2.20	0.41
44:BJ:124:UNK:O	44:BJ:125:UNK:C	2.68	0.41
45:BN:47:ALA:HB2	45:BN:112:LEU:CD1	2.42	0.41
47:BP:6:LEU:N	47:BP:6:LEU:CD2	2.83	0.41
47:BP:41:ARG:N	47:BP:41:ARG:HD2	2.35	0.41
47:BP:112:LEU:HD23	47:BP:114:ILE:N	2.35	0.41
48:BQ:35:VAL:HG23	48:BQ:101:ARG:C	2.45	0.41
49:BR:17:ARG:HH11	49:BR:17:ARG:CG	2.32	0.41
51:BT:16:ARG:HH22	51:BT:82:LEU:H	1.68	0.41
51:BT:89:VAL:C	51:BT:91:ARG:HG3	2.45	0.41
53:BV:11:GLN:C	53:BV:12:TYR:CD1	2.99	0.41
53:BV:25:LEU:HG	53:BV:92:THR:HG21	2.02	0.41
53:BV:34:GLU:O	53:BV:34:GLU:CG	2.67	0.41
53:BV:40:LEU:HA	53:BV:46:VAL:H	1.86	0.41
56:BY:7:VAL:CG2	56:BY:8:LYS:HZ1	2.32	0.41
57:BZ:144:LEU:N	57:BZ:144:LEU:HD22	2.36	0.41
1:CA:106:C:O2	1:CA:379:C:H4'	2.20	0.41
1:CA:183:G:H2'	1:CA:184:G:C8	2.56	0.41
1:CA:431:A:H2'	1:CA:432:A:O4'	2.21	0.41
1:CA:660:G:C5	1:CA:661:G:N7	2.89	0.41
1:CA:1234:C:H2'	1:CA:1235:U:H6	1.83	0.41
1:CA:1256:A:C2	1:CA:1277:C:C6	3.09	0.41
1:CA:1433:A:C5	1:CA:1468:A:C6	3.09	0.41
2:CB:104:ASN:O	2:CB:104:ASN:OD1	2.38	0.41
3:CC:6:HIS:HB3	14:CN:49:HIS:HD2	1.85	0.41
3:CC:10:PHE:HD2	3:CC:11:ARG:NH1	2.19	0.41
3:CC:113:ALA:C	3:CC:115:LEU:N	2.78	0.41
4:CD:109:GLY:C	4:CD:111:ALA:N	2.79	0.41
5:CE:6:PHE:CD2	5:CE:36:ASP:HB3	2.54	0.41
5:CE:31:LEU:HD13	5:CE:31:LEU:C	2.45	0.41
6:CF:87:ARG:C	6:CF:88:VAL:HG23	2.46	0.41
7:CG:60:LYS:HD2	7:CG:63:LYS:HB3	2.02	0.41
9:CI:96:LEU:O	9:CI:99:LEU:O	2.39	0.41
10:CJ:12:ASP:OD2	10:CJ:14:LYS:HG3	2.21	0.41
11:CK:31:THR:O	11:CK:31:THR:HG23	2.21	0.41
14:CN:24:CYS:HB2	14:CN:33:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:47:LEU:C	14:CN:49:HIS:N	2.77	0.41
17:CQ:81:ARG:C	17:CQ:83:ASP:N	2.77	0.41
20:CT:84:LEU:C	20:CT:84:LEU:CD1	2.94	0.41
26:D1:90:ILE:O	26:D1:93:GLU:HB2	2.21	0.41
33:D8:37:SER:C	33:D8:39:LYS:H	2.29	0.41
35:DA:152:G:H2'	35:DA:153:C:C6	2.55	0.41
35:DA:272(B):G:O2'	35:DA:272(C):G:O4'	2.39	0.41
35:DA:348:G:O2'	35:DA:349:G:H5'	2.21	0.41
35:DA:512:G:C2'	35:DA:513:A:OP2	2.69	0.41
35:DA:607:U:O2	35:DA:621:A:N1	2.54	0.41
35:DA:845:G:HO2'	35:DA:846:C:H5	1.67	0.41
35:DA:875:G:H2'	35:DA:876:C:C6	2.56	0.41
35:DA:1227:G:O2'	35:DA:1228:G:H5'	2.20	0.41
35:DA:1349:A:N6	35:DA:1598:C:N4	2.69	0.41
35:DA:1385:G:O2'	35:DA:1396:U:C6	2.72	0.41
35:DA:1587:A:H3'	35:DA:1588:C:C6	2.55	0.41
35:DA:1614:A:N7	54:DW:93:ALA:HB2	2.35	0.41
35:DA:1688:U:O2	35:DA:1700:A:C8	2.73	0.41
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.56	0.41
35:DA:2563:U:O2	35:DA:2565:A:C8	2.74	0.41
37:DC:36:LYS:O	37:DC:37:PHE:HB2	2.20	0.41
37:DC:47:LEU:HD23	37:DC:47:LEU:N	2.34	0.41
39:DE:5:LEU:O	39:DE:51:PHE:HE2	2.04	0.41
39:DE:26:ILE:HD11	39:DE:184:VAL:HG21	2.01	0.41
39:DE:70:ALA:C	39:DE:72:VAL:H	2.28	0.41
39:DE:76:ARG:O	39:DE:77:ILE:O	2.38	0.41
39:DE:111:ARG:HA	49:DR:2:ARG:HB3	2.01	0.41
40:DF:53:THR:O	40:DF:55:GLY:N	2.54	0.41
40:DF:183:VAL:O	40:DF:187:VAL:HG23	2.19	0.41
41:DG:67:LYS:H	41:DG:67:LYS:HD3	1.86	0.41
41:DG:121:ASN:HD22	41:DG:122:PRO:N	2.19	0.41
41:DG:124:SER:HB2	41:DG:131:TYR:CD1	2.53	0.41
42:DH:64:LEU:N	42:DH:64:LEU:CD2	2.84	0.41
42:DH:94:TYR:CA	42:DH:107:VAL:HG12	2.51	0.41
43:DI:12:LEU:O	43:DI:13:GLY:O	2.38	0.41
45:DN:67:LEU:HA	45:DN:87:LEU:HB3	2.03	0.41
46:DO:120:GLU:HB2	51:DT:68:TYR:HE2	1.85	0.41
49:DR:37:THR:HG23	49:DR:40:LYS:HE2	2.02	0.41
51:DT:53:ARG:HB2	51:DT:53:ARG:NH1	2.12	0.41
51:DT:99:LEU:HD12	51:DT:99:LEU:N	2.36	0.41
52:DU:19:LYS:C	52:DU:21:ALA:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:52:ARG:O	52:DU:54:LYS:N	2.54	0.41
52:DU:68:ALA:O	52:DU:69:CYS:C	2.63	0.41
55:DX:29:TRP:CE3	55:DX:29:TRP:HA	2.56	0.41
1:AA:34:C:O2'	1:AA:35:G:H5'	2.20	0.41
1:AA:189(G):G:H4'	1:AA:189(H):G:OP2	2.21	0.41
1:AA:335:C:H2'	1:AA:336:C:C6	2.56	0.41
1:AA:400:C:O2'	1:AA:401:C:H5'	2.20	0.41
1:AA:598:U:HO2'	8:AH:94:TYR:HD1	1.64	0.41
1:AA:828:A:H5''	1:AA:859:A:C2	2.56	0.41
1:AA:872:A:C5	1:AA:874:G:C8	3.09	0.41
1:AA:877:C:O3'	8:AH:89:PRO:HD2	2.20	0.41
1:AA:959:A:C2'	1:AA:960:U:H4'	2.50	0.41
1:AA:987:G:H22	1:AA:1218:C:N4	2.19	0.41
1:AA:1054:C:H6	1:AA:1196:U:O2	2.04	0.41
1:AA:1060:C:H6	3:AC:2:GLY:HA2	1.80	0.41
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	2.21	0.41
1:AA:1170:A:H2'	1:AA:1171:G:H5'	2.03	0.41
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	2.03	0.41
1:AA:1311:G:N2	1:AA:1312:G:H1'	2.35	0.41
1:AA:1374:A:C1'	7:AG:31:MET:HE1	2.51	0.41
1:AA:1381:U:C5	1:AA:1382:C:C4	3.09	0.41
1:AA:1438:G:C6	1:AA:1439:C:C4	3.08	0.41
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.86	0.41
1:AA:1530:G:H2'	1:AA:1531:A:C8	2.55	0.41
2:AB:12:GLU:HB3	2:AB:213:LEU:HD13	2.02	0.41
2:AB:32:ILE:HG23	2:AB:32:ILE:O	2.21	0.41
2:AB:155:LEU:HG	2:AB:159:PRO:HG3	2.03	0.41
2:AB:213:LEU:C	2:AB:213:LEU:CD2	2.94	0.41
3:AC:182:ILE:HD11	3:AC:203:PHE:CD1	2.55	0.41
4:AD:108:LEU:CD2	4:AD:183:GLY:HA3	2.44	0.41
5:AE:11:ILE:HB	5:AE:12:LEU:HD13	2.02	0.41
8:AH:36:LEU:CD2	8:AH:61:VAL:HG22	2.51	0.41
8:AH:61:VAL:HG12	8:AH:63:LEU:HD13	2.03	0.41
8:AH:116:LYS:O	8:AH:119:LEU:HD21	2.21	0.41
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.84	0.41
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.21	0.41
9:AI:123:PRO:O	9:AI:124:GLN:C	2.63	0.41
10:AJ:9:ARG:HB2	10:AJ:95:GLU:HB3	2.01	0.41
10:AJ:63:PHE:HB3	14:AN:56:VAL:HG13	2.02	0.41
10:AJ:64:GLU:O	14:AN:56:VAL:HA	2.20	0.41
12:AL:43:LYS:HB3	12:AL:44:LYS:H	1.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:7:VAL:O	13:AM:7:VAL:HG12	2.20	0.41
13:AM:86:CYS:O	13:AM:89:GLY:N	2.53	0.41
14:AN:6:LEU:HD23	14:AN:6:LEU:HA	1.88	0.41
14:AN:24:CYS:CB	14:AN:27:CYS:SG	3.08	0.41
16:AP:58:TYR:CD1	16:AP:59:TRP:N	2.89	0.41
19:AS:11:VAL:CG2	19:AS:38:SER:HB2	2.50	0.41
19:AS:39:THR:CG2	19:AS:40:ILE:N	2.83	0.41
22:AV:64:G:H2'	22:AV:65:C:O4'	2.21	0.41
22:AW:11:A:H2'	22:AW:12:G:C8	2.45	0.41
24:AY:19:LYS:HB2	24:AY:19:LYS:HE2	1.72	0.41
24:AY:82:GLN:CG	24:AY:83:LEU:H	2.29	0.41
29:B4:10:VAL:HB	29:B4:11:PRO:HD2	2.03	0.41
30:B5:45:VAL:HA	30:B5:51:TYR:CE1	2.56	0.41
33:B8:8:LYS:NZ	35:BA:243:U:OP2	2.51	0.41
33:B8:13:ARG:CD	47:BP:61:ARG:HD3	2.46	0.41
33:B8:31:HIS:C	33:B8:33:ASN:N	2.74	0.41
35:BA:84:A:O5'	56:BY:9:LYS:HE3	2.21	0.41
35:BA:323:G:H2'	40:BF:169:ASN:OD1	2.21	0.41
35:BA:541:C:H2'	35:BA:542:C:H6	1.86	0.41
35:BA:574:C:N3	39:BE:145:LYS:HE3	2.36	0.41
35:BA:631:A:O2'	35:BA:632:A:H5'	2.21	0.41
35:BA:676:A:H2	35:BA:802:A:N6	2.08	0.41
35:BA:746:A:HO2'	35:BA:2611:U:HO2'	1.68	0.41
35:BA:755:C:H2'	35:BA:756:C:H6	1.86	0.41
35:BA:875:G:H2'	35:BA:876:C:C6	2.56	0.41
35:BA:889:C:O2	35:BA:889:C:O4'	2.38	0.41
35:BA:991:C:O2'	35:BA:992:C:H5'	2.21	0.41
35:BA:999:U:O2'	35:BA:1000:A:H5'	2.21	0.41
35:BA:1040:C:N4	35:BA:1115:G:H1	2.14	0.41
35:BA:1465:G:H5'	35:BA:1528:A:H1'	2.02	0.41
35:BA:1471:A:N3	35:BA:1471:A:H2'	2.34	0.41
35:BA:1763:G:H2'	35:BA:1764:G:H5'	2.03	0.41
35:BA:1991:U:H2'	35:BA:1992:G:C5'	2.51	0.41
35:BA:2021:C:H4'	35:BA:2022:U:OP2	2.21	0.41
35:BA:2314:C:H2'	35:BA:2315:G:C8	2.56	0.41
35:BA:2515:C:O2'	35:BA:2516:G:H5'	2.21	0.41
35:BA:2679:A:O2'	35:BA:2680:C:H5'	2.21	0.41
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.21	0.41
35:BA:2710:C:H2'	35:BA:2711:A:C8	2.55	0.41
37:BC:46:LYS:CE	37:BC:172:HIS:HA	2.50	0.41
38:BD:130:ALA:HB2	38:BD:192:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:133:LEU:HD13	38:BD:173:VAL:CG1	2.49	0.41
38:BD:245:PRO:O	38:BD:245:PRO:HG2	2.20	0.41
39:BE:12:THR:CG2	39:BE:13:ARG:N	2.82	0.41
39:BE:111:ARG:CD	49:BR:2:ARG:NH2	2.84	0.41
40:BF:109:GLY:O	40:BF:110:LEU:C	2.64	0.41
41:BG:85:GLY:O	41:BG:87:PRO:CD	2.69	0.41
41:BG:114:ILE:HG22	41:BG:116:ASP:H	1.85	0.41
42:BH:10:PRO:O	42:BH:10:PRO:CD	2.67	0.41
42:BH:23:ARG:HD2	42:BH:25:LYS:NZ	2.35	0.41
42:BH:44:VAL:O	42:BH:46:GLU:N	2.54	0.41
42:BH:64:LEU:N	42:BH:64:LEU:CD2	2.84	0.41
42:BH:123:PHE:CA	42:BH:133:VAL:HG22	2.45	0.41
42:BH:150:ALA:C	42:BH:152:ARG:N	2.79	0.41
43:BI:75:LEU:HD12	43:BI:75:LEU:HA	1.75	0.41
43:BI:83:ALA:HB3	43:BI:144:VAL:HG12	2.02	0.41
44:BJ:116:UNK:O	44:BJ:117:UNK:C	2.68	0.41
44:BJ:123:UNK:O	44:BJ:124:UNK:O	2.38	0.41
44:BJ:124:UNK:O	44:BJ:125:UNK:O	2.39	0.41
45:BN:67:LEU:HD12	45:BN:67:LEU:N	2.27	0.41
46:BO:10:VAL:CG2	46:BO:16:ALA:O	2.69	0.41
46:BO:26:LYS:HB2	46:BO:30:ALA:HB2	2.02	0.41
46:BO:107:ARG:NH1	51:BT:35:LYS:HB2	2.36	0.41
47:BP:10:PRO:HD2	47:BP:11:GLY:N	2.35	0.41
47:BP:96:THR:HA	47:BP:97:PRO:HD3	1.97	0.41
47:BP:115:LEU:N	47:BP:115:LEU:CD2	2.83	0.41
48:BQ:26:TYR:C	48:BQ:26:TYR:CD1	2.99	0.41
48:BQ:43:THR:CB	48:BQ:45:GLN:NE2	2.84	0.41
49:BR:25:ALA:O	49:BR:26:LYS:C	2.64	0.41
49:BR:87:TYR:HD1	49:BR:90:ARG:HE	1.69	0.41
50:BS:28:VAL:CG1	50:BS:29:PHE:N	2.84	0.41
51:BT:70:VAL:HG12	51:BT:71:GLY:N	2.36	0.41
51:BT:125:ARG:C	51:BT:127:ALA:N	2.76	0.41
52:BU:92:ARG:HD2	53:BV:11:GLN:NE2	2.35	0.41
53:BV:61:VAL:O	53:BV:61:VAL:CG2	2.69	0.41
54:BW:40:ASN:C	54:BW:41:LYS:HG2	2.46	0.41
56:BY:32:PRO:C	56:BY:35:TYR:H	2.28	0.41
56:BY:62:GLU:OE1	56:BY:62:GLU:N	2.54	0.41
57:BZ:6:LYS:HB3	57:BZ:8:TYR:HE1	1.86	0.41
57:BZ:61:LEU:C	57:BZ:63:ASP:N	2.79	0.41
57:BZ:61:LEU:O	57:BZ:63:ASP:N	2.54	0.41
1:CA:16:A:C2'	1:CA:17:U:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:21:G:H2'	1:CA:22:G:C8	2.56	0.41
1:CA:39:G:C2	1:CA:40:C:C6	3.08	0.41
1:CA:107:G:H2'	1:CA:108:G:H5'	2.02	0.41
1:CA:172:A:O2'	1:CA:173:U:H5''	2.20	0.41
1:CA:198:G:H1	1:CA:219:C:H42	1.69	0.41
1:CA:286:G:O2'	1:CA:287:U:H5'	2.20	0.41
1:CA:299:G:H2'	1:CA:300:A:C8	2.56	0.41
1:CA:426:G:OP1	4:CD:38:TYR:OH	2.30	0.41
1:CA:594:G:H2'	1:CA:595:G:O4'	2.21	0.41
1:CA:614:A:C2	1:CA:627:G:C2	3.09	0.41
1:CA:634:C:H2'	1:CA:635:G:H8	1.86	0.41
1:CA:660:G:H2'	1:CA:661:G:O4'	2.21	0.41
1:CA:665:A:H2'	1:CA:725:G:N2	2.36	0.41
1:CA:893:C:H2'	1:CA:894:G:H8	1.85	0.41
3:CC:13:GLY:HA3	14:CN:57:ARG:CD	2.50	0.41
3:CC:83:ARG:HA	3:CC:86:VAL:HG22	2.02	0.41
3:CC:108:ASN:OD1	3:CC:110:ASN:HB2	2.21	0.41
4:CD:3:ARG:CZ	4:CD:69:GLY:HA3	2.51	0.41
4:CD:6:GLY:O	4:CD:8:VAL:HG13	2.21	0.41
4:CD:110:PHE:HE2	4:CD:148:VAL:HG23	1.86	0.41
4:CD:170:VAL:HG12	4:CD:171:GLY:N	2.35	0.41
5:CE:148:VAL:CG2	8:CH:107:LEU:HD13	2.41	0.41
7:CG:99:LEU:O	7:CG:100:ALA:C	2.63	0.41
8:CH:68:ARG:HG2	8:CH:69:ARG:N	2.36	0.41
8:CH:109:ILE:HD11	8:CH:120:THR:CB	2.51	0.41
9:CI:14:VAL:O	9:CI:65:VAL:HA	2.21	0.41
9:CI:100:GLY:C	9:CI:102:LEU:N	2.78	0.41
9:CI:113:LYS:H	9:CI:119:ALA:HA	1.86	0.41
9:CI:126:SER:O	9:CI:127:LYS:CB	2.66	0.41
10:CJ:16:LEU:CD2	10:CJ:94:VAL:HG22	2.51	0.41
10:CJ:38:ILE:HG23	10:CJ:38:ILE:O	2.20	0.41
10:CJ:50:ILE:HD11	14:CN:41:ARG:HD3	2.02	0.41
11:CK:32:ILE:O	11:CK:40:ILE:HG12	2.20	0.41
12:CL:25:LYS:HD2	12:CL:30:ARG:HH12	1.86	0.41
12:CL:33:VAL:H	12:CL:55:VAL:CG1	2.32	0.41
12:CL:86:ARG:HG3	12:CL:87:VAL:N	2.36	0.41
13:CM:102:ARG:HH11	13:CM:102:ARG:HG3	1.84	0.41
16:CP:5:ARG:N	16:CP:20:VAL:O	2.49	0.41
17:CQ:3:LYS:O	17:CQ:5:VAL:HG23	2.20	0.41
17:CQ:39:SER:O	17:CQ:40:LYS:HB2	2.21	0.41
19:CS:6:LYS:CD	19:CS:7:LYS:HE3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:11:VAL:HG13	19:CS:12:ASP:N	2.36	0.41
19:CS:36:ARG:HH12	19:CS:77:THR:CG2	2.34	0.41
22:CV:4:G:C5	22:CV:70:G:C2	3.08	0.41
22:CV:14:A:C5	22:CV:22:G:C6	3.09	0.41
22:CV:18:G:C6	22:CV:57:A:N6	2.89	0.41
22:CV:19:G:C2	22:CV:57:A:C2	3.09	0.41
22:CV:55:U:C6	22:CV:55:U:C3'	3.03	0.41
22:CW:33:U:H2'	22:CW:35:A:OP2	2.21	0.41
25:D0:19:LYS:C	25:D0:20:ARG:HD2	2.44	0.41
27:D2:32:LEU:O	27:D2:35:LEU:HB2	2.21	0.41
28:D3:43:ILE:N	28:D3:43:ILE:CD1	2.83	0.41
29:D4:3:GLU:HA	29:D4:6:HIS:HE1	1.85	0.41
29:D4:3:GLU:CD	29:D4:3:GLU:N	2.79	0.41
29:D4:13:ARG:C	29:D4:14:ILE:HD12	2.46	0.41
29:D4:52:THR:O	29:D4:53:GLU:HB2	2.20	0.41
31:D6:12:GLU:OE1	31:D6:52:VAL:O	2.39	0.41
33:D8:32:LEU:C	33:D8:36:LYS:HZ3	2.28	0.41
34:D9:2:LYS:HB3	34:D9:3:VAL:H	1.60	0.41
34:D9:7:VAL:C	34:D9:8:LYS:HG3	2.46	0.41
35:DA:142:A:N6	35:DA:1596:A:H5'	2.36	0.41
35:DA:146:G:H2'	35:DA:147:U:H5'	2.02	0.41
35:DA:245:G:N3	35:DA:246:C:C6	2.89	0.41
35:DA:272(E):G:N2	35:DA:364:C:C2	2.89	0.41
35:DA:298:G:OP1	56:DY:85:VAL:HG22	2.21	0.41
35:DA:587:C:H2'	47:DP:33:ARG:CZ	2.50	0.41
35:DA:674:G:C1'	40:DF:74:ARG:HD3	2.50	0.41
35:DA:867:C:O2	35:DA:868:U:O4'	2.38	0.41
35:DA:898:C:O2'	35:DA:899:A:H5'	2.21	0.41
35:DA:1047:G:OP2	35:DA:1047:G:H4'	2.20	0.41
35:DA:1111:A:O2'	35:DA:1112:G:C4'	2.69	0.41
35:DA:1141:U:OP2	45:DN:63:THR:OG1	2.32	0.41
35:DA:1281:G:H2'	35:DA:1282:U:C5'	2.51	0.41
35:DA:1357:U:H2'	35:DA:1358:G:O4'	2.21	0.41
35:DA:1417:C:H2'	35:DA:1418:G:H5'	2.03	0.41
35:DA:1501:C:O4'	38:DD:100:GLY:HA2	2.21	0.41
35:DA:1695:G:H3'	35:DA:1695:G:N3	2.36	0.41
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.35	0.41
35:DA:1934:C:O2'	35:DA:1935:G:H5'	2.20	0.41
35:DA:1952:A:C5	46:DO:22:ILE:HD12	2.55	0.41
35:DA:1983:C:H4'	35:DA:2606:C:H4'	2.02	0.41
35:DA:2041:U:H2'	35:DA:2042:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2320:A:H1'	35:DA:2321:G:C5	2.53	0.41
35:DA:2359:C:O2'	35:DA:2360:A:H5'	2.20	0.41
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.50	0.41
35:DA:2582:G:C2	35:DA:2583:G:C8	3.09	0.41
35:DA:2764:A:N6	35:DA:2766:G:C2	2.89	0.41
35:DA:2837:G:H2'	35:DA:2838:G:H8	1.86	0.41
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.21	0.41
37:DC:74:VAL:CB	37:DC:91:ALA:HB2	2.45	0.41
37:DC:213:TYR:CB	37:DC:219:GLY:H	2.34	0.41
38:DD:71:ASP:OD1	38:DD:103:ARG:NH2	2.54	0.41
38:DD:206:LEU:HD23	38:DD:206:LEU:HA	1.89	0.41
38:DD:211:ARG:NH1	38:DD:211:ARG:CG	2.82	0.41
39:DE:143:ASN:HD22	39:DE:147:PRO:HD3	1.86	0.41
40:DF:8:GLN:CG	40:DF:126:VAL:HG12	2.51	0.41
40:DF:9:ILE:HG12	40:DF:13:SER:O	2.21	0.41
40:DF:20:LEU:O	40:DF:21:ALA:O	2.39	0.41
41:DG:59:GLU:O	41:DG:62:LEU:HB2	2.21	0.41
41:DG:88:ILE:HG22	41:DG:89:GLY:H	1.85	0.41
41:DG:95:ARG:O	41:DG:96:ARG:C	2.63	0.41
42:DH:98:LEU:HD12	42:DH:102:ALA:O	2.21	0.41
43:DI:76:THR:CG2	43:DI:141:LYS:HE2	2.50	0.41
43:DI:87:LYS:O	43:DI:88:ILE:O	2.39	0.41
43:DI:97:ILE:HD13	43:DI:140:LEU:CD1	2.51	0.41
44:DJ:14:UNK:O	44:DJ:65:UNK:O	2.39	0.41
45:DN:57:ALA:C	45:DN:58:ASP:O	2.61	0.41
45:DN:96:GLU:CD	45:DN:96:GLU:N	2.72	0.41
46:DO:86:ILE:HG22	46:DO:94:ARG:HD3	2.02	0.41
46:DO:87:ILE:CG2	46:DO:88:ASN:N	2.81	0.41
47:DP:56:SER:C	47:DP:57:THR:HG22	2.46	0.41
47:DP:56:SER:C	47:DP:57:THR:O	2.63	0.41
48:DQ:109:VAL:HG22	48:DQ:110:THR:N	2.36	0.41
48:DQ:109:VAL:C	48:DQ:110:THR:O	2.63	0.41
49:DR:66:VAL:HG12	49:DR:66:VAL:O	2.20	0.41
49:DR:85:PRO:C	49:DR:87:TYR:N	2.78	0.41
49:DR:87:TYR:HD1	49:DR:90:ARG:HE	1.68	0.41
49:DR:100:LEU:HD12	49:DR:100:LEU:N	2.36	0.41
51:DT:24:PRO:HA	51:DT:49:VAL:CG1	2.44	0.41
51:DT:85:LYS:NZ	51:DT:85:LYS:CA	2.83	0.41
51:DT:99:LEU:N	51:DT:99:LEU:CD1	2.83	0.41
52:DU:83:LEU:HA	52:DU:88:ILE:HG12	2.02	0.41
53:DV:11:GLN:C	53:DV:12:TYR:CD1	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:25:LEU:HG	53:DV:92:THR:HG21	2.03	0.41
54:DW:111:HIS:C	54:DW:113:LYS:N	2.79	0.41
55:DX:23:GLU:O	55:DX:25:LYS:N	2.51	0.41
56:DY:22:GLY:O	56:DY:23:ARG:HG2	2.21	0.41
56:DY:42:VAL:HG12	56:DY:65:ALA:HB3	2.02	0.41
57:DZ:97:GLU:O	57:DZ:98:MET:HB3	2.21	0.41
57:DZ:103:ARG:HB2	57:DZ:138:GLU:HB3	2.02	0.41
57:DZ:151:HIS:CB	57:DZ:170:THR:HA	2.26	0.41
1:AA:5:U:H2'	1:AA:6:G:C2	2.55	0.41
1:AA:16:A:C2'	1:AA:17:U:H5'	2.51	0.41
1:AA:176:C:O2'	1:AA:177:C:H5'	2.21	0.41
1:AA:409:G:OP1	4:AD:24:GLU:HB3	2.21	0.41
1:AA:634:C:H2'	1:AA:635:G:H8	1.85	0.41
1:AA:1206:G:O4'	3:AC:194:GLY:HA2	2.21	0.41
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.56	0.41
2:AB:53:ARG:NE	2:AB:199:TYR:CE2	2.89	0.41
5:AE:6:PHE:HB2	5:AE:34:VAL:CG2	2.51	0.41
5:AE:70:PRO:HB3	5:AE:144:THR:CG2	2.50	0.41
6:AF:99:ALA:HB3	18:AR:29:PHE:CE1	2.55	0.41
8:AH:5:PRO:HB2	8:AH:32:LYS:CE	2.46	0.41
8:AH:29:SER:HB3	8:AH:32:LYS:HD2	2.02	0.41
9:AI:37:PHE:CE1	9:AI:74:ILE:HG12	2.56	0.41
11:AK:34:ASP:OD1	11:AK:36:ASP:N	2.48	0.41
12:AL:107:VAL:CG2	12:AL:117:TYR:HB3	2.51	0.41
15:AO:50:HIS:O	15:AO:53:HIS:N	2.51	0.41
20:AT:10:LEU:CD2	20:AT:12:ALA:HB2	2.41	0.41
24:AY:84:LYS:HD2	24:AY:84:LYS:HA	1.94	0.41
26:B1:14:VAL:HG11	26:B1:39:LYS:HE2	2.03	0.41
26:B1:25:LYS:HG3	35:BA:388:G:OP1	2.21	0.41
35:BA:89:G:O6	35:BA:90:U:H5	2.04	0.41
35:BA:328:U:O2'	56:BY:71:LYS:HD3	2.20	0.41
35:BA:782:A:H5'	35:BA:783:A:C2	2.56	0.41
35:BA:1111:A:O2'	35:BA:1112:G:C4'	2.69	0.41
35:BA:1833:U:C2	35:BA:1834:U:C5	3.09	0.41
35:BA:1858:G:H2'	35:BA:1883:G:H22	1.85	0.41
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.21	0.41
35:BA:2178:C:C3'	35:BA:2179:C:H5''	2.40	0.41
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.55	0.41
35:BA:2563:U:O2	35:BA:2565:A:C8	2.74	0.41
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.51	0.41
35:BA:2776:A:C6	35:BA:2778:A:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:52:A:O2'	36:BB:53:A:C8	2.73	0.41
36:BB:87:G:N2	36:BB:91:C:N3	2.68	0.41
38:BD:54:ARG:HH11	38:BD:54:ARG:HG3	1.85	0.41
39:BE:35:GLN:HG2	39:BE:36:ARG:N	2.36	0.41
39:BE:199:ARG:HB2	39:BE:199:ARG:HH11	1.86	0.41
40:BF:64:ILE:HG23	40:BF:65:TRP:N	2.36	0.41
41:BG:4:ASP:CB	41:BG:8:LYS:HE2	2.50	0.41
41:BG:109:VAL:O	41:BG:113:ARG:N	2.54	0.41
41:BG:139:LEU:HA	41:BG:144:ILE:CG2	2.51	0.41
42:BH:85:LYS:CE	42:BH:133:VAL:HB	2.49	0.41
47:BP:30:THR:O	47:BP:31:ALA:C	2.64	0.41
48:BQ:42:ILE:HG13	48:BQ:97:VAL:HG21	2.03	0.41
49:BR:4:LEU:O	49:BR:5:LYS:CG	2.69	0.41
50:BS:34:HIS:HB3	50:BS:35:ILE:H	1.66	0.41
51:BT:25:GLY:O	51:BT:26:ASP:HB2	2.21	0.41
51:BT:28:VAL:CB	51:BT:46:GLU:HA	2.51	0.41
52:BU:88:ILE:HD12	52:BU:109:LEU:HD22	2.01	0.41
53:BV:6:LYS:HE2	53:BV:37:VAL:CG1	2.41	0.41
56:BY:4:LYS:NZ	56:BY:5:MET:CG	2.84	0.41
57:BZ:178:GLU:N	57:BZ:178:GLU:OE1	2.54	0.41
57:BZ:185:GLU:HG3	57:BZ:186:GLU:N	2.24	0.41
1:CA:66:G:H4'	1:CA:173:U:C4	2.56	0.41
1:CA:154:C:O2'	1:CA:155:C:H5'	2.21	0.41
1:CA:184:G:C4'	1:CA:224:C:H4'	2.51	0.41
1:CA:352:C:OP1	1:CA:352:C:H6	2.04	0.41
1:CA:364:A:N6	12:CL:25:LYS:HE2	2.36	0.41
1:CA:453:A:O2'	1:CA:454:C:H5'	2.21	0.41
1:CA:546:G:P	4:CD:72:GLU:HB3	2.61	0.41
1:CA:590:C:H2'	1:CA:591:U:H6	1.76	0.41
1:CA:605:U:H2'	1:CA:606:G:C8	2.56	0.41
1:CA:728:A:C6	15:CO:54:ARG:HD2	2.55	0.41
1:CA:801:U:C2	1:CA:802:A:C8	3.09	0.41
1:CA:828:A:C2	1:CA:829:G:H1'	2.56	0.41
1:CA:893:C:H2'	1:CA:894:G:C8	2.56	0.41
1:CA:1016:A:C2'	1:CA:1017:G:H5'	2.50	0.41
1:CA:1066:C:H3'	1:CA:1067:A:H8	1.79	0.41
1:CA:1279:A:C2	10:CJ:43:ARG:NH1	2.87	0.41
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.21	0.41
2:CB:167:PRO:O	2:CB:169:LYS:N	2.52	0.41
3:CC:195:VAL:C	3:CC:196:LEU:HD22	2.46	0.41
4:CD:30:LYS:O	4:CD:32:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:52:PRO:HG2	5:CE:53:LEU:H	1.85	0.41
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.89	0.41
8:CH:112:LEU:HA	8:CH:134:ILE:CG1	2.42	0.41
10:CJ:5:ARG:HB3	10:CJ:99:LYS:CB	2.35	0.41
11:CK:77:MET:C	11:CK:78:GLN:CD	2.88	0.41
12:CL:79:VAL:HG12	12:CL:80:VAL:N	2.35	0.41
16:CP:27:LYS:HG3	16:CP:30:GLY:HA3	2.02	0.41
16:CP:58:TYR:CD1	16:CP:59:TRP:N	2.88	0.41
19:CS:8:GLY:O	19:CS:10:PHE:HD1	2.04	0.41
26:D1:58:ILE:HD11	26:D1:60:PHE:CE2	2.56	0.41
27:D2:16:LEU:HD23	27:D2:16:LEU:HA	1.86	0.41
27:D2:43:GLN:HB3	27:D2:44:LEU:H	1.59	0.41
28:D3:8:LEU:HD13	28:D3:31:LEU:HD23	2.03	0.41
32:D7:45:ALA:O	32:D7:46:VAL:HG23	2.20	0.41
33:D8:25:MET:SD	47:DP:64:LYS:HD2	2.61	0.41
35:DA:194:G:H2'	35:DA:195:A:O4'	2.20	0.41
35:DA:221:A:N6	35:DA:265:A:C8	2.84	0.41
35:DA:364:C:C2'	35:DA:365:C:C5'	2.96	0.41
35:DA:500:G:N2	35:DA:502:A:H3'	2.35	0.41
35:DA:587:C:H2'	47:DP:33:ARG:HH21	1.83	0.41
35:DA:848:G:H2'	35:DA:849:A:H8	1.75	0.41
35:DA:860:U:O2'	35:DA:861:A:H5'	2.21	0.41
35:DA:912:C:H2'	35:DA:913:U:C6	2.56	0.41
35:DA:1636:C:H2'	35:DA:1637:A:C8	2.55	0.41
35:DA:1914:C:C3'	35:DA:1915:U:C5'	2.98	0.41
35:DA:2607:G:H2'	35:DA:2608:G:O4'	2.21	0.41
39:DE:12:THR:HG22	39:DE:13:ARG:H	1.84	0.41
39:DE:37:ARG:HA	39:DE:42:ASP:OD2	2.21	0.41
40:DF:83:PHE:O	40:DF:85:GLY:N	2.54	0.41
41:DG:131:TYR:O	41:DG:158:ALA:HA	2.21	0.41
42:DH:154:PRO:C	42:DH:156:ALA:H	2.25	0.41
43:DI:125:GLU:OE2	43:DI:141:LYS:HG2	2.21	0.41
44:DJ:100:UNK:HA	44:DJ:103:UNK:CB	2.51	0.41
45:DN:57:ALA:HB2	45:DN:123:TYR:O	2.21	0.41
47:DP:10:PRO:HD2	47:DP:11:GLY:N	2.36	0.41
47:DP:126:VAL:HG22	47:DP:145:PRO:CG	2.51	0.41
48:DQ:32:TYR:CE2	48:DQ:111:GLU:HG3	2.56	0.41
52:DU:31:SER:O	52:DU:32:PHE:C	2.64	0.41
52:DU:62:ILE:O	52:DU:63:VAL:C	2.60	0.41
54:DW:22:ASP:HA	54:DW:25:ARG:HH12	1.86	0.41
54:DW:61:ASN:HD22	54:DW:61:ASN:HA	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:34:ASN:OD1	57:DZ:34:ASN:C	2.64	0.41
57:DZ:64:GLY:O	57:DZ:65:GLN:C	2.64	0.41
1:AA:261:U:C5	20:AT:79:ARG:NE	2.89	0.40
1:AA:333:G:H4'	20:AT:16:HIS:NE2	2.36	0.40
1:AA:427:U:C4	1:AA:428:G:C6	3.09	0.40
1:AA:697:U:C2'	1:AA:698:G:H5'	2.50	0.40
1:AA:784:C:H4'	35:BA:1837:C:OP1	2.20	0.40
1:AA:937:A:C2	1:AA:1379:G:C6	3.08	0.40
1:AA:1259:C:H1'	1:AA:1283:G:H21	1.85	0.40
1:AA:1293:G:O2'	1:AA:1294:G:O5'	2.39	0.40
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.85	0.40
3:AC:54:ARG:HG3	3:AC:54:ARG:HH11	1.86	0.40
8:AH:37:ARG:C	8:AH:39:LEU:N	2.78	0.40
8:AH:137:VAL:HG12	8:AH:138:TRP:N	2.36	0.40
9:AI:38:GLN:HG2	9:AI:39:GLY:N	2.37	0.40
9:AI:92:TYR:HB3	9:AI:95:LYS:HD2	2.03	0.40
10:AJ:35:SER:O	10:AJ:36:GLY:C	2.63	0.40
11:AK:24:SER:C	11:AK:26:ASN:H	2.29	0.40
12:AL:120:LYS:H	12:AL:120:LYS:HG2	1.60	0.40
13:AM:7:VAL:N	13:AM:8:GLU:OE1	2.52	0.40
13:AM:23:TYR:HB2	13:AM:67:GLU:CD	2.46	0.40
13:AM:79:LYS:CG	13:AM:82:MET:HE3	2.51	0.40
17:AQ:5:VAL:HA	17:AQ:59:ILE:O	2.21	0.40
17:AQ:11:VAL:O	17:AQ:12:SER:CB	2.69	0.40
18:AR:71:LYS:O	18:AR:72:ARG:C	2.63	0.40
18:AR:74:ARG:NH2	18:AR:81:PHE:HA	2.35	0.40
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.35	0.40
24:AY:29:PRO:HG2	24:AY:29:PRO:O	2.21	0.40
24:AY:31:THR:HA	24:AY:32:PRO:HD3	1.85	0.40
24:AY:43:TRP:O	24:AY:52:TYR:HD2	2.04	0.40
24:AY:83:LEU:HD23	24:AY:83:LEU:HA	1.55	0.40
27:B2:43:GLN:O	27:B2:45:SER:N	2.53	0.40
30:B5:3:LYS:HG3	35:BA:747:U:OP1	2.20	0.40
30:B5:45:VAL:HA	30:B5:51:TYR:CD1	2.55	0.40
35:BA:258:G:H2'	35:BA:259:G:H8	1.86	0.40
35:BA:292:C:O2'	35:BA:293:U:H5'	2.21	0.40
35:BA:971:C:O2'	35:BA:972:G:H5'	2.20	0.40
35:BA:991:C:H2'	35:BA:992:C:H6	1.87	0.40
35:BA:1053:C:O2	35:BA:1106:A:C2	2.74	0.40
35:BA:1956:U:H2'	35:BA:1957:C:H5'	2.03	0.40
35:BA:2033:A:HO2'	35:BA:2034:U:P	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:131:LEU:HA	38:BD:190:TYR:CE2	2.56	0.40
39:BE:2:LYS:HD2	39:BE:95:ILE:HG22	2.03	0.40
40:BF:1:MET:O	40:BF:3:GLU:N	2.52	0.40
42:BH:70:THR:O	42:BH:71:LEU:C	2.64	0.40
45:BN:7:LYS:N	45:BN:7:LYS:HD2	2.37	0.40
45:BN:128:HIS:O	45:BN:130:HIS:N	2.49	0.40
50:BS:44:LYS:C	50:BS:46:VAL:H	2.28	0.40
50:BS:90:GLY:C	50:BS:92:TYR:N	2.78	0.40
51:BT:35:LYS:HG3	51:BT:36:GLU:H	1.86	0.40
51:BT:70:VAL:HG12	51:BT:71:GLY:H	1.86	0.40
56:BY:28:LYS:N	56:BY:28:LYS:CE	2.84	0.40
56:BY:97:ARG:HH12	56:BY:98:VAL:HB	1.86	0.40
1:CA:226:G:C2	1:CA:227:G:C8	3.09	0.40
1:CA:402:G:O2'	1:CA:403:C:H5'	2.21	0.40
1:CA:660:G:H1	1:CA:745:C:H42	1.68	0.40
1:CA:722:A:H2'	1:CA:724:G:C8	2.56	0.40
1:CA:976:G:H22	1:CA:1362:C:H2'	1.81	0.40
1:CA:1375:A:H2'	1:CA:1376:U:C6	2.56	0.40
2:CB:10:LEU:HA	2:CB:13:ALA:HB2	2.03	0.40
2:CB:112:VAL:C	2:CB:114:ARG:N	2.77	0.40
3:CC:47:LEU:CD2	3:CC:68:VAL:HG11	2.51	0.40
3:CC:196:LEU:HB3	3:CC:197:GLY:H	1.63	0.40
4:CD:62:GLN:O	4:CD:63:LYS:C	2.63	0.40
4:CD:107:ARG:HA	4:CD:107:ARG:HD2	1.92	0.40
4:CD:125:HIS:HB2	4:CD:126:ILE:HD12	2.02	0.40
5:CE:118:ILE:HG13	5:CE:119:LEU:N	2.36	0.40
8:CH:69:ARG:NE	8:CH:75:ARG:O	2.54	0.40
8:CH:112:LEU:HD12	8:CH:114:THR:HG23	2.03	0.40
9:CI:31:GLN:OE1	9:CI:32:ASP:N	2.47	0.40
13:CM:35:GLU:O	13:CM:37:THR:N	2.55	0.40
16:CP:22:THR:CA	16:CP:33:ILE:HG12	2.47	0.40
17:CQ:96:GLU:C	17:CQ:98:LEU:N	2.77	0.40
19:CS:53:ASN:HB2	19:CS:77:THR:HG22	2.02	0.40
22:CV:15:G:N3	22:CV:59:A:C2	2.89	0.40
26:D1:77:ALA:O	26:D1:80:LEU:HG	2.21	0.40
29:D4:35:VAL:CG1	29:D4:36:CYS:H	2.34	0.40
30:D5:45:VAL:HA	30:D5:51:TYR:CE1	2.56	0.40
30:D5:55:ARG:C	30:D5:56:LYS:HG2	2.45	0.40
31:D6:11:LEU:HD22	31:D6:12:GLU:N	2.32	0.40
35:DA:510:C:O2'	35:DA:511:U:H5'	2.21	0.40
35:DA:662:G:OP1	47:DP:18:ARG:NH1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:723:G:H2'	35:DA:724:U:C6	2.56	0.40
35:DA:991:C:H2'	35:DA:992:C:C6	2.55	0.40
35:DA:1215:G:C2'	35:DA:1216:G:H5'	2.51	0.40
35:DA:1332:G:H4'	35:DA:1333:C:OP2	2.21	0.40
35:DA:1363:C:H2'	35:DA:1364:G:H8	1.86	0.40
35:DA:1417:C:C2'	35:DA:1418:G:H5'	2.51	0.40
35:DA:1750:G:O2'	35:DA:1751:C:H5'	2.22	0.40
35:DA:1902:C:H5'	38:DD:246:PRO:HD3	2.02	0.40
35:DA:2320:A:H4'	35:DA:2321:G:N7	2.37	0.40
35:DA:2469:A:H3'	35:DA:2470:G:O4'	2.20	0.40
35:DA:2572:A:C8	39:DE:144:ARG:HB3	2.56	0.40
35:DA:2684:U:O5'	35:DA:2684:U:H6	2.03	0.40
35:DA:2785:C:O2'	35:DA:2786:U:H5'	2.21	0.40
37:DC:75:LEU:O	37:DC:77:ILE:N	2.54	0.40
38:DD:13:ARG:C	38:DD:15:PHE:N	2.79	0.40
39:DE:52:LEU:O	39:DE:53:PRO:O	2.40	0.40
40:DF:1:MET:O	40:DF:3:GLU:N	2.54	0.40
41:DG:12:TYR:CD2	41:DG:16:ARG:HD2	2.55	0.40
41:DG:15:VAL:HG11	41:DG:175:LEU:O	2.21	0.40
41:DG:34:LEU:CD2	41:DG:161:THR:HB	2.49	0.40
41:DG:124:SER:HB2	41:DG:131:TYR:HE1	1.70	0.40
41:DG:126:ASP:C	41:DG:128:ARG:N	2.79	0.40
42:DH:44:VAL:O	42:DH:46:GLU:N	2.54	0.40
45:DN:7:LYS:N	45:DN:7:LYS:HD2	2.36	0.40
47:DP:16:ARG:HG3	47:DP:17:LYS:N	2.34	0.40
47:DP:18:ARG:NH1	47:DP:18:ARG:O	2.54	0.40
47:DP:122:PRO:CG	47:DP:141:ALA:HB1	2.46	0.40
49:DR:49:ASP:C	49:DR:51:LEU:H	2.29	0.40
51:DT:5:ALA:C	51:DT:7:ILE:N	2.77	0.40
51:DT:118:ARG:O	51:DT:119:LYS:C	2.63	0.40
56:DY:32:PRO:C	56:DY:35:TYR:H	2.29	0.40
56:DY:68:HIS:ND1	56:DY:70:SER:HB3	2.35	0.40
1:AA:600:C:H4'	8:AH:128:GLY:O	2.21	0.40
1:AA:624:C:C4'	16:AP:11:SER:OG	2.70	0.40
1:AA:633:G:H2'	1:AA:634:C:O4'	2.21	0.40
1:AA:738:C:H2'	1:AA:739:C:H6	1.83	0.40
1:AA:976:G:H22	1:AA:1362:C:H2'	1.85	0.40
1:AA:1375:A:C2	1:AA:1376:U:C2	3.09	0.40
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.55	0.40
2:AB:59:GLU:OE2	2:AB:221:LEU:HB3	2.21	0.40
2:AB:79:ASP:C	2:AB:81:VAL:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:130:ARG:HH21	2:AB:138:LEU:HD11	1.86	0.40
2:AB:175:ARG:O	2:AB:178:ARG:N	2.54	0.40
2:AB:239:VAL:O	2:AB:240:GLN:CB	2.70	0.40
3:AC:43:LEU:CD1	3:AC:55:VAL:HG11	2.52	0.40
4:AD:101:LEU:C	4:AD:103:ASN:N	2.79	0.40
8:AH:37:ARG:HH21	8:AH:38:ILE:CD1	2.34	0.40
10:AJ:74:ILE:HG22	10:AJ:75:ILE:N	2.35	0.40
12:AL:4:ILE:HD11	17:AQ:32:TYR:HB3	2.03	0.40
13:AM:35:GLU:O	13:AM:37:THR:N	2.54	0.40
13:AM:79:LYS:C	13:AM:82:MET:HB3	2.45	0.40
13:AM:99:ARG:O	13:AM:100:GLY:C	2.64	0.40
15:AO:67:LEU:HD21	15:AO:87:ILE:HD12	2.02	0.40
17:AQ:33:GLY:O	17:AQ:34:LYS:O	2.40	0.40
17:AQ:93:GLN:C	17:AQ:95:TYR:N	2.79	0.40
18:AR:51:LEU:CD2	18:AR:52:PRO:HD2	2.51	0.40
20:AT:81:LYS:C	20:AT:83:ARG:N	2.77	0.40
20:AT:91:LEU:C	20:AT:93:GLU:N	2.78	0.40
21:AU:12:LYS:HB3	21:AU:22:ARG:NH1	2.37	0.40
24:AY:39:LYS:O	24:AY:40:ARG:C	2.58	0.40
24:AY:91:ASN:HB2	24:AY:93:LYS:HE2	2.02	0.40
26:B1:45:ASN:C	26:B1:45:ASN:HD22	2.28	0.40
26:B1:52:ARG:HE	26:B1:57:GLU:HB2	1.86	0.40
30:B5:55:ARG:C	30:B5:56:LYS:HG2	2.44	0.40
34:B9:30:PRO:HB2	35:BA:2527:C:H5'	2.03	0.40
35:BA:118:A:OP2	35:BA:119:A:H2'	2.21	0.40
35:BA:271(Q):G:O2'	35:BA:271(R):G:H8	2.05	0.40
35:BA:272(B):G:H1	35:BA:366:C:N4	2.17	0.40
35:BA:364:C:O2'	35:BA:365:C:H5''	2.20	0.40
35:BA:733:G:H8	35:BA:733:G:O5'	2.03	0.40
35:BA:754:C:H2'	35:BA:755:C:C6	2.56	0.40
35:BA:920:G:H2'	35:BA:921:G:C8	2.56	0.40
35:BA:1188:U:C4'	53:BV:79:VAL:CG2	2.99	0.40
35:BA:1587:A:H3'	35:BA:1588:C:C6	2.56	0.40
35:BA:1825:A:OP1	38:BD:249:PRO:HD3	2.20	0.40
35:BA:1851:U:O2'	35:BA:1852:C:H5'	2.22	0.40
35:BA:1856:G:H2'	35:BA:1857:G:C5'	2.51	0.40
35:BA:1935:G:O2'	35:BA:1936:A:H5''	2.21	0.40
35:BA:2230:G:H2'	35:BA:2231:C:C6	2.56	0.40
35:BA:2415:G:C6	35:BA:2416:C:C4	3.09	0.40
35:BA:2631:G:N3	35:BA:2810:A:H2	2.20	0.40
36:BB:43:C:C5	36:BB:45:A:N6	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:68:C:H2'	36:BB:69:G:H8	1.84	0.40
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	2.03	0.40
40:BF:201:VAL:O	40:BF:202:PHE:C	2.64	0.40
41:BG:21:ARG:C	41:BG:21:ARG:CD	2.92	0.40
41:BG:39:ILE:HD11	41:BG:155:MET:HG3	2.03	0.40
41:BG:139:LEU:HA	41:BG:144:ILE:HG21	2.03	0.40
42:BH:94:TYR:CD1	42:BH:160:LYS:HG2	2.56	0.40
42:BH:94:TYR:CA	42:BH:107:VAL:HG12	2.51	0.40
42:BH:98:LEU:HD12	42:BH:102:ALA:O	2.21	0.40
42:BH:118:PRO:O	42:BH:121:ILE:HB	2.22	0.40
43:BI:77:LEU:HD22	43:BI:140:LEU:HD23	2.04	0.40
45:BN:57:ALA:HB2	45:BN:123:TYR:O	2.21	0.40
46:BO:29:ASN:O	46:BO:30:ALA:C	2.63	0.40
46:BO:71:ARG:NH1	51:BT:74:ARG:HH22	2.19	0.40
49:BR:89:ASP:O	49:BR:90:ARG:C	2.64	0.40
49:BR:113:LEU:HD23	49:BR:113:LEU:H	1.87	0.40
51:BT:108:ARG:O	51:BT:109:GLU:C	2.64	0.40
52:BU:26:GLY:O	52:BU:30:LYS:HG2	2.21	0.40
52:BU:31:SER:O	52:BU:32:PHE:C	2.64	0.40
52:BU:95:LEU:HD13	53:BV:4:ILE:CG2	2.51	0.40
55:BX:29:TRP:CE3	55:BX:29:TRP:HA	2.56	0.40
56:BY:90:LEU:HD23	56:BY:90:LEU:N	2.36	0.40
57:BZ:119:GLU:O	57:BZ:119:GLU:HG3	2.20	0.40
1:CA:19:C:H5'	5:CE:86:ALA:CB	2.52	0.40
1:CA:235:C:H2'	1:CA:236:G:C8	2.47	0.40
1:CA:409:G:OP1	4:CD:24:GLU:HB3	2.22	0.40
1:CA:426:G:OP1	4:CD:36:ARG:NH1	2.54	0.40
1:CA:886:G:C4'	1:CA:915:A:H1'	2.51	0.40
1:CA:1059:C:O3'	14:CN:45:ARG:NH2	2.52	0.40
1:CA:1221:G:OP1	1:CA:1321:C:N3	2.55	0.40
1:CA:1225:A:OP2	13:CM:102:ARG:HD3	2.21	0.40
1:CA:1351:U:H2'	1:CA:1352:C:H6	1.86	0.40
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.21	0.40
2:CB:82:ARG:HG2	2:CB:82:ARG:NH1	2.36	0.40
2:CB:213:LEU:C	2:CB:213:LEU:CD2	2.94	0.40
3:CC:119:ARG:HD3	3:CC:119:ARG:O	2.21	0.40
3:CC:134:ILE:HG23	3:CC:151:VAL:CB	2.51	0.40
3:CC:142:MET:HG2	3:CC:149:ALA:HB3	2.03	0.40
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.89	0.40
5:CE:6:PHE:N	5:CE:63:ARG:HH12	2.17	0.40
5:CE:32:VAL:HB	5:CE:58:ALA:HB1	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:152:ALA:C	7:CG:154:TYR:N	2.79	0.40
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.21	0.40
8:CH:37:ARG:C	8:CH:39:LEU:N	2.78	0.40
8:CH:51:VAL:CG2	8:CH:60:ARG:HH11	2.32	0.40
9:CI:4:TYR:CE2	9:CI:88:TYR:O	2.74	0.40
13:CM:7:VAL:N	13:CM:8:GLU:OE1	2.52	0.40
13:CM:23:TYR:HB2	13:CM:67:GLU:CD	2.46	0.40
17:CQ:81:ARG:C	17:CQ:83:ASP:H	2.28	0.40
19:CS:31:ILE:CG2	19:CS:49:ILE:HA	2.51	0.40
19:CS:45:VAL:HG23	19:CS:45:VAL:O	2.21	0.40
19:CS:49:ILE:O	19:CS:49:ILE:HG13	2.22	0.40
22:CW:23:C:H2'	22:CW:24:U:C5	2.57	0.40
28:D3:30:ARG:HG3	28:D3:30:ARG:NH1	2.35	0.40
29:D4:55:ARG:HH21	29:D4:55:ARG:HG2	1.86	0.40
31:D6:46:HIS:CD2	31:D6:47:THR:OG1	2.74	0.40
35:DA:121:G:H4'	35:DA:149:A:H5'	2.03	0.40
35:DA:229:A:H3'	35:DA:230:U:C5'	2.52	0.40
35:DA:271(P):C:H5''	43:DI:46:ALA:HB2	2.02	0.40
35:DA:572:A:H5''	35:DA:573:G:OP2	2.20	0.40
35:DA:2086:U:H2'	35:DA:2087:G:H8	1.80	0.40
35:DA:2166:G:H2'	35:DA:2167:U:H5'	2.02	0.40
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.21	0.40
36:DB:42:C:H42	41:DG:91:ARG:CZ	2.34	0.40
37:DC:73:ARG:O	37:DC:75:LEU:N	2.55	0.40
41:DG:5:VAL:CG1	41:DG:6:ALA:N	2.70	0.40
42:DH:7:LEU:N	42:DH:7:LEU:HD12	2.11	0.40
42:DH:162:ILE:HG13	42:DH:162:ILE:O	2.21	0.40
43:DI:13:GLY:HA3	43:DI:17:GLN:CD	2.46	0.40
43:DI:52:ARG:HE	43:DI:53:ALA:N	2.19	0.40
43:DI:78:THR:HA	43:DI:141:LYS:HB2	2.03	0.40
43:DI:97:ILE:HG12	43:DI:140:LEU:HD11	2.03	0.40
47:DP:116:GLY:O	47:DP:117:GLU:HG2	2.21	0.40
48:DQ:60:ARG:CA	57:DZ:178:GLU:O	2.69	0.40
48:DQ:109:VAL:HG22	48:DQ:113:GLN:HB2	2.04	0.40
50:DS:99:LYS:HD2	50:DS:99:LYS:N	2.19	0.40
50:DS:103:GLU:N	50:DS:103:GLU:OE1	2.54	0.40
53:DV:22:VAL:HG21	53:DV:94:LEU:HG	2.03	0.40
56:DY:28:LYS:N	56:DY:28:LYS:CE	2.83	0.40
56:DY:30:VAL:CG1	56:DY:31:LEU:N	2.84	0.40
1:AA:35:G:H2'	1:AA:36:C:C6	2.57	0.40
1:AA:793:U:O2'	1:AA:1516:G:HI'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:976:G:H5'	1:AA:1358:U:HO2'	1.85	0.40
1:AA:1457:G:P	20:AT:39:LYS:HZ2	2.44	0.40
2:AB:12:GLU:OE1	2:AB:13:ALA:N	2.54	0.40
2:AB:112:VAL:HG11	2:AB:156:LYS:HE2	2.04	0.40
3:AC:83:ARG:HA	3:AC:86:VAL:HG22	2.04	0.40
4:AD:103:ASN:OD1	4:AD:114:ARG:NE	2.55	0.40
6:AF:70:ASP:C	6:AF:72:VAL:N	2.80	0.40
9:AI:118:LYS:NZ	9:AI:118:LYS:CB	2.84	0.40
11:AK:58:PRO:O	11:AK:59:TYR:C	2.62	0.40
14:AN:24:CYS:HB2	14:AN:33:VAL:CG1	2.51	0.40
15:AO:86:GLY:O	15:AO:87:ILE:HG23	2.21	0.40
20:AT:13:LEU:HD12	20:AT:14:LYS:H	1.85	0.40
22:AV:56:C:H6	22:AV:56:C:P	2.43	0.40
24:AY:33:LYS:HZ2	24:AY:33:LYS:HG2	1.63	0.40
28:B3:11:SER:OG	35:BA:989:G:OP2	2.38	0.40
29:B4:33:VAL:CG1	29:B4:34:GLU:N	2.83	0.40
35:BA:197:A:N6	35:BA:2430:A:H2'	2.36	0.40
35:BA:225:A:H2'	35:BA:226:G:H5'	2.02	0.40
35:BA:264:C:O2'	35:BA:265:A:H2'	2.21	0.40
35:BA:1257:C:OP1	40:BF:72:ARG:NH2	2.54	0.40
35:BA:1444:G:N2	35:BA:1548:C:C2	2.89	0.40
35:BA:1705:G:C6	35:BA:1706:U:C4	3.08	0.40
35:BA:1792:G:H2'	35:BA:1793:C:H6	1.87	0.40
35:BA:1926:U:H2'	35:BA:1928:A:OP2	2.21	0.40
35:BA:2024:G:O2'	35:BA:2025:C:H5'	2.22	0.40
35:BA:2582:G:O2'	35:BA:2583:G:H5'	2.21	0.40
35:BA:2585:U:O2	35:BA:2585:U:O4'	2.39	0.40
36:BB:78:A:C2	36:BB:100:A:C4	3.09	0.40
39:BE:70:ALA:C	39:BE:72:VAL:H	2.27	0.40
39:BE:115:GLY:O	39:BE:116:VAL:C	2.64	0.40
40:BF:22:ALA:CB	40:BF:26:ALA:HB2	2.51	0.40
41:BG:83:ARG:HH11	41:BG:84:LYS:HZ1	1.68	0.40
41:BG:107:LEU:C	41:BG:108:ASN:HD22	2.30	0.40
43:BI:128:LEU:HB3	43:BI:129:THR:H	1.71	0.40
45:BN:132:ALA:O	45:BN:133:GLN:CB	2.68	0.40
46:BO:14:THR:O	46:BO:51:ALA:HB3	2.22	0.40
46:BO:86:ILE:HG22	46:BO:94:ARG:HD3	2.03	0.40
47:BP:16:ARG:HH11	47:BP:16:ARG:CA	2.33	0.40
47:BP:35:HIS:O	47:BP:36:LYS:HB2	2.22	0.40
47:BP:68:GLN:HE21	47:BP:68:GLN:N	2.20	0.40
47:BP:97:PRO:HD3	47:BP:126:VAL:HB	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:109:VAL:C	48:BQ:110:THR:O	2.64	0.40
49:BR:6:SER:OG	49:BR:7:GLY:N	2.53	0.40
49:BR:33:ARG:HD2	49:BR:33:ARG:N	2.35	0.40
50:BS:42:ASP:O	50:BS:43:GLU:CB	2.69	0.40
50:BS:103:GLU:N	50:BS:103:GLU:OE1	2.53	0.40
51:BT:89:VAL:O	51:BT:89:VAL:HG23	2.22	0.40
51:BT:118:ARG:O	51:BT:119:LYS:C	2.63	0.40
52:BU:18:LEU:HD23	52:BU:18:LEU:HA	1.88	0.40
53:BV:97:LYS:HA	53:BV:97:LYS:HD3	1.75	0.40
54:BW:9:TYR:N	54:BW:102:HIS:HD2	2.06	0.40
56:BY:9:LYS:O	56:BY:28:LYS:NZ	2.34	0.40
56:BY:28:LYS:O	56:BY:38:ILE:CB	2.66	0.40
57:BZ:56:VAL:CG1	57:BZ:57:ILE:N	2.82	0.40
57:BZ:179:ASP:OD2	57:BZ:181:GLU:HB2	2.22	0.40
1:CA:79:G:H1'	1:CA:91:C:H42	1.87	0.40
1:CA:149:A:H2'	1:CA:150:C:C6	2.56	0.40
1:CA:321:A:N7	1:CA:328:C:C6	2.89	0.40
1:CA:353:A:C2'	1:CA:354:G:OP2	2.70	0.40
1:CA:628:G:H2'	1:CA:629:G:O4'	2.20	0.40
1:CA:682:G:H2'	1:CA:683:G:C8	2.56	0.40
1:CA:1003:G:H21	1:CA:1037:C:C2'	2.34	0.40
1:CA:1020:U:H2'	1:CA:1021:G:C8	2.56	0.40
1:CA:1155:G:H2'	1:CA:1156:G:O4'	2.21	0.40
2:CB:127:ILE:C	2:CB:129:GLU:H	2.28	0.40
2:CB:208:ILE:H	2:CB:208:ILE:HG13	1.70	0.40
3:CC:8:ILE:HD11	3:CC:184:TYR:HB3	2.02	0.40
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	2.03	0.40
3:CC:59:ARG:HG2	3:CC:64:VAL:HA	2.03	0.40
3:CC:132:ARG:O	3:CC:133:ALA:C	2.62	0.40
3:CC:188:LEU:C	3:CC:190:ARG:H	2.29	0.40
5:CE:11:ILE:HD11	5:CE:33:VAL:CG2	2.51	0.40
5:CE:11:ILE:CD1	5:CE:31:LEU:HD12	2.46	0.40
9:CI:110:GLU:O	9:CI:111:ARG:O	2.39	0.40
12:CL:90:LEU:HB3	12:CL:93:VAL:CG2	2.51	0.40
15:CO:5:LYS:H	15:CO:5:LYS:HG3	1.64	0.40
18:CR:40:LEU:C	18:CR:42:ARG:N	2.79	0.40
20:CT:51:GLU:CA	20:CT:54:LYS:HB3	2.51	0.40
22:CV:23:C:C2	22:CV:24:U:C5	3.09	0.40
22:CW:57:A:H2'	22:CW:58:A:H5'	2.03	0.40
24:CY:13:PRO:O	24:CY:13:PRO:CD	2.69	0.40
27:D2:21:LEU:HA	27:D2:21:LEU:HD23	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:7:HIS:CD2	47:DP:50:ARG:HD3	2.57	0.40
35:DA:943:U:O2'	35:DA:944:G:H5'	2.21	0.40
35:DA:1439:A:H2'	35:DA:1440:G:O4'	2.22	0.40
35:DA:1549:C:O2'	35:DA:1550:C:H5'	2.22	0.40
35:DA:1579:A:H2'	35:DA:1580:A:C8	2.56	0.40
35:DA:1936:A:C8	35:DA:1940:U:O2	2.74	0.40
35:DA:2731:G:C6	35:DA:2732:G:O6	2.74	0.40
35:DA:2738:A:C2	35:DA:2739:U:N1	2.90	0.40
35:DA:2870:C:C2'	35:DA:2871:C:H5'	2.51	0.40
35:DA:2885:C:H2'	35:DA:2886:G:O5'	2.21	0.40
38:DD:160:GLY:HA2	38:DD:199:ALA:HB2	2.02	0.40
39:DE:24:THR:O	39:DE:24:THR:HG23	2.21	0.40
39:DE:52:LEU:O	39:DE:74:PRO:HB3	2.20	0.40
39:DE:196:VAL:HG13	39:DE:196:VAL:O	2.21	0.40
41:DG:91:ARG:CD	41:DG:91:ARG:C	2.94	0.40
41:DG:132:ASN:OD1	41:DG:158:ALA:CB	2.70	0.40
43:DI:79:ILE:C	43:DI:81:VAL:N	2.79	0.40
45:DN:60:ILE:O	45:DN:61:ARG:C	2.63	0.40
47:DP:139:LYS:C	47:DP:141:ALA:N	2.79	0.40
48:DQ:54:MET:CG	48:DQ:64:ILE:HD13	2.51	0.40
48:DQ:58:PHE:CD1	48:DQ:61:GLY:HA3	2.57	0.40
50:DS:36:TYR:N	50:DS:36:TYR:HD1	2.17	0.40
52:DU:95:LEU:HD12	53:DV:11:GLN:HB2	2.02	0.40
56:DY:28:LYS:N	56:DY:29:GLU:OE1	2.55	0.40
56:DY:96:ILE:HD12	56:DY:99:CYS:CB	2.52	0.40
1:AA:278:G:OP2	17:AQ:41:LYS:HE2	2.22	0.40
1:AA:323:U:H4'	20:AT:22:ARG:HB2	2.02	0.40
1:AA:562:C:H1'	12:AL:12:ARG:HB3	2.03	0.40
1:AA:938:A:C6	1:AA:939:G:C5	3.10	0.40
1:AA:939:G:H2'	1:AA:940:C:H6	1.86	0.40
1:AA:1135:U:H4'	1:AA:1136:U:C5	2.56	0.40
1:AA:1148:U:O4'	9:AI:16:ARG:NH1	2.55	0.40
1:AA:1378:C:H5	1:AA:1379:G:C8	2.39	0.40
2:AB:224:GLN:C	2:AB:226:ARG:H	2.30	0.40
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	2.03	0.40
3:AC:134:ILE:HG22	3:AC:168:ALA:HB3	2.03	0.40
9:AI:121:ARG:HG2	9:AI:121:ARG:NH1	2.36	0.40
22:AV:54:U:C5	22:AV:55:U:C6	3.09	0.40
22:AW:25:C:H2'	22:AW:26:G:C8	2.56	0.40
28:B3:45:GLY:HA3	35:BA:852:G:H5'	2.04	0.40
30:B5:19:ARG:NH2	35:BA:1264:G:OP1	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:7:HIS:CD2	47:BP:50:ARG:HD3	2.56	0.40
33:B8:25:MET:HG3	47:BP:64:LYS:CG	2.51	0.40
35:BA:141:A:H1'	35:BA:1408:C:O2'	2.22	0.40
35:BA:146:G:H2'	35:BA:147:U:H5'	2.03	0.40
35:BA:357:A:H2'	35:BA:358:U:C6	2.56	0.40
35:BA:413:C:H4'	35:BA:1880:C:O2'	2.21	0.40
35:BA:579:G:H2'	35:BA:580:C:C6	2.57	0.40
35:BA:906:G:H5'	35:BA:906:G:H8	1.87	0.40
35:BA:1156:A:C8	52:BU:51:LYS:HD2	2.57	0.40
35:BA:1192:G:C2'	35:BA:1193:G:H5'	2.52	0.40
35:BA:1283:G:N2	35:BA:1285:G:H3'	2.37	0.40
35:BA:2360:A:O2'	35:BA:2361:A:H5''	2.19	0.40
36:BB:59:A:H2'	36:BB:60:C:H6	1.86	0.40
38:BD:21:PHE:HB3	38:BD:24:ILE:CG1	2.50	0.40
38:BD:67:PHE:CE1	38:BD:157:ARG:CZ	3.04	0.40
38:BD:137:PRO:O	38:BD:138:VAL:C	2.62	0.40
38:BD:146:GLU:OE1	38:BD:190:TYR:HB2	2.22	0.40
41:BG:62:LEU:C	41:BG:64:THR:H	2.28	0.40
41:BG:170:ARG:NH2	41:BG:180:PHE:CD1	2.88	0.40
42:BH:76:VAL:C	42:BH:78:GLY:N	2.78	0.40
47:BP:47:ASP:OD1	47:BP:49:ARG:HB2	2.20	0.40
49:BR:77:ARG:C	49:BR:79:LEU:N	2.77	0.40
50:BS:61:ASN:H	50:BS:65:VAL:HG23	1.86	0.40
50:BS:84:GLN:C	50:BS:85:VAL:HG13	2.46	0.40
52:BU:88:ILE:HD12	52:BU:109:LEU:CD2	2.51	0.40
56:BY:81:LYS:CD	56:BY:97:ARG:HE	2.34	0.40
1:CA:158:G:H2'	1:CA:159:G:C8	2.53	0.40
1:CA:579:G:H2'	1:CA:580:U:C6	2.56	0.40
1:CA:585:G:O2'	1:CA:879:C:OP1	2.40	0.40
1:CA:596:C:H2'	1:CA:597:G:O4'	2.21	0.40
1:CA:729:A:H2'	1:CA:730:G:C8	2.52	0.40
1:CA:765:G:H5''	1:CA:766:A:OP1	2.21	0.40
1:CA:835:U:P	18:CR:60:ALA:HB3	2.62	0.40
1:CA:838:G:C8	1:CA:838:G:O5'	2.75	0.40
1:CA:932:C:OP1	7:CG:3:ARG:O	2.40	0.40
1:CA:939:G:H2'	1:CA:940:C:H6	1.86	0.40
1:CA:1092:A:H4'	7:CG:4:ARG:NH2	2.37	0.40
1:CA:1164:G:O2'	1:CA:1165:C:H5'	2.22	0.40
1:CA:1225:A:C2	1:CA:1226:C:C5	3.09	0.40
1:CA:1303:C:OP1	1:CA:1304:G:OP2	2.40	0.40
1:CA:1351:U:H2'	1:CA:1352:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1484:C:H4'	35:DA:1960:A:O2'	2.22	0.40
2:CB:36:ARG:HD2	2:CB:36:ARG:N	2.37	0.40
2:CB:41:ILE:HD12	2:CB:41:ILE:N	2.36	0.40
2:CB:72:GLY:O	2:CB:94:ASN:O	2.39	0.40
3:CC:182:ILE:HD11	3:CC:203:PHE:CD1	2.56	0.40
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.21	0.40
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	2.03	0.40
7:CG:39:ALA:O	7:CG:40:ALA:C	2.62	0.40
8:CH:61:VAL:HG12	8:CH:63:LEU:HD13	2.04	0.40
8:CH:102:ARG:HD3	8:CH:102:ARG:N	2.35	0.40
11:CK:59:TYR:CZ	11:CK:63:LEU:HD11	2.56	0.40
15:CO:50:HIS:O	15:CO:53:HIS:N	2.48	0.40
15:CO:63:ARG:O	15:CO:64:ARG:C	2.65	0.40
16:CP:72:ARG:C	16:CP:74:LEU:H	2.28	0.40
19:CS:50:ALA:HB1	19:CS:57:HIS:CB	2.26	0.40
22:CV:26:G:H2'	22:CV:27:U:C6	2.57	0.40
22:CW:54:U:H2'	22:CW:55:U:C6	2.57	0.40
58:CX:16:A:H2	58:CX:17:U:H1'	1.85	0.40
24:CY:3:LYS:HB3	24:CY:5:TYR:CE1	2.56	0.40
26:D1:45:ASN:C	26:D1:45:ASN:HD22	2.30	0.40
28:D3:57:GLU:HG2	28:D3:58:VAL:N	2.36	0.40
29:D4:33:VAL:CG1	29:D4:34:GLU:N	2.84	0.40
35:DA:416:C:H2'	35:DA:417:C:H6	1.86	0.40
35:DA:1653:G:H8	35:DA:1653:G:O5'	2.05	0.40
35:DA:1791:A:H3'	35:DA:1792:G:H8	1.86	0.40
35:DA:1817:G:H2'	35:DA:1818:U:H5'	2.02	0.40
35:DA:1915:U:C6	35:DA:1915:U:C3'	3.05	0.40
35:DA:2023:G:H4'	35:DA:2617:C:O3'	2.22	0.40
35:DA:2612:C:H2'	35:DA:2613:U:H5'	2.03	0.40
35:DA:2701:C:H2'	35:DA:2702:U:H2'	2.03	0.40
35:DA:2825:C:H2'	35:DA:2826:A:O4'	2.21	0.40
38:DD:79:VAL:HG11	38:DD:111:LEU:CD1	2.52	0.40
38:DD:222:ARG:HB2	38:DD:222:ARG:HH11	1.86	0.40
39:DE:63:LEU:O	39:DE:73:GLU:OE1	2.40	0.40
40:DF:65:TRP:HH2	40:DF:73:ALA:O	2.02	0.40
41:DG:122:PRO:HD3	41:DG:181:ARG:HE	1.86	0.40
42:DH:150:ALA:C	42:DH:152:ARG:N	2.79	0.40
45:DN:132:ALA:O	45:DN:133:GLN:CB	2.68	0.40
47:DP:30:THR:O	47:DP:31:ALA:C	2.64	0.40
47:DP:135:LEU:O	47:DP:138:LEU:N	2.55	0.40
53:DV:61:VAL:HG12	53:DV:94:LEU:CD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:108:PRO:CB	57:DZ:144:LEU:H	2.30	0.40
1:AA:96:U:O2'	1:AA:97:G:H8	2.04	0.40
1:AA:107:G:C2'	1:AA:108:G:H5'	2.52	0.40
1:AA:114:U:H2'	1:AA:115:G:C8	2.56	0.40
1:AA:321:A:N7	1:AA:328:C:C6	2.90	0.40
1:AA:460:G:O6	1:AA:470:C:H5''	2.21	0.40
1:AA:765:G:H5''	1:AA:766:A:OP1	2.21	0.40
1:AA:766:A:H2	1:AA:1525:G:N3	2.19	0.40
1:AA:862:C:C4	1:AA:863:U:C5	3.10	0.40
1:AA:1066:C:C3'	1:AA:1067:A:C8	3.00	0.40
1:AA:1118:C:H42	1:AA:1156:G:N2	2.20	0.40
1:AA:1218:C:O2'	1:AA:1219:U:H5'	2.21	0.40
1:AA:1325:C:H5''	21:AU:6:ARG:HH21	1.84	0.40
1:AA:1492:A:H5'	24:AY:34:GLN:O	2.21	0.40
3:AC:59:ARG:CG	3:AC:64:VAL:HG13	2.52	0.40
3:AC:132:ARG:O	3:AC:134:ILE:N	2.54	0.40
4:AD:106:TYR:CD2	4:AD:106:TYR:C	2.99	0.40
4:AD:199:ASN:C	4:AD:201:GLN:N	2.78	0.40
5:AE:71:LEU:HD23	5:AE:114:GLY:O	2.21	0.40
6:AF:53:ALA:HB3	6:AF:86:ARG:NH1	2.36	0.40
7:AG:30:ILE:HD12	7:AG:120:ILE:CD1	2.46	0.40
9:AI:10:ARG:NH2	9:AI:11:LYS:HB2	2.36	0.40
9:AI:16:ARG:HH21	9:AI:64:THR:HB	1.86	0.40
13:AM:14:ARG:C	13:AM:16:ASP:N	2.78	0.40
15:AO:30:ALA:C	15:AO:32:LEU:N	2.79	0.40
22:AW:4:G:OP1	35:BA:1885:A:H5''	2.21	0.40
25:B0:11:ARG:HB2	25:B0:11:ARG:CZ	2.51	0.40
27:B2:31:GLU:O	27:B2:34:GLU:HB3	2.22	0.40
27:B2:35:LEU:HD11	27:B2:53:LEU:HD12	2.03	0.40
31:B6:24:GLU:HB3	31:B6:25:LYS:H	1.57	0.40
35:BA:18:C:C2	35:BA:19:C:C6	3.10	0.40
35:BA:616:G:H5'	40:BF:107:LYS:HZ3	1.87	0.40
35:BA:637:A:OP2	47:BP:115:LEU:HB2	2.21	0.40
35:BA:716:A:C3'	35:BA:717:G:H5''	2.50	0.40
35:BA:859:G:O3'	35:BA:860:U:O2	2.39	0.40
35:BA:1020:A:N1	35:BA:1141:U:H1'	2.36	0.40
35:BA:1331:A:O2'	35:BA:1332:G:H8	2.04	0.40
35:BA:1480:G:N1	35:BA:1512:U:O2	2.55	0.40
35:BA:1636:C:H2'	35:BA:1637:A:C8	2.57	0.40
35:BA:1824:G:O2'	35:BA:1825:A:H5'	2.21	0.40
35:BA:1945:G:C6	35:BA:1946:U:C4	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.52	0.40
35:BA:2447:G:N7	35:BA:2501:C:O4'	2.54	0.40
35:BA:2657:A:O2'	42:BH:160:LYS:HE2	2.22	0.40
37:BC:66:HIS:HB3	37:BC:180:PHE:CB	2.52	0.40
37:BC:75:LEU:O	37:BC:77:ILE:N	2.54	0.40
38:BD:68:LYS:O	38:BD:69:ARG:HB2	2.20	0.40
38:BD:164:GLN:OE1	38:BD:176:ARG:NH2	2.55	0.40
39:BE:101:ARG:NH1	39:BE:171:GLU:N	2.67	0.40
40:BF:5:ALA:C	40:BF:6:VAL:HG23	2.47	0.40
41:BG:4:ASP:HB2	41:BG:8:LYS:CE	2.51	0.40
41:BG:39:ILE:HG23	41:BG:92:VAL:CG1	2.52	0.40
41:BG:63:ILE:H	41:BG:63:ILE:HG12	1.51	0.40
41:BG:114:ILE:O	41:BG:115:ARG:C	2.64	0.40
42:BH:85:LYS:HG3	42:BH:145:ALA:HB2	2.04	0.40
42:BH:162:ILE:HG13	42:BH:162:ILE:O	2.21	0.40
43:BI:18:VAL:HG23	43:BI:18:VAL:O	2.20	0.40
43:BI:64:GLU:OE2	43:BI:64:GLU:HA	2.21	0.40
43:BI:69:LYS:O	43:BI:73:GLU:HB3	2.21	0.40
46:BO:20:MET:HG2	46:BO:21:CYS:O	2.22	0.40
47:BP:83:VAL:O	47:BP:114:ILE:HA	2.21	0.40
51:BT:99:LEU:N	51:BT:99:LEU:CD1	2.84	0.40
52:BU:74:LEU:N	52:BU:74:LEU:CD1	2.84	0.40
52:BU:98:LEU:O	52:BU:99:ALA:C	2.65	0.40
53:BV:38:LEU:HD12	53:BV:57:VAL:HG12	2.02	0.40
53:BV:39:LEU:N	53:BV:39:LEU:HD22	2.37	0.40
53:BV:39:LEU:HA	53:BV:47:VAL:HG12	2.03	0.40
56:BY:13:VAL:CG2	56:BY:72:VAL:HB	2.50	0.40
57:BZ:151:HIS:HE1	57:BZ:168:GLU:OE2	2.04	0.40
1:CA:90:U:H6	1:CA:90:U:H3'	1.87	0.40
1:CA:129(A):G:N2	1:CA:189(E):U:H1'	2.36	0.40
1:CA:512:U:H2'	1:CA:513:C:H6	1.86	0.40
1:CA:651:C:O2'	1:CA:652:U:H5'	2.20	0.40
1:CA:730:G:C5	1:CA:731:G:H1'	2.57	0.40
1:CA:915:A:H2'	1:CA:916:G:O4'	2.20	0.40
1:CA:925:G:H4'	1:CA:1502:A:N1	2.36	0.40
1:CA:927:G:H1	1:CA:1390:U:H3	1.70	0.40
1:CA:1056:U:H5'	3:CC:163:ALA:HB3	2.03	0.40
2:CB:114:ARG:HH11	2:CB:118:LEU:HD21	1.87	0.40
2:CB:127:ILE:HD11	2:CB:139:LYS:HZ1	1.86	0.40
7:CG:74:GLU:OE1	7:CG:76:ARG:HD2	2.21	0.40
7:CG:108:ALA:O	7:CG:119:ARG:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:63:LEU:CB	8:CH:65:TYR:CE1	3.04	0.40
9:CI:23:ASN:HD21	9:CI:25:LYS:HG2	1.87	0.40
9:CI:42:ARG:NH1	9:CI:71:SER:HB3	2.36	0.40
10:CJ:57:LYS:O	10:CJ:57:LYS:HG3	2.21	0.40
10:CJ:90:LEU:H	10:CJ:91:PRO:CD	2.34	0.40
12:CL:6:GLN:O	12:CL:10:LYS:HB2	2.22	0.40
20:CT:11:SER:HA	20:CT:13:LEU:CD1	2.52	0.40
21:CU:12:LYS:CB	21:CU:22:ARG:HG3	2.51	0.40
31:D6:24:GLU:HB3	31:D6:25:LYS:H	1.56	0.40
33:D8:62:LEU:HD22	35:DA:242:G:C5'	2.52	0.40
34:D9:27:CYS:SG	34:D9:32:HIS:ND1	2.83	0.40
35:DA:244:A:H2'	35:DA:245:G:O4'	2.21	0.40
35:DA:566:U:H2'	35:DA:567:A:O4'	2.21	0.40
35:DA:589:C:H2'	35:DA:590:A:C8	2.56	0.40
35:DA:729:G:O2'	35:DA:763:G:H4'	2.21	0.40
35:DA:817:C:O2'	35:DA:839:U:OP1	2.39	0.40
35:DA:995:C:O2	45:DN:4:TYR:OH	2.35	0.40
35:DA:1290:C:H2'	35:DA:1291:C:H6	1.86	0.40
35:DA:1478:G:C2	35:DA:1479:G:C8	3.10	0.40
35:DA:1478:G:C2'	35:DA:1479:G:H5'	2.51	0.40
35:DA:1567:A:O4'	35:DA:1568:G:C2	2.74	0.40
35:DA:1568:G:H5''	38:DD:61:LEU:HD22	2.03	0.40
35:DA:2068:U:C2	35:DA:2430:A:H2	2.33	0.40
35:DA:2195:C:O2'	35:DA:2196:C:H5'	2.22	0.40
35:DA:2257:U:O2'	35:DA:2258:C:H5'	2.22	0.40
35:DA:2801:A:O2'	35:DA:2895:U:H5'	2.22	0.40
38:DD:69:ARG:NH1	38:DD:69:ARG:HG3	2.37	0.40
38:DD:140:THR:O	38:DD:165:ILE:HG13	2.22	0.40
39:DE:7:VAL:HA	39:DE:196:VAL:HG12	2.03	0.40
39:DE:34:VAL:HG11	39:DE:78:LEU:HD22	2.03	0.40
41:DG:34:LEU:HD23	41:DG:172:LEU:HD21	2.02	0.40
46:DO:14:THR:O	46:DO:51:ALA:HB3	2.21	0.40
46:DO:107:ARG:NH2	51:DT:35:LYS:HD2	2.30	0.40
49:DR:95:THR:O	49:DR:95:THR:HG23	2.22	0.40
50:DS:90:GLY:C	50:DS:92:TYR:N	2.79	0.40
55:DX:57:LEU:N	55:DX:57:LEU:HD13	2.36	0.40
56:DY:90:LEU:HD23	56:DY:90:LEU:N	2.35	0.40

All (1) 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)
35:DA:1411:C:O3'	36:DB:53:A:O2'[1_655]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	133 (57%)	67 (29%)	33 (14%)	0	1
2	CB	233/256 (91%)	133 (57%)	68 (29%)	32 (14%)	0	1
3	AC	205/239 (86%)	130 (63%)	50 (24%)	25 (12%)	0	1
3	CC	205/239 (86%)	128 (62%)	52 (25%)	25 (12%)	0	1
4	AD	206/209 (99%)	139 (68%)	45 (22%)	22 (11%)	0	2
4	CD	206/209 (99%)	138 (67%)	46 (22%)	22 (11%)	0	2
5	AE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	2
5	CE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	2
6	AF	99/101 (98%)	74 (75%)	13 (13%)	12 (12%)	0	1
6	CF	99/101 (98%)	74 (75%)	13 (13%)	12 (12%)	0	1
7	AG	153/156 (98%)	107 (70%)	35 (23%)	11 (7%)	1	6
7	CG	153/156 (98%)	107 (70%)	35 (23%)	11 (7%)	1	6
8	AH	136/138 (99%)	99 (73%)	31 (23%)	6 (4%)	2	15
8	CH	136/138 (99%)	99 (73%)	30 (22%)	7 (5%)	1	13
9	AI	121/128 (94%)	75 (62%)	31 (26%)	15 (12%)	0	1
9	CI	121/128 (94%)	74 (61%)	33 (27%)	14 (12%)	0	1
10	AJ	97/105 (92%)	64 (66%)	28 (29%)	5 (5%)	1	12
10	CJ	97/105 (92%)	64 (66%)	28 (29%)	5 (5%)	1	12
11	AK	117/129 (91%)	76 (65%)	28 (24%)	13 (11%)	0	2
11	CK	117/129 (91%)	76 (65%)	28 (24%)	13 (11%)	0	2
12	AL	123/135 (91%)	89 (72%)	21 (17%)	13 (11%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	CL	123/135 (91%)	87 (71%)	22 (18%)	14 (11%)	0	2
13	AM	110/126 (87%)	62 (56%)	27 (24%)	21 (19%)	0	0
13	CM	110/126 (87%)	63 (57%)	26 (24%)	21 (19%)	0	0
14	AN	58/61 (95%)	37 (64%)	14 (24%)	7 (12%)	0	1
14	CN	58/61 (95%)	36 (62%)	16 (28%)	6 (10%)	0	2
15	AO	86/89 (97%)	54 (63%)	25 (29%)	7 (8%)	1	4
15	CO	86/89 (97%)	55 (64%)	24 (28%)	7 (8%)	1	4
16	AP	82/88 (93%)	55 (67%)	18 (22%)	9 (11%)	0	2
16	CP	82/88 (93%)	55 (67%)	18 (22%)	9 (11%)	0	2
17	AQ	98/105 (93%)	65 (66%)	21 (21%)	12 (12%)	0	1
17	CQ	98/105 (93%)	66 (67%)	20 (20%)	12 (12%)	0	1
18	AR	68/88 (77%)	36 (53%)	22 (32%)	10 (15%)	0	1
18	CR	68/88 (77%)	35 (52%)	23 (34%)	10 (15%)	0	1
19	AS	83/93 (89%)	48 (58%)	18 (22%)	17 (20%)	0	0
19	CS	83/93 (89%)	48 (58%)	18 (22%)	17 (20%)	0	0
20	AT	97/106 (92%)	62 (64%)	25 (26%)	10 (10%)	0	2
20	CT	97/106 (92%)	62 (64%)	25 (26%)	10 (10%)	0	2
21	AU	23/27 (85%)	11 (48%)	10 (44%)	2 (9%)	0	3
21	CU	23/27 (85%)	11 (48%)	10 (44%)	2 (9%)	0	3
24	AY	95/97 (98%)	81 (85%)	10 (10%)	4 (4%)	2	16
24	CY	14/97 (14%)	8 (57%)	4 (29%)	2 (14%)	0	1
25	B0	82/85 (96%)	67 (82%)	10 (12%)	5 (6%)	1	9
25	D0	82/85 (96%)	66 (80%)	10 (12%)	6 (7%)	1	6
26	B1	92/98 (94%)	70 (76%)	16 (17%)	6 (6%)	1	8
26	D1	92/98 (94%)	74 (80%)	9 (10%)	9 (10%)	0	2
27	B2	69/72 (96%)	51 (74%)	13 (19%)	5 (7%)	1	6
27	D2	69/72 (96%)	47 (68%)	18 (26%)	4 (6%)	1	10
28	B3	58/60 (97%)	49 (84%)	8 (14%)	1 (2%)	7	35
28	D3	58/60 (97%)	50 (86%)	7 (12%)	1 (2%)	7	35
29	B4	54/71 (76%)	28 (52%)	12 (22%)	14 (26%)	0	0
29	D4	54/71 (76%)	28 (52%)	12 (22%)	14 (26%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	B5	57/60 (95%)	42 (74%)	9 (16%)	6 (10%)	0	2
30	D5	57/60 (95%)	41 (72%)	10 (18%)	6 (10%)	0	2
31	B6	41/54 (76%)	17 (42%)	15 (37%)	9 (22%)	0	0
31	D6	41/54 (76%)	16 (39%)	16 (39%)	9 (22%)	0	0
32	B7	47/49 (96%)	45 (96%)	1 (2%)	1 (2%)	5	31
32	D7	47/49 (96%)	45 (96%)	1 (2%)	1 (2%)	5	31
33	B8	62/65 (95%)	35 (56%)	15 (24%)	12 (19%)	0	0
33	D8	62/65 (95%)	34 (55%)	15 (24%)	13 (21%)	0	0
34	B9	34/37 (92%)	24 (71%)	8 (24%)	2 (6%)	1	10
34	D9	34/37 (92%)	24 (71%)	8 (24%)	2 (6%)	1	10
37	BC	183/229 (80%)	75 (41%)	67 (37%)	41 (22%)	0	0
37	DC	183/229 (80%)	76 (42%)	65 (36%)	42 (23%)	0	0
38	BD	270/276 (98%)	199 (74%)	48 (18%)	23 (8%)	0	3
38	DD	270/276 (98%)	198 (73%)	47 (17%)	25 (9%)	0	3
39	BE	203/206 (98%)	142 (70%)	37 (18%)	24 (12%)	0	1
39	DE	203/206 (98%)	143 (70%)	36 (18%)	24 (12%)	0	1
40	BF	206/210 (98%)	137 (66%)	40 (19%)	29 (14%)	0	1
40	DF	206/210 (98%)	137 (66%)	41 (20%)	28 (14%)	0	1
41	BG	177/182 (97%)	109 (62%)	44 (25%)	24 (14%)	0	1
41	DG	177/182 (97%)	107 (60%)	43 (24%)	27 (15%)	0	0
42	BH	163/180 (91%)	90 (55%)	42 (26%)	31 (19%)	0	0
42	DH	163/180 (91%)	90 (55%)	42 (26%)	31 (19%)	0	0
43	BI	143/148 (97%)	80 (56%)	36 (25%)	27 (19%)	0	0
43	DI	143/148 (97%)	80 (56%)	36 (25%)	27 (19%)	0	0
45	BN	137/140 (98%)	97 (71%)	20 (15%)	20 (15%)	0	1
45	DN	137/140 (98%)	96 (70%)	21 (15%)	20 (15%)	0	1
46	BO	120/122 (98%)	99 (82%)	15 (12%)	6 (5%)	1	13
46	DO	120/122 (98%)	99 (82%)	15 (12%)	6 (5%)	1	13
47	BP	144/150 (96%)	70 (49%)	34 (24%)	40 (28%)	0	0
47	DP	144/150 (96%)	70 (49%)	34 (24%)	40 (28%)	0	0
48	BQ	139/141 (99%)	108 (78%)	18 (13%)	13 (9%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
48	DQ	139/141 (99%)	108 (78%)	18 (13%)	13 (9%)	0	3
49	BR	115/118 (98%)	80 (70%)	20 (17%)	15 (13%)	0	1
49	DR	115/118 (98%)	82 (71%)	20 (17%)	13 (11%)	0	2
50	BS	97/112 (87%)	46 (47%)	20 (21%)	31 (32%)	0	0
50	DS	97/112 (87%)	46 (47%)	20 (21%)	31 (32%)	0	0
51	BT	136/146 (93%)	79 (58%)	33 (24%)	24 (18%)	0	0
51	DT	136/146 (93%)	80 (59%)	31 (23%)	25 (18%)	0	0
52	BU	115/118 (98%)	87 (76%)	18 (16%)	10 (9%)	0	3
52	DU	115/118 (98%)	88 (76%)	17 (15%)	10 (9%)	0	3
53	BV	99/101 (98%)	72 (73%)	12 (12%)	15 (15%)	0	0
53	DV	99/101 (98%)	72 (73%)	12 (12%)	15 (15%)	0	0
54	BW	111/113 (98%)	84 (76%)	17 (15%)	10 (9%)	0	3
54	DW	111/113 (98%)	85 (77%)	16 (14%)	10 (9%)	0	3
55	BX	91/96 (95%)	73 (80%)	15 (16%)	3 (3%)	3	21
55	DX	91/96 (95%)	72 (79%)	16 (18%)	3 (3%)	3	21
56	BY	99/110 (90%)	50 (50%)	23 (23%)	26 (26%)	0	0
56	DY	99/110 (90%)	50 (50%)	23 (23%)	26 (26%)	0	0
57	BZ	185/206 (90%)	123 (66%)	38 (20%)	24 (13%)	0	1
57	DZ	185/206 (90%)	101 (55%)	49 (26%)	35 (19%)	0	0
All	All	11855/12786 (93%)	7751 (65%)	2556 (22%)	1548 (13%)	0	1

All (1548) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	75	LYS
2	AB	83	MET
2	AB	101	MET
2	AB	150	SER
2	AB	238	LEU
3	AC	53	ALA
3	AC	79	ARG
3	AC	104	GLN
3	AC	156	ARG
3	AC	206	GLU
3	AC	207	VAL

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Mol	Chain	Res	Type
4	AD	5	ILE
4	AD	40	PRO
4	AD	48	ALA
4	AD	151	LYS
5	AE	16	THR
5	AE	73	ASN
6	AF	40	VAL
6	AF	43	LEU
6	AF	69	GLU
6	AF	70	ASP
6	AF	87	ARG
7	AG	77	SER
8	AH	97	VAL
9	AI	25	LYS
9	AI	29	ASN
9	AI	111	ARG
10	AJ	57	LYS
11	AK	122	LYS
12	AL	3	THR
12	AL	88	LYS
12	AL	89	ASP
12	AL	112	LYS
13	AM	4	ILE
13	AM	36	LYS
13	AM	59	TYR
13	AM	83	ASP
13	AM	99	ARG
13	AM	106	ASN
13	AM	108	ARG
14	AN	22	THR
16	AP	49	LEU
16	AP	81	ARG
17	AQ	34	LYS
17	AQ	68	ARG
18	AR	25	THR
18	AR	37	VAL
18	AR	45	SER
18	AR	82	THR
19	AS	10	PHE
19	AS	40	ILE
19	AS	45	VAL
19	AS	65	ASN

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Mol	Chain	Res	Type
19	AS	70	LYS
20	AT	10	LEU
20	AT	48	LYS
21	AU	3	LYS
24	AY	29	PRO
24	AY	47	LYS
25	B0	73	GLY
26	B1	24	ALA
26	B1	53	VAL
26	B1	83	GLU
27	B2	44	LEU
27	B2	47	ASN
27	B2	48	HIS
29	B4	26	SER
29	B4	35	VAL
29	B4	47	GLN
29	B4	48	ARG
29	B4	50	VAL
30	B5	4	HIS
30	B5	38	ALA
30	B5	55	ARG
30	B5	57	VAL
31	B6	23	THR
31	B6	31	PRO
31	B6	49	HIS
33	B8	30	ARG
33	B8	31	HIS
33	B8	34	TRP
33	B8	35	GLN
33	B8	49	VAL
33	B8	64	TYR
37	BC	25	ALA
37	BC	37	PHE
37	BC	55	ASP
37	BC	68	LEU
37	BC	100	ILE
37	BC	133	PRO
37	BC	140	PRO
37	BC	171	ILE
37	BC	174	PRO
37	BC	182	PRO
37	BC	201	PRO

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Mol	Chain	Res	Type
37	BC	216	THR
38	BD	3	VAL
38	BD	25	THR
38	BD	32	SER
38	BD	36	PRO
38	BD	123	ALA
38	BD	127	VAL
38	BD	169	GLU
38	BD	271	ILE
39	BE	53	PRO
39	BE	54	GLN
39	BE	66	HIS
39	BE	83	ASP
39	BE	88	GLY
39	BE	117	MET
39	BE	185	LYS
40	BF	3	GLU
40	BF	11	VAL
40	BF	16	GLY
40	BF	21	ALA
40	BF	26	ALA
40	BF	66	PRO
40	BF	132	VAL
40	BF	133	ASN
41	BG	14	GLU
41	BG	77	ILE
41	BG	82	LEU
41	BG	84	LYS
41	BG	96	ARG
42	BH	8	PRO
42	BH	10	PRO
42	BH	16	SER
42	BH	24	VAL
42	BH	92	ILE
42	BH	138	LYS
42	BH	154	PRO
42	BH	155	SER
42	BH	156	ALA
42	BH	159	GLU
42	BH	165	ALA
42	BH	170	ARG
43	BI	15	VAL

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Mol	Chain	Res	Type
43	BI	30	LEU
43	BI	82	ARG
43	BI	87	LYS
43	BI	88	ILE
43	BI	92	VAL
43	BI	111	PRO
43	BI	113	ARG
43	BI	133	HIS
45	BN	18	ALA
45	BN	37	LYS
45	BN	42	TRP
45	BN	57	ALA
45	BN	58	ASP
45	BN	60	ILE
45	BN	63	THR
45	BN	126	PRO
45	BN	134	ARG
46	BO	26	LYS
46	BO	101	PRO
47	BP	10	PRO
47	BP	14	LYS
47	BP	18	ARG
47	BP	19	VAL
47	BP	25	SER
47	BP	35	HIS
47	BP	40	SER
47	BP	47	ASP
47	BP	57	THR
47	BP	64	LYS
47	BP	67	MET
47	BP	90	ARG
47	BP	98	GLU
47	BP	104	GLY
47	BP	107	LYS
47	BP	117	GLU
47	BP	141	ALA
48	BQ	18	LYS
48	BQ	20	ALA
48	BQ	110	THR
48	BQ	134	ARG
49	BR	5	LYS
49	BR	8	ARG

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Mol	Chain	Res	Type
49	BR	12	ARG
49	BR	45	ARG
49	BR	58	GLY
49	BR	86	ARG
49	BR	88	ARG
50	BS	13	ARG
50	BS	17	ARG
50	BS	19	LYS
50	BS	35	ILE
50	BS	59	LYS
50	BS	62	LYS
50	BS	88	ASP
50	BS	97	ARG
50	BS	101	LEU
50	BS	103	GLU
51	BT	2	ASN
51	BT	3	ARG
51	BT	30	VAL
51	BT	32	TYR
51	BT	35	LYS
51	BT	37	GLY
51	BT	40	THR
51	BT	41	ARG
51	BT	58	ASN
51	BT	80	SER
51	BT	88	ILE
51	BT	107	ASP
51	BT	115	ARG
52	BU	91	ASP
53	BV	18	LEU
53	BV	23	GLU
53	BV	24	LYS
53	BV	36	PRO
53	BV	46	VAL
53	BV	50	PRO
53	BV	53	GLU
53	BV	100	ARG
54	BW	11	ARG
54	BW	65	LEU
54	BW	66	GLU
54	BW	67	ASP
54	BW	111	HIS

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Mol	Chain	Res	Type
56	BY	17	SER
56	BY	24	VAL
56	BY	27	VAL
56	BY	50	ARG
56	BY	56	PRO
56	BY	62	GLU
56	BY	77	PRO
56	BY	78	ALA
56	BY	82	PRO
56	BY	90	LEU
56	BY	99	CYS
56	BY	100	ALA
57	BZ	65	GLN
57	BZ	78	LYS
57	BZ	138	GLU
57	BZ	147	GLY
57	BZ	150	LEU
57	BZ	152	ALA
2	CB	75	LYS
2	CB	83	MET
2	CB	101	MET
2	CB	150	SER
2	CB	238	LEU
3	CC	53	ALA
3	CC	79	ARG
3	CC	104	GLN
3	CC	156	ARG
3	CC	206	GLU
3	CC	207	VAL
4	CD	5	ILE
4	CD	40	PRO
4	CD	48	ALA
4	CD	151	LYS
5	CE	16	THR
5	CE	73	ASN
6	CF	40	VAL
6	CF	43	LEU
6	CF	69	GLU
6	CF	70	ASP
6	CF	87	ARG
7	CG	77	SER
8	CH	68	ARG

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Mol	Chain	Res	Type
9	CI	25	LYS
9	CI	29	ASN
9	CI	32	ASP
9	CI	111	ARG
10	CJ	57	LYS
11	CK	122	LYS
12	CL	3	THR
12	CL	88	LYS
12	CL	89	ASP
12	CL	112	LYS
13	CM	4	ILE
13	CM	36	LYS
13	CM	59	TYR
13	CM	83	ASP
13	CM	99	ARG
13	CM	106	ASN
13	CM	108	ARG
16	CP	49	LEU
16	CP	81	ARG
17	CQ	34	LYS
17	CQ	68	ARG
18	CR	25	THR
18	CR	37	VAL
18	CR	45	SER
18	CR	82	THR
19	CS	10	PHE
19	CS	40	ILE
19	CS	45	VAL
19	CS	65	ASN
19	CS	70	LYS
20	CT	10	LEU
20	CT	48	LYS
21	CU	3	LYS
24	CY	11	PRO
25	D0	73	GLY
26	D1	53	VAL
26	D1	76	ARG
26	D1	83	GLU
26	D1	86	SER
27	D2	43	GLN
27	D2	47	ASN
29	D4	26	SER

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Mol	Chain	Res	Type
29	D4	35	VAL
29	D4	47	GLN
29	D4	48	ARG
29	D4	50	VAL
30	D5	4	HIS
30	D5	38	ALA
30	D5	55	ARG
30	D5	57	VAL
31	D6	23	THR
31	D6	31	PRO
31	D6	49	HIS
33	D8	30	ARG
33	D8	31	HIS
33	D8	34	TRP
33	D8	35	GLN
33	D8	49	VAL
33	D8	64	TYR
37	DC	25	ALA
37	DC	37	PHE
37	DC	55	ASP
37	DC	68	LEU
37	DC	100	ILE
37	DC	133	PRO
37	DC	140	PRO
37	DC	171	ILE
37	DC	174	PRO
37	DC	182	PRO
37	DC	201	PRO
37	DC	216	THR
38	DD	3	VAL
38	DD	25	THR
38	DD	32	SER
38	DD	36	PRO
38	DD	122	ASP
38	DD	123	ALA
38	DD	127	VAL
38	DD	169	GLU
38	DD	268	ARG
38	DD	271	ILE
39	DE	53	PRO
39	DE	54	GLN
39	DE	66	HIS

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Mol	Chain	Res	Type
39	DE	83	ASP
39	DE	88	GLY
39	DE	117	MET
39	DE	185	LYS
39	DE	186	GLY
40	DF	3	GLU
40	DF	11	VAL
40	DF	16	GLY
40	DF	21	ALA
40	DF	26	ALA
40	DF	66	PRO
40	DF	132	VAL
41	DG	14	GLU
41	DG	82	LEU
41	DG	84	LYS
41	DG	96	ARG
41	DG	97	ASP
41	DG	126	ASP
41	DG	142	PRO
42	DH	8	PRO
42	DH	10	PRO
42	DH	16	SER
42	DH	24	VAL
42	DH	92	ILE
42	DH	138	LYS
42	DH	154	PRO
42	DH	155	SER
42	DH	156	ALA
42	DH	159	GLU
42	DH	165	ALA
42	DH	170	ARG
43	DI	30	LEU
43	DI	82	ARG
43	DI	87	LYS
43	DI	88	ILE
43	DI	111	PRO
43	DI	113	ARG
43	DI	133	HIS
45	DN	18	ALA
45	DN	37	LYS
45	DN	42	TRP
45	DN	57	ALA

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Mol	Chain	Res	Type
45	DN	58	ASP
45	DN	60	ILE
45	DN	63	THR
45	DN	126	PRO
45	DN	134	ARG
46	DO	26	LYS
46	DO	101	PRO
47	DP	10	PRO
47	DP	14	LYS
47	DP	18	ARG
47	DP	19	VAL
47	DP	25	SER
47	DP	35	HIS
47	DP	40	SER
47	DP	47	ASP
47	DP	57	THR
47	DP	64	LYS
47	DP	67	MET
47	DP	90	ARG
47	DP	98	GLU
47	DP	104	GLY
47	DP	107	LYS
47	DP	117	GLU
47	DP	141	ALA
48	DQ	18	LYS
48	DQ	20	ALA
48	DQ	110	THR
48	DQ	134	ARG
49	DR	5	LYS
49	DR	45	ARG
49	DR	58	GLY
49	DR	86	ARG
50	DS	13	ARG
50	DS	17	ARG
50	DS	19	LYS
50	DS	35	ILE
50	DS	59	LYS
50	DS	62	LYS
50	DS	88	ASP
50	DS	97	ARG
50	DS	101	LEU
50	DS	103	GLU

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Mol	Chain	Res	Type
51	DT	2	ASN
51	DT	3	ARG
51	DT	30	VAL
51	DT	32	TYR
51	DT	35	LYS
51	DT	37	GLY
51	DT	40	THR
51	DT	41	ARG
51	DT	58	ASN
51	DT	80	SER
51	DT	88	ILE
51	DT	107	ASP
51	DT	115	ARG
52	DU	91	ASP
53	DV	18	LEU
53	DV	23	GLU
53	DV	24	LYS
53	DV	36	PRO
53	DV	46	VAL
53	DV	50	PRO
53	DV	100	ARG
54	DW	11	ARG
54	DW	65	LEU
54	DW	66	GLU
54	DW	67	ASP
54	DW	111	HIS
56	DY	17	SER
56	DY	24	VAL
56	DY	27	VAL
56	DY	50	ARG
56	DY	56	PRO
56	DY	62	GLU
56	DY	77	PRO
56	DY	78	ALA
56	DY	90	LEU
56	DY	99	CYS
56	DY	100	ALA
57	DZ	31	ARG
57	DZ	38	TYR
57	DZ	39	VAL
57	DZ	65	GLN
57	DZ	93	ASP

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Mol	Chain	Res	Type
57	DZ	96	VAL
57	DZ	113	ALA
57	DZ	119	GLU
57	DZ	138	GLU
57	DZ	151	HIS
57	DZ	152	ALA
2	AB	19	HIS
2	AB	153	ARG
2	AB	169	LYS
2	AB	204	ASN
2	AB	227	GLY
2	AB	235	SER
3	AC	12	LEU
3	AC	26	LYS
3	AC	45	LYS
3	AC	61	ALA
3	AC	74	GLY
3	AC	133	ALA
3	AC	145	GLY
4	AD	3	ARG
4	AD	22	LYS
4	AD	51	PRO
4	AD	69	GLY
4	AD	110	PHE
4	AD	193	ASP
5	AE	20	GLN
5	AE	104	ALA
5	AE	124	GLY
5	AE	149	GLU
5	AE	154	GLY
6	AF	89	MET
7	AG	19	GLY
7	AG	37	ASN
7	AG	39	ALA
7	AG	52	GLU
7	AG	78	ARG
8	AH	2	LEU
8	AH	68	ARG
9	AI	12	GLU
9	AI	30	GLY
9	AI	32	ASP
9	AI	40	LEU

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Mol	Chain	Res	Type
9	AI	44	VAL
9	AI	95	LYS
10	AJ	59	SER
11	AK	39	PRO
11	AK	45	GLY
11	AK	105	VAL
11	AK	106	LYS
11	AK	127	LYS
12	AL	71	GLY
12	AL	86	ARG
12	AL	118	GLY
13	AM	5	ALA
13	AM	32	GLU
13	AM	53	VAL
13	AM	100	GLY
13	AM	112	GLY
13	AM	117	VAL
14	AN	34	TYR
15	AO	73	GLU
15	AO	80	ALA
15	AO	85	LEU
15	AO	86	GLY
16	AP	78	GLY
17	AQ	12	SER
17	AQ	33	GLY
17	AQ	80	GLY
17	AQ	99	SER
18	AR	84	LYS
18	AR	87	ARG
19	AS	11	VAL
19	AS	28	LYS
19	AS	29	ARG
19	AS	30	LEU
19	AS	42	PRO
20	AT	71	THR
20	AT	73	HIS
20	AT	96	GLY
21	AU	21	TYR
24	AY	78	LYS
25	B0	9	SER
26	B1	30	VAL
29	B4	43	TYR

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Mol	Chain	Res	Type
29	B4	45	GLY
29	B4	52	THR
29	B4	54	GLY
31	B6	20	ASN
31	B6	22	ALA
31	B6	33	LYS
32	B7	48	LYS
33	B8	51	ALA
33	B8	56	GLU
34	B9	11	CYS
37	BC	60	GLY
37	BC	76	ALA
37	BC	135	GLY
37	BC	146	GLY
37	BC	147	PHE
37	BC	168	THR
37	BC	175	VAL
37	BC	205	LYS
37	BC	209	LEU
38	BD	27	THR
38	BD	79	VAL
38	BD	122	ASP
38	BD	236	GLY
38	BD	263	ARG
38	BD	268	ARG
39	BE	29	GLY
39	BE	57	LYS
39	BE	69	LYS
39	BE	77	ILE
39	BE	98	PRO
39	BE	130	GLY
39	BE	131	ALA
39	BE	186	GLY
39	BE	187	ALA
40	BF	5	ALA
40	BF	69	HIS
40	BF	167	ALA
40	BF	200	GLU
41	BG	63	ILE
41	BG	64	THR
41	BG	87	PRO
41	BG	101	ILE

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Mol	Chain	Res	Type
41	BG	115	ARG
41	BG	124	SER
41	BG	126	ASP
41	BG	142	PRO
41	BG	168	GLU
41	BG	181	ARG
42	BH	9	ILE
42	BH	15	VAL
42	BH	59	ARG
42	BH	81	GLU
42	BH	84	SER
42	BH	91	GLY
42	BH	160	LYS
43	BI	13	GLY
43	BI	54	GLN
43	BI	69	LYS
43	BI	86	THR
43	BI	123	LEU
45	BN	4	TYR
45	BN	64	GLY
45	BN	69	GLN
45	BN	135	PRO
46	BO	27	GLY
46	BO	48	PRO
46	BO	115	VAL
47	BP	12	ALA
47	BP	33	ARG
47	BP	34	GLY
47	BP	39	LYS
47	BP	49	ARG
47	BP	56	SER
47	BP	65	ARG
47	BP	89	ALA
47	BP	103	ALA
47	BP	109	GLY
47	BP	147	LEU
48	BQ	28	ALA
48	BQ	30	GLY
48	BQ	62	GLY
48	BQ	88	GLY
49	BR	14	SER
49	BR	50	HIS

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Mol	Chain	Res	Type
49	BR	59	ASP
49	BR	117	VAL
50	BS	42	ASP
50	BS	63	THR
50	BS	78	LEU
50	BS	90	GLY
50	BS	98	VAL
50	BS	100	ALA
50	BS	104	GLY
50	BS	105	ALA
51	BT	57	PHE
51	BT	83	ILE
51	BT	90	GLN
52	BU	9	VAL
53	BV	2	PHE
53	BV	31	ALA
53	BV	79	VAL
54	BW	59	VAL
54	BW	63	ASP
55	BX	19	ALA
56	BY	7	VAL
56	BY	22	GLY
56	BY	29	GLU
56	BY	55	TYR
56	BY	80	GLY
57	BZ	39	VAL
57	BZ	47	VAL
57	BZ	93	ASP
57	BZ	108	PRO
57	BZ	115	GLY
57	BZ	119	GLU
57	BZ	151	HIS
57	BZ	156	LYS
57	BZ	179	ASP
2	CB	19	HIS
2	CB	119	GLU
2	CB	153	ARG
2	CB	169	LYS
2	CB	204	ASN
2	CB	227	GLY
2	CB	235	SER
3	CC	12	LEU

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Mol	Chain	Res	Type
3	CC	26	LYS
3	CC	45	LYS
3	CC	61	ALA
3	CC	145	GLY
4	CD	3	ARG
4	CD	22	LYS
4	CD	51	PRO
4	CD	67	ILE
4	CD	69	GLY
4	CD	110	PHE
4	CD	193	ASP
5	CE	20	GLN
5	CE	104	ALA
5	CE	124	GLY
5	CE	149	GLU
5	CE	154	GLY
6	CF	89	MET
7	CG	19	GLY
7	CG	37	ASN
7	CG	39	ALA
7	CG	52	GLU
7	CG	78	ARG
8	CH	2	LEU
8	CH	97	VAL
9	CI	12	GLU
9	CI	30	GLY
9	CI	40	LEU
9	CI	44	VAL
9	CI	95	LYS
10	CJ	59	SER
11	CK	45	GLY
11	CK	105	VAL
11	CK	106	LYS
11	CK	127	LYS
12	CL	71	GLY
12	CL	86	ARG
12	CL	118	GLY
13	CM	5	ALA
13	CM	32	GLU
13	CM	53	VAL
13	CM	100	GLY
13	CM	112	GLY

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Mol	Chain	Res	Type
13	CM	117	VAL
14	CN	22	THR
14	CN	34	TYR
15	CO	73	GLU
15	CO	80	ALA
15	CO	85	LEU
15	CO	86	GLY
16	CP	28	ARG
16	CP	78	GLY
17	CQ	12	SER
17	CQ	33	GLY
17	CQ	80	GLY
17	CQ	99	SER
18	CR	84	LYS
18	CR	87	ARG
19	CS	11	VAL
19	CS	28	LYS
19	CS	29	ARG
19	CS	30	LEU
19	CS	42	PRO
20	CT	71	THR
20	CT	96	GLY
21	CU	21	TYR
24	CY	13	PRO
25	D0	9	SER
26	D1	75	GLU
27	D2	44	LEU
27	D2	70	GLN
29	D4	43	TYR
29	D4	45	GLY
29	D4	52	THR
29	D4	54	GLY
31	D6	20	ASN
31	D6	22	ALA
31	D6	33	LYS
32	D7	48	LYS
33	D8	51	ALA
34	D9	11	CYS
37	DC	60	GLY
37	DC	76	ALA
37	DC	135	GLY
37	DC	146	GLY

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Mol	Chain	Res	Type
37	DC	147	PHE
37	DC	168	THR
37	DC	175	VAL
37	DC	205	LYS
37	DC	209	LEU
38	DD	27	THR
38	DD	236	GLY
38	DD	263	ARG
39	DE	29	GLY
39	DE	57	LYS
39	DE	69	LYS
39	DE	77	ILE
39	DE	93	VAL
39	DE	98	PRO
39	DE	130	GLY
39	DE	131	ALA
39	DE	187	ALA
39	DE	201	THR
40	DF	5	ALA
40	DF	69	HIS
40	DF	133	ASN
40	DF	167	ALA
40	DF	200	GLU
41	DG	52	ILE
41	DG	87	PRO
41	DG	137	GLU
41	DG	172	LEU
41	DG	180	PHE
41	DG	181	ARG
42	DH	9	ILE
42	DH	15	VAL
42	DH	59	ARG
42	DH	81	GLU
42	DH	84	SER
42	DH	91	GLY
42	DH	160	LYS
43	DI	13	GLY
43	DI	15	VAL
43	DI	69	LYS
43	DI	83	ALA
43	DI	86	THR
43	DI	92	VAL

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Mol	Chain	Res	Type
43	DI	96	ASP
43	DI	123	LEU
45	DN	4	TYR
45	DN	64	GLY
45	DN	69	GLN
45	DN	135	PRO
46	DO	27	GLY
46	DO	48	PRO
46	DO	115	VAL
47	DP	12	ALA
47	DP	33	ARG
47	DP	34	GLY
47	DP	39	LYS
47	DP	49	ARG
47	DP	56	SER
47	DP	65	ARG
47	DP	66	GLY
47	DP	89	ALA
47	DP	103	ALA
47	DP	109	GLY
47	DP	147	LEU
48	DQ	28	ALA
48	DQ	30	GLY
48	DQ	62	GLY
48	DQ	88	GLY
48	DQ	135	ASP
49	DR	8	ARG
49	DR	50	HIS
49	DR	59	ASP
49	DR	88	ARG
49	DR	117	VAL
50	DS	42	ASP
50	DS	63	THR
50	DS	78	LEU
50	DS	90	GLY
50	DS	98	VAL
50	DS	100	ALA
50	DS	104	GLY
50	DS	105	ALA
51	DT	57	PHE
51	DT	83	ILE
51	DT	90	GLN

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Mol	Chain	Res	Type
52	DU	9	VAL
52	DU	62	ILE
53	DV	2	PHE
53	DV	31	ALA
53	DV	53	GLU
53	DV	79	VAL
54	DW	59	VAL
54	DW	63	ASP
54	DW	93	ALA
55	DX	19	ALA
56	DY	7	VAL
56	DY	22	GLY
56	DY	29	GLU
56	DY	55	TYR
56	DY	80	GLY
56	DY	82	PRO
57	DZ	80	ARG
57	DZ	108	PRO
57	DZ	128	VAL
57	DZ	180	VAL
2	AB	14	GLY
2	AB	95	GLN
2	AB	119	GLU
3	AC	4	LYS
3	AC	22	TRP
3	AC	60	ALA
3	AC	75	VAL
3	AC	81	GLY
3	AC	99	VAL
3	AC	181	ASN
4	AD	67	ILE
4	AD	150	GLU
4	AD	200	GLU
5	AE	14	ARG
5	AE	21	ALA
5	AE	49	PRO
5	AE	105	VAL
5	AE	108	ALA
7	AG	14	PRO
7	AG	153	HIS
9	AI	34	ASN
9	AI	89	ASN

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Mol	Chain	Res	Type
9	AI	100	GLY
11	AK	62	GLN
11	AK	89	ALA
13	AM	14	ARG
15	AO	34	LEU
16	AP	9	PHE
16	AP	28	ARG
17	AQ	4	LYS
18	AR	60	ALA
19	AS	25	LYS
19	AS	43	GLU
20	AT	97	ALA
20	AT	99	LEU
26	B1	45	ASN
26	B1	69	LYS
27	B2	69	ARG
27	B2	71	ASN
29	B4	56	VAL
30	B5	51	TYR
31	B6	19	ARG
33	B8	17	THR
33	B8	40	GLU
37	BC	46	LYS
37	BC	63	SER
37	BC	89	ALA
37	BC	142	ALA
37	BC	169	GLY
37	BC	181	PRO
37	BC	202	GLU
37	BC	221	SER
38	BD	134	ARG
38	BD	246	PRO
39	BE	56	PRO
39	BE	76	ARG
39	BE	93	VAL
39	BE	201	THR
40	BF	2	LYS
40	BF	24	LEU
40	BF	25	PRO
40	BF	68	LYS
40	BF	86	GLY
40	BF	127	GLU

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Mol	Chain	Res	Type
40	BF	197	ASP
41	BG	79	ASN
41	BG	105	LYS
41	BG	167	GLU
42	BH	12	PRO
42	BH	21	PRO
42	BH	126	PRO
42	BH	157	TYR
43	BI	83	ALA
43	BI	96	ASP
47	BP	31	ALA
47	BP	66	GLY
47	BP	106	LEU
48	BQ	2	LEU
48	BQ	19	GLY
48	BQ	21	THR
48	BQ	135	ASP
49	BR	85	PRO
49	BR	106	GLY
50	BS	53	SER
50	BS	67	ARG
50	BS	72	ALA
50	BS	74	ALA
50	BS	107	GLU
51	BT	26	ASP
51	BT	36	GLU
51	BT	106	SER
51	BT	129	ARG
52	BU	62	ILE
52	BU	66	ASN
52	BU	92	ARG
52	BU	93	LYS
53	BV	3	ALA
54	BW	93	ALA
56	BY	26	LYS
56	BY	54	LYS
57	BZ	166	SER
2	CB	14	GLY
2	CB	108	ILE
3	CC	22	TRP
3	CC	60	ALA
3	CC	74	GLY

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Mol	Chain	Res	Type
3	CC	75	VAL
3	CC	81	GLY
3	CC	99	VAL
3	CC	133	ALA
3	CC	181	ASN
4	CD	150	GLU
4	CD	192	GLU
4	CD	200	GLU
5	CE	14	ARG
5	CE	21	ALA
5	CE	49	PRO
7	CG	14	PRO
7	CG	153	HIS
8	CH	27	PRO
9	CI	34	ASN
9	CI	89	ASN
9	CI	100	GLY
11	CK	39	PRO
11	CK	62	GLN
11	CK	89	ALA
12	CL	98	VAL
13	CM	14	ARG
15	CO	34	LEU
17	CQ	4	LYS
17	CQ	40	LYS
18	CR	60	ALA
19	CS	25	LYS
19	CS	43	GLU
20	CT	73	HIS
20	CT	99	LEU
26	D1	28	GLY
26	D1	65	SER
29	D4	56	VAL
30	D5	51	TYR
31	D6	19	ARG
33	D8	17	THR
33	D8	40	GLU
33	D8	56	GLU
37	DC	46	LYS
37	DC	63	SER
37	DC	89	ALA
37	DC	142	ALA

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Mol	Chain	Res	Type
37	DC	169	GLY
37	DC	181	PRO
37	DC	202	GLU
37	DC	221	SER
38	DD	134	ARG
38	DD	162	SER
38	DD	198	ASN
38	DD	239	ARG
38	DD	246	PRO
39	DE	56	PRO
39	DE	76	ARG
40	DF	2	LYS
40	DF	24	LEU
40	DF	25	PRO
40	DF	115	ALA
40	DF	127	GLU
40	DF	197	ASP
41	DG	124	SER
41	DG	150	ASP
41	DG	155	MET
42	DH	12	PRO
42	DH	21	PRO
42	DH	126	PRO
42	DH	157	TYR
43	DI	54	GLN
47	DP	31	ALA
47	DP	106	LEU
48	DQ	2	LEU
48	DQ	19	GLY
48	DQ	21	THR
49	DR	14	SER
49	DR	85	PRO
49	DR	106	GLY
50	DS	53	SER
50	DS	67	ARG
50	DS	72	ALA
50	DS	74	ALA
50	DS	85	VAL
50	DS	107	GLU
51	DT	36	GLU
51	DT	106	SER
51	DT	129	ARG

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Mol	Chain	Res	Type
52	DU	66	ASN
52	DU	92	ARG
56	DY	54	LYS
56	DY	81	LYS
57	DZ	3	TYR
57	DZ	6	LYS
57	DZ	30	ASN
57	DZ	82	ARG
57	DZ	148	ASP
57	DZ	165	VAL
2	AB	108	ILE
2	AB	131	PRO
2	AB	220	ASP
2	AB	230	VAL
3	AC	103	VAL
3	AC	154	SER
4	AD	7	PRO
4	AD	192	GLU
5	AE	132	ALA
5	AE	140	ARG
5	AE	148	VAL
6	AF	82	ARG
7	AG	20	ASP
8	AH	27	PRO
9	AI	56	LEU
11	AK	25	TYR
11	AK	107	SER
12	AL	98	VAL
12	AL	123	LYS
13	AM	7	VAL
14	AN	18	VAL
14	AN	52	GLN
15	AO	24	SER
16	AP	29	ASP
17	AQ	40	LYS
17	AQ	66	SER
17	AQ	97	SER
19	AS	59	PRO
19	AS	64	GLU
19	AS	86	GLU
20	AT	28	ALA
25	B0	57	PHE

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Mol	Chain	Res	Type
29	B4	5	ILE
29	B4	30	GLU
29	B4	41	PRO
31	B6	43	CYS
33	B8	41	ILE
34	B9	35	ARG
37	BC	67	GLY
37	BC	69	GLY
37	BC	77	ILE
37	BC	152	ILE
37	BC	167	LYS
37	BC	183	GLU
38	BD	26	LYS
38	BD	162	SER
38	BD	198	ASN
38	BD	245	PRO
39	BE	45	THR
40	BF	9	ILE
40	BF	54	ARG
40	BF	115	ALA
40	BF	122	LYS
40	BF	181	LEU
41	BG	10	LYS
41	BG	97	ASP
41	BG	117	PHE
41	BG	139	LEU
43	BI	78	THR
43	BI	115	ALA
43	BI	121	LYS
45	BN	133	GLN
47	BP	36	LYS
47	BP	108	LYS
47	BP	132	LYS
47	BP	140	ALA
49	BR	6	SER
49	BR	102	GLU
50	BS	14	VAL
50	BS	15	ARG
50	BS	85	VAL
51	BT	55	ASN
53	BV	16	PRO
55	BX	40	LYS

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Mol	Chain	Res	Type
56	BY	31	LEU
56	BY	39	VAL
56	BY	81	LYS
57	BZ	62	PRO
57	BZ	82	ARG
2	CB	95	GLN
2	CB	113	HIS
2	CB	131	PRO
2	CB	220	ASP
2	CB	230	VAL
3	CC	4	LYS
3	CC	103	VAL
4	CD	7	PRO
4	CD	186	LEU
5	CE	105	VAL
5	CE	108	ALA
5	CE	132	ALA
5	CE	140	ARG
5	CE	148	VAL
7	CG	20	ASP
8	CH	134	ILE
9	CI	56	LEU
11	CK	25	TYR
11	CK	64	ALA
11	CK	107	SER
12	CL	43	LYS
12	CL	102	TYR
12	CL	123	LYS
13	CM	7	VAL
13	CM	55	ARG
14	CN	18	VAL
14	CN	48	ALA
14	CN	52	GLN
15	CO	24	SER
16	CP	9	PHE
16	CP	29	ASP
17	CQ	30	PRO
17	CQ	66	SER
17	CQ	97	SER
18	CR	61	LYS
19	CS	59	PRO
19	CS	86	GLU

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Mol	Chain	Res	Type
20	CT	28	ALA
20	CT	97	ALA
25	D0	57	PHE
25	D0	83	PRO
29	D4	5	ILE
29	D4	30	GLU
29	D4	41	PRO
31	D6	43	CYS
33	D8	41	ILE
34	D9	35	ARG
37	DC	67	GLY
37	DC	69	GLY
37	DC	77	ILE
37	DC	152	ILE
37	DC	167	LYS
37	DC	183	GLU
38	DD	12	SER
38	DD	26	LYS
38	DD	79	VAL
38	DD	210	GLY
38	DD	245	PRO
39	DE	45	THR
40	DF	9	ILE
40	DF	68	LYS
40	DF	181	LEU
41	DG	29	TRP
41	DG	117	PHE
41	DG	140	ILE
43	DI	115	ALA
43	DI	121	LYS
45	DN	133	GLN
47	DP	17	LYS
47	DP	36	LYS
47	DP	108	LYS
47	DP	132	LYS
47	DP	140	ALA
49	DR	102	GLU
50	DS	14	VAL
50	DS	15	ARG
50	DS	93	LYS
51	DT	26	ASP
51	DT	55	ASN

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Mol	Chain	Res	Type
52	DU	93	LYS
53	DV	3	ALA
53	DV	16	PRO
54	DW	58	ALA
55	DX	40	LYS
56	DY	26	LYS
56	DY	31	LEU
56	DY	39	VAL
57	DZ	37	VAL
57	DZ	112	ARG
57	DZ	130	PRO
57	DZ	136	PHE
57	DZ	156	LYS
57	DZ	184	ALA
2	AB	8	LYS
2	AB	26	PRO
2	AB	106	LYS
2	AB	113	HIS
2	AB	159	PRO
2	AB	226	ARG
2	AB	228	GLY
2	AB	240	GLN
3	AC	111	LEU
4	AD	58	LEU
4	AD	73	ARG
4	AD	178	VAL
4	AD	186	LEU
6	AF	12	PRO
6	AF	71	ARG
8	AH	134	ILE
10	AJ	92	THR
11	AK	64	ALA
11	AK	100	ALA
12	AL	43	LYS
13	AM	11	ARG
13	AM	12	ASN
13	AM	55	ARG
16	AP	26	ARG
16	AP	82	GLN
17	AQ	30	PRO
17	AQ	77	VAL
19	AS	14	HIS

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Mol	Chain	Res	Type
19	AS	62	ILE
20	AT	52	ALA
24	AY	28	ILE
25	B0	35	ASN
25	B0	83	PRO
29	B4	7	PRO
30	B5	37	LYS
31	B6	28	ARG
37	BC	90	GLY
37	BC	154	ARG
38	BD	210	GLY
38	BD	244	ARG
38	BD	272	ALA
39	BE	61	ARG
39	BE	72	VAL
40	BF	17	ARG
41	BG	52	ILE
42	BH	66	GLY
42	BH	69	ARG
42	BH	158	HIS
43	BI	106	GLY
47	BP	17	LYS
47	BP	38	GLN
47	BP	97	PRO
48	BQ	22	LYS
50	BS	24	LEU
50	BS	32	LEU
50	BS	93	LYS
51	BT	38	ASN
51	BT	126	ALA
52	BU	102	GLU
53	BV	35	LEU
54	BW	6	ILE
54	BW	58	ALA
55	BX	91	ALA
56	BY	42	VAL
57	BZ	31	ARG
57	BZ	81	ARG
2	CB	8	LYS
2	CB	26	PRO
2	CB	159	PRO
2	CB	171	ALA

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Mol	Chain	Res	Type
2	CB	226	ARG
2	CB	228	GLY
2	CB	240	GLN
3	CC	111	LEU
3	CC	154	SER
4	CD	58	LEU
4	CD	73	ARG
4	CD	102	ASP
4	CD	167	GLY
4	CD	178	VAL
6	CF	12	PRO
6	CF	71	ARG
6	CF	82	ARG
8	CH	50	ARG
12	CL	49	LEU
13	CM	12	ASN
16	CP	26	ARG
16	CP	82	GLN
17	CQ	77	VAL
19	CS	14	HIS
19	CS	62	ILE
19	CS	64	GLU
20	CT	52	ALA
25	D0	35	ASN
26	D1	82	LEU
29	D4	7	PRO
30	D5	37	LYS
31	D6	28	ARG
37	DC	90	GLY
37	DC	154	ARG
38	DD	244	ARG
38	DD	272	ALA
39	DE	61	ARG
39	DE	72	VAL
40	DF	17	ARG
40	DF	54	ARG
40	DF	86	GLY
40	DF	122	LYS
41	DG	143	GLU
41	DG	148	MET
42	DH	66	GLY
42	DH	69	ARG

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Mol	Chain	Res	Type
42	DH	158	HIS
43	DI	78	THR
43	DI	106	GLY
45	DN	78	TYR
46	DO	49	ARG
47	DP	38	GLN
47	DP	97	PRO
48	DQ	22	LYS
50	DS	24	LEU
50	DS	32	LEU
51	DT	38	ASN
51	DT	126	ALA
52	DU	90	VAL
52	DU	102	GLU
53	DV	35	LEU
54	DW	6	ILE
55	DX	91	ALA
56	DY	42	VAL
57	DZ	52	SER
57	DZ	131	ARG
2	AB	171	ALA
2	AB	183	PRO
2	AB	189	ASP
3	AC	174	PRO
4	AD	102	ASP
4	AD	167	GLY
7	AG	41	ARG
11	AK	49	GLY
12	AL	20	LYS
12	AL	102	TYR
13	AM	15	VAL
14	AN	14	PRO
14	AN	29	ARG
14	AN	48	ALA
18	AR	61	LYS
18	AR	64	ARG
42	BH	47	GLU
42	BH	93	GLY
43	BI	7	GLU
45	BN	9	VAL
45	BN	78	TYR
46	BO	49	ARG

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Mol	Chain	Res	Type
47	BP	32	THR
50	BS	108	GLY
51	BT	24	PRO
52	BU	90	VAL
57	BZ	52	SER
2	CB	106	LYS
2	CB	183	PRO
2	CB	189	ASP
3	CC	174	PRO
7	CG	41	ARG
10	CJ	92	THR
11	CK	49	GLY
11	CK	100	ALA
13	CM	11	ARG
13	CM	15	VAL
14	CN	14	PRO
18	CR	64	ARG
37	DC	164	ARG
41	DG	10	LYS
41	DG	77	ILE
41	DG	110	ALA
41	DG	114	ILE
41	DG	171	ALA
42	DH	47	GLU
42	DH	93	GLY
43	DI	7	GLU
43	DI	51	ILE
45	DN	9	VAL
45	DN	125	GLY
47	DP	42	SER
50	DS	108	GLY
51	DT	24	PRO
57	DZ	101	PRO
57	DZ	137	ILE
2	AB	130	ARG
6	AF	81	ILE
7	AG	17	VAL
10	AJ	90	LEU
37	BC	149	ILE
37	BC	150	GLY
42	BH	45	VAL
42	BH	49	VAL

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Mol	Chain	Res	Type
43	BI	127	VAL
45	BN	40	PRO
45	BN	94	HIS
50	BS	65	VAL
52	BU	65	ILE
56	BY	49	VAL
56	BY	98	VAL
57	BZ	96	VAL
2	CB	130	ARG
7	CG	17	VAL
10	CJ	90	LEU
12	CL	87	VAL
20	CT	33	ILE
37	DC	64	LEU
37	DC	149	ILE
37	DC	150	GLY
42	DH	45	VAL
42	DH	49	VAL
43	DI	127	VAL
50	DS	65	VAL
56	DY	49	VAL
56	DY	98	VAL
57	DZ	94	GLU
57	DZ	158	PRO
57	DZ	166	SER
2	AB	167	PRO
6	AF	67	MET
12	AL	87	VAL
13	AM	85	GLY
15	AO	87	ILE
20	AT	33	ILE
33	B8	63	PRO
37	BC	64	LEU
37	BC	74	VAL
39	BE	196	VAL
40	BF	84	VAL
40	BF	126	VAL
41	BG	17	PRO
43	BI	51	ILE
45	BN	46	VAL
45	BN	125	GLY
52	BU	88	ILE

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Mol	Chain	Res	Type
3	CC	157	ILE
6	CF	67	MET
13	CM	85	GLY
15	CO	87	ILE
33	D8	38	GLY
37	DC	74	VAL
39	DE	196	VAL
40	DF	126	VAL
43	DI	80	PRO
52	DU	88	ILE
57	DZ	146	ILE
2	AB	66	GLY
3	AC	157	ILE
8	AH	103	VAL
9	AI	90	PRO
10	AJ	37	PRO
16	AP	53	VAL
28	B3	59	VAL
40	BF	4	VAL
40	BF	64	ILE
43	BI	21	VAL
43	BI	80	PRO
43	BI	107	VAL
47	BP	71	VAL
57	BZ	165	VAL
2	CB	167	PRO
6	CF	81	ILE
6	CF	96	PRO
8	CH	103	VAL
9	CI	90	PRO
10	CJ	37	PRO
12	CL	92	GLY
18	CR	50	ILE
28	D3	59	VAL
40	DF	4	VAL
40	DF	84	VAL
41	DG	127	GLY
43	DI	21	VAL
43	DI	107	VAL
45	DN	46	VAL
47	DP	71	VAL
51	DT	42	ILE

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Mol	Chain	Res	Type
52	DU	65	ILE
2	AB	165	VAL
4	AD	109	GLY
6	AF	96	PRO
13	AM	60	VAL
42	BH	117	PRO
53	BV	29	PRO
56	BY	38	ILE
57	BZ	158	PRO
2	CB	165	VAL
4	CD	109	GLY
13	CM	60	VAL
16	CP	53	VAL
26	D1	30	VAL
33	D8	63	PRO
42	DH	117	PRO
53	DV	29	PRO
56	DY	38	ILE
9	AI	41	VAL
18	AR	77	GLY
25	D0	66	VAL
45	DN	62	VAL
45	DN	94	HIS
43	BI	132	PRO
43	DI	132	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%)	190 (94%)	12 (6%)	18	50
2	CB	202/220 (92%)	190 (94%)	12 (6%)	18	50
3	AC	160/188 (85%)	150 (94%)	10 (6%)	16	48
3	CC	160/188 (85%)	150 (94%)	10 (6%)	16	48
4	AD	179/181 (99%)	162 (90%)	17 (10%)	8	32

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	CD	179/181 (99%)	162 (90%)	17 (10%)	8	32
5	AE	115/123 (94%)	103 (90%)	12 (10%)	7	28
5	CE	115/123 (94%)	104 (90%)	11 (10%)	8	32
6	AF	90/90 (100%)	85 (94%)	5 (6%)	19	52
6	CF	90/90 (100%)	86 (96%)	4 (4%)	25	59
7	AG	126/127 (99%)	121 (96%)	5 (4%)	28	61
7	CG	126/127 (99%)	121 (96%)	5 (4%)	28	61
8	AH	119/119 (100%)	109 (92%)	10 (8%)	10	38
8	CH	119/119 (100%)	109 (92%)	10 (8%)	10	38
9	AI	98/99 (99%)	88 (90%)	10 (10%)	7	29
9	CI	98/99 (99%)	88 (90%)	10 (10%)	7	29
10	AJ	88/92 (96%)	78 (89%)	10 (11%)	5	24
10	CJ	88/92 (96%)	78 (89%)	10 (11%)	5	24
11	AK	90/99 (91%)	84 (93%)	6 (7%)	15	47
11	CK	90/99 (91%)	84 (93%)	6 (7%)	15	47
12	AL	104/111 (94%)	98 (94%)	6 (6%)	18	51
12	CL	104/111 (94%)	98 (94%)	6 (6%)	18	51
13	AM	94/101 (93%)	85 (90%)	9 (10%)	8	32
13	CM	94/101 (93%)	84 (89%)	10 (11%)	6	27
14	AN	49/50 (98%)	45 (92%)	4 (8%)	10	39
14	CN	49/50 (98%)	45 (92%)	4 (8%)	10	39
15	AO	79/80 (99%)	72 (91%)	7 (9%)	9	34
15	CO	79/80 (99%)	72 (91%)	7 (9%)	9	34
16	AP	72/74 (97%)	69 (96%)	3 (4%)	26	60
16	CP	72/74 (97%)	67 (93%)	5 (7%)	14	45
17	AQ	94/97 (97%)	86 (92%)	8 (8%)	10	37
17	CQ	94/97 (97%)	86 (92%)	8 (8%)	10	37
18	AR	61/77 (79%)	59 (97%)	2 (3%)	33	65
18	CR	61/77 (79%)	59 (97%)	2 (3%)	33	65
19	AS	72/80 (90%)	63 (88%)	9 (12%)	4	21
19	CS	72/80 (90%)	63 (88%)	9 (12%)	4	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	AT	76/82 (93%)	68 (90%)	8 (10%)	6	28
20	CT	76/82 (93%)	67 (88%)	9 (12%)	5	23
21	AU	19/22 (86%)	17 (90%)	2 (10%)	6	28
21	CU	19/22 (86%)	17 (90%)	2 (10%)	6	28
24	AY	78/78 (100%)	42 (54%)	36 (46%)	0	0
24	CY	12/78 (15%)	9 (75%)	3 (25%)	0	3
25	B0	66/67 (98%)	61 (92%)	5 (8%)	12	42
25	D0	66/67 (98%)	61 (92%)	5 (8%)	12	42
26	B1	78/83 (94%)	68 (87%)	10 (13%)	4	20
26	D1	78/83 (94%)	68 (87%)	10 (13%)	4	20
27	B2	66/67 (98%)	59 (89%)	7 (11%)	6	27
27	D2	66/67 (98%)	56 (85%)	10 (15%)	3	14
28	B3	51/52 (98%)	39 (76%)	12 (24%)	1	4
28	D3	51/52 (98%)	39 (76%)	12 (24%)	1	4
29	B4	49/63 (78%)	40 (82%)	9 (18%)	1	9
29	D4	49/63 (78%)	41 (84%)	8 (16%)	2	12
30	B5	51/52 (98%)	45 (88%)	6 (12%)	5	23
30	D5	51/52 (98%)	45 (88%)	6 (12%)	5	23
31	B6	43/52 (83%)	37 (86%)	6 (14%)	3	17
31	D6	43/52 (83%)	37 (86%)	6 (14%)	3	17
32	B7	41/42 (98%)	34 (83%)	7 (17%)	2	11
32	D7	41/42 (98%)	35 (85%)	6 (15%)	3	16
33	B8	53/55 (96%)	44 (83%)	9 (17%)	2	11
33	D8	53/55 (96%)	44 (83%)	9 (17%)	2	11
34	B9	33/34 (97%)	32 (97%)	1 (3%)	36	66
34	D9	33/34 (97%)	32 (97%)	1 (3%)	36	66
37	BC	61/181 (34%)	57 (93%)	4 (7%)	15	47
37	DC	61/181 (34%)	57 (93%)	4 (7%)	15	47
38	BD	213/218 (98%)	173 (81%)	40 (19%)	1	9
38	DD	213/218 (98%)	173 (81%)	40 (19%)	1	9
39	BE	165/166 (99%)	143 (87%)	22 (13%)	4	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	DE	165/166 (99%)	143 (87%)	22 (13%)	4	19
40	BF	165/166 (99%)	140 (85%)	25 (15%)	3	14
40	DF	165/166 (99%)	140 (85%)	25 (15%)	3	14
41	BG	155/156 (99%)	140 (90%)	15 (10%)	8	32
41	DG	155/156 (99%)	138 (89%)	17 (11%)	6	26
42	BH	137/148 (93%)	120 (88%)	17 (12%)	4	21
42	DH	137/148 (93%)	120 (88%)	17 (12%)	4	21
43	BI	121/124 (98%)	104 (86%)	17 (14%)	3	17
43	DI	121/124 (98%)	101 (84%)	20 (16%)	2	12
45	BN	117/119 (98%)	95 (81%)	22 (19%)	1	9
45	DN	117/119 (98%)	96 (82%)	21 (18%)	2	9
46	BO	100/100 (100%)	95 (95%)	5 (5%)	22	55
46	DO	100/100 (100%)	94 (94%)	6 (6%)	17	50
47	BP	112/116 (97%)	81 (72%)	31 (28%)	0	2
47	DP	112/116 (97%)	82 (73%)	30 (27%)	0	2
48	BQ	111/111 (100%)	104 (94%)	7 (6%)	16	48
48	DQ	111/111 (100%)	104 (94%)	7 (6%)	16	48
49	BR	100/101 (99%)	87 (87%)	13 (13%)	4	20
49	DR	100/101 (99%)	85 (85%)	15 (15%)	3	15
50	BS	77/88 (88%)	64 (83%)	13 (17%)	2	11
50	DS	77/88 (88%)	64 (83%)	13 (17%)	2	11
51	BT	120/127 (94%)	100 (83%)	20 (17%)	2	11
51	DT	120/127 (94%)	101 (84%)	19 (16%)	2	13
52	BU	92/94 (98%)	84 (91%)	8 (9%)	9	36
52	DU	92/94 (98%)	82 (89%)	10 (11%)	6	26
53	BV	82/82 (100%)	67 (82%)	15 (18%)	2	9
53	DV	82/82 (100%)	68 (83%)	14 (17%)	2	11
54	BW	91/92 (99%)	77 (85%)	14 (15%)	2	14
54	DW	91/92 (99%)	78 (86%)	13 (14%)	3	16
55	BX	74/78 (95%)	63 (85%)	11 (15%)	3	15
55	DX	74/78 (95%)	63 (85%)	11 (15%)	3	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
56	BY	84/91 (92%)	71 (84%)	13 (16%)	2	14
56	DY	84/91 (92%)	71 (84%)	13 (16%)	2	14
57	BZ	163/179 (91%)	145 (89%)	18 (11%)	6	26
57	DZ	163/179 (91%)	144 (88%)	19 (12%)	5	23
All	All	9806/10588 (93%)	8644 (88%)	1162 (12%)	5	23

All (1162) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	17	PHE
2	AB	22	LYS
2	AB	96	ARG
2	AB	162	ILE
2	AB	169	LYS
2	AB	172	ILE
2	AB	178	ARG
2	AB	179	LYS
2	AB	185	ILE
2	AB	187	LEU
2	AB	217	ARG
3	AC	3	ASN
3	AC	5	ILE
3	AC	14	ILE
3	AC	46	GLU
3	AC	52	LEU
3	AC	82	GLU
3	AC	93	LYS
3	AC	94	LEU
3	AC	127	ARG
3	AC	156	ARG
4	AD	11	LEU
4	AD	50	ARG
4	AD	51	PRO
4	AD	58	LEU
4	AD	66	ARG
4	AD	76	ARG
4	AD	86	LYS
4	AD	105	VAL
4	AD	108	LEU
4	AD	110	PHE

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Mol	Chain	Res	Type
4	AD	114	ARG
4	AD	126	ILE
4	AD	129	ASN
4	AD	132	ARG
4	AD	135	LEU
4	AD	158	ILE
4	AD	193	ASP
5	AE	12	LEU
5	AE	20	GLN
5	AE	25	ARG
5	AE	41	VAL
5	AE	71	LEU
5	AE	75	THR
5	AE	76	ILE
5	AE	79	GLU
5	AE	91	LEU
5	AE	101	ILE
5	AE	130	ASN
5	AE	143	ARG
6	AF	30	LEU
6	AF	45	LEU
6	AF	52	ILE
6	AF	69	GLU
6	AF	87	ARG
7	AG	14	PRO
7	AG	57	GLU
7	AG	104	LEU
7	AG	113	GLU
7	AG	136	LYS
8	AH	1	MET
8	AH	10	LEU
8	AH	26	VAL
8	AH	27	PRO
8	AH	39	LEU
8	AH	52	ASP
8	AH	65	TYR
8	AH	102	ARG
8	AH	116	LYS
8	AH	121	ASP
9	AI	4	TYR
9	AI	10	ARG
9	AI	23	ASN

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Mol	Chain	Res	Type
9	AI	27	THR
9	AI	78	LYS
9	AI	95	LYS
9	AI	114	TYR
9	AI	118	LYS
9	AI	124	GLN
9	AI	128	ARG
10	AJ	4	ILE
10	AJ	13	HIS
10	AJ	16	LEU
10	AJ	29	ARG
10	AJ	38	ILE
10	AJ	50	ILE
10	AJ	58	ASP
10	AJ	62	HIS
10	AJ	96	ILE
10	AJ	97	GLU
11	AK	21	ILE
11	AK	38	ASN
11	AK	78	GLN
11	AK	82	VAL
11	AK	124	LYS
11	AK	125	PHE
12	AL	3	THR
12	AL	7	LEU
12	AL	49	LEU
12	AL	52	VAL
12	AL	67	ILE
12	AL	99	ARG
13	AM	50	GLU
13	AM	56	LEU
13	AM	64	TRP
13	AM	71	ARG
13	AM	74	VAL
13	AM	79	LYS
13	AM	82	MET
13	AM	93	ARG
13	AM	108	ARG
14	AN	4	LYS
14	AN	29	ARG
14	AN	41	ARG
14	AN	44	LEU

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Mol	Chain	Res	Type
15	AO	10	LYS
15	AO	26	GLU
15	AO	29	VAL
15	AO	31	LEU
15	AO	66	LEU
15	AO	82	ILE
15	AO	88	ARG
16	AP	2	VAL
16	AP	67	THR
16	AP	81	ARG
17	AQ	6	LEU
17	AQ	9	VAL
17	AQ	36	ILE
17	AQ	38	ARG
17	AQ	65	ILE
17	AQ	68	ARG
17	AQ	82	MET
17	AQ	87	LYS
18	AR	31	LEU
18	AR	83	GLU
19	AS	5	LEU
19	AS	6	LYS
19	AS	7	LYS
19	AS	14	HIS
19	AS	29	ARG
19	AS	41	VAL
19	AS	70	LYS
19	AS	80	TYR
19	AS	85	LYS
20	AT	24	LEU
20	AT	30	LYS
20	AT	45	GLN
20	AT	54	LYS
20	AT	62	LEU
20	AT	73	HIS
20	AT	84	LEU
20	AT	93	GLU
21	AU	22	ARG
21	AU	23	PRO
24	AY	2	PHE
24	AY	3	LYS
24	AY	7	HIS

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Mol	Chain	Res	Type
24	AY	8	ASP
24	AY	14	LYS
24	AY	15	THR
24	AY	16	GLU
24	AY	19	LYS
24	AY	21	LEU
24	AY	24	LEU
24	AY	25	LYS
24	AY	28	ILE
24	AY	31	THR
24	AY	33	LYS
24	AY	35	ASN
24	AY	39	LYS
24	AY	40	ARG
24	AY	44	THR
24	AY	47	LYS
24	AY	56	SER
24	AY	61	LEU
24	AY	62	GLU
24	AY	67	SER
24	AY	68	ASP
24	AY	72	LEU
24	AY	74	SER
24	AY	75	PHE
24	AY	77	PRO
24	AY	78	LYS
24	AY	79	THR
24	AY	81	ASN
24	AY	86	PRO
24	AY	91	ASN
24	AY	93	LYS
24	AY	94	LYS
24	AY	96	LEU
25	B0	19	LYS
25	B0	36	ILE
25	B0	70	GLN
25	B0	75	LEU
25	B0	84	LEU
26	B1	7	ILE
26	B1	27	GLU
26	B1	41	ARG
26	B1	52	ARG

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Mol	Chain	Res	Type
26	B1	57	GLU
26	B1	67	ILE
26	B1	70	VAL
26	B1	72	GLU
26	B1	73	LEU
26	B1	75	GLU
27	B2	3	LEU
27	B2	14	ARG
27	B2	44	LEU
27	B2	46	GLN
27	B2	53	LEU
27	B2	64	LEU
27	B2	68	ARG
28	B3	3	ARG
28	B3	4	LEU
28	B3	8	LEU
28	B3	10	LYS
28	B3	16	PRO
28	B3	30	ARG
28	B3	37	LEU
28	B3	40	THR
28	B3	43	ILE
28	B3	46	ASN
28	B3	56	VAL
28	B3	58	VAL
29	B4	8	LYS
29	B4	25	TYR
29	B4	32	TYR
29	B4	41	PRO
29	B4	46	GLN
29	B4	49	PHE
29	B4	51	ASP
29	B4	53	GLU
29	B4	55	ARG
30	B5	4	HIS
30	B5	6	VAL
30	B5	13	LYS
30	B5	35	GLU
30	B5	40	LYS
30	B5	58	LEU
31	B6	31	PRO
31	B6	33	LYS

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Mol	Chain	Res	Type
31	B6	42	TRP
31	B6	43	CYS
31	B6	45	LYS
31	B6	46	HIS
32	B7	1	MET
32	B7	4	THR
32	B7	8	ASN
32	B7	14	LYS
32	B7	36	GLN
32	B7	43	THR
32	B7	48	LYS
33	B8	8	LYS
33	B8	14	VAL
33	B8	33	ASN
33	B8	34	TRP
33	B8	35	GLN
33	B8	44	LYS
33	B8	47	LYS
33	B8	49	VAL
33	B8	61	LEU
34	B9	17	ILE
37	BC	46	LYS
37	BC	47	LEU
37	BC	59	ARG
37	BC	82	LYS
38	BD	26	LYS
38	BD	27	THR
38	BD	28	GLU
38	BD	31	LYS
38	BD	33	LEU
38	BD	34	VAL
38	BD	37	LEU
38	BD	44	ASN
38	BD	46	GLN
38	BD	49	ILE
38	BD	52	ARG
38	BD	54	ARG
38	BD	61	LEU
38	BD	64	ILE
38	BD	65	ILE
38	BD	76	PRO
38	BD	78	LYS

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Mol	Chain	Res	Type
38	BD	92	ILE
38	BD	94	LEU
38	BD	99	ASP
38	BD	101	GLU
38	BD	103	ARG
38	BD	106	ILE
38	BD	111	LEU
38	BD	113	VAL
38	BD	125	ILE
38	BD	126	GLN
38	BD	131	LEU
38	BD	147	LEU
38	BD	157	ARG
38	BD	166	GLN
38	BD	192	THR
38	BD	200	ASP
38	BD	205	VAL
38	BD	211	ARG
38	BD	212	SER
38	BD	239	ARG
38	BD	242	ARG
38	BD	257	LEU
38	BD	271	ILE
39	BE	4	ILE
39	BE	7	VAL
39	BE	9	VAL
39	BE	33	VAL
39	BE	41	LYS
39	BE	49	LEU
39	BE	78	LEU
39	BE	82	ARG
39	BE	93	VAL
39	BE	111	ARG
39	BE	116	VAL
39	BE	141	ILE
39	BE	144	ARG
39	BE	147	PRO
39	BE	174	ASP
39	BE	175	VAL
39	BE	178	GLU
39	BE	184	VAL
39	BE	195	LEU

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Mol	Chain	Res	Type
39	BE	196	VAL
39	BE	202	LYS
39	BE	203	LYS
40	BF	11	VAL
40	BF	19	GLU
40	BF	23	ASP
40	BF	24	LEU
40	BF	43	LYS
40	BF	50	SER
40	BF	65	TRP
40	BF	66	PRO
40	BF	67	GLN
40	BF	84	VAL
40	BF	88	VAL
40	BF	100	THR
40	BF	102	PRO
40	BF	110	LEU
40	BF	157	VAL
40	BF	158	THR
40	BF	161	GLU
40	BF	164	ARG
40	BF	175	THR
40	BF	182	ASN
40	BF	183	VAL
40	BF	192	LEU
40	BF	200	GLU
40	BF	201	VAL
40	BF	206	ILE
41	BG	29	TRP
41	BG	35	GLU
41	BG	45	GLU
41	BG	52	ILE
41	BG	63	ILE
41	BG	67	LYS
41	BG	71	THR
41	BG	81	LYS
41	BG	84	LYS
41	BG	91	ARG
41	BG	135	LEU
41	BG	148	MET
41	BG	155	MET
41	BG	165	THR

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Mol	Chain	Res	Type
41	BG	176	LEU
42	BH	7	LEU
42	BH	9	ILE
42	BH	10	PRO
42	BH	13	LYS
42	BH	41	MET
42	BH	46	GLU
42	BH	47	GLU
42	BH	54	ARG
42	BH	77	LYS
42	BH	86	GLU
42	BH	89	ILE
42	BH	97	ARG
42	BH	136	ILE
42	BH	143	GLN
42	BH	153	LYS
42	BH	163	TYR
42	BH	170	ARG
43	BI	2	LYS
43	BI	35	LEU
43	BI	52	ARG
43	BI	54	GLN
43	BI	58	LEU
43	BI	61	ARG
43	BI	81	VAL
43	BI	86	THR
43	BI	89	TYR
43	BI	93	THR
43	BI	105	HIS
43	BI	110	ASP
43	BI	123	LEU
43	BI	129	THR
43	BI	132	PRO
43	BI	133	HIS
43	BI	144	VAL
45	BN	4	TYR
45	BN	19	GLU
45	BN	23	LEU
45	BN	25	ARG
45	BN	28	THR
45	BN	32	THR
45	BN	34	LEU

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Mol	Chain	Res	Type
45	BN	38	HIS
45	BN	45	ASN
45	BN	48	MET
45	BN	55	VAL
45	BN	58	ASP
45	BN	63	THR
45	BN	67	LEU
45	BN	69	GLN
45	BN	78	TYR
45	BN	87	LEU
45	BN	89	LYS
45	BN	103	VAL
45	BN	119	ARG
45	BN	120	LEU
45	BN	131	GLN
46	BO	5	GLN
46	BO	32	TYR
46	BO	98	VAL
46	BO	109	LYS
46	BO	117	LEU
47	BP	7	ARG
47	BP	10	PRO
47	BP	13	ASN
47	BP	16	ARG
47	BP	18	ARG
47	BP	29	LYS
47	BP	30	THR
47	BP	36	LYS
47	BP	39	LYS
47	BP	41	ARG
47	BP	42	SER
47	BP	45	LEU
47	BP	48	PRO
47	BP	59	LEU
47	BP	61	ARG
47	BP	62	LEU
47	BP	64	LYS
47	BP	68	GLN
47	BP	75	ILE
47	BP	81	GLN
47	BP	83	VAL
47	BP	88	LEU

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Mol	Chain	Res	Type
47	BP	91	PHE
47	BP	98	GLU
47	BP	105	LEU
47	BP	110	TYR
47	BP	114	ILE
47	BP	115	LEU
47	BP	132	LYS
47	BP	136	GLU
47	BP	144	GLU
48	BQ	1	MET
48	BQ	55	VAL
48	BQ	75	THR
48	BQ	79	LEU
48	BQ	89	ASN
48	BQ	106	VAL
48	BQ	133	ARG
49	BR	8	ARG
49	BR	17	ARG
49	BR	28	LEU
49	BR	29	LEU
49	BR	34	ILE
49	BR	65	LEU
49	BR	74	LYS
49	BR	75	LEU
49	BR	76	VAL
49	BR	79	LEU
49	BR	94	TYR
49	BR	103	ARG
49	BR	118	GLU
50	BS	11	LYS
50	BS	15	ARG
50	BS	20	ARG
50	BS	24	LEU
50	BS	36	TYR
50	BS	54	LEU
50	BS	64	GLU
50	BS	89	ARG
50	BS	92	TYR
50	BS	97	ARG
50	BS	99	LYS
50	BS	101	LEU
50	BS	103	GLU

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Mol	Chain	Res	Type
51	BT	11	GLU
51	BT	13	ARG
51	BT	14	TYR
51	BT	27	THR
51	BT	29	ARG
51	BT	38	ASN
51	BT	42	ILE
51	BT	49	VAL
51	BT	53	ARG
51	BT	58	ASN
51	BT	59	THR
51	BT	70	VAL
51	BT	77	PRO
51	BT	82	LEU
51	BT	85	LYS
51	BT	93	ARG
51	BT	96	ARG
51	BT	121	ILE
51	BT	128	GLU
51	BT	132	LYS
52	BU	11	ARG
52	BU	20	LEU
52	BU	31	SER
52	BU	34	LYS
52	BU	60	LEU
52	BU	70	ARG
52	BU	74	LEU
52	BU	108	GLU
53	BV	1	MET
53	BV	5	VAL
53	BV	12	TYR
53	BV	18	LEU
53	BV	19	LYS
53	BV	39	LEU
53	BV	40	LEU
53	BV	47	VAL
53	BV	50	PRO
53	BV	57	VAL
53	BV	85	LYS
53	BV	92	THR
53	BV	95	LEU
53	BV	99	ILE

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Mol	Chain	Res	Type
53	BV	100	ARG
54	BW	11	ARG
54	BW	12	ILE
54	BW	19	LEU
54	BW	20	VAL
54	BW	21	VAL
54	BW	47	VAL
54	BW	50	VAL
54	BW	51	LEU
54	BW	61	ASN
54	BW	65	LEU
54	BW	67	ASP
54	BW	70	TYR
54	BW	100	THR
54	BW	107	LEU
55	BX	15	GLU
55	BX	27	THR
55	BX	28	PHE
55	BX	30	VAL
55	BX	35	THR
55	BX	48	LYS
55	BX	51	VAL
55	BX	57	LEU
55	BX	72	LYS
55	BX	80	ILE
55	BX	83	VAL
56	BY	7	VAL
56	BY	28	LYS
56	BY	29	GLU
56	BY	32	PRO
56	BY	38	ILE
56	BY	50	ARG
56	BY	55	TYR
56	BY	56	PRO
56	BY	62	GLU
56	BY	64	GLU
56	BY	77	PRO
56	BY	83	THR
56	BY	97	ARG
57	BZ	24	LEU
57	BZ	28	MET
57	BZ	35	ARG

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Mol	Chain	Res	Type
57	BZ	38	TYR
57	BZ	40	ASP
57	BZ	55	HIS
57	BZ	73	GLN
57	BZ	101	PRO
57	BZ	112	ARG
57	BZ	125	LEU
57	BZ	135	GLU
57	BZ	145	GLU
57	BZ	148	ASP
57	BZ	150	LEU
57	BZ	155	LEU
57	BZ	157	LEU
57	BZ	167	PRO
57	BZ	177	PRO
2	CB	12	GLU
2	CB	17	PHE
2	CB	22	LYS
2	CB	96	ARG
2	CB	162	ILE
2	CB	169	LYS
2	CB	172	ILE
2	CB	178	ARG
2	CB	179	LYS
2	CB	185	ILE
2	CB	187	LEU
2	CB	217	ARG
3	CC	3	ASN
3	CC	5	ILE
3	CC	14	ILE
3	CC	46	GLU
3	CC	52	LEU
3	CC	82	GLU
3	CC	93	LYS
3	CC	94	LEU
3	CC	127	ARG
3	CC	156	ARG
4	CD	11	LEU
4	CD	50	ARG
4	CD	51	PRO
4	CD	58	LEU
4	CD	66	ARG

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Mol	Chain	Res	Type
4	CD	76	ARG
4	CD	86	LYS
4	CD	105	VAL
4	CD	108	LEU
4	CD	110	PHE
4	CD	114	ARG
4	CD	126	ILE
4	CD	129	ASN
4	CD	132	ARG
4	CD	135	LEU
4	CD	158	ILE
4	CD	193	ASP
5	CE	12	LEU
5	CE	20	GLN
5	CE	25	ARG
5	CE	41	VAL
5	CE	71	LEU
5	CE	75	THR
5	CE	76	ILE
5	CE	79	GLU
5	CE	91	LEU
5	CE	101	ILE
5	CE	130	ASN
6	CF	30	LEU
6	CF	45	LEU
6	CF	69	GLU
6	CF	87	ARG
7	CG	14	PRO
7	CG	57	GLU
7	CG	104	LEU
7	CG	113	GLU
7	CG	136	LYS
8	CH	1	MET
8	CH	10	LEU
8	CH	26	VAL
8	CH	27	PRO
8	CH	39	LEU
8	CH	52	ASP
8	CH	65	TYR
8	CH	102	ARG
8	CH	116	LYS
8	CH	121	ASP

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Mol	Chain	Res	Type
9	CI	4	TYR
9	CI	10	ARG
9	CI	23	ASN
9	CI	27	THR
9	CI	78	LYS
9	CI	95	LYS
9	CI	114	TYR
9	CI	118	LYS
9	CI	124	GLN
9	CI	128	ARG
10	CJ	4	ILE
10	CJ	13	HIS
10	CJ	16	LEU
10	CJ	29	ARG
10	CJ	38	ILE
10	CJ	50	ILE
10	CJ	58	ASP
10	CJ	62	HIS
10	CJ	96	ILE
10	CJ	97	GLU
11	CK	21	ILE
11	CK	38	ASN
11	CK	39	PRO
11	CK	78	GLN
11	CK	124	LYS
11	CK	125	PHE
12	CL	3	THR
12	CL	7	LEU
12	CL	49	LEU
12	CL	52	VAL
12	CL	67	ILE
12	CL	99	ARG
13	CM	50	GLU
13	CM	56	LEU
13	CM	64	TRP
13	CM	71	ARG
13	CM	74	VAL
13	CM	79	LYS
13	CM	82	MET
13	CM	93	ARG
13	CM	108	ARG
13	CM	115	LYS

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Mol	Chain	Res	Type
14	CN	4	LYS
14	CN	29	ARG
14	CN	41	ARG
14	CN	44	LEU
15	CO	10	LYS
15	CO	26	GLU
15	CO	29	VAL
15	CO	31	LEU
15	CO	66	LEU
15	CO	82	ILE
15	CO	88	ARG
16	CP	2	VAL
16	CP	29	ASP
16	CP	67	THR
16	CP	73	LEU
16	CP	81	ARG
17	CQ	6	LEU
17	CQ	9	VAL
17	CQ	36	ILE
17	CQ	38	ARG
17	CQ	65	ILE
17	CQ	68	ARG
17	CQ	82	MET
17	CQ	87	LYS
18	CR	31	LEU
18	CR	83	GLU
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	14	HIS
19	CS	29	ARG
19	CS	41	VAL
19	CS	70	LYS
19	CS	80	TYR
19	CS	85	LYS
20	CT	24	LEU
20	CT	30	LYS
20	CT	45	GLN
20	CT	54	LYS
20	CT	62	LEU
20	CT	73	HIS
20	CT	75	ASN

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Mol	Chain	Res	Type
20	CT	84	LEU
20	CT	93	GLU
21	CU	22	ARG
21	CU	23	PRO
24	CY	2	PHE
24	CY	7	HIS
24	CY	14	LYS
25	D0	19	LYS
25	D0	36	ILE
25	D0	70	GLN
25	D0	75	LEU
25	D0	84	LEU
26	D1	6	GLU
26	D1	21	ARG
26	D1	39	LYS
26	D1	40	ARG
26	D1	46	LEU
26	D1	52	ARG
26	D1	57	GLU
26	D1	59	THR
26	D1	72	GLU
26	D1	75	GLU
27	D2	12	GLU
27	D2	14	ARG
27	D2	20	GLU
27	D2	32	LEU
27	D2	47	ASN
27	D2	53	LEU
27	D2	61	LEU
27	D2	64	LEU
27	D2	65	ASN
27	D2	68	ARG
28	D3	3	ARG
28	D3	4	LEU
28	D3	8	LEU
28	D3	10	LYS
28	D3	16	PRO
28	D3	30	ARG
28	D3	37	LEU
28	D3	40	THR
28	D3	43	ILE
28	D3	46	ASN

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Mol	Chain	Res	Type
28	D3	56	VAL
28	D3	58	VAL
29	D4	8	LYS
29	D4	25	TYR
29	D4	32	TYR
29	D4	46	GLN
29	D4	49	PHE
29	D4	51	ASP
29	D4	53	GLU
29	D4	55	ARG
30	D5	4	HIS
30	D5	6	VAL
30	D5	13	LYS
30	D5	35	GLU
30	D5	40	LYS
30	D5	58	LEU
31	D6	31	PRO
31	D6	33	LYS
31	D6	42	TRP
31	D6	43	CYS
31	D6	45	LYS
31	D6	46	HIS
32	D7	1	MET
32	D7	4	THR
32	D7	8	ASN
32	D7	14	LYS
32	D7	36	GLN
32	D7	48	LYS
33	D8	8	LYS
33	D8	14	VAL
33	D8	33	ASN
33	D8	34	TRP
33	D8	35	GLN
33	D8	44	LYS
33	D8	47	LYS
33	D8	49	VAL
33	D8	61	LEU
34	D9	17	ILE
37	DC	46	LYS
37	DC	47	LEU
37	DC	59	ARG
37	DC	82	LYS

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Mol	Chain	Res	Type
38	DD	9	TYR
38	DD	26	LYS
38	DD	27	THR
38	DD	28	GLU
38	DD	31	LYS
38	DD	33	LEU
38	DD	34	VAL
38	DD	37	LEU
38	DD	44	ASN
38	DD	46	GLN
38	DD	49	ILE
38	DD	52	ARG
38	DD	54	ARG
38	DD	61	LEU
38	DD	64	ILE
38	DD	65	ILE
38	DD	78	LYS
38	DD	92	ILE
38	DD	94	LEU
38	DD	99	ASP
38	DD	101	GLU
38	DD	103	ARG
38	DD	106	ILE
38	DD	111	LEU
38	DD	113	VAL
38	DD	125	ILE
38	DD	126	GLN
38	DD	131	LEU
38	DD	147	LEU
38	DD	157	ARG
38	DD	166	GLN
38	DD	192	THR
38	DD	200	ASP
38	DD	205	VAL
38	DD	211	ARG
38	DD	212	SER
38	DD	239	ARG
38	DD	242	ARG
38	DD	257	LEU
38	DD	271	ILE
39	DE	4	ILE
39	DE	7	VAL

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Mol	Chain	Res	Type
39	DE	9	VAL
39	DE	33	VAL
39	DE	41	LYS
39	DE	49	LEU
39	DE	78	LEU
39	DE	82	ARG
39	DE	93	VAL
39	DE	111	ARG
39	DE	116	VAL
39	DE	141	ILE
39	DE	144	ARG
39	DE	147	PRO
39	DE	174	ASP
39	DE	175	VAL
39	DE	178	GLU
39	DE	184	VAL
39	DE	195	LEU
39	DE	196	VAL
39	DE	202	LYS
39	DE	203	LYS
40	DF	11	VAL
40	DF	19	GLU
40	DF	23	ASP
40	DF	24	LEU
40	DF	43	LYS
40	DF	50	SER
40	DF	65	TRP
40	DF	66	PRO
40	DF	67	GLN
40	DF	84	VAL
40	DF	88	VAL
40	DF	100	THR
40	DF	102	PRO
40	DF	110	LEU
40	DF	157	VAL
40	DF	158	THR
40	DF	161	GLU
40	DF	164	ARG
40	DF	175	THR
40	DF	182	ASN
40	DF	183	VAL
40	DF	192	LEU

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Mol	Chain	Res	Type
40	DF	200	GLU
40	DF	201	VAL
40	DF	206	ILE
41	DG	3	LEU
41	DG	15	VAL
41	DG	29	TRP
41	DG	39	ILE
41	DG	52	ILE
41	DG	59	GLU
41	DG	71	THR
41	DG	80	PHE
41	DG	81	LYS
41	DG	82	LEU
41	DG	84	LYS
41	DG	88	ILE
41	DG	90	LEU
41	DG	91	ARG
41	DG	155	MET
41	DG	159	VAL
41	DG	164	GLU
42	DH	7	LEU
42	DH	9	ILE
42	DH	10	PRO
42	DH	13	LYS
42	DH	41	MET
42	DH	46	GLU
42	DH	47	GLU
42	DH	54	ARG
42	DH	77	LYS
42	DH	86	GLU
42	DH	89	ILE
42	DH	97	ARG
42	DH	136	ILE
42	DH	143	GLN
42	DH	153	LYS
42	DH	163	TYR
42	DH	170	ARG
43	DI	1	MET
43	DI	2	LYS
43	DI	5	LEU
43	DI	35	LEU
43	DI	52	ARG

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Mol	Chain	Res	Type
43	DI	54	GLN
43	DI	58	LEU
43	DI	61	ARG
43	DI	81	VAL
43	DI	86	THR
43	DI	89	TYR
43	DI	93	THR
43	DI	105	HIS
43	DI	110	ASP
43	DI	111	PRO
43	DI	123	LEU
43	DI	129	THR
43	DI	132	PRO
43	DI	133	HIS
43	DI	144	VAL
45	DN	4	TYR
45	DN	19	GLU
45	DN	23	LEU
45	DN	25	ARG
45	DN	28	THR
45	DN	32	THR
45	DN	34	LEU
45	DN	45	ASN
45	DN	48	MET
45	DN	55	VAL
45	DN	58	ASP
45	DN	63	THR
45	DN	67	LEU
45	DN	69	GLN
45	DN	78	TYR
45	DN	87	LEU
45	DN	89	LYS
45	DN	103	VAL
45	DN	119	ARG
45	DN	120	LEU
45	DN	131	GLN
46	DO	5	GLN
46	DO	32	TYR
46	DO	58	VAL
46	DO	98	VAL
46	DO	109	LYS
46	DO	117	LEU

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Mol	Chain	Res	Type
47	DP	7	ARG
47	DP	10	PRO
47	DP	13	ASN
47	DP	16	ARG
47	DP	18	ARG
47	DP	29	LYS
47	DP	30	THR
47	DP	36	LYS
47	DP	39	LYS
47	DP	41	ARG
47	DP	42	SER
47	DP	45	LEU
47	DP	48	PRO
47	DP	59	LEU
47	DP	61	ARG
47	DP	62	LEU
47	DP	64	LYS
47	DP	68	GLN
47	DP	75	ILE
47	DP	81	GLN
47	DP	83	VAL
47	DP	91	PHE
47	DP	98	GLU
47	DP	105	LEU
47	DP	110	TYR
47	DP	114	ILE
47	DP	115	LEU
47	DP	132	LYS
47	DP	136	GLU
47	DP	144	GLU
48	DQ	1	MET
48	DQ	55	VAL
48	DQ	75	THR
48	DQ	79	LEU
48	DQ	89	ASN
48	DQ	106	VAL
48	DQ	133	ARG
49	DR	11	ASN
49	DR	12	ARG
49	DR	17	ARG
49	DR	28	LEU
49	DR	29	LEU

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Mol	Chain	Res	Type
49	DR	34	ILE
49	DR	65	LEU
49	DR	74	LYS
49	DR	75	LEU
49	DR	76	VAL
49	DR	79	LEU
49	DR	94	TYR
49	DR	103	ARG
49	DR	104	ARG
49	DR	118	GLU
50	DS	11	LYS
50	DS	15	ARG
50	DS	20	ARG
50	DS	24	LEU
50	DS	36	TYR
50	DS	54	LEU
50	DS	64	GLU
50	DS	89	ARG
50	DS	92	TYR
50	DS	97	ARG
50	DS	99	LYS
50	DS	101	LEU
50	DS	103	GLU
51	DT	11	GLU
51	DT	13	ARG
51	DT	14	TYR
51	DT	27	THR
51	DT	29	ARG
51	DT	38	ASN
51	DT	42	ILE
51	DT	49	VAL
51	DT	53	ARG
51	DT	58	ASN
51	DT	59	THR
51	DT	70	VAL
51	DT	82	LEU
51	DT	85	LYS
51	DT	93	ARG
51	DT	96	ARG
51	DT	121	ILE
51	DT	128	GLU
51	DT	132	LYS

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Mol	Chain	Res	Type
52	DU	11	ARG
52	DU	20	LEU
52	DU	31	SER
52	DU	34	LYS
52	DU	60	LEU
52	DU	70	ARG
52	DU	74	LEU
52	DU	80	ILE
52	DU	108	GLU
52	DU	112	ARG
53	DV	1	MET
53	DV	5	VAL
53	DV	12	TYR
53	DV	18	LEU
53	DV	19	LYS
53	DV	39	LEU
53	DV	40	LEU
53	DV	47	VAL
53	DV	50	PRO
53	DV	57	VAL
53	DV	85	LYS
53	DV	92	THR
53	DV	99	ILE
53	DV	100	ARG
54	DW	11	ARG
54	DW	12	ILE
54	DW	20	VAL
54	DW	21	VAL
54	DW	47	VAL
54	DW	50	VAL
54	DW	51	LEU
54	DW	61	ASN
54	DW	67	ASP
54	DW	70	TYR
54	DW	76	VAL
54	DW	100	THR
54	DW	107	LEU
55	DX	15	GLU
55	DX	27	THR
55	DX	28	PHE
55	DX	30	VAL
55	DX	35	THR

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Mol	Chain	Res	Type
55	DX	48	LYS
55	DX	51	VAL
55	DX	57	LEU
55	DX	72	LYS
55	DX	80	ILE
55	DX	83	VAL
56	DY	7	VAL
56	DY	28	LYS
56	DY	29	GLU
56	DY	32	PRO
56	DY	38	ILE
56	DY	50	ARG
56	DY	55	TYR
56	DY	56	PRO
56	DY	62	GLU
56	DY	64	GLU
56	DY	77	PRO
56	DY	83	THR
56	DY	97	ARG
57	DZ	6	LYS
57	DZ	8	TYR
57	DZ	24	LEU
57	DZ	28	MET
57	DZ	34	ASN
57	DZ	35	ARG
57	DZ	38	TYR
57	DZ	53	ILE
57	DZ	86	VAL
57	DZ	92	SER
57	DZ	112	ARG
57	DZ	125	LEU
57	DZ	128	VAL
57	DZ	145	GLU
57	DZ	155	LEU
57	DZ	163	LEU
57	DZ	167	PRO
57	DZ	175	VAL
57	DZ	178	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (325) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	40	HIS
2	AB	76	GLN
2	AB	78	GLN
2	AB	94	ASN
2	AB	104	ASN
2	AB	146	GLN
2	AB	204	ASN
2	AB	224	GLN
3	AC	31	HIS
3	AC	37	GLN
3	AC	69	HIS
3	AC	107	GLN
3	AC	123	GLN
3	AC	136	GLN
3	AC	162	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	62	GLN
4	AD	77	ASN
4	AD	119	GLN
4	AD	123	HIS
4	AD	129	ASN
4	AD	160	GLN
4	AD	161	ASN
5	AE	20	GLN
5	AE	72	GLN
5	AE	73	ASN
5	AE	130	ASN
5	AE	141	GLN
6	AF	18	GLN
6	AF	32	ASN
6	AF	73	ASN
6	AF	100	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	28	ASN
7	AG	84	ASN
7	AG	86	GLN
7	AG	106	GLN
7	AG	148	ASN
8	AH	78	GLN
9	AI	23	ASN
9	AI	124	GLN

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Mol	Chain	Res	Type
10	AJ	56	HIS
11	AK	38	ASN
11	AK	62	GLN
11	AK	78	GLN
11	AK	93	GLN
11	AK	117	ASN
12	AL	5	ASN
12	AL	6	GLN
12	AL	46	ASN
12	AL	72	HIS
13	AM	40	ASN
13	AM	77	ASN
13	AM	101	GLN
15	AO	13	GLN
15	AO	28	GLN
15	AO	37	ASN
15	AO	46	HIS
16	AP	65	GLN
17	AQ	16	GLN
18	AR	36	ASN
19	AS	23	ASN
19	AS	57	HIS
20	AT	42	GLN
20	AT	90	GLN
24	AY	10	HIS
24	AY	81	ASN
24	AY	82	GLN
24	AY	91	ASN
25	B0	12	ASN
25	B0	29	GLN
26	B1	45	ASN
26	B1	56	GLN
27	B2	38	GLN
27	B2	47	ASN
27	B2	56	GLN
27	B2	71	ASN
28	B3	19	GLN
28	B3	46	ASN
28	B3	52	HIS
29	B4	46	GLN
30	B5	23	HIS
30	B5	43	HIS

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Mol	Chain	Res	Type
32	B7	8	ASN
33	B8	43	GLN
34	B9	34	GLN
38	BD	58	HIS
38	BD	87	ASN
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
38	BD	201	HIS
38	BD	227	ASN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	121	ASN
39	BE	129	HIS
39	BE	132	HIS
39	BE	143	ASN
40	BF	40	GLN
40	BF	69	HIS
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN
40	BF	182	ASN
40	BF	204	ASN
41	BG	27	ASN
41	BG	40	ASN
41	BG	41	GLN
41	BG	66	GLN
41	BG	108	ASN
41	BG	121	ASN
41	BG	132	ASN
41	BG	138	GLN
42	BH	65	HIS
42	BH	74	ASN
42	BH	139	GLN
42	BH	147	ASN
43	BI	28	ASN
43	BI	43	ASN
43	BI	104	GLN
45	BN	45	ASN
45	BN	69	GLN

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Mol	Chain	Res	Type
45	BN	94	HIS
45	BN	128	HIS
45	BN	130	HIS
46	BO	82	ASN
47	BP	13	ASN
47	BP	68	GLN
47	BP	84	ASN
48	BQ	12	GLN
48	BQ	45	GLN
48	BQ	89	ASN
48	BQ	141	GLN
49	BR	13	HIS
49	BR	16	HIS
49	BR	23	ASN
49	BR	24	GLN
49	BR	31	HIS
49	BR	71	GLN
50	BS	68	GLN
50	BS	95	HIS
51	BT	38	ASN
51	BT	58	ASN
52	BU	49	HIS
52	BU	66	ASN
52	BU	71	GLN
52	BU	81	HIS
52	BU	104	GLN
52	BU	117	GLN
53	BV	11	GLN
54	BW	34	ASN
54	BW	57	ASN
54	BW	60	ASN
54	BW	102	HIS
55	BX	41	ASN
55	BX	55	ASN
55	BX	87	GLN
57	BZ	32	HIS
57	BZ	55	HIS
57	BZ	65	GLN
57	BZ	121	HIS
2	CB	40	HIS
2	CB	76	GLN
2	CB	78	GLN

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Mol	Chain	Res	Type
2	CB	94	ASN
2	CB	104	ASN
2	CB	146	GLN
2	CB	204	ASN
2	CB	224	GLN
3	CC	3	ASN
3	CC	31	HIS
3	CC	69	HIS
3	CC	107	GLN
3	CC	123	GLN
3	CC	136	GLN
3	CC	170	GLN
3	CC	181	ASN
4	CD	62	GLN
4	CD	77	ASN
4	CD	125	HIS
4	CD	129	ASN
4	CD	160	GLN
4	CD	161	ASN
5	CE	20	GLN
5	CE	65	ASN
5	CE	72	GLN
5	CE	73	ASN
5	CE	127	ASN
5	CE	130	ASN
5	CE	141	GLN
6	CF	32	ASN
6	CF	73	ASN
6	CF	100	ASN
7	CG	11	GLN
7	CG	13	GLN
7	CG	28	ASN
7	CG	84	ASN
7	CG	86	GLN
7	CG	106	GLN
7	CG	148	ASN
8	CH	78	GLN
9	CI	23	ASN
9	CI	124	GLN
10	CJ	56	HIS
11	CK	38	ASN
11	CK	62	GLN

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Mol	Chain	Res	Type
11	CK	78	GLN
11	CK	93	GLN
11	CK	117	ASN
12	CL	5	ASN
12	CL	6	GLN
12	CL	46	ASN
12	CL	72	HIS
13	CM	40	ASN
13	CM	101	GLN
15	CO	13	GLN
15	CO	28	GLN
15	CO	37	ASN
15	CO	46	HIS
16	CP	65	GLN
17	CQ	16	GLN
18	CR	36	ASN
19	CS	14	HIS
19	CS	23	ASN
19	CS	57	HIS
20	CT	42	GLN
20	CT	90	GLN
25	D0	12	ASN
25	D0	29	GLN
26	D1	45	ASN
27	D2	38	GLN
27	D2	47	ASN
27	D2	65	ASN
27	D2	71	ASN
28	D3	19	GLN
28	D3	46	ASN
28	D3	52	HIS
29	D4	46	GLN
30	D5	23	HIS
30	D5	43	HIS
32	D7	8	ASN
33	D8	43	GLN
34	D9	34	GLN
38	DD	58	HIS
38	DD	87	ASN
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS

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Mol	Chain	Res	Type
38	DD	198	ASN
38	DD	201	HIS
38	DD	227	ASN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	121	ASN
39	DE	129	HIS
39	DE	132	HIS
39	DE	143	ASN
40	DF	40	GLN
40	DF	69	HIS
40	DF	75	HIS
40	DF	133	ASN
40	DF	160	ASN
40	DF	182	ASN
40	DF	204	ASN
41	DG	27	ASN
41	DG	41	GLN
41	DG	66	GLN
41	DG	121	ASN
41	DG	138	GLN
42	DH	65	HIS
42	DH	74	ASN
42	DH	139	GLN
42	DH	147	ASN
43	DI	28	ASN
43	DI	43	ASN
43	DI	104	GLN
45	DN	45	ASN
45	DN	69	GLN
45	DN	128	HIS
45	DN	130	HIS
46	DO	82	ASN
47	DP	13	ASN
47	DP	35	HIS
47	DP	68	GLN
47	DP	84	ASN
48	DQ	12	GLN
48	DQ	45	GLN
48	DQ	89	ASN
48	DQ	141	GLN

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Mol	Chain	Res	Type
49	DR	13	HIS
49	DR	16	HIS
49	DR	23	ASN
49	DR	24	GLN
49	DR	31	HIS
49	DR	71	GLN
50	DS	61	ASN
50	DS	68	GLN
51	DT	38	ASN
51	DT	58	ASN
51	DT	90	GLN
52	DU	49	HIS
52	DU	66	ASN
52	DU	71	GLN
52	DU	81	HIS
52	DU	104	GLN
52	DU	117	GLN
53	DV	11	GLN
54	DW	34	ASN
54	DW	57	ASN
54	DW	102	HIS
55	DX	41	ASN
55	DX	55	ASN
55	DX	87	GLN
57	DZ	32	HIS
57	DZ	34	ASN
57	DZ	55	HIS
57	DZ	65	GLN
57	DZ	73	GLN
57	DZ	118	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1505/1522 (98%)	207 (13%)	21 (1%)
1	CA	1505/1522 (98%)	236 (15%)	24 (1%)
22	AV	76/77 (98%)	18 (23%)	1 (1%)
22	AW	76/77 (98%)	14 (18%)	1 (1%)
22	CV	76/77 (98%)	20 (26%)	1 (1%)
22	CW	76/77 (98%)	8 (10%)	0
23	AX	15/25 (60%)	14 (93%)	10 (66%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
35	BA	2805/2848 (98%)	487 (17%)	58 (2%)
35	DA	2805/2848 (98%)	491 (17%)	58 (2%)
36	BB	118/122 (96%)	20 (16%)	1 (0%)
36	DB	118/122 (96%)	20 (16%)	1 (0%)
58	CX	8/25 (32%)	7 (87%)	5 (62%)
All	All	9183/9342 (98%)	1542 (16%)	181 (1%)

All (1542) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	4	U
1	AA	5	U
1	AA	6	G
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	34	C
1	AA	39	G
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	61	G
1	AA	77	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	83	U
1	AA	88	A
1	AA	90	U
1	AA	97	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	144	G
1	AA	146	G
1	AA	173	U
1	AA	179	A
1	AA	182	U
1	AA	189(F)	U
1	AA	195	A
1	AA	197	A

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Mol	Chain	Res	Type
1	AA	203	U
1	AA	216	G
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	289	G
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	373	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	429	U
1	AA	430	A
1	AA	435	C
1	AA	439	A
1	AA	452	A
1	AA	470	C
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	547	A
1	AA	559	A
1	AA	561	U

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Mol	Chain	Res	Type
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	588	G
1	AA	596	C
1	AA	614	A
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	633	G
1	AA	653	A
1	AA	665	A
1	AA	687	A
1	AA	688	G
1	AA	724	G
1	AA	749	C
1	AA	755	G
1	AA	777	A
1	AA	793	U
1	AA	794	A
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	821	G
1	AA	828	A
1	AA	833	U
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	859	A
1	AA	873	A
1	AA	902	G
1	AA	913	A
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A

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Mol	Chain	Res	Type
1	AA	960	U
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	972	C
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	991	U
1	AA	992	U
1	AA	993	G
1	AA	1005	A
1	AA	1011	G
1	AA	1013	G
1	AA	1021	G
1	AA	1023	G
1	AA	1026	G
1	AA	1030	C
1	AA	1040	U
1	AA	1050	G
1	AA	1054	C
1	AA	1067	A
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1108	G
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1131	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1152	A
1	AA	1159	U

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Mol	Chain	Res	Type
1	AA	1181	G
1	AA	1182	G
1	AA	1196	U
1	AA	1197	G
1	AA	1212	U
1	AA	1213	A
1	AA	1238	A
1	AA	1249	C
1	AA	1257	U
1	AA	1278	U
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A
1	AA	1294	G
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1331	G
1	AA	1347	G
1	AA	1363	C
1	AA	1364	U
1	AA	1397	C
1	AA	1400	C
1	AA	1401	G
1	AA	1419	G
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1456	G
1	AA	1487	G
1	AA	1492	A
1	AA	1498	U
1	AA	1499	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U

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Mol	Chain	Res	Type
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
1	AA	1533	C
22	AV	5	G
22	AV	7	G
22	AV	8	U
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	47	U
22	AV	48	C
22	AV	52	G
22	AV	53	G
22	AV	54	U
22	AV	55	U
22	AV	61	C
22	AV	63	G
22	AV	67	C
22	AV	73	A
22	AV	74	C
22	AV	76	A
22	AW	4	G
22	AW	5	G
22	AW	8	U
22	AW	16	C
22	AW	17	C
22	AW	18	G
22	AW	19	G
22	AW	20	U
22	AW	46	G
22	AW	47	U
22	AW	48	C
22	AW	51	C
22	AW	61	C
22	AW	65	C
23	AX	11	U
23	AX	12	A
23	AX	13	A

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Mol	Chain	Res	Type
23	AX	14	A
23	AX	15	A
23	AX	16	A
23	AX	17	U
23	AX	19	U
23	AX	20	U
23	AX	21	C
23	AX	22	A
23	AX	23	A
23	AX	24	A
23	AX	25	A
35	BA	9	U
35	BA	10	G
35	BA	34	C
35	BA	35	G
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	71	A
35	BA	72	U
35	BA	75	G
35	BA	88	G
35	BA	90	U
35	BA	94	C
35	BA	100	G
35	BA	102	G
35	BA	118	A
35	BA	119	A
35	BA	120	U
35	BA	129	C
35	BA	139(A)	G
35	BA	141	A
35	BA	146	G
35	BA	154	G
35	BA	154(A)	C
35	BA	157	U
35	BA	158	U
35	BA	171	G
35	BA	175	G
35	BA	196	A
35	BA	197	A
35	BA	204	A

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Mol	Chain	Res	Type
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	229	A
35	BA	230	U
35	BA	233	A
35	BA	248	G
35	BA	252	G
35	BA	267	C
35	BA	271(I)	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(M)	G
35	BA	271(N)	U
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(R)	G
35	BA	271(Y)	U
35	BA	272	G
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	272(I)	U
35	BA	272(J)	C
35	BA	274	G
35	BA	275	G
35	BA	299	A
35	BA	311	A
35	BA	312	G
35	BA	324	A
35	BA	329	G
35	BA	330	A
35	BA	331	A
35	BA	332	A
35	BA	333	G
35	BA	352	G
35	BA	353	G
35	BA	358	U
35	BA	362	U
35	BA	363(B)	G

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Mol	Chain	Res	Type
35	BA	364	C
35	BA	365	C
35	BA	386	G
35	BA	387	U
35	BA	388	G
35	BA	396	G
35	BA	405	U
35	BA	411	G
35	BA	412	A
35	BA	415	A
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	451	C
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	475	U
35	BA	481	G
35	BA	494	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	513	A
35	BA	528	A
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	543	C
35	BA	547	A
35	BA	548	A
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	586	A
35	BA	588	U
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	615	G
35	BA	620	G

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Mol	Chain	Res	Type
35	BA	622	G
35	BA	624	C
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	652	C
35	BA	656	G
35	BA	669	G
35	BA	670	A
35	BA	686	G
35	BA	708	C
35	BA	717	G
35	BA	722	A
35	BA	730	C
35	BA	753	C
35	BA	775	G
35	BA	776	G
35	BA	777	A
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	805	G
35	BA	812	C
35	BA	819	A
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	848	G
35	BA	856	C
35	BA	859	G
35	BA	878	A
35	BA	890	A
35	BA	896	A
35	BA	897	C
35	BA	904	C
35	BA	906	G
35	BA	910	A
35	BA	917	A

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Mol	Chain	Res	Type
35	BA	926	A
35	BA	932	G
35	BA	941	A
35	BA	946	G
35	BA	958	U
35	BA	959	A
35	BA	961	C
35	BA	965	C
35	BA	974	G
35	BA	975	C
35	BA	983	A
35	BA	991	C
35	BA	996	A
35	BA	1005	C
35	BA	1012	U
35	BA	1013	C
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	U
35	BA	1033	U
35	BA	1039	G
35	BA	1041	C
35	BA	1045	A
35	BA	1046	A
35	BA	1047	G
35	BA	1049	C
35	BA	1052	C
35	BA	1053	C
35	BA	1106	A
35	BA	1110	G
35	BA	1112	G
35	BA	1113	U
35	BA	1114	G
35	BA	1115	G
35	BA	1118	C
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1155	A
35	BA	1174	A
35	BA	1175	U

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Mol	Chain	Res	Type
35	BA	1176	G
35	BA	1178	C
35	BA	1195	G
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1221	C
35	BA	1250	G
35	BA	1253	A
35	BA	1256	G
35	BA	1265	A
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U
35	BA	1281	G
35	BA	1289	C
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1314	C
35	BA	1332	G
35	BA	1347	G
35	BA	1349	A
35	BA	1359	A
35	BA	1365	A
35	BA	1368	G
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G
35	BA	1386	C
35	BA	1396	U
35	BA	1397	U
35	BA	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1419	A
35	BA	1420	U
35	BA	1421	G
35	BA	1427	A
35	BA	1428	C
35	BA	1437	C

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Mol	Chain	Res	Type
35	BA	1445	A
35	BA	1449	A
35	BA	1450	G
35	BA	1451	C
35	BA	1455	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1471	A
35	BA	1475	G
35	BA	1478	G
35	BA	1481	U
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1491	G
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1520	G
35	BA	1530	C
35	BA	1531	C
35	BA	1532	C
35	BA	1533	G
35	BA	1544	A
35	BA	1545	A
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1588	C

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Mol	Chain	Res	Type
35	BA	1593	G
35	BA	1598	C
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1616	A
35	BA	1617	C
35	BA	1618	A
35	BA	1640	C
35	BA	1648	C
35	BA	1653	G
35	BA	1654	A
35	BA	1667	G
35	BA	1674	G
35	BA	1694	C
35	BA	1695	G
35	BA	1696	G
35	BA	1698	A
35	BA	1718	G
35	BA	1722	A
35	BA	1739	U
35	BA	1742	G
35	BA	1746	G
35	BA	1748	G
35	BA	1754	C
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1829	A
35	BA	1847	A
35	BA	1848	A
35	BA	1858	G
35	BA	1864	U
35	BA	1877	A
35	BA	1878	G

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Mol	Chain	Res	Type
35	BA	1881	C
35	BA	1882	C
35	BA	1888	G
35	BA	1889	A
35	BA	1900	A
35	BA	1906	G
35	BA	1912	A
35	BA	1913	A
35	BA	1916	A
35	BA	1929	G
35	BA	1930	G
35	BA	1936	A
35	BA	1938	A
35	BA	1939	U
35	BA	1955	U
35	BA	1962	C
35	BA	1963	U
35	BA	1967	C
35	BA	1969	A
35	BA	1971	A
35	BA	1972	A
35	BA	1982	C
35	BA	1987	G
35	BA	1993	U
35	BA	1996	C
35	BA	1997	G
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2092	U
35	BA	2093	G
35	BA	2099	U
35	BA	2103	C
35	BA	2104	G

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Mol	Chain	Res	Type
35	BA	2111	C
35	BA	2116	G
35	BA	2120	G
35	BA	2127	G
35	BA	2131	G
35	BA	2133	G
35	BA	2134	A
35	BA	2148	G
35	BA	2159	G
35	BA	2179	C
35	BA	2186	G
35	BA	2189	U
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2203	U
35	BA	2206	G
35	BA	2207	G
35	BA	2208	A
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2288	A
35	BA	2289	G
35	BA	2305	A
35	BA	2306	C
35	BA	2307	G
35	BA	2316	C
35	BA	2318	G
35	BA	2319	G
35	BA	2320	A
35	BA	2334	G
35	BA	2336	A
35	BA	2345	G
35	BA	2347	C
35	BA	2350	C

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Mol	Chain	Res	Type
35	BA	2361	A
35	BA	2372	G
35	BA	2383	G
35	BA	2385	C
35	BA	2400	G
35	BA	2402	C
35	BA	2406	U
35	BA	2423	U
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2502	G
35	BA	2505	G
35	BA	2518	A
35	BA	2520	C
35	BA	2524	G
35	BA	2529	G
35	BA	2542	A
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A
35	BA	2567	G
35	BA	2573	C
35	BA	2582	G
35	BA	2602	A
35	BA	2609	U
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2636	U
35	BA	2654	A

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Mol	Chain	Res	Type
35	BA	2673	G
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2720	U
35	BA	2726	U
35	BA	2733	A
35	BA	2752	C
35	BA	2757	A
35	BA	2758	A
35	BA	2762	G
35	BA	2765	A
35	BA	2778	A
35	BA	2787	C
35	BA	2789	C
35	BA	2790	A
35	BA	2791	C
35	BA	2794	C
35	BA	2801(A)	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2818	G
35	BA	2820	A
35	BA	2821	A
35	BA	2823	A
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U
35	BA	2872	G
35	BA	2894	G
36	BB	3	C
36	BB	8	U
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	25	A

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Mol	Chain	Res	Type
36	BB	27	C
36	BB	40	U
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	47	C
36	BB	53	A
36	BB	67	G
36	BB	73	A
36	BB	75	G
36	BB	81	G
36	BB	88	C
36	BB	109	C
36	BB	110	G
1	CA	4	U
1	CA	5	U
1	CA	9	G
1	CA	11	G
1	CA	12	U
1	CA	13	U
1	CA	31	G
1	CA	32	A
1	CA	34	C
1	CA	35	G
1	CA	36	C
1	CA	37	U
1	CA	38	G
1	CA	39	G
1	CA	46	G
1	CA	47	C
1	CA	48	C
1	CA	49	U
1	CA	50	A
1	CA	51	A
1	CA	61	G
1	CA	79	G
1	CA	80	G
1	CA	81	U
1	CA	83	U
1	CA	88	A
1	CA	90	U
1	CA	97	G

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Mol	Chain	Res	Type
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	131	C
1	CA	144	G
1	CA	146	G
1	CA	173	U
1	CA	179	A
1	CA	182	U
1	CA	189(F)	U
1	CA	195	A
1	CA	197	A
1	CA	203	U
1	CA	216	G
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	281	G
1	CA	289	G
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	345	C
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	397	A
1	CA	398	C
1	CA	399	G
1	CA	401	C
1	CA	402	G
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	423	G
1	CA	429	U
1	CA	430	A

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Mol	Chain	Res	Type
1	CA	435	C
1	CA	439	A
1	CA	452	A
1	CA	470	C
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	511	C
1	CA	512	U
1	CA	518	C
1	CA	527	G
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	547	A
1	CA	559	A
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	588	G
1	CA	596	C
1	CA	614	A
1	CA	630	G
1	CA	631	G
1	CA	632	A
1	CA	633	G
1	CA	645	C
1	CA	646	U
1	CA	653	A
1	CA	658	G
1	CA	660	G
1	CA	665	A
1	CA	687	A
1	CA	688	G
1	CA	724	G
1	CA	749	C
1	CA	755	G
1	CA	777	A

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Mol	Chain	Res	Type
1	CA	793	U
1	CA	794	A
1	CA	815	A
1	CA	816	A
1	CA	817	C
1	CA	818	G
1	CA	821	G
1	CA	828	A
1	CA	833	U
1	CA	837	G
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	859	A
1	CA	873	A
1	CA	902	G
1	CA	913	A
1	CA	914	A
1	CA	922	G
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	941	G
1	CA	943	U
1	CA	960	U
1	CA	966	G
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	972	C
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	991	U
1	CA	992	U
1	CA	993	G
1	CA	1005	A
1	CA	1011	G

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Mol	Chain	Res	Type
1	CA	1013	G
1	CA	1021	G
1	CA	1023	G
1	CA	1026	G
1	CA	1030	C
1	CA	1050	G
1	CA	1054	C
1	CA	1060	C
1	CA	1061	G
1	CA	1062	U
1	CA	1067	A
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1108	G
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1152	A
1	CA	1159	U
1	CA	1181	G
1	CA	1182	G
1	CA	1196	U
1	CA	1197	G
1	CA	1207	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	1249	C
1	CA	1257	U
1	CA	1280	A

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Mol	Chain	Res	Type
1	CA	1281	U
1	CA	1282	C
1	CA	1286	A
1	CA	1287	A
1	CA	1294	G
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C
1	CA	1331	G
1	CA	1347	G
1	CA	1363	C
1	CA	1364	U
1	CA	1397	C
1	CA	1398	A
1	CA	1401	G
1	CA	1419	G
1	CA	1439	C
1	CA	1440	C
1	CA	1442	G
1	CA	1442(B)	A
1	CA	1447	A
1	CA	1456	G
1	CA	1492	A
1	CA	1495	U
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	1517	G
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
1	CA	1532	U
22	CV	3	C
22	CV	5	G

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Mol	Chain	Res	Type
22	CV	6	G
22	CV	8	U
22	CV	17	C
22	CV	17(A)	U
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	34	C
22	CV	35	A
22	CV	37	A
22	CV	47	U
22	CV	48	C
22	CV	49	G
22	CV	55	U
22	CV	59	A
22	CV	67	C
22	CV	76	A
22	CW	7	G
22	CW	16	C
22	CW	17(A)	U
22	CW	18	G
22	CW	19	G
22	CW	47	U
22	CW	48	C
22	CW	56	C
58	CX	13	A
58	CX	14	A
58	CX	15	A
58	CX	16	A
58	CX	17	U
58	CX	18	G
58	CX	19	G
35	DA	9	U
35	DA	10	G
35	DA	34	C
35	DA	35	G
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	71	A
35	DA	72	U

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Mol	Chain	Res	Type
35	DA	75	G
35	DA	88	G
35	DA	89	G
35	DA	90	U
35	DA	94	C
35	DA	100	G
35	DA	102	G
35	DA	118	A
35	DA	119	A
35	DA	120	U
35	DA	129	C
35	DA	139(A)	G
35	DA	141	A
35	DA	146	G
35	DA	147	U
35	DA	154	G
35	DA	154(A)	C
35	DA	157	U
35	DA	158	U
35	DA	171	G
35	DA	175	G
35	DA	196	A
35	DA	197	A
35	DA	204	A
35	DA	205	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	229	A
35	DA	230	U
35	DA	233	A
35	DA	248	G
35	DA	252	G
35	DA	267	C
35	DA	271(I)	G
35	DA	271(J)	C
35	DA	271(K)	U
35	DA	271(L)	U
35	DA	271(M)	G
35	DA	271(N)	U
35	DA	271(O)	C

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Mol	Chain	Res	Type
35	DA	271(P)	C
35	DA	271(R)	G
35	DA	271(Y)	U
35	DA	272	G
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	272(I)	U
35	DA	272(J)	C
35	DA	274	G
35	DA	275	G
35	DA	299	A
35	DA	311	A
35	DA	324	A
35	DA	329	G
35	DA	330	A
35	DA	331	A
35	DA	332	A
35	DA	333	G
35	DA	352	G
35	DA	353	G
35	DA	358	U
35	DA	362	U
35	DA	363(B)	G
35	DA	364	C
35	DA	365	C
35	DA	386	G
35	DA	387	U
35	DA	388	G
35	DA	396	G
35	DA	405	U
35	DA	411	G
35	DA	412	A
35	DA	415	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	451	C
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U
35	DA	481	G

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Mol	Chain	Res	Type
35	DA	494	G
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	510	C
35	DA	513	A
35	DA	528	A
35	DA	530	G
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	543	C
35	DA	547	A
35	DA	548	A
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	586	A
35	DA	588	U
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614(B)	G
35	DA	615	G
35	DA	620	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	652	C
35	DA	669	G
35	DA	670	A
35	DA	686	G
35	DA	708	C
35	DA	717	G
35	DA	722	A
35	DA	730	C
35	DA	753	C
35	DA	776	G
35	DA	782	A
35	DA	784	A

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Mol	Chain	Res	Type
35	DA	785	G
35	DA	790	C
35	DA	791	C
35	DA	792	G
35	DA	805	G
35	DA	812	C
35	DA	819	A
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	848	G
35	DA	856	C
35	DA	859	G
35	DA	867	C
35	DA	868	U
35	DA	878	A
35	DA	890	A
35	DA	896	A
35	DA	897	C
35	DA	904	C
35	DA	906	G
35	DA	910	A
35	DA	917	A
35	DA	926	A
35	DA	932	G
35	DA	941	A
35	DA	946	G
35	DA	958	U
35	DA	959	A
35	DA	961	C
35	DA	965	C
35	DA	974	G
35	DA	975	C
35	DA	983	A
35	DA	991	C
35	DA	996	A
35	DA	1005	C
35	DA	1012	U
35	DA	1013	C
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G

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Mol	Chain	Res	Type
35	DA	1026	U
35	DA	1039	G
35	DA	1041	C
35	DA	1045	A
35	DA	1046	A
35	DA	1047	G
35	DA	1049	C
35	DA	1052	C
35	DA	1053	C
35	DA	1106	A
35	DA	1110	G
35	DA	1112	G
35	DA	1113	U
35	DA	1114	G
35	DA	1115	G
35	DA	1118	C
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G
35	DA	1155	A
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1178	C
35	DA	1205	U
35	DA	1210	A
35	DA	1211	U
35	DA	1221	C
35	DA	1250	G
35	DA	1253	A
35	DA	1256	G
35	DA	1265	A
35	DA	1271	G
35	DA	1272	A
35	DA	1273	U
35	DA	1281	G
35	DA	1289	C
35	DA	1300	U
35	DA	1301	A
35	DA	1302	A
35	DA	1314	C
35	DA	1332	G

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Mol	Chain	Res	Type
35	DA	1345	C
35	DA	1347	G
35	DA	1349	A
35	DA	1359	A
35	DA	1365	A
35	DA	1368	G
35	DA	1379	A
35	DA	1380	G
35	DA	1384	A
35	DA	1385	G
35	DA	1386	C
35	DA	1396	U
35	DA	1397	U
35	DA	1407	C
35	DA	1416	G
35	DA	1417	C
35	DA	1419	A
35	DA	1420	U
35	DA	1421	G
35	DA	1427	A
35	DA	1428	C
35	DA	1437	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	G
35	DA	1451	C
35	DA	1455	G
35	DA	1460	A
35	DA	1461	G
35	DA	1467	C
35	DA	1471	A
35	DA	1475	G
35	DA	1478	G
35	DA	1481	U
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A

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Mol	Chain	Res	Type
35	DA	1496	A
35	DA	1497	U
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1520	G
35	DA	1531	C
35	DA	1532	C
35	DA	1533	G
35	DA	1543	C
35	DA	1544	A
35	DA	1545	A
35	DA	1554	A
35	DA	1558	A
35	DA	1559	G
35	DA	1569	A
35	DA	1578	U
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A
35	DA	1588	C
35	DA	1593	G
35	DA	1598	C
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1616	A
35	DA	1617	C
35	DA	1618	A
35	DA	1640	C
35	DA	1648	C
35	DA	1653	G
35	DA	1654	A
35	DA	1667	G
35	DA	1674	G
35	DA	1694	C
35	DA	1695	G
35	DA	1696	G
35	DA	1698	A
35	DA	1718	G
35	DA	1722	A
35	DA	1739	U

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Mol	Chain	Res	Type
35	DA	1742	G
35	DA	1746	G
35	DA	1748	G
35	DA	1754	C
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1816	G
35	DA	1820	U
35	DA	1821	A
35	DA	1829	A
35	DA	1847	A
35	DA	1848	A
35	DA	1858	G
35	DA	1864	U
35	DA	1877	A
35	DA	1878	G
35	DA	1881	C
35	DA	1882	C
35	DA	1888	G
35	DA	1889	A
35	DA	1900	A
35	DA	1906	G
35	DA	1911	U
35	DA	1912	A
35	DA	1913	A
35	DA	1914	C
35	DA	1915	U
35	DA	1916	A
35	DA	1929	G
35	DA	1930	G
35	DA	1936	A
35	DA	1938	A
35	DA	1939	U
35	DA	1955	U
35	DA	1962	C
35	DA	1963	U
35	DA	1967	C

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Mol	Chain	Res	Type
35	DA	1969	A
35	DA	1971	A
35	DA	1972	A
35	DA	1982	C
35	DA	1987	G
35	DA	1993	U
35	DA	1996	C
35	DA	1997	G
35	DA	2023	G
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2069	G
35	DA	2092	U
35	DA	2093	G
35	DA	2099	U
35	DA	2103	C
35	DA	2104	G
35	DA	2111	C
35	DA	2116	G
35	DA	2120	G
35	DA	2127	G
35	DA	2131	G
35	DA	2133	G
35	DA	2134	A
35	DA	2159	G
35	DA	2179	C
35	DA	2186	G
35	DA	2189	U
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2203	U
35	DA	2206	G
35	DA	2207	G

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Mol	Chain	Res	Type
35	DA	2208	A
35	DA	2218	U
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2275	C
35	DA	2283	C
35	DA	2287	A
35	DA	2288	A
35	DA	2289	G
35	DA	2305	A
35	DA	2306	C
35	DA	2307	G
35	DA	2316	C
35	DA	2318	G
35	DA	2319	G
35	DA	2321	G
35	DA	2334	G
35	DA	2336	A
35	DA	2345	G
35	DA	2347	C
35	DA	2350	C
35	DA	2361	A
35	DA	2372	G
35	DA	2383	G
35	DA	2385	C
35	DA	2400	G
35	DA	2402	C
35	DA	2406	U
35	DA	2423	U
35	DA	2425	A
35	DA	2429	G
35	DA	2430	A
35	DA	2439	A
35	DA	2441	C
35	DA	2448	A
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2473	U

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Mol	Chain	Res	Type
35	DA	2474	C
35	DA	2475	C
35	DA	2476	A
35	DA	2477	C
35	DA	2478	A
35	DA	2482	G
35	DA	2502	G
35	DA	2505	G
35	DA	2518	A
35	DA	2520	C
35	DA	2524	G
35	DA	2529	G
35	DA	2542	A
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A
35	DA	2567	G
35	DA	2573	C
35	DA	2582	G
35	DA	2602	A
35	DA	2609	U
35	DA	2611	U
35	DA	2612	C
35	DA	2615	U
35	DA	2630	G
35	DA	2636	U
35	DA	2654	A
35	DA	2673	G
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2712	U
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2720	U
35	DA	2726	U
35	DA	2733	A
35	DA	2752	C
35	DA	2757	A
35	DA	2758	A
35	DA	2762	G
35	DA	2765	A

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Mol	Chain	Res	Type
35	DA	2778	A
35	DA	2787	C
35	DA	2789	C
35	DA	2790	A
35	DA	2791	C
35	DA	2794	C
35	DA	2801(A)	A
35	DA	2802	G
35	DA	2803	C
35	DA	2808	U
35	DA	2818	G
35	DA	2820	A
35	DA	2821	A
35	DA	2823	A
35	DA	2833	G
35	DA	2834	G
35	DA	2835	A
35	DA	2849	U
35	DA	2872	G
35	DA	2894	G
36	DB	3	C
36	DB	8	U
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	25	A
36	DB	27	C
36	DB	40	U
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	47	C
36	DB	53	A
36	DB	67	G
36	DB	73	A
36	DB	75	G
36	DB	81	G
36	DB	88	C
36	DB	109	C
36	DB	110	G

All (181) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	250	A
1	AA	266	G
1	AA	328	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	533	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	748	C
1	AA	913	A
1	AA	1049	U
1	AA	1067	A
1	AA	1281	U
1	AA	1300	G
1	AA	1498	U
1	AA	1504	G
22	AV	53	G
22	AW	17(A)	U
23	AX	11	U
23	AX	12	A
23	AX	14	A
23	AX	15	A
23	AX	16	A
23	AX	19	U
23	AX	21	C
23	AX	22	A
23	AX	23	A
23	AX	24	A
35	BA	49	A
35	BA	71	A
35	BA	74	A
35	BA	100	G
35	BA	128	C
35	BA	146	G
35	BA	221	A
35	BA	272	G
35	BA	331	A
35	BA	332	A

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Mol	Chain	Res	Type
35	BA	363(F)	A
35	BA	387	U
35	BA	474	G
35	BA	512	G
35	BA	542	C
35	BA	587	C
35	BA	603	A
35	BA	613	G
35	BA	614(C)	A
35	BA	669	G
35	BA	746	A
35	BA	752	A
35	BA	775	G
35	BA	776	G
35	BA	790	C
35	BA	848	G
35	BA	1022	G
35	BA	1210	A
35	BA	1300	U
35	BA	1301	A
35	BA	1378	A
35	BA	1396	U
35	BA	1427	A
35	BA	1484	G
35	BA	1490	A
35	BA	1558	A
35	BA	1608	A
35	BA	1609	A
35	BA	1617	C
35	BA	1653	G
35	BA	1694	C
35	BA	1799	G
35	BA	1819	A
35	BA	1820	U
35	BA	1962	C
35	BA	1970	A
35	BA	1992	G
35	BA	2033	A
35	BA	2126	A
35	BA	2225	A
35	BA	2282	G
35	BA	2422	A

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Mol	Chain	Res	Type
35	BA	2439	A
35	BA	2481	G
35	BA	2611	U
35	BA	2689	U
35	BA	2756	U
35	BA	2796	U
36	BB	66	A
1	CA	4	U
1	CA	33	A
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	250	A
1	CA	266	G
1	CA	328	C
1	CA	401	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	533	A
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	748	C
1	CA	913	A
1	CA	1049	U
1	CA	1067	A
1	CA	1206	G
1	CA	1281	U
1	CA	1300	G
1	CA	1504	G
22	CV	16	C
58	CX	12	A
58	CX	13	A
58	CX	14	A
58	CX	15	A
58	CX	17	U
35	DA	49	A
35	DA	71	A
35	DA	74	A
35	DA	100	G
35	DA	128	C

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Mol	Chain	Res	Type
35	DA	146	G
35	DA	221	A
35	DA	272	G
35	DA	331	A
35	DA	332	A
35	DA	363(F)	A
35	DA	387	U
35	DA	474	G
35	DA	508	G
35	DA	512	G
35	DA	542	C
35	DA	587	C
35	DA	603	A
35	DA	613	G
35	DA	614(C)	A
35	DA	669	G
35	DA	746	A
35	DA	752	A
35	DA	790	C
35	DA	926	A
35	DA	1022	G
35	DA	1210	A
35	DA	1300	U
35	DA	1301	A
35	DA	1378	A
35	DA	1396	U
35	DA	1427	A
35	DA	1484	G
35	DA	1558	A
35	DA	1608	A
35	DA	1609	A
35	DA	1617	C
35	DA	1653	G
35	DA	1694	C
35	DA	1799	G
35	DA	1819	A
35	DA	1820	U
35	DA	1911	U
35	DA	1962	C
35	DA	1970	A
35	DA	1992	G
35	DA	2033	A

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Mol	Chain	Res	Type
35	DA	2126	A
35	DA	2225	A
35	DA	2282	G
35	DA	2320	A
35	DA	2422	A
35	DA	2439	A
35	DA	2481	G
35	DA	2611	U
35	DA	2689	U
35	DA	2756	U
35	DA	2796	U
36	DB	66	A

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	A3P	AA	1493	1	25,28,29	0.67	1 (4%)	37,42,45	1.54	4 (10%)
1	A3P	CA	1493	1	25,28,29	0.55	0	37,42,45	0.65	1 (2%)

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
1	A3P	AA	1493	1	-	2/12/30/31	0/3/3/3
1	A3P	CA	1493	1	-	3/12/30/31	0/3/3/3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1493	A3P	P1-O3'	-2.05	1.55	1.59

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1493	A3P	O2P-P1-O3'	-5.70	83.64	105.85
1	AA	1493	A3P	P1-O3'-C3'	-4.93	110.27	123.43
1	AA	1493	A3P	O3'-P1-O1P	4.47	125.27	109.33
1	CA	1493	A3P	O2P-P1-O1P	2.13	119.13	110.83
1	AA	1493	A3P	O2P-P1-O1P	2.12	119.09	110.83

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	CA	1493	A3P	C2'-C1'-N9-C8
1	AA	1493	A3P	C3'-O3'-P1-O3P
1	CA	1493	A3P	C4'-C5'-O5'-P2
1	CA	1493	A3P	O4'-C1'-N9-C8
1	AA	1493	A3P	C2'-C1'-N9-C8

There are no ring outliers.

2 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	AA	1493	A3P	10	0
1	CA	1493	A3P	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2338 ligands modelled in this entry, 2338 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	AM	3
13	CM	3
9	CI	2
9	AI	2
31	B6	1
31	D6	1
41	BG	1
41	DG	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	46:HIS	C	47:THR	N	7.76
1	D6	46:HIS	C	47:THR	N	7.76
1	BG	112:PRO	C	113:ARG	N	4.73
1	DG	112:PRO	C	113:ARG	N	4.47
1	AM	69:GLU	C	70:LEU	N	4.25
1	CM	69:GLU	C	70:LEU	N	4.25
1	CM	97:PRO	C	98:VAL	N	4.10
1	AM	97:PRO	C	98:VAL	N	4.09
1	CI	53:VAL	C	54:ASP	N	3.92
1	AI	53:VAL	C	54:ASP	N	3.90
1	AI	104:ARG	C	105:ASP	N	3.42
1	CI	104:ARG	C	105:ASP	N	3.41
1	CM	65:LYS	C	66:LEU	N	2.85
1	AM	65:LYS	C	66:LEU	N	2.83

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	1507/1522 (99%)	0.29	49 (3%)	49	30	54, 107, 196, 201	0
1	CA	1507/1522 (99%)	1.40	367 (24%)	2	2	60, 169, 201, 201	0
2	AB	235/256 (91%)	0.52	16 (6%)	23	15	77, 152, 197, 201	0
2	CB	235/256 (91%)	0.83	24 (10%)	12	8	90, 173, 201, 201	0
3	AC	207/239 (86%)	0.65	15 (7%)	21	14	83, 149, 188, 201	0
3	CC	207/239 (86%)	0.76	15 (7%)	21	14	106, 175, 201, 201	0
4	AD	208/209 (99%)	0.47	11 (5%)	32	20	65, 105, 149, 180	0
4	CD	208/209 (99%)	1.32	49 (23%)	2	2	85, 173, 201, 201	0
5	AE	151/162 (93%)	0.31	6 (3%)	42	26	70, 107, 155, 198	0
5	CE	151/162 (93%)	1.04	25 (16%)	4	3	89, 155, 197, 201	0
6	AF	101/101 (100%)	0.47	1 (0%)	79	63	70, 125, 163, 190	0
6	CF	101/101 (100%)	0.40	3 (2%)	52	33	65, 110, 155, 184	0
7	AG	155/156 (99%)	0.43	6 (3%)	43	27	85, 141, 184, 201	0
7	CG	155/156 (99%)	0.78	16 (10%)	12	8	86, 164, 200, 201	0
8	AH	138/138 (100%)	0.36	9 (6%)	25	16	66, 108, 151, 171	0
8	CH	138/138 (100%)	0.90	12 (8%)	16	11	79, 157, 189, 201	0
9	AI	127/128 (99%)	0.92	20 (15%)	5	4	94, 164, 200, 201	0
9	CI	127/128 (99%)	1.13	29 (22%)	2	2	115, 177, 201, 201	0
10	AJ	99/105 (94%)	1.07	13 (13%)	7	6	105, 169, 201, 201	0
10	CJ	99/105 (94%)	1.52	28 (28%)	1	1	125, 181, 201, 201	0
11	AK	119/129 (92%)	0.34	6 (5%)	34	22	60, 113, 168, 197	0
11	CK	119/129 (92%)	0.63	10 (8%)	17	11	78, 139, 188, 200	0
12	AL	125/135 (92%)	0.22	2 (1%)	70	51	59, 90, 144, 201	0
12	CL	125/135 (92%)	1.32	34 (27%)	1	1	63, 139, 187, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	118/126 (93%)	0.76	8 (6%) 23 15	96, 152, 189, 201	0
13	CM	118/126 (93%)	0.95	20 (16%) 4 3	102, 165, 201, 201	0
14	AN	60/61 (98%)	1.01	7 (11%) 9 6	99, 153, 198, 201	0
14	CN	60/61 (98%)	1.52	18 (30%) 1 1	118, 171, 200, 201	0
15	AO	88/89 (98%)	0.22	1 (1%) 78 61	69, 102, 149, 171	0
15	CO	88/89 (98%)	0.58	6 (6%) 23 15	75, 123, 163, 176	0
16	AP	84/88 (95%)	0.31	2 (2%) 59 40	60, 92, 143, 195	0
16	CP	84/88 (95%)	1.57	25 (29%) 1 1	112, 172, 198, 201	0
17	AQ	100/105 (95%)	0.21	3 (3%) 52 33	63, 97, 134, 156	0
17	CQ	100/105 (95%)	0.86	6 (6%) 27 17	102, 142, 181, 195	0
18	AR	70/88 (79%)	0.38	1 (1%) 73 54	78, 116, 165, 178	0
18	CR	70/88 (79%)	0.45	2 (2%) 53 35	79, 120, 180, 196	0
19	AS	85/93 (91%)	0.53	2 (2%) 59 40	101, 164, 198, 201	0
19	CS	85/93 (91%)	1.03	16 (18%) 3 2	118, 176, 199, 201	0
20	AT	99/106 (93%)	0.41	3 (3%) 52 33	60, 104, 163, 191	0
20	CT	99/106 (93%)	1.07	15 (15%) 5 4	113, 169, 198, 201	0
21	AU	25/27 (92%)	0.91	3 (12%) 9 6	91, 151, 184, 201	0
21	CU	25/27 (92%)	2.22	9 (36%) 1 1	84, 159, 199, 201	0
22	AV	77/77 (100%)	0.13	2 (2%) 57 37	55, 106, 161, 194	0
22	AW	77/77 (100%)	0.97	7 (9%) 15 9	125, 201, 201, 201	0
22	CV	77/77 (100%)	0.96	9 (11%) 9 6	50, 131, 174, 182	0
22	CW	77/77 (100%)	0.99	7 (9%) 15 9	146, 201, 201, 201	0
23	AX	16/25 (64%)	0.94	3 (18%) 3 2	84, 199, 201, 201	0
24	AY	97/97 (100%)	0.92	12 (12%) 8 6	2, 149, 189, 201	1 (1%)
24	CY	16/97 (16%)	0.82	1 (6%) 26 17	130, 157, 201, 201	0
25	B0	84/85 (98%)	0.40	3 (3%) 46 28	51, 90, 164, 196	0
25	D0	84/85 (98%)	0.74	4 (4%) 35 22	70, 105, 166, 191	0
26	B1	94/98 (95%)	0.21	8 (8%) 16 11	44, 76, 145, 161	0
26	D1	94/98 (95%)	0.02	2 (2%) 63 43	41, 74, 139, 159	0
27	B2	71/72 (98%)	0.19	2 (2%) 55 35	65, 103, 150, 169	0
27	D2	71/72 (98%)	-0.20	1 (1%) 73 54	42, 71, 129, 195	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	B3	60/60 (100%)	0.07	0 100 100	42, 88, 148, 201	0
28	D3	60/60 (100%)	0.02	0 100 100	50, 87, 142, 200	0
29	B4	56/71 (78%)	0.43	1 (1%) 67 48	96, 160, 187, 197	0
29	D4	56/71 (78%)	0.73	2 (3%) 46 28	122, 176, 201, 201	0
30	B5	59/60 (98%)	0.32	4 (6%) 23 15	37, 70, 174, 181	0
30	D5	59/60 (98%)	0.36	3 (5%) 33 21	27, 75, 177, 201	0
31	B6	45/54 (83%)	1.06	8 (17%) 4 3	97, 141, 184, 187	0
31	D6	45/54 (83%)	1.25	7 (15%) 5 4	103, 161, 195, 199	0
32	B7	49/49 (100%)	-0.10	0 100 100	38, 55, 112, 194	0
32	D7	49/49 (100%)	-0.24	1 (2%) 65 45	21, 40, 108, 159	0
33	B8	64/65 (98%)	0.50	4 (6%) 26 17	32, 72, 132, 200	0
33	D8	64/65 (98%)	0.83	7 (10%) 10 7	41, 83, 148, 201	0
34	B9	36/37 (97%)	1.06	8 (22%) 2 2	83, 123, 168, 201	0
34	D9	36/37 (97%)	1.44	10 (27%) 1 1	91, 128, 167, 197	0
35	BA	2807/2848 (98%)	-0.14	65 (2%) 61 41	32, 74, 188, 201	0
35	DA	2807/2848 (98%)	0.08	85 (3%) 52 33	29, 77, 189, 201	0
36	BB	119/122 (97%)	0.55	4 (3%) 48 30	76, 130, 181, 201	0
36	DB	119/122 (97%)	0.84	12 (10%) 12 8	87, 151, 189, 200	0
37	BC	191/229 (83%)	0.89	19 (9%) 13 8	160, 198, 201, 201	0
37	DC	191/229 (83%)	0.94	23 (12%) 9 6	154, 197, 201, 201	0
38	BD	272/276 (98%)	0.09	7 (2%) 57 37	38, 71, 107, 184	0
38	DD	272/276 (98%)	0.27	8 (2%) 53 35	32, 68, 111, 185	0
39	BE	205/206 (99%)	0.29	11 (5%) 31 20	36, 83, 157, 201	0
39	DE	205/206 (99%)	0.49	13 (6%) 26 17	25, 91, 157, 201	0
40	BF	208/210 (99%)	0.06	2 (0%) 79 63	30, 73, 156, 186	0
40	DF	208/210 (99%)	0.17	6 (2%) 53 35	24, 78, 165, 196	0
41	BG	181/182 (99%)	0.48	7 (3%) 43 27	79, 142, 188, 201	0
41	DG	181/182 (99%)	0.61	11 (6%) 27 17	92, 155, 193, 201	0
42	BH	165/180 (91%)	0.82	18 (10%) 10 7	90, 157, 193, 201	0
42	DH	165/180 (91%)	0.59	11 (6%) 24 15	55, 112, 158, 182	0
43	BI	145/148 (97%)	1.66	49 (33%) 1 1	60, 161, 201, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	DI	145/148 (97%)	0.95	15 (10%) 12 8	70, 130, 200, 201	0
44	BJ	0/131	-	-	-	-
44	DJ	0/131	-	-	-	-
45	BN	139/140 (99%)	0.21	5 (3%) 46 28	52, 88, 145, 201	0
45	DN	139/140 (99%)	0.09	3 (2%) 62 42	44, 79, 140, 189	0
46	BO	122/122 (100%)	-0.13	1 (0%) 82 67	42, 72, 101, 178	0
46	DO	122/122 (100%)	0.81	13 (10%) 11 7	59, 104, 154, 201	0
47	BP	146/150 (97%)	0.65	16 (10%) 10 7	26, 92, 150, 197	0
47	DP	146/150 (97%)	0.87	23 (15%) 5 4	35, 96, 170, 198	0
48	BQ	141/141 (100%)	0.31	5 (3%) 47 29	48, 89, 132, 201	0
48	DQ	141/141 (100%)	0.77	18 (12%) 7 6	53, 106, 159, 191	0
49	BR	117/118 (99%)	0.24	6 (5%) 33 21	39, 76, 125, 150	0
49	DR	117/118 (99%)	0.67	8 (6%) 23 15	53, 90, 147, 162	0
50	BS	99/112 (88%)	0.88	13 (13%) 7 6	75, 133, 182, 189	0
50	DS	99/112 (88%)	1.39	25 (25%) 1 2	95, 145, 196, 201	0
51	BT	138/146 (94%)	0.26	4 (2%) 53 35	51, 87, 182, 201	0
51	DT	138/146 (94%)	0.78	18 (13%) 7 6	68, 131, 194, 201	0
52	BU	117/118 (99%)	0.06	4 (3%) 48 30	37, 73, 137, 201	0
52	DU	117/118 (99%)	-0.03	4 (3%) 48 30	25, 62, 114, 174	0
53	BV	101/101 (100%)	0.33	4 (3%) 42 26	35, 103, 143, 201	0
53	DV	101/101 (100%)	0.07	4 (3%) 42 26	32, 80, 126, 180	0
54	BW	113/113 (100%)	0.03	2 (1%) 67 48	43, 70, 133, 201	0
54	DW	113/113 (100%)	-0.19	1 (0%) 81 64	37, 60, 118, 187	0
55	BX	93/96 (96%)	0.17	0 100 100	43, 89, 125, 140	0
55	DX	93/96 (96%)	-0.08	1 (1%) 78 61	43, 65, 114, 153	0
56	BY	101/110 (91%)	0.86	14 (13%) 6 5	63, 109, 182, 201	0
56	DY	101/110 (91%)	0.85	17 (16%) 4 3	54, 99, 176, 201	0
57	BZ	187/206 (90%)	0.27	4 (2%) 63 43	74, 121, 171, 201	0
57	DZ	187/206 (90%)	0.43	10 (5%) 32 20	76, 133, 187, 201	0
58	CX	8/25 (32%)	1.42	4 (50%) 0 1	106, 165, 200, 201	0
All	All	21297/22390 (95%)	0.46	1622 (7%) 20 13	2, 111, 198, 201	1 (0%)

All (1622) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
24	AY	46	ASP	16.2
14	CN	2	ALA	11.7
14	AN	2	ALA	8.3
50	DS	30	ARG	8.3
43	BI	119	PRO	7.6
37	DC	170	ALA	7.3
43	DI	88	ILE	7.1
43	BI	120	ILE	7.1
43	BI	68	LEU	7.0
43	BI	100	ALA	6.9
10	CJ	72	VAL	6.6
10	CJ	54	PHE	6.5
2	CB	163	PHE	6.1
30	B5	2	ALA	6.0
10	AJ	54	PHE	5.9
16	CP	31	LYS	5.9
1	CA	89	C	5.9
10	AJ	58	ASP	5.9
4	CD	157	LEU	5.9
43	BI	109	ILE	5.8
43	DI	101	LEU	5.8
35	DA	2115	G	5.8
22	CV	53	G	5.7
35	DA	2112	G	5.7
14	CN	31	ARG	5.7
50	DS	43	GLU	5.6
43	BI	72	LEU	5.5
25	D0	2	ALA	5.5
35	BA	652	C	5.4
10	CJ	53	PRO	5.3
10	CJ	71	LEU	5.3
43	DI	92	VAL	5.3
10	CJ	61	GLU	5.3
1	AA	83	U	5.3
1	CA	353	A	5.3
35	DA	2111	C	5.3
42	BH	12	PRO	5.2
48	BQ	141	GLN	5.2
43	BI	94	ALA	5.2
43	BI	97	ILE	5.2
43	DI	108	THR	5.2
24	AY	58	ALA	5.2
1	CA	7	G	5.2

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Mol	Chain	Res	Type	RSRZ
41	BG	2	PRO	5.2
30	D5	60	VAL	5.1
1	CA	1331	G	5.1
25	B0	2	ALA	5.1
30	D5	2	ALA	5.1
13	AM	102	ARG	5.1
43	DI	90	GLY	5.1
3	CC	149	ALA	5.0
37	DC	38	ASP	5.0
42	DH	45	VAL	5.0
21	CU	21	TYR	5.0
22	CV	52	G	5.0
37	DC	99	ILE	5.0
19	CS	4	SER	5.0
1	CA	975	A	4.9
21	CU	7	ARG	4.9
50	DS	33	LYS	4.9
35	BA	2115	G	4.9
3	AC	10	PHE	4.9
10	AJ	38	ILE	4.9
21	CU	18	TYR	4.9
43	BI	92	VAL	4.9
51	DT	25	GLY	4.8
43	BI	66	GLU	4.8
1	CA	331	G	4.8
21	CU	14	TRP	4.8
1	CA	65	U	4.7
1	CA	66	G	4.7
12	CL	97	ILE	4.7
1	CA	501	C	4.7
1	CA	428	G	4.7
1	CA	575	G	4.7
43	BI	71	ILE	4.6
2	CB	99	GLY	4.6
17	CQ	68	ARG	4.6
10	CJ	73	ASP	4.6
35	DA	2113	U	4.6
43	DI	98	ALA	4.6
43	BI	111	PRO	4.5
13	CM	95	GLY	4.5
20	CT	22	ARG	4.5
35	BA	279	C	4.5

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Mol	Chain	Res	Type	RSRZ
43	BI	134	PRO	4.5
1	CA	569	C	4.5
1	CA	550	G	4.5
9	CI	106	ALA	4.5
49	DR	2	ARG	4.5
3	CC	169	ALA	4.4
50	BS	45	GLY	4.4
10	CJ	35	SER	4.4
47	BP	65	ARG	4.4
8	CH	2	LEU	4.4
50	DS	35	ILE	4.4
11	CK	123	LYS	4.4
1	CA	557	G	4.4
1	AA	1030(B)	C	4.4
37	BC	170	ALA	4.4
56	BY	59	GLY	4.4
2	CB	68	ILE	4.4
35	BA	2170	A	4.4
4	CD	156	GLU	4.3
5	CE	121	LYS	4.3
1	CA	1502	A	4.3
35	DA	2108	C	4.3
5	CE	122	GLU	4.3
21	CU	4	GLY	4.3
34	D9	20	HIS	4.3
1	CA	27	G	4.3
48	DQ	22	LYS	4.3
38	DD	244	ARG	4.3
1	CA	934	C	4.3
10	CJ	52	GLY	4.3
13	CM	27	LYS	4.2
10	CJ	63	PHE	4.2
56	BY	86	ARG	4.2
31	B6	42	TRP	4.2
4	CD	125	HIS	4.2
4	AD	115	ARG	4.2
2	CB	152	PHE	4.2
42	DH	145	ALA	4.2
43	BI	138	ILE	4.2
43	DI	83	ALA	4.2
31	D6	24	GLU	4.2
35	DA	2109	U	4.2

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Mol	Chain	Res	Type	RSRZ
1	CA	88	A	4.2
1	CA	172	A	4.2
16	CP	13	HIS	4.2
5	AE	19	MET	4.2
45	BN	3	THR	4.2
4	CD	120	LEU	4.1
41	DG	133	LEU	4.1
1	AA	1214	C	4.1
1	CA	1223	C	4.1
1	CA	1141	C	4.1
1	CA	933	G	4.1
33	D8	46	ARG	4.1
52	DU	58	ARG	4.1
3	AC	33	LEU	4.1
4	CD	93	PHE	4.1
22	AV	54	U	4.1
1	CA	26	A	4.0
50	DS	87	PHE	4.0
3	AC	13	GLY	4.0
33	B8	32	LEU	4.0
47	DP	27	HIS	4.0
1	CA	407	G	4.0
8	CH	116	LYS	4.0
39	DE	76	ARG	4.0
1	CA	559	A	4.0
35	BA	1544	A	4.0
35	DA	1048	A	4.0
35	DA	2114	A	4.0
22	CV	62	C	4.0
12	CL	42	PRO	4.0
5	CE	85	GLY	4.0
34	D9	37	GLY	4.0
43	DI	121	LYS	4.0
8	CH	62	TYR	4.0
1	CA	973	G	4.0
4	AD	42	GLN	4.0
24	AY	57	GLN	4.0
47	BP	27	HIS	4.0
35	DA	2144	U	4.0
31	D6	39	TYR	4.0
40	DF	24	LEU	4.0
46	DO	27	GLY	3.9

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Mol	Chain	Res	Type	RSRZ
38	DD	262	ARG	3.9
9	CI	43	ALA	3.9
1	CA	821	G	3.9
12	CL	115	SER	3.9
56	DY	91	GLU	3.9
52	BU	97	ASP	3.9
9	CI	8	GLY	3.9
48	DQ	141	GLN	3.9
43	DI	63	ALA	3.9
3	CC	3	ASN	3.9
1	AA	1190	G	3.9
1	CA	21	G	3.9
3	AC	167	TRP	3.9
24	AY	4	ASP	3.9
9	CI	127	LYS	3.9
13	AM	99	ARG	3.9
56	BY	45	VAL	3.9
1	CA	626	U	3.9
13	AM	50	GLU	3.8
35	DA	2119	A	3.8
35	BA	280	C	3.8
19	CS	71	LEU	3.8
11	CK	42	TRP	3.8
12	CL	68	PRO	3.8
7	AG	33	ASP	3.8
35	BA	2169	A	3.8
36	DB	4	C	3.8
1	CA	524	G	3.8
1	CA	1202	G	3.8
22	CV	63	G	3.8
16	CP	1	MET	3.8
1	CA	152	A	3.8
8	AH	1	MET	3.8
1	CA	352	C	3.8
1	CA	796	C	3.8
12	CL	4	ILE	3.8
39	DE	62	PRO	3.8
1	CA	354	G	3.8
1	CA	926	G	3.8
37	DC	26	ALA	3.8
1	CA	1190	G	3.7
50	DS	96	GLY	3.7

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Mol	Chain	Res	Type	RSRZ
8	CH	129	VAL	3.7
1	CA	1201	A	3.7
2	CB	215	LEU	3.7
56	BY	60	PHE	3.7
43	BI	70	GLU	3.7
50	DS	107	GLU	3.7
1	AA	945	G	3.7
37	DC	215	THR	3.7
49	BR	2	ARG	3.7
4	AD	146	ILE	3.7
1	CA	974	A	3.7
35	DA	1544	A	3.7
49	DR	10	LEU	3.7
1	CA	990	C	3.7
21	CU	26	LYS	3.7
43	BI	116	LEU	3.7
10	AJ	55	LYS	3.7
1	CA	1129	C	3.7
35	DA	2477	C	3.7
52	BU	58	ARG	3.7
48	DQ	68	ILE	3.7
43	DI	72	LEU	3.7
8	CH	130	GLY	3.7
1	CA	1049	U	3.6
30	B5	54	GLY	3.6
50	BS	87	PHE	3.6
42	BH	10	PRO	3.6
14	AN	20	ALA	3.6
1	CA	1504	G	3.6
1	CA	1395	C	3.6
14	AN	30	ALA	3.6
22	CW	34	C	3.6
1	CA	1065	U	3.6
47	BP	28	GLY	3.6
10	CJ	37	PRO	3.6
1	CA	112	G	3.6
53	BV	45	THR	3.6
10	CJ	57	LYS	3.6
3	CC	101	LEU	3.6
42	BH	157	TYR	3.6
35	BA	656	G	3.5
47	BP	33	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
1	AA	1259	C	3.5
16	CP	2	VAL	3.5
19	CS	76	PRO	3.5
12	CL	82	ILE	3.5
30	B5	51	TYR	3.5
14	AN	29	ARG	3.5
50	DS	46	VAL	3.5
1	CA	794	A	3.5
31	D6	42	TRP	3.5
35	DA	2117	A	3.5
1	CA	527	G	3.5
1	CA	1489	G	3.5
10	CJ	6	ILE	3.5
13	CM	87	TYR	3.5
43	DI	89	TYR	3.5
12	CL	114	ARG	3.5
10	AJ	56	HIS	3.5
56	DY	59	GLY	3.5
5	CE	90	VAL	3.5
9	CI	108	VAL	3.5
35	BA	2310	A	3.5
1	CA	1224	G	3.5
35	BA	2131	G	3.5
45	DN	3	THR	3.5
43	BI	90	GLY	3.5
57	DZ	118	GLN	3.5
9	CI	46	ALA	3.5
14	CN	5	ALA	3.5
20	CT	72	LEU	3.5
4	CD	158	ILE	3.5
5	CE	18	ARG	3.5
13	CM	80	ARG	3.5
17	CQ	63	ARG	3.5
20	CT	84	LEU	3.5
35	BA	2108	C	3.5
22	AV	53	G	3.5
33	B8	65	GLU	3.4
10	CJ	55	LYS	3.4
48	DQ	96	VAL	3.4
31	D6	23	THR	3.4
43	BI	59	ALA	3.4
8	CH	80	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
14	CN	32	SER	3.4
43	DI	110	ASP	3.4
1	CA	64	G	3.4
1	CA	173	U	3.4
35	DA	2325	G	3.4
8	AH	4	ASP	3.4
1	CA	1270	C	3.4
17	CQ	70	ARG	3.4
47	DP	65	ARG	3.4
22	CV	54	U	3.4
1	CA	31	G	3.4
9	CI	26	VAL	3.4
47	DP	7	ARG	3.4
4	CD	90	GLY	3.4
1	CA	989	C	3.4
1	CA	619	U	3.4
9	CI	104	ARG	3.4
39	DE	75	VAL	3.4
47	BP	71	VAL	3.4
1	CA	558	G	3.4
35	BA	275	G	3.4
16	CP	56	ALA	3.4
5	CE	109	ILE	3.4
1	AA	532	A	3.3
35	DA	2892	A	3.3
1	CA	984	C	3.3
35	BA	157	U	3.3
50	DS	28	VAL	3.3
50	DS	40	ILE	3.3
34	D9	36	GLN	3.3
1	CA	380	G	3.3
1	CA	644	G	3.3
1	CA	1124	G	3.3
35	BA	1047	G	3.3
35	DA	508	G	3.3
35	DA	1910	G	3.3
22	AW	59	A	3.3
8	AH	128	GLY	3.3
37	DC	86	ALA	3.3
1	CA	366	C	3.3
1	CA	508	C	3.3
1	CA	522	C	3.3

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Mol	Chain	Res	Type	RSRZ
1	CA	1066	C	3.3
35	BA	2799	C	3.3
42	DH	44	VAL	3.3
1	CA	1117	G	3.3
7	CG	85	TYR	3.3
20	CT	64	ASP	3.3
39	BE	62	PRO	3.3
38	DD	273	ARG	3.3
1	CA	795	C	3.3
8	CH	61	VAL	3.3
38	BD	224	ALA	3.3
19	CS	78	ARG	3.3
1	CA	1081	G	3.3
35	BA	2147	G	3.3
42	BH	64	LEU	3.3
34	D9	2	LYS	3.3
35	BA	1026	U	3.3
35	DA	1912	A	3.3
1	CA	1096	C	3.3
35	BA	1532	C	3.3
36	BB	6	C	3.3
5	CE	27	ARG	3.2
4	CD	42	GLN	3.2
17	AQ	93	GLN	3.2
47	DP	68	GLN	3.2
39	DE	187	ALA	3.2
42	DH	147	ASN	3.2
43	BI	55	ALA	3.2
1	CA	60	A	3.2
1	CA	572	A	3.2
26	B1	81	ARG	3.2
49	DR	17	ARG	3.2
12	CL	45	PRO	3.2
47	BP	64	LYS	3.2
40	DF	23	ASP	3.2
2	AB	35	GLU	3.2
39	BE	151	TYR	3.2
35	BA	2109	U	3.2
5	CE	128	PRO	3.2
1	CA	506	G	3.2
1	CA	1084	G	3.2
1	CA	1435	G	3.2

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Mol	Chain	Res	Type	RSRZ
5	AE	20	GLN	3.2
35	BA	1546	C	3.2
37	BC	215	THR	3.2
43	BI	93	THR	3.2
11	AK	89	ALA	3.2
50	DS	89	ARG	3.2
7	CG	81	GLY	3.2
38	DD	147	LEU	3.2
4	CD	123	HIS	3.2
35	BA	2113	U	3.2
2	CB	107	THR	3.2
41	DG	157	ILE	3.2
47	DP	33	ARG	3.2
1	CA	873	A	3.2
1	AA	1260	C	3.2
1	CA	221	C	3.2
1	CA	1237	C	3.2
25	D0	7	LEU	3.2
51	DT	11	GLU	3.2
50	DS	36	TYR	3.2
2	CB	42	ILE	3.2
15	CO	28	GLN	3.2
38	BD	244	ARG	3.2
4	CD	152	SER	3.2
50	DS	37	ALA	3.2
43	BI	69	LYS	3.1
2	AB	97	TRP	3.1
1	CA	622	A	3.1
1	CA	1394	A	3.1
1	CA	113	G	3.1
1	CA	1312	G	3.1
11	CK	31	THR	3.1
5	CE	91	LEU	3.1
46	DO	122	LEU	3.1
4	CD	9	CYS	3.1
1	CA	961	U	3.1
3	AC	186	PHE	3.1
39	BE	61	ARG	3.1
1	CA	872	A	3.1
1	CA	1191	A	3.1
25	B0	3	HIS	3.1
5	CE	86	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
37	DC	76	ALA	3.1
53	DV	20	LEU	3.1
1	CA	577	G	3.1
1	CA	1310	G	3.1
35	DA	11	G	3.1
2	AB	152	PHE	3.1
12	CL	99	ARG	3.1
33	D8	48	PHE	3.1
51	DT	24	PRO	3.1
1	CA	1348	U	3.1
2	CB	214	ILE	3.1
37	BC	26	ALA	3.1
40	DF	26	ALA	3.1
41	BG	3	LEU	3.1
1	CA	315	A	3.1
37	BC	168	THR	3.1
40	DF	131	GLY	3.1
14	CN	3	ARG	3.1
21	AU	24	ARG	3.1
56	BY	47	LYS	3.1
1	CA	1311	G	3.1
13	CM	84	ILE	3.1
43	BI	105	HIS	3.1
9	AI	14	VAL	3.1
19	CS	35	SER	3.1
49	DR	6	SER	3.1
57	DZ	88	PHE	3.1
1	CA	33	A	3.1
1	CA	1252	A	3.1
22	AW	35	A	3.1
43	BI	80	PRO	3.1
46	DO	77	ILE	3.1
1	CA	578	C	3.0
1	CA	1107	C	3.0
1	CA	1158	C	3.0
22	CV	51	C	3.0
10	CJ	20	ALA	3.0
51	DT	94	ALA	3.0
34	D9	21	GLY	3.0
35	BA	1529	G	3.0
35	BA	2116	G	3.0
35	DA	2664	G	3.0

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Mol	Chain	Res	Type	RSRZ
56	BY	58	GLY	3.0
56	DY	2	ARG	3.0
43	BI	143	SER	3.0
57	BZ	97	GLU	3.0
5	CE	10	MET	3.0
12	CL	95	TYR	3.0
22	CW	35	A	3.0
4	CD	122	ARG	3.0
1	CA	63	C	3.0
51	BT	25	GLY	3.0
39	BE	64	LYS	3.0
10	AJ	63	PHE	3.0
37	DC	77	ILE	3.0
50	BS	39	ILE	3.0
1	CA	870	U	3.0
1	AA	1202	G	3.0
1	CA	293	G	3.0
13	AM	66	LEU	3.0
9	AI	106	ALA	3.0
56	BY	88	LYS	3.0
1	CA	374	A	3.0
46	DO	43	VAL	3.0
5	CE	45	PHE	3.0
42	BH	68	THR	3.0
1	CA	54	C	3.0
1	CA	67	C	3.0
1	CA	1242	C	3.0
35	DA	2174	C	3.0
3	CC	201	TYR	3.0
14	CN	41	ARG	3.0
16	CP	8	ARG	3.0
24	AY	65	ARG	3.0
43	BI	98	ALA	3.0
1	CA	551	U	3.0
1	AA	1053	G	3.0
1	CA	3	G	3.0
1	CA	6	G	3.0
1	CA	541	G	3.0
4	CD	31	CYS	3.0
35	DA	2120	G	3.0
12	CL	67	ILE	3.0
33	D8	56	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	CA	574	A	3.0
43	BI	58	LEU	3.0
1	CA	47	C	3.0
10	CJ	56	HIS	3.0
42	BH	11	VAL	3.0
56	BY	102	CYS	3.0
56	DY	89	PHE	3.0
9	CI	74	ILE	3.0
13	CM	88	ARG	2.9
35	BA	2793	G	2.9
12	CL	44	LYS	2.9
13	CM	18	ALA	2.9
43	BI	91	SER	2.9
1	CA	408	A	2.9
1	CA	431	A	2.9
35	BA	2801	A	2.9
4	AD	112	VAL	2.9
25	D0	73	GLY	2.9
42	BH	50	VAL	2.9
48	DQ	100	GLY	2.9
2	AB	163	PHE	2.9
1	CA	335	C	2.9
1	CA	400	C	2.9
35	BA	2161	C	2.9
4	CD	21	LEU	2.9
7	CG	4	ARG	2.9
8	AH	2	LEU	2.9
51	DT	58	ASN	2.9
36	DB	34	U	2.9
7	CG	103	TRP	2.9
21	CU	25	LYS	2.9
38	BD	36	PRO	2.9
16	CP	30	GLY	2.9
1	AA	505	G	2.9
1	CA	1068	G	2.9
1	CA	1491	G	2.9
32	D7	49	ARG	2.9
19	CS	65	ASN	2.9
56	BY	92	ASN	2.9
1	CA	401	C	2.9
9	AI	65	VAL	2.9
48	DQ	97	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
49	DR	8	ARG	2.9
10	AJ	7	LYS	2.9
1	AA	1224	G	2.9
1	CA	874	G	2.9
1	CA	1222	G	2.9
23	AX	18	G	2.9
35	DA	656	G	2.9
35	DA	2104	G	2.9
42	BH	74	ASN	2.9
1	CA	134	A	2.9
1	CA	1225	A	2.9
1	CA	1396	A	2.9
33	D8	34	TRP	2.9
13	CM	17	VAL	2.9
2	CB	18	GLY	2.9
35	DA	1053	C	2.9
35	DA	2105	C	2.9
47	BP	22	GLY	2.9
10	CJ	40	LEU	2.9
16	CP	33	ILE	2.9
16	CP	36	ILE	2.9
37	BC	47	LEU	2.9
49	BR	6	SER	2.9
55	DX	3	THR	2.9
37	BC	139	ASN	2.9
49	DR	11	ASN	2.9
53	BV	93	GLU	2.9
4	CD	133	VAL	2.9
9	AI	41	VAL	2.9
9	CI	109	VAL	2.9
1	AA	1124	G	2.9
1	CA	28	G	2.9
1	CA	39	G	2.9
1	CA	357	G	2.9
1	CA	402	G	2.9
1	CA	928	G	2.9
1	CA	1216	G	2.9
1	CA	1337	G	2.9
4	AD	21	LEU	2.9
4	CD	18	LYS	2.9
35	DA	1919	A	2.9
5	CE	139	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
35	DA	2382	G	2.9
1	CA	135	C	2.8
1	CA	1214	C	2.8
35	DA	867	C	2.8
35	DA	2118	U	2.8
35	DA	2175	C	2.8
16	CP	45	THR	2.8
4	CD	8	VAL	2.8
51	DT	54	ARG	2.8
38	BD	38	LYS	2.8
48	DQ	8	LYS	2.8
4	CD	19	LEU	2.8
12	CL	117	TYR	2.8
26	B1	95	LEU	2.8
1	AA	1123	A	2.8
1	AA	1157	A	2.8
1	CA	1345	U	2.8
43	BI	86	THR	2.8
1	CA	174	C	2.8
49	BR	8	ARG	2.8
56	DY	49	VAL	2.8
11	AK	51	LYS	2.8
57	BZ	46	LYS	2.8
2	AB	58	ILE	2.8
7	AG	81	GLY	2.8
12	CL	29	PHE	2.8
47	DP	51	PHE	2.8
4	CD	10	ARG	2.8
48	DQ	10	ARG	2.8
13	AM	7	VAL	2.8
1	CA	621	A	2.8
1	CA	12	U	2.8
33	D8	32	LEU	2.8
42	BH	71	LEU	2.8
43	BI	77	LEU	2.8
1	CA	488	C	2.8
1	CA	587	G	2.8
1	CA	616	G	2.8
1	CA	657	G	2.8
1	CA	837	G	2.8
1	CA	1108	G	2.8
35	BA	2155	G	2.8

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Mol	Chain	Res	Type	RSRZ
35	BA	2477	C	2.8
42	DH	83	TYR	2.8
19	CS	75	ALA	2.8
37	BC	41	VAL	2.8
53	BV	37	VAL	2.8
56	BY	82	PRO	2.8
31	D6	10	LEU	2.8
37	DC	75	LEU	2.8
43	BI	99	GLU	2.8
10	CJ	47	PHE	2.8
37	BC	169	GLY	2.8
1	CA	368	U	2.8
1	CA	429	U	2.8
1	CA	1067	A	2.8
35	DA	1175	U	2.8
24	AY	10	HIS	2.8
34	D9	4	ARG	2.8
1	AA	1028	C	2.8
1	CA	879	C	2.8
1	CA	1243	C	2.8
35	DA	1532	C	2.8
1	CA	333	G	2.8
1	CA	966	G	2.8
10	CJ	49	VAL	2.8
56	DY	82	PRO	2.8
12	CL	113	SER	2.8
29	D4	24	THR	2.8
34	B9	26	ILE	2.8
39	DE	14	ILE	2.8
16	AP	68	ASP	2.7
9	CI	62	TYR	2.7
1	AA	81	U	2.7
1	CA	51	A	2.7
36	DB	48	A	2.7
7	CG	101	LEU	2.7
1	CA	1363	C	2.7
1	CA	1437	C	2.7
9	CI	33	PHE	2.7
22	AW	48	C	2.7
35	DA	2804	C	2.7
7	CG	34	GLY	2.7
26	B1	79	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
33	D8	45	GLY	2.7
1	CA	413	G	2.7
1	CA	1334	G	2.7
14	CN	57	ARG	2.7
3	CC	193	TYR	2.7
16	CP	35	LYS	2.7
31	B6	20	ASN	2.7
48	BQ	22	LYS	2.7
2	CB	188	ALA	2.7
4	CD	105	VAL	2.7
4	CD	135	LEU	2.7
20	CT	104	LEU	2.7
1	CA	1205	U	2.7
46	DO	114	ILE	2.7
1	CA	1503	A	2.7
35	BA	2892	A	2.7
18	CR	54	ARG	2.7
51	DT	96	ARG	2.7
1	CA	1039	C	2.7
48	BQ	25	ASP	2.7
9	AI	36	TYR	2.7
3	CC	195	VAL	2.7
15	CO	11	VAL	2.7
57	BZ	116	VAL	2.7
12	CL	81	LEU	2.7
47	DP	138	LEU	2.7
50	BS	73	LEU	2.7
1	CA	29	G	2.7
1	CA	761	G	2.7
1	CA	1139	G	2.7
35	DA	272(B)	G	2.7
35	DA	2308	G	2.7
43	DI	138	ILE	2.7
56	BY	44	ILE	2.7
4	CD	33	MET	2.7
4	AD	3	ARG	2.7
14	CN	28	GLY	2.7
50	DS	13	ARG	2.7
16	CP	12	LYS	2.7
45	BN	109	LYS	2.7
48	DQ	63	LYS	2.7
1	AA	1281	U	2.7

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Mol	Chain	Res	Type	RSRZ
35	DA	403	U	2.7
1	CA	547	A	2.7
1	CA	1236	A	2.7
42	BH	43	VAL	2.7
11	CK	117	ASN	2.7
1	CA	536	C	2.7
2	CB	108	ILE	2.7
12	CL	28	PRO	2.7
35	DA	2143	C	2.7
48	DQ	104	PHE	2.7
12	CL	116	LYS	2.7
38	DD	38	LYS	2.7
41	DG	129	GLY	2.7
1	CA	11	G	2.7
1	CA	317	G	2.7
1	CA	1338	G	2.7
22	CW	49	G	2.7
35	BA	2318	G	2.7
50	DS	27	SER	2.7
56	DY	52	SER	2.7
12	CL	53	ALA	2.7
20	CT	62	LEU	2.7
43	BI	130	TYR	2.7
52	DU	91	ASP	2.7
1	CA	373	A	2.6
9	AI	37	PHE	2.6
17	CQ	26	GLN	2.6
57	DZ	98	MET	2.6
11	CK	51	LYS	2.6
14	CN	58	LYS	2.6
38	DD	35	LYS	2.6
47	BP	24	GLY	2.6
1	AA	972	C	2.6
1	CA	549	C	2.6
1	CA	589	C	2.6
1	CA	620	C	2.6
1	CA	868	C	2.6
1	CA	1075	C	2.6
1	CA	1344	C	2.6
56	BY	91	GLU	2.6
14	CN	49	HIS	2.6
49	BR	3	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
1	CA	105	G	2.6
1	CA	189(G)	G	2.6
1	CA	869	G	2.6
1	CA	1048	G	2.6
17	AQ	13	ASP	2.6
34	D9	35	ARG	2.6
35	BA	11	G	2.6
35	BA	281	G	2.6
41	BG	101	ILE	2.6
43	BI	110	ASP	2.6
1	CA	13	U	2.6
34	B9	8	LYS	2.6
47	BP	107	LYS	2.6
2	AB	18	GLY	2.6
1	CA	32	A	2.6
1	CA	968	A	2.6
4	CD	96	LEU	2.6
4	CD	128	VAL	2.6
26	D1	95	LEU	2.6
34	D9	3	VAL	2.6
41	DG	135	LEU	2.6
43	BI	128	LEU	2.6
50	BS	14	VAL	2.6
57	DZ	27	VAL	2.6
1	AA	979	C	2.6
1	CA	1113	C	2.6
35	BA	1411	C	2.6
16	CP	17	TYR	2.6
41	DG	136	ARG	2.6
50	BS	34	HIS	2.6
53	DV	6	LYS	2.6
54	BW	6	ILE	2.6
10	AJ	37	PRO	2.6
39	DE	60	ASN	2.6
21	AU	16	GLY	2.6
1	AA	82	U	2.6
1	CA	30	U	2.6
1	CA	79	G	2.6
1	CA	378	G	2.6
35	DA	1959	G	2.6
35	DA	2125	G	2.6
37	DC	47	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
43	BI	108	THR	2.6
47	DP	105	LEU	2.6
4	CD	32	ALA	2.6
11	CK	122	LYS	2.6
12	CL	43	LYS	2.6
40	BF	103	LYS	2.6
4	CD	20	TYR	2.6
9	AI	125	TYR	2.6
34	B9	6	SER	2.6
51	DT	12	SER	2.6
37	DC	37	PHE	2.6
1	CA	91	C	2.6
1	CA	1226	C	2.6
35	DA	1052	C	2.6
37	BC	80	GLY	2.6
26	B1	83	GLU	2.6
48	BQ	53	ALA	2.6
1	CA	90	U	2.6
13	CM	91	ARG	2.6
15	CO	35	ARG	2.6
56	DY	86	ARG	2.6
19	CS	40	ILE	2.6
1	CA	406	G	2.6
1	CA	658	G	2.6
1	CA	1074	G	2.6
9	AI	114	TYR	2.6
14	AN	34	TYR	2.6
22	AW	52	G	2.6
35	BA	2160	G	2.6
36	DB	119	G	2.6
1	CA	946	A	2.6
1	CA	977	A	2.6
22	CW	76	A	2.6
51	BT	4	GLY	2.6
41	DG	34	LEU	2.6
47	BP	105	LEU	2.6
4	CD	200	GLU	2.6
35	DA	1752	C	2.6
38	DD	237	GLU	2.6
43	BI	122	GLU	2.6
10	CJ	70	ARG	2.6
12	CL	52	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
43	BI	50	ARG	2.6
31	D6	21	TYR	2.5
37	BC	96	GLY	2.5
9	CI	40	LEU	2.5
19	CS	5	LEU	2.5
1	AA	79	G	2.5
1	CA	502	G	2.5
1	CA	529	G	2.5
4	AD	36	ARG	2.5
20	CT	80	ARG	2.5
22	AW	18	G	2.5
35	BA	2795	G	2.5
35	DA	1107	G	2.5
43	BI	96	ASP	2.5
1	CA	573	A	2.5
23	AX	13	A	2.5
35	BA	2801(A)	A	2.5
48	DQ	20	ALA	2.5
7	CG	27	ILE	2.5
8	AH	35	ILE	2.5
9	CI	103	THR	2.5
1	AA	1027	C	2.5
1	CA	295	C	2.5
1	CA	330	C	2.5
1	CA	489	C	2.5
1	CA	1103	C	2.5
14	CN	34	TYR	2.5
56	DY	102	CYS	2.5
11	AK	56	GLY	2.5
51	DT	93	ARG	2.5
41	DG	160	VAL	2.5
50	BS	107	GLU	2.5
1	CA	1285	A	2.5
35	DA	2310	A	2.5
1	CA	399	G	2.5
35	BA	2104	G	2.5
35	DA	2645	G	2.5
43	BI	133	HIS	2.5
51	DT	100	TYR	2.5
3	CC	12	LEU	2.5
7	CG	16	LEU	2.5
1	CA	355	C	2.5

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Mol	Chain	Res	Type	RSRZ
1	CA	701	C	2.5
1	CA	1501	C	2.5
2	AB	96	ARG	2.5
12	CL	90	LEU	2.5
16	CP	27	LYS	2.5
31	D6	13	CYS	2.5
41	DG	85	GLY	2.5
50	DS	70	GLY	2.5
43	BI	104	GLN	2.5
49	BR	91	GLN	2.5
56	DY	17	SER	2.5
7	AG	61	VAL	2.5
7	AG	83	ALA	2.5
12	CL	27	ALA	2.5
43	BI	65	ALA	2.5
10	CJ	69	ASN	2.5
24	CY	8	ASP	2.5
37	BC	49	ILE	2.5
45	BN	1	MET	2.5
56	DY	5	MET	2.5
2	CB	54	THR	2.5
37	BC	217	THR	2.5
3	CC	91	LEU	2.5
9	AI	127	LYS	2.5
17	AQ	100	LYS	2.5
42	DH	7	LEU	2.5
47	DP	107	LYS	2.5
34	B9	37	GLY	2.5
35	BA	2134	A	2.5
2	AB	164	VAL	2.5
47	DP	71	VAL	2.5
1	CA	1156	G	2.5
6	AF	76	ALA	2.5
14	CN	20	ALA	2.5
16	CP	77	ALA	2.5
35	BA	2751	G	2.5
43	BI	63	ALA	2.5
1	CA	433	C	2.5
35	DA	2324	C	2.5
37	DC	50	ASP	2.5
1	CA	427	U	2.5
12	AL	88	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
9	CI	102	LEU	2.5
19	AS	15	LEU	2.5
21	AU	6	ARG	2.5
47	BP	109	GLY	2.5
50	DS	45	GLY	2.5
45	BN	18	ALA	2.4
38	BD	105	ILE	2.4
1	CA	523	A	2.4
1	CA	1286	A	2.4
14	CN	36	PHE	2.4
5	CE	135	THR	2.4
13	CM	103	THR	2.4
16	AP	69	THR	2.4
19	CS	79	THR	2.4
37	BC	23	ASP	2.4
1	AA	1129	C	2.4
1	CA	34	C	2.4
1	CA	36	C	2.4
1	CA	46	G	2.4
1	CA	61	G	2.4
1	CA	110	C	2.4
1	CA	111	G	2.4
1	CA	306	G	2.4
1	CA	320	C	2.4
1	CA	916	G	2.4
1	CA	1071	C	2.4
1	CA	1488	G	2.4
35	BA	274	G	2.4
35	BA	2402	C	2.4
35	DA	2834	G	2.4
43	BI	101	LEU	2.4
12	CL	2	PRO	2.4
2	AB	40	HIS	2.4
29	D4	25	TYR	2.4
39	BE	116	VAL	2.4
3	AC	189	ALA	2.4
2	AB	42	ILE	2.4
42	BH	72	ILE	2.4
46	DO	116	SER	2.4
50	BS	52	SER	2.4
6	CF	60	PHE	2.4
2	CB	217	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
3	CC	150	LYS	2.4
5	CE	43	LEU	2.4
1	CA	487	A	2.4
5	CE	98	THR	2.4
21	CU	17	THR	2.4
35	BA	548	A	2.4
35	DA	1664	A	2.4
3	AC	201	TYR	2.4
10	AJ	72	VAL	2.4
12	AL	15	VAL	2.4
45	DN	24	GLY	2.4
1	CA	972	C	2.4
1	CA	631	G	2.4
1	CA	1033	G	2.4
1	CA	1185	G	2.4
3	AC	5	ILE	2.4
9	CI	15	ALA	2.4
10	CJ	4	ILE	2.4
20	CT	33	ILE	2.4
35	DA	2803	C	2.4
48	BQ	140	ALA	2.4
22	CV	31	G	2.4
35	DA	271(X)	G	2.4
35	DA	2659	G	2.4
51	DT	90	GLN	2.4
47	BP	7	ARG	2.4
15	CO	57	LEU	2.4
3	CC	192	THR	2.4
37	DC	216	THR	2.4
4	CD	17	VAL	2.4
13	CM	16	ASP	2.4
46	DO	57	VAL	2.4
16	CP	38	TYR	2.4
41	BG	42	GLY	2.4
47	DP	43	GLY	2.4
57	DZ	32	HIS	2.4
1	AA	977	A	2.4
1	CA	430	A	2.4
35	BA	2173	A	2.4
25	B0	74	ARG	2.4
1	CA	83	U	2.4
1	CA	84	U	2.4

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Mol	Chain	Res	Type	RSRZ
1	CA	623	C	2.4
1	CA	1086	U	2.4
1	CA	1506	U	2.4
3	CC	87	LEU	2.4
12	CL	7	LEU	2.4
22	CV	32	C	2.4
35	DA	1018	C	2.4
42	DH	46	GLU	2.4
47	DP	123	LEU	2.4
1	CA	69	G	2.4
1	CA	124	G	2.4
1	CA	260	G	2.4
1	CA	289	G	2.4
1	CA	852	G	2.4
1	CA	861	G	2.4
1	CA	1002	G	2.4
35	DA	1047	G	2.4
35	DA	1455	G	2.4
35	DA	1702	G	2.4
35	DA	2168	G	2.4
2	CB	81	VAL	2.4
19	CS	41	VAL	2.4
41	DG	28	VAL	2.4
48	DQ	4	PRO	2.4
56	DY	3	VAL	2.4
3	AC	3	ASN	2.4
56	DY	22	GLY	2.4
13	CM	21	TYR	2.4
5	AE	18	ARG	2.4
43	BI	67	ARG	2.4
51	DT	1	MET	2.4
9	CI	87	GLN	2.4
24	AY	70	GLN	2.4
47	DP	70	GLN	2.4
2	CB	70	PHE	2.4
24	AY	2	PHE	2.4
41	BG	80	PHE	2.4
9	AI	40	LEU	2.4
9	CI	50	LEU	2.4
1	AA	1442(B)	A	2.4
1	CA	197	A	2.4
1	CA	1005	A	2.4

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Mol	Chain	Res	Type	RSRZ
1	CA	1339	A	2.4
33	B8	56	GLU	2.4
35	BA	2114	A	2.4
47	DP	40	SER	2.4
52	DU	90	VAL	2.4
1	CA	291	C	2.3
1	CA	436	C	2.3
1	CA	643	C	2.3
50	DS	47	THR	2.3
5	AE	73	ASN	2.3
11	CK	71	LYS	2.3
48	DQ	85	LYS	2.3
9	CI	128	ARG	2.3
16	CP	26	ARG	2.3
51	DT	52	ILE	2.3
1	AA	80	G	2.3
1	AA	944	G	2.3
1	AA	1048	G	2.3
1	CA	351	G	2.3
1	CA	570	G	2.3
1	CA	730	G	2.3
1	CA	818	G	2.3
1	CA	1215	G	2.3
1	CA	1220	G	2.3
35	BA	1888	G	2.3
35	BA	2123	G	2.3
35	BA	2168	G	2.3
35	DA	2318	G	2.3
50	BS	12	PHE	2.3
10	CJ	101	VAL	2.3
13	AM	60	VAL	2.3
14	AN	18	VAL	2.3
9	AI	123	PRO	2.3
1	CA	535	A	2.3
38	DD	12	SER	2.3
34	B9	2	LYS	2.3
39	DE	69	LYS	2.3
10	CJ	38	ILE	2.3
1	AA	84	U	2.3
1	AA	1235	U	2.3
1	CA	1364	U	2.3
6	CF	7	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
7	AG	85	TYR	2.3
7	CG	151	TYR	2.3
12	CL	66	TYR	2.3
31	B6	26	ASN	2.3
1	AA	1249	C	2.3
1	CA	311	C	2.3
1	CA	403	C	2.3
1	CA	883	C	2.3
1	CA	1267	C	2.3
9	AI	12	GLU	2.3
26	B1	72	GLU	2.3
30	D5	59	GLU	2.3
1	CA	35	G	2.3
1	CA	108	G	2.3
1	CA	266	G	2.3
1	CA	384	G	2.3
1	CA	1353	G	2.3
3	AC	103	VAL	2.3
35	DA	1835	G	2.3
35	DA	2110	G	2.3
35	DA	2116	G	2.3
38	BD	35	LYS	2.3
5	CE	14	ARG	2.3
10	CJ	39	PRO	2.3
16	CP	18	ARG	2.3
9	AI	115	GLY	2.3
21	CU	16	GLY	2.3
34	D9	6	SER	2.3
37	DC	158	ALA	2.3
51	DT	27	THR	2.3
46	DO	1	MET	2.3
48	DQ	103	MET	2.3
42	DH	157	TYR	2.3
9	CI	56	LEU	2.3
20	CT	36	LEU	2.3
31	B6	36	LEU	2.3
39	BE	63	LEU	2.3
41	BG	43	LEU	2.3
1	AA	1289	A	2.3
1	CA	441	A	2.3
14	CN	37	PHE	2.3
22	AW	72	A	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	2801(A)	A	2.3
58	CX	14	A	2.3
2	AB	195	ASP	2.3
12	CL	89	ASP	2.3
36	BB	1	U	2.3
1	CA	136	C	2.3
1	CA	417	C	2.3
1	CA	525	C	2.3
1	CA	1115	C	2.3
4	CD	92	VAL	2.3
10	CJ	24	VAL	2.3
35	DA	271(Z)	C	2.3
8	AH	75	ARG	2.3
10	CJ	5	ARG	2.3
43	BI	61	ARG	2.3
46	DO	78	ARG	2.3
2	AB	200	ILE	2.3
5	CE	76	ILE	2.3
18	AR	65	ILE	2.3
37	BC	99	ILE	2.3
4	CD	91	SER	2.3
11	CK	57	THR	2.3
57	DZ	28	MET	2.3
27	D2	44	LEU	2.3
1	AA	1311	G	2.3
1	CA	500	G	2.3
1	CA	1094	G	2.3
1	CA	1106	G	2.3
1	CA	1523	G	2.3
4	CD	38	TYR	2.3
35	BA	2124	G	2.3
35	DA	2290	G	2.3
37	DC	110	PHE	2.3
37	DC	139	ASN	2.3
15	CO	48	LYS	2.3
1	AA	1238	A	2.3
11	AK	54	ARG	2.3
19	CS	67	VAL	2.3
22	CV	11	A	2.3
34	B9	4	ARG	2.3
35	BA	896	A	2.3
35	BA	1046	A	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	1960	A	2.3
1	CA	264	U	2.3
4	CD	7	PRO	2.3
4	CD	29	PRO	2.3
20	CT	63	ILE	2.3
48	DQ	42	ILE	2.3
3	CC	189	ALA	2.3
1	CA	979	C	2.3
1	CA	1322	C	2.3
35	DA	2177	C	2.3
5	CE	31	LEU	2.3
12	CL	41	THR	2.3
33	B8	48	PHE	2.3
57	DZ	99	TYR	2.3
26	B1	48	LYS	2.3
13	CM	102	ARG	2.3
39	DE	13	ARG	2.3
3	AC	56	ASP	2.3
42	BH	52	VAL	2.3
43	BI	81	VAL	2.3
50	DS	14	VAL	2.3
54	DW	66	GLU	2.2
1	CA	548	G	2.2
1	CA	576	G	2.2
1	CA	838	G	2.2
1	CA	917	G	2.2
1	CA	1186	G	2.2
1	CA	1343	G	2.2
35	BA	2125	G	2.2
35	DA	2149	G	2.2
35	DA	2686	G	2.2
18	CR	52	PRO	2.2
43	BI	106	GLY	2.2
47	BP	63	PRO	2.2
5	CE	136	MET	2.2
9	AI	119	ALA	2.2
12	CL	23	ALA	2.2
1	CA	20	U	2.2
1	CA	439	A	2.2
1	CA	915	A	2.2
1	CA	1269	A	2.2
10	AJ	40	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
23	AX	14	A	2.2
35	BA	1495	A	2.2
35	DA	2173	A	2.2
15	CO	50	HIS	2.2
37	DC	40	THR	2.2
2	CB	235	SER	2.2
43	BI	118	LYS	2.2
1	CA	1097	C	2.2
29	B4	48	ARG	2.2
36	DB	6	C	2.2
36	DB	49	C	2.2
50	DS	106	ARG	2.2
39	BE	60	ASN	2.2
47	DP	95	VAL	2.2
4	CD	24	GLU	2.2
2	AB	201	ILE	2.2
2	CB	162	ILE	2.2
13	CM	4	ILE	2.2
12	CL	69	GLY	2.2
41	DG	42	GLY	2.2
56	BY	77	PRO	2.2
16	CP	6	LEU	2.2
1	AA	1030(A)	G	2.2
1	AA	1131	G	2.2
1	CA	617	G	2.2
1	CA	627	G	2.2
9	AI	117	HIS	2.2
35	DA	2133	G	2.2
35	DA	2338	G	2.2
36	DB	118	G	2.2
1	CA	404	U	2.2
2	CB	148	TYR	2.2
7	CG	154	TYR	2.2
8	AH	94	TYR	2.2
13	CM	99	ARG	2.2
1	AA	88	A	2.2
1	CA	632	A	2.2
1	CA	965	A	2.2
35	BA	1142(A)	A	2.2
35	DA	1106	A	2.2
35	DA	1445	A	2.2
42	BH	110	SER	2.2

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Mol	Chain	Res	Type	RSRZ
4	CD	178	VAL	2.2
33	D8	35	GLN	2.2
2	CB	211	ILE	2.2
19	CS	17	GLU	2.2
51	BT	11	GLU	2.2
1	AA	1116	C	2.2
1	AA	1397	C	2.2
1	CA	43	C	2.2
1	CA	822	C	2.2
7	CG	33	ASP	2.2
52	DU	97	ASP	2.2
8	CH	5	PRO	2.2
12	CL	26	GLY	2.2
37	BC	76	ALA	2.2
50	DS	91	PRO	2.2
4	CD	25	ARG	2.2
37	BC	107	TRP	2.2
41	DG	115	ARG	2.2
5	CE	120	THR	2.2
13	CM	20	THR	2.2
56	BY	83	THR	2.2
42	DH	164	TYR	2.2
2	AB	93	VAL	2.2
1	CA	4	U	2.2
1	CA	14	U	2.2
1	CA	118	U	2.2
1	CA	125	U	2.2
4	CD	201	GLN	2.2
37	DC	83	ILE	2.2
1	CA	70	G	2.2
1	CA	505	G	2.2
1	CA	927	G	2.2
1	CA	942	G	2.2
16	CP	14	ASN	2.2
24	AY	91	ASN	2.2
1	CA	1346	A	2.2
27	B2	31	GLU	2.2
35	BA	2120	G	2.2
4	CD	108	LEU	2.2
13	CM	90	LEU	2.2
14	CN	6	LEU	2.2
37	DC	120	MET	2.2

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Mol	Chain	Res	Type	RSRZ
58	CX	12	A	2.2
9	CI	39	GLY	2.2
13	CM	10	PRO	2.2
50	BS	104	GLY	2.2
50	DS	109	GLY	2.2
57	BZ	134	PRO	2.2
45	BN	137	LYS	2.2
45	DN	2	LYS	2.2
14	AN	31	ARG	2.2
1	CA	334	C	2.2
1	CA	385	C	2.2
1	CA	882	C	2.2
14	CN	61	TRP	2.2
35	BA	2103	C	2.2
35	BA	2146	C	2.2
35	DA	2350	C	2.2
36	BB	10	C	2.2
16	CP	16	HIS	2.2
3	AC	193	TYR	2.2
9	CI	41	VAL	2.2
13	CM	98	VAL	2.2
42	BH	17	VAL	2.2
53	DV	37	VAL	2.2
20	CT	55	ILE	2.2
39	BE	77	ILE	2.2
4	CD	58	LEU	2.2
50	DS	32	LEU	2.2
9	CI	82	ALA	2.2
24	AY	47	LYS	2.2
37	DC	35	ALA	2.2
46	DO	103	ALA	2.2
39	BE	130	GLY	2.2
39	DE	64	LYS	2.2
42	BH	85	LYS	2.2
52	BU	94	ASN	2.2
1	CA	560	U	2.2
1	CA	1436	U	2.2
46	DO	119	PRO	2.2
50	BS	91	PRO	2.2
51	BT	24	PRO	2.2
56	DY	66	PRO	2.2
2	CB	17	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
8	AH	8	ASP	2.2
47	BP	51	PHE	2.2
57	DZ	104	PHE	2.2
1	CA	509	A	2.2
1	CA	532	A	2.2
1	CA	1251	A	2.2
35	DA	910	A	2.2
1	AA	973	G	2.2
1	CA	9	G	2.2
1	CA	1023	G	2.2
1	CA	1050	G	2.2
1	CA	1184	G	2.2
1	CA	1253	G	2.2
1	CA	1505	G	2.2
35	DA	100	G	2.2
35	DA	2894	G	2.2
36	BB	7	G	2.2
36	DB	87	G	2.2
42	BH	158	HIS	2.2
2	AB	71	VAL	2.1
13	AM	15	VAL	2.1
56	DY	51	VAL	2.1
4	AD	20	TYR	2.1
4	CD	207	TYR	2.1
1	AA	980	C	2.1
1	CA	418	C	2.1
1	CA	962	C	2.1
1	CA	985	C	2.1
1	CA	1407	C	2.1
3	CC	202	ILE	2.1
5	CE	13	ILE	2.1
35	BA	2138	C	2.1
2	CB	102	LEU	2.1
4	CD	119	GLN	2.1
2	CB	179	LYS	2.1
50	BS	33	LYS	2.1
9	AI	61	ALA	2.1
16	CP	64	ALA	2.1
7	CG	82	GLY	2.1
14	CN	29	ARG	2.1
20	AT	98	PRO	2.1
37	DC	96	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
38	BD	273	ARG	2.1
40	DF	134	GLY	2.1
49	DR	64	ARG	2.1
51	DT	51	ARG	2.1
20	CT	75	ASN	2.1
1	CA	1125	U	2.1
9	CI	105	ASP	2.1
34	B9	23	VAL	2.1
1	CA	325	A	2.1
1	CA	1306	A	2.1
4	CD	4	TYR	2.1
9	CI	77	ILE	2.1
7	CG	138	LYS	2.1
9	CI	11	LYS	2.1
41	BG	90	LEU	2.1
1	CA	68	G	2.1
1	CA	633	G	2.1
1	CA	1198	G	2.1
9	AI	9	ARG	2.1
22	CW	12	G	2.1
35	BA	2802	G	2.1
35	DA	1533	G	2.1
36	DB	101	G	2.1
4	CD	208	SER	2.1
1	CA	224	C	2.1
1	CA	398	C	2.1
1	CA	556	C	2.1
5	CE	106	PRO	2.1
19	CS	72	GLY	2.1
43	BI	64	GLU	2.1
35	BA	2105	C	2.1
36	DB	31	C	2.1
19	AS	34	TRP	2.1
42	DH	11	VAL	2.1
46	DO	56	ASP	2.1
8	CH	81	HIS	2.1
1	CA	387	U	2.1
1	CA	1341	U	2.1
10	AJ	6	ILE	2.1
15	AO	22	THR	2.1
20	CT	100	ILE	2.1
26	B1	80	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
26	D1	80	LEU	2.1
37	BC	83	ILE	2.1
5	AE	24	ARG	2.1
7	CG	10	ARG	2.1
9	AI	128	ARG	2.1
42	BH	60	ARG	2.1
57	DZ	72	ARG	2.1
14	CN	30	ALA	2.1
1	CA	1375	A	2.1
4	AD	80	GLU	2.1
26	B1	93	GLU	2.1
39	DE	3	GLY	2.1
47	BP	10	PRO	2.1
56	DY	58	GLY	2.1
47	DP	91	PHE	2.1
1	AA	1283	G	2.1
1	CA	200	G	2.1
1	CA	542	G	2.1
1	CA	1053	G	2.1
1	CA	1171	G	2.1
13	AM	98	VAL	2.1
22	CW	6	G	2.1
36	DB	103	G	2.1
1	AA	1210	C	2.1
1	CA	121	C	2.1
1	CA	504	C	2.1
1	CA	586	C	2.1
35	BA	2136	C	2.1
35	DA	2145	C	2.1
35	DA	2386	C	2.1
9	AI	116	LYS	2.1
20	CT	29	LYS	2.1
24	AY	94	LYS	2.1
31	B6	38	LYS	2.1
48	DQ	57	HIS	2.1
50	DS	99	LYS	2.1
56	DY	88	LYS	2.1
3	AC	157	ILE	2.1
3	CC	115	LEU	2.1
4	CD	12	CYS	2.1
10	AJ	71	LEU	2.1
11	AK	119	CYS	2.1

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Mol	Chain	Res	Type	RSRZ
31	B6	43	CYS	2.1
4	AD	35	ARG	2.1
6	CF	46	ARG	2.1
20	AT	25	ARG	2.1
25	D0	25	ARG	2.1
34	D9	18	ARG	2.1
47	DP	18	ARG	2.1
47	DP	41	ARG	2.1
24	AY	9	TYR	2.1
31	B6	39	TYR	2.1
39	DE	151	TYR	2.1
2	CB	85	ALA	2.1
40	BF	128	ALA	2.1
54	BW	5	ALA	2.1
1	CA	636	U	2.1
1	CA	641	U	2.1
1	CA	1083	U	2.1
35	DA	12	U	2.1
37	BC	56	GLN	2.1
37	DC	135	GLY	2.1
39	BE	110	GLY	2.1
47	DP	28	GLY	2.1
11	AK	53	SER	2.1
40	DF	163	VAL	2.1
1	CA	10	A	2.1
37	BC	102	LYS	2.1
58	CX	13	A	2.1
7	CG	5	ARG	2.1
9	CI	9	ARG	2.1
16	CP	4	ILE	2.1
16	CP	42	ARG	2.1
17	CQ	65	ILE	2.1
19	CS	34	TRP	2.1
39	DE	181	LEU	2.1
43	DI	4	ILE	2.1
53	BV	38	LEU	2.1
5	CE	19	MET	2.1
8	CH	52	ASP	2.1
50	DS	42	ASP	2.1
9	AI	92	TYR	2.1
10	AJ	48	THR	2.1
11	CK	75	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
12	CL	34	CYS	2.1
16	CP	32	TYR	2.1
46	DO	21	CYS	2.1
1	CA	132	C	2.1
1	CA	336	C	2.1
1	CA	1354	C	2.1
1	AA	1026	G	2.1
1	AA	1221	G	2.1
1	CA	181	G	2.1
1	CA	332	G	2.1
1	CA	610	G	2.1
5	CE	17	ALA	2.1
11	CK	19	ALA	2.1
13	CM	30	ALA	2.1
35	BA	2145	C	2.1
48	DQ	140	ALA	2.1
31	B6	31	PRO	2.1
1	CA	294	U	2.0
1	CA	571	U	2.0
1	CA	956	U	2.0
7	CG	66	VAL	2.0
12	CL	93	VAL	2.0
20	CT	27	LYS	2.0
22	CW	50	U	2.0
35	DA	2167	U	2.0
37	DC	36	LYS	2.0
4	CD	115	ARG	2.0
10	CJ	43	ARG	2.0
43	BI	79	ILE	2.0
47	DP	15	ARG	2.0
12	CL	96	HIS	2.0
46	BO	1	MET	2.0
1	CA	787	A	2.0
1	CA	792	A	2.0
1	CA	935	A	2.0
1	CA	1500	A	2.0
35	BA	2126	A	2.0
39	DE	44	TYR	2.0
43	DI	55	ALA	2.0
48	DQ	107	ALA	2.0
4	CD	37	PRO	2.0
4	CD	206	PHE	2.0

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Mol	Chain	Res	Type	RSRZ
9	CI	59	PHE	2.0
47	DP	24	GLY	2.0
51	DT	76	PHE	2.0
1	AA	1115	C	2.0
1	CA	106	C	2.0
1	CA	290	C	2.0
1	CA	503	C	2.0
1	CA	1140	C	2.0
1	CA	1314	C	2.0
1	CA	1325	C	2.0
8	AH	116	LYS	2.0
9	CI	25	LYS	2.0
4	AD	203	VAL	2.0
8	CH	19	VAL	2.0
1	AA	587	G	2.0
1	AA	1084	G	2.0
1	CA	15	G	2.0
1	CA	104	G	2.0
1	CA	426	G	2.0
1	CA	721	G	2.0
1	CA	1521	G	2.0
4	CD	159	ARG	2.0
27	B2	55	ARG	2.0
34	B9	18	ARG	2.0
35	BA	508	G	2.0
35	DA	1922	G	2.0
35	DA	2337	G	2.0
49	BR	4	LEU	2.0
57	DZ	31	ARG	2.0
1	CA	1446	U	2.0
2	CB	104	ASN	2.0
3	AC	176	HIS	2.0
20	AT	12	ALA	2.0
30	B5	53	ALA	2.0
52	BU	96	ALA	2.0
17	CQ	32	TYR	2.0
49	DR	21	TYR	2.0
51	DT	68	TYR	2.0
53	DV	45	THR	2.0
5	AE	45	PHE	2.0
50	BS	90	GLY	2.0
19	CS	42	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
39	BE	35	GLN	2.0
42	DH	85	LYS	2.0
1	CA	59	A	2.0
1	CA	983	A	2.0
1	CA	1102	A	2.0
1	CA	1183	A	2.0
2	AB	112	VAL	2.0
7	AG	74	GLU	2.0
22	AW	21	A	2.0
35	BA	2117	A	2.0
35	DA	2170	A	2.0
47	DP	125	VAL	2.0
58	CX	15	A	2.0
47	BP	21	ARG	2.0
42	BH	171	LEU	2.0
47	DP	59	LEU	2.0
51	DT	82	LEU	2.0
3	AC	14	ILE	2.0
4	CD	204	ILE	2.0
8	CH	109	ILE	2.0
10	CJ	50	ILE	2.0
1	CA	880	C	2.0
35	BA	2183	C	2.0
35	DA	2551	C	2.0
36	DB	5	C	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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
1	A3P	CA	1493	26/27	0.56	0.14	191,200,203,203	0
1	A3P	AA	1493	26/27	0.83	0.12	151,182,188,189	0

6.3 Carbohydrates ⓘ

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(Å ²)	Q<0.9
59	MG	D3	101	1/1	-0.53	1.20	1,1,1,1	1
59	MG	DA	2944	1/1	-0.09	3.50	109,109,109,109	1
59	MG	DA	2950	1/1	-0.07	2.21	80,80,80,80	1
59	MG	DY	201	1/1	-0.06	0.23	168,168,168,168	0
59	MG	DA	2930	1/1	-0.04	0.84	1,1,1,1	1
59	MG	BA	3357	1/1	-0.01	0.33	78,78,78,78	1
59	MG	CA	1610	1/1	0.08	0.30	143,143,143,143	0
59	MG	AN	102	1/1	0.13	0.17	141,141,141,141	0
59	MG	DA	3345	1/1	0.14	1.28	25,25,25,25	1
59	MG	DA	3238	1/1	0.14	0.27	134,134,134,134	0
59	MG	AA	1712	1/1	0.15	0.30	188,188,188,188	0
59	MG	DA	3271	1/1	0.16	0.35	96,96,96,96	0
59	MG	BT	201	1/1	0.21	0.29	117,117,117,117	0
59	MG	AA	1802	1/1	0.21	0.40	119,119,119,119	0
59	MG	DA	2931	1/1	0.23	1.52	151,151,151,151	1
59	MG	D6	102	1/1	0.26	0.26	97,97,97,97	0
59	MG	DA	2976	1/1	0.26	0.53	1,1,1,1	1
59	MG	BA	3316	1/1	0.26	0.84	98,98,98,98	0
59	MG	CA	1759	1/1	0.30	0.41	98,98,98,98	0
59	MG	CA	1777	1/1	0.31	0.20	125,125,125,125	0
59	MG	DA	3133	1/1	0.32	0.33	120,120,120,120	0
59	MG	BA	3120	1/1	0.33	0.34	101,101,101,101	0
59	MG	BA	2967	1/1	0.34	0.46	95,95,95,95	0
59	MG	AA	1605	1/1	0.35	0.31	152,152,152,152	0
59	MG	AA	1780	1/1	0.35	0.35	154,154,154,154	0
59	MG	DA	3131	1/1	0.35	0.43	154,154,154,154	0
59	MG	DA	3721	1/1	0.35	0.13	171,171,171,171	0
59	MG	BA	3585	1/1	0.35	0.54	143,143,143,143	0
59	MG	CC	301	1/1	0.36	0.14	117,117,117,117	0
59	MG	DA	3784	1/1	0.38	0.62	123,123,123,123	0
59	MG	AA	1972	1/1	0.40	0.58	98,98,98,98	1
59	MG	DA	2920	1/1	0.40	1.31	15,15,15,15	1
59	MG	DA	3689	1/1	0.40	0.14	123,123,123,123	0
59	MG	AA	1648	1/1	0.41	0.32	108,108,108,108	0
59	MG	DA	3686	1/1	0.41	0.35	107,107,107,107	0
59	MG	CV	106	1/1	0.41	0.20	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3649	1/1	0.42	0.30	66,66,66,66	0
59	MG	AA	1604	1/1	0.42	0.25	118,118,118,118	0
59	MG	BA	3580	1/1	0.43	0.28	135,135,135,135	0
59	MG	BA	3112	1/1	0.43	0.31	101,101,101,101	0
59	MG	DA	3788	1/1	0.43	0.23	124,124,124,124	0
59	MG	BA	3205	1/1	0.43	0.38	78,78,78,78	0
59	MG	BA	3602	1/1	0.44	0.51	122,122,122,122	1
59	MG	BA	2951	1/1	0.44	0.22	142,142,142,142	0
59	MG	BA	3268	1/1	0.44	0.28	88,88,88,88	1
59	MG	DA	3125	1/1	0.44	0.35	118,118,118,118	0
59	MG	DA	3017	1/1	0.45	0.25	70,70,70,70	0
59	MG	DA	3418	1/1	0.45	0.31	88,88,88,88	0
59	MG	DA	3781	1/1	0.45	0.27	143,143,143,143	0
59	MG	CA	1658	1/1	0.46	0.18	97,97,97,97	0
59	MG	BA	3342	1/1	0.46	0.45	127,127,127,127	0
59	MG	DA	3374	1/1	0.46	0.42	91,91,91,91	0
59	MG	AA	1820	1/1	0.47	0.29	97,97,97,97	0
59	MG	DA	3779	1/1	0.47	0.33	122,122,122,122	0
59	MG	AA	1711	1/1	0.47	0.29	90,90,90,90	0
59	MG	DA	3769	1/1	0.48	0.30	142,142,142,142	0
59	MG	CA	1780	1/1	0.48	0.29	47,47,47,47	1
59	MG	DA	3419	1/1	0.48	0.72	122,122,122,122	0
59	MG	CA	1697	1/1	0.49	0.33	83,83,83,83	0
59	MG	DA	3571	1/1	0.49	0.34	96,96,96,96	0
59	MG	AQ	203	1/1	0.49	0.30	130,130,130,130	0
59	MG	D0	104	1/1	0.49	0.28	98,98,98,98	0
59	MG	BA	3245	1/1	0.49	0.28	116,116,116,116	0
59	MG	AV	104	1/1	0.49	0.15	133,133,133,133	0
59	MG	DA	3563	1/1	0.50	0.17	68,68,68,68	1
59	MG	BA	3005	1/1	0.50	0.75	105,105,105,105	0
59	MG	BA	3576	1/1	0.50	0.26	97,97,97,97	0
59	MG	DA	3349	1/1	0.50	1.07	141,141,141,141	0
59	MG	CA	1692	1/1	0.51	0.26	140,140,140,140	0
59	MG	DA	3634	1/1	0.51	0.22	83,83,83,83	0
59	MG	BA	3193	1/1	0.51	0.41	109,109,109,109	0
59	MG	BA	3379	1/1	0.51	0.49	114,114,114,114	0
59	MG	DA	3485	1/1	0.51	0.40	8,8,8,8	1
59	MG	BA	3059	1/1	0.51	0.33	98,98,98,98	0
59	MG	DA	3144	1/1	0.52	0.28	131,131,131,131	0
59	MG	DA	3515	1/1	0.52	0.53	108,108,108,108	0
59	MG	CA	1720	1/1	0.52	0.31	106,106,106,106	0
59	MG	AA	1627	1/1	0.52	0.23	142,142,142,142	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3124	1/1	0.52	0.35	81,81,81,81	0
59	MG	AA	1642	1/1	0.53	0.38	108,108,108,108	0
59	MG	BA	3598	1/1	0.53	0.42	110,110,110,110	0
59	MG	BA	3095	1/1	0.53	0.40	95,95,95,95	0
59	MG	DA	3459	1/1	0.53	0.59	92,92,92,92	0
59	MG	DA	3479	1/1	0.53	0.35	127,127,127,127	0
59	MG	CA	1716	1/1	0.54	0.16	110,110,110,110	0
59	MG	AA	1666	1/1	0.54	0.45	127,127,127,127	0
59	MG	BA	3190	1/1	0.54	0.45	117,117,117,117	0
59	MG	DA	3203	1/1	0.54	0.28	112,112,112,112	0
59	MG	BA	3395	1/1	0.54	0.30	84,84,84,84	0
59	MG	DA	2906	1/1	0.54	0.48	93,93,93,93	1
59	MG	DA	3540	1/1	0.54	0.09	152,152,152,152	0
59	MG	DA	3113	1/1	0.54	0.41	109,109,109,109	0
59	MG	BA	3501	1/1	0.54	0.36	112,112,112,112	0
59	MG	BA	3570	1/1	0.54	0.34	115,115,115,115	0
59	MG	CA	1750	1/1	0.55	0.25	102,102,102,102	0
59	MG	AA	1801	1/1	0.55	0.37	130,130,130,130	0
59	MG	DA	3035	1/1	0.55	0.26	84,84,84,84	0
59	MG	DA	3378	1/1	0.55	0.33	96,96,96,96	0
59	MG	AA	1792	1/1	0.55	0.22	102,102,102,102	0
59	MG	AA	1813	1/1	0.55	0.23	134,134,134,134	0
59	MG	CA	1747	1/1	0.55	0.27	79,79,79,79	0
59	MG	DA	3289	1/1	0.55	0.27	78,78,78,78	0
59	MG	BA	3043	1/1	0.56	0.49	80,80,80,80	0
59	MG	CA	1763	1/1	0.56	0.13	105,105,105,105	0
59	MG	BA	2963	1/1	0.56	0.46	113,113,113,113	0
59	MG	BA	3446	1/1	0.56	0.26	99,99,99,99	0
59	MG	AA	1900	1/1	0.56	0.11	128,128,128,128	0
59	MG	AA	1865	1/1	0.56	0.27	96,96,96,96	0
59	MG	DA	3145	1/1	0.56	0.54	120,120,120,120	0
59	MG	DA	3172	1/1	0.56	0.50	102,102,102,102	0
59	MG	BA	3234	1/1	0.56	0.41	90,90,90,90	0
59	MG	CA	1622	1/1	0.56	0.41	99,99,99,99	0
59	MG	CA	1756	1/1	0.56	0.19	87,87,87,87	0
59	MG	DA	3111	1/1	0.56	0.26	83,83,83,83	0
59	MG	DA	3390	1/1	0.57	0.51	60,60,60,60	1
59	MG	BA	3087	1/1	0.57	0.32	87,87,87,87	0
59	MG	AA	1868	1/1	0.57	0.26	100,100,100,100	0
59	MG	BA	2923	1/1	0.57	0.35	96,96,96,96	0
59	MG	CA	1685	1/1	0.57	0.26	92,92,92,92	0
59	MG	BA	3072	1/1	0.57	0.31	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3240	1/1	0.57	0.19	128,128,128,128	0
59	MG	DA	3065	1/1	0.58	0.38	128,128,128,128	0
59	MG	DA	3075	1/1	0.58	0.26	98,98,98,98	0
59	MG	CA	1657	1/1	0.58	0.22	85,85,85,85	0
59	MG	AA	1938	1/1	0.58	0.55	124,124,124,124	0
59	MG	DA	3717	1/1	0.58	0.62	155,155,155,155	0
59	MG	AA	1968	1/1	0.58	0.32	95,95,95,95	0
59	MG	BA	3529	1/1	0.58	0.29	70,70,70,70	0
59	MG	BA	3044	1/1	0.58	0.49	64,64,64,64	0
59	MG	AA	1698	1/1	0.58	0.46	103,103,103,103	0
59	MG	AY	103	1/1	0.58	0.30	108,108,108,108	0
59	MG	DA	3049	1/1	0.58	0.66	96,96,96,96	0
59	MG	DB	204	1/1	0.58	0.24	110,110,110,110	0
59	MG	DA	3573	1/1	0.58	0.26	86,86,86,86	0
59	MG	AA	1883	1/1	0.59	0.24	58,58,58,58	0
59	MG	BA	3199	1/1	0.59	0.74	110,110,110,110	0
59	MG	DA	2939	1/1	0.59	0.62	1,1,1,1	1
59	MG	AA	1740	1/1	0.59	0.20	94,94,94,94	0
59	MG	AA	1910	1/1	0.59	0.31	120,120,120,120	0
59	MG	DA	3615	1/1	0.59	0.27	86,86,86,86	0
59	MG	DA	3628	1/1	0.59	0.60	93,93,93,93	0
59	MG	DA	3322	1/1	0.59	0.45	89,89,89,89	0
59	MG	DA	2972	1/1	0.59	0.35	97,97,97,97	0
59	MG	DA	2925	1/1	0.59	0.47	108,108,108,108	0
59	MG	DA	3748	1/1	0.60	0.51	125,125,125,125	0
59	MG	BA	2987	1/1	0.60	0.33	104,104,104,104	0
59	MG	DA	3384	1/1	0.60	0.39	120,120,120,120	0
59	MG	AV	106	1/1	0.60	0.17	87,87,87,87	1
59	MG	AA	1953	1/1	0.60	0.18	120,120,120,120	0
59	MG	DA	2983	1/1	0.60	0.31	79,79,79,79	1
59	MG	AA	1771	1/1	0.60	0.29	95,95,95,95	0
59	MG	DA	3138	1/1	0.60	0.51	139,139,139,139	0
59	MG	DA	2961	1/1	0.61	0.41	126,126,126,126	0
59	MG	BA	3001	1/1	0.61	0.26	117,117,117,117	0
59	MG	BA	3346	1/1	0.61	0.25	71,71,71,71	0
59	MG	AA	1789	1/1	0.61	0.12	108,108,108,108	0
59	MG	CA	1689	1/1	0.61	0.15	96,96,96,96	1
59	MG	DA	3591	1/1	0.61	0.71	19,19,19,19	1
59	MG	DA	3266	1/1	0.61	0.36	57,57,57,57	0
59	MG	AA	1790	1/1	0.61	0.40	96,96,96,96	0
59	MG	BA	3383	1/1	0.61	0.34	126,126,126,126	0
59	MG	BA	3335	1/1	0.61	0.41	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3066	1/1	0.61	0.23	113,113,113,113	0
59	MG	CA	1626	1/1	0.62	0.48	112,112,112,112	0
59	MG	BA	3480	1/1	0.62	0.29	55,55,55,55	0
59	MG	DA	2936	1/1	0.62	0.26	81,81,81,81	0
59	MG	BA	3303	1/1	0.62	0.17	88,88,88,88	0
59	MG	AA	1924	1/1	0.62	0.44	84,84,84,84	0
59	MG	BH	201	1/1	0.62	0.19	71,71,71,71	1
59	MG	BA	3146	1/1	0.62	0.39	113,113,113,113	0
59	MG	AA	1905	1/1	0.62	0.49	71,71,71,71	1
59	MG	DA	3640	1/1	0.62	0.53	81,81,81,81	1
59	MG	DA	3497	1/1	0.62	0.32	103,103,103,103	0
59	MG	BA	3287	1/1	0.62	0.26	104,104,104,104	0
59	MG	DA	3404	1/1	0.63	0.26	87,87,87,87	0
59	MG	BA	3350	1/1	0.63	0.60	118,118,118,118	0
59	MG	DA	2954	1/1	0.63	0.52	47,47,47,47	1
59	MG	DA	3673	1/1	0.63	0.34	116,116,116,116	0
59	MG	AA	1915	1/1	0.63	0.25	75,75,75,75	0
59	MG	CA	1721	1/1	0.63	0.87	111,111,111,111	0
59	MG	CA	1725	1/1	0.63	0.27	76,76,76,76	1
59	MG	CA	1737	1/1	0.63	0.16	120,120,120,120	0
59	MG	CA	1741	1/1	0.63	0.49	106,106,106,106	0
59	MG	CA	1608	1/1	0.63	0.31	124,124,124,124	0
59	MG	DA	3143	1/1	0.63	0.41	113,113,113,113	0
59	MG	AA	1936	1/1	0.63	0.15	135,135,135,135	0
59	MG	DA	3376	1/1	0.63	0.54	93,93,93,93	0
59	MG	DA	2940	1/1	0.63	0.28	106,106,106,106	0
59	MG	DA	3150	1/1	0.63	0.15	98,98,98,98	0
59	MG	CA	1752	1/1	0.63	0.23	113,113,113,113	0
59	MG	CA	1700	1/1	0.64	0.34	104,104,104,104	0
59	MG	AA	1735	1/1	0.64	0.23	85,85,85,85	0
59	MG	CA	1719	1/1	0.64	0.24	95,95,95,95	0
59	MG	CA	1637	1/1	0.64	0.21	114,114,114,114	0
59	MG	DA	2928	1/1	0.64	0.17	61,61,61,61	1
59	MG	DA	3491	1/1	0.64	0.33	107,107,107,107	0
59	MG	DA	3337	1/1	0.64	0.31	90,90,90,90	0
59	MG	DA	3000	1/1	0.64	0.14	105,105,105,105	0
59	MG	DA	3517	1/1	0.64	0.20	107,107,107,107	0
59	MG	BA	3321	1/1	0.64	0.24	58,58,58,58	0
59	MG	BA	2993	1/1	0.64	0.47	86,86,86,86	0
59	MG	BA	2907	1/1	0.64	0.19	108,108,108,108	0
59	MG	CV	101	1/1	0.64	0.56	93,93,93,93	1
59	MG	AA	1722	1/1	0.64	0.23	116,116,116,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3583	1/1	0.64	0.59	81,81,81,81	1
59	MG	BA	3132	1/1	0.64	0.27	81,81,81,81	0
59	MG	DA	2990	1/1	0.65	0.38	43,43,43,43	1
59	MG	BA	3213	1/1	0.65	0.53	135,135,135,135	0
59	MG	DA	3358	1/1	0.65	0.32	93,93,93,93	0
59	MG	DA	3770	1/1	0.65	0.17	85,85,85,85	1
59	MG	CA	1735	1/1	0.65	0.19	127,127,127,127	0
59	MG	CA	1695	1/1	0.65	0.43	110,110,110,110	0
59	MG	BA	3588	1/1	0.65	0.33	90,90,90,90	0
59	MG	AA	1705	1/1	0.65	0.28	105,105,105,105	0
59	MG	DA	3711	1/1	0.65	0.20	55,55,55,55	1
59	MG	CA	1770	1/1	0.65	0.21	54,54,54,54	1
59	MG	BA	3140	1/1	0.66	0.31	113,113,113,113	0
59	MG	CA	1646	1/1	0.66	0.34	102,102,102,102	0
59	MG	BA	3030	1/1	0.66	0.35	79,79,79,79	0
59	MG	AA	1758	1/1	0.66	0.32	98,98,98,98	0
59	MG	DA	3234	1/1	0.66	0.34	118,118,118,118	0
59	MG	CA	1671	1/1	0.66	0.29	99,99,99,99	0
59	MG	DA	3464	1/1	0.66	0.27	62,62,62,62	1
59	MG	CJ	201	1/1	0.66	0.22	115,115,115,115	0
59	MG	BA	3272	1/1	0.66	0.52	126,126,126,126	0
59	MG	BA	3097	1/1	0.66	0.26	89,89,89,89	0
59	MG	AA	1776	1/1	0.66	0.48	119,119,119,119	0
59	MG	AA	1828	1/1	0.66	0.13	86,86,86,86	0
59	MG	D6	101	1/1	0.66	0.28	95,95,95,95	0
59	MG	BA	3391	1/1	0.66	0.43	91,91,91,91	1
59	MG	DA	2901	1/1	0.66	0.28	51,51,51,51	0
59	MG	DA	3137	1/1	0.66	0.21	70,70,70,70	0
59	MG	AV	102	1/1	0.66	0.49	106,106,106,106	0
59	MG	CA	1629	1/1	0.66	0.22	98,98,98,98	0
59	MG	DB	207	1/1	0.66	0.22	53,53,53,53	1
59	MG	DA	2991	1/1	0.66	0.17	44,44,44,44	1
59	MG	AD	303	1/1	0.67	0.25	134,134,134,134	0
59	MG	BA	3172	1/1	0.67	0.34	80,80,80,80	0
59	MG	DA	3021	1/1	0.67	0.47	87,87,87,87	0
59	MG	BA	3222	1/1	0.67	0.22	108,108,108,108	0
59	MG	AA	1966	1/1	0.67	0.11	99,99,99,99	0
59	MG	AA	1939	1/1	0.67	0.28	74,74,74,74	1
59	MG	CA	1773	1/1	0.67	0.21	106,106,106,106	0
59	MG	DA	3793	1/1	0.67	0.39	130,130,130,130	0
59	MG	DA	3366	1/1	0.67	0.48	9,9,9,9	1
59	MG	AA	1873	1/1	0.67	0.31	117,117,117,117	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3079	1/1	0.67	0.41	127,127,127,127	0
59	MG	DA	3676	1/1	0.68	0.23	96,96,96,96	0
59	MG	BA	3218	1/1	0.68	0.18	111,111,111,111	0
59	MG	CA	1677	1/1	0.68	0.25	88,88,88,88	1
59	MG	DA	3706	1/1	0.68	0.33	66,66,66,66	0
59	MG	DA	3239	1/1	0.68	0.09	96,96,96,96	0
59	MG	BA	3113	1/1	0.68	0.12	95,95,95,95	0
59	MG	AA	1907	1/1	0.68	0.28	96,96,96,96	0
59	MG	DA	2908	1/1	0.68	0.29	97,97,97,97	0
59	MG	AA	1617	1/1	0.68	0.11	109,109,109,109	0
59	MG	DA	2923	1/1	0.68	0.12	94,94,94,94	0
59	MG	AA	1889	1/1	0.68	0.39	115,115,115,115	0
59	MG	CV	110	1/1	0.68	0.18	105,105,105,105	0
59	MG	DA	3476	1/1	0.68	0.34	120,120,120,120	0
59	MG	AH	201	1/1	0.68	0.32	102,102,102,102	0
59	MG	DA	2988	1/1	0.68	0.47	40,40,40,40	1
59	MG	DA	3661	1/1	0.68	0.27	100,100,100,100	0
59	MG	DA	3662	1/1	0.68	0.38	59,59,59,59	0
59	MG	BA	3150	1/1	0.68	0.41	145,145,145,145	0
59	MG	DA	3403	1/1	0.69	0.36	109,109,109,109	0
59	MG	BH	204	1/1	0.69	0.21	57,57,57,57	1
59	MG	BQ	201	1/1	0.69	0.15	72,72,72,72	0
59	MG	DA	3578	1/1	0.69	0.37	105,105,105,105	0
59	MG	BA	3394	1/1	0.69	0.22	85,85,85,85	0
59	MG	DA	3074	1/1	0.69	0.24	129,129,129,129	0
59	MG	AA	1935	1/1	0.69	0.26	96,96,96,96	0
59	MG	CA	1765	1/1	0.69	0.21	94,94,94,94	0
59	MG	AA	1857	1/1	0.69	0.11	57,57,57,57	0
59	MG	DA	3648	1/1	0.69	0.35	100,100,100,100	0
59	MG	BA	3358	1/1	0.69	0.18	100,100,100,100	0
59	MG	BA	3493	1/1	0.69	0.34	101,101,101,101	0
59	MG	BA	3276	1/1	0.69	0.11	125,125,125,125	0
59	MG	DA	3127	1/1	0.69	0.09	93,93,93,93	0
59	MG	AA	1964	1/1	0.69	0.47	106,106,106,106	0
59	MG	AA	1652	1/1	0.69	0.11	95,95,95,95	0
59	MG	BA	3003	1/1	0.70	0.29	75,75,75,75	0
59	MG	DA	3457	1/1	0.70	0.28	68,68,68,68	0
59	MG	CA	1668	1/1	0.70	0.17	94,94,94,94	0
59	MG	DA	3116	1/1	0.70	0.24	78,78,78,78	0
59	MG	DA	3123	1/1	0.70	0.46	91,91,91,91	0
59	MG	AO	102	1/1	0.70	0.21	77,77,77,77	0
59	MG	BA	3215	1/1	0.70	0.62	4,4,4,4	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3364	1/1	0.70	0.98	66,66,66,66	1
59	MG	DA	3329	1/1	0.70	0.68	110,110,110,110	0
59	MG	BA	3216	1/1	0.70	0.18	73,73,73,73	0
59	MG	AX	101	1/1	0.70	0.21	113,113,113,113	0
59	MG	AA	1861	1/1	0.70	0.28	77,77,77,77	0
59	MG	B1	101	1/1	0.70	0.18	50,50,50,50	1
59	MG	CA	1698	1/1	0.70	0.30	73,73,73,73	1
59	MG	DA	2945	1/1	0.70	0.28	102,102,102,102	0
59	MG	AA	1747	1/1	0.70	0.17	119,119,119,119	0
59	MG	DA	3146	1/1	0.70	0.30	85,85,85,85	0
59	MG	BA	3409	1/1	0.70	0.14	104,104,104,104	0
59	MG	AA	1726	1/1	0.70	0.29	70,70,70,70	1
59	MG	BA	3471	1/1	0.70	0.37	96,96,96,96	0
59	MG	DA	3220	1/1	0.70	0.19	117,117,117,117	0
59	MG	DA	3081	1/1	0.70	0.29	75,75,75,75	0
59	MG	DA	3191	1/1	0.71	0.31	83,83,83,83	0
59	MG	BA	3284	1/1	0.71	0.44	97,97,97,97	0
59	MG	DA	3680	1/1	0.71	0.33	98,98,98,98	0
59	MG	AA	1959	1/1	0.71	0.66	146,146,146,146	0
59	MG	AA	1891	1/1	0.71	0.20	54,54,54,54	1
59	MG	AA	1795	1/1	0.71	0.15	96,96,96,96	0
59	MG	DA	2921	1/1	0.71	0.65	114,114,114,114	0
59	MG	DA	3391	1/1	0.71	0.22	73,73,73,73	0
59	MG	CA	1641	1/1	0.71	0.25	84,84,84,84	0
59	MG	BA	3238	1/1	0.71	0.36	110,110,110,110	0
59	MG	AA	1662	1/1	0.71	0.23	68,68,68,68	0
59	MG	CA	1712	1/1	0.71	0.24	88,88,88,88	1
59	MG	DA	3443	1/1	0.71	0.49	133,133,133,133	0
59	MG	AA	1832	1/1	0.71	0.23	140,140,140,140	0
59	MG	AA	1757	1/1	0.71	0.45	111,111,111,111	0
59	MG	AA	1646	1/1	0.71	0.31	106,106,106,106	0
59	MG	DA	3168	1/1	0.71	0.33	100,100,100,100	0
59	MG	BA	3423	1/1	0.71	0.23	67,67,67,67	1
59	MG	DA	3189	1/1	0.71	0.35	80,80,80,80	0
59	MG	DB	211	1/1	0.71	0.21	80,80,80,80	0
59	MG	DA	3671	1/1	0.71	0.27	103,103,103,103	0
59	MG	DA	3134	1/1	0.72	0.10	74,74,74,74	0
59	MG	AA	1659	1/1	0.72	0.09	107,107,107,107	0
59	MG	DA	3462	1/1	0.72	0.36	78,78,78,78	0
59	MG	DA	3321	1/1	0.72	0.27	88,88,88,88	0
59	MG	AA	1614	1/1	0.72	0.33	113,113,113,113	0
59	MG	DA	2946	1/1	0.72	0.40	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3068	1/1	0.72	0.14	51,51,51,51	0
59	MG	DA	2907	1/1	0.72	0.30	83,83,83,83	0
59	MG	BA	3286	1/1	0.72	0.20	57,57,57,57	0
59	MG	DA	2911	1/1	0.72	0.23	91,91,91,91	0
59	MG	BA	3592	1/1	0.72	0.18	100,100,100,100	0
59	MG	DA	3096	1/1	0.72	0.21	80,80,80,80	0
59	MG	DA	3727	1/1	0.72	0.14	70,70,70,70	1
59	MG	DA	3730	1/1	0.72	0.32	91,91,91,91	0
59	MG	BA	3015	1/1	0.72	0.16	105,105,105,105	0
59	MG	DA	3754	1/1	0.72	0.34	34,34,34,34	1
59	MG	CA	1746	1/1	0.72	0.19	85,85,85,85	0
59	MG	BA	3229	1/1	0.72	0.29	88,88,88,88	0
59	MG	AA	1632	1/1	0.72	0.33	97,97,97,97	0
59	MG	BA	3141	1/1	0.72	0.29	104,104,104,104	0
59	MG	BA	3210	1/1	0.72	0.46	106,106,106,106	0
59	MG	DA	3617	1/1	0.72	0.46	111,111,111,111	0
59	MG	AA	1948	1/1	0.72	0.30	114,114,114,114	0
59	MG	CA	1670	1/1	0.72	0.13	66,66,66,66	0
59	MG	AA	1949	1/1	0.72	0.28	42,42,42,42	1
59	MG	DA	3269	1/1	0.72	0.21	44,44,44,44	0
59	MG	DF	302	1/1	0.72	0.30	98,98,98,98	0
59	MG	DA	3447	1/1	0.72	0.24	70,70,70,70	0
59	MG	AO	101	1/1	0.73	0.22	111,111,111,111	0
59	MG	DA	2958	1/1	0.73	0.84	59,59,59,59	1
59	MG	DA	3433	1/1	0.73	0.40	1,1,1,1	1
59	MG	BA	3117	1/1	0.73	0.43	98,98,98,98	0
59	MG	DA	3665	1/1	0.73	0.41	96,96,96,96	0
59	MG	AA	1756	1/1	0.73	0.22	91,91,91,91	0
59	MG	DA	3449	1/1	0.73	0.26	71,71,71,71	0
59	MG	DA	3253	1/1	0.73	0.28	52,52,52,52	0
59	MG	AA	1794	1/1	0.73	0.36	106,106,106,106	0
59	MG	CA	1679	1/1	0.73	0.10	65,65,65,65	1
59	MG	CA	1680	1/1	0.73	0.34	102,102,102,102	0
59	MG	DA	3696	1/1	0.73	0.44	80,80,80,80	0
59	MG	AA	1821	1/1	0.73	0.34	65,65,65,65	0
59	MG	DA	3297	1/1	0.73	0.31	53,53,53,53	0
59	MG	AA	1970	1/1	0.73	0.18	107,107,107,107	0
59	MG	CA	1609	1/1	0.73	0.28	93,93,93,93	0
59	MG	DA	3723	1/1	0.73	0.22	101,101,101,101	0
59	MG	DA	3495	1/1	0.73	0.27	75,75,75,75	0
59	MG	BA	3539	1/1	0.73	0.13	97,97,97,97	1
59	MG	AA	1761	1/1	0.73	0.34	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3025	1/1	0.73	0.43	108,108,108,108	0
59	MG	BA	3380	1/1	0.73	0.36	133,133,133,133	0
59	MG	AA	1831	1/1	0.73	0.49	89,89,89,89	0
59	MG	CA	1705	1/1	0.73	0.15	62,62,62,62	0
59	MG	BA	3312	1/1	0.73	0.24	53,53,53,53	0
59	MG	DA	3165	1/1	0.73	0.08	121,121,121,121	0
59	MG	AA	1765	1/1	0.73	0.13	107,107,107,107	1
59	MG	CA	1642	1/1	0.73	0.15	85,85,85,85	0
59	MG	AA	1673	1/1	0.73	0.32	90,90,90,90	0
59	MG	CA	1650	1/1	0.73	0.22	79,79,79,79	0
59	MG	BA	2904	1/1	0.73	0.37	104,104,104,104	0
59	MG	DA	3637	1/1	0.73	0.33	88,88,88,88	0
59	MG	BA	3336	1/1	0.73	0.14	99,99,99,99	0
59	MG	AA	1943	1/1	0.74	0.25	60,60,60,60	1
59	MG	DA	3712	1/1	0.74	0.54	108,108,108,108	0
59	MG	CA	1644	1/1	0.74	0.20	92,92,92,92	0
59	MG	BA	3092	1/1	0.74	0.37	101,101,101,101	0
59	MG	AA	1836	1/1	0.74	0.22	114,114,114,114	0
59	MG	DA	3208	1/1	0.74	0.27	91,91,91,91	0
59	MG	AL	203	1/1	0.74	0.22	81,81,81,81	0
59	MG	BA	3098	1/1	0.74	0.22	62,62,62,62	0
59	MG	BA	3339	1/1	0.74	0.54	63,63,63,63	1
59	MG	AA	1932	1/1	0.74	0.23	82,82,82,82	0
59	MG	BA	3400	1/1	0.74	0.20	87,87,87,87	0
59	MG	AA	1762	1/1	0.74	0.20	74,74,74,74	0
59	MG	AA	1942	1/1	0.74	0.35	98,98,98,98	0
59	MG	DA	3498	1/1	0.74	0.24	82,82,82,82	0
59	MG	DA	3786	1/1	0.74	0.36	144,144,144,144	0
59	MG	DA	2917	1/1	0.74	0.30	89,89,89,89	0
59	MG	CA	1723	1/1	0.74	0.22	82,82,82,82	0
59	MG	BA	3440	1/1	0.74	0.34	72,72,72,72	0
59	MG	CA	1726	1/1	0.74	0.30	107,107,107,107	0
59	MG	BA	3301	1/1	0.74	0.23	67,67,67,67	0
59	MG	DA	3439	1/1	0.74	0.14	54,54,54,54	1
59	MG	DO	201	1/1	0.74	0.17	117,117,117,117	0
59	MG	BA	3083	1/1	0.74	0.32	80,80,80,80	0
59	MG	BA	2961	1/1	0.75	0.13	79,79,79,79	0
59	MG	AA	1624	1/1	0.75	0.21	98,98,98,98	0
59	MG	BA	3196	1/1	0.75	0.34	64,64,64,64	0
59	MG	DA	3344	1/1	0.75	0.37	75,75,75,75	0
59	MG	DA	3481	1/1	0.75	0.39	73,73,73,73	0
59	MG	AA	1715	1/1	0.75	0.18	126,126,126,126	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3548	1/1	0.75	0.15	92,92,92,92	0
59	MG	DA	3170	1/1	0.75	0.15	98,98,98,98	0
59	MG	D9	101	1/1	0.75	0.21	92,92,92,92	1
59	MG	DA	3369	1/1	0.75	0.27	95,95,95,95	0
59	MG	BA	3567	1/1	0.75	0.16	76,76,76,76	0
59	MG	BA	3331	1/1	0.75	0.50	92,92,92,92	0
59	MG	CA	1627	1/1	0.75	0.11	71,71,71,71	0
59	MG	BA	3265	1/1	0.75	0.14	66,66,66,66	0
59	MG	DA	3567	1/1	0.75	0.26	98,98,98,98	0
59	MG	DA	3117	1/1	0.75	0.17	88,88,88,88	0
59	MG	DA	3221	1/1	0.75	0.34	77,77,77,77	0
59	MG	DA	3577	1/1	0.75	0.46	92,92,92,92	0
59	MG	CA	1632	1/1	0.75	0.17	94,94,94,94	0
59	MG	BA	3016	1/1	0.75	0.23	66,66,66,66	0
59	MG	BA	2986	1/1	0.75	0.24	52,52,52,52	0
59	MG	AA	1717	1/1	0.75	0.32	120,120,120,120	0
59	MG	BA	3415	1/1	0.75	0.22	69,69,69,69	1
59	MG	DA	3436	1/1	0.75	0.29	104,104,104,104	0
59	MG	BA	2929	1/1	0.75	0.21	90,90,90,90	0
59	MG	BA	3102	1/1	0.75	0.32	64,64,64,64	0
59	MG	BA	3354	1/1	0.75	0.30	76,76,76,76	0
59	MG	BA	3165	1/1	0.75	0.38	77,77,77,77	0
59	MG	DA	3455	1/1	0.75	0.22	71,71,71,71	0
59	MG	CA	1663	1/1	0.75	0.20	97,97,97,97	0
59	MG	AA	1739	1/1	0.75	0.34	73,73,73,73	1
59	MG	DA	3597	1/1	0.76	0.17	66,66,66,66	0
59	MG	BA	2927	1/1	0.76	0.36	83,83,83,83	1
59	MG	CA	1662	1/1	0.76	0.13	79,79,79,79	0
59	MG	DA	3002	1/1	0.76	0.12	78,78,78,78	0
59	MG	DA	3630	1/1	0.76	0.28	99,99,99,99	0
59	MG	BA	3596	1/1	0.76	0.28	107,107,107,107	0
59	MG	DA	3148	1/1	0.76	0.49	120,120,120,120	0
59	MG	BA	3248	1/1	0.76	0.30	101,101,101,101	0
59	MG	DA	3158	1/1	0.76	0.28	130,130,130,130	0
59	MG	AA	1971	1/1	0.76	0.15	125,125,125,125	0
59	MG	AA	1827	1/1	0.76	0.18	85,85,85,85	0
59	MG	DA	3042	1/1	0.76	0.17	60,60,60,60	0
59	MG	BA	3460	1/1	0.76	0.35	40,40,40,40	0
59	MG	AA	1656	1/1	0.76	0.19	98,98,98,98	1
59	MG	AA	1730	1/1	0.76	0.16	77,77,77,77	1
59	MG	DA	3196	1/1	0.76	0.24	100,100,100,100	0
59	MG	DA	3067	1/1	0.76	0.24	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3116	1/1	0.76	0.21	81,81,81,81	0
59	MG	DA	3073	1/1	0.76	0.29	64,64,64,64	0
59	MG	BA	3498	1/1	0.76	0.80	85,85,85,85	1
59	MG	AA	1625	1/1	0.76	0.44	73,73,73,73	1
59	MG	CA	1619	1/1	0.76	0.11	116,116,116,116	0
59	MG	BA	3361	1/1	0.76	0.45	105,105,105,105	0
59	MG	DA	3714	1/1	0.76	0.28	109,109,109,109	0
59	MG	DA	3470	1/1	0.76	0.26	75,75,75,75	0
59	MG	DA	3094	1/1	0.76	0.19	87,87,87,87	0
59	MG	BA	3051	1/1	0.76	0.17	68,68,68,68	0
59	MG	DA	3105	1/1	0.76	0.29	92,92,92,92	0
59	MG	DA	3728	1/1	0.76	0.55	46,46,46,46	1
59	MG	BA	3540	1/1	0.76	0.81	66,66,66,66	1
59	MG	CC	302	1/1	0.76	0.12	114,114,114,114	0
59	MG	CH	201	1/1	0.76	0.09	37,37,37,37	1
59	MG	BA	2977	1/1	0.76	0.62	93,93,93,93	0
59	MG	BA	3554	1/1	0.76	0.14	109,109,109,109	0
59	MG	DA	3506	1/1	0.76	0.50	73,73,73,73	1
59	MG	AA	1720	1/1	0.76	0.32	37,37,37,37	1
59	MG	DA	3783	1/1	0.76	0.25	90,90,90,90	0
59	MG	AA	1887	1/1	0.76	0.24	72,72,72,72	0
59	MG	CV	112	1/1	0.76	0.15	69,69,69,69	0
59	MG	DA	3552	1/1	0.76	0.38	120,120,120,120	0
59	MG	AA	1640	1/1	0.76	0.56	127,127,127,127	0
59	MG	BA	3318	1/1	0.76	0.24	63,63,63,63	0
59	MG	DA	3346	1/1	0.76	0.22	59,59,59,59	0
59	MG	BA	2914	1/1	0.76	0.53	106,106,106,106	0
59	MG	DA	3135	1/1	0.76	0.20	51,51,51,51	0
59	MG	BA	3153	1/1	0.76	0.19	93,93,93,93	0
59	MG	AA	1945	1/1	0.76	0.32	94,94,94,94	1
59	MG	DA	2942	1/1	0.77	1.04	27,27,27,27	1
59	MG	AQ	202	1/1	0.77	0.15	97,97,97,97	0
59	MG	AA	1800	1/1	0.77	0.38	114,114,114,114	0
59	MG	AA	1769	1/1	0.77	0.18	101,101,101,101	0
59	MG	DA	3453	1/1	0.77	0.27	84,84,84,84	0
59	MG	AA	1937	1/1	0.77	0.17	58,58,58,58	0
59	MG	AA	1630	1/1	0.77	0.21	57,57,57,57	0
59	MG	CV	109	1/1	0.77	0.14	95,95,95,95	0
59	MG	DA	3668	1/1	0.77	0.13	93,93,93,93	0
59	MG	DA	2960	1/1	0.77	0.37	57,57,57,57	1
59	MG	AA	1743	1/1	0.77	0.26	87,87,87,87	0
59	MG	DA	3467	1/1	0.77	0.58	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3244	1/1	0.77	0.28	88,88,88,88	0
59	MG	BA	3594	1/1	0.77	0.24	83,83,83,83	0
59	MG	DA	2981	1/1	0.77	0.30	127,127,127,127	0
59	MG	DA	3691	1/1	0.77	0.16	59,59,59,59	0
59	MG	AA	1908	1/1	0.77	0.17	65,65,65,65	0
59	MG	BA	3154	1/1	0.77	0.22	54,54,54,54	0
59	MG	BA	2992	1/1	0.77	0.10	50,50,50,50	1
59	MG	BA	3094	1/1	0.77	0.21	32,32,32,32	0
59	MG	AA	1881	1/1	0.77	0.18	98,98,98,98	0
59	MG	AA	1833	1/1	0.77	0.15	87,87,87,87	0
59	MG	DA	3719	1/1	0.77	0.24	73,73,73,73	0
59	MG	DA	3015	1/1	0.77	0.34	81,81,81,81	0
59	MG	AA	1946	1/1	0.77	0.24	77,77,77,77	0
59	MG	BA	3502	1/1	0.77	1.20	132,132,132,132	0
59	MG	DA	3526	1/1	0.77	0.27	11,11,11,11	1
59	MG	DA	3538	1/1	0.77	0.33	118,118,118,118	0
59	MG	CA	1758	1/1	0.77	0.14	126,126,126,126	0
59	MG	DA	3549	1/1	0.77	0.17	97,97,97,97	0
59	MG	DA	3030	1/1	0.77	0.35	59,59,59,59	0
59	MG	DA	3555	1/1	0.77	0.34	105,105,105,105	0
59	MG	BA	3513	1/1	0.77	0.21	77,77,77,77	0
59	MG	DA	3566	1/1	0.77	0.12	106,106,106,106	0
59	MG	AA	1922	1/1	0.77	0.09	82,82,82,82	0
59	MG	AA	1713	1/1	0.77	0.17	70,70,70,70	0
59	MG	AA	1952	1/1	0.77	0.43	97,97,97,97	0
59	MG	CA	1771	1/1	0.77	0.28	96,96,96,96	0
59	MG	BA	3545	1/1	0.77	0.33	79,79,79,79	0
59	MG	CA	1774	1/1	0.77	0.29	111,111,111,111	1
59	MG	AA	1781	1/1	0.77	0.17	111,111,111,111	0
59	MG	CA	1779	1/1	0.77	0.28	102,102,102,102	0
59	MG	BA	3387	1/1	0.77	0.15	87,87,87,87	0
59	MG	BA	3039	1/1	0.77	0.42	81,81,81,81	0
59	MG	DA	3214	1/1	0.77	0.39	102,102,102,102	0
59	MG	AA	1697	1/1	0.78	0.38	76,76,76,76	0
59	MG	DA	3261	1/1	0.78	0.40	34,34,34,34	1
59	MG	D7	104	1/1	0.78	0.57	82,82,82,82	1
59	MG	DA	3651	1/1	0.78	0.75	93,93,93,93	0
59	MG	BA	3045	1/1	0.78	0.20	75,75,75,75	0
59	MG	CA	1601	1/1	0.78	0.12	96,96,96,96	0
59	MG	CA	1605	1/1	0.78	0.24	49,49,49,49	1
59	MG	DA	3666	1/1	0.78	0.27	66,66,66,66	0
59	MG	DA	3468	1/1	0.78	0.43	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1850	1/1	0.78	0.53	89,89,89,89	0
59	MG	BA	2922	1/1	0.78	0.41	95,95,95,95	0
59	MG	DA	3478	1/1	0.78	0.30	112,112,112,112	0
59	MG	BA	3564	1/1	0.78	0.45	113,113,113,113	0
59	MG	DA	3326	1/1	0.78	0.16	63,63,63,63	0
59	MG	AA	1772	1/1	0.78	0.21	85,85,85,85	0
59	MG	DA	3330	1/1	0.78	0.41	1,1,1,1	1
59	MG	DA	3695	1/1	0.78	0.27	81,81,81,81	0
59	MG	CA	1620	1/1	0.78	0.18	87,87,87,87	0
59	MG	BA	3138	1/1	0.78	0.14	60,60,60,60	0
59	MG	AA	1727	1/1	0.78	0.20	84,84,84,84	1
59	MG	AA	1729	1/1	0.78	0.13	50,50,50,50	0
59	MG	AA	1904	1/1	0.78	0.15	81,81,81,81	0
59	MG	DA	3516	1/1	0.78	0.54	97,97,97,97	0
59	MG	CA	1703	1/1	0.78	0.19	82,82,82,82	0
59	MG	DA	3059	1/1	0.78	0.29	77,77,77,77	0
59	MG	BA	3491	1/1	0.78	0.13	70,70,70,70	0
59	MG	BA	3149	1/1	0.78	0.30	86,86,86,86	0
59	MG	CA	1639	1/1	0.78	0.14	95,95,95,95	0
59	MG	AA	1709	1/1	0.78	0.28	85,85,85,85	1
59	MG	DA	3382	1/1	0.78	0.11	101,101,101,101	0
59	MG	DA	3556	1/1	0.78	0.42	97,97,97,97	0
59	MG	DA	3071	1/1	0.78	0.33	71,71,71,71	0
59	MG	AA	1906	1/1	0.78	0.29	65,65,65,65	1
59	MG	BA	3019	1/1	0.78	0.31	66,66,66,66	0
59	MG	DA	3780	1/1	0.78	0.25	77,77,77,77	0
59	MG	AA	1750	1/1	0.78	0.18	54,54,54,54	1
59	MG	CA	1724	1/1	0.78	0.24	102,102,102,102	0
59	MG	AA	1677	1/1	0.78	0.17	76,76,76,76	1
59	MG	BA	3605	1/1	0.78	0.33	79,79,79,79	0
59	MG	DA	3421	1/1	0.78	0.26	71,71,71,71	0
59	MG	DA	2957	1/1	0.78	0.29	47,47,47,47	0
59	MG	CA	1730	1/1	0.78	0.10	106,106,106,106	0
59	MG	BB	206	1/1	0.78	0.25	90,90,90,90	1
59	MG	DB	209	1/1	0.78	0.18	95,95,95,95	0
59	MG	DA	3235	1/1	0.78	0.23	110,110,110,110	0
59	MG	D1	101	1/1	0.78	0.10	75,75,75,75	0
59	MG	BA	3532	1/1	0.78	0.33	88,88,88,88	0
59	MG	BA	2981	1/1	0.78	0.29	80,80,80,80	0
59	MG	AA	1637	1/1	0.79	0.26	78,78,78,78	1
59	MG	BA	3233	1/1	0.79	0.21	73,73,73,73	0
59	MG	BA	2970	1/1	0.79	0.36	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	CA	1708	1/1	0.79	0.16	64,64,64,64	1
59	MG	CA	1659	1/1	0.79	0.34	100,100,100,100	0
59	MG	AA	1686	1/1	0.79	0.16	81,81,81,81	0
59	MG	CA	1766	1/1	0.79	0.17	118,118,118,118	0
59	MG	BA	3477	1/1	0.79	0.72	128,128,128,128	0
59	MG	BA	3550	1/1	0.79	0.20	103,103,103,103	0
59	MG	AA	1787	1/1	0.79	0.17	109,109,109,109	0
59	MG	BB	204	1/1	0.79	0.12	109,109,109,109	0
59	MG	DA	3736	1/1	0.79	0.23	77,77,77,77	1
59	MG	DA	3417	1/1	0.79	0.25	48,48,48,48	1
59	MG	AA	1803	1/1	0.79	0.12	98,98,98,98	0
59	MG	AA	1736	1/1	0.79	0.27	101,101,101,101	0
59	MG	DA	2912	1/1	0.79	0.24	68,68,68,68	0
59	MG	CA	1636	1/1	0.79	0.21	77,77,77,77	0
59	MG	DA	2982	1/1	0.79	0.47	97,97,97,97	0
59	MG	DA	3531	1/1	0.79	0.21	82,82,82,82	0
59	MG	DA	3534	1/1	0.79	0.44	73,73,73,73	1
59	MG	CA	1681	1/1	0.79	0.13	95,95,95,95	0
59	MG	BA	3259	1/1	0.79	0.17	59,59,59,59	0
59	MG	DA	3787	1/1	0.79	0.33	95,95,95,95	0
59	MG	BN	201	1/1	0.79	0.20	64,64,64,64	0
59	MG	CA	1739	1/1	0.79	0.17	104,104,104,104	0
59	MG	DA	3343	1/1	0.79	0.25	69,69,69,69	0
59	MG	DA	2927	1/1	0.79	1.15	1,1,1,1	1
59	MG	BA	2908	1/1	0.79	0.16	84,84,84,84	0
59	MG	BA	3192	1/1	0.79	0.42	90,90,90,90	0
59	MG	DA	3693	1/1	0.79	0.21	33,33,33,33	1
59	MG	AA	1798	1/1	0.79	0.14	114,114,114,114	0
59	MG	BA	3430	1/1	0.79	0.15	68,68,68,68	0
59	MG	DA	3667	1/1	0.80	0.36	46,46,46,46	1
59	MG	AA	1742	1/1	0.80	0.10	63,63,63,63	1
59	MG	BA	2984	1/1	0.80	0.17	92,92,92,92	0
59	MG	DA	3510	1/1	0.80	0.10	59,59,59,59	0
59	MG	AA	1775	1/1	0.80	0.18	92,92,92,92	0
59	MG	DA	3197	1/1	0.80	0.17	67,67,67,67	0
59	MG	DA	3682	1/1	0.80	0.43	103,103,103,103	0
59	MG	BA	3115	1/1	0.80	0.52	93,93,93,93	0
59	MG	DA	3519	1/1	0.80	0.12	77,77,77,77	0
59	MG	BA	3071	1/1	0.80	0.51	110,110,110,110	0
59	MG	AA	1834	1/1	0.80	0.23	94,94,94,94	0
59	MG	BA	3313	1/1	0.80	0.24	70,70,70,70	0
59	MG	CA	1762	1/1	0.80	0.16	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1805	1/1	0.80	0.13	102,102,102,102	0
59	MG	BA	3084	1/1	0.80	0.24	88,88,88,88	0
59	MG	BA	3246	1/1	0.80	0.16	68,68,68,68	0
59	MG	DA	2989	1/1	0.80	0.21	83,83,83,83	0
59	MG	BA	3522	1/1	0.80	0.30	74,74,74,74	0
59	MG	DA	3241	1/1	0.80	0.91	34,34,34,34	1
59	MG	DA	3252	1/1	0.80	0.20	87,87,87,87	0
59	MG	BA	3031	1/1	0.80	0.19	58,58,58,58	0
59	MG	DA	3569	1/1	0.80	0.46	102,102,102,102	0
59	MG	BA	3258	1/1	0.80	0.40	69,69,69,69	0
59	MG	BA	3536	1/1	0.80	0.21	73,73,73,73	0
59	MG	BE	301	1/1	0.80	0.25	88,88,88,88	0
59	MG	CA	1648	1/1	0.80	0.33	90,90,90,90	0
59	MG	DA	3583	1/1	0.80	0.24	64,64,64,64	0
59	MG	BA	3037	1/1	0.80	0.32	64,64,64,64	0
59	MG	DA	3291	1/1	0.80	0.24	88,88,88,88	0
59	MG	BH	202	1/1	0.80	0.09	95,95,95,95	0
59	MG	AY	102	1/1	0.80	0.27	104,104,104,104	1
59	MG	DA	3618	1/1	0.80	0.30	72,72,72,72	0
59	MG	BA	3340	1/1	0.80	0.53	99,99,99,99	0
59	MG	BA	3422	1/1	0.80	0.12	68,68,68,68	0
59	MG	DA	3632	1/1	0.80	0.20	56,56,56,56	0
59	MG	CJ	202	1/1	0.80	0.10	130,130,130,130	0
59	MG	BA	3040	1/1	0.80	0.33	79,79,79,79	0
59	MG	DA	3062	1/1	0.80	0.31	88,88,88,88	0
59	MG	AA	1965	1/1	0.80	0.33	97,97,97,97	0
59	MG	DA	3151	1/1	0.80	0.34	73,73,73,73	0
59	MG	AA	1886	1/1	0.80	0.43	84,84,84,84	0
59	MG	BA	3566	1/1	0.80	0.39	66,66,66,66	1
59	MG	CA	1675	1/1	0.80	0.29	93,93,93,93	0
59	MG	BA	3353	1/1	0.80	0.39	107,107,107,107	0
59	MG	DA	2953	1/1	0.80	0.33	99,99,99,99	0
59	MG	CA	1686	1/1	0.81	0.17	74,74,74,74	0
59	MG	BA	3556	1/1	0.81	0.29	116,116,116,116	0
59	MG	BA	3558	1/1	0.81	0.21	78,78,78,78	0
59	MG	AA	1876	1/1	0.81	0.19	92,92,92,92	1
59	MG	AA	1880	1/1	0.81	0.25	102,102,102,102	0
59	MG	CA	1621	1/1	0.81	0.13	89,89,89,89	0
59	MG	AA	1793	1/1	0.81	0.17	75,75,75,75	0
59	MG	BA	3569	1/1	0.81	0.60	113,113,113,113	0
59	MG	DA	3224	1/1	0.81	0.26	85,85,85,85	0
59	MG	DA	3642	1/1	0.81	0.34	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1676	1/1	0.81	0.12	68,68,68,68	0
59	MG	BA	3575	1/1	0.81	0.31	92,92,92,92	0
59	MG	AA	1917	1/1	0.81	0.27	78,78,78,78	0
59	MG	DA	3086	1/1	0.81	0.12	60,60,60,60	0
59	MG	AA	1950	1/1	0.81	0.34	81,81,81,81	0
59	MG	BA	3008	1/1	0.81	0.29	123,123,123,123	0
59	MG	DA	3098	1/1	0.81	0.16	86,86,86,86	0
59	MG	CV	104	1/1	0.81	0.08	86,86,86,86	0
59	MG	DA	3107	1/1	0.81	0.11	103,103,103,103	0
59	MG	AA	1920	1/1	0.81	0.10	73,73,73,73	0
59	MG	BA	3174	1/1	0.81	0.25	83,83,83,83	0
59	MG	BA	3482	1/1	0.81	0.63	144,144,144,144	0
59	MG	DA	3272	1/1	0.81	0.20	79,79,79,79	1
59	MG	DA	2969	1/1	0.81	0.29	98,98,98,98	0
59	MG	BA	2950	1/1	0.81	0.14	55,55,55,55	1
59	MG	DA	3489	1/1	0.81	0.19	59,59,59,59	1
59	MG	DA	3293	1/1	0.81	0.20	70,70,70,70	0
59	MG	AA	1835	1/1	0.81	0.37	102,102,102,102	0
59	MG	DA	3316	1/1	0.81	0.24	59,59,59,59	1
59	MG	AA	1737	1/1	0.81	0.28	69,69,69,69	0
59	MG	DA	3505	1/1	0.81	0.36	125,125,125,125	0
59	MG	DA	3710	1/1	0.81	0.43	92,92,92,92	0
59	MG	BA	3274	1/1	0.81	0.31	83,83,83,83	0
59	MG	DA	3324	1/1	0.81	0.26	66,66,66,66	1
59	MG	DA	3512	1/1	0.81	0.52	104,104,104,104	0
59	MG	DA	3716	1/1	0.81	0.45	103,103,103,103	0
59	MG	BA	3604	1/1	0.81	0.51	82,82,82,82	0
59	MG	AA	1738	1/1	0.81	0.34	59,59,59,59	0
59	MG	BA	3505	1/1	0.81	0.43	95,95,95,95	0
59	MG	BA	3035	1/1	0.81	0.32	42,42,42,42	0
59	MG	AA	1755	1/1	0.81	0.17	34,34,34,34	1
59	MG	AA	1635	1/1	0.81	0.47	108,108,108,108	0
59	MG	BA	3293	1/1	0.81	0.17	82,82,82,82	0
59	MG	DA	3009	1/1	0.81	0.42	83,83,83,83	0
59	MG	BA	3300	1/1	0.81	0.21	71,71,71,71	0
59	MG	CA	1754	1/1	0.81	0.10	78,78,78,78	1
59	MG	DA	3756	1/1	0.81	0.39	106,106,106,106	0
59	MG	DA	3550	1/1	0.81	0.60	86,86,86,86	0
59	MG	CA	1672	1/1	0.81	0.17	92,92,92,92	0
59	MG	DA	3023	1/1	0.81	0.21	41,41,41,41	0
59	MG	DA	3372	1/1	0.81	0.14	82,82,82,82	0
59	MG	BA	2976	1/1	0.81	0.16	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3153	1/1	0.81	0.20	68,68,68,68	0
59	MG	DA	3154	1/1	0.81	0.20	58,58,58,58	0
59	MG	AA	1902	1/1	0.81	0.11	90,90,90,90	0
59	MG	AA	1829	1/1	0.81	0.34	91,91,91,91	0
59	MG	DA	3036	1/1	0.81	0.32	76,76,76,76	0
59	MG	AA	1634	1/1	0.81	0.20	70,70,70,70	1
59	MG	AA	1691	1/1	0.81	0.36	90,90,90,90	0
59	MG	DB	205	1/1	0.81	0.20	82,82,82,82	0
59	MG	BA	3058	1/1	0.81	0.26	74,74,74,74	0
59	MG	DA	3584	1/1	0.81	0.22	80,80,80,80	0
59	MG	DA	3587	1/1	0.81	0.34	74,74,74,74	0
59	MG	DA	3590	1/1	0.81	0.17	67,67,67,67	0
59	MG	DA	3407	1/1	0.81	0.34	77,77,77,77	1
59	MG	DA	3409	1/1	0.81	0.14	53,53,53,53	1
59	MG	CA	1738	1/1	0.82	0.09	80,80,80,80	0
59	MG	DA	3624	1/1	0.82	0.19	71,71,71,71	0
59	MG	BA	3591	1/1	0.82	0.53	93,93,93,93	0
59	MG	CA	1654	1/1	0.82	0.17	77,77,77,77	0
59	MG	CA	1743	1/1	0.82	0.20	81,81,81,81	0
59	MG	CA	1655	1/1	0.82	0.13	84,84,84,84	0
59	MG	DA	3446	1/1	0.82	0.19	52,52,52,52	0
59	MG	BA	3004	1/1	0.82	0.27	84,84,84,84	0
59	MG	AA	1809	1/1	0.82	0.27	92,92,92,92	0
59	MG	DA	3643	1/1	0.82	0.21	113,113,113,113	0
59	MG	BA	2935	1/1	0.82	0.60	102,102,102,102	0
59	MG	BA	3010	1/1	0.82	0.41	95,95,95,95	0
59	MG	AA	1955	1/1	0.82	0.32	64,64,64,64	1
59	MG	BA	3494	1/1	0.82	0.25	77,77,77,77	0
59	MG	AA	1956	1/1	0.82	0.30	58,58,58,58	0
59	MG	DA	2938	1/1	0.82	0.50	17,17,17,17	1
59	MG	BA	3500	1/1	0.82	0.21	79,79,79,79	0
59	MG	AA	1958	1/1	0.82	0.19	106,106,106,106	0
59	MG	DA	3091	1/1	0.82	0.66	119,119,119,119	0
59	MG	AA	1768	1/1	0.82	0.38	107,107,107,107	0
59	MG	BA	3186	1/1	0.82	0.15	81,81,81,81	0
59	MG	BA	3511	1/1	0.82	0.22	73,73,73,73	0
59	MG	AA	1814	1/1	0.82	0.30	77,77,77,77	0
59	MG	DA	3483	1/1	0.82	0.32	55,55,55,55	0
59	MG	DA	2949	1/1	0.82	0.35	98,98,98,98	1
59	MG	DA	3487	1/1	0.82	0.45	42,42,42,42	1
59	MG	DA	3109	1/1	0.82	0.18	90,90,90,90	0
59	MG	AA	1745	1/1	0.82	0.32	50,50,50,50	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3365	1/1	0.82	0.23	112,112,112,112	0
59	MG	BA	3104	1/1	0.82	0.34	78,78,78,78	0
59	MG	BA	3109	1/1	0.82	0.16	35,35,35,35	0
59	MG	AA	1786	1/1	0.82	0.15	123,123,123,123	0
59	MG	AA	1941	1/1	0.82	0.20	63,63,63,63	0
59	MG	AA	1621	1/1	0.82	0.40	98,98,98,98	0
59	MG	AA	1681	1/1	0.82	0.18	106,106,106,106	0
59	MG	DA	3130	1/1	0.82	0.37	108,108,108,108	0
59	MG	AA	1703	1/1	0.82	0.11	44,44,44,44	1
59	MG	DA	3338	1/1	0.82	0.31	68,68,68,68	0
59	MG	DA	3340	1/1	0.82	0.33	96,96,96,96	0
59	MG	DA	3522	1/1	0.82	0.37	56,56,56,56	0
59	MG	DA	3132	1/1	0.82	0.28	49,49,49,49	0
59	MG	BA	3399	1/1	0.82	0.69	146,146,146,146	0
59	MG	AA	1894	1/1	0.82	0.18	90,90,90,90	0
59	MG	BA	3401	1/1	0.82	0.23	75,75,75,75	0
59	MG	DA	3347	1/1	0.82	0.14	71,71,71,71	0
59	MG	BA	3561	1/1	0.82	0.27	122,122,122,122	0
59	MG	DA	3352	1/1	0.82	0.18	58,58,58,58	0
59	MG	DA	3767	1/1	0.82	0.27	67,67,67,67	0
59	MG	DA	2986	1/1	0.82	0.35	142,142,142,142	0
59	MG	DA	2987	1/1	0.82	0.28	68,68,68,68	0
59	MG	CA	1714	1/1	0.82	0.28	83,83,83,83	0
59	MG	BA	3122	1/1	0.82	0.33	106,106,106,106	0
59	MG	CA	1717	1/1	0.82	0.21	78,78,78,78	0
59	MG	BA	3127	1/1	0.82	0.15	71,71,71,71	0
59	MG	AA	1895	1/1	0.82	0.22	72,72,72,72	0
59	MG	AA	1725	1/1	0.82	0.30	70,70,70,70	1
59	MG	BA	3325	1/1	0.82	0.23	84,84,84,84	0
59	MG	BA	3327	1/1	0.82	0.31	59,59,59,59	0
59	MG	BA	3445	1/1	0.82	0.58	111,111,111,111	0
59	MG	DA	3401	1/1	0.82	0.38	65,65,65,65	0
59	MG	AA	1927	1/1	0.82	0.19	113,113,113,113	0
59	MG	BA	3458	1/1	0.82	0.42	104,104,104,104	0
59	MG	DA	2905	1/1	0.82	0.09	80,80,80,80	0
59	MG	DA	3028	1/1	0.82	0.33	79,79,79,79	0
59	MG	CA	1732	1/1	0.82	0.10	70,70,70,70	0
59	MG	AA	1777	1/1	0.82	0.31	115,115,115,115	0
59	MG	BA	3239	1/1	0.82	0.14	77,77,77,77	0
59	MG	DA	2967	1/1	0.83	1.36	35,35,35,35	1
59	MG	DA	3360	1/1	0.83	0.28	99,99,99,99	0
59	MG	B6	101	1/1	0.83	0.13	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3659	1/1	0.83	0.44	88,88,88,88	0
59	MG	DA	3503	1/1	0.83	0.15	59,59,59,59	0
59	MG	AA	1807	1/1	0.83	0.17	61,61,61,61	0
59	MG	BA	3345	1/1	0.83	0.28	37,37,37,37	0
59	MG	AA	1754	1/1	0.83	0.12	124,124,124,124	0
59	MG	DA	3101	1/1	0.83	0.54	97,97,97,97	0
59	MG	BA	3453	1/1	0.83	0.10	120,120,120,120	0
59	MG	AA	1860	1/1	0.83	0.31	61,61,61,61	0
59	MG	CA	1753	1/1	0.83	0.09	103,103,103,103	0
59	MG	AA	1797	1/1	0.83	0.15	76,76,76,76	0
59	MG	DA	3520	1/1	0.83	0.23	103,103,103,103	0
59	MG	CA	1755	1/1	0.83	0.28	100,100,100,100	0
59	MG	BA	3080	1/1	0.83	0.39	83,83,83,83	0
59	MG	DA	2909	1/1	0.83	0.35	83,83,83,83	0
59	MG	BA	2973	1/1	0.83	0.26	85,85,85,85	0
59	MG	DA	3406	1/1	0.83	1.24	38,38,38,38	1
59	MG	DA	3539	1/1	0.83	0.23	70,70,70,70	0
59	MG	DA	3248	1/1	0.83	0.09	62,62,62,62	0
59	MG	DA	3548	1/1	0.83	0.28	50,50,50,50	1
59	MG	DA	2993	1/1	0.83	0.49	96,96,96,96	0
59	MG	BA	2917	1/1	0.83	0.22	84,84,84,84	0
59	MG	BA	3018	1/1	0.83	0.20	38,38,38,38	0
59	MG	DA	3553	1/1	0.83	0.37	68,68,68,68	0
59	MG	BA	3485	1/1	0.83	0.36	103,103,103,103	0
59	MG	AA	1912	1/1	0.83	0.15	57,57,57,57	1
59	MG	DA	3718	1/1	0.83	0.30	92,92,92,92	0
59	MG	DA	3561	1/1	0.83	0.23	81,81,81,81	1
59	MG	DA	3432	1/1	0.83	0.65	86,86,86,86	1
59	MG	BA	3225	1/1	0.83	0.15	62,62,62,62	0
59	MG	CA	1635	1/1	0.83	0.15	93,93,93,93	0
59	MG	AA	1710	1/1	0.83	0.19	77,77,77,77	0
59	MG	AX	102	1/1	0.83	0.06	87,87,87,87	0
59	MG	DA	3572	1/1	0.83	0.23	56,56,56,56	1
59	MG	DA	3744	1/1	0.83	0.11	93,93,93,93	1
59	MG	AA	1611	1/1	0.83	0.10	66,66,66,66	0
59	MG	DA	3750	1/1	0.83	0.24	84,84,84,84	0
59	MG	DA	3751	1/1	0.83	0.27	82,82,82,82	0
59	MG	BA	3384	1/1	0.83	0.43	95,95,95,95	0
59	MG	DA	3304	1/1	0.83	0.34	84,84,84,84	0
59	MG	DA	3761	1/1	0.83	0.29	96,96,96,96	0
59	MG	DA	3311	1/1	0.83	0.43	96,96,96,96	0
59	MG	AA	1919	1/1	0.83	0.14	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3597	1/1	0.83	0.31	53,53,53,53	1
59	MG	CA	1784	1/1	0.83	0.25	76,76,76,76	0
59	MG	BA	2939	1/1	0.83	0.20	80,80,80,80	0
59	MG	BA	2945	1/1	0.83	0.25	113,113,113,113	0
59	MG	DA	3602	1/1	0.83	0.20	76,76,76,76	0
59	MG	DA	3607	1/1	0.83	0.30	104,104,104,104	0
59	MG	BA	3105	1/1	0.83	0.37	79,79,79,79	0
59	MG	BA	3326	1/1	0.83	0.30	77,77,77,77	0
59	MG	BA	2994	1/1	0.83	0.26	80,80,80,80	0
59	MG	BA	3111	1/1	0.83	0.16	79,79,79,79	0
59	MG	BA	3403	1/1	0.83	0.08	69,69,69,69	0
59	MG	BE	304	1/1	0.83	0.16	46,46,46,46	1
59	MG	BA	3405	1/1	0.83	0.24	44,44,44,44	0
59	MG	BA	3254	1/1	0.83	0.32	93,93,93,93	0
59	MG	AA	1848	1/1	0.83	0.33	117,117,117,117	0
59	MG	DA	3179	1/1	0.83	0.27	66,66,66,66	0
59	MG	DN	203	1/1	0.83	0.18	64,64,64,64	1
59	MG	BA	3338	1/1	0.83	0.30	97,97,97,97	0
59	MG	DP	206	1/1	0.83	0.23	82,82,82,82	0
59	MG	BA	3002	1/1	0.83	0.35	83,83,83,83	0
59	MG	AA	1728	1/1	0.84	0.16	78,78,78,78	0
59	MG	BA	3006	1/1	0.84	0.24	68,68,68,68	0
59	MG	AA	1870	1/1	0.84	0.29	73,73,73,73	0
59	MG	DA	3650	1/1	0.84	0.14	106,106,106,106	0
59	MG	CA	1660	1/1	0.84	0.14	99,99,99,99	0
59	MG	AA	1767	1/1	0.84	0.26	77,77,77,77	0
59	MG	AA	1874	1/1	0.84	0.06	111,111,111,111	0
59	MG	BA	3241	1/1	0.84	0.10	44,44,44,44	0
59	MG	DA	3664	1/1	0.84	0.24	85,85,85,85	0
59	MG	AA	1969	1/1	0.84	0.31	83,83,83,83	0
59	MG	BA	3421	1/1	0.84	0.26	68,68,68,68	0
59	MG	AA	1663	1/1	0.84	0.16	95,95,95,95	0
59	MG	CA	1674	1/1	0.84	0.12	90,90,90,90	0
59	MG	BA	2975	1/1	0.84	0.28	57,57,57,57	0
59	MG	BA	3555	1/1	0.84	0.31	60,60,60,60	0
59	MG	BA	3159	1/1	0.84	0.24	72,72,72,72	0
59	MG	DA	2922	1/1	0.84	0.29	65,65,65,65	0
59	MG	BA	3096	1/1	0.84	0.38	102,102,102,102	0
59	MG	AA	1810	1/1	0.84	0.17	71,71,71,71	0
59	MG	DA	3688	1/1	0.84	0.17	107,107,107,107	1
59	MG	DA	3163	1/1	0.84	0.15	49,49,49,49	0
59	MG	AA	1944	1/1	0.84	0.20	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3692	1/1	0.84	0.30	61,61,61,61	0
59	MG	DA	3363	1/1	0.84	0.21	69,69,69,69	0
59	MG	CA	1618	1/1	0.84	0.28	79,79,79,79	0
59	MG	DA	3524	1/1	0.84	0.13	61,61,61,61	0
59	MG	BA	3032	1/1	0.84	0.49	88,88,88,88	0
59	MG	CA	1691	1/1	0.84	0.15	103,103,103,103	0
59	MG	AA	1716	1/1	0.84	0.26	82,82,82,82	0
59	MG	DA	2937	1/1	0.84	0.27	63,63,63,63	1
59	MG	AA	1631	1/1	0.84	0.24	85,85,85,85	0
59	MG	AA	1839	1/1	0.84	0.24	74,74,74,74	0
59	MG	AA	1843	1/1	0.84	0.18	99,99,99,99	0
59	MG	DA	3388	1/1	0.84	0.20	78,78,78,78	0
59	MG	BA	3479	1/1	0.84	0.21	133,133,133,133	0
59	MG	CA	1628	1/1	0.84	0.13	88,88,88,88	0
59	MG	DA	3210	1/1	0.84	0.37	71,71,71,71	0
59	MG	BA	3578	1/1	0.84	0.20	76,76,76,76	0
59	MG	DA	3076	1/1	0.84	0.23	75,75,75,75	0
59	MG	CA	1630	1/1	0.84	0.10	68,68,68,68	0
59	MG	AA	1751	1/1	0.84	0.11	104,104,104,104	0
59	MG	DA	3737	1/1	0.84	0.30	74,74,74,74	0
59	MG	DA	3739	1/1	0.84	0.21	95,95,95,95	0
59	MG	DA	3408	1/1	0.84	0.13	41,41,41,41	0
59	MG	DA	3231	1/1	0.84	0.24	98,98,98,98	0
59	MG	BA	3203	1/1	0.84	0.19	75,75,75,75	0
59	MG	AA	1667	1/1	0.84	0.12	49,49,49,49	0
59	MG	BA	3367	1/1	0.84	0.53	96,96,96,96	0
59	MG	DA	3095	1/1	0.84	0.26	42,42,42,42	0
59	MG	DA	3424	1/1	0.84	0.35	84,84,84,84	0
59	MG	DA	3762	1/1	0.84	0.17	99,99,99,99	0
59	MG	CM	202	1/1	0.84	0.20	151,151,151,151	0
59	MG	DA	3581	1/1	0.84	0.26	88,88,88,88	1
59	MG	BA	3206	1/1	0.84	0.36	59,59,59,59	0
59	MG	DA	2959	1/1	0.84	0.30	61,61,61,61	0
59	MG	DA	3250	1/1	0.84	0.12	69,69,69,69	0
59	MG	AA	1822	1/1	0.84	0.35	60,60,60,60	0
59	MG	DA	3106	1/1	0.84	0.10	77,77,77,77	0
59	MG	BA	3046	1/1	0.84	0.08	90,90,90,90	0
59	MG	DA	2962	1/1	0.84	0.28	84,84,84,84	0
59	MG	CV	107	1/1	0.84	0.27	115,115,115,115	0
59	MG	AA	1791	1/1	0.84	0.17	93,93,93,93	0
59	MG	BA	3386	1/1	0.84	0.38	72,72,72,72	0
59	MG	DA	3286	1/1	0.84	0.08	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3461	1/1	0.84	0.29	77,77,77,77	0
59	MG	DA	3288	1/1	0.84	0.16	60,60,60,60	0
59	MG	CA	1647	1/1	0.84	0.13	77,77,77,77	0
59	MG	CY	101	1/1	0.84	0.05	143,143,143,143	0
59	MG	DA	3633	1/1	0.84	0.23	75,75,75,75	0
59	MG	AA	1898	1/1	0.84	0.21	65,65,65,65	0
59	MG	AA	1763	1/1	0.84	0.23	88,88,88,88	0
59	MG	BA	3061	1/1	0.84	0.25	63,63,63,63	0
59	MG	AA	1804	1/1	0.84	0.28	90,90,90,90	0
59	MG	DA	3155	1/1	0.85	0.44	78,78,78,78	0
59	MG	BA	3211	1/1	0.85	0.14	67,67,67,67	0
59	MG	DA	3159	1/1	0.85	0.26	85,85,85,85	0
59	MG	DA	3047	1/1	0.85	0.42	88,88,88,88	0
59	MG	CA	1624	1/1	0.85	0.19	86,86,86,86	0
59	MG	DA	2935	1/1	0.85	0.82	12,12,12,12	1
59	MG	BA	3330	1/1	0.85	0.41	88,88,88,88	0
59	MG	AA	1918	1/1	0.85	0.17	64,64,64,64	0
59	MG	BA	3497	1/1	0.85	0.44	85,85,85,85	0
59	MG	DA	3679	1/1	0.85	0.14	51,51,51,51	0
59	MG	DA	3185	1/1	0.85	0.09	79,79,79,79	0
59	MG	CA	1701	1/1	0.85	0.14	83,83,83,83	0
59	MG	DA	3684	1/1	0.85	0.24	82,82,82,82	0
59	MG	DA	3190	1/1	0.85	0.21	97,97,97,97	0
59	MG	BA	3581	1/1	0.85	0.40	95,95,95,95	0
59	MG	AA	1644	1/1	0.85	0.21	84,84,84,84	0
59	MG	BA	3270	1/1	0.85	0.11	60,60,60,60	0
59	MG	AA	1774	1/1	0.85	0.33	120,120,120,120	0
59	MG	DA	3205	1/1	0.85	0.20	130,130,130,130	0
59	MG	BA	3590	1/1	0.85	0.12	90,90,90,90	0
59	MG	BA	3217	1/1	0.85	0.12	72,72,72,72	0
59	MG	AA	1830	1/1	0.85	0.15	86,86,86,86	0
59	MG	DA	2951	1/1	0.85	0.40	102,102,102,102	0
59	MG	AA	1840	1/1	0.85	0.29	76,76,76,76	0
59	MG	BA	3512	1/1	0.85	0.14	51,51,51,51	0
59	MG	AA	1925	1/1	0.85	0.09	72,72,72,72	0
59	MG	BA	3411	1/1	0.85	0.21	76,76,76,76	0
59	MG	AA	1869	1/1	0.85	0.35	75,75,75,75	0
59	MG	BA	3290	1/1	0.85	0.22	86,86,86,86	0
59	MG	AA	1723	1/1	0.85	0.10	91,91,91,91	0
59	MG	AA	1782	1/1	0.85	0.12	103,103,103,103	0
59	MG	D0	102	1/1	0.85	0.14	75,75,75,75	0
59	MG	BA	3123	1/1	0.85	0.29	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3544	1/1	0.85	0.18	62,62,62,62	0
59	MG	BA	2971	1/1	0.85	0.47	92,92,92,92	0
59	MG	DA	3112	1/1	0.85	0.14	87,87,87,87	0
59	MG	DA	3438	1/1	0.85	0.26	76,76,76,76	0
59	MG	BA	3308	1/1	0.85	0.34	53,53,53,53	1
59	MG	BA	3194	1/1	0.85	0.16	67,67,67,67	0
59	MG	DA	3745	1/1	0.85	0.22	56,56,56,56	0
59	MG	D7	103	1/1	0.85	0.80	69,69,69,69	0
59	MG	DA	2984	1/1	0.85	0.31	66,66,66,66	1
59	MG	BA	3553	1/1	0.85	0.13	106,106,106,106	0
59	MG	BA	3450	1/1	0.85	0.27	60,60,60,60	0
59	MG	DA	3594	1/1	0.85	0.15	63,63,63,63	1
59	MG	CA	1745	1/1	0.85	0.13	112,112,112,112	0
59	MG	BO	201	1/1	0.85	0.26	88,88,88,88	0
59	MG	DA	3766	1/1	0.85	0.32	100,100,100,100	0
59	MG	AA	1825	1/1	0.85	0.29	71,71,71,71	0
59	MG	DA	3608	1/1	0.85	0.31	61,61,61,61	0
59	MG	DA	3292	1/1	0.85	0.45	106,106,106,106	0
59	MG	BR	203	1/1	0.85	0.30	83,83,83,83	0
59	MG	AA	1856	1/1	0.85	0.28	80,80,80,80	0
59	MG	DA	3619	1/1	0.85	0.11	69,69,69,69	0
59	MG	DA	3466	1/1	0.85	0.30	40,40,40,40	0
59	MG	BA	3557	1/1	0.85	0.35	37,37,37,37	1
59	MG	DA	3001	1/1	0.85	0.07	79,79,79,79	0
59	MG	AA	1690	1/1	0.85	0.11	81,81,81,81	1
59	MG	DA	3320	1/1	0.85	0.11	78,78,78,78	0
59	MG	BA	3560	1/1	0.85	0.37	83,83,83,83	0
59	MG	DA	3139	1/1	0.85	0.21	89,89,89,89	0
59	MG	BA	3320	1/1	0.85	0.31	92,92,92,92	0
59	MG	BA	3382	1/1	0.85	0.08	77,77,77,77	0
59	MG	CA	1615	1/1	0.85	0.37	104,104,104,104	0
59	MG	CA	1684	1/1	0.85	0.17	64,64,64,64	0
59	MG	BA	2928	1/1	0.85	0.32	116,116,116,116	0
59	MG	AC	302	1/1	0.85	0.12	163,163,163,163	0
59	MG	DA	2926	1/1	0.85	0.13	45,45,45,45	1
59	MG	BA	3385	1/1	0.85	0.21	63,63,63,63	1
59	MG	BA	2982	1/1	0.85	0.07	58,58,58,58	1
59	MG	BA	3128	1/1	0.86	0.18	92,92,92,92	0
59	MG	DA	3255	1/1	0.86	0.27	51,51,51,51	0
59	MG	BA	3070	1/1	0.86	0.27	108,108,108,108	0
59	MG	AA	1748	1/1	0.86	0.26	23,23,23,23	1
59	MG	BA	3223	1/1	0.86	0.09	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	CA	1602	1/1	0.86	0.11	76,76,76,76	0
59	MG	CA	1603	1/1	0.86	0.20	112,112,112,112	0
59	MG	DA	3645	1/1	0.86	0.14	78,78,78,78	0
59	MG	AA	1678	1/1	0.86	0.22	76,76,76,76	0
59	MG	BA	3076	1/1	0.86	0.16	30,30,30,30	0
59	MG	BA	3145	1/1	0.86	0.13	89,89,89,89	0
59	MG	BA	2911	1/1	0.86	0.18	94,94,94,94	0
59	MG	DA	3474	1/1	0.86	0.42	99,99,99,99	0
59	MG	CA	1611	1/1	0.86	0.15	86,86,86,86	0
59	MG	DA	2975	1/1	0.86	0.20	56,56,56,56	0
59	MG	DA	3128	1/1	0.86	0.13	86,86,86,86	0
59	MG	BA	3414	1/1	0.86	0.17	67,67,67,67	0
59	MG	DA	3308	1/1	0.86	0.27	103,103,103,103	0
59	MG	AA	1724	1/1	0.86	0.17	86,86,86,86	1
59	MG	BA	2916	1/1	0.86	0.23	78,78,78,78	0
59	MG	BA	3333	1/1	0.86	0.30	72,72,72,72	0
59	MG	BA	3334	1/1	0.86	0.21	60,60,60,60	0
59	MG	AA	1872	1/1	0.86	0.18	77,77,77,77	0
59	MG	BA	3017	1/1	0.86	0.35	93,93,93,93	0
59	MG	BA	3443	1/1	0.86	0.18	76,76,76,76	0
59	MG	DA	3501	1/1	0.86	0.20	59,59,59,59	0
59	MG	AA	1619	1/1	0.86	0.15	111,111,111,111	0
59	MG	AA	1704	1/1	0.86	0.18	84,84,84,84	0
59	MG	BA	3020	1/1	0.86	0.15	103,103,103,103	0
59	MG	BA	3173	1/1	0.86	0.21	102,102,102,102	1
59	MG	BA	3455	1/1	0.86	0.25	65,65,65,65	0
59	MG	DA	3513	1/1	0.86	0.16	95,95,95,95	0
59	MG	DA	3147	1/1	0.86	0.24	90,90,90,90	0
59	MG	BA	3255	1/1	0.86	0.19	55,55,55,55	0
59	MG	BA	2978	1/1	0.86	0.30	75,75,75,75	0
59	MG	DA	3518	1/1	0.86	0.35	62,62,62,62	1
59	MG	DA	3005	1/1	0.86	0.09	69,69,69,69	0
59	MG	CA	1729	1/1	0.86	0.17	88,88,88,88	0
59	MG	BA	3463	1/1	0.86	0.28	66,66,66,66	0
59	MG	BA	3185	1/1	0.86	0.16	75,75,75,75	0
59	MG	DA	3355	1/1	0.86	0.10	80,80,80,80	0
59	MG	DA	3357	1/1	0.86	0.11	64,64,64,64	0
59	MG	CA	1733	1/1	0.86	0.07	76,76,76,76	0
59	MG	BA	3472	1/1	0.86	0.44	100,100,100,100	0
59	MG	BA	2924	1/1	0.86	0.14	73,73,73,73	0
59	MG	AA	1854	1/1	0.86	0.12	71,71,71,71	0
59	MG	DA	3544	1/1	0.86	0.18	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1903	1/1	0.86	0.11	79,79,79,79	0
59	MG	DA	2916	1/1	0.86	0.18	57,57,57,57	0
59	MG	DA	3373	1/1	0.86	0.51	75,75,75,75	0
59	MG	AA	1610	1/1	0.86	0.24	77,77,77,77	0
59	MG	DA	3173	1/1	0.86	0.16	48,48,48,48	0
59	MG	AA	1645	1/1	0.86	0.37	56,56,56,56	1
59	MG	CA	1649	1/1	0.86	0.24	92,92,92,92	0
59	MG	BA	3487	1/1	0.86	0.18	64,64,64,64	0
59	MG	AA	1718	1/1	0.86	0.16	98,98,98,98	0
59	MG	DA	3389	1/1	0.86	0.81	145,145,145,145	0
59	MG	BA	3278	1/1	0.86	0.33	71,71,71,71	0
59	MG	CA	1656	1/1	0.86	0.14	73,73,73,73	0
59	MG	DA	3400	1/1	0.86	0.19	63,63,63,63	1
59	MG	BA	3198	1/1	0.86	0.20	102,102,102,102	0
59	MG	AA	1951	1/1	0.86	0.16	82,82,82,82	0
59	MG	BA	2948	1/1	0.86	0.10	64,64,64,64	0
59	MG	BA	2998	1/1	0.86	0.18	54,54,54,54	0
59	MG	DA	2934	1/1	0.86	0.20	48,48,48,48	1
59	MG	DA	3211	1/1	0.86	0.18	65,65,65,65	0
59	MG	BA	3000	1/1	0.86	0.07	80,80,80,80	0
59	MG	DA	3585	1/1	0.86	0.15	78,78,78,78	0
59	MG	BB	203	1/1	0.86	0.28	59,59,59,59	0
59	MG	CA	1760	1/1	0.86	0.06	52,52,52,52	1
59	MG	BA	2949	1/1	0.86	0.25	102,102,102,102	0
59	MG	DA	3228	1/1	0.86	0.19	79,79,79,79	0
59	MG	BA	3504	1/1	0.86	0.18	59,59,59,59	0
59	MG	CA	1764	1/1	0.86	0.07	82,82,82,82	0
59	MG	DB	202	1/1	0.86	0.28	55,55,55,55	0
59	MG	AA	1885	1/1	0.86	0.27	57,57,57,57	0
59	MG	DA	3092	1/1	0.86	0.60	106,106,106,106	0
59	MG	AA	1615	1/1	0.86	0.33	67,67,67,67	0
59	MG	BA	3307	1/1	0.86	0.32	75,75,75,75	0
59	MG	DA	3442	1/1	0.86	0.29	71,71,71,71	0
59	MG	DD	303	1/1	0.86	0.20	64,64,64,64	0
59	MG	AA	1607	1/1	0.86	0.22	73,73,73,73	0
59	MG	DN	201	1/1	0.86	0.08	19,19,19,19	1
59	MG	DN	202	1/1	0.86	0.12	78,78,78,78	0
59	MG	DA	3621	1/1	0.86	0.24	76,76,76,76	1
59	MG	BA	3392	1/1	0.86	0.29	87,87,87,87	0
59	MG	BA	3528	1/1	0.86	0.18	73,73,73,73	0
59	MG	BA	3064	1/1	0.86	0.18	45,45,45,45	0
59	MG	CA	1690	1/1	0.87	0.28	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1707	1/1	0.87	0.21	97,97,97,97	0
59	MG	DA	3629	1/1	0.87	0.17	45,45,45,45	0
59	MG	BA	3207	1/1	0.87	0.19	43,43,43,43	0
59	MG	CA	1693	1/1	0.87	0.19	73,73,73,73	0
59	MG	DA	3263	1/1	0.87	0.34	125,125,125,125	0
59	MG	BA	3133	1/1	0.87	0.25	57,57,57,57	0
59	MG	CA	1696	1/1	0.87	0.20	79,79,79,79	0
59	MG	BA	3454	1/1	0.87	0.22	64,64,64,64	0
59	MG	DA	3460	1/1	0.87	0.12	73,73,73,73	0
59	MG	BA	3086	1/1	0.87	0.11	123,123,123,123	0
59	MG	AA	1708	1/1	0.87	0.16	65,65,65,65	1
59	MG	BA	3565	1/1	0.87	0.33	79,79,79,79	0
59	MG	CS	101	1/1	0.87	0.07	97,97,97,97	1
59	MG	BA	3089	1/1	0.87	0.21	33,33,33,33	0
59	MG	AA	1683	1/1	0.87	0.19	47,47,47,47	1
59	MG	DA	3653	1/1	0.87	0.09	82,82,82,82	0
59	MG	DA	3654	1/1	0.87	0.13	78,78,78,78	0
59	MG	BA	3093	1/1	0.87	0.11	52,52,52,52	0
59	MG	DA	3295	1/1	0.87	0.29	99,99,99,99	0
59	MG	DA	3475	1/1	0.87	0.12	115,115,115,115	0
59	MG	CA	1625	1/1	0.87	0.10	62,62,62,62	0
59	MG	DA	3477	1/1	0.87	0.45	76,76,76,76	0
59	MG	DA	3300	1/1	0.87	0.07	67,67,67,67	0
59	MG	CV	108	1/1	0.87	0.29	101,101,101,101	0
59	MG	DA	3306	1/1	0.87	0.10	56,56,56,56	0
59	MG	DA	3669	1/1	0.87	0.24	39,39,39,39	0
59	MG	DA	3307	1/1	0.87	0.28	77,77,77,77	0
59	MG	BA	3366	1/1	0.87	0.22	71,71,71,71	0
59	MG	BA	3148	1/1	0.87	0.28	106,106,106,106	0
59	MG	DA	3314	1/1	0.87	0.19	71,71,71,71	0
59	MG	BA	3370	1/1	0.87	0.36	105,105,105,105	0
59	MG	DA	3317	1/1	0.87	0.19	62,62,62,62	0
59	MG	AA	1851	1/1	0.87	0.15	62,62,62,62	0
59	MG	DA	3685	1/1	0.87	0.09	69,69,69,69	0
59	MG	AA	1685	1/1	0.87	0.32	30,30,30,30	1
59	MG	D0	103	1/1	0.87	0.13	74,74,74,74	0
59	MG	DA	3502	1/1	0.87	0.33	74,74,74,74	0
59	MG	AA	1699	1/1	0.87	0.16	71,71,71,71	0
59	MG	AA	1734	1/1	0.87	0.12	9,9,9,9	1
59	MG	BA	3309	1/1	0.87	0.11	58,58,58,58	0
59	MG	BA	3311	1/1	0.87	0.12	80,80,80,80	0
59	MG	AX	103	1/1	0.87	0.42	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1638	1/1	0.87	0.29	119,119,119,119	0
59	MG	BA	3170	1/1	0.87	0.15	56,56,56,56	0
59	MG	DA	3341	1/1	0.87	0.23	62,62,62,62	0
59	MG	D8	101	1/1	0.87	0.07	74,74,74,74	0
59	MG	DA	3004	1/1	0.87	0.56	122,122,122,122	0
59	MG	CA	1731	1/1	0.87	0.08	76,76,76,76	0
59	MG	BA	3317	1/1	0.87	0.40	64,64,64,64	1
59	MG	DA	3521	1/1	0.87	0.28	99,99,99,99	0
59	MG	DA	2902	1/1	0.87	0.26	42,42,42,42	0
59	MG	BA	3595	1/1	0.87	0.35	65,65,65,65	0
59	MG	DA	3351	1/1	0.87	0.09	77,77,77,77	0
59	MG	DA	3724	1/1	0.87	0.25	73,73,73,73	0
59	MG	DA	3530	1/1	0.87	0.38	122,122,122,122	0
59	MG	AA	1674	1/1	0.87	0.08	48,48,48,48	0
59	MG	DA	3353	1/1	0.87	0.17	84,84,84,84	0
59	MG	DA	3022	1/1	0.87	0.13	71,71,71,71	0
59	MG	BA	3050	1/1	0.87	0.17	73,73,73,73	0
59	MG	AI	201	1/1	0.87	0.12	163,163,163,163	0
59	MG	DA	3167	1/1	0.87	0.14	40,40,40,40	0
59	MG	DA	3026	1/1	0.87	0.26	60,60,60,60	0
59	MG	BA	3600	1/1	0.87	0.23	63,63,63,63	0
59	MG	DA	3171	1/1	0.87	0.13	71,71,71,71	0
59	MG	BA	3011	1/1	0.87	0.43	107,107,107,107	0
59	MG	BA	3603	1/1	0.87	0.23	74,74,74,74	0
59	MG	BA	3013	1/1	0.87	0.27	60,60,60,60	0
59	MG	DA	3758	1/1	0.87	0.41	95,95,95,95	0
59	MG	BA	3014	1/1	0.87	0.12	79,79,79,79	0
59	MG	BA	3607	1/1	0.87	0.43	95,95,95,95	0
59	MG	BA	3251	1/1	0.87	0.36	100,100,100,100	0
59	MG	BA	3519	1/1	0.87	0.30	88,88,88,88	0
59	MG	AA	1863	1/1	0.87	0.26	80,80,80,80	0
59	MG	BA	3524	1/1	0.87	0.24	103,103,103,103	0
59	MG	DA	3778	1/1	0.87	0.16	115,115,115,115	0
59	MG	BA	3065	1/1	0.87	0.18	50,50,50,50	0
59	MG	BA	3256	1/1	0.87	0.51	122,122,122,122	0
59	MG	B7	101	1/1	0.87	0.42	93,93,93,93	0
59	MG	BA	3535	1/1	0.87	0.14	81,81,81,81	0
59	MG	DA	3072	1/1	0.87	0.15	81,81,81,81	0
59	MG	DA	3212	1/1	0.87	0.28	105,105,105,105	0
59	MG	BA	2985	1/1	0.87	0.44	84,84,84,84	0
59	MG	DA	3219	1/1	0.87	0.23	62,62,62,62	0
59	MG	BA	3263	1/1	0.87	0.30	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1962	1/1	0.87	0.29	65,65,65,65	0
59	MG	BA	3424	1/1	0.87	0.19	64,64,64,64	0
59	MG	DA	3078	1/1	0.87	0.23	73,73,73,73	0
59	MG	BA	3429	1/1	0.87	0.30	67,67,67,67	0
59	MG	BA	3267	1/1	0.87	0.25	94,94,94,94	0
59	MG	DA	3423	1/1	0.87	0.11	51,51,51,51	1
59	MG	BA	3431	1/1	0.87	0.30	79,79,79,79	0
59	MG	BA	2905	1/1	0.87	0.19	52,52,52,52	0
59	MG	DA	3614	1/1	0.87	0.22	100,100,100,100	0
59	MG	AA	1749	1/1	0.87	0.08	74,74,74,74	1
59	MG	AA	1609	1/1	0.87	0.20	59,59,59,59	0
59	MG	CA	1775	1/1	0.87	0.11	70,70,70,70	1
59	MG	CA	1776	1/1	0.87	0.20	83,83,83,83	0
59	MG	DA	2948	1/1	0.87	0.26	75,75,75,75	0
59	MG	BA	3142	1/1	0.88	0.10	67,67,67,67	0
59	MG	DA	3325	1/1	0.88	0.37	109,109,109,109	0
59	MG	BA	3143	1/1	0.88	0.62	149,149,149,149	0
59	MG	DA	3157	1/1	0.88	0.09	52,52,52,52	0
59	MG	BA	3507	1/1	0.88	0.18	55,55,55,55	0
59	MG	DA	3335	1/1	0.88	0.14	48,48,48,48	0
59	MG	BA	3509	1/1	0.88	0.33	58,58,58,58	0
59	MG	DA	3027	1/1	0.88	0.30	69,69,69,69	0
59	MG	AA	1752	1/1	0.88	0.08	51,51,51,51	1
59	MG	AA	1633	1/1	0.88	0.40	72,72,72,72	1
59	MG	AA	1684	1/1	0.88	0.08	87,87,87,87	0
59	MG	AA	1866	1/1	0.88	0.09	74,74,74,74	0
59	MG	BA	3025	1/1	0.88	0.12	83,83,83,83	0
59	MG	AA	1779	1/1	0.88	0.14	114,114,114,114	0
59	MG	BA	2930	1/1	0.88	0.08	85,85,85,85	0
59	MG	B5	101	1/1	0.88	0.24	83,83,83,83	0
59	MG	BA	3160	1/1	0.88	0.17	49,49,49,49	0
59	MG	DA	3507	1/1	0.88	0.11	5,5,5,5	1
59	MG	DA	2933	1/1	0.88	0.23	51,51,51,51	0
59	MG	BA	3533	1/1	0.88	0.31	83,83,83,83	0
59	MG	AA	1940	1/1	0.88	0.13	86,86,86,86	0
59	MG	DA	3192	1/1	0.88	0.39	70,70,70,70	0
59	MG	BA	2943	1/1	0.88	0.22	92,92,92,92	1
59	MG	BA	3171	1/1	0.88	0.15	29,29,29,29	0
59	MG	AL	206	1/1	0.88	0.13	53,53,53,53	1
59	MG	DA	3365	1/1	0.88	0.13	92,92,92,92	0
59	MG	BU	201	1/1	0.88	0.21	46,46,46,46	0
59	MG	BA	3101	1/1	0.88	0.28	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	2901	1/1	0.88	0.15	113,113,113,113	0
59	MG	DA	2943	1/1	0.88	0.07	71,71,71,71	1
59	MG	DA	3525	1/1	0.88	0.41	63,63,63,63	0
59	MG	BA	3547	1/1	0.88	0.16	78,78,78,78	0
59	MG	BA	3180	1/1	0.88	0.23	42,42,42,42	0
59	MG	CA	1607	1/1	0.88	0.13	94,94,94,94	0
59	MG	AA	1628	1/1	0.88	0.13	84,84,84,84	0
59	MG	DA	3535	1/1	0.88	0.30	52,52,52,52	0
59	MG	BA	3434	1/1	0.88	0.27	68,68,68,68	0
59	MG	BA	2996	1/1	0.88	0.27	68,68,68,68	0
59	MG	DA	3093	1/1	0.88	0.39	67,67,67,67	0
59	MG	DA	3541	1/1	0.88	0.28	96,96,96,96	0
59	MG	BA	3187	1/1	0.88	0.30	37,37,37,37	0
59	MG	AA	1626	1/1	0.88	0.29	89,89,89,89	0
59	MG	DA	3395	1/1	0.88	0.26	83,83,83,83	0
59	MG	BA	3349	1/1	0.88	0.20	68,68,68,68	0
59	MG	DA	3236	1/1	0.88	0.26	63,63,63,63	0
59	MG	CA	1702	1/1	0.88	0.09	104,104,104,104	0
59	MG	BA	3448	1/1	0.88	0.34	40,40,40,40	0
59	MG	DA	3405	1/1	0.88	0.12	63,63,63,63	0
59	MG	DA	3735	1/1	0.88	0.17	90,90,90,90	0
59	MG	BA	3191	1/1	0.88	0.40	78,78,78,78	0
59	MG	BA	3110	1/1	0.88	0.13	55,55,55,55	0
59	MG	AA	1731	1/1	0.88	0.22	81,81,81,81	0
59	MG	BA	3047	1/1	0.88	0.33	89,89,89,89	0
59	MG	DA	3411	1/1	0.88	0.20	67,67,67,67	1
59	MG	DA	2965	1/1	0.88	0.28	52,52,52,52	0
59	MG	BA	2955	1/1	0.88	0.38	84,84,84,84	0
59	MG	BA	3359	1/1	0.88	0.48	101,101,101,101	0
59	MG	DA	3574	1/1	0.88	0.30	70,70,70,70	1
59	MG	DA	3755	1/1	0.88	0.34	128,128,128,128	0
59	MG	BA	2957	1/1	0.88	0.26	81,81,81,81	0
59	MG	BA	3363	1/1	0.88	0.39	92,92,92,92	0
59	MG	BA	3573	1/1	0.88	0.27	75,75,75,75	0
59	MG	DA	3429	1/1	0.88	0.17	23,23,23,23	1
59	MG	BA	2958	1/1	0.88	0.16	46,46,46,46	0
59	MG	BA	3285	1/1	0.88	0.42	96,96,96,96	0
59	MG	DA	3435	1/1	0.88	0.17	47,47,47,47	0
59	MG	BA	2959	1/1	0.88	0.20	65,65,65,65	0
59	MG	DA	3777	1/1	0.88	0.15	70,70,70,70	0
59	MG	DA	3276	1/1	0.88	0.22	58,58,58,58	0
59	MG	AA	1732	1/1	0.88	0.09	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3368	1/1	0.88	0.12	62,62,62,62	0
59	MG	DA	3600	1/1	0.88	0.22	30,30,30,30	0
59	MG	CA	1638	1/1	0.88	0.25	61,61,61,61	0
59	MG	D7	101	1/1	0.88	0.34	89,89,89,89	0
59	MG	D7	102	1/1	0.88	0.21	75,75,75,75	0
59	MG	BA	3484	1/1	0.88	0.34	94,94,94,94	0
59	MG	BA	3063	1/1	0.88	0.16	59,59,59,59	0
59	MG	DA	3791	1/1	0.88	0.39	76,76,76,76	0
59	MG	AA	1852	1/1	0.88	0.24	56,56,56,56	0
59	MG	BA	3299	1/1	0.88	0.29	66,66,66,66	0
59	MG	BA	2965	1/1	0.88	0.25	84,84,84,84	0
59	MG	DA	3305	1/1	0.88	0.37	52,52,52,52	0
59	MG	AA	1812	1/1	0.88	0.52	70,70,70,70	0
59	MG	DA	3627	1/1	0.88	0.11	70,70,70,70	0
59	MG	AA	1721	1/1	0.88	0.06	111,111,111,111	0
59	MG	AA	1788	1/1	0.88	0.08	80,80,80,80	0
59	MG	DD	304	1/1	0.88	0.19	97,97,97,97	0
59	MG	DD	305	1/1	0.88	0.41	1,1,1,1	1
59	MG	DE	302	1/1	0.88	0.07	39,39,39,39	1
59	MG	BA	3499	1/1	0.88	0.15	43,43,43,43	0
59	MG	DA	3013	1/1	0.88	0.28	68,68,68,68	0
59	MG	DA	3014	1/1	0.88	0.23	108,108,108,108	0
59	MG	BA	2972	1/1	0.88	0.30	63,63,63,63	1
59	MG	BA	2920	1/1	0.88	0.13	42,42,42,42	0
59	MG	DA	3152	1/1	0.88	0.42	108,108,108,108	0
59	MG	DR	202	1/1	0.88	0.15	65,65,65,65	1
59	MG	AA	1815	1/1	0.88	0.15	76,76,76,76	0
59	MG	BA	3118	1/1	0.89	0.16	59,59,59,59	0
59	MG	AV	107	1/1	0.89	0.14	58,58,58,58	0
59	MG	DA	3302	1/1	0.89	0.27	57,57,57,57	0
59	MG	AA	1687	1/1	0.89	0.07	101,101,101,101	0
59	MG	BA	3406	1/1	0.89	0.22	52,52,52,52	0
59	MG	AC	301	1/1	0.89	0.18	173,173,173,173	0
59	MG	BA	3029	1/1	0.89	0.26	92,92,92,92	0
59	MG	AA	1700	1/1	0.89	0.17	90,90,90,90	0
59	MG	BA	3130	1/1	0.89	0.17	62,62,62,62	0
59	MG	DA	3312	1/1	0.89	0.22	48,48,48,48	0
59	MG	BA	3416	1/1	0.89	0.26	58,58,58,58	0
59	MG	BA	3417	1/1	0.89	0.13	68,68,68,68	0
59	MG	DA	3006	1/1	0.89	0.28	107,107,107,107	0
59	MG	DA	3657	1/1	0.89	0.14	59,59,59,59	0
59	MG	BA	3082	1/1	0.89	0.33	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	2997	1/1	0.89	0.20	82,82,82,82	0
59	MG	BA	3526	1/1	0.89	0.25	76,76,76,76	0
59	MG	DA	3486	1/1	0.89	0.25	38,38,38,38	0
59	MG	CA	1748	1/1	0.89	0.12	102,102,102,102	0
59	MG	AA	1689	1/1	0.89	0.14	82,82,82,82	1
59	MG	DA	3019	1/1	0.89	0.66	92,92,92,92	0
59	MG	DA	3494	1/1	0.89	0.28	41,41,41,41	0
59	MG	BA	3204	1/1	0.89	0.53	71,71,71,71	0
59	MG	DA	3670	1/1	0.89	0.42	88,88,88,88	0
59	MG	CA	1664	1/1	0.89	0.10	91,91,91,91	0
59	MG	DA	3156	1/1	0.89	0.31	73,73,73,73	0
59	MG	BA	3034	1/1	0.89	0.12	51,51,51,51	0
59	MG	AA	1818	1/1	0.89	0.09	60,60,60,60	0
59	MG	BA	3281	1/1	0.89	0.70	94,94,94,94	0
59	MG	AA	1957	1/1	0.89	0.26	75,75,75,75	0
59	MG	BA	3437	1/1	0.89	0.14	60,60,60,60	0
59	MG	AA	1855	1/1	0.89	0.12	69,69,69,69	0
59	MG	CA	1761	1/1	0.89	0.10	87,87,87,87	0
59	MG	DA	3511	1/1	0.89	0.30	83,83,83,83	0
59	MG	CA	1676	1/1	0.89	0.06	88,88,88,88	0
59	MG	DA	3037	1/1	0.89	0.33	58,58,58,58	0
59	MG	DA	3040	1/1	0.89	0.35	81,81,81,81	0
59	MG	BA	3541	1/1	0.89	0.51	82,82,82,82	0
59	MG	AA	1764	1/1	0.89	0.26	65,65,65,65	0
59	MG	BA	3212	1/1	0.89	0.31	52,52,52,52	0
59	MG	DA	3052	1/1	0.89	0.30	68,68,68,68	0
59	MG	DA	3708	1/1	0.89	0.34	100,100,100,100	0
59	MG	AA	1753	1/1	0.89	0.11	110,110,110,110	0
59	MG	CA	1769	1/1	0.89	0.12	68,68,68,68	0
59	MG	DA	3064	1/1	0.89	0.16	51,51,51,51	0
59	MG	DA	3195	1/1	0.89	0.35	96,96,96,96	0
59	MG	AA	1744	1/1	0.89	0.14	80,80,80,80	0
59	MG	BA	2940	1/1	0.89	0.18	63,63,63,63	0
59	MG	BA	3007	1/1	0.89	0.15	93,93,93,93	0
59	MG	BA	2942	1/1	0.89	0.57	110,110,110,110	0
59	MG	DA	3207	1/1	0.89	0.20	84,84,84,84	0
59	MG	DA	3070	1/1	0.89	0.06	59,59,59,59	0
59	MG	DA	3536	1/1	0.89	0.10	37,37,37,37	1
59	MG	BA	3049	1/1	0.89	0.16	66,66,66,66	0
59	MG	BA	3457	1/1	0.89	0.23	72,72,72,72	0
59	MG	BA	3304	1/1	0.89	0.29	90,90,90,90	0
59	MG	DA	3733	1/1	0.89	0.11	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3383	1/1	0.89	0.18	135,135,135,135	0
59	MG	AA	1838	1/1	0.89	0.36	80,80,80,80	0
59	MG	DA	3387	1/1	0.89	0.12	77,77,77,77	0
59	MG	BA	3462	1/1	0.89	0.23	28,28,28,28	0
59	MG	BA	3375	1/1	0.89	0.47	74,74,74,74	0
59	MG	BA	3465	1/1	0.89	0.28	37,37,37,37	0
59	MG	DA	3222	1/1	0.89	0.17	79,79,79,79	0
59	MG	DA	3223	1/1	0.89	0.20	37,37,37,37	0
59	MG	BA	3378	1/1	0.89	0.22	79,79,79,79	0
59	MG	DA	3753	1/1	0.89	0.41	83,83,83,83	0
59	MG	DA	2947	1/1	0.89	0.14	86,86,86,86	0
59	MG	AA	1618	1/1	0.89	0.24	78,78,78,78	0
59	MG	BA	2947	1/1	0.89	0.27	45,45,45,45	0
59	MG	BA	3568	1/1	0.89	0.18	58,58,58,58	0
59	MG	BA	3168	1/1	0.89	0.24	24,24,24,24	0
59	MG	CM	203	1/1	0.89	0.07	123,123,123,123	0
59	MG	CQ	201	1/1	0.89	0.08	98,98,98,98	1
59	MG	AA	1929	1/1	0.89	0.20	69,69,69,69	0
59	MG	CS	102	1/1	0.89	0.09	102,102,102,102	0
59	MG	DA	3100	1/1	0.89	0.21	67,67,67,67	0
59	MG	DA	3776	1/1	0.89	0.13	58,58,58,58	0
59	MG	CA	1707	1/1	0.89	0.13	79,79,79,79	0
59	MG	BA	3060	1/1	0.89	0.32	98,98,98,98	0
59	MG	DA	3582	1/1	0.89	0.49	47,47,47,47	1
59	MG	DA	3420	1/1	0.89	0.13	100,100,100,100	0
59	MG	AV	101	1/1	0.89	0.23	52,52,52,52	1
59	MG	BA	3062	1/1	0.89	0.14	61,61,61,61	0
59	MG	DA	3108	1/1	0.89	0.18	81,81,81,81	0
59	MG	AA	1668	1/1	0.89	0.16	78,78,78,78	0
59	MG	BA	3388	1/1	0.89	0.62	100,100,100,100	0
59	MG	DA	3592	1/1	0.89	0.32	58,58,58,58	0
59	MG	DA	3789	1/1	0.89	0.27	68,68,68,68	0
59	MG	BA	3492	1/1	0.89	0.12	31,31,31,31	1
59	MG	DA	3270	1/1	0.89	0.24	55,55,55,55	0
59	MG	BA	3582	1/1	0.89	0.24	63,63,63,63	0
59	MG	DA	2974	1/1	0.89	0.33	47,47,47,47	1
59	MG	DA	3605	1/1	0.89	0.22	63,63,63,63	0
59	MG	DA	3274	1/1	0.89	0.16	73,73,73,73	0
59	MG	DB	208	1/1	0.89	0.10	86,86,86,86	0
59	MG	DA	3440	1/1	0.89	0.07	50,50,50,50	1
59	MG	BA	3176	1/1	0.89	0.14	50,50,50,50	0
59	MG	DA	3283	1/1	0.89	0.16	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	D0	101	1/1	0.89	0.13	16,16,16,16	1
59	MG	BA	3178	1/1	0.89	0.26	79,79,79,79	0
59	MG	DE	301	1/1	0.89	0.06	67,67,67,67	0
59	MG	AA	1643	1/1	0.89	0.14	92,92,92,92	0
59	MG	DA	3620	1/1	0.89	0.11	70,70,70,70	0
59	MG	DA	3451	1/1	0.89	0.23	80,80,80,80	1
59	MG	AA	1641	1/1	0.89	0.15	68,68,68,68	1
59	MG	DA	3454	1/1	0.89	0.17	35,35,35,35	0
59	MG	BA	3253	1/1	0.89	0.22	52,52,52,52	1
59	MG	DP	205	1/1	0.89	0.25	63,63,63,63	0
59	MG	D2	101	1/1	0.89	0.14	62,62,62,62	0
59	MG	BA	3069	1/1	0.89	0.41	100,100,100,100	0
59	MG	DA	3296	1/1	0.89	0.23	46,46,46,46	1
59	MG	CA	1767	1/1	0.90	0.20	73,73,73,73	0
59	MG	BA	3226	1/1	0.90	0.24	78,78,78,78	0
59	MG	DA	3652	1/1	0.90	0.14	74,74,74,74	0
59	MG	BA	3373	1/1	0.90	0.21	56,56,56,56	0
59	MG	DA	3488	1/1	0.90	0.10	28,28,28,28	0
59	MG	DA	3656	1/1	0.90	0.19	75,75,75,75	0
59	MG	DA	3175	1/1	0.90	0.11	28,28,28,28	0
59	MG	DA	3177	1/1	0.90	0.10	71,71,71,71	0
59	MG	BA	3374	1/1	0.90	0.26	74,74,74,74	0
59	MG	DA	3180	1/1	0.90	0.17	115,115,115,115	0
59	MG	DA	3184	1/1	0.90	0.13	63,63,63,63	0
59	MG	BA	3552	1/1	0.90	0.14	54,54,54,54	1
59	MG	BA	2933	1/1	0.90	0.11	36,36,36,36	0
59	MG	AA	1923	1/1	0.90	0.34	55,55,55,55	0
59	MG	AA	1719	1/1	0.90	0.42	76,76,76,76	1
59	MG	BA	3236	1/1	0.90	0.32	86,86,86,86	0
59	MG	AA	1811	1/1	0.90	0.19	49,49,49,49	0
59	MG	BA	3067	1/1	0.90	0.10	34,34,34,34	0
59	MG	DA	3672	1/1	0.90	0.25	74,74,74,74	0
59	MG	DA	3509	1/1	0.90	0.23	39,39,39,39	0
59	MG	DA	3354	1/1	0.90	0.17	52,52,52,52	0
59	MG	CA	1781	1/1	0.90	0.07	74,74,74,74	0
59	MG	DA	3200	1/1	0.90	0.23	62,62,62,62	0
59	MG	DA	3202	1/1	0.90	0.13	70,70,70,70	0
59	MG	BA	3177	1/1	0.90	0.27	45,45,45,45	0
59	MG	DA	3361	1/1	0.90	0.20	42,42,42,42	0
59	MG	AA	1796	1/1	0.90	0.11	61,61,61,61	0
59	MG	BA	3562	1/1	0.90	0.29	71,71,71,71	0
59	MG	CD	302	1/1	0.90	0.07	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3473	1/1	0.90	0.54	87,87,87,87	0
59	MG	AA	1783	1/1	0.90	0.36	73,73,73,73	0
59	MG	AI	202	1/1	0.90	0.08	117,117,117,117	0
59	MG	DA	3694	1/1	0.90	0.26	107,107,107,107	0
59	MG	DA	3080	1/1	0.90	0.08	56,56,56,56	0
59	MG	BA	3121	1/1	0.90	0.51	125,125,125,125	0
59	MG	BA	3324	1/1	0.90	0.20	63,63,63,63	0
59	MG	DA	3707	1/1	0.90	0.16	55,55,55,55	1
59	MG	DA	3379	1/1	0.90	0.14	72,72,72,72	0
59	MG	AL	201	1/1	0.90	0.11	87,87,87,87	0
59	MG	BA	3393	1/1	0.90	0.24	104,104,104,104	0
59	MG	CA	1710	1/1	0.90	0.15	51,51,51,51	0
59	MG	BA	3486	1/1	0.90	0.12	54,54,54,54	0
59	MG	BA	3188	1/1	0.90	0.10	58,58,58,58	0
59	MG	CV	105	1/1	0.90	0.10	82,82,82,82	0
59	MG	BA	3189	1/1	0.90	0.22	62,62,62,62	0
59	MG	DA	2966	1/1	0.90	0.87	51,51,51,51	1
59	MG	DA	3542	1/1	0.90	0.10	74,74,74,74	0
59	MG	AA	1875	1/1	0.90	0.19	62,62,62,62	0
59	MG	CA	1718	1/1	0.90	0.16	87,87,87,87	0
59	MG	BA	2991	1/1	0.90	0.13	60,60,60,60	1
59	MG	CA	1634	1/1	0.90	0.07	97,97,97,97	0
59	MG	AL	204	1/1	0.90	0.11	90,90,90,90	0
59	MG	DA	3732	1/1	0.90	0.21	67,67,67,67	0
59	MG	DA	3245	1/1	0.90	0.17	78,78,78,78	0
59	MG	CA	1722	1/1	0.90	0.11	73,73,73,73	0
59	MG	BA	3496	1/1	0.90	0.17	44,44,44,44	0
59	MG	DA	3558	1/1	0.90	0.21	88,88,88,88	0
59	MG	AA	1651	1/1	0.90	0.09	76,76,76,76	0
59	MG	DA	3743	1/1	0.90	0.23	50,50,50,50	1
59	MG	BA	3260	1/1	0.90	0.18	77,77,77,77	0
59	MG	AA	1701	1/1	0.90	0.24	77,77,77,77	0
59	MG	DA	3414	1/1	0.90	0.42	121,121,121,121	0
59	MG	DA	3415	1/1	0.90	0.29	41,41,41,41	0
59	MG	BA	2953	1/1	0.90	0.49	84,84,84,84	0
59	MG	BA	2910	1/1	0.90	0.26	83,83,83,83	1
59	MG	CA	1643	1/1	0.90	0.14	80,80,80,80	0
59	MG	BA	3412	1/1	0.90	0.20	95,95,95,95	0
59	MG	AA	1675	1/1	0.90	0.13	52,52,52,52	1
59	MG	BA	3091	1/1	0.90	0.26	62,62,62,62	0
59	MG	DA	3760	1/1	0.90	0.14	52,52,52,52	0
59	MG	BA	2999	1/1	0.90	0.18	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	2999	1/1	0.90	0.14	91,91,91,91	0
59	MG	AA	1661	1/1	0.90	0.14	34,34,34,34	1
59	MG	DA	3277	1/1	0.90	0.12	42,42,42,42	0
59	MG	DA	3279	1/1	0.90	0.26	70,70,70,70	0
59	MG	DA	3282	1/1	0.90	0.13	31,31,31,31	0
59	MG	BA	3275	1/1	0.90	0.07	38,38,38,38	0
59	MG	CA	1652	1/1	0.90	0.33	78,78,78,78	0
59	MG	BA	3599	1/1	0.90	0.11	83,83,83,83	0
59	MG	DA	3441	1/1	0.90	0.24	55,55,55,55	0
59	MG	AA	1695	1/1	0.90	0.07	65,65,65,65	0
59	MG	BA	3352	1/1	0.90	0.12	72,72,72,72	0
59	MG	DA	3007	1/1	0.90	0.15	57,57,57,57	0
59	MG	AA	1963	1/1	0.90	0.31	74,74,74,74	0
59	MG	DA	3785	1/1	0.90	0.56	35,35,35,35	1
59	MG	DA	3294	1/1	0.90	0.07	80,80,80,80	1
59	MG	BA	3426	1/1	0.90	0.30	77,77,77,77	0
59	MG	DA	3612	1/1	0.90	0.13	77,77,77,77	0
59	MG	CA	1749	1/1	0.90	0.24	16,16,16,16	1
59	MG	DA	3790	1/1	0.90	0.45	29,29,29,29	1
59	MG	BA	3523	1/1	0.90	0.32	122,122,122,122	0
59	MG	DA	3792	1/1	0.90	0.19	77,77,77,77	0
59	MG	BA	3147	1/1	0.90	0.20	72,72,72,72	0
59	MG	DA	3796	1/1	0.90	0.39	95,95,95,95	1
59	MG	DB	201	1/1	0.90	0.14	59,59,59,59	0
59	MG	DA	2910	1/1	0.90	0.21	68,68,68,68	0
59	MG	AA	1911	1/1	0.90	0.08	55,55,55,55	0
59	MG	AA	1778	1/1	0.90	0.17	84,84,84,84	0
59	MG	BA	3433	1/1	0.90	0.11	61,61,61,61	0
59	MG	BA	2966	1/1	0.90	0.26	64,64,64,64	0
59	MG	BA	3435	1/1	0.90	0.44	70,70,70,70	0
59	MG	AA	1602	1/1	0.90	0.11	71,71,71,71	0
59	MG	AA	1650	1/1	0.90	0.15	73,73,73,73	0
59	MG	BA	3103	1/1	0.90	0.19	69,69,69,69	0
59	MG	DA	3631	1/1	0.90	0.24	41,41,41,41	0
59	MG	AA	1890	1/1	0.90	0.16	78,78,78,78	0
59	MG	DA	3473	1/1	0.90	0.30	38,38,38,38	0
59	MG	AA	1867	1/1	0.90	0.10	65,65,65,65	0
59	MG	DA	3636	1/1	0.90	0.08	50,50,50,50	0
59	MG	DA	3161	1/1	0.90	0.34	61,61,61,61	0
59	MG	AA	1845	1/1	0.90	0.24	53,53,53,53	0
59	MG	BR	201	1/1	0.90	0.21	47,47,47,47	1
59	MG	DA	3166	1/1	0.90	0.12	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1680	1/1	0.90	0.16	75,75,75,75	0
59	MG	DA	3043	1/1	0.90	0.17	80,80,80,80	0
59	MG	DW	201	1/1	0.90	0.08	36,36,36,36	1
59	MG	DA	3046	1/1	0.90	0.28	95,95,95,95	0
59	MG	DA	2977	1/1	0.91	0.27	60,60,60,60	0
59	MG	DA	3230	1/1	0.91	0.28	94,94,94,94	0
59	MG	DA	2980	1/1	0.91	0.20	69,69,69,69	0
59	MG	DA	3233	1/1	0.91	0.23	152,152,152,152	0
59	MG	BA	3608	1/1	0.91	0.22	31,31,31,31	0
59	MG	DA	3380	1/1	0.91	0.21	43,43,43,43	0
59	MG	BB	202	1/1	0.91	0.36	62,62,62,62	0
59	MG	BA	3452	1/1	0.91	0.35	45,45,45,45	0
59	MG	BA	3135	1/1	0.91	0.21	86,86,86,86	0
59	MG	BA	3055	1/1	0.91	0.50	92,92,92,92	0
59	MG	BD	305	1/1	0.91	0.29	168,168,168,168	0
59	MG	BA	3249	1/1	0.91	0.25	79,79,79,79	0
59	MG	BA	3543	1/1	0.91	0.20	71,71,71,71	0
59	MG	DA	3121	1/1	0.91	0.16	69,69,69,69	0
59	MG	BA	3057	1/1	0.91	0.14	68,68,68,68	0
59	MG	CA	1751	1/1	0.91	0.12	69,69,69,69	1
59	MG	BA	2990	1/1	0.91	0.21	77,77,77,77	0
59	MG	BH	203	1/1	0.91	0.29	75,75,75,75	0
59	MG	DA	2903	1/1	0.91	0.11	43,43,43,43	0
59	MG	DA	2904	1/1	0.91	0.51	66,66,66,66	0
59	MG	DA	3703	1/1	0.91	0.12	41,41,41,41	0
59	MG	BA	3546	1/1	0.91	0.35	83,83,83,83	0
59	MG	DA	3268	1/1	0.91	0.11	35,35,35,35	0
59	MG	AA	1608	1/1	0.91	0.17	58,58,58,58	0
59	MG	AA	1692	1/1	0.91	0.08	89,89,89,89	0
59	MG	BA	2938	1/1	0.91	0.08	64,64,64,64	1
59	MG	AA	1658	1/1	0.91	0.12	106,106,106,106	0
59	MG	DA	3713	1/1	0.91	0.10	67,67,67,67	0
59	MG	DA	3008	1/1	0.91	0.10	70,70,70,70	0
59	MG	AA	1806	1/1	0.91	0.12	81,81,81,81	0
59	MG	BA	3028	1/1	0.91	0.14	58,58,58,58	0
59	MG	DA	3278	1/1	0.91	0.14	57,57,57,57	0
59	MG	AA	1926	1/1	0.91	0.12	59,59,59,59	0
59	MG	DA	2914	1/1	0.91	0.18	83,83,83,83	0
59	MG	BA	3107	1/1	0.91	0.45	87,87,87,87	0
59	MG	AA	1620	1/1	0.91	0.23	71,71,71,71	0
59	MG	DA	3425	1/1	0.91	0.15	56,56,56,56	0
59	MG	DA	3428	1/1	0.91	0.19	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3287	1/1	0.91	0.12	66,66,66,66	0
59	MG	DA	2918	1/1	0.91	0.23	91,91,91,91	0
59	MG	DA	3576	1/1	0.91	0.41	87,87,87,87	0
59	MG	DA	2919	1/1	0.91	0.18	57,57,57,57	0
59	MG	BA	2944	1/1	0.91	0.15	43,43,43,43	0
59	MG	DA	3580	1/1	0.91	0.11	34,34,34,34	0
59	MG	AL	202	1/1	0.91	0.10	73,73,73,73	0
59	MG	AA	1660	1/1	0.91	0.12	82,82,82,82	0
59	MG	CA	1768	1/1	0.91	0.07	71,71,71,71	0
59	MG	BA	3162	1/1	0.91	0.19	41,41,41,41	0
59	MG	AA	1859	1/1	0.91	0.09	44,44,44,44	0
59	MG	DA	3034	1/1	0.91	0.22	98,98,98,98	0
59	MG	BA	3344	1/1	0.91	0.24	45,45,45,45	0
59	MG	AA	1759	1/1	0.91	0.18	51,51,51,51	0
59	MG	BA	3077	1/1	0.91	0.24	71,71,71,71	0
59	MG	DA	3593	1/1	0.91	0.08	61,61,61,61	0
59	MG	BA	3348	1/1	0.91	0.25	61,61,61,61	0
59	MG	B0	102	1/1	0.91	0.10	91,91,91,91	0
59	MG	BA	3282	1/1	0.91	0.21	47,47,47,47	0
59	MG	DA	3601	1/1	0.91	0.07	39,39,39,39	0
59	MG	BA	3283	1/1	0.91	0.15	58,58,58,58	0
59	MG	DA	3764	1/1	0.91	0.29	75,75,75,75	0
59	MG	DA	3765	1/1	0.91	0.29	69,69,69,69	0
59	MG	BA	2979	1/1	0.91	0.18	66,66,66,66	0
59	MG	BA	3420	1/1	0.91	0.31	71,71,71,71	0
59	MG	DA	3169	1/1	0.91	0.46	67,67,67,67	0
59	MG	CA	1783	1/1	0.91	0.08	83,83,83,83	0
59	MG	DA	3775	1/1	0.91	0.31	86,86,86,86	0
59	MG	DA	3613	1/1	0.91	0.07	56,56,56,56	1
59	MG	AA	1847	1/1	0.91	0.07	76,76,76,76	0
59	MG	BA	3224	1/1	0.91	0.28	79,79,79,79	0
59	MG	DA	3463	1/1	0.91	0.22	83,83,83,83	0
59	MG	AA	1603	1/1	0.91	0.29	74,74,74,74	0
59	MG	DA	3174	1/1	0.91	0.23	93,93,93,93	0
59	MG	DA	3782	1/1	0.91	0.22	51,51,51,51	0
59	MG	BA	3085	1/1	0.91	0.53	68,68,68,68	0
59	MG	CA	1709	1/1	0.91	0.11	85,85,85,85	1
59	MG	BA	3360	1/1	0.91	0.20	80,80,80,80	0
59	MG	BA	2983	1/1	0.91	0.14	63,63,63,63	0
59	MG	BA	3586	1/1	0.91	0.22	86,86,86,86	0
59	MG	DA	3334	1/1	0.91	0.11	56,56,56,56	0
59	MG	BA	3587	1/1	0.91	0.25	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3508	1/1	0.91	0.16	39,39,39,39	0
59	MG	BA	3230	1/1	0.91	0.19	85,85,85,85	0
59	MG	BA	3231	1/1	0.91	0.18	28,28,28,28	0
59	MG	BA	3432	1/1	0.91	0.27	59,59,59,59	0
59	MG	DA	3635	1/1	0.91	0.21	31,31,31,31	0
59	MG	DA	3797	1/1	0.91	0.17	56,56,56,56	0
59	MG	CV	103	1/1	0.91	0.08	67,67,67,67	0
59	MG	BA	3124	1/1	0.91	0.25	62,62,62,62	0
59	MG	CA	1640	1/1	0.91	0.10	76,76,76,76	0
59	MG	BA	3518	1/1	0.91	0.36	64,64,64,64	0
59	MG	DA	3201	1/1	0.91	0.07	62,62,62,62	0
59	MG	DA	3348	1/1	0.91	0.19	43,43,43,43	0
59	MG	BA	3179	1/1	0.91	0.12	66,66,66,66	0
59	MG	DA	3350	1/1	0.91	0.28	34,34,34,34	0
59	MG	DA	3083	1/1	0.91	0.22	104,104,104,104	0
59	MG	DA	3084	1/1	0.91	0.19	57,57,57,57	0
59	MG	DA	3085	1/1	0.91	0.08	68,68,68,68	0
59	MG	AA	1901	1/1	0.91	0.32	65,65,65,65	0
59	MG	DA	3087	1/1	0.91	0.17	33,33,33,33	0
59	MG	AA	1849	1/1	0.91	0.11	80,80,80,80	0
59	MG	DF	303	1/1	0.91	0.10	22,22,22,22	1
59	MG	BA	3369	1/1	0.91	0.15	65,65,65,65	0
59	MG	BA	3129	1/1	0.91	0.33	42,42,42,42	0
59	MG	BA	3240	1/1	0.91	0.27	55,55,55,55	0
59	MG	AA	1823	1/1	0.91	0.19	68,68,68,68	0
59	MG	BA	3447	1/1	0.91	0.13	90,90,90,90	0
59	MG	CA	1651	1/1	0.91	0.09	84,84,84,84	0
59	MG	DR	201	1/1	0.91	0.10	108,108,108,108	0
59	MG	DA	3368	1/1	0.91	0.45	104,104,104,104	0
59	MG	BA	2902	1/1	0.91	0.10	79,79,79,79	0
59	MG	BA	2988	1/1	0.91	0.12	35,35,35,35	0
59	MG	BA	3201	1/1	0.92	0.09	50,50,50,50	0
59	MG	AA	1914	1/1	0.92	0.10	56,56,56,56	0
59	MG	DA	3480	1/1	0.92	0.21	87,87,87,87	0
59	MG	DA	3323	1/1	0.92	0.29	58,58,58,58	0
59	MG	BA	2921	1/1	0.92	0.07	51,51,51,51	0
59	MG	AA	1671	1/1	0.92	0.51	107,107,107,107	0
59	MG	AA	1639	1/1	0.92	0.28	79,79,79,79	0
59	MG	DA	3039	1/1	0.92	0.32	88,88,88,88	0
59	MG	BA	3514	1/1	0.92	0.18	76,76,76,76	0
59	MG	BA	3269	1/1	0.92	0.10	63,63,63,63	0
59	MG	AA	1877	1/1	0.92	0.20	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3663	1/1	0.92	0.23	55,55,55,55	0
59	MG	DA	3493	1/1	0.92	0.10	90,90,90,90	0
59	MG	BA	3208	1/1	0.92	0.18	27,27,27,27	0
59	MG	BA	3209	1/1	0.92	0.16	61,61,61,61	0
59	MG	DA	3176	1/1	0.92	0.25	37,37,37,37	0
59	MG	DA	3048	1/1	0.92	0.37	63,63,63,63	0
59	MG	DA	3342	1/1	0.92	0.15	58,58,58,58	0
59	MG	BA	3609	1/1	0.92	0.17	56,56,56,56	0
59	MG	DA	3050	1/1	0.92	0.29	40,40,40,40	0
59	MG	AA	1784	1/1	0.92	0.12	92,92,92,92	0
59	MG	AA	1702	1/1	0.92	0.14	64,64,64,64	0
59	MG	BA	3527	1/1	0.92	0.37	86,86,86,86	0
59	MG	DA	3508	1/1	0.92	0.07	88,88,88,88	0
59	MG	BA	3277	1/1	0.92	0.22	44,44,44,44	0
59	MG	CA	1673	1/1	0.92	0.14	62,62,62,62	0
59	MG	BD	304	1/1	0.92	0.17	49,49,49,49	0
59	MG	BA	3021	1/1	0.92	0.25	78,78,78,78	0
59	MG	BA	3157	1/1	0.92	0.18	60,60,60,60	0
59	MG	B5	102	1/1	0.92	0.08	32,32,32,32	1
59	MG	DA	3198	1/1	0.92	0.23	31,31,31,31	0
59	MG	BA	3534	1/1	0.92	0.32	56,56,56,56	0
59	MG	BA	3026	1/1	0.92	0.23	105,105,105,105	0
59	MG	BA	3027	1/1	0.92	0.30	74,74,74,74	0
59	MG	CA	1683	1/1	0.92	0.24	60,60,60,60	0
59	MG	CA	1778	1/1	0.92	0.15	88,88,88,88	0
59	MG	DA	3362	1/1	0.92	0.20	39,39,39,39	0
59	MG	BA	3538	1/1	0.92	0.09	37,37,37,37	0
59	MG	BA	3439	1/1	0.92	0.18	37,37,37,37	0
59	MG	AA	1921	1/1	0.92	0.17	86,86,86,86	0
59	MG	DA	3527	1/1	0.92	0.08	46,46,46,46	0
59	MG	BA	3220	1/1	0.92	0.23	54,54,54,54	0
59	MG	BA	3542	1/1	0.92	0.21	102,102,102,102	0
59	MG	DA	3370	1/1	0.92	0.29	68,68,68,68	0
59	MG	BA	3221	1/1	0.92	0.22	42,42,42,42	0
59	MG	DA	3218	1/1	0.92	0.27	130,130,130,130	0
59	MG	DA	3537	1/1	0.92	0.38	56,56,56,56	0
59	MG	BA	2995	1/1	0.92	0.28	84,84,84,84	0
59	MG	AA	1882	1/1	0.92	0.15	57,57,57,57	0
59	MG	BA	3298	1/1	0.92	0.17	67,67,67,67	0
59	MG	BA	2968	1/1	0.92	0.32	72,72,72,72	0
59	MG	AA	1770	1/1	0.92	0.27	76,76,76,76	0
59	MG	CA	1604	1/1	0.92	0.07	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3546	1/1	0.92	0.69	11,11,11,11	1
59	MG	DA	3547	1/1	0.92	0.29	89,89,89,89	0
59	MG	DA	3227	1/1	0.92	0.24	73,73,73,73	0
59	MG	BA	3119	1/1	0.92	0.14	30,30,30,30	0
59	MG	CA	1606	1/1	0.92	0.08	60,60,60,60	0
59	MG	BA	3227	1/1	0.92	0.14	78,78,78,78	0
59	MG	DA	3232	1/1	0.92	0.24	59,59,59,59	0
59	MG	BA	3033	1/1	0.92	0.11	69,69,69,69	0
59	MG	CA	1704	1/1	0.92	0.08	71,71,71,71	0
59	MG	CV	102	1/1	0.92	0.15	92,92,92,92	0
59	MG	DA	3559	1/1	0.92	0.31	74,74,74,74	0
59	MG	DA	3397	1/1	0.92	0.24	72,72,72,72	0
59	MG	DA	3746	1/1	0.92	0.27	71,71,71,71	0
59	MG	DA	3747	1/1	0.92	0.22	38,38,38,38	1
59	MG	DA	2968	1/1	0.92	0.13	1,1,1,1	1
59	MG	DA	3749	1/1	0.92	0.32	80,80,80,80	1
59	MG	BA	3376	1/1	0.92	0.18	68,68,68,68	1
59	MG	DA	2970	1/1	0.92	0.17	41,41,41,41	1
59	MG	DA	3568	1/1	0.92	0.15	73,73,73,73	0
59	MG	AA	1826	1/1	0.92	0.15	83,83,83,83	0
59	MG	AA	1947	1/1	0.92	0.32	79,79,79,79	0
59	MG	DA	3242	1/1	0.92	0.21	31,31,31,31	0
59	MG	DA	3757	1/1	0.92	0.27	86,86,86,86	0
59	MG	DA	3244	1/1	0.92	0.16	29,29,29,29	0
59	MG	DA	3759	1/1	0.92	0.25	49,49,49,49	0
59	MG	CA	1613	1/1	0.92	0.12	73,73,73,73	0
59	MG	DA	3575	1/1	0.92	0.30	89,89,89,89	0
59	MG	AA	1837	1/1	0.92	0.12	75,75,75,75	0
59	MG	DA	3249	1/1	0.92	0.16	68,68,68,68	0
59	MG	CA	1616	1/1	0.92	0.09	62,62,62,62	0
59	MG	DA	2979	1/1	0.92	0.14	42,42,42,42	0
59	MG	DA	3114	1/1	0.92	0.31	55,55,55,55	0
59	MG	BA	3381	1/1	0.92	0.22	42,42,42,42	0
59	MG	CA	1715	1/1	0.92	0.06	80,80,80,80	0
59	MG	DA	3771	1/1	0.92	0.43	71,71,71,71	0
59	MG	DA	3119	1/1	0.92	0.16	66,66,66,66	0
59	MG	AA	1669	1/1	0.92	0.16	50,50,50,50	0
59	MG	AA	1694	1/1	0.92	0.12	56,56,56,56	1
59	MG	DA	3588	1/1	0.92	0.18	83,83,83,83	0
59	MG	BA	3181	1/1	0.92	0.20	42,42,42,42	0
59	MG	BA	3315	1/1	0.92	0.32	74,74,74,74	0
59	MG	DA	3126	1/1	0.92	0.14	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3475	1/1	0.92	0.16	59,59,59,59	0
59	MG	BA	3183	1/1	0.92	0.08	54,54,54,54	0
59	MG	DA	3596	1/1	0.92	0.12	54,54,54,54	1
59	MG	DA	3275	1/1	0.92	0.13	63,63,63,63	0
59	MG	DA	3598	1/1	0.92	0.28	83,83,83,83	0
59	MG	BA	3184	1/1	0.92	0.19	38,38,38,38	0
59	MG	BA	3042	1/1	0.92	0.54	103,103,103,103	0
59	MG	BA	3389	1/1	0.92	0.23	56,56,56,56	0
59	MG	D5	103	1/1	0.92	0.16	88,88,88,88	0
59	MG	DA	3280	1/1	0.92	0.12	58,58,58,58	0
59	MG	DA	2997	1/1	0.92	0.21	43,43,43,43	0
59	MG	DA	3609	1/1	0.92	0.30	63,63,63,63	0
59	MG	DA	3794	1/1	0.92	0.21	79,79,79,79	0
59	MG	DA	3611	1/1	0.92	0.37	31,31,31,31	0
59	MG	BA	3390	1/1	0.92	0.16	65,65,65,65	0
59	MG	BA	3243	1/1	0.92	0.26	25,25,25,25	0
59	MG	AA	1909	1/1	0.92	0.05	87,87,87,87	1
59	MG	BA	3323	1/1	0.92	0.22	36,36,36,36	0
59	MG	DA	3142	1/1	0.92	0.14	90,90,90,90	0
59	MG	BA	3488	1/1	0.92	0.38	66,66,66,66	1
59	MG	BA	3579	1/1	0.92	0.35	71,71,71,71	0
59	MG	BA	3088	1/1	0.92	0.39	62,62,62,62	0
59	MG	AA	1817	1/1	0.92	0.08	71,71,71,71	0
59	MG	BA	3397	1/1	0.92	0.16	75,75,75,75	0
59	MG	AD	302	1/1	0.92	0.08	96,96,96,96	0
59	MG	DA	3149	1/1	0.92	0.15	26,26,26,26	0
59	MG	BA	2980	1/1	0.92	0.14	47,47,47,47	0
59	MG	BA	3137	1/1	0.92	0.13	43,43,43,43	0
59	MG	DE	303	1/1	0.92	0.08	42,42,42,42	0
59	MG	CA	1742	1/1	0.92	0.15	81,81,81,81	0
59	MG	BA	2915	1/1	0.92	0.24	70,70,70,70	0
59	MG	BA	3404	1/1	0.92	0.19	34,34,34,34	0
59	MG	BA	3139	1/1	0.92	0.21	27,27,27,27	0
59	MG	AA	1766	1/1	0.92	0.18	74,74,74,74	0
59	MG	AA	1844	1/1	0.92	0.20	107,107,107,107	0
59	MG	DP	204	1/1	0.92	0.06	15,15,15,15	0
59	MG	DA	3472	1/1	0.92	0.44	79,79,79,79	1
59	MG	BA	2918	1/1	0.92	0.16	76,76,76,76	1
59	MG	BA	3337	1/1	0.92	0.19	37,37,37,37	0
59	MG	DA	2913	1/1	0.92	0.41	15,15,15,15	1
59	MG	BA	3053	1/1	0.92	0.42	62,62,62,62	0
59	MG	DA	3164	1/1	0.92	0.24	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	CC	303	1/1	0.93	0.15	113,113,113,113	0
59	MG	DA	3254	1/1	0.93	0.11	59,59,59,59	0
59	MG	DA	3533	1/1	0.93	0.23	100,100,100,100	0
59	MG	DA	3683	1/1	0.93	0.22	46,46,46,46	0
59	MG	CA	1633	1/1	0.93	0.08	70,70,70,70	0
59	MG	BA	2937	1/1	0.93	0.24	40,40,40,40	0
59	MG	DA	3262	1/1	0.93	0.20	59,59,59,59	1
59	MG	DA	3392	1/1	0.93	0.08	81,81,81,81	0
59	MG	DA	3393	1/1	0.93	0.09	6,6,6,6	1
59	MG	DA	3032	1/1	0.93	0.37	34,34,34,34	0
59	MG	DA	3265	1/1	0.93	0.46	82,82,82,82	0
59	MG	AA	1931	1/1	0.93	0.15	87,87,87,87	0
59	MG	AA	1682	1/1	0.93	0.43	104,104,104,104	0
59	MG	CM	201	1/1	0.93	0.06	131,131,131,131	0
59	MG	DA	3545	1/1	0.93	0.07	58,58,58,58	0
59	MG	DA	3698	1/1	0.93	0.06	25,25,25,25	0
59	MG	DA	3700	1/1	0.93	0.15	59,59,59,59	0
59	MG	BA	3108	1/1	0.93	0.27	56,56,56,56	0
59	MG	BA	3341	1/1	0.93	0.21	33,33,33,33	0
59	MG	BA	2909	1/1	0.93	0.16	50,50,50,50	0
59	MG	BA	3343	1/1	0.93	0.20	32,32,32,32	0
59	MG	AA	1934	1/1	0.93	0.10	68,68,68,68	0
59	MG	AA	1913	1/1	0.93	0.10	72,72,72,72	0
59	MG	BA	3464	1/1	0.93	0.21	43,43,43,43	0
59	MG	DA	3413	1/1	0.93	0.28	84,84,84,84	0
59	MG	BA	2912	1/1	0.93	0.24	57,57,57,57	0
59	MG	BA	3466	1/1	0.93	0.17	38,38,38,38	0
59	MG	BB	201	1/1	0.93	0.20	46,46,46,46	0
59	MG	BA	3468	1/1	0.93	0.16	36,36,36,36	0
59	MG	DA	3160	1/1	0.93	0.19	68,68,68,68	0
59	MG	DA	3053	1/1	0.93	0.13	33,33,33,33	0
59	MG	DA	3722	1/1	0.93	0.16	86,86,86,86	0
59	MG	DA	3056	1/1	0.93	0.21	65,65,65,65	0
59	MG	DA	3058	1/1	0.93	0.13	32,32,32,32	0
59	MG	DA	3725	1/1	0.93	0.11	71,71,71,71	0
59	MG	BA	3295	1/1	0.93	0.37	51,51,51,51	0
59	MG	DA	2955	1/1	0.93	0.19	34,34,34,34	1
59	MG	DA	3729	1/1	0.93	0.32	96,96,96,96	0
59	MG	DA	2956	1/1	0.93	0.09	38,38,38,38	0
59	MG	DA	3731	1/1	0.93	0.17	45,45,45,45	1
59	MG	BA	3075	1/1	0.93	0.28	87,87,87,87	0
59	MG	BB	205	1/1	0.93	0.07	69,69,69,69	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3036	1/1	0.93	0.25	98,98,98,98	0
59	MG	AA	1897	1/1	0.93	0.12	68,68,68,68	0
59	MG	AA	1773	1/1	0.93	0.06	50,50,50,50	0
59	MG	DA	3298	1/1	0.93	0.13	65,65,65,65	0
59	MG	DA	3299	1/1	0.93	0.26	75,75,75,75	0
59	MG	AA	1879	1/1	0.93	0.14	74,74,74,74	0
59	MG	DA	3301	1/1	0.93	0.06	32,32,32,32	0
59	MG	BA	3407	1/1	0.93	0.12	64,64,64,64	0
59	MG	DA	3303	1/1	0.93	0.12	54,54,54,54	0
59	MG	DA	3445	1/1	0.93	0.28	55,55,55,55	0
59	MG	BA	3408	1/1	0.93	0.29	73,73,73,73	0
59	MG	CA	1740	1/1	0.93	0.15	85,85,85,85	0
59	MG	BA	3355	1/1	0.93	0.17	26,26,26,26	0
59	MG	DA	3752	1/1	0.93	0.30	96,96,96,96	0
59	MG	AA	1606	1/1	0.93	0.13	77,77,77,77	0
59	MG	CA	1661	1/1	0.93	0.06	65,65,65,65	0
59	MG	DA	3309	1/1	0.93	0.36	76,76,76,76	0
59	MG	DA	3181	1/1	0.93	0.21	49,49,49,49	0
59	MG	BA	3164	1/1	0.93	0.31	44,44,44,44	0
59	MG	BA	3413	1/1	0.93	0.38	73,73,73,73	0
59	MG	DA	3187	1/1	0.93	0.26	44,44,44,44	0
59	MG	DA	3188	1/1	0.93	0.16	31,31,31,31	0
59	MG	AA	1816	1/1	0.93	0.21	64,64,64,64	0
59	MG	BP	204	1/1	0.93	0.09	24,24,24,24	1
59	MG	BA	3167	1/1	0.93	0.15	36,36,36,36	0
59	MG	BA	3310	1/1	0.93	0.13	68,68,68,68	0
59	MG	DA	3193	1/1	0.93	0.13	68,68,68,68	0
59	MG	BA	3362	1/1	0.93	0.23	43,43,43,43	0
59	MG	BA	3563	1/1	0.93	0.21	80,80,80,80	0
59	MG	DA	3088	1/1	0.93	0.09	65,65,65,65	0
59	MG	AA	1696	1/1	0.93	0.09	90,90,90,90	0
59	MG	DA	3331	1/1	0.93	0.11	45,45,45,45	1
59	MG	BA	3495	1/1	0.93	0.16	69,69,69,69	0
59	MG	BA	2952	1/1	0.93	0.27	96,96,96,96	0
59	MG	DA	2985	1/1	0.93	0.14	39,39,39,39	0
59	MG	BA	3012	1/1	0.93	0.27	34,34,34,34	0
59	MG	AA	1622	1/1	0.93	0.17	70,70,70,70	0
59	MG	BA	3125	1/1	0.93	0.15	70,70,70,70	0
59	MG	DA	3622	1/1	0.93	0.08	58,58,58,58	0
59	MG	DA	3099	1/1	0.93	0.19	67,67,67,67	0
59	MG	BA	2954	1/1	0.93	0.09	59,59,59,59	0
59	MG	BA	3571	1/1	0.93	0.28	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1853	1/1	0.93	0.19	74,74,74,74	0
59	MG	AL	205	1/1	0.93	0.09	47,47,47,47	1
59	MG	AA	1819	1/1	0.93	0.05	75,75,75,75	0
59	MG	DA	2998	1/1	0.93	0.22	49,49,49,49	0
59	MG	CA	1688	1/1	0.93	0.04	79,79,79,79	0
59	MG	DA	3492	1/1	0.93	0.38	62,62,62,62	0
59	MG	BA	3577	1/1	0.93	0.21	38,38,38,38	0
59	MG	BA	3219	1/1	0.93	0.36	57,57,57,57	0
59	MG	BA	2989	1/1	0.93	0.26	82,82,82,82	0
59	MG	DA	3496	1/1	0.93	0.17	83,83,83,83	0
59	MG	DA	3003	1/1	0.93	0.14	36,36,36,36	0
59	MG	DA	3225	1/1	0.93	0.18	32,32,32,32	0
59	MG	DA	3226	1/1	0.93	0.31	54,54,54,54	0
59	MG	AA	1623	1/1	0.93	0.33	66,66,66,66	0
59	MG	AA	1785	1/1	0.93	0.06	108,108,108,108	0
59	MG	DA	3359	1/1	0.93	0.13	64,64,64,64	0
59	MG	CA	1694	1/1	0.93	0.12	93,93,93,93	0
59	MG	BA	3182	1/1	0.93	0.10	60,60,60,60	0
59	MG	BA	3328	1/1	0.93	0.26	76,76,76,76	0
59	MG	BA	3584	1/1	0.93	0.17	65,65,65,65	0
59	MG	DA	3655	1/1	0.93	0.43	91,91,91,91	0
59	MG	DA	3011	1/1	0.93	0.29	40,40,40,40	0
59	MG	BA	3329	1/1	0.93	0.18	1,1,1,1	1
59	MG	BA	2962	1/1	0.93	0.18	70,70,70,70	0
59	MG	AA	1601	1/1	0.93	0.06	74,74,74,74	0
59	MG	DA	3016	1/1	0.93	0.19	51,51,51,51	0
59	MG	AA	1858	1/1	0.93	0.13	60,60,60,60	0
59	MG	AA	1846	1/1	0.93	0.27	45,45,45,45	0
59	MG	DA	3020	1/1	0.93	0.17	52,52,52,52	0
59	MG	DA	3375	1/1	0.93	0.18	57,57,57,57	0
59	MG	BA	3280	1/1	0.93	0.23	38,38,38,38	0
59	MG	DP	202	1/1	0.93	0.18	49,49,49,49	1
59	MG	BA	3449	1/1	0.93	0.11	69,69,69,69	0
59	MG	DA	3247	1/1	0.93	0.31	41,41,41,41	0
59	MG	AT	201	1/1	0.93	0.06	76,76,76,76	1
59	MG	CA	1631	1/1	0.93	0.08	59,59,59,59	0
59	MG	BA	3451	1/1	0.93	0.08	55,55,55,55	0
59	MG	DT	201	1/1	0.93	0.05	5,5,5,5	1
59	MG	DU	201	1/1	0.93	0.13	68,68,68,68	0
59	MG	DU	203	1/1	0.93	0.21	36,36,36,36	0
59	MG	DA	3140	1/1	0.93	0.54	77,77,77,77	0
59	MG	DA	3528	1/1	0.93	0.14	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
60	ZN	CD	301	1/1	0.93	0.20	151,151,151,151	0
59	MG	BA	3197	1/1	0.94	0.23	54,54,54,54	0
59	MG	AA	1893	1/1	0.94	0.20	56,56,56,56	0
59	MG	DA	3377	1/1	0.94	0.11	16,16,16,16	0
59	MG	DA	3595	1/1	0.94	0.37	75,75,75,75	0
59	MG	DA	3284	1/1	0.94	0.14	25,25,25,25	0
59	MG	DA	3031	1/1	0.94	0.26	51,51,51,51	0
59	MG	DA	3194	1/1	0.94	0.30	92,92,92,92	0
59	MG	BA	3175	1/1	0.94	0.20	25,25,25,25	0
59	MG	CA	1706	1/1	0.94	0.06	47,47,47,47	0
59	MG	BA	3291	1/1	0.94	0.28	41,41,41,41	0
59	MG	DA	3604	1/1	0.94	0.23	39,39,39,39	0
59	MG	BA	3476	1/1	0.94	0.11	58,58,58,58	0
59	MG	DA	3606	1/1	0.94	0.10	88,88,88,88	1
59	MG	BA	2931	1/1	0.94	0.13	44,44,44,44	0
59	MG	BA	2906	1/1	0.94	0.21	92,92,92,92	0
59	MG	BA	3297	1/1	0.94	0.08	34,34,34,34	0
59	MG	DA	3610	1/1	0.94	0.20	112,112,112,112	0
59	MG	CA	1713	1/1	0.94	0.11	65,65,65,65	1
59	MG	DA	3204	1/1	0.94	0.16	70,70,70,70	0
59	MG	BY	201	1/1	0.94	0.08	50,50,50,50	0
59	MG	DA	3740	1/1	0.94	0.08	50,50,50,50	0
59	MG	DA	3045	1/1	0.94	0.08	47,47,47,47	0
59	MG	DA	3396	1/1	0.94	0.25	62,62,62,62	0
59	MG	BA	3052	1/1	0.94	0.13	64,64,64,64	0
59	MG	DA	3398	1/1	0.94	0.12	31,31,31,31	1
59	MG	DA	3399	1/1	0.94	0.16	62,62,62,62	0
59	MG	DA	3209	1/1	0.94	0.20	50,50,50,50	0
59	MG	BA	3483	1/1	0.94	0.33	60,60,60,60	0
59	MG	DA	2973	1/1	0.94	0.15	21,21,21,21	0
59	MG	BA	3436	1/1	0.94	0.06	62,62,62,62	0
59	MG	DA	3626	1/1	0.94	0.09	34,34,34,34	0
59	MG	AA	1657	1/1	0.94	0.06	77,77,77,77	0
59	MG	BA	3537	1/1	0.94	0.15	28,28,28,28	0
59	MG	BA	3264	1/1	0.94	0.21	42,42,42,42	0
59	MG	BA	3054	1/1	0.94	0.15	100,100,100,100	0
59	MG	BA	3266	1/1	0.94	0.09	65,65,65,65	0
59	MG	BA	3489	1/1	0.94	0.05	22,22,22,22	0
59	MG	BA	3490	1/1	0.94	0.26	19,19,19,19	0
59	MG	DA	3313	1/1	0.94	0.20	101,101,101,101	0
59	MG	CA	1665	1/1	0.94	0.15	79,79,79,79	0
59	MG	BA	3444	1/1	0.94	0.24	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3763	1/1	0.94	0.10	62,62,62,62	1
59	MG	CA	1728	1/1	0.94	0.11	88,88,88,88	0
59	MG	BA	3081	1/1	0.94	0.27	64,64,64,64	0
59	MG	DA	3641	1/1	0.94	0.49	68,68,68,68	0
59	MG	CA	1614	1/1	0.94	0.21	72,72,72,72	0
59	MG	AA	1760	1/1	0.94	0.23	45,45,45,45	0
59	MG	DA	3529	1/1	0.94	0.06	42,42,42,42	0
59	MG	DA	3647	1/1	0.94	0.28	36,36,36,36	0
59	MG	DA	3773	1/1	0.94	0.12	90,90,90,90	0
59	MG	BA	3371	1/1	0.94	0.11	63,63,63,63	0
59	MG	BA	3372	1/1	0.94	0.20	70,70,70,70	0
59	MG	DA	2924	1/1	0.94	0.08	65,65,65,65	0
59	MG	DA	3427	1/1	0.94	0.29	78,78,78,78	0
59	MG	BA	3155	1/1	0.94	0.17	29,29,29,29	0
59	MG	DA	2996	1/1	0.94	0.49	71,71,71,71	1
59	MG	DA	3431	1/1	0.94	0.20	38,38,38,38	0
59	MG	AA	1733	1/1	0.94	0.07	71,71,71,71	0
59	MG	DA	3237	1/1	0.94	0.19	37,37,37,37	0
59	MG	CP	101	1/1	0.94	0.05	81,81,81,81	0
59	MG	BA	3551	1/1	0.94	0.23	82,82,82,82	0
59	MG	AA	1871	1/1	0.94	0.31	144,144,144,144	0
59	MG	DA	3543	1/1	0.94	0.15	71,71,71,71	0
59	MG	AA	1670	1/1	0.94	0.09	28,28,28,28	1
59	MG	DA	3082	1/1	0.94	0.13	82,82,82,82	0
59	MG	DA	3243	1/1	0.94	0.27	64,64,64,64	0
59	MG	BA	3377	1/1	0.94	0.16	59,59,59,59	0
59	MG	DA	3162	1/1	0.94	0.37	122,122,122,122	0
59	MG	BA	2941	1/1	0.94	0.15	62,62,62,62	0
59	MG	BA	3242	1/1	0.94	0.38	60,60,60,60	0
59	MG	CA	1744	1/1	0.94	0.11	57,57,57,57	0
59	MG	BA	3503	1/1	0.94	0.16	65,65,65,65	1
59	MG	DA	3450	1/1	0.94	0.14	100,100,100,100	0
59	MG	BA	3041	1/1	0.94	0.13	37,37,37,37	0
59	MG	DA	3675	1/1	0.94	0.18	39,39,39,39	0
59	MG	DA	3557	1/1	0.94	0.10	64,64,64,64	0
59	MG	DA	3089	1/1	0.94	0.13	81,81,81,81	0
59	MG	BA	3559	1/1	0.94	0.16	45,45,45,45	0
59	MG	DA	3681	1/1	0.94	0.06	28,28,28,28	0
59	MG	DB	210	1/1	0.94	0.14	56,56,56,56	0
59	MG	AA	1973	1/1	0.94	0.15	69,69,69,69	0
59	MG	DD	301	1/1	0.94	0.21	57,57,57,57	0
59	MG	DA	3456	1/1	0.94	0.34	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3258	1/1	0.94	0.12	48,48,48,48	0
59	MG	DA	3010	1/1	0.94	0.25	49,49,49,49	0
59	MG	DD	306	1/1	0.94	0.09	60,60,60,60	0
59	MG	BA	2925	1/1	0.94	0.24	33,33,33,33	0
59	MG	BA	3461	1/1	0.94	0.24	41,41,41,41	0
59	MG	CV	111	1/1	0.94	0.07	71,71,71,71	0
59	MG	DA	3690	1/1	0.94	0.13	62,62,62,62	0
59	MG	BA	2913	1/1	0.94	0.33	51,51,51,51	0
59	MG	DA	3267	1/1	0.94	0.28	62,62,62,62	0
59	MG	DA	3465	1/1	0.94	0.18	26,26,26,26	0
59	MG	AA	1612	1/1	0.94	0.05	55,55,55,55	0
59	MG	AA	1706	1/1	0.94	0.06	44,44,44,44	1
59	MG	BA	2964	1/1	0.94	0.11	96,96,96,96	0
59	MG	DA	3103	1/1	0.94	0.12	60,60,60,60	0
59	MG	BA	3048	1/1	0.94	0.13	90,90,90,90	0
59	MG	DA	3182	1/1	0.94	0.06	73,73,73,73	0
59	MG	DA	3367	1/1	0.94	0.31	28,28,28,28	1
59	MG	BF	301	1/1	0.94	0.15	60,60,60,60	0
59	MG	CA	1757	1/1	0.94	0.07	83,83,83,83	0
59	MG	BA	3467	1/1	0.94	0.17	93,93,93,93	0
59	MG	DA	3371	1/1	0.94	0.05	59,59,59,59	1
59	MG	BA	3425	1/1	0.94	0.23	48,48,48,48	0
59	MG	BA	3520	1/1	0.94	0.08	80,80,80,80	0
59	MG	BA	3521	1/1	0.94	0.33	119,119,119,119	0
59	MG	DA	3701	1/1	0.95	0.10	55,55,55,55	0
59	MG	BD	302	1/1	0.95	0.09	52,52,52,52	0
59	MG	DA	3704	1/1	0.95	0.23	74,74,74,74	0
59	MG	DA	3051	1/1	0.95	0.19	36,36,36,36	0
59	MG	BD	303	1/1	0.95	0.10	35,35,35,35	0
59	MG	CA	1699	1/1	0.95	0.08	64,64,64,64	0
59	MG	BA	3517	1/1	0.95	0.24	98,98,98,98	0
59	MG	BA	2919	1/1	0.95	0.15	44,44,44,44	1
59	MG	BA	3262	1/1	0.95	0.07	50,50,50,50	0
59	MG	DA	3579	1/1	0.95	0.17	110,110,110,110	0
59	MG	BA	3305	1/1	0.95	0.17	28,28,28,28	0
59	MG	DA	3063	1/1	0.95	0.07	50,50,50,50	0
59	MG	BA	3474	1/1	0.95	0.32	53,53,53,53	0
59	MG	AD	304	1/1	0.95	0.21	135,135,135,135	0
59	MG	BA	3158	1/1	0.95	0.12	33,33,33,33	0
59	MG	AA	1842	1/1	0.95	0.08	58,58,58,58	0
59	MG	CA	1772	1/1	0.95	0.09	79,79,79,79	0
59	MG	BA	3478	1/1	0.95	0.28	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1714	1/1	0.95	0.20	66,66,66,66	0
59	MG	BA	2946	1/1	0.95	0.14	49,49,49,49	0
59	MG	DA	3356	1/1	0.95	0.28	32,32,32,32	0
59	MG	BP	201	1/1	0.95	0.05	24,24,24,24	0
59	MG	DA	3251	1/1	0.95	0.11	53,53,53,53	0
59	MG	BA	3481	1/1	0.95	0.17	59,59,59,59	0
59	MG	BA	3531	1/1	0.95	0.29	53,53,53,53	0
59	MG	BA	3195	1/1	0.95	0.31	85,85,85,85	0
59	MG	DA	3077	1/1	0.95	0.22	68,68,68,68	0
59	MG	AA	1665	1/1	0.95	0.27	60,60,60,60	0
59	MG	DA	3364	1/1	0.95	0.15	59,59,59,59	0
59	MG	BR	204	1/1	0.95	0.08	26,26,26,26	0
59	MG	DA	3603	1/1	0.95	0.09	60,60,60,60	0
59	MG	DA	3482	1/1	0.95	0.27	37,37,37,37	1
59	MG	DA	3741	1/1	0.95	0.20	43,43,43,43	0
59	MG	BA	3068	1/1	0.95	0.29	59,59,59,59	0
59	MG	DA	3484	1/1	0.95	0.36	58,58,58,58	0
59	MG	DA	2995	1/1	0.95	0.07	44,44,44,44	0
59	MG	BA	3099	1/1	0.95	0.13	30,30,30,30	0
59	MG	AV	105	1/1	0.95	0.04	80,80,80,80	0
59	MG	AI	203	1/1	0.95	0.10	138,138,138,138	0
59	MG	BA	2974	1/1	0.95	0.23	38,38,38,38	0
59	MG	BA	3134	1/1	0.95	0.06	65,65,65,65	0
59	MG	AA	1967	1/1	0.95	0.13	67,67,67,67	0
59	MG	BA	3279	1/1	0.95	0.18	59,59,59,59	0
59	MG	AA	1864	1/1	0.95	0.10	67,67,67,67	0
59	MG	DA	3090	1/1	0.95	0.10	35,35,35,35	0
59	MG	DA	2929	1/1	0.95	0.13	10,10,10,10	1
59	MG	BA	3023	1/1	0.95	0.10	64,64,64,64	0
59	MG	BA	3593	1/1	0.95	0.07	41,41,41,41	0
59	MG	DA	3500	1/1	0.95	0.13	84,84,84,84	0
59	MG	DA	2932	1/1	0.95	0.76	1,1,1,1	1
59	MG	AA	1799	1/1	0.95	0.09	80,80,80,80	0
59	MG	DA	3625	1/1	0.95	0.24	29,29,29,29	0
59	MG	DA	3183	1/1	0.95	0.11	94,94,94,94	0
59	MG	DA	3504	1/1	0.95	0.09	60,60,60,60	0
59	MG	DA	3281	1/1	0.95	0.23	31,31,31,31	0
59	MG	DA	3385	1/1	0.95	0.09	43,43,43,43	0
59	MG	DA	3386	1/1	0.95	0.26	99,99,99,99	0
59	MG	CA	1669	1/1	0.95	0.06	57,57,57,57	0
59	MG	DA	3097	1/1	0.95	0.15	69,69,69,69	0
59	MG	AA	1616	1/1	0.95	0.17	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3285	1/1	0.95	0.17	37,37,37,37	0
59	MG	DA	3772	1/1	0.95	0.07	69,69,69,69	0
59	MG	AA	1746	1/1	0.95	0.15	66,66,66,66	0
59	MG	DA	3012	1/1	0.95	0.21	30,30,30,30	0
59	MG	DA	3514	1/1	0.95	0.12	82,82,82,82	0
59	MG	DA	3639	1/1	0.95	0.17	37,37,37,37	0
59	MG	CA	1734	1/1	0.95	0.14	56,56,56,56	0
59	MG	CA	1612	1/1	0.95	0.13	58,58,58,58	0
59	MG	DA	3290	1/1	0.95	0.17	32,32,32,32	0
59	MG	DA	3104	1/1	0.95	0.07	63,63,63,63	0
59	MG	CA	1736	1/1	0.95	0.07	60,60,60,60	0
59	MG	BA	2932	1/1	0.95	0.22	63,63,63,63	0
59	MG	BA	3410	1/1	0.95	0.36	42,42,42,42	0
59	MG	AA	1928	1/1	0.95	0.20	42,42,42,42	0
59	MG	DA	3402	1/1	0.95	0.21	16,16,16,16	0
59	MG	B0	101	1/1	0.95	0.43	73,73,73,73	0
59	MG	CA	1617	1/1	0.95	0.04	66,66,66,66	0
59	MG	DA	3199	1/1	0.95	0.14	30,30,30,30	0
59	MG	CA	1678	1/1	0.95	0.05	45,45,45,45	1
59	MG	BA	3601	1/1	0.95	0.42	79,79,79,79	0
59	MG	BA	3250	1/1	0.95	0.07	51,51,51,51	0
59	MG	DA	3115	1/1	0.95	0.33	39,39,39,39	0
59	MG	BA	3114	1/1	0.95	0.08	80,80,80,80	0
59	MG	CA	1682	1/1	0.95	0.26	53,53,53,53	0
59	MG	DA	3206	1/1	0.95	0.11	66,66,66,66	0
59	MG	BA	3292	1/1	0.95	0.12	29,29,29,29	0
59	MG	DA	2952	1/1	0.95	0.16	44,44,44,44	0
59	MG	AA	1878	1/1	0.95	0.08	76,76,76,76	0
59	MG	CA	1623	1/1	0.95	0.04	81,81,81,81	0
59	MG	DB	206	1/1	0.95	0.08	65,65,65,65	1
59	MG	DA	3310	1/1	0.95	0.15	90,90,90,90	1
59	MG	BA	3606	1/1	0.95	0.18	65,65,65,65	0
59	MG	CA	1687	1/1	0.95	0.05	63,63,63,63	0
59	MG	DA	3213	1/1	0.95	0.25	67,67,67,67	0
59	MG	BA	3056	1/1	0.95	0.37	156,156,156,156	0
59	MG	DA	3315	1/1	0.95	0.17	77,77,77,77	0
59	MG	DD	302	1/1	0.95	0.16	53,53,53,53	0
59	MG	DA	3216	1/1	0.95	0.14	36,36,36,36	0
59	MG	DA	3674	1/1	0.95	0.35	55,55,55,55	0
59	MG	D1	102	1/1	0.95	0.16	80,80,80,80	0
59	MG	DA	3430	1/1	0.95	0.11	25,25,25,25	0
59	MG	DA	3129	1/1	0.95	0.29	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3038	1/1	0.95	0.24	32,32,32,32	0
59	MG	DA	3551	1/1	0.95	0.19	53,53,53,53	0
59	MG	AA	1930	1/1	0.95	0.06	64,64,64,64	0
59	MG	AA	1741	1/1	0.95	0.14	54,54,54,54	0
59	MG	BA	3257	1/1	0.95	0.40	42,42,42,42	0
59	MG	BA	3510	1/1	0.95	0.26	41,41,41,41	0
59	MG	DA	2963	1/1	0.95	0.04	39,39,39,39	1
59	MG	DA	3687	1/1	0.95	0.09	43,43,43,43	0
59	MG	DA	3328	1/1	0.95	0.15	34,34,34,34	0
59	MG	DA	3136	1/1	0.95	0.28	97,97,97,97	0
59	MG	DA	3560	1/1	0.95	0.06	58,58,58,58	0
59	MG	AA	1636	1/1	0.95	0.14	53,53,53,53	0
59	MG	AA	1841	1/1	0.95	0.19	42,42,42,42	0
59	MG	DA	3564	1/1	0.95	0.18	42,42,42,42	0
59	MG	DA	3332	1/1	0.95	0.17	26,26,26,26	0
59	MG	DA	3333	1/1	0.95	0.25	55,55,55,55	0
59	MG	DU	202	1/1	0.95	0.28	8,8,8,8	1
59	MG	DA	3229	1/1	0.95	0.06	51,51,51,51	0
59	MG	BA	3469	1/1	0.95	0.28	102,102,102,102	0
59	MG	DA	3699	1/1	0.95	0.07	62,62,62,62	0
59	MG	BA	3470	1/1	0.95	0.15	35,35,35,35	0
59	MG	DA	3458	1/1	0.96	0.39	59,59,59,59	0
59	MG	DA	3638	1/1	0.96	0.15	21,21,21,21	0
59	MG	BA	3347	1/1	0.96	0.19	30,30,30,30	0
59	MG	CA	1711	1/1	0.96	0.06	65,65,65,65	1
59	MG	AA	1629	1/1	0.96	0.17	80,80,80,80	0
59	MG	AA	1960	1/1	0.96	0.07	72,72,72,72	0
59	MG	AN	103	1/1	0.96	0.15	147,147,147,147	0
59	MG	BA	3351	1/1	0.96	0.14	26,26,26,26	0
59	MG	BA	3066	1/1	0.96	0.30	57,57,57,57	0
59	MG	AA	1824	1/1	0.96	0.11	83,83,83,83	0
59	MG	DA	3554	1/1	0.96	0.06	95,95,95,95	0
59	MG	DA	3018	1/1	0.96	0.05	76,76,76,76	0
59	MG	AA	1892	1/1	0.96	0.10	75,75,75,75	0
59	MG	AQ	201	1/1	0.96	0.06	97,97,97,97	1
59	MG	BA	3356	1/1	0.96	0.16	45,45,45,45	0
59	MG	BA	3161	1/1	0.96	0.12	39,39,39,39	0
59	MG	BA	2934	1/1	0.96	0.24	57,57,57,57	0
59	MG	BA	3100	1/1	0.96	0.06	47,47,47,47	0
59	MG	BA	3022	1/1	0.96	0.05	43,43,43,43	0
59	MG	BA	3549	1/1	0.96	0.16	84,84,84,84	0
59	MG	DA	3660	1/1	0.96	0.34	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3166	1/1	0.96	0.43	89,89,89,89	0
59	MG	DA	3029	1/1	0.96	0.11	30,30,30,30	0
59	MG	CA	1782	1/1	0.96	0.10	52,52,52,52	0
59	MG	DA	3394	1/1	0.96	0.09	63,63,63,63	0
59	MG	DA	3570	1/1	0.96	0.08	62,62,62,62	0
59	MG	BA	2956	1/1	0.96	0.05	37,37,37,37	1
59	MG	DA	3319	1/1	0.96	0.17	47,47,47,47	0
59	MG	DA	3102	1/1	0.96	0.10	86,86,86,86	0
59	MG	BA	3200	1/1	0.96	0.04	31,31,31,31	0
59	MG	BA	3073	1/1	0.96	0.23	52,52,52,52	0
59	MG	BA	3169	1/1	0.96	0.16	24,24,24,24	0
59	MG	DA	3774	1/1	0.96	0.23	84,84,84,84	0
59	MG	BA	3459	1/1	0.96	0.13	44,44,44,44	0
59	MG	DA	3178	1/1	0.96	0.11	29,29,29,29	0
59	MG	BA	3074	1/1	0.96	0.15	36,36,36,36	0
59	MG	AA	1884	1/1	0.96	0.04	89,89,89,89	0
59	MG	AA	1672	1/1	0.96	0.06	77,77,77,77	0
59	MG	AA	1916	1/1	0.96	0.04	70,70,70,70	0
59	MG	DA	2978	1/1	0.96	0.18	33,33,33,33	0
59	MG	B5	103	1/1	0.96	0.18	36,36,36,36	0
59	MG	DA	3256	1/1	0.96	0.30	42,42,42,42	0
59	MG	DA	3586	1/1	0.96	0.30	34,34,34,34	0
59	MG	DA	3410	1/1	0.96	0.29	25,25,25,25	0
59	MG	DA	3044	1/1	0.96	0.10	78,78,78,78	0
59	MG	DA	3412	1/1	0.96	0.32	42,42,42,42	0
59	MG	DA	3260	1/1	0.96	0.32	33,33,33,33	0
59	MG	DA	3336	1/1	0.96	0.21	31,31,31,31	0
59	MG	AA	1613	1/1	0.96	0.26	74,74,74,74	0
59	MG	AA	1896	1/1	0.96	0.06	78,78,78,78	0
59	MG	BA	3332	1/1	0.96	0.13	19,19,19,19	0
59	MG	BD	301	1/1	0.96	0.25	25,25,25,25	0
59	MG	BA	3418	1/1	0.96	0.21	69,69,69,69	0
59	MG	DA	3795	1/1	0.96	0.20	25,25,25,25	0
59	MG	BA	3515	1/1	0.96	0.16	47,47,47,47	1
59	MG	DA	3422	1/1	0.96	0.38	63,63,63,63	0
59	MG	BA	3516	1/1	0.96	0.32	64,64,64,64	0
59	MG	BA	3419	1/1	0.96	0.20	49,49,49,49	0
59	MG	DB	203	1/1	0.96	0.06	30,30,30,30	1
59	MG	BA	3288	1/1	0.96	0.31	38,38,38,38	0
59	MG	DA	3426	1/1	0.96	0.19	28,28,28,28	0
59	MG	AV	103	1/1	0.96	0.05	72,72,72,72	0
59	MG	DA	3702	1/1	0.96	0.11	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	AA	1954	1/1	0.96	0.27	67,67,67,67	0
59	MG	DA	3273	1/1	0.96	0.29	54,54,54,54	0
59	MG	BA	3252	1/1	0.96	0.15	75,75,75,75	0
59	MG	DA	3060	1/1	0.96	0.27	77,77,77,77	0
59	MG	DA	3061	1/1	0.96	0.10	67,67,67,67	0
59	MG	DA	3709	1/1	0.96	0.08	61,61,61,61	0
59	MG	DA	2992	1/1	0.96	0.38	103,103,103,103	0
59	MG	BA	3572	1/1	0.96	0.27	68,68,68,68	0
59	MG	DA	3523	1/1	0.96	0.11	34,34,34,34	0
59	MG	DA	2994	1/1	0.96	0.19	60,60,60,60	0
59	MG	BA	3144	1/1	0.96	0.15	73,73,73,73	0
59	MG	BA	3294	1/1	0.96	0.20	73,73,73,73	0
59	MG	BA	3214	1/1	0.96	0.29	85,85,85,85	0
59	MG	BA	3525	1/1	0.96	0.07	44,44,44,44	0
59	MG	DA	3069	1/1	0.96	0.05	50,50,50,50	0
59	MG	DA	3720	1/1	0.96	0.08	66,66,66,66	0
59	MG	BA	3427	1/1	0.96	0.16	63,63,63,63	0
59	MG	BP	203	1/1	0.96	0.11	88,88,88,88	0
59	MG	DA	3623	1/1	0.96	0.09	28,28,28,28	0
59	MG	DP	201	1/1	0.96	0.06	36,36,36,36	1
59	MG	DA	3532	1/1	0.96	0.15	79,79,79,79	0
59	MG	BA	3009	1/1	0.96	0.23	80,80,80,80	0
59	MG	DA	2941	1/1	0.96	0.05	27,27,27,27	1
59	MG	DA	3448	1/1	0.96	0.06	55,55,55,55	0
59	MG	BA	2903	1/1	0.96	0.26	37,37,37,37	0
59	MG	AA	1862	1/1	0.96	0.26	65,65,65,65	0
59	MG	DA	3215	1/1	0.96	0.21	69,69,69,69	0
59	MG	DA	3452	1/1	0.96	0.18	30,30,30,30	0
59	MG	AA	1888	1/1	0.96	0.12	58,58,58,58	0
59	MG	AA	1647	1/1	0.96	0.10	35,35,35,35	0
59	MG	BR	205	1/1	0.96	0.08	76,76,76,76	0
59	MG	AA	1933	1/1	0.96	0.17	67,67,67,67	0
59	MG	BA	3152	1/1	0.96	0.16	34,34,34,34	0
59	MG	DA	3469	1/1	0.97	0.17	65,65,65,65	0
59	MG	DA	3644	1/1	0.97	0.16	54,54,54,54	0
59	MG	DA	3217	1/1	0.97	0.43	69,69,69,69	0
59	MG	DA	3646	1/1	0.97	0.28	57,57,57,57	0
59	MG	DA	3471	1/1	0.97	0.16	63,63,63,63	0
59	MG	DA	3416	1/1	0.97	0.17	35,35,35,35	0
59	MG	BA	3402	1/1	0.97	0.28	37,37,37,37	0
59	MG	AY	101	1/1	0.97	0.35	6,6,6,6	1
59	MG	BA	2926	1/1	0.97	0.10	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3318	1/1	0.97	0.05	59,59,59,59	0
59	MG	BA	3428	1/1	0.97	0.43	72,72,72,72	0
59	MG	BA	3456	1/1	0.97	0.27	33,33,33,33	0
59	MG	BA	3228	1/1	0.97	0.45	99,99,99,99	0
59	MG	BA	2969	1/1	0.97	0.10	41,41,41,41	0
59	MG	CA	1653	1/1	0.97	0.18	39,39,39,39	0
59	MG	DA	3658	1/1	0.97	0.09	53,53,53,53	0
59	MG	BA	3273	1/1	0.97	0.27	31,31,31,31	0
59	MG	DA	3054	1/1	0.97	0.05	69,69,69,69	0
59	MG	DA	3726	1/1	0.97	0.10	65,65,65,65	0
59	MG	DA	3055	1/1	0.97	0.22	51,51,51,51	0
59	MG	BP	202	1/1	0.97	0.13	69,69,69,69	1
59	MG	DA	3057	1/1	0.97	0.15	32,32,32,32	0
59	MG	DA	3186	1/1	0.97	0.06	42,42,42,42	0
59	MG	DA	3381	1/1	0.97	0.34	43,43,43,43	0
59	MG	BA	2960	1/1	0.97	0.31	84,84,84,84	0
59	MG	DA	3490	1/1	0.97	0.08	29,29,29,29	1
59	MG	AA	1679	1/1	0.97	0.20	53,53,53,53	1
59	MG	CA	1727	1/1	0.97	0.10	74,74,74,74	0
59	MG	DA	3437	1/1	0.97	0.05	12,12,12,12	1
59	MG	DA	3738	1/1	0.97	0.10	89,89,89,89	0
59	MG	BA	3574	1/1	0.97	0.12	53,53,53,53	0
59	MG	BA	3232	1/1	0.97	0.19	64,64,64,64	0
59	MG	BA	3079	1/1	0.97	0.08	37,37,37,37	0
59	MG	DA	3742	1/1	0.97	0.27	51,51,51,51	0
59	MG	BA	3163	1/1	0.97	0.21	35,35,35,35	0
59	MG	AA	1808	1/1	0.97	0.23	57,57,57,57	0
59	MG	DA	3499	1/1	0.97	0.21	90,90,90,90	0
59	MG	DA	3678	1/1	0.97	0.20	100,100,100,100	0
59	MG	BA	3302	1/1	0.97	0.45	69,69,69,69	0
59	MG	BA	3106	1/1	0.97	0.04	35,35,35,35	0
59	MG	BU	202	1/1	0.97	0.12	39,39,39,39	0
59	MG	CA	1667	1/1	0.97	0.10	66,66,66,66	0
59	MG	DA	3110	1/1	0.97	0.19	200,200,200,200	0
59	MG	BA	3441	1/1	0.97	0.06	40,40,40,40	0
59	MG	DA	3246	1/1	0.97	0.10	32,32,32,32	0
59	MG	DA	2915	1/1	0.97	0.16	48,48,48,48	0
59	MG	DA	3565	1/1	0.97	0.16	54,54,54,54	0
59	MG	BA	3442	1/1	0.97	0.27	65,65,65,65	0
59	MG	AA	1899	1/1	0.97	0.09	63,63,63,63	0
59	MG	BA	3136	1/1	0.97	0.12	34,34,34,34	0
59	MG	BA	3151	1/1	0.97	0.09	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	BA	3024	1/1	0.97	0.12	79,79,79,79	0
59	MG	DP	203	1/1	0.97	0.17	53,53,53,53	0
59	MG	DA	3118	1/1	0.97	0.05	63,63,63,63	0
59	MG	BA	3396	1/1	0.97	0.23	86,86,86,86	0
59	MG	DA	3120	1/1	0.97	0.24	106,106,106,106	0
59	MG	AA	1649	1/1	0.97	0.06	63,63,63,63	0
59	MG	DA	3257	1/1	0.97	0.32	29,29,29,29	0
59	MG	AA	1961	1/1	0.97	0.19	87,87,87,87	0
59	MG	DA	3259	1/1	0.97	0.22	32,32,32,32	0
59	MG	AX	104	1/1	0.97	0.17	43,43,43,43	0
59	MG	BA	3156	1/1	0.97	0.17	27,27,27,27	0
59	MG	DU	204	1/1	0.97	0.12	19,19,19,19	0
59	MG	BE	302	1/1	0.97	0.06	30,30,30,30	0
59	MG	BA	3506	1/1	0.97	0.06	42,42,42,42	0
59	MG	D5	102	1/1	0.97	0.07	63,63,63,63	0
59	MG	DA	3715	1/1	0.98	0.11	64,64,64,64	0
59	MG	BA	3314	1/1	0.98	0.28	29,29,29,29	0
59	MG	BA	3438	1/1	0.98	0.09	29,29,29,29	0
59	MG	DA	3677	1/1	0.98	0.13	45,45,45,45	0
59	MG	DA	3122	1/1	0.98	0.40	38,38,38,38	0
59	MG	BA	3271	1/1	0.98	0.16	29,29,29,29	0
59	MG	BA	3237	1/1	0.98	0.11	58,58,58,58	0
59	MG	D5	101	1/1	0.98	0.15	48,48,48,48	0
59	MG	DA	3434	1/1	0.98	0.33	44,44,44,44	0
59	MG	DA	3041	1/1	0.98	0.12	78,78,78,78	0
59	MG	DA	3339	1/1	0.98	0.34	37,37,37,37	0
59	MG	AA	1655	1/1	0.98	0.04	101,101,101,101	0
59	MG	DA	3768	1/1	0.98	0.04	58,58,58,58	1
59	MG	DA	2964	1/1	0.98	0.29	54,54,54,54	0
59	MG	BA	3261	1/1	0.98	0.12	41,41,41,41	0
59	MG	BR	202	1/1	0.98	0.04	24,24,24,24	0
59	MG	BA	3319	1/1	0.98	0.28	33,33,33,33	0
59	MG	BA	3078	1/1	0.98	0.10	18,18,18,18	0
59	MG	DA	3616	1/1	0.98	0.21	51,51,51,51	0
59	MG	BA	3289	1/1	0.98	0.21	39,39,39,39	0
59	MG	DE	304	1/1	0.98	0.14	22,22,22,22	0
59	MG	DF	301	1/1	0.98	0.10	17,17,17,17	1
59	MG	DA	3734	1/1	0.98	0.08	74,74,74,74	0
59	MG	DA	3444	1/1	0.98	0.34	31,31,31,31	0
59	MG	BA	3202	1/1	0.98	0.07	24,24,24,24	0
59	MG	BA	3306	1/1	0.98	0.24	57,57,57,57	0
59	MG	AA	1653	1/1	0.98	0.04	68,68,68,68	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
59	MG	DA	3024	1/1	0.98	0.13	92,92,92,92	0
59	MG	BE	303	1/1	0.98	0.11	22,22,22,22	0
59	MG	CA	1645	1/1	0.98	0.12	50,50,50,50	0
59	MG	BA	3131	1/1	0.98	0.13	43,43,43,43	0
59	MG	DA	3589	1/1	0.98	0.32	47,47,47,47	0
59	MG	DA	3141	1/1	0.98	0.17	99,99,99,99	0
59	MG	AA	1654	1/1	0.98	0.13	58,58,58,58	1
59	MG	DA	3705	1/1	0.98	0.17	58,58,58,58	0
59	MG	AA	1693	1/1	0.98	0.05	56,56,56,56	1
59	MG	BA	2936	1/1	0.98	0.28	43,43,43,43	0
59	MG	BA	3398	1/1	0.98	0.26	53,53,53,53	0
59	MG	DA	3327	1/1	0.98	0.04	39,39,39,39	1
59	MG	AA	1664	1/1	0.98	0.04	17,17,17,17	1
59	MG	DA	3033	1/1	0.98	0.07	50,50,50,50	0
59	MG	BA	3589	1/1	0.98	0.07	41,41,41,41	0
59	MG	DA	3599	1/1	0.98	0.09	39,39,39,39	0
60	ZN	AD	301	1/1	0.98	0.12	106,106,106,106	0
59	MG	BA	3247	1/1	0.98	0.15	62,62,62,62	1
59	MG	BA	3322	1/1	0.99	0.25	24,24,24,24	0
59	MG	BA	3126	1/1	0.99	0.04	36,36,36,36	0
59	MG	CA	1666	1/1	0.99	0.03	63,63,63,63	0
59	MG	DA	2971	1/1	0.99	0.03	20,20,20,20	0
59	MG	BA	3090	1/1	0.99	0.05	27,27,27,27	0
59	MG	AP	101	1/1	0.99	0.05	93,93,93,93	0
59	MG	DA	3264	1/1	0.99	0.08	47,47,47,47	1
59	MG	DA	3562	1/1	0.99	0.03	25,25,25,25	1
59	MG	AA	1688	1/1	0.99	0.04	22,22,22,22	1
59	MG	BA	3530	1/1	0.99	0.08	33,33,33,33	0
59	MG	DA	3697	1/1	0.99	0.09	32,32,32,32	0
59	MG	BA	3235	1/1	0.99	0.08	40,40,40,40	0
60	ZN	AD	305	1/1	0.99	0.10	88,88,88,88	0
60	ZN	AN	101	1/1	0.99	0.03	153,153,153,153	0
59	MG	BA	3038	1/1	0.99	0.03	17,17,17,17	0
59	MG	BA	3296	1/1	1.00	0.23	27,27,27,27	0

6.5 Other polymers ⓘ

There are no such residues in this entry.