Full wwPDB X-ray Structure Validation Report (i)

Mar 9, 2026 – 05:14 PM UTC

PDB ID	:	4V8N / pdb_00004v8n
Title	:	The crystal structure of agmatidine tRNA-Ile2 bound to the 70S ribosome in the A and P site.
Authors	:	Voorhees, R.M.; Mandal, D.; Neubauer, C.; Koehrer, C.; RajBhandary, U.L.; Ramakrishnan, V.
Deposited on	:	2013-02-13
Resolution	:	3.10 Å(reported)

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

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

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

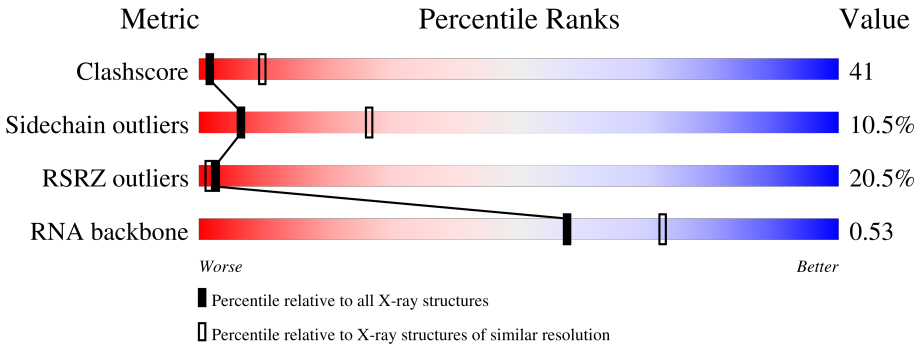
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1539 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)
RNA backbone	3983	1022 (3.32-2.88)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	26% 24% 63% 10% ••
1	CA	1522	24% 23% 64% 10% ••
2	AB	256	17% 19% 65% 8% 8%
2	CB	256	23% 18% 65% 8% 8%
3	AC	239	21% 24% 56% 6% 13%
3	CC	239	20% 22% 59% 6% 13%

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Mol	Chain	Length	Quality of chain
4	AD	209	31% 26% 65% 8%
4	CD	209	18% 29% 63% 8%
5	AE	162	12% 24% 64% 6% 7%
5	CE	162	27% 25% 62% 6% 7%
6	AF	101	8% 32% 63% 5%
6	CF	101	6% 36% 59% 5%
7	AG	156	33% 24% 69% 6%
7	CG	156	22% 26% 68% 6%
8	AH	138	9% 38% 54% 9%
8	CH	138	20% 36% 54% 10%
9	AI	128	41% 22% 73% 5%
9	CI	128	41% 22% 73% 5%
10	AJ	105	35% 12% 76% 5% 6%
10	CJ	105	47% 12% 77% 6%
11	AK	129	12% 31% 57% 8%
11	CK	129	12% 33% 56% 8%
12	AL	135	41% 21% 51% 18% 7%
12	CL	135	31% 21% 51% 18% 7%
13	AM	126	44% 22% 66% 5% 6%
13	CM	126	34% 20% 68% 5% 6%
14	AN	61	48% 39% 56%
14	CN	61	46% 36% 57% 5%
15	AO	89	6% 37% 61%
15	CO	89	12% 36% 62%
16	AP	88	40% 20% 68% 7% 5%

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Mol	Chain	Length	Quality of chain
16	CP	88	10% 28% 60% 7% 5%
17	AQ	105	16% 23% 70% 5%
17	CQ	105	15% 29% 64% 5%
18	AR	88	6% 22% 51% 7% 20%
18	CR	88	9% 22% 52% 6% 20%
19	AS	93	56% 24% 52% 10% 15%
19	CS	93	38% 25% 51% 10% 15%
20	AT	106	28% 29% 57% 8% 7%
20	CT	106	22% 31% 55% 8% 7%
21	AU	27	63% 37% 48% 7% 7%
21	CU	27	52% 33% 52% 7% 7%
22	AV	78	29% 5% 44% 45% 6%
22	AY	78	24% 45% 45% 8%
22	CV	78	54% 51% 40% 5%
22	CY	78	46% 5% 44% 40% 12%
23	AW	78	35% 33% 45% 21%
23	CW	78	59% 45% 41% 13%
24	AX	24	29% 17% 25% 8% 50%
24	CX	24	38% 38% 8% 50%
25	B0	85	33% 44% 45% 11%
25	D0	85	34% 41% 47% 11%
26	B1	98	9% 36% 49% 10%
26	D1	98	9% 29% 56% 10%
27	B2	72	6% 25% 60% 14%
27	D2	72	11% 32% 54% 11%

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Mol	Chain	Length	Quality of chain
28	B3	60	12% 35% 60% 5%
28	D3	60	18% 37% 58% 5%
29	B4	71	42% 20% 49% 13% 18%
29	D4	71	25% 23% 46% 13% 18%
30	B5	60	7% 37% 48% 8% 7%
30	D5	60	12% 38% 47% 8% 7%
31	B6	54	33% 13% 59% 20% 7%
31	D6	54	35% 13% 59% 20% 7%
32	B7	49	4% 53% 37% 8%
32	D7	49	6% 45% 47% 6%
33	B8	65	26% 25% 57% 15%
33	D8	65	32% 25% 58% 14%
34	B9	37	62% 35% 59% 5%
34	D9	37	68% 32% 62% 5%
35	BA	2915	10% 40% 46% 11%
35	DA	2915	11% 38% 48% 11%
36	BB	122	59% 36% 52% 10%
36	DB	122	58% 37% 51% 10%
37	BC	229	13% 17% 33% 48%
37	DC	229	12% 17% 33% 48%
38	BD	276	6% 29% 54% 14%
38	DD	276	7% 29% 56% 13%
39	BE	206	12% 29% 59% 12%
39	DE	206	11% 28% 57% 14%
40	BF	210	9% 39% 50% 10%

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Mol	Chain	Length	Quality of chain
40	DF	210	8% 38% 51% 10%
41	BG	182	34% 24% 65% 10%
41	DG	182	24% 13% 75% 11%
42	BH	180	17% 28% 52% 11% 8%
42	DH	180	26% 29% 50% 11% 8%
43	BI	148	39% 14% 72% 11%
43	DI	148	41% 17% 70% 11%
44	BJ	173	50% 25% 24%
44	DJ	173	62% 14% 24%
45	BN	140	9% 34% 51% 14%
45	DN	140	13% 31% 54% 15%
46	BO	122	3% 40% 51% 9%
46	DO	122	5% 41% 50% 9%
47	BP	150	32% 19% 60% 17%
47	DP	150	24% 19% 61% 16%
48	BQ	141	20% 33% 60% 7%
48	DQ	141	26% 33% 62%
49	BR	118	8% 25% 58% 15%
49	DR	118	14% 24% 60% 14%
50	BS	112	52% 25% 52% 11% 12%
50	DS	112	45% 22% 54% 11% 12%
51	BT	146	10% 17% 58% 16% 7%
51	DT	146	12% 18% 57% 16% 7%
52	BU	118	6% 40% 47% 12%
52	DU	118	15% 40% 46% 14%

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Mol	Chain	Length	Quality of chain
53	BV	101	9% 27% 57% 16%
53	DV	101	16% 28% 56% 16%
54	BW	113	3% 40% 55% 5%
54	DW	113	3% 39% 55% 6%
55	BX	96	4% 47% 45% 5%
55	DX	96	15% 45% 47% 5%
56	BY	110	29% 15% 65% 12% 8%
56	DY	110	27% 14% 65% 13% 8%
57	BZ	206	34% 25% 55% 8% 10%
57	DZ	206	26% 16% 62% 12% 10%

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
22	AG9	AV	36	X	-	-	-
22	AG9	AY	36	X	-	X	-
22	AG9	CV	36	X	-	X	-
22	AG9	CY	36	X	-	-	-
58	ZN	AD	1000	-	-	X	-
58	ZN	AN	1000	-	-	X	-
58	ZN	CD	1000	-	-	X	-
58	ZN	CN	1000	-	-	X	-

2 Entry composition (i)

There are 58 unique types of molecules in this entry. The entry contains 298096 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	1	MET	-	expression tag	UNP Q5SHN3
AL	2	VAL	-	expression tag	UNP Q5SHN3
AL	3	ALA	-	expression tag	UNP Q5SHN3
AL	4	LEU	-	expression tag	UNP Q5SHN3
CL	1	MET	-	expression tag	UNP Q5SHN3
CL	2	VAL	-	expression tag	UNP Q5SHN3
CL	3	ALA	-	expression tag	UNP Q5SHN3
CL	4	LEU	-	expression tag	UNP Q5SHN3

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	119	Total	C	N	O	S	0	0	1
			938	579	194	163	2			
13	CM	119	Total	C	N	O	S	0	0	1
			938	579	194	163	2			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 22 is a RNA chain called E-SITE TRNA ILE2 AGMATIDINE OR P-SITE TRNA ILE2 AGMATIDINE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	78	Total	C	N	O	P	0	0	0
			1667	746	299	545	77			
22	AY	78	Total	C	N	O	P	0	0	0
			1667	746	299	545	77			
22	CV	78	Total	C	N	O	P	0	0	0
			1667	746	299	545	77			
22	CY	78	Total	C	N	O	P	0	0	0
			1667	746	299	545	77			

- Molecule 23 is a RNA chain called A-SITE TRNA ILE2 AGMATIDINE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	78	Total	C	N	O	P	0	0	0
			1659	741	295	546	77			
23	CW	78	Total	C	N	O	P	0	0	0
			1659	741	295	546	77			

- Molecule 24 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	12	Total	C	N	O	P	0	0	0
			257	118	54	74	11			
24	CX	12	Total	C	N	O	P	0	0	0
			257	118	54	74	11			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			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	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			
29	D4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	56	Total	C	N	O	S	0	0	1
			428	267	87	69	5			
30	D5	56	Total	C	N	O	S	0	0	1
			428	267	87	69	5			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	48	Total	C	N	O	S	0	0	1
			410	251	103	54	2			
32	D7	48	Total	C	N	O	S	0	0	1
			410	251	103	54	2			

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

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

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

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

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

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

- 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	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			
37	DC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			

- 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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			
43	DI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			

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

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

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN 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	1
			1113	710	211	185	7			
48	DQ	141	Total	C	N	O	S	0	0	1
			1113	710	211	185	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 771	C 486	N 155	O 130	0	0	1
50	DS	99	Total 771	C 486	N 155	O 130	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BT	136	Total 1124	C 699	N 231	O 193	S 1	0	0	1
51	DT	136	Total 1124	C 699	N 231	O 193	S 1	0	0	1

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 58 is ZINC ION (CCD ID: ZN) (formula: Zn).

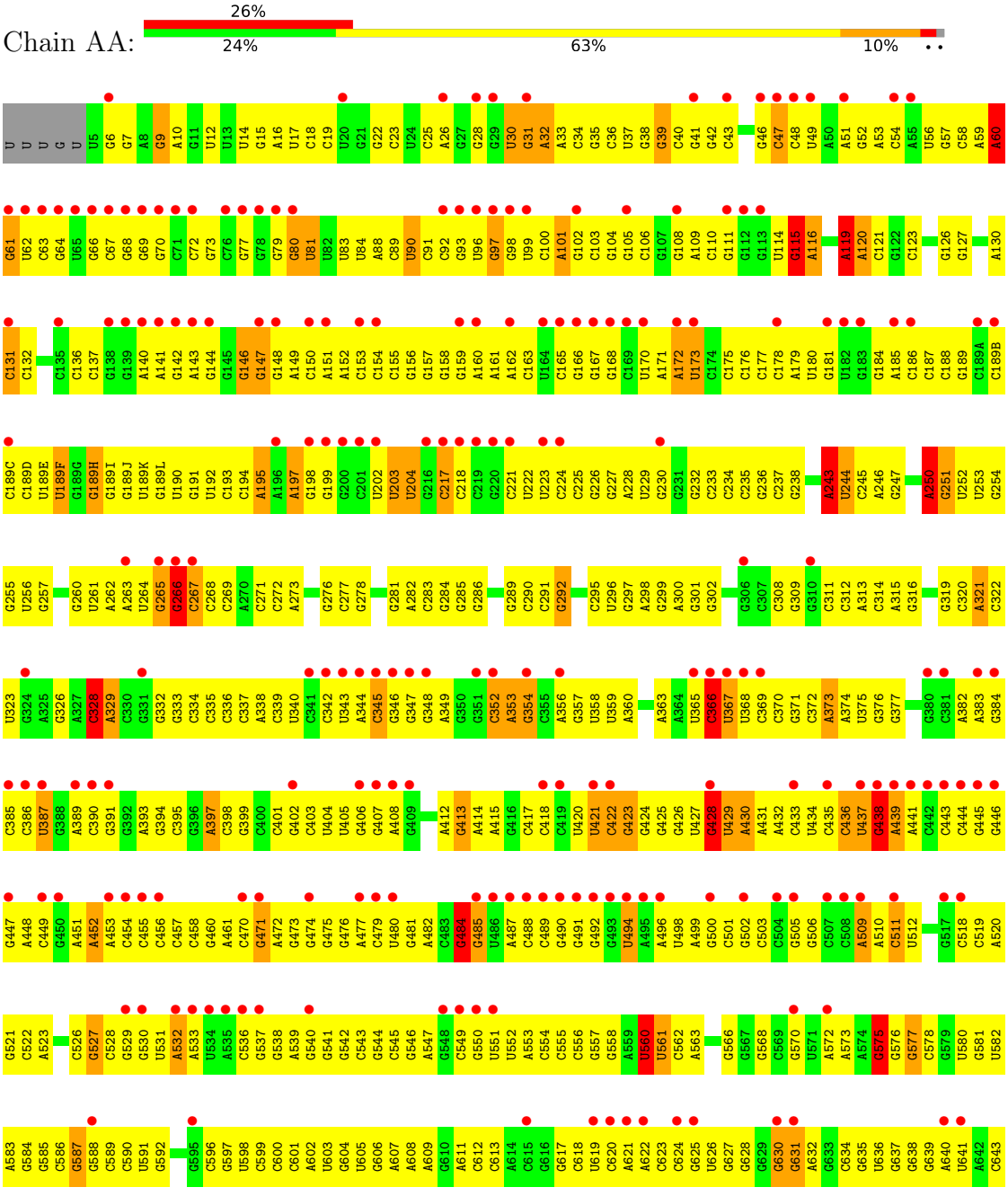
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	AD	1	Total 1	Zn 1	0	0
58	AN	1	Total 1	Zn 1	0	0
58	CD	1	Total 1	Zn 1	0	0
58	CN	1	Total 1	Zn 1	0	0

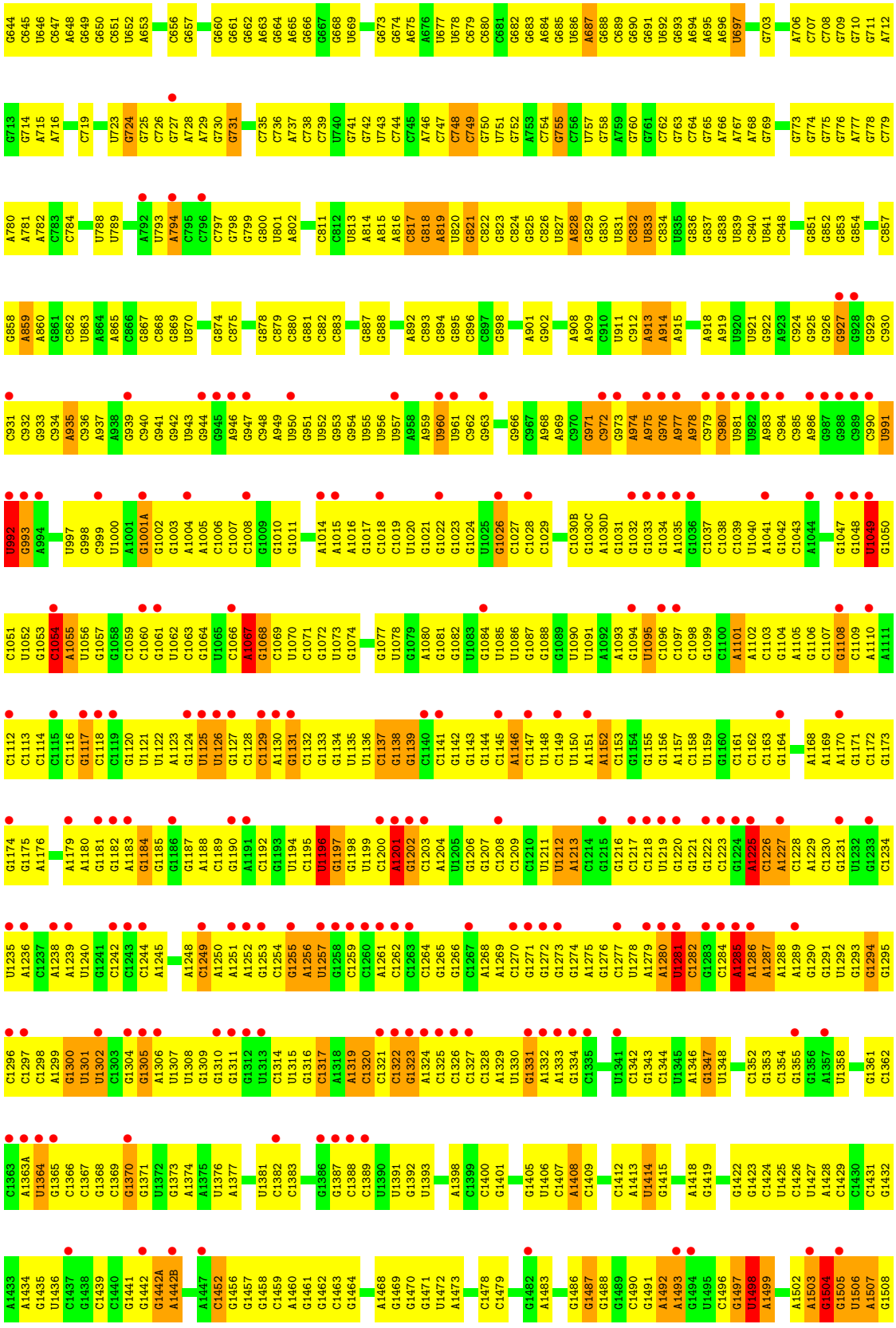
3 Residue-property plots (i)

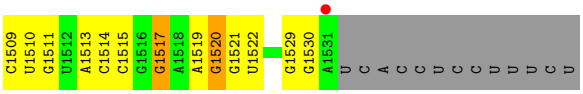
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: 16S RRNA

Chain AA:

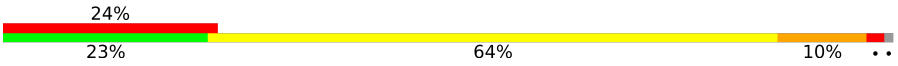


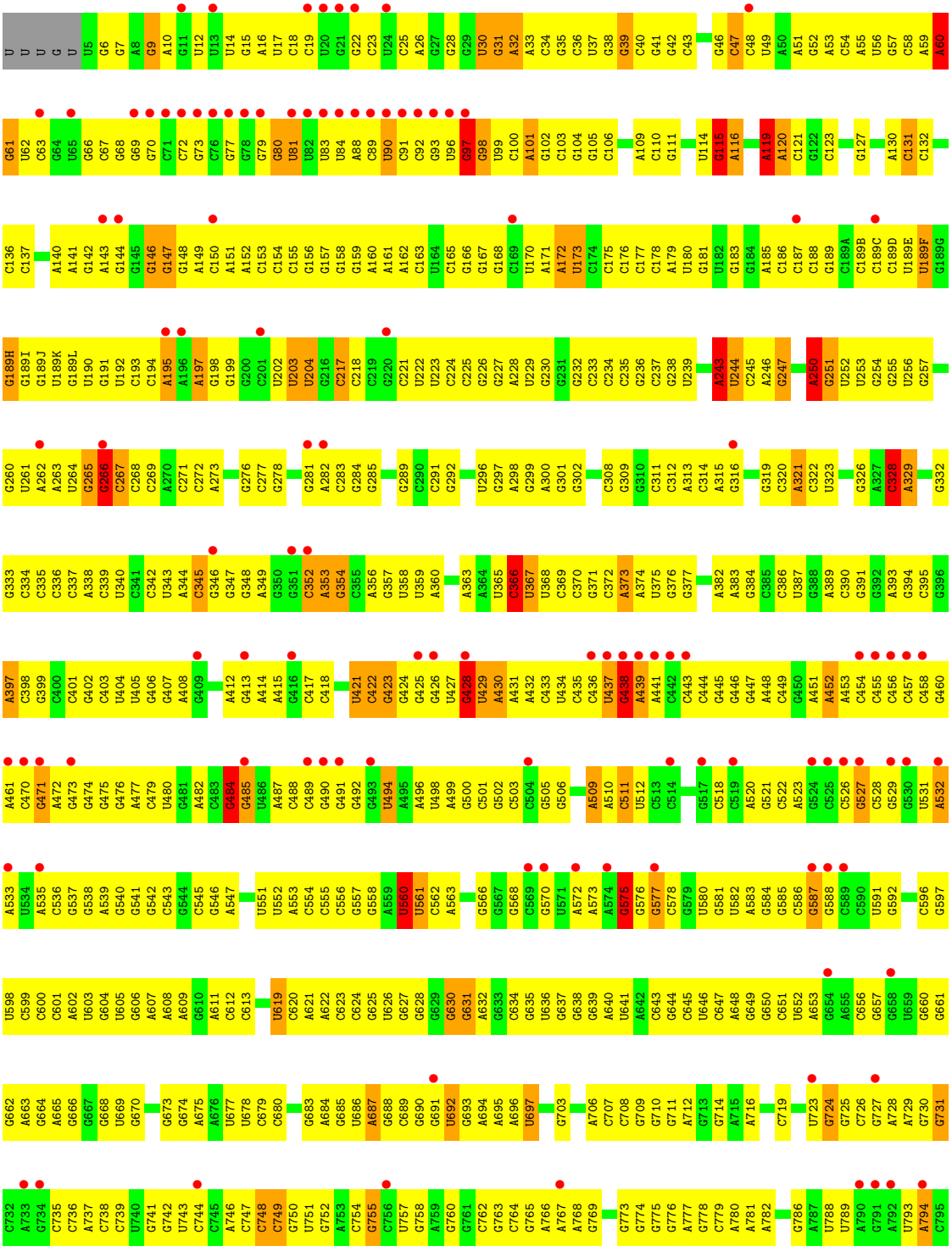

G644 C645 U646 C647 A648 G649 G650 C651 U652 A653 C656 G657 G660 G661 G662 A663 G664 A665 G666 G667 G668 U669 G673 G674 A675 A676 U677 U678 C679 C680 C681 G682 G683 A684 G685 U686 A687 G688 C689 G690 G691 U692 G693 A694 A695 A696 U697 G703 A706 C707 C708 G709 G710 G711 A712
G713 G714 A715 A716 C719 U723 G724 G725 C726 G727 A728 A729 G730 G731 C735 C736 A737 C738 C739 U740 G741 G742 U743 C744 C745 A746 C747 C748 C749 G750 U751 G752 A753 C754 G755 C756 U757 G758 A759 G760 G761 C762 G763 C764 G765 A766 A767 A768 G769 G773 G774 G775 G776 A777 G778 C779
A780 A781 A782 C783 C784 U788 U789 A792 U793 A794 C795 C796 C797 G798 G799 G800 U801 A802 C811 C812 U813 A814 A815 A816 C817 G818 A819 U820 G821 C822 G823 C824 G825 C826 U827 A828 G829 G830 U831 C832 U833 C834 U835 G836 G837 G838 U839 C840 U841 C848 G851 G852 G853 G854 C857
G858 A859 A860 G861 C862 U863 A864 A865 C866 G867 C868 G869 U870 G874 C875 G878 C879 C880 G881 C882 C883 G887 G888 A892 C893 G894 G895 C896 C897 G898 A901 G902 A908 A909 C910 U911 C912 A913 A914 A915 A918 A919 U920 U921 G922 A923 C924 G925 G926 G927 G928 G929 C930
C931 C932 G933 C934 A935 C936 A937 A938 G939 C940 G941 G942 U943 G944 G945 A946 G947 C948 A949 U950 G951 U952 G953 G954 U955 U956 U957 A958 A959 U960 U961 C962 G963 G966 C967 A968 A969 C970 G971 C972 G973 A974 A975 G976 A977 A978 C979 C980 U981 U982 A983 C984 C985 A986 G987 G988 C989 C990 U991
U992 G993 A994 U997 G998 C999 U1000 A1001 G1001A G1002 G1003 A1004 A1005 C1006 C1007 C1008 G1009 G1010 G1011 A1014 A1015 A1016 G1017 C1018 C1019 U1020 G1021 G1022 G1023 G1024 U1025 G1026 C1027 C1028 C1029 C1030B G1030C A1030D G1031 G1032 G1033 G1034 A1035 G1036 C1037 C1038 C1039 U1040 A1041 G1042 C1043 A1044 G1047 G1048 U1049 G1050
C1051 U1052 G1053 C1054 A1055 U1056 G1057 G1058 C1059 C1060 G1061 U1062 C1063 G1064 U1065 C1066 A1067 G1068 C1069 U1070 C1071 G1072 U1073 G1074 G1077 U1078 G1079 A1080 G1081 G1082 U1083 G1084 U1085 U1086 G1087 G1088 G1089 U1090 U1091 A1092 A1093 G1094 U1095 C1096 C1097 C1098 G1099 C1100 A1101 A1102 C1103 G1104 A1105 G1106 C1107 G1108 C1109 A1110 A1111
C1112 C1113 C1114 C1115 C1116 G1117 C1118 C1119 G1120 U1121 U1122 A1123 G1124 U1125 U1126 G1127 C1128 C1129 A1130 G1131 C1132 G1133 G1134 U1135 U1136 C1137 G1138 G1139 C1140 C1141 G1142 G1143 G1144 C1145 A1146 C1147 U1148 G1149 U1150 A1151 A1152 C1153 G1154 G1155 G1156 A1157 C1158 U1159 G1160 C1161 C1162 C1163 G1164 A1168 A1169 A1170 G1171 C1172 G1173
G1174 G1175 A1176 A1179 A1180 G1181 G1182 A1183 G1184 G1185 G1186 G1187 A1188 C1189 G1190 A1191 C1192 G1193 U1194 C1195 U1196 G1197 G1198 U1199 C1200 A1201 G1202 C1203 A1204 U1205 G1206 G1207 C1208 C1209 C1210 U1211 U1212 A1213 C1214 G1215 G1216 C1217 C1218 U1219 G1220 G1221 G1222 G1223 G1224 A1225 C1226 A1227 C1228 A1229 C1230 G1231 U1232 G1233 C1234
U1235 A1236 C1237 A1238 A1239 U1240 G1241 C1242 C1243 C1244 A1245 A1248 C1249 A1250 A1251 A1252 G1253 C1254 G1255 A1256 U1257 G1258 C1259 C1260 A1261 C1262 C1263 C1264 G1265 G1266 C1267 A1268 A1269 C1270 G1271 G1272 G1273 G1274 A1275 G1276 C1277 U1278 A1279 A1280 U1281 C1282 G1283 C1284 A1285 A1286 A1287 A1288 A1289 G1290 G1291 U1292 G1293 G1294 G1295
C1296 C1297 C1298 A1299 G1300 U1301 U1302 C1303 G1304 G1305 A1306 U1307 U1308 G1309 G1310 G1311 G1312 U1313 C1314 U1315 G1316 C1317 A1318 A1319 C1320 C1321 C1322 G1323 A1324 C1325 C1326 C1327 C1328 A1329 U1330 G1331 A1332 A1333 G1334 C1335 U1341 C1342 G1343 C1344 U1345 A1346 G1347 U1348 C1352 G1353 C1354 G1355 G1356 A1357 U1358 G1361 C1362
C1363 A1363A U1364 G1365 C1366 C1367 G1368 C1369 G1370 G1371 U1372 G1373 A1374 A1375 U1376 A1377 U1381 C1382 C1383 G1386 G1387 C1388 C1389 U1390 U1391 G1392 U1393 A1398 C1399 C1400 G1401 G1405 U1406 C1407 A1408 C1409 C1412 A1413 U1414 G1415 A1418 G1419 G1422 G1423 C1424 U1425 C1426 U1427 A1428 C1429 C1430 C1431 G1432
A1433 A1434 G1435 U1436 C1437 G1438 C1439 C1440 G1441 G1442 G1442A A1442B A1447 C1452 G1456 G1457 G1458 C1459 A1460 G1461 G1462 C1463 G1464 A1468 G1469 G1470 G1471 U1472 A1473 C1478 C1479 G1482 A1483 G1486 G1487 G1488 G1489 C1490 G1491 A1492 A1493 G1494 U1495 C1496 G1497 U1498 A1499 A1502 A1503 G1504 G1505 U1506 A1507 G1508

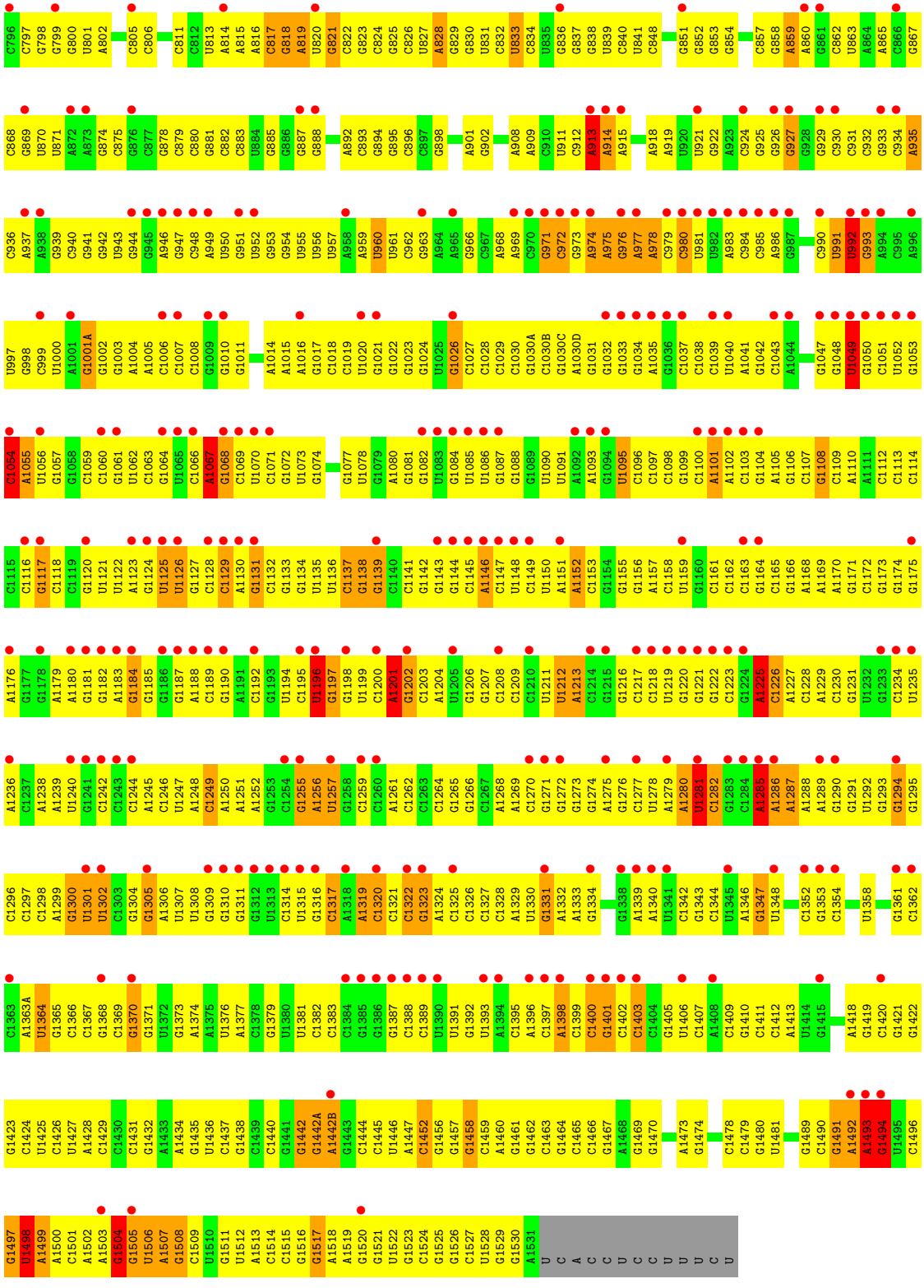


• Molecule 1: 16S RRNA

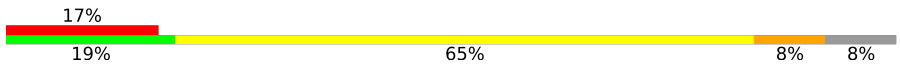
Chain CA:

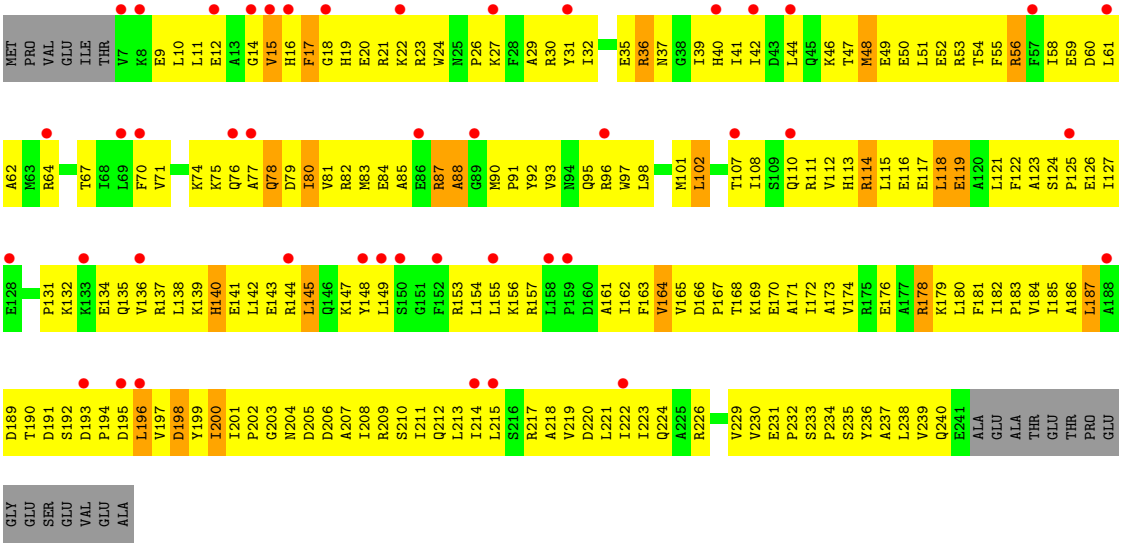






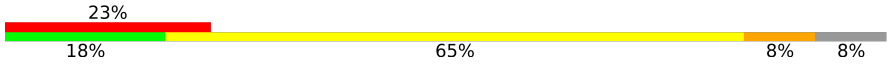
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

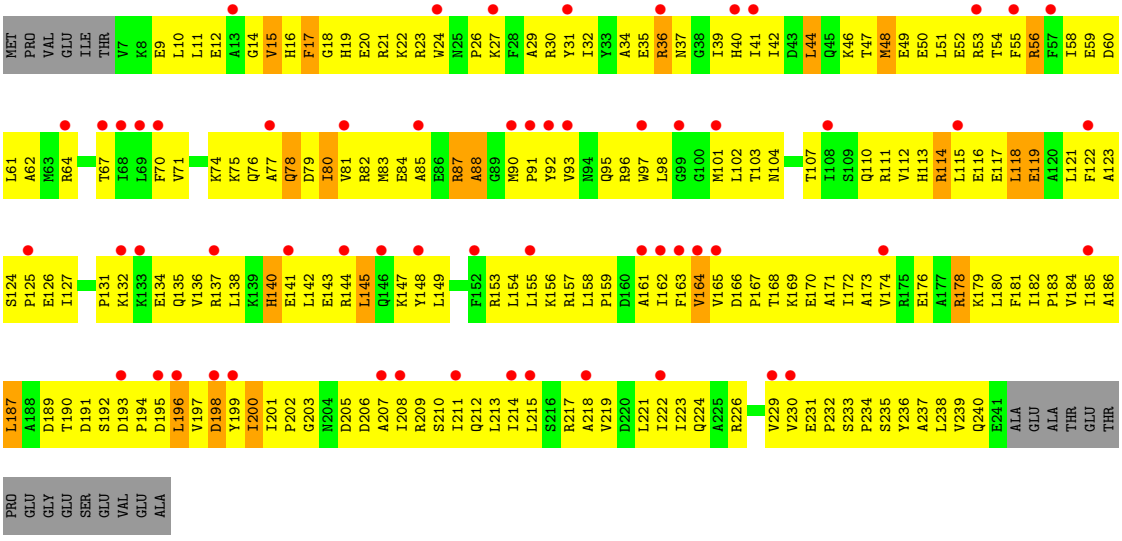




• Molecule 2: 30S RIBOSOMAL PROTEIN S2

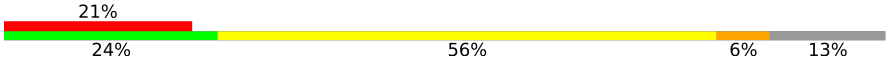
Chain CB:

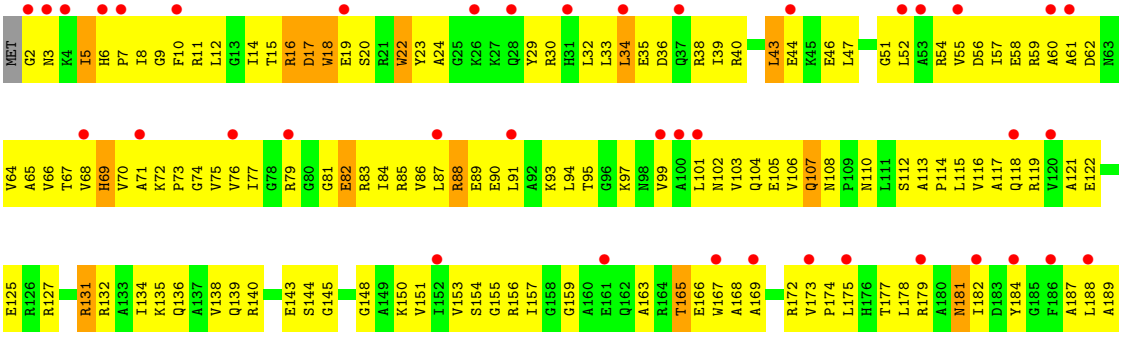


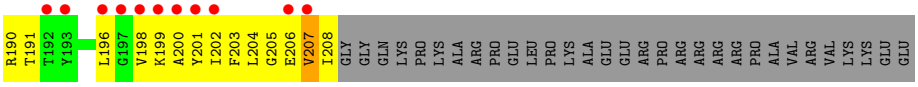


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

Chain AC:

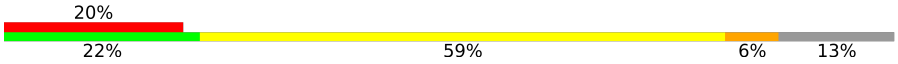


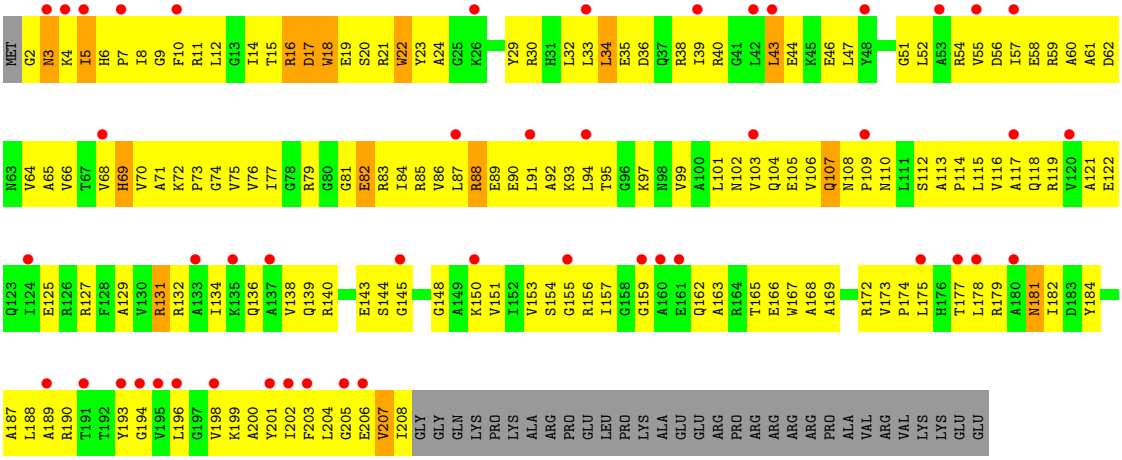




• Molecule 3: 30S RIBOSOMAL PROTEIN S3

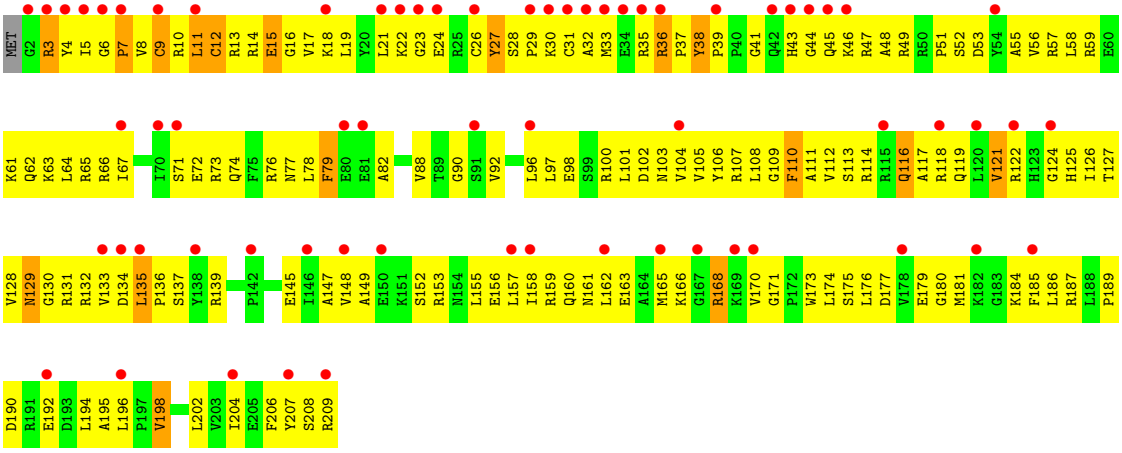
Chain CC:





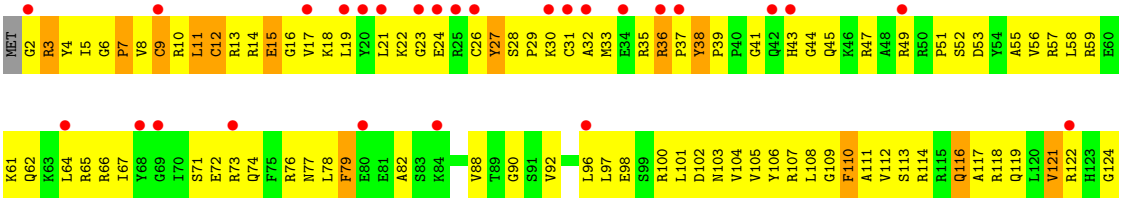
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

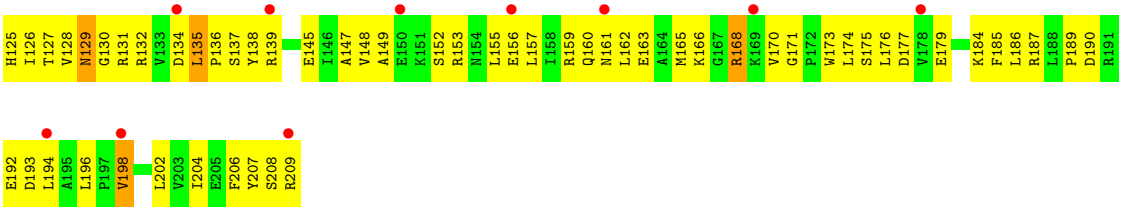
Chain AD:



• Molecule 4: 30S RIBOSOMAL PROTEIN S4

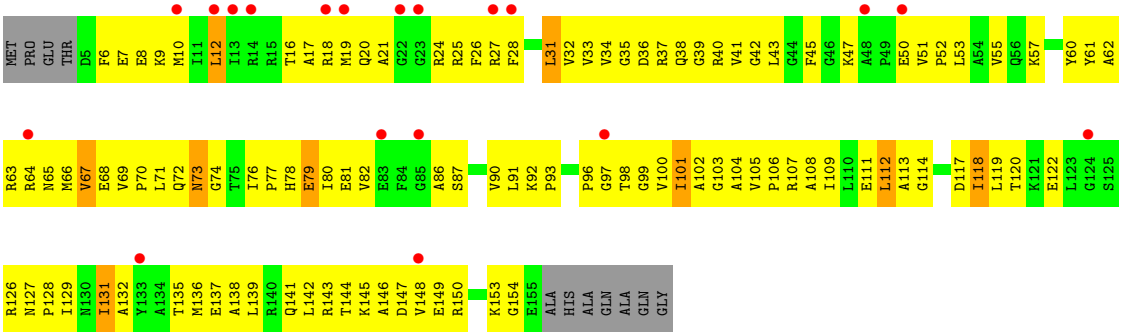
Chain CD:





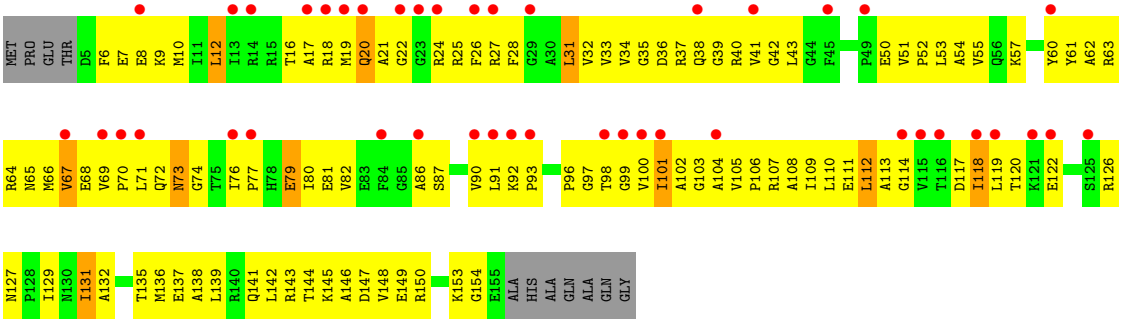
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain AE:



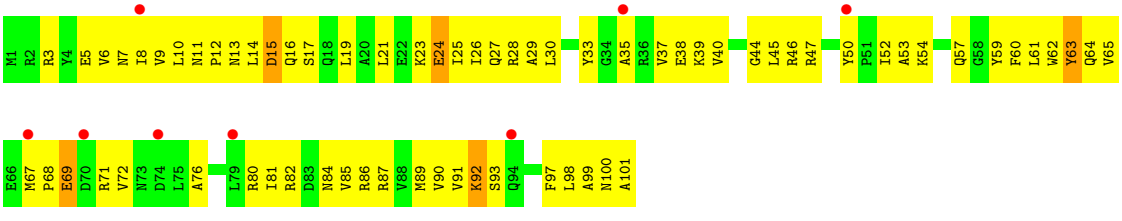
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain CE:



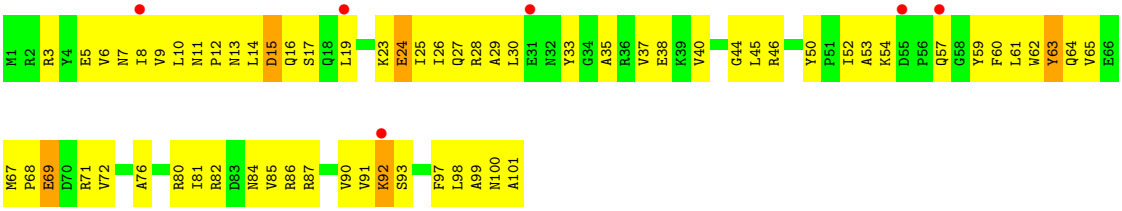
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AF:

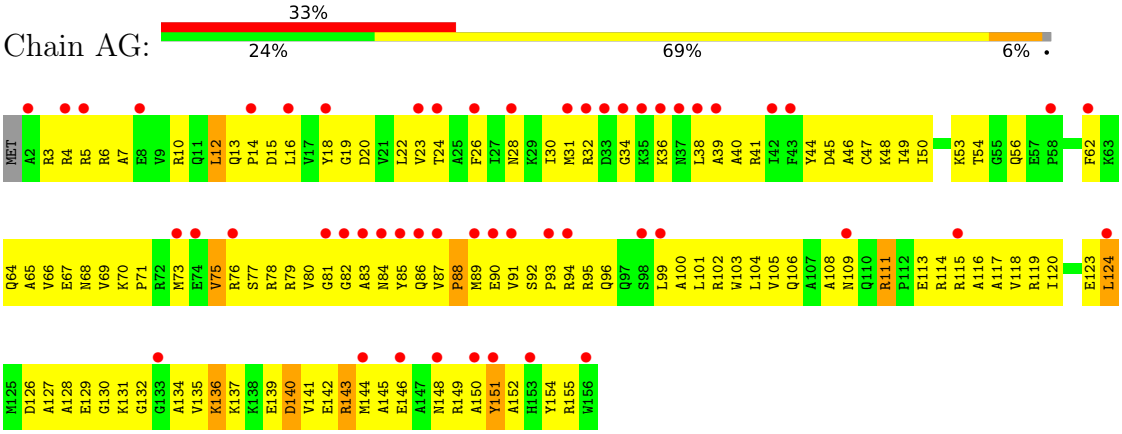


• Molecule 6: 30S RIBOSOMAL PROTEIN S6

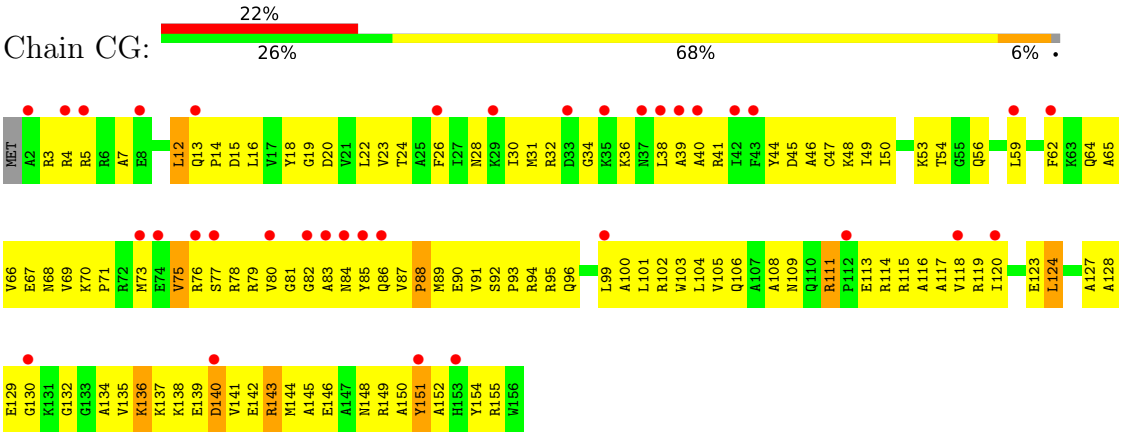
Chain CF:



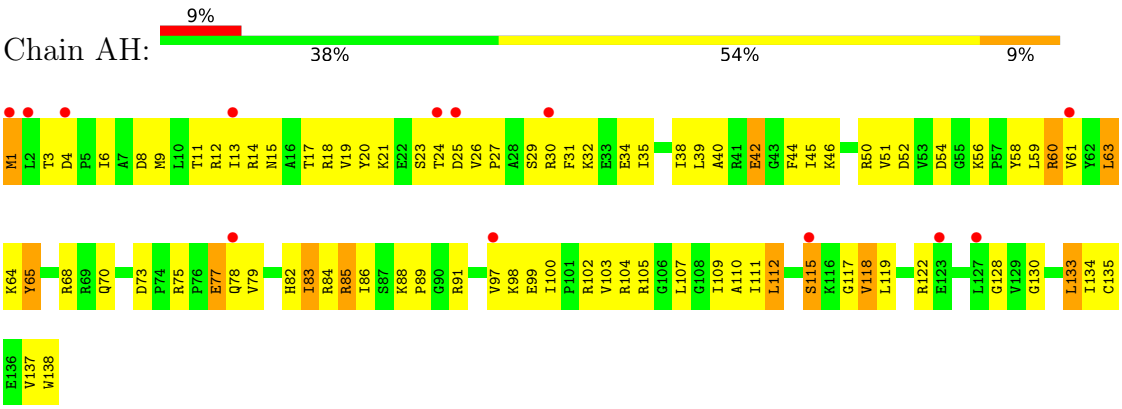
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



• Molecule 7: 30S RIBOSOMAL PROTEIN S7

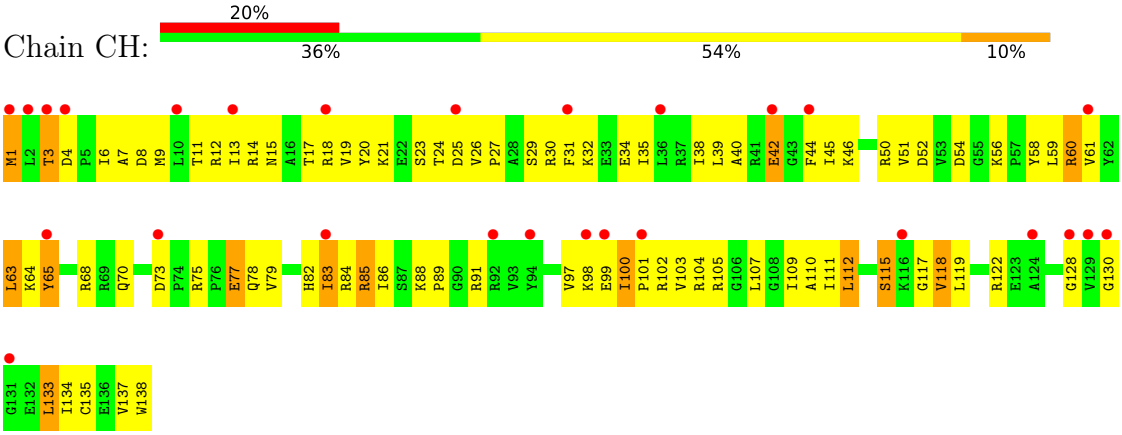


• Molecule 8: 30S RIBOSOMAL PROTEIN S8



• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain CH:



• Molecule 9: 30S RIBOSOMAL PROTEIN S9

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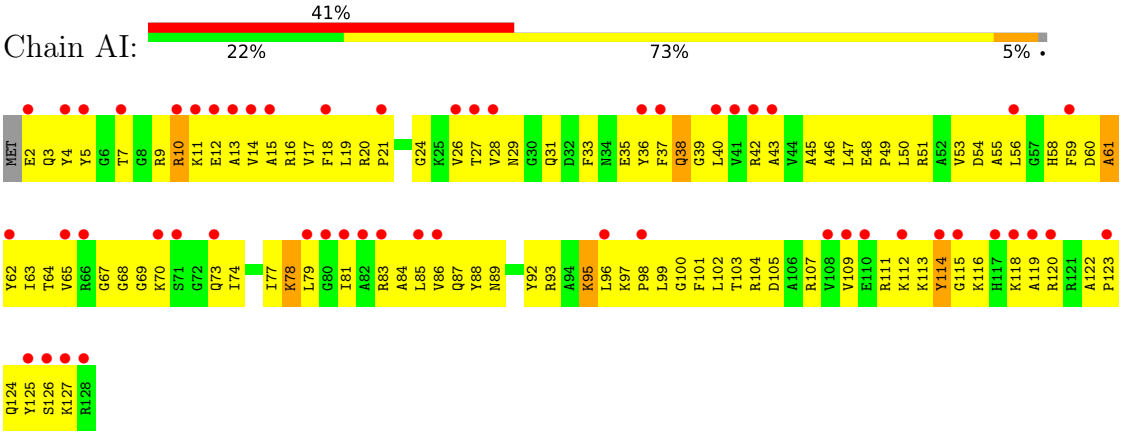
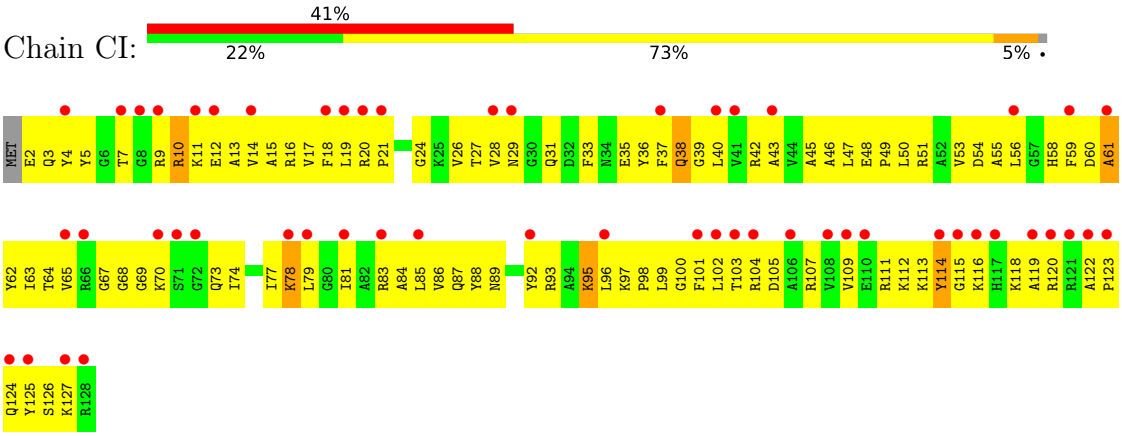


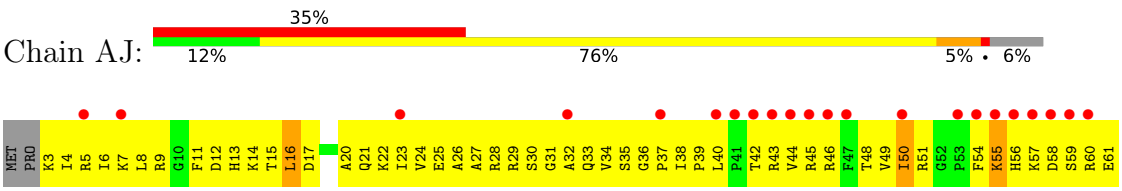
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

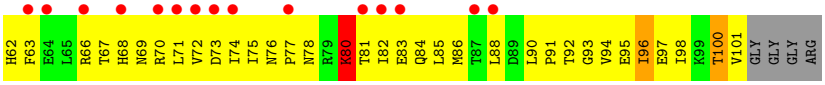
Chain CI:



• Molecule 10: 30S RIBOSOMAL PROTEIN S10

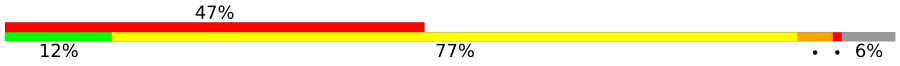
Chain AJ:

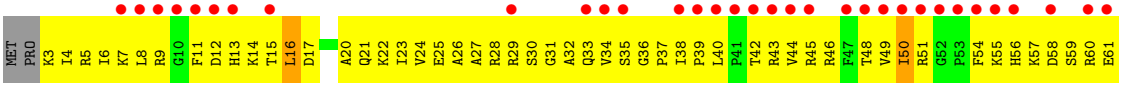


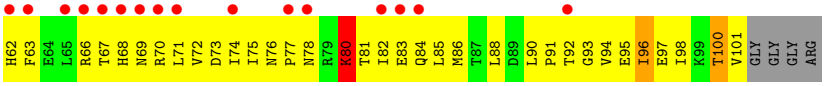


• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain CJ:

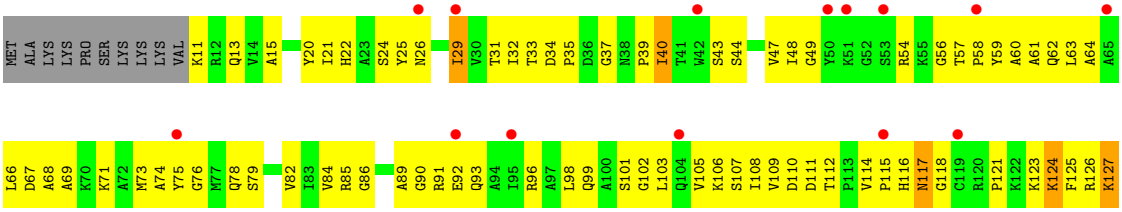






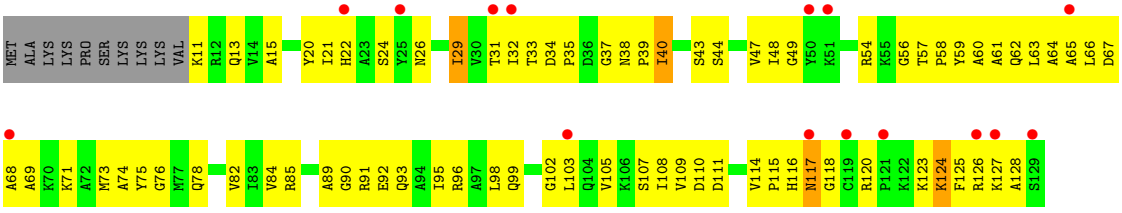
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain AK:



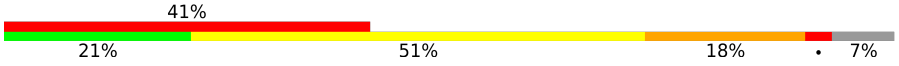
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

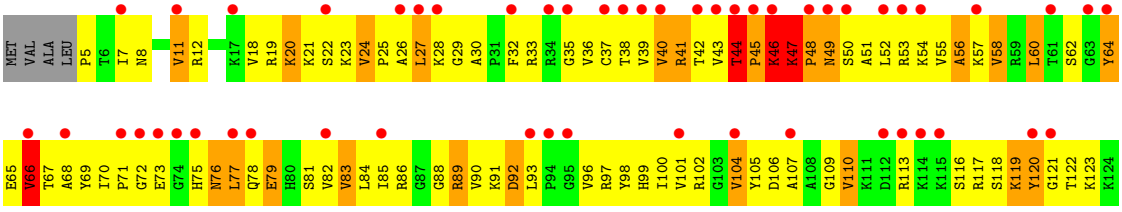
Chain CK:

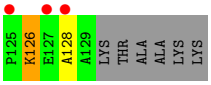


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

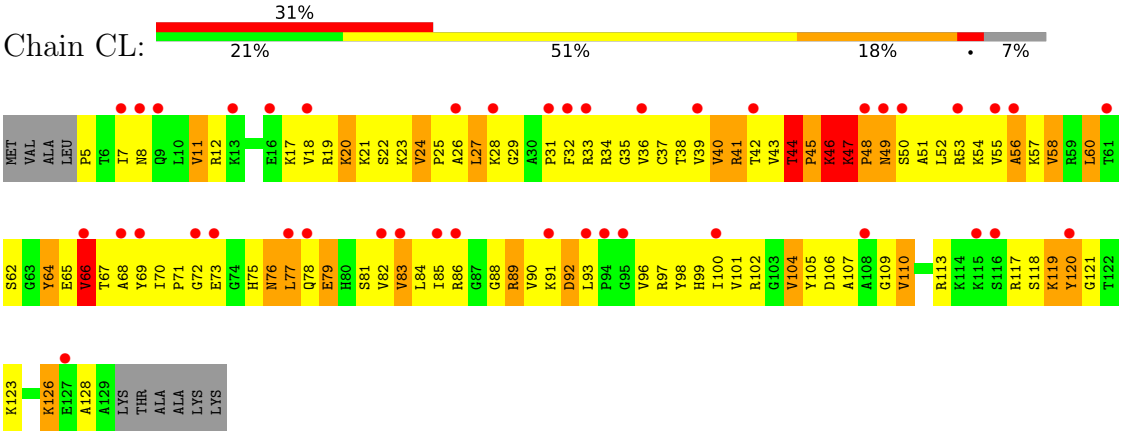
Chain AL:



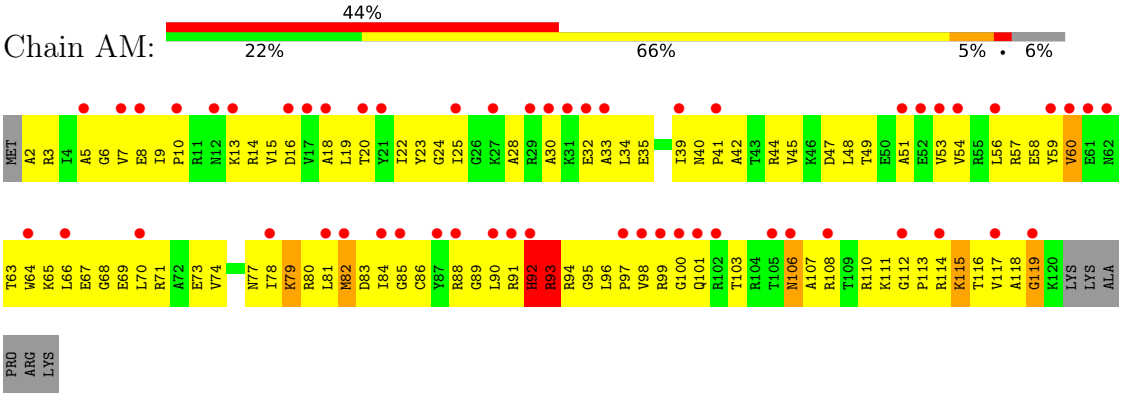




• Molecule 12: 30S RIBOSOMAL PROTEIN S12



• Molecule 13: 30S RIBOSOMAL PROTEIN S13



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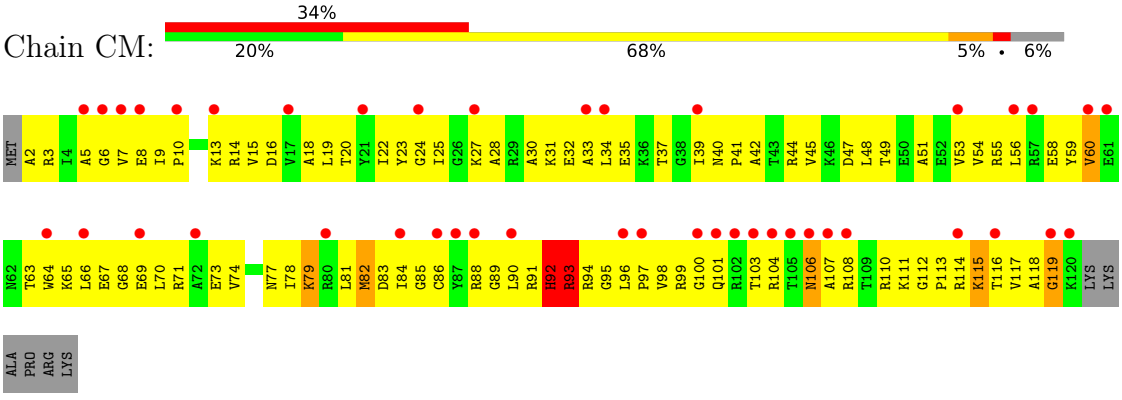
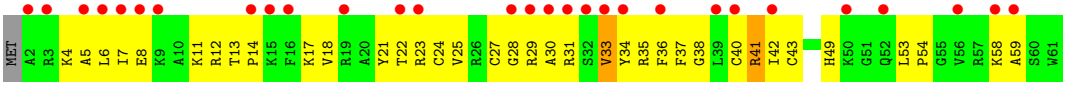
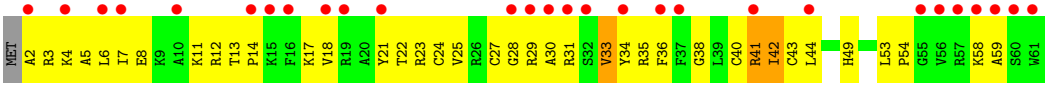


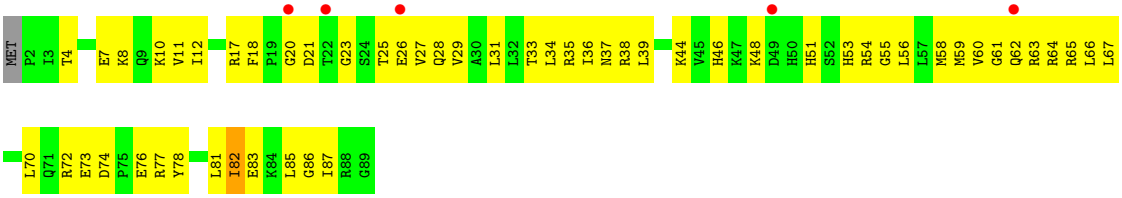
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



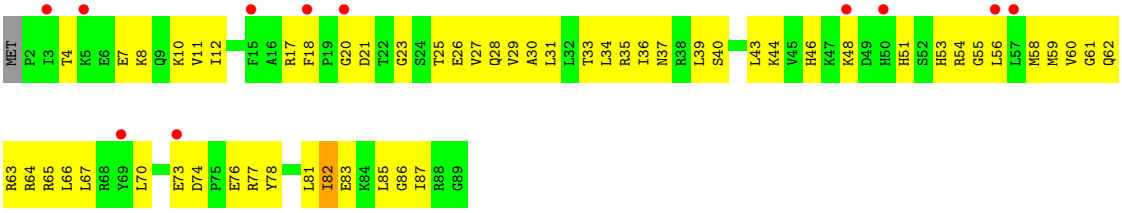
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



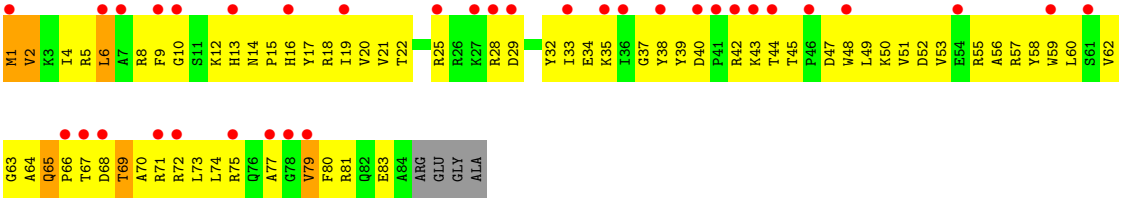
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



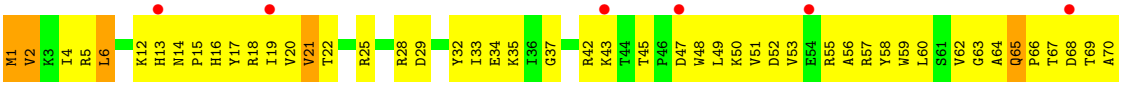
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

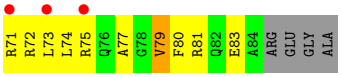


• Molecule 16: 30S RIBOSOMAL PROTEIN S16



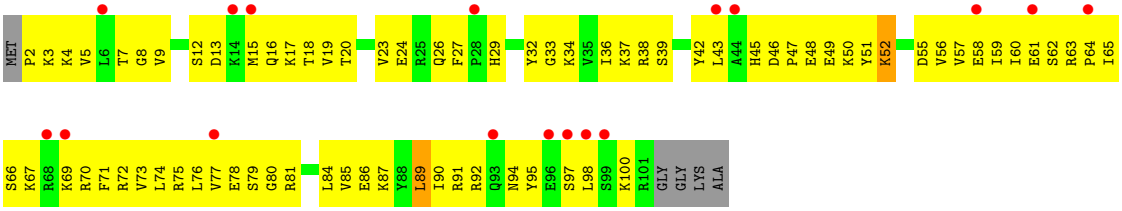
• Molecule 16: 30S RIBOSOMAL PROTEIN S16





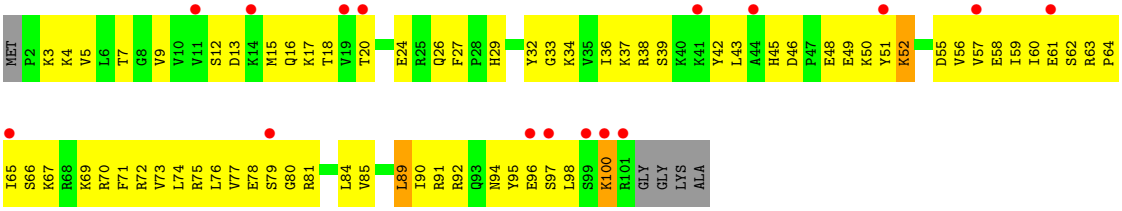
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ:



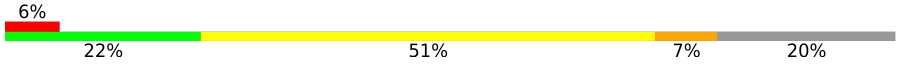
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

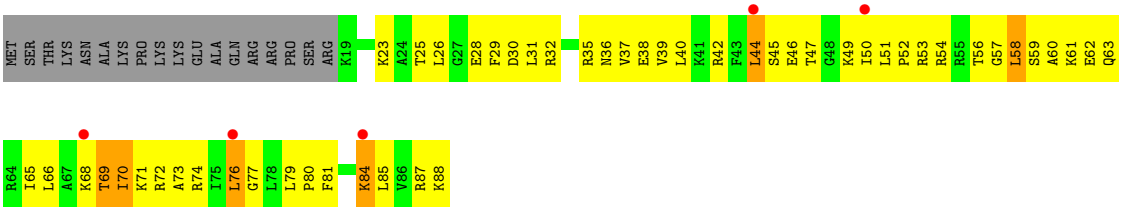
Chain CQ:



• Molecule 18: 30S RIBOSOMAL PROTEIN S18

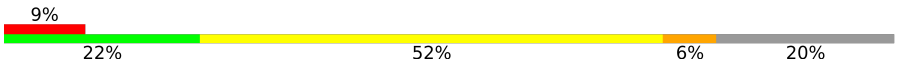
Chain AR:

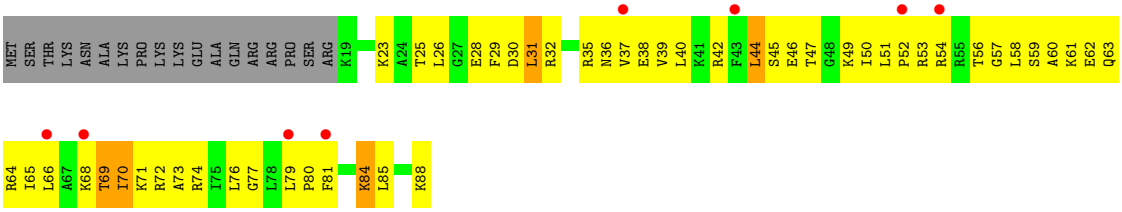




• Molecule 18: 30S RIBOSOMAL PROTEIN S18

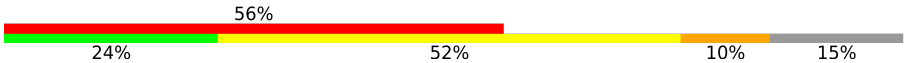
Chain CR:

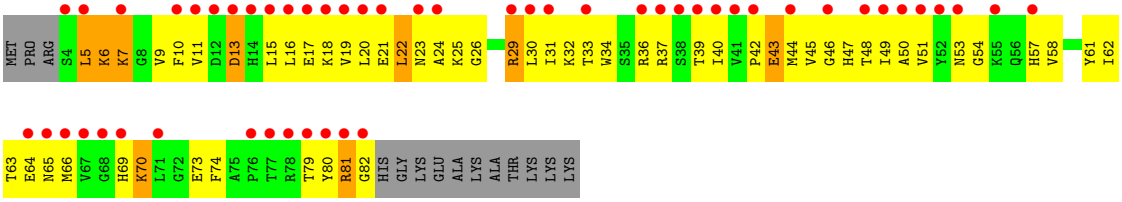




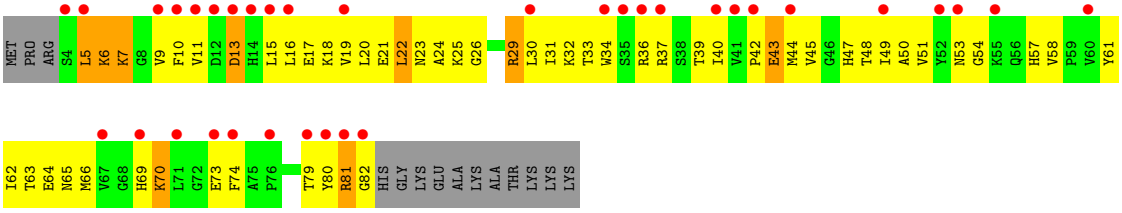
• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS:

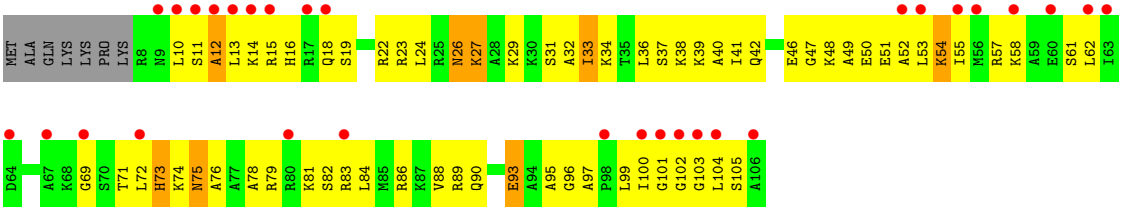




• Molecule 19: 30S RIBOSOMAL PROTEIN S19



• Molecule 20: 30S RIBOSOMAL PROTEIN S20



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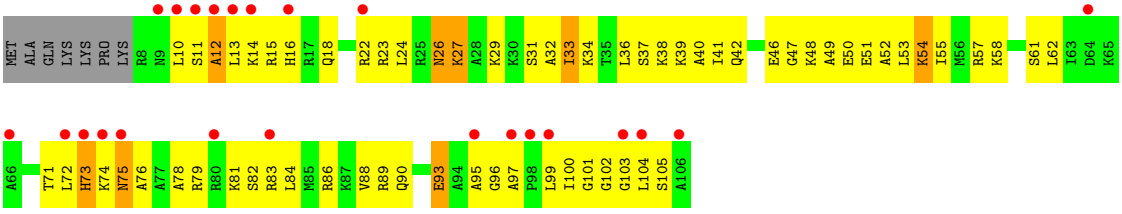
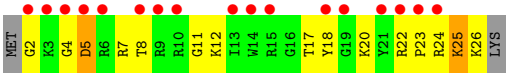
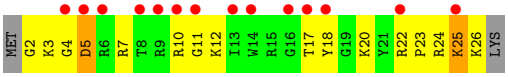


• Molecule 21: 30S RIBOSOMAL PROTEIN THX

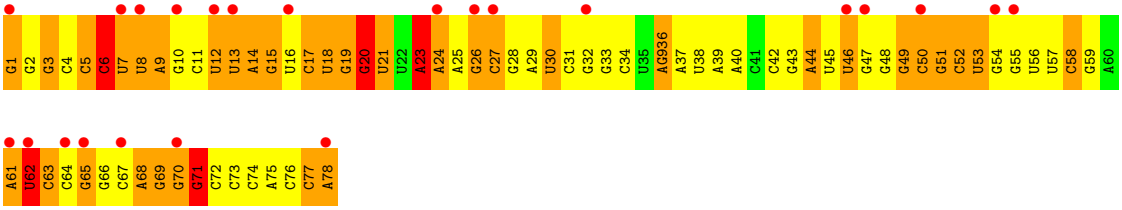


• Molecule 21: 30S RIBOSOMAL PROTEIN THX



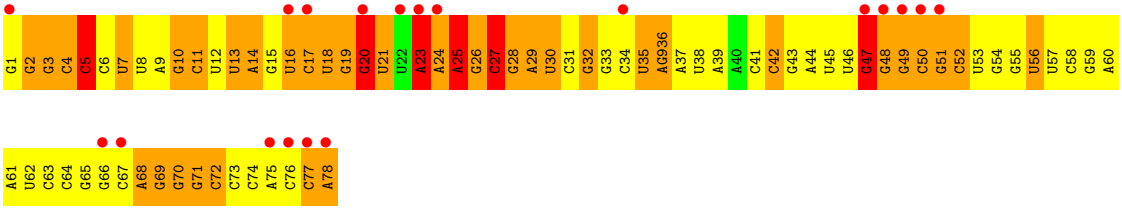
• Molecule 22: E-SITE TRNA ILE2 AGMATIDINE OR P-SITE TRNA ILE2 AGMATIDINE

Chain AV:



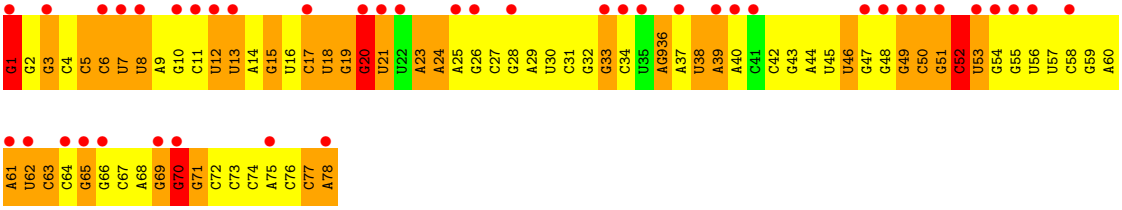
• Molecule 22: E-SITE TRNA ILE2 AGMATIDINE OR P-SITE TRNA ILE2 AGMATIDINE

Chain AY:



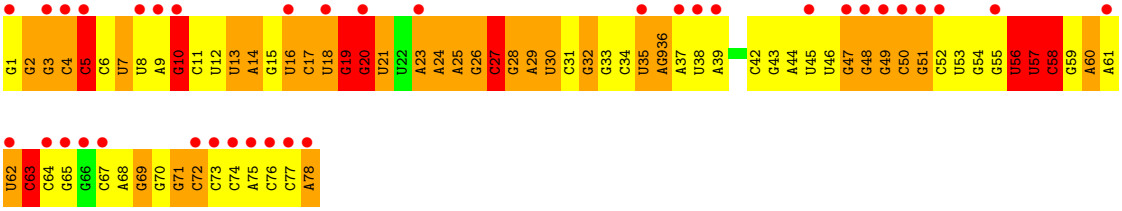
• Molecule 22: E-SITE TRNA ILE2 AGMATIDINE OR P-SITE TRNA ILE2 AGMATIDINE

Chain CV:



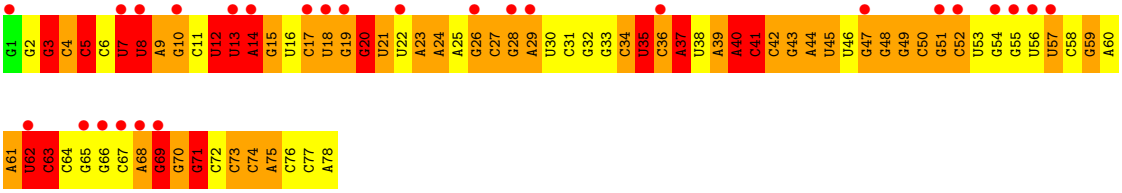
• Molecule 22: E-SITE TRNA ILE2 AGMATIDINE OR P-SITE TRNA ILE2 AGMATIDINE

Chain CY:

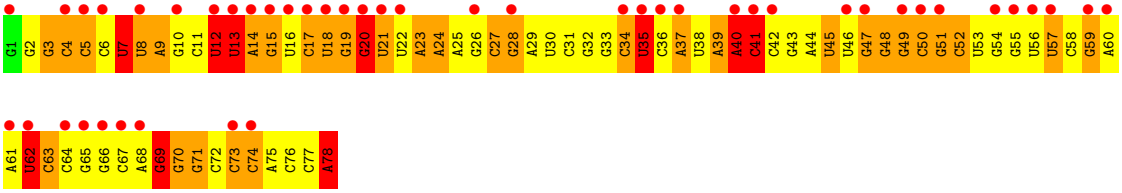


• Molecule 23: A-SITE TRNA ILE2 AGMATIDINE

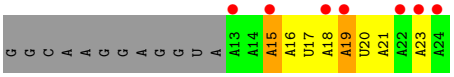
Chain AW:



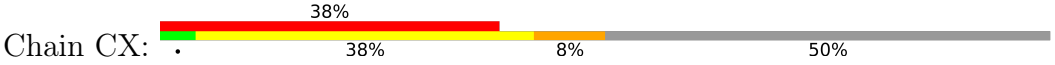
• Molecule 23: A-SITE TRNA ILE2 AGMATIDINE

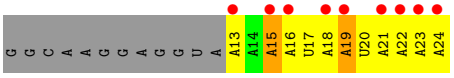


• Molecule 24: MRNA

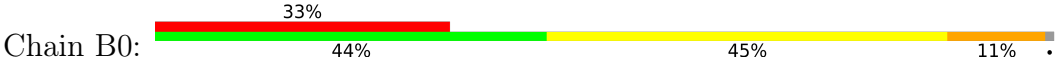


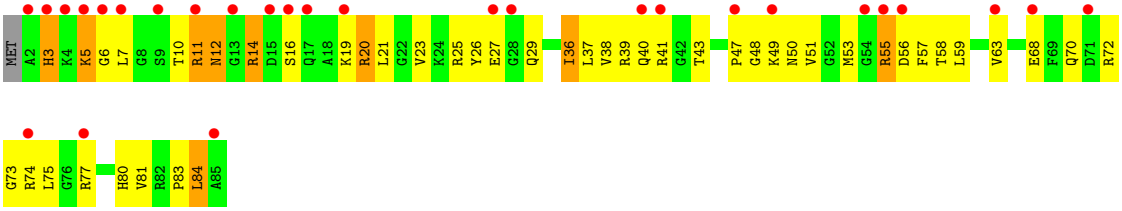
• Molecule 24: MRNA



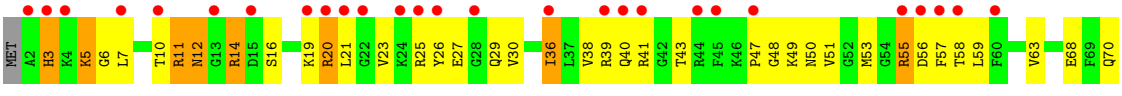


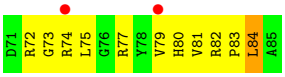
• Molecule 25: 50S RIBOSOMAL PROTEIN L27





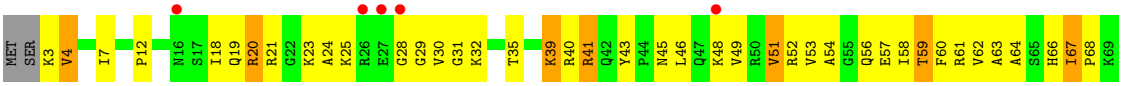
• Molecule 25: 50S RIBOSOMAL PROTEIN L27

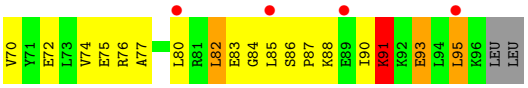




• Molecule 26: 50S RIBOSOMAL PROTEIN L28

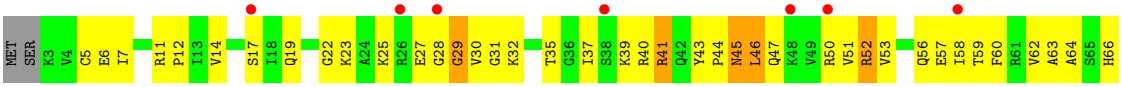
Chain B1:

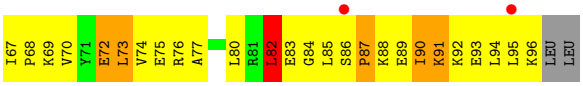




• Molecule 26: 50S RIBOSOMAL PROTEIN L28

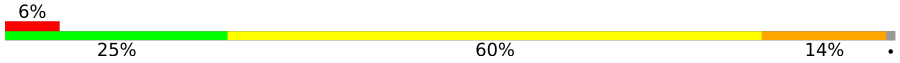
Chain D1:

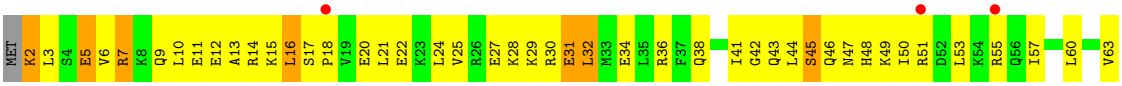


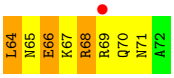


• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain B2:

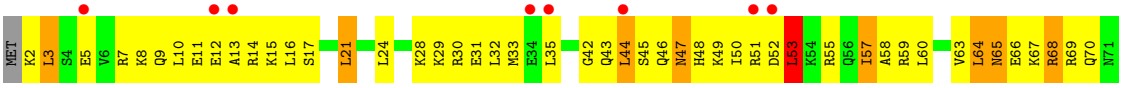






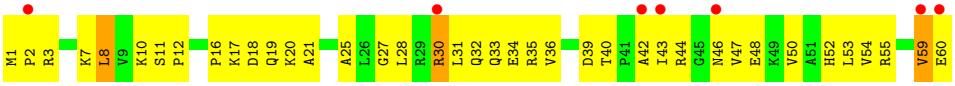
• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain D2:



• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain B3:

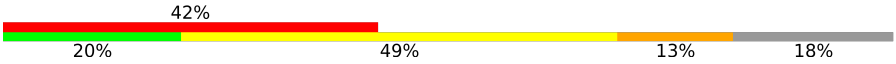


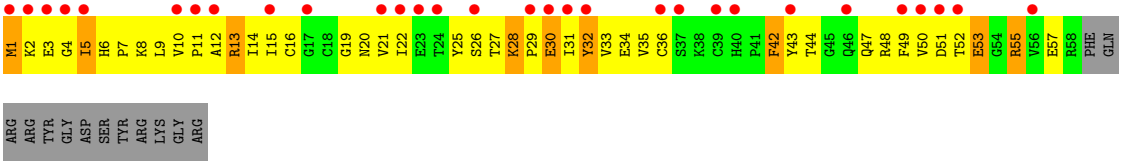
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain D3:

• Molecule 29: 50S RIBOSOMAL PROTEIN L31

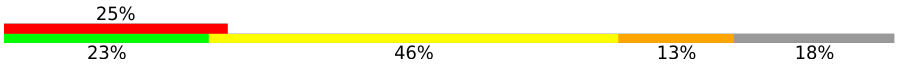
Chain B4:

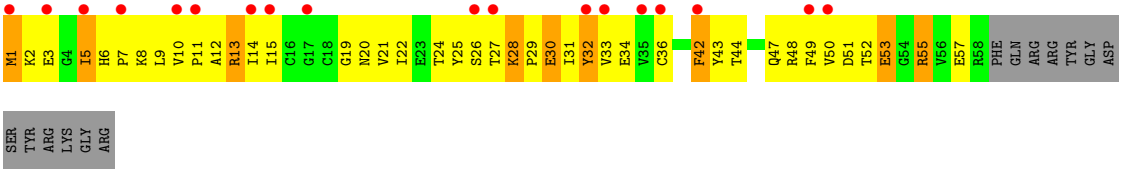




• Molecule 29: 50S RIBOSOMAL PROTEIN L31

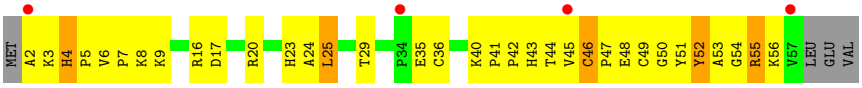
Chain D4:





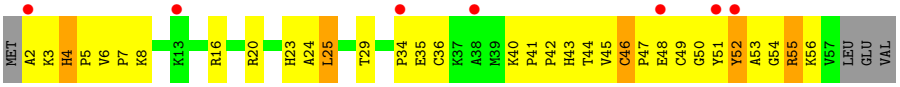
• Molecule 30: 50S RIBOSOMAL PROTEIN L32

Chain B5:



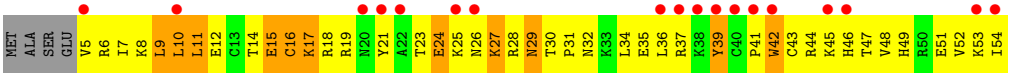
• Molecule 30: 50S RIBOSOMAL PROTEIN L32

Chain D5:



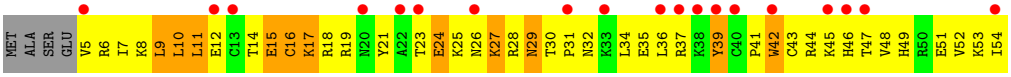
• Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain B6:



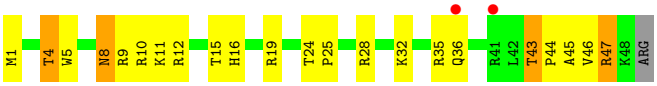
• Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain D6:



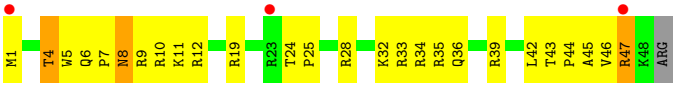
• Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain B7:



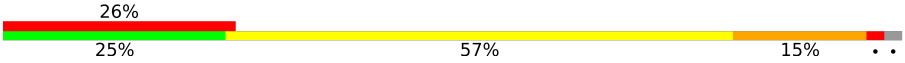
• Molecule 32: 50S RIBOSOMAL PROTEIN L34

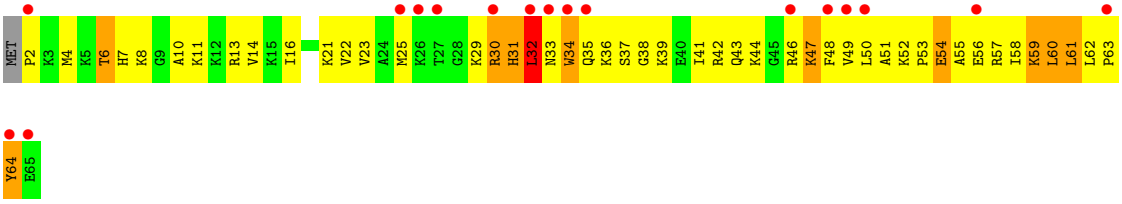
Chain D7:



• Molecule 33: 50S RIBOSOMAL PROTEIN L35

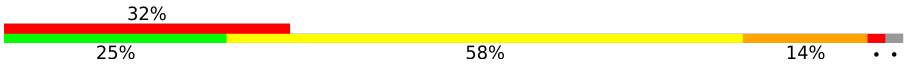
Chain B8:

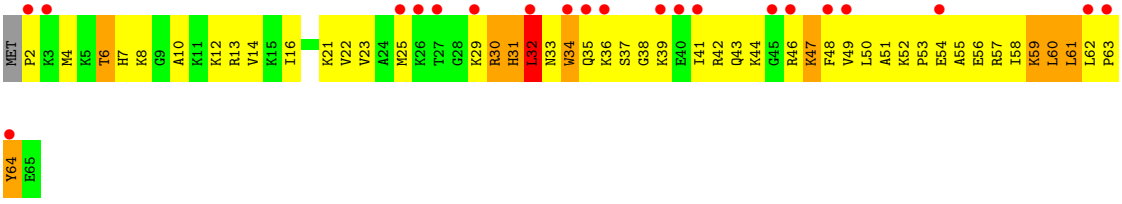




• Molecule 33: 50S RIBOSOMAL PROTEIN L35

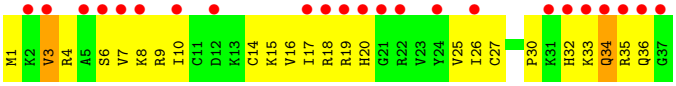
Chain D8:





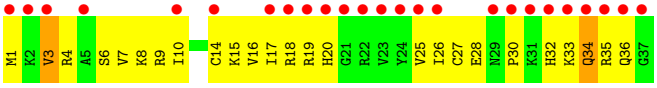
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

Chain B9:



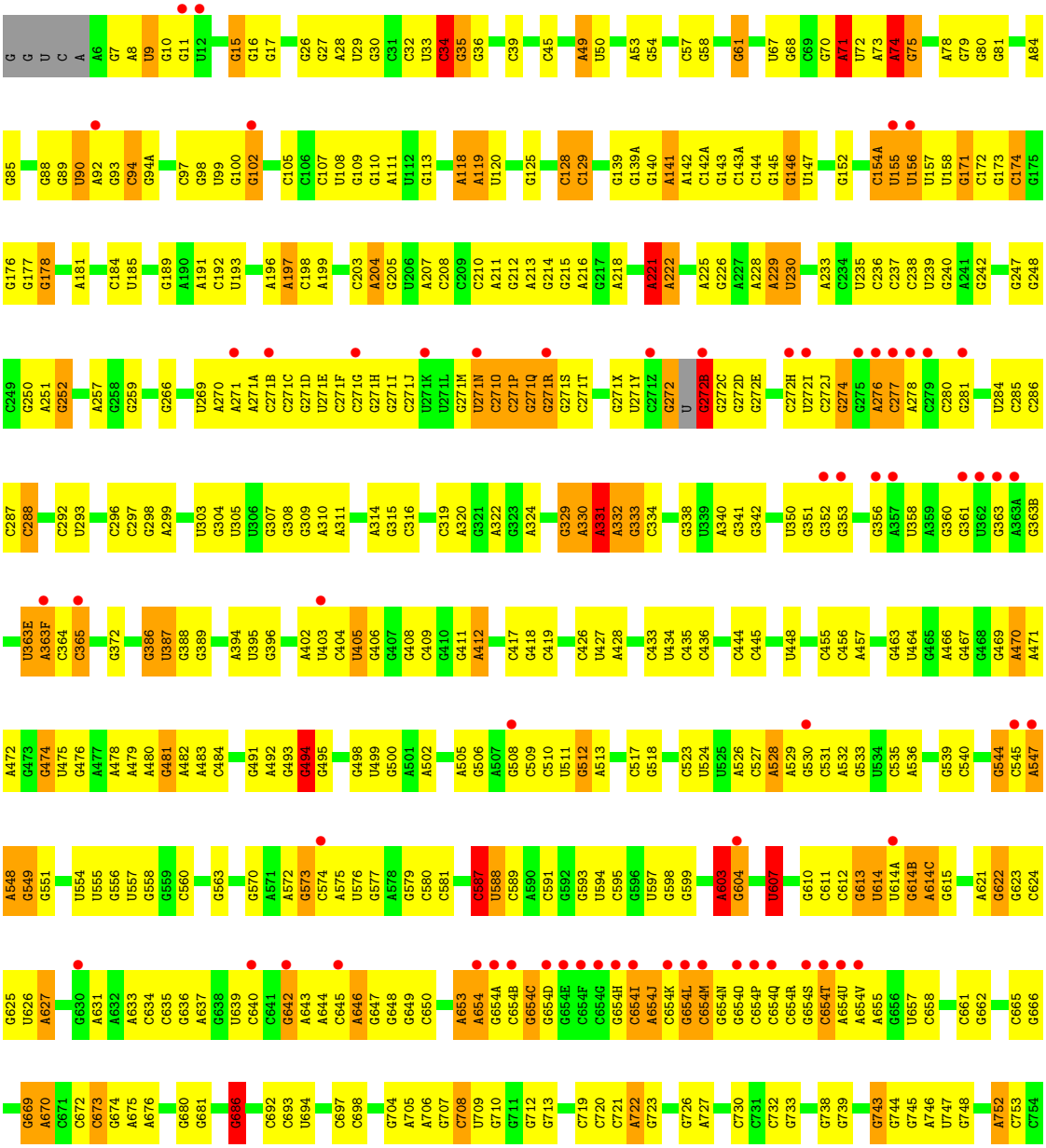
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

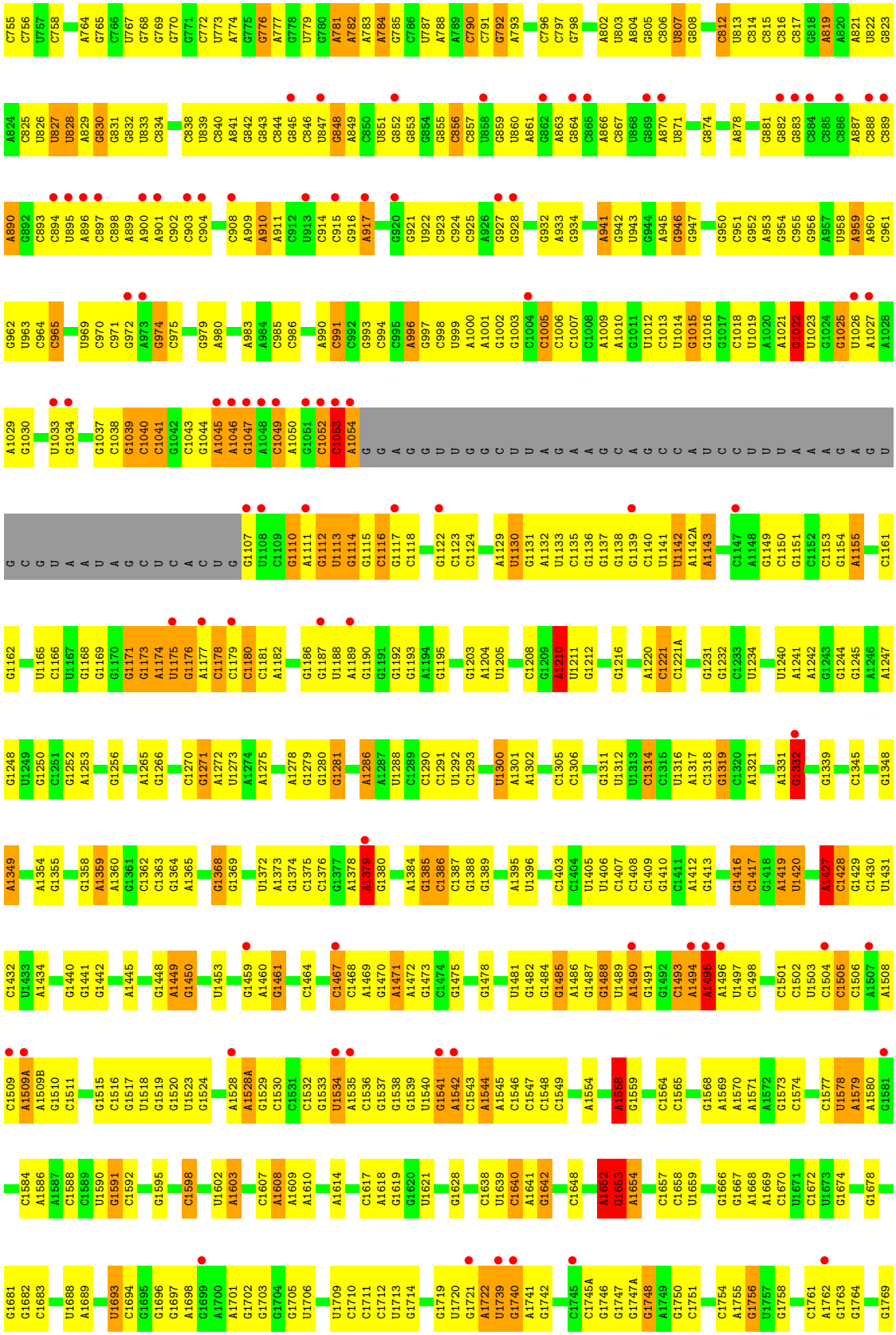
Chain D9:



• Molecule 35: 23S RIBOSOMAL RNA

Chain BA:

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A824 C825 U826 U827 U828 A829 G830 G831 G832 U833 C834 C838 U839 C840 A841 G842 G843 C844 G845 C846 U847 G848 A849 C850 U851 G852 G853 G854 G855 C856 C857 U858 G859 U860 A861 G862 A863 G864 C865 A866 C867 U868 G869 A870 U871 G874 A878 G881 G882 G883 C884 C885 C886 A887 C888 C889
A890 G892 C893 C894 U895 A896 C897 C898 A899 A900 A901 C902 C903 C904 C908 A909 A910 A911 C912 U913 C914 C915 A916 A917 G920 G921 U922 C923 C924 C925 A926 G927 G928 G932 A933 G934 A941 G942 U943 G944 A945 G946 G947 G950 C951 G952 A953 G954 C955 G956 A957 U958 A959 A960 C961
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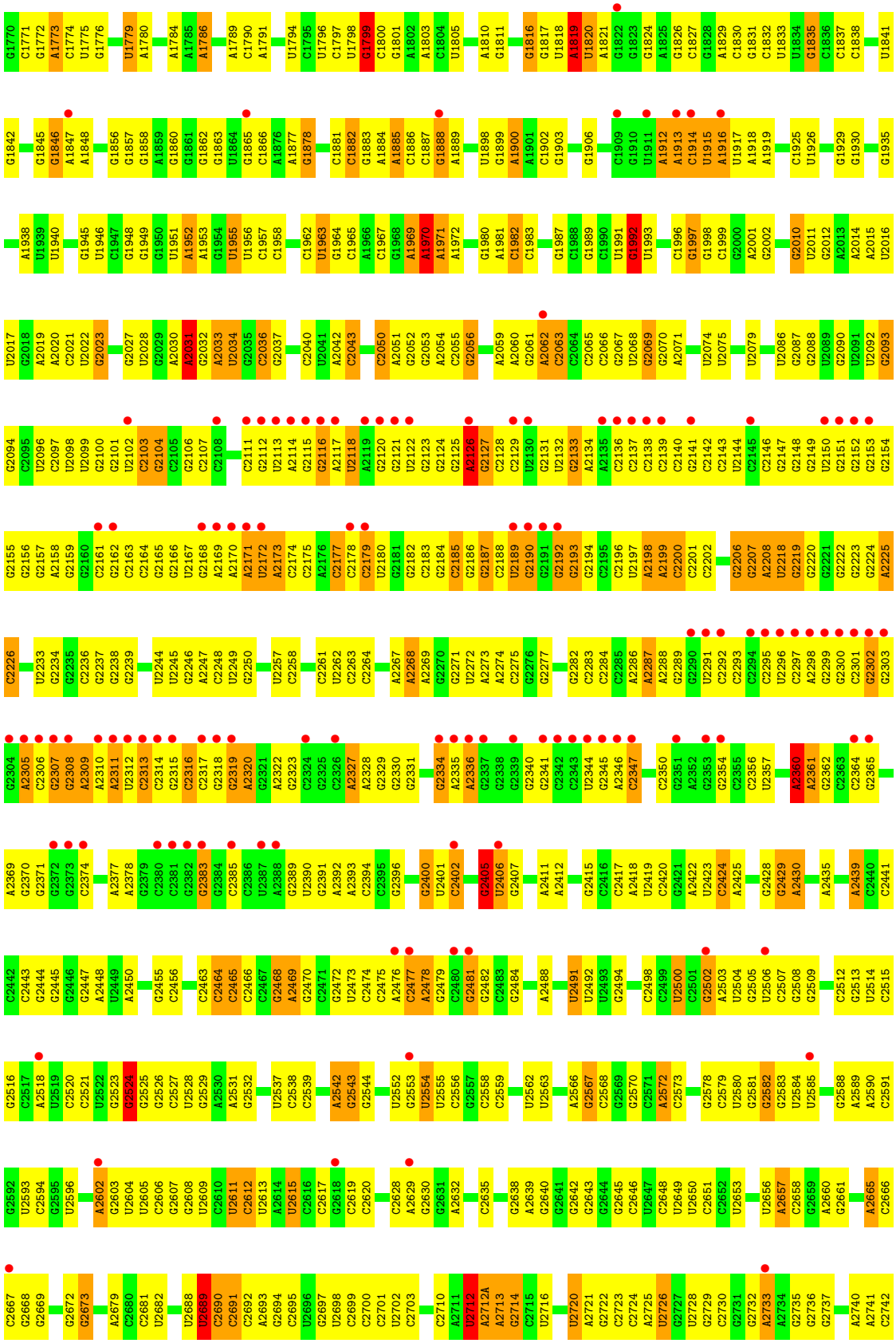
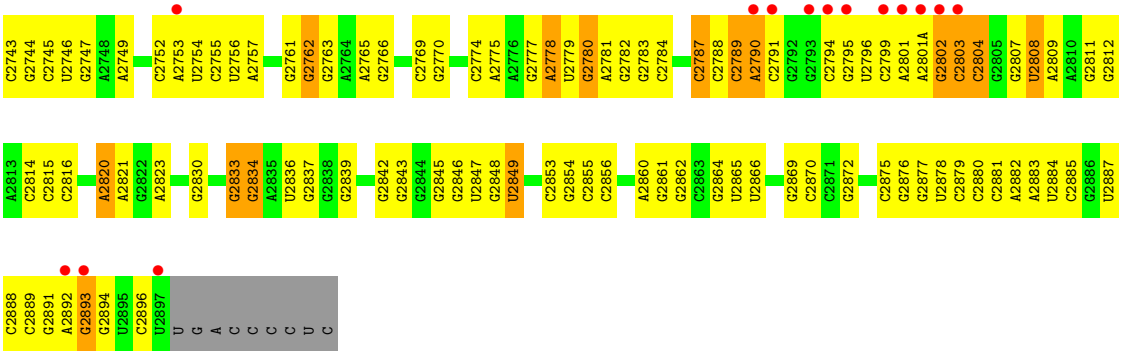
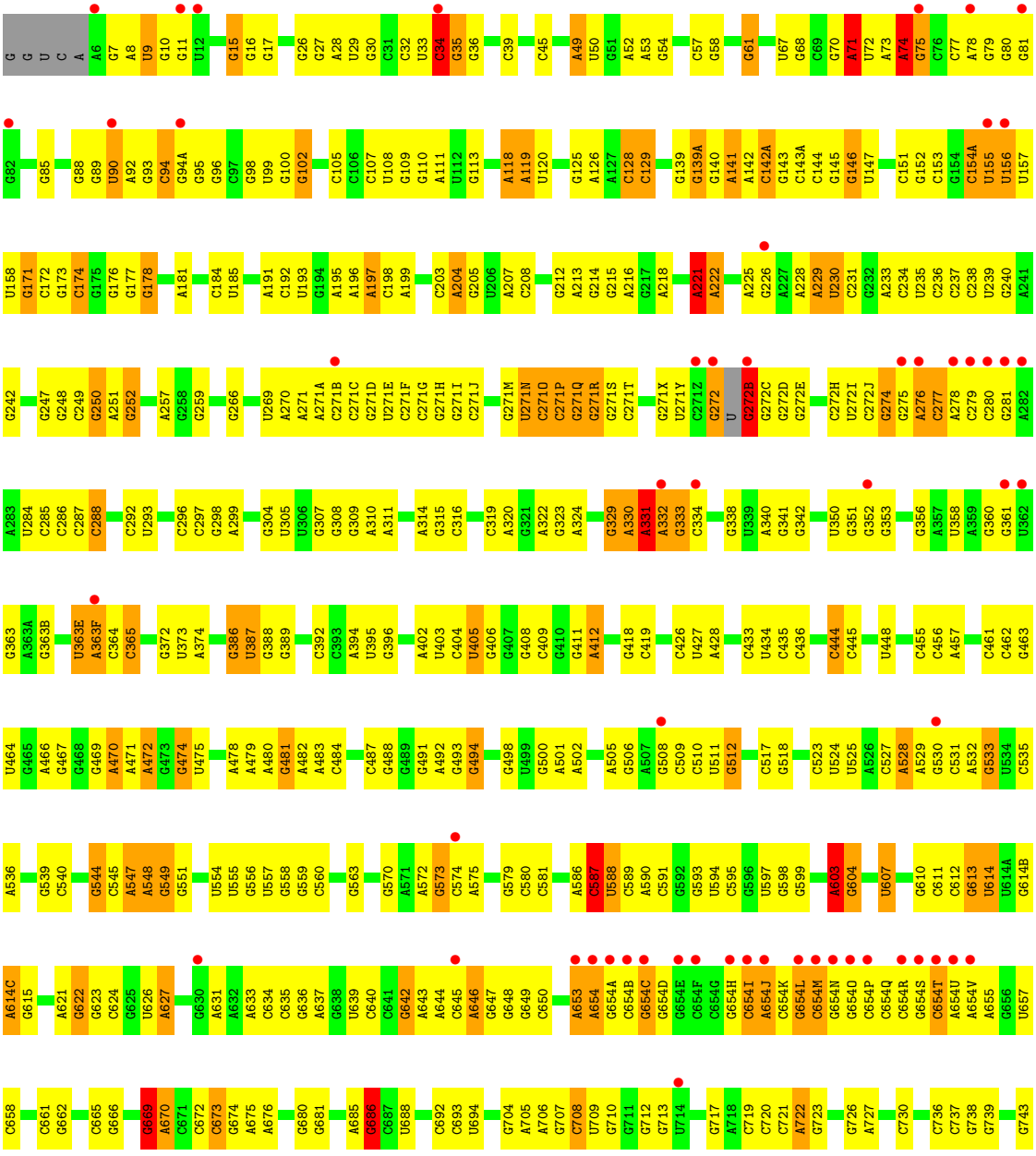
G1162 U1165 C1166 U1167 G1168 G1169 G1170 G1171 G1173 A1174 U1175 G1176 A1177 C1178 C1179 C1180 C1181 A1182 G1186 G1187 U1188 A1189 G1190 G1191 G1192 G1193 A1194 G1195 G1203 A1204 U1205 C1208 G1209 A1210 U1211 G1212 G1216 A1220 C1221 C1221A G1231 G1232 C1233 U1234 U1240 A1241 A1242 G1243 G1244 G1245 A1246 A1247
G1248 U1249 G1250 C1251 G1252 A1253 G1256 A1265 G1266 C1270 G1271 A1272 U1273 A1274 A1275 A1278 G1279 G1280 G1281 A1286 A1287 U1288 C1289 C1290 C1291 U1292 C1293 U1300 A1301 A1302 C1305 C1306 G1311 U1312 U1313 C1314 C1315 U1316 A1317 C1318 G1319 C1320 A1321 A1331 G1332 G1339 C1345 G1348
A1349 A1354 G1355 G1358 A1359 A1360 G1361 C1362 C1363 G1364 A1365 G1368 G1369 U1372 A1373 G1374 C1375 C1376 G1377 A1378 A1379 G1380 A1384 G1385 C1386 C1387 G1388 G1389 A1395 U1396 C1403 C1404 U1405 U1406 C1407 C1408 C1409 G1410 C1411 A1412 G1413 G1416 C1417 G1418 A1419 U1420 A1427 C1428 G1429 C1430 U1431
C1432 U1433 A1434 G1440 G1441 G1442 A1445 G1448 A1449 G1450 U1453 G1459 A1460 G1461 C1464 C1467 C1468 A1469 G1470 A1471 A1472 G1473 C1474 G1475 G1478 U1481 G1482 G1484 G1485 A1486 G1487 G1488 U1489 A1490 G1491 G1492 C1493 A1494 A1495 A1496 U1497 C1498 C1501 C1502 U1503 C1504 C1505 C1506 A1507 A1508
C1509 A1509A A1509B G1510 C1511 G1515 C1516 G1517 U1518 G1519 G1520 U1523 G1524 A1528 A1528A G1529 C1530 C1531 C1532 G1533 U1534 A1535 C1536 G1537 G1538 G1539 U1540 G1541 A1542 C1543 A1544 A1545 C1546 C1547 C1548 C1549 A1554 A1558 G1559 C1564 C1565 G1568 A1569 A1570 A1571 A1572 G1573 C1574 C1577 U1578 A1579 A1580 G1581
C1584 A1586 A1587 C1588 C1589 U1590 G1591 C1592 G1595 C1598 U1602 A1603 C1607 A1608 A1609 A1610 A1614 C1617 A1618 G1619 G1620 U1621 G1628 C1638 U1639 C1640 A1641 G1642 C1648 A1652 G1653 A1654 C1657 C1658 U1659 G1666 G1667 A1668 A1669 C1670 U1671 C1672 U1673 G1674 G1678
G1681 G1682 C1683 U1688 A1689 U1693 C1694 G1695 G1696 G1697 A1698 G1699 A1700 A1701 G1702 G1703 G1704 A1705 U1706 U1709 C1710 C1711 C1712 U1713 G1714 G1719 U1720 G1721 A1722 U1739 G1740 A1741 G1742 C1745 C1745A G1746 G1747 G1747A G1748 A1749 G1750 C1751 C1754 A1755 G1756 U1757 G1758 C1761 A1762 G1763 G1764 G1769

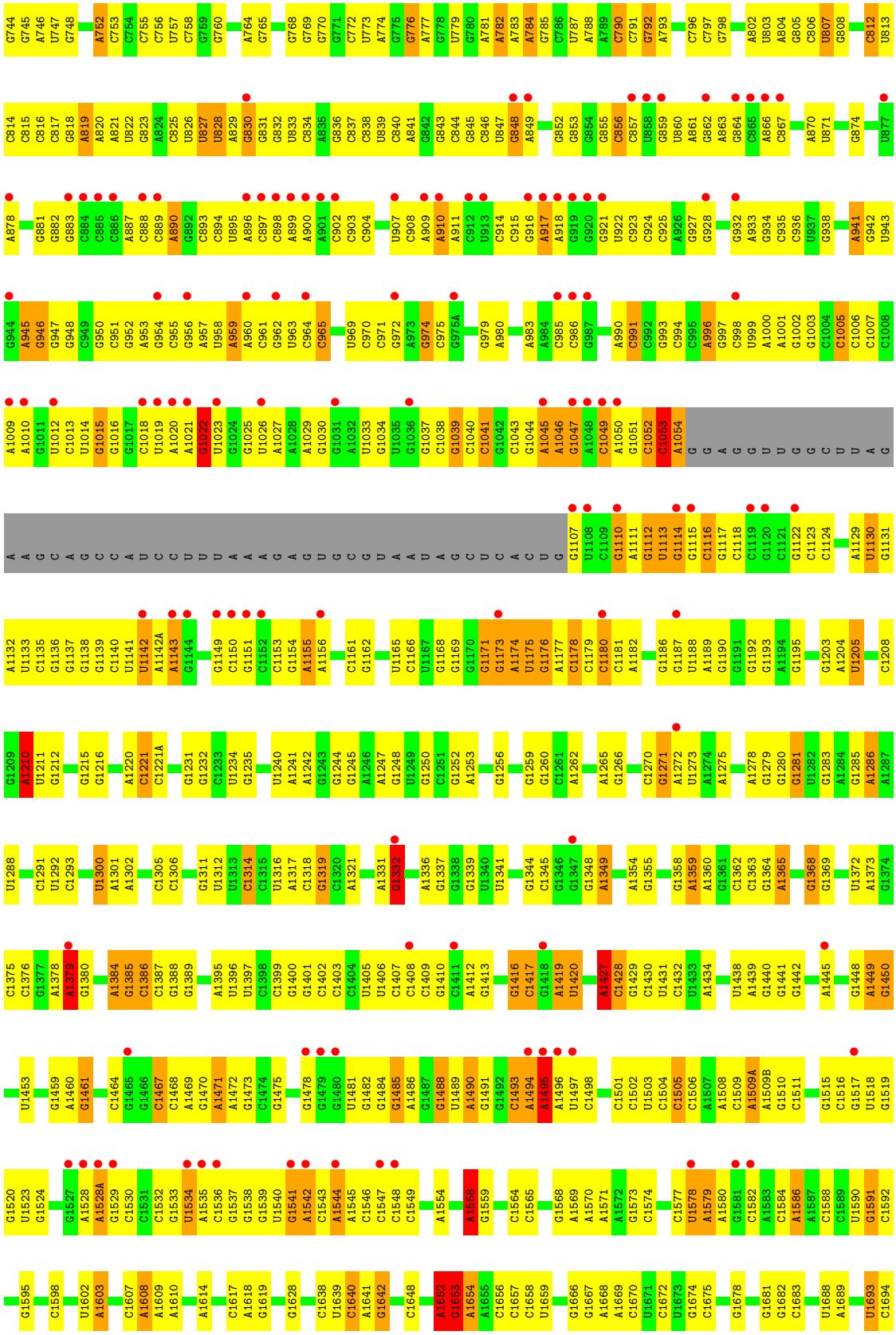


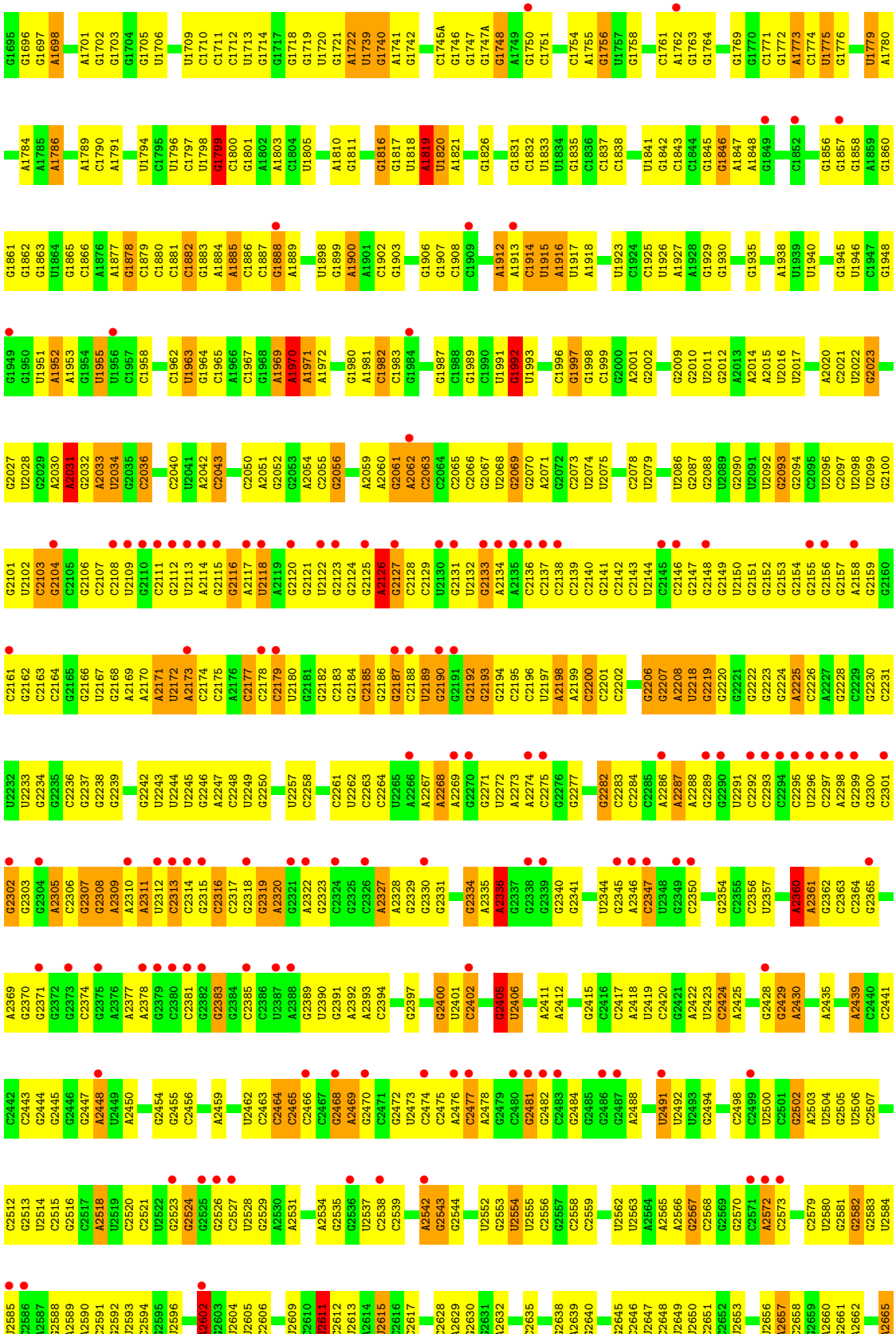


• Molecule 35: 23S RIBOSOMAL RNA

Chain DA:



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G1949 G1950 U1951 A1952 A1953 G1954 U1955 U1956 C1957 C1958 C1962 U1963 G1964 C1965 A1966 C1967 G1968 A1969 A1970 A1971 A1972 G1980 A1981 C1982 C1983 G1984 G1987 C1988 G1989 C1990 U1991 G1992 U1993 C1996 G1997 G1998 C1999 G2000 A2001 G2002 G2009 G2010 U2011 G2012 A2013 A2014 A2015 U2016 U2017 A2020 C2021 U2022 G2023
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G2101 U2102 C2103 G2104 C2105 G2106 C2107 C2108 U2109 G2110 C2111 C2112 U2113 A2114 G2115 G2116 A2117 U2118 A2119 G2120 G2121 U2122 G2123 G2124 G2125 A2126 G2127 C2128 C2129 U2130 G2131 U2132 G2133 A2134 A2135 C2136 C2137 C2138 C2139 C2140 G2141 C2142 C2143 U2144 C2145 C2146 G2147 G2148 G2149 U2150 G2151 G2152 G2153 G2154 G2155 G2156 G2157 A2158 G2159 G2160
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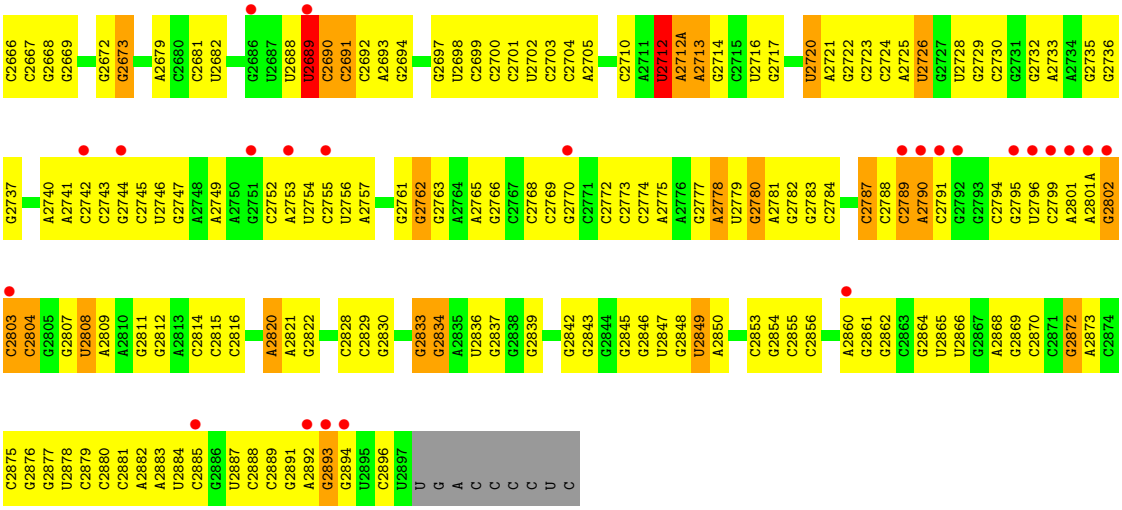
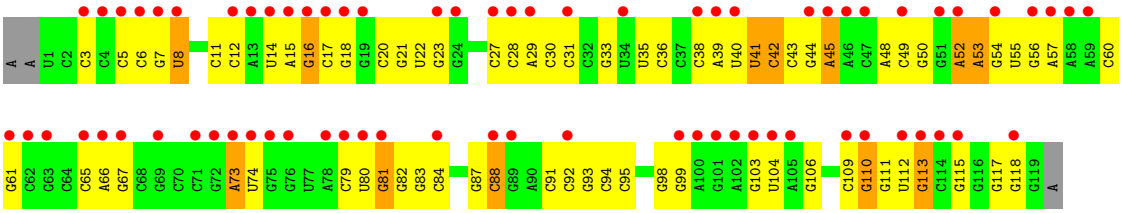


• Molecule 36: 5S RIBOSOMAL RNA

Chain BB:

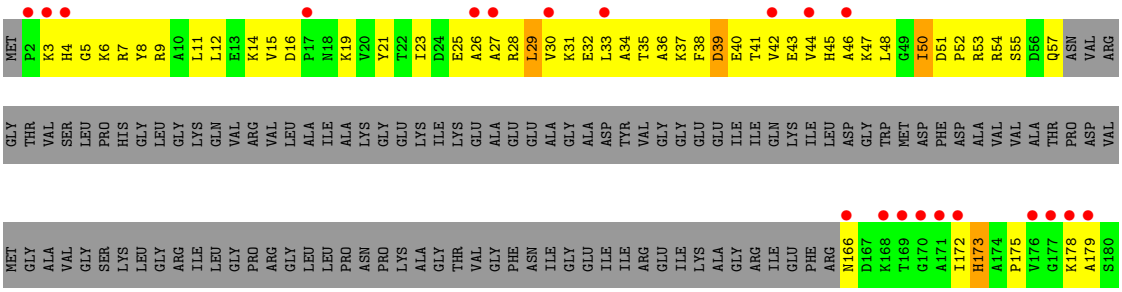
• Molecule 36: 5S RIBOSOMAL RNA

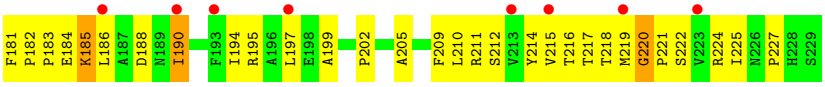
Chain DB:



• Molecule 37: 50S RIBOSOMAL PROTEIN L1

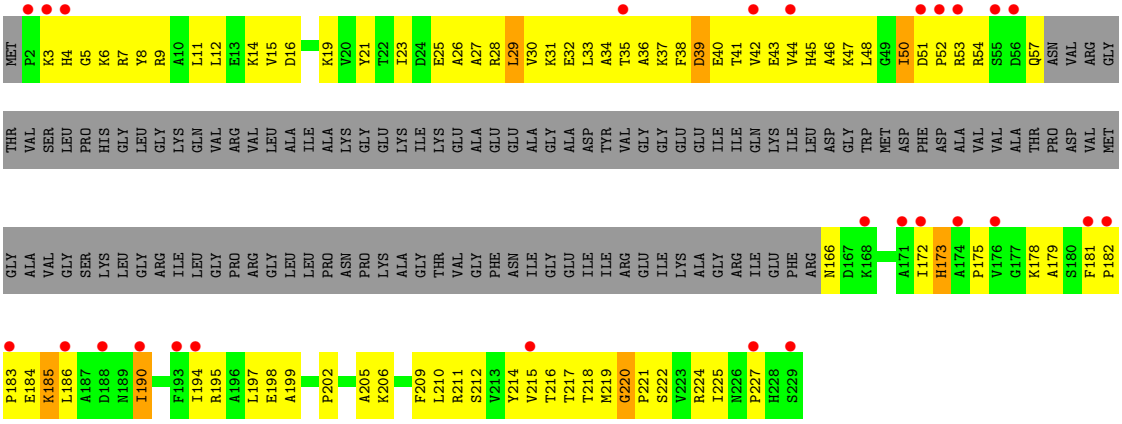
Chain BC:





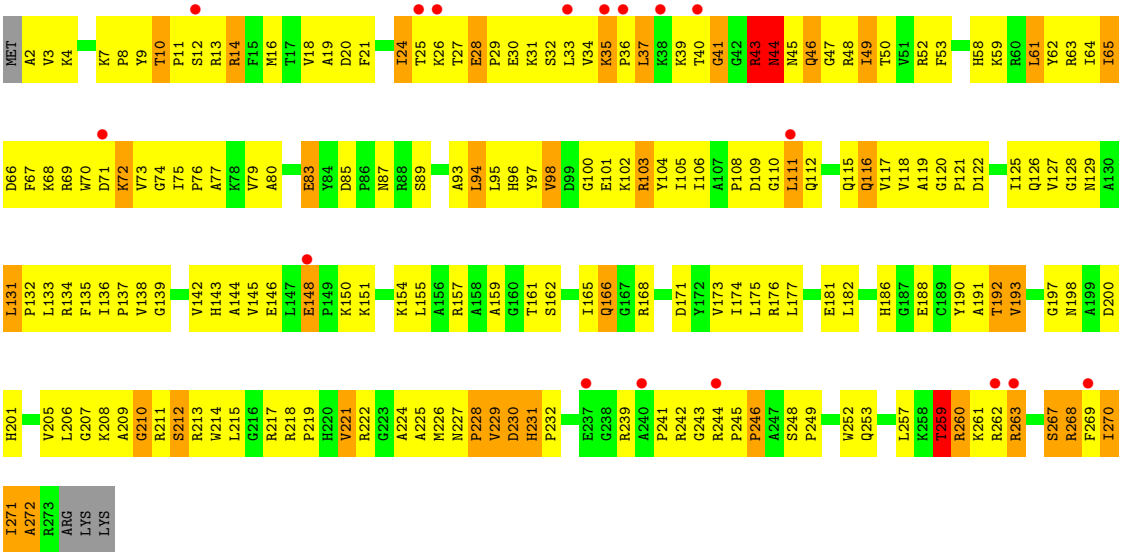
• Molecule 37: 50S RIBOSOMAL PROTEIN L1

Chain DC:



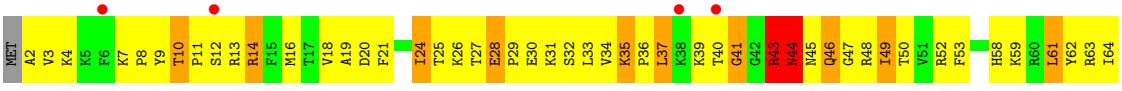
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

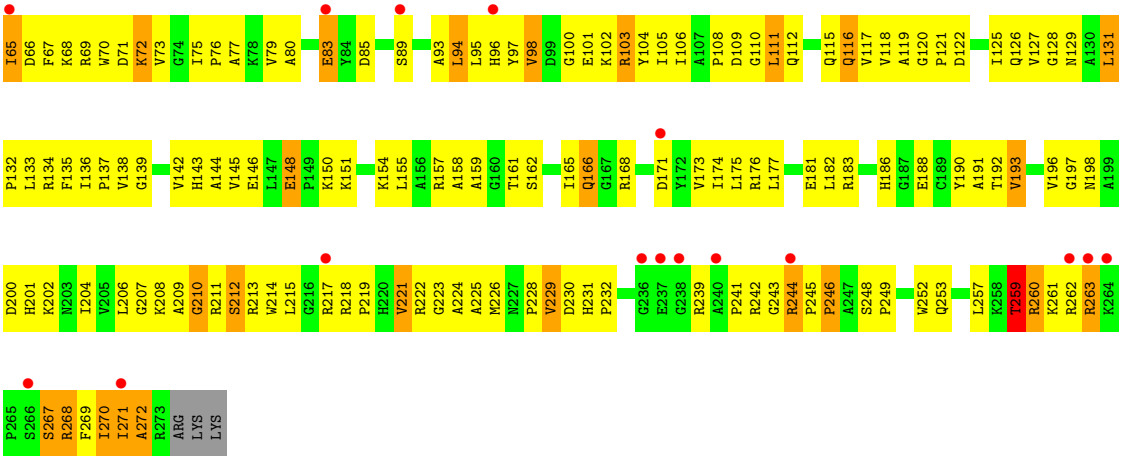
Chain BD:



• Molecule 38: 50S RIBOSOMAL PROTEIN L2

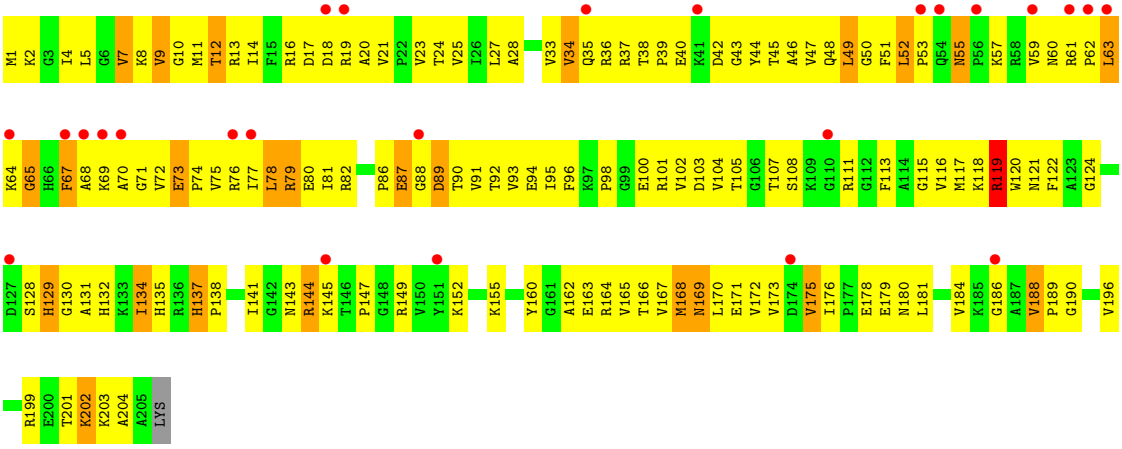
Chain DD:





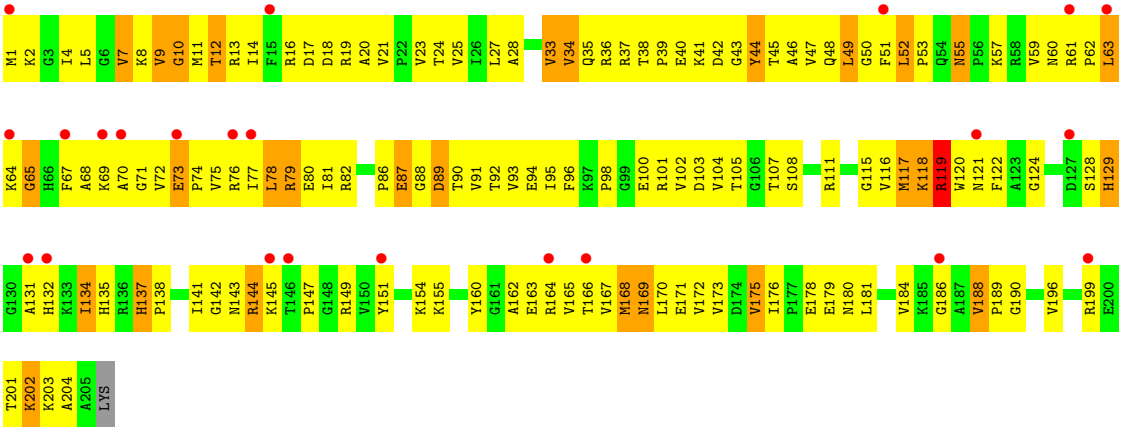
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain BE:

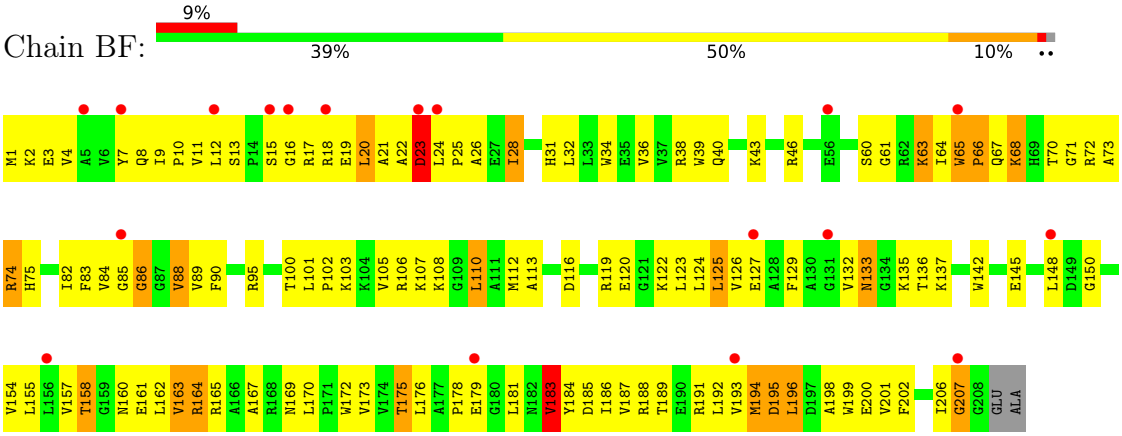


• Molecule 39: 50S RIBOSOMAL PROTEIN L3

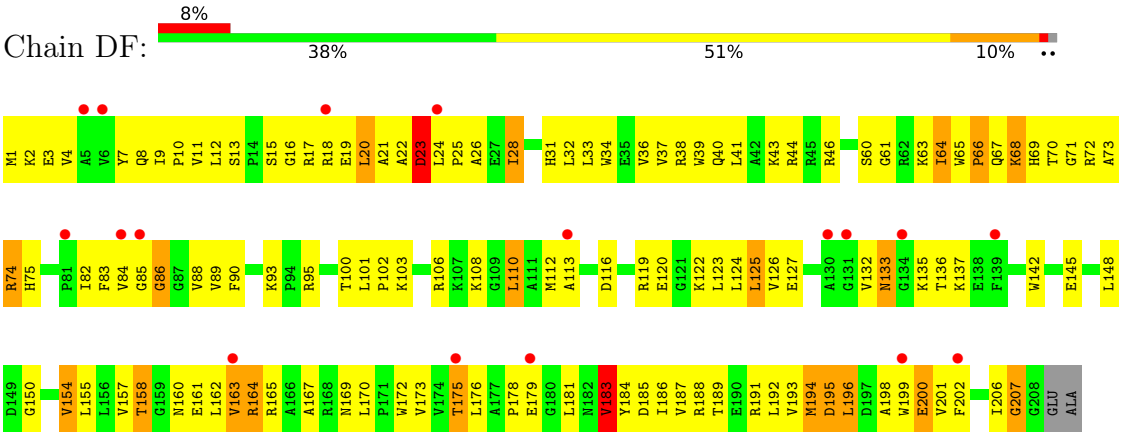
Chain DE:



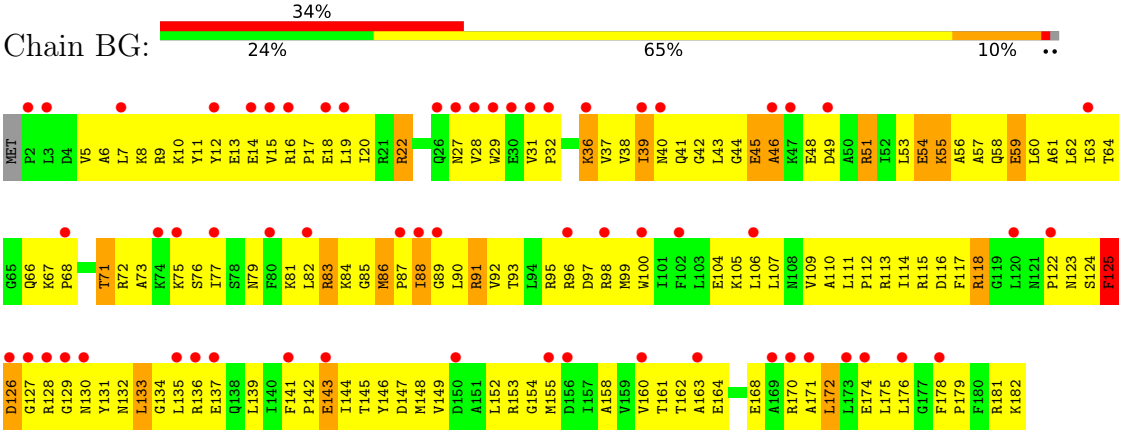
• Molecule 40: 50S RIBOSOMAL PROTEIN L4



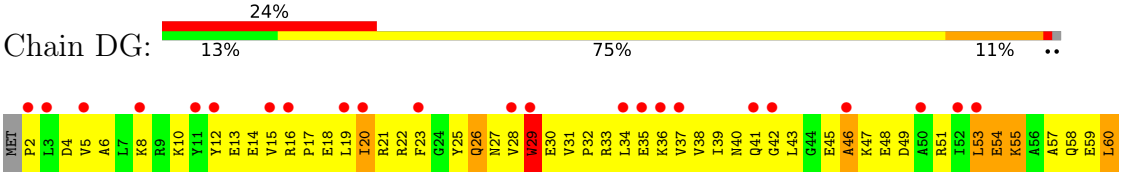
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

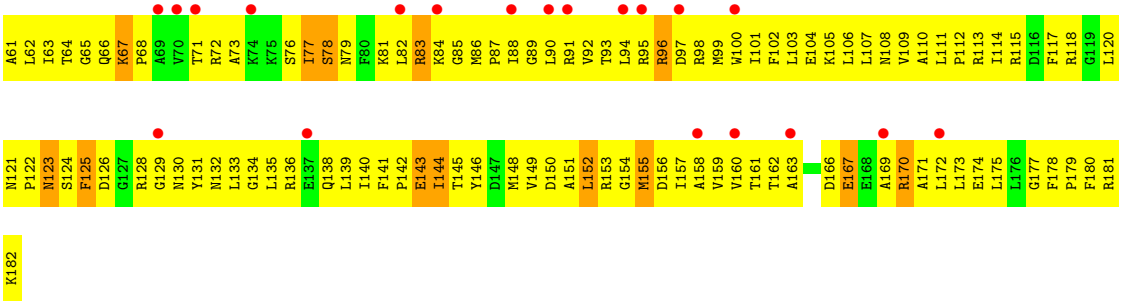


• Molecule 41: 50S RIBOSOMAL PROTEIN L5



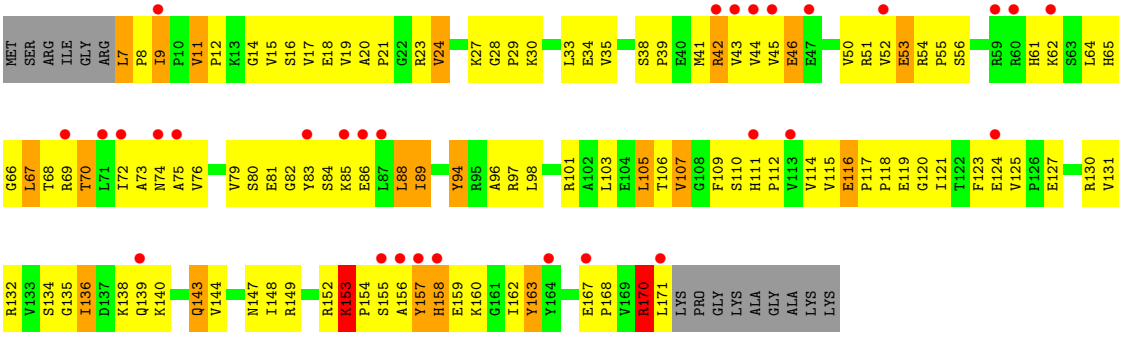
• Molecule 41: 50S RIBOSOMAL PROTEIN L5





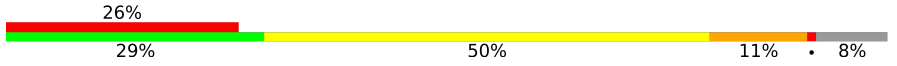
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

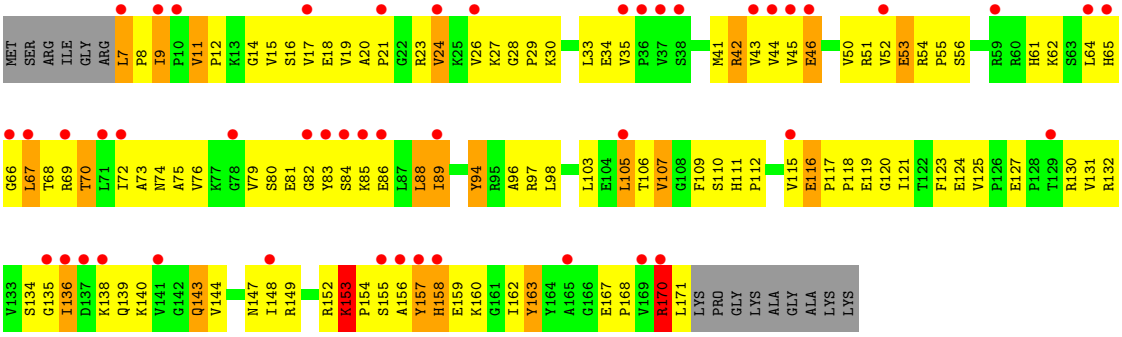
Chain BH:



• Molecule 42: 50S RIBOSOMAL PROTEIN L6

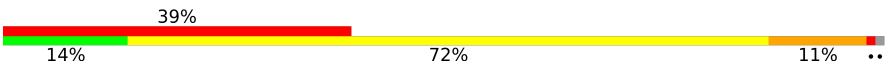
Chain DH:

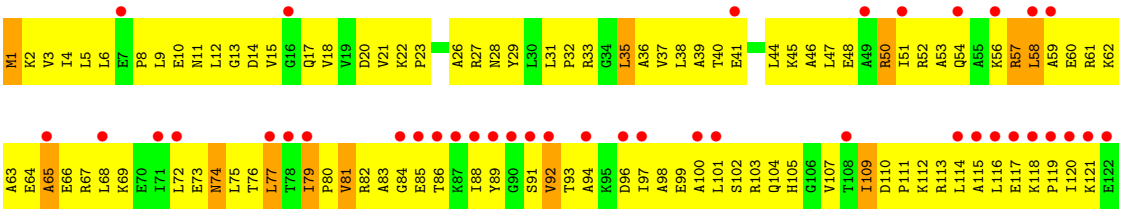


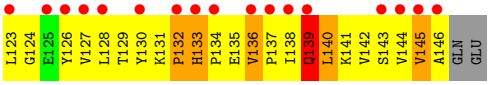


• Molecule 43: 50S RIBOSOMAL PROTEIN L9

Chain BI:

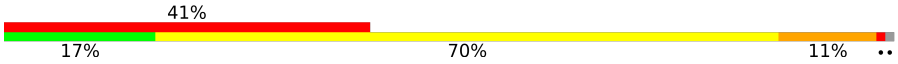


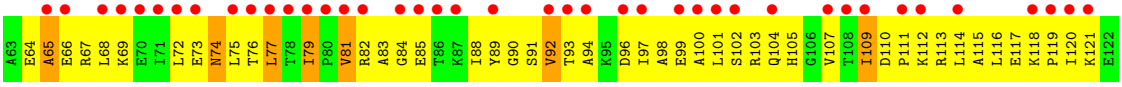


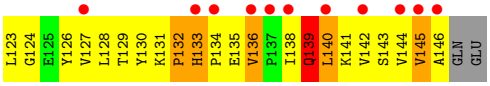


• Molecule 43: 50S RIBOSOMAL PROTEIN L9

Chain DI:

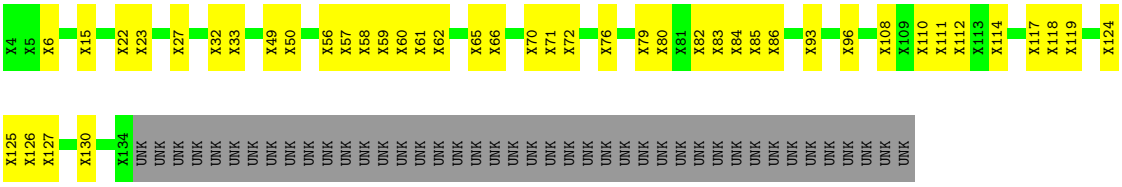






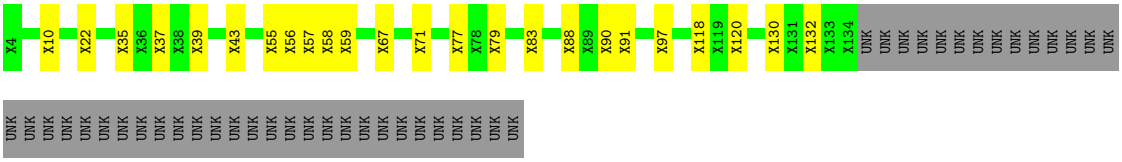
• Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain BJ:



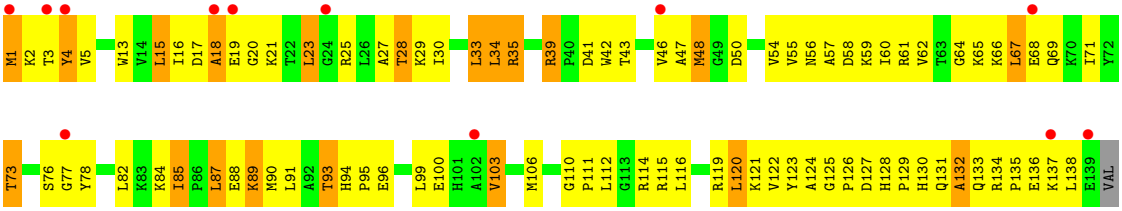
• Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain DJ:



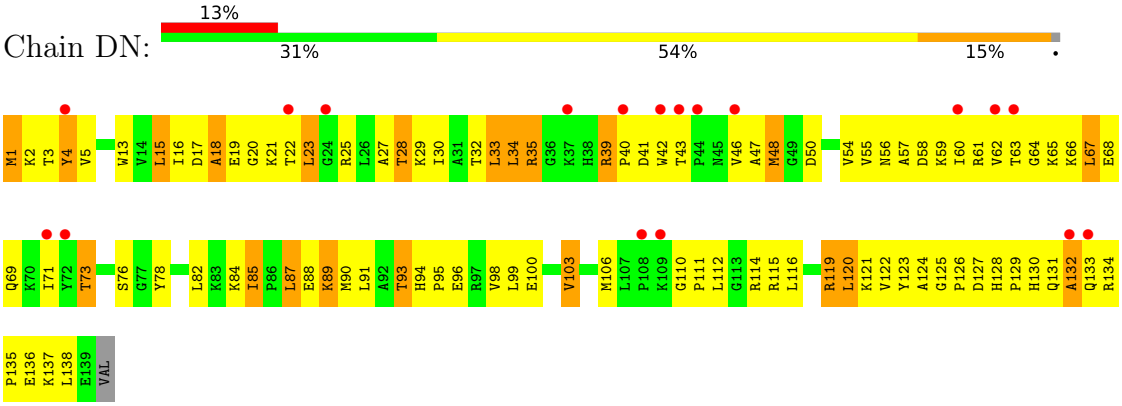
• Molecule 45: 50S RIBOSOMAL PROTEIN L13

Chain BN:



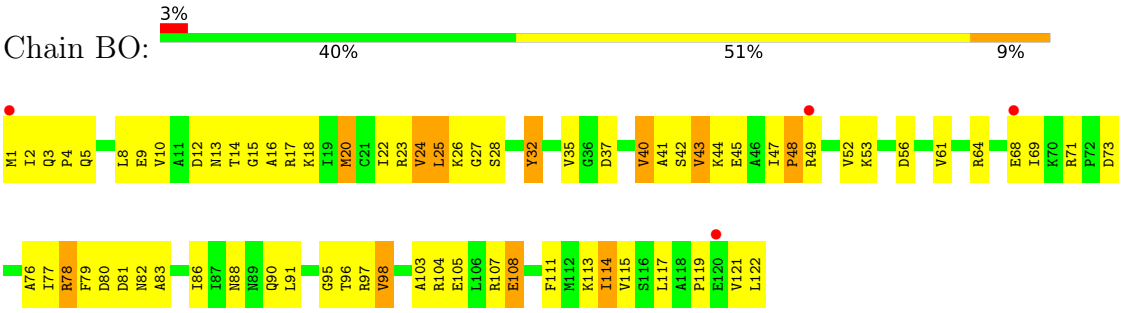
• Molecule 45: 50S RIBOSOMAL PROTEIN L13

Chain DN:



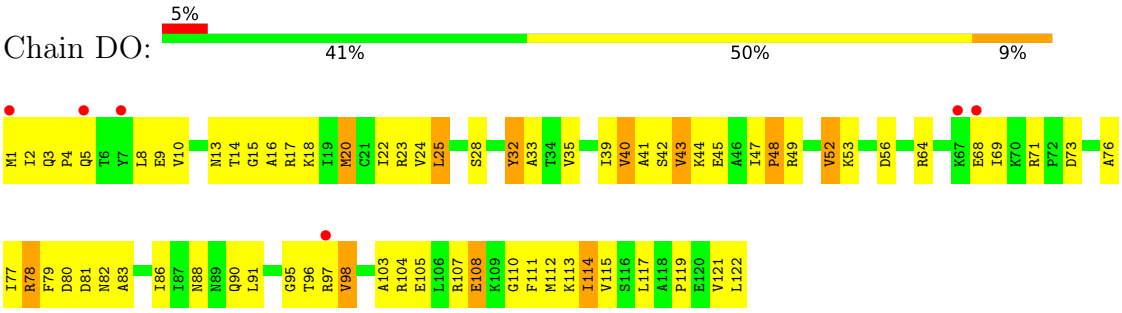
• Molecule 46: 50S RIBOSOMAL PROTEIN L14

Chain BO:



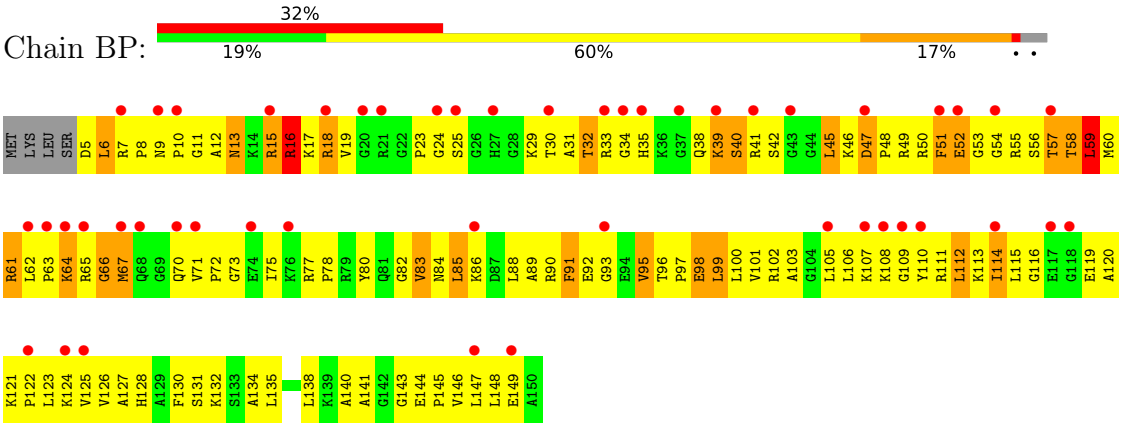
• Molecule 46: 50S RIBOSOMAL PROTEIN L14

Chain DO:



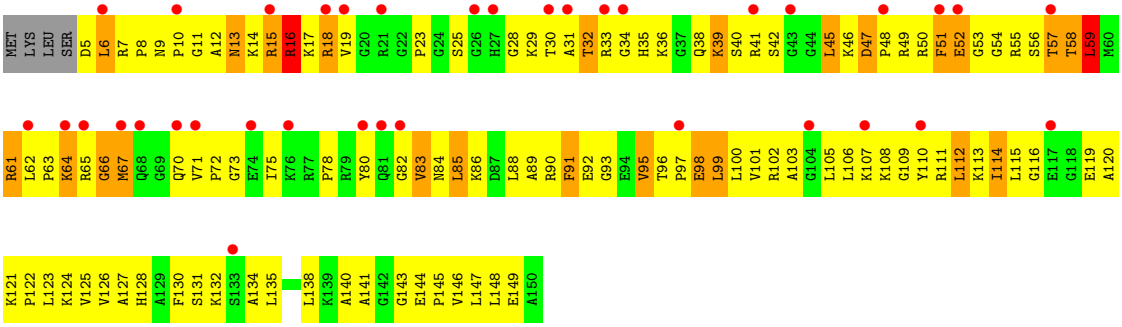
• Molecule 47: 50S RIBOSOMAL PROTEIN L15

Chain BP:



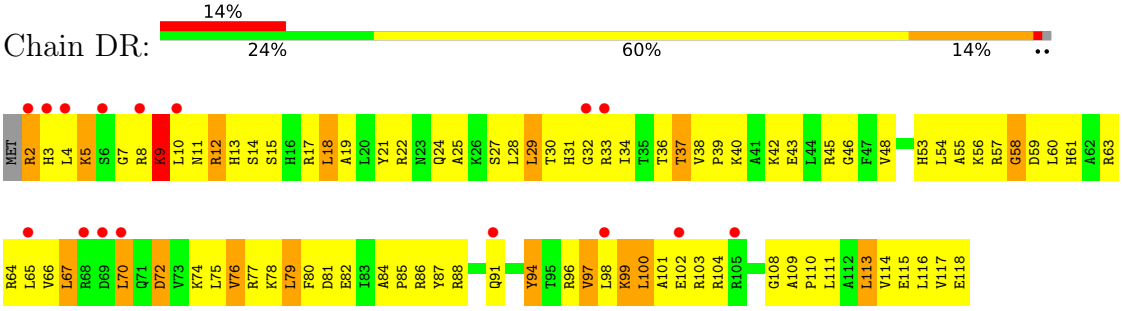
• Molecule 47: 50S RIBOSOMAL PROTEIN L15

Chain DP:



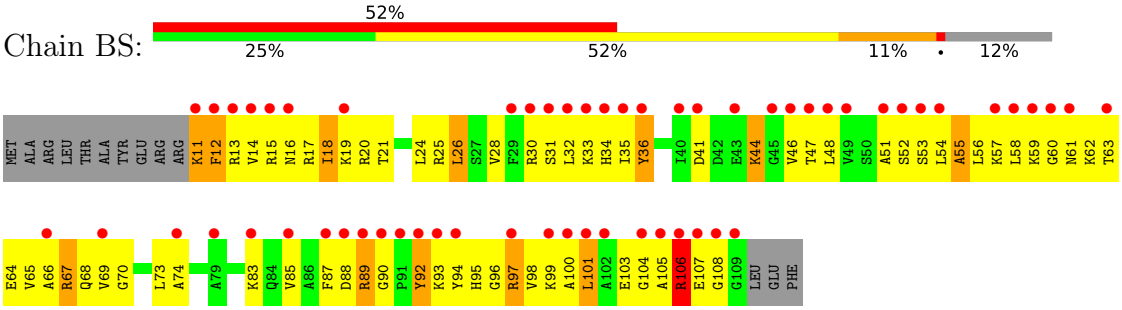
• Molecule 49: 50S RIBOSOMAL PROTEIN L17

Chain DR:



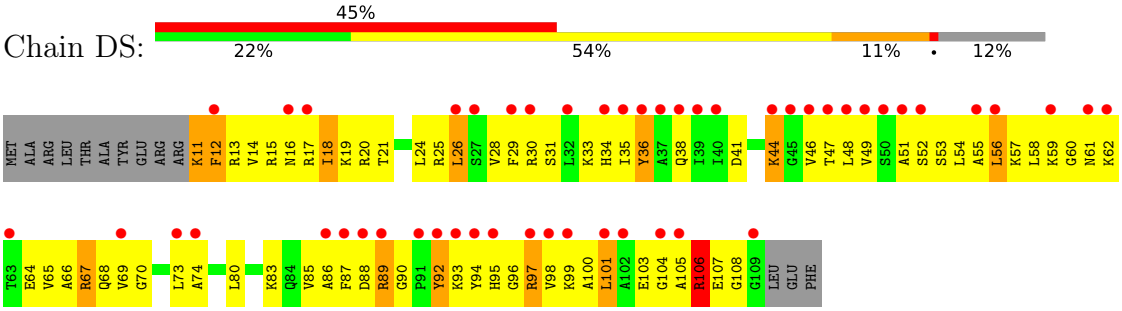
• Molecule 50: 50S RIBOSOMAL PROTEIN L18

Chain BS:



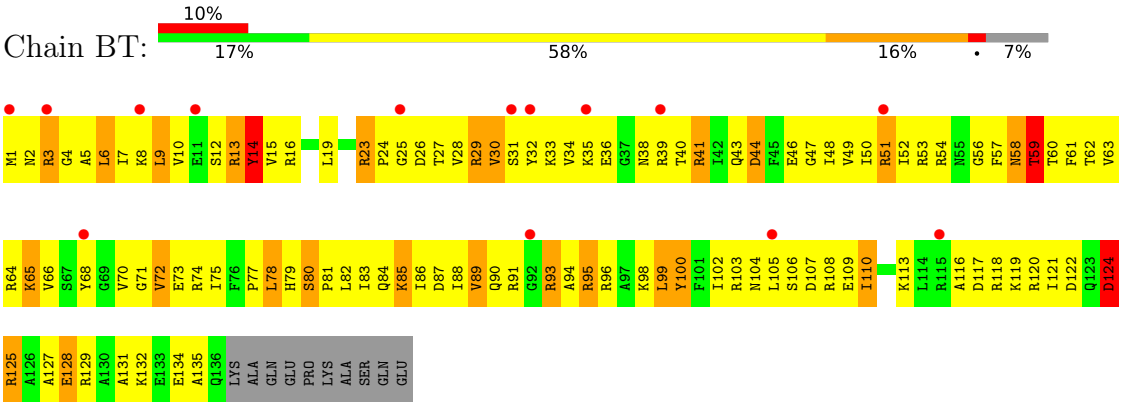
• Molecule 50: 50S RIBOSOMAL PROTEIN L18

Chain DS:



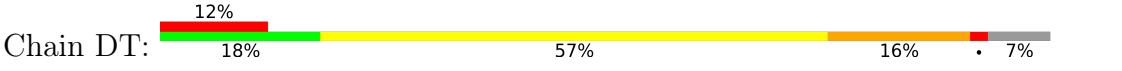
• Molecule 51: 50S RIBOSOMAL PROTEIN L19

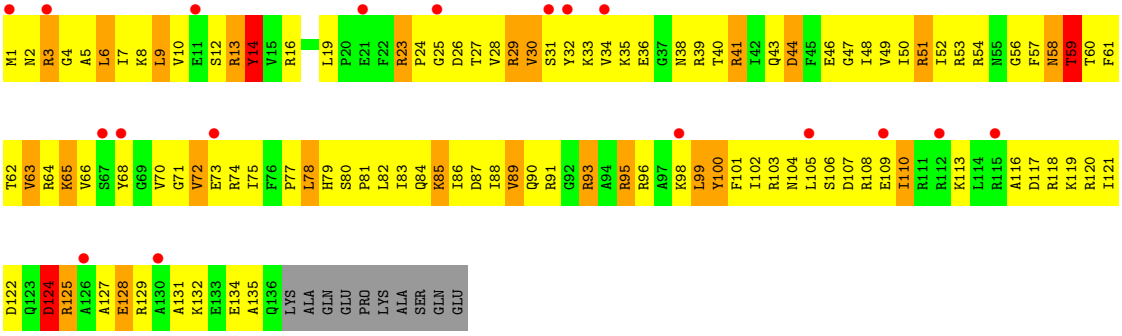
Chain BT:



• Molecule 51: 50S RIBOSOMAL PROTEIN L19

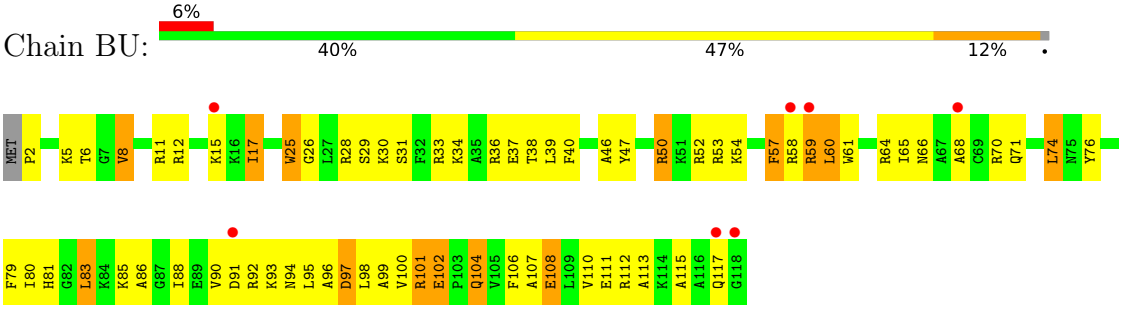
Chain DT:





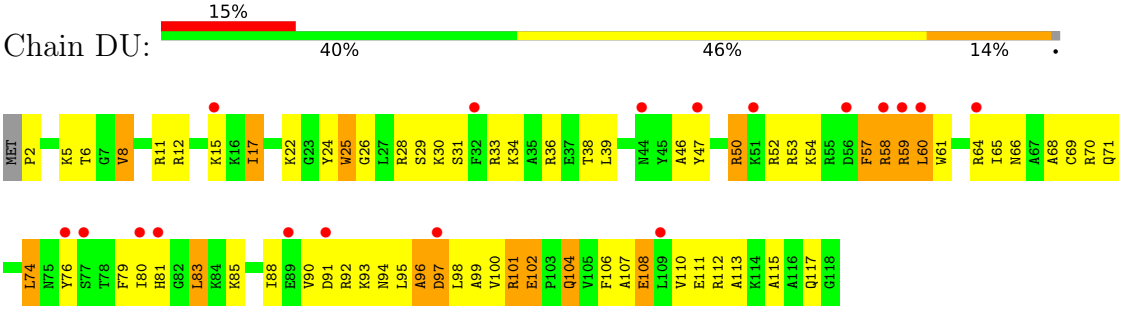
• Molecule 52: 50S RIBOSOMAL PROTEIN L20

Chain BU:



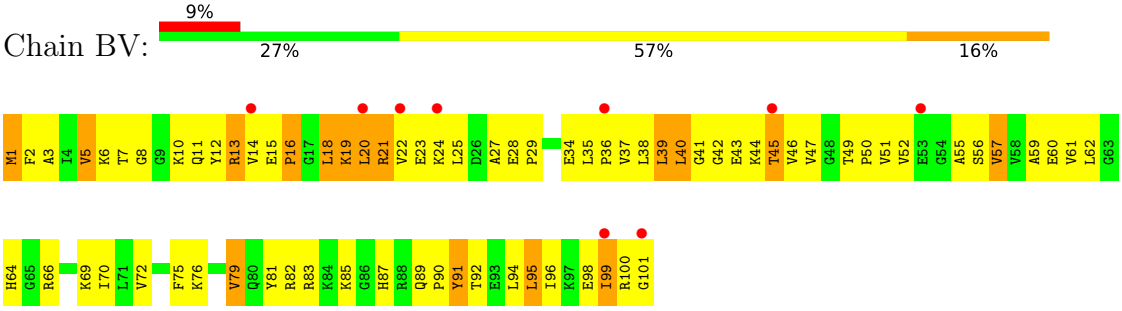
• Molecule 52: 50S RIBOSOMAL PROTEIN L20

Chain DU:



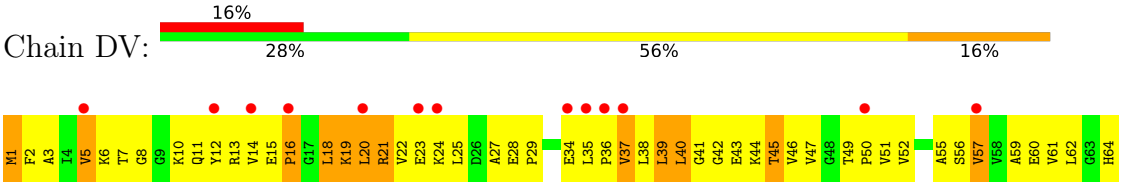
• Molecule 53: 50S RIBOSOMAL PROTEIN L21

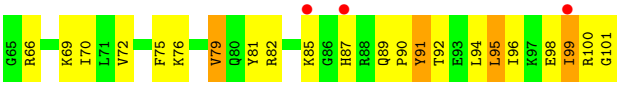
Chain BV:



• Molecule 53: 50S RIBOSOMAL PROTEIN L21

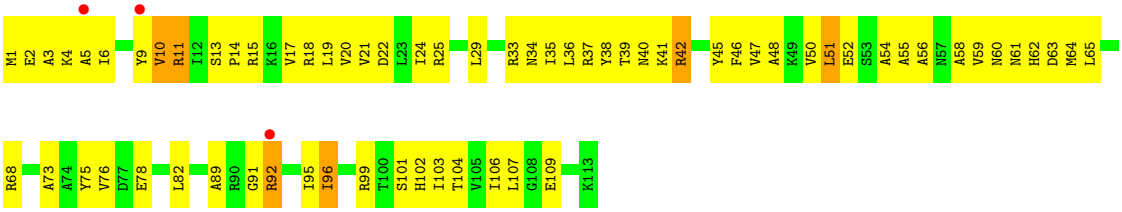
Chain DV:





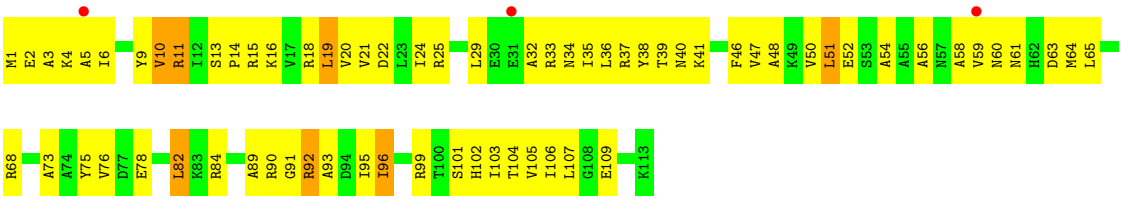
• Molecule 54: 50S RIBOSOMAL PROTEIN L22

Chain BW:



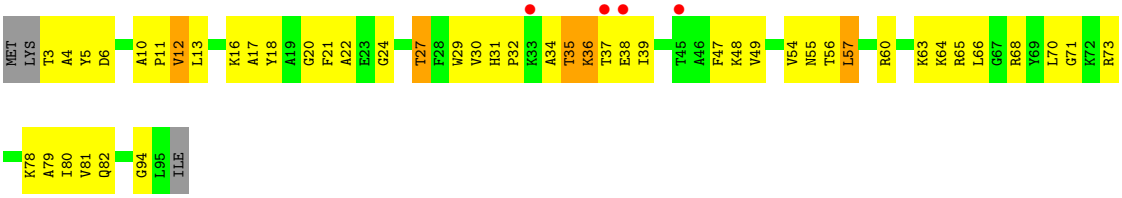
• Molecule 54: 50S RIBOSOMAL PROTEIN L22

Chain DW:



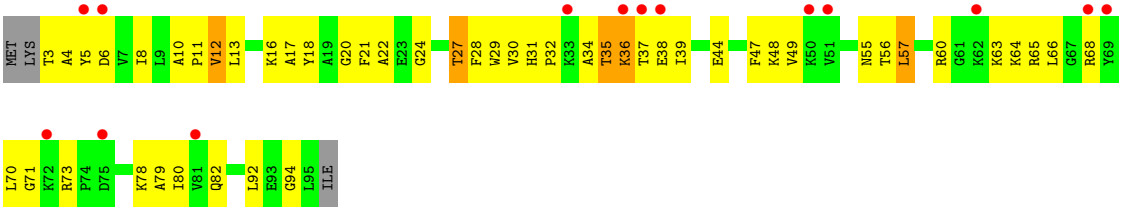
• Molecule 55: 50S RIBOSOMAL PROTEIN L23

Chain BX:



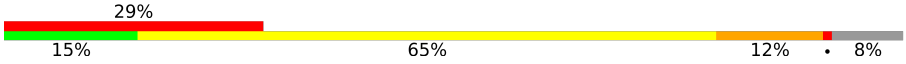
• Molecule 55: 50S RIBOSOMAL PROTEIN L23

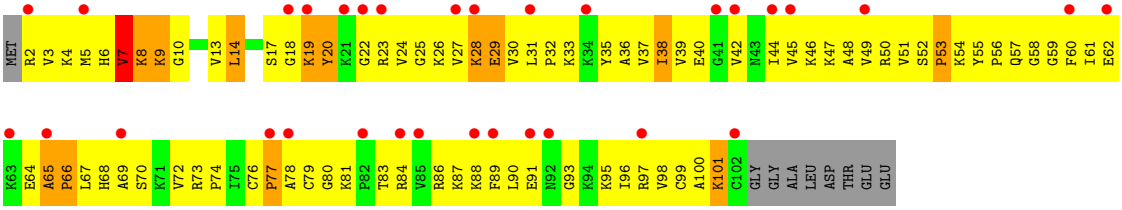
Chain DX:



• Molecule 56: 50S RIBOSOMAL PROTEIN L24

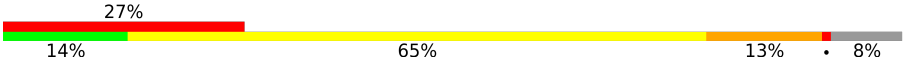
Chain BY:

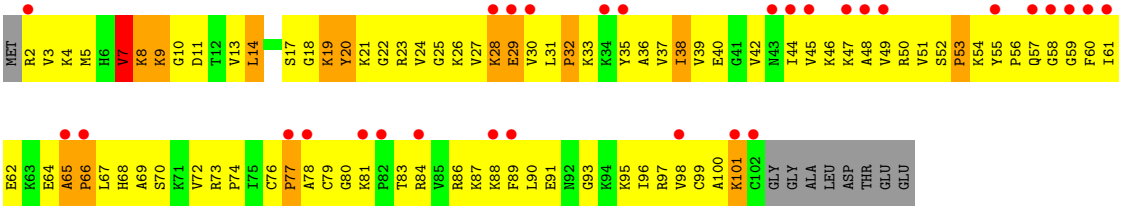




• Molecule 56: 50S RIBOSOMAL PROTEIN L24

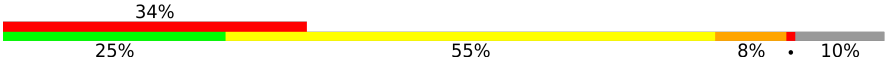
Chain DY:

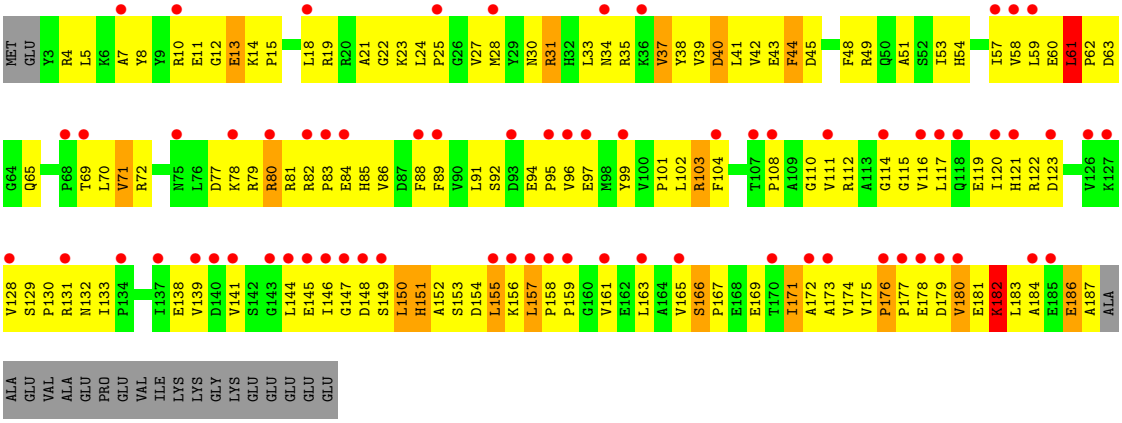




• Molecule 57: 50S RIBOSOMAL PROTEIN L25

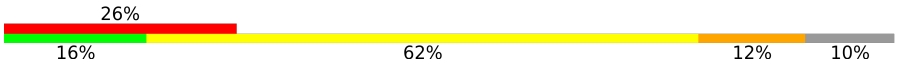
Chain BZ:

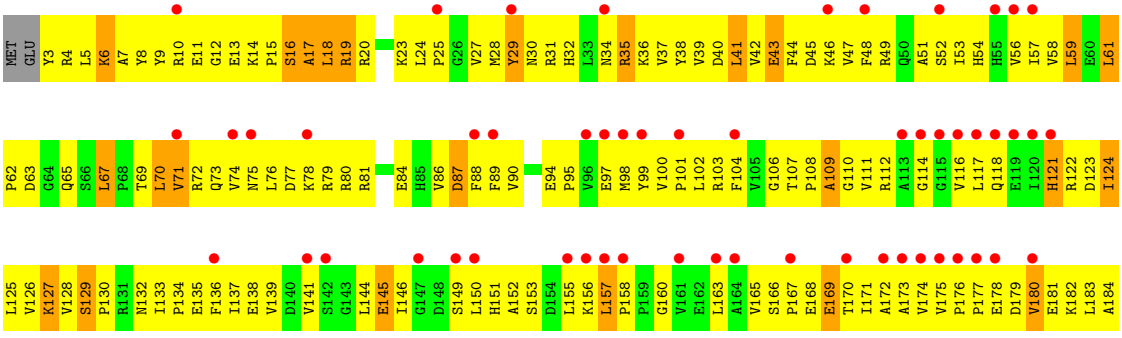


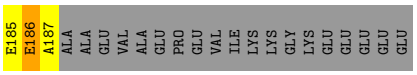


• Molecule 57: 50S RIBOSOMAL PROTEIN L25

Chain DZ:






E185
E186
A187
ALA
ALA
GLU
VAL
ALA
GLU
PRO
GLU
VAL
ILE
LYS
LYS
GLY
LYS
GLU
GLU
GLU
GLU

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	211.90Å 450.79Å 625.61Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 3.10 50.00 – 3.10	Depositor EDS
% Data completeness (in resolution range)	98.1 (50.00-3.10) 97.6 (50.00-3.10)	Depositor EDS
R_{merge}	0.02	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.63 (at 3.12Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.250 , 0.280 (Not available) , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	71.3	Xtriage
Anisotropy	0.237	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 87.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.42$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.88	EDS
Total number of atoms	298096	wwPDB-VP
Average B, all atoms (Å^2)	100.0	wwPDB-VP

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

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, AG9

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	0.43	0/36190	0.62	28/56486 (0.0%)
1	CA	0.43	0/36190	0.63	28/56486 (0.0%)
2	AB	0.38	1/1936 (0.1%)	0.97	13/2611 (0.5%)
2	CB	0.37	1/1936 (0.1%)	0.97	12/2611 (0.5%)
3	AC	0.41	1/1637 (0.1%)	0.88	2/2207 (0.1%)
3	CC	0.40	1/1637 (0.1%)	0.88	4/2207 (0.2%)
4	AD	0.44	0/1733	0.94	6/2318 (0.3%)
4	CD	0.44	0/1733	0.93	6/2318 (0.3%)
5	AE	0.47	1/1163 (0.1%)	0.92	3/1566 (0.2%)
5	CE	0.45	1/1163 (0.1%)	0.92	3/1566 (0.2%)
6	AF	0.43	0/856	0.88	2/1154 (0.2%)
6	CF	0.41	0/856	0.87	2/1154 (0.2%)
7	AG	0.37	0/1276	0.92	5/1709 (0.3%)
7	CG	0.37	0/1276	0.92	5/1709 (0.3%)
8	AH	0.41	0/1136	0.97	5/1527 (0.3%)
8	CH	0.40	0/1136	0.96	6/1527 (0.4%)
9	AI	0.35	0/1027	0.86	2/1373 (0.1%)
9	CI	0.35	0/1027	0.87	2/1373 (0.1%)
10	AJ	0.44	1/808 (0.1%)	0.92	2/1087 (0.2%)
10	CJ	0.43	1/808 (0.1%)	0.92	1/1087 (0.1%)
11	AK	0.43	0/900	0.93	3/1213 (0.2%)
11	CK	0.41	0/900	0.93	3/1213 (0.2%)
12	AL	0.61	1/987 (0.1%)	1.33	13/1322 (1.0%)
12	CL	0.57	1/987 (0.1%)	1.30	13/1322 (1.0%)
13	AM	0.43	1/943 (0.1%)	0.95	3/1256 (0.2%)
13	CM	0.42	1/943 (0.1%)	0.94	3/1256 (0.2%)
14	AN	0.37	0/501	0.82	0/664
14	CN	0.36	0/501	0.82	0/664
15	AO	0.41	0/745	0.84	0/992
15	CO	0.39	0/745	0.84	0/992
16	AP	0.49	1/717 (0.1%)	0.97	4/965 (0.4%)
16	CP	0.50	1/717 (0.1%)	0.97	5/965 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.45	1/837 (0.1%)	0.93	4/1119 (0.4%)
17	CQ	0.44	1/837 (0.1%)	0.93	3/1119 (0.3%)
18	AR	0.42	0/579	1.08	6/768 (0.8%)
18	CR	0.38	0/579	1.09	6/768 (0.8%)
19	AS	0.47	1/643 (0.2%)	0.95	1/867 (0.1%)
19	CS	0.48	1/643 (0.2%)	0.93	1/867 (0.1%)
20	AT	0.39	0/765	0.89	3/1007 (0.3%)
20	CT	0.40	0/765	0.90	3/1007 (0.3%)
21	AU	0.54	1/213 (0.5%)	0.79	1/279 (0.4%)
21	CU	0.55	1/213 (0.5%)	0.79	0/279
22	AV	1.06	0/1830	0.90	3/2849 (0.1%)
22	AY	1.11	0/1830	0.90	4/2849 (0.1%)
22	CV	0.61	0/1830	0.84	5/2849 (0.2%)
22	CY	1.00	10/1830 (0.5%)	1.01	16/2849 (0.6%)
23	AW	1.28	3/1853 (0.2%)	1.02	11/2887 (0.4%)
23	CW	0.62	0/1853	0.91	9/2887 (0.3%)
24	AX	0.47	0/290	0.82	0/450
24	CX	0.63	0/290	0.89	0/450
25	B0	0.54	0/671	0.94	1/892 (0.1%)
25	D0	0.45	0/671	0.93	1/892 (0.1%)
26	B1	0.63	1/741 (0.1%)	1.11	4/986 (0.4%)
26	D1	0.57	0/741	1.16	7/986 (0.7%)
27	B2	0.57	0/600	1.12	4/793 (0.5%)
27	D2	0.43	0/600	0.91	1/793 (0.1%)
28	B3	0.58	1/473 (0.2%)	1.01	3/636 (0.5%)
28	D3	0.51	1/473 (0.2%)	1.03	3/636 (0.5%)
29	B4	0.50	1/461 (0.2%)	0.97	1/623 (0.2%)
29	D4	0.50	1/461 (0.2%)	0.96	1/623 (0.2%)
30	B5	0.70	1/442 (0.2%)	1.03	2/598 (0.3%)
30	D5	0.62	1/442 (0.2%)	1.01	2/598 (0.3%)
31	B6	0.51	0/440	1.12	5/586 (0.9%)
31	D6	0.53	0/440	1.12	5/586 (0.9%)
32	B7	0.76	1/418 (0.2%)	1.10	1/552 (0.2%)
32	D7	0.72	1/418 (0.2%)	1.10	4/552 (0.7%)
33	B8	0.75	1/516 (0.2%)	1.21	3/681 (0.4%)
33	D8	0.64	1/516 (0.2%)	1.20	3/681 (0.4%)
34	B9	0.44	0/310	0.94	2/407 (0.5%)
34	D9	0.45	0/310	0.94	2/407 (0.5%)
35	BA	0.47	1/68704 (0.0%)	0.68	59/107260 (0.1%)
35	DA	0.44	1/68704 (0.0%)	0.68	60/107260 (0.1%)
36	BB	0.40	0/2853	0.60	0/4451
36	DB	0.40	0/2853	0.61	0/4451
37	BC	0.41	0/956	0.90	3/1288 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
37	DC	0.42	0/956	0.90	3/1288 (0.2%)
38	BD	0.65	1/2155 (0.0%)	1.17	18/2907 (0.6%)
38	DD	0.57	1/2155 (0.0%)	1.15	17/2907 (0.6%)
39	BE	0.66	1/1597 (0.1%)	1.10	9/2155 (0.4%)
39	DE	0.57	1/1597 (0.1%)	1.10	13/2155 (0.6%)
40	BF	0.60	2/1659 (0.1%)	1.08	14/2246 (0.6%)
40	DF	0.51	1/1659 (0.1%)	1.08	13/2246 (0.6%)
41	BG	0.46	0/1498	1.01	9/2013 (0.4%)
41	DG	0.41	0/1498	1.03	10/2013 (0.5%)
42	BH	0.50	1/1285 (0.1%)	1.11	14/1741 (0.8%)
42	DH	0.50	1/1285 (0.1%)	1.10	12/1741 (0.7%)
43	BI	0.51	1/1147 (0.1%)	1.14	14/1553 (0.9%)
43	DI	0.48	1/1147 (0.1%)	1.13	13/1553 (0.8%)
45	BN	0.57	1/1132 (0.1%)	1.13	9/1527 (0.6%)
45	DN	0.49	1/1132 (0.1%)	1.10	9/1527 (0.6%)
46	BO	0.60	0/943	0.98	2/1269 (0.2%)
46	DO	0.55	0/943	0.97	2/1269 (0.2%)
47	BP	0.63	0/1131	1.33	14/1504 (0.9%)
47	DP	0.52	0/1131	1.31	13/1504 (0.9%)
48	BQ	0.57	1/1134 (0.1%)	0.94	5/1517 (0.3%)
48	DQ	0.49	1/1134 (0.1%)	0.92	3/1517 (0.2%)
49	BR	0.62	0/974	1.12	7/1302 (0.5%)
49	DR	0.56	0/974	1.11	7/1302 (0.5%)
50	BS	0.48	1/779 (0.1%)	1.00	3/1038 (0.3%)
50	DS	0.44	1/779 (0.1%)	1.00	3/1038 (0.3%)
51	BT	0.60	1/1138 (0.1%)	1.20	16/1521 (1.1%)
51	DT	0.55	1/1138 (0.1%)	1.19	13/1521 (0.9%)
52	BU	0.65	0/975	1.03	5/1297 (0.4%)
52	DU	0.52	0/975	1.06	6/1297 (0.5%)
53	BV	0.53	0/790	0.99	2/1057 (0.2%)
53	DV	0.46	0/790	0.97	2/1057 (0.2%)
54	BW	0.66	0/907	1.03	5/1216 (0.4%)
54	DW	0.56	0/907	1.03	4/1216 (0.3%)
55	BX	0.62	1/740 (0.1%)	1.11	3/995 (0.3%)
55	DX	0.55	1/740 (0.1%)	1.09	3/995 (0.3%)
56	BY	0.62	1/789 (0.1%)	1.13	5/1053 (0.5%)
56	DY	0.55	1/789 (0.1%)	1.11	5/1053 (0.5%)
57	BZ	0.57	1/1500 (0.1%)	1.03	8/2037 (0.4%)
57	DZ	0.47	1/1500 (0.1%)	1.04	15/2037 (0.7%)
All	All	0.49	71/322506 (0.0%)	0.79	765/482452 (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	0	18
1	CA	0	19
22	AV	1	17
22	AY	1	19
22	CV	1	10
22	CY	1	17
23	AW	0	21
23	CW	0	11
35	BA	5	46
35	DA	4	41
All	All	13	219

All (71) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	CY	57	U	C3'-O3'	16.50	1.67	1.42
22	CY	56	U	C2-N3	10.13	1.58	1.37
22	CY	57	U	O3'-P	9.24	1.75	1.61
22	CY	58	C	P-O5'	8.37	1.72	1.59
57	BZ	186	GLU	C-N	-7.08	1.23	1.33
22	CY	56	U	N3-C4	6.63	1.51	1.38
23	AW	40	A	O5'-C5'	6.27	1.51	1.42
22	CY	56	U	N1-C2	6.00	1.50	1.38
30	D5	56	LYS	C-N	-5.96	1.25	1.33
38	BD	272	ALA	C-N	-5.92	1.25	1.33
22	CY	58	C	C5'-C4'	5.89	1.60	1.51
13	AM	119	GLY	C-N	-5.86	1.25	1.33
17	AQ	100	LYS	C-N	-5.83	1.25	1.33
42	BH	170	ARG	C-N	-5.80	1.25	1.33
45	DN	138	LEU	C-N	-5.79	1.25	1.33
50	BS	108	GLY	C-N	-5.77	1.25	1.33
3	CC	207	VAL	C-N	-5.75	1.25	1.33
2	AB	240	GLN	C-N	-5.73	1.25	1.33
55	DX	94	GLY	C-N	-5.73	1.25	1.33
3	AC	207	VAL	C-N	-5.73	1.25	1.33
12	AL	128	ALA	C-N	-5.73	1.25	1.33
55	BX	94	GLY	C-N	-5.73	1.25	1.33
12	CL	128	ALA	C-N	-5.73	1.25	1.33
56	BY	101	LYS	C-N	-5.71	1.25	1.33
32	D7	47	ARG	C-N	-5.71	1.25	1.33
51	DT	135	ALA	C-N	-5.71	1.25	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	CQ	100	LYS	C-N	-5.68	1.25	1.33
10	CJ	100	THR	C-N	-5.67	1.25	1.33
51	BT	135	ALA	C-N	-5.66	1.25	1.33
48	BQ	140	ALA	C-N	-5.65	1.25	1.33
38	DD	272	ALA	C-N	-5.65	1.25	1.33
56	DY	101	LYS	C-N	-5.64	1.25	1.33
50	DS	108	GLY	C-N	-5.63	1.25	1.33
40	BF	65	TRP	N-CA	5.63	1.49	1.46
28	B3	59	VAL	C-N	-5.62	1.25	1.33
21	CU	25	LYS	C-N	-5.61	1.25	1.33
32	B7	47	ARG	C-N	-5.61	1.25	1.33
48	DQ	140	ALA	C-N	-5.60	1.25	1.33
43	BI	145	VAL	C-N	-5.59	1.25	1.33
10	AJ	100	THR	C-N	-5.58	1.25	1.33
29	B4	57	GLU	C-N	-5.57	1.25	1.33
19	CS	81	ARG	C-N	-5.57	1.25	1.33
40	DF	207	GLY	C-N	-5.56	1.25	1.33
21	AU	25	LYS	C-N	-5.56	1.25	1.33
30	B5	56	LYS	C-N	-5.56	1.25	1.33
19	AS	81	ARG	C-N	-5.55	1.25	1.33
16	CP	83	GLU	C-N	-5.55	1.25	1.33
28	D3	59	VAL	C-N	-5.55	1.25	1.33
57	DZ	186	GLU	C-N	-5.55	1.25	1.33
42	DH	170	ARG	C-N	-5.53	1.25	1.33
16	AP	83	GLU	C-N	-5.52	1.25	1.33
13	CM	119	GLY	C-N	-5.52	1.25	1.33
2	CB	240	GLN	C-N	-5.51	1.25	1.33
35	DA	272(B)	G	O5'-C5'	5.51	1.50	1.42
43	DI	145	VAL	C-N	-5.51	1.25	1.33
5	CE	154	GLY	C-N	-5.50	1.25	1.33
35	BA	272(B)	G	O5'-C5'	5.49	1.50	1.42
5	AE	154	GLY	C-N	-5.49	1.25	1.33
33	B8	64	TYR	C-N	-5.49	1.25	1.33
29	D4	57	GLU	C-N	-5.49	1.25	1.33
26	B1	95	LEU	C-N	-5.40	1.25	1.33
40	BF	207	GLY	C-N	-5.39	1.25	1.33
39	DE	204	ALA	C-N	-5.37	1.25	1.33
39	BE	204	ALA	C-N	-5.36	1.25	1.33
45	BN	138	LEU	C-N	-5.35	1.25	1.33
22	CY	56	U	C4'-O4'	5.31	1.53	1.45
33	D8	64	TYR	C-N	-5.14	1.26	1.33
23	AW	63	C	P-OP2	5.11	1.59	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	CY	57	U	N1-C6	-5.06	1.27	1.38
23	AW	8	U	O5'-C5'	5.04	1.50	1.42
22	CY	63	C	O4'-C1'	5.01	1.49	1.41

All (765) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	1992	G	C2'-C3'-O3'	14.71	131.57	109.50
35	DA	1992	G	C2'-C3'-O3'	14.61	131.42	109.50
35	DA	331	A	C2'-C3'-O3'	14.12	130.68	109.50
35	BA	790	C	C2'-C3'-O3'	13.91	130.36	109.50
35	BA	331	A	C2'-C3'-O3'	13.82	130.23	109.50
35	DA	1799	G	C2'-C3'-O3'	13.41	129.62	109.50
35	DA	790	C	C2'-C3'-O3'	13.25	129.38	109.50
35	BA	1653	G	C2'-C3'-O3'	13.16	129.24	109.50
47	BP	58	THR	N-CA-C	-13.16	94.16	110.61
35	BA	1799	G	C2'-C3'-O3'	12.98	128.98	109.50
35	BA	752	A	C2'-C3'-O3'	12.91	128.87	109.50
35	DA	752	A	C2'-C3'-O3'	12.79	128.69	109.50
47	DP	58	THR	N-CA-C	-12.78	94.63	110.61
35	DA	1653	G	C2'-C3'-O3'	12.63	128.44	109.50
1	AA	575	G	C2'-C3'-O3'	12.54	128.31	109.50
35	BA	1022	G	C2'-C3'-O3'	12.20	127.80	109.50
47	BP	16	ARG	N-CA-C	-12.16	99.42	114.75
1	CA	575	G	C2'-C3'-O3'	11.99	127.49	109.50
47	DP	16	ARG	N-CA-C	-11.92	99.73	114.75
35	BA	1820	U	C2'-C3'-O3'	11.76	127.13	109.50
35	DA	1820	U	C2'-C3'-O3'	11.69	127.04	109.50
41	BG	54	GLU	N-CA-C	-11.68	98.46	113.17
35	DA	1022	G	C2'-C3'-O3'	11.63	126.95	109.50
35	BA	1819	A	C2'-C3'-O3'	11.48	126.72	109.50
12	AL	46	LYS	N-CA-C	11.29	118.04	108.78
47	BP	54	GLY	N-CA-C	-11.25	98.89	114.64
35	DA	1819	A	C2'-C3'-O3'	11.10	126.15	109.50
47	DP	54	GLY	N-CA-C	-10.99	99.25	114.64
12	CL	46	LYS	N-CA-C	10.94	117.75	108.78
12	AL	44	THR	CA-C-N	10.85	133.41	119.84
12	AL	44	THR	C-N-CA	10.85	133.41	119.84
41	DG	54	GLU	N-CA-C	-10.40	100.13	112.92
12	CL	44	THR	CA-C-N	10.38	132.82	119.84
12	CL	44	THR	C-N-CA	10.38	132.82	119.84
1	AA	1067	A	C2'-C3'-O3'	10.31	124.96	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CA	428	G	C2'-C3'-O3'	10.30	124.94	109.50
35	BA	49	A	C2'-C3'-O3'	10.28	124.92	109.50
22	CY	62	U	C1'-C2'-O2'	-10.21	96.48	111.80
1	CA	1067	A	C2'-C3'-O3'	10.20	124.80	109.50
47	DP	52	GLU	N-CA-C	10.19	132.50	110.80
1	AA	428	G	C2'-C3'-O3'	10.15	124.73	109.50
47	BP	52	GLU	N-CA-C	10.12	132.35	110.80
1	AA	115	G	C2'-C3'-O3'	10.07	124.60	109.50
1	CA	328	C	C2'-C3'-O3'	10.05	124.58	109.50
1	CA	115	G	C2'-C3'-O3'	9.99	124.49	109.50
35	BA	752	A	C4'-C3'-O3'	9.94	124.31	109.40
35	DA	1819	A	C4'-C3'-O3'	9.94	124.30	109.40
55	DX	12	VAL	N-CA-C	9.87	119.88	110.30
47	BP	51	PHE	N-CA-C	9.85	123.23	110.53
56	BY	19	LYS	N-CA-C	-9.84	100.53	112.54
35	BA	1820	U	C4'-C3'-O3'	9.82	124.13	109.40
12	AL	58	VAL	N-CA-C	9.77	121.25	108.35
35	BA	2225	A	C2'-C3'-O3'	9.75	124.13	109.50
35	BA	1799	G	C4'-C3'-O3'	9.72	123.99	109.40
55	BX	12	VAL	N-CA-C	9.72	119.73	110.30
56	DY	19	LYS	N-CA-C	-9.69	100.71	112.54
22	CY	63	C	N1-C1'-C2'	9.68	126.52	112.00
35	DA	752	A	C4'-C3'-O3'	9.65	123.88	109.40
12	AL	119	LYS	N-CA-C	-9.62	97.83	110.53
35	DA	49	A	C2'-C3'-O3'	9.61	123.92	109.50
35	BA	1819	A	C4'-C3'-O3'	9.55	123.72	109.40
47	DP	51	PHE	N-CA-C	9.54	122.84	110.53
1	AA	328	C	C2'-C3'-O3'	9.47	123.70	109.50
35	DA	1820	U	C4'-C3'-O3'	9.45	123.58	109.40
12	CL	119	LYS	N-CA-C	-9.32	98.23	110.53
35	DA	2225	A	C2'-C3'-O3'	9.29	123.43	109.50
27	B2	50	ILE	N-CA-C	9.27	120.08	110.72
35	DA	1799	G	C4'-C3'-O3'	9.03	122.94	109.40
35	BA	387	U	C2'-C3'-O3'	8.97	122.95	109.50
29	B4	42	PHE	N-CA-C	8.92	120.01	108.24
43	BI	67	ARG	N-CA-C	-8.83	101.94	112.89
41	BG	88	ILE	N-CA-C	8.82	122.75	109.17
29	D4	42	PHE	N-CA-C	8.81	120.27	108.38
35	DA	1652	A	C2'-C3'-O3'	8.78	126.87	113.70
35	DA	272	G	C2'-C3'-O3'	8.72	122.58	109.50
35	DA	74	A	C2'-C3'-O3'	8.71	122.56	109.50
35	BA	272	G	C2'-C3'-O3'	8.68	122.52	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BE	52	LEU	CA-C-N	8.65	130.66	119.84
39	BE	52	LEU	C-N-CA	8.65	130.66	119.84
43	DI	67	ARG	N-CA-C	-8.65	102.16	112.89
38	BD	14	ARG	N-CA-C	-8.64	102.86	113.41
52	DU	58	ARG	N-CA-C	-8.64	100.88	111.33
4	CD	12	CYS	N-CA-C	-8.63	100.70	111.75
49	BR	70	LEU	N-CA-C	-8.59	97.77	110.48
51	DT	109	GLU	N-CA-C	-8.57	101.67	112.90
47	BP	99	LEU	N-CA-C	-8.57	102.27	112.89
22	CY	57	U	C1'-C2'-O2'	8.56	121.24	108.40
49	DR	70	LEU	N-CA-C	-8.56	97.82	110.48
35	BA	74	A	C2'-C3'-O3'	8.55	122.33	109.50
4	AD	12	CYS	N-CA-C	-8.52	100.84	111.75
51	BT	109	GLU	N-CA-C	-8.52	101.74	112.90
56	DY	7	VAL	N-CA-C	8.49	126.99	109.34
35	BA	1652	A	C2'-C3'-O3'	8.47	126.41	113.70
23	CW	7	U	C2'-C3'-O3'	8.36	122.05	109.50
45	BN	67	LEU	N-CA-C	-8.35	98.12	110.48
56	BY	7	VAL	N-CA-C	8.34	126.69	109.34
2	CB	56	ARG	N-CA-C	-8.32	101.90	110.97
39	DE	52	LEU	CA-C-N	8.32	130.24	119.84
39	DE	52	LEU	C-N-CA	8.32	130.24	119.84
2	AB	56	ARG	N-CA-C	-8.31	101.91	110.97
23	AW	7	U	C2'-C3'-O3'	8.30	121.95	109.50
18	CR	81	PHE	N-CA-C	-8.26	103.72	113.88
57	BZ	44	PHE	N-CA-C	-8.25	102.23	111.14
12	CL	58	VAL	N-CA-C	8.20	120.14	108.42
33	D8	32	LEU	N-CA-C	-8.20	102.29	111.14
35	DA	790	C	C4'-C3'-O3'	8.20	121.69	109.40
45	DN	67	LEU	N-CA-C	-8.17	98.39	110.48
47	DP	99	LEU	N-CA-C	-8.16	102.77	112.89
35	DA	1786	A	N9-C1'-C2'	8.16	126.24	114.00
38	DD	14	ARG	N-CA-C	-8.16	103.45	113.41
33	B8	32	LEU	N-CA-C	-8.13	102.36	111.14
35	DA	387	U	C2'-C3'-O3'	8.08	121.62	109.50
43	DI	79	ILE	N-CA-C	8.07	115.54	107.55
35	BA	1786	A	N9-C1'-C2'	8.06	126.09	114.00
38	DD	41	GLY	N-CA-C	-8.04	100.21	112.51
38	BD	41	GLY	N-CA-C	-8.02	99.94	112.85
2	CB	78	GLN	N-CA-C	-8.01	103.72	113.97
35	BA	790	C	C4'-C3'-O3'	7.96	121.34	109.40
18	AR	81	PHE	N-CA-C	-7.96	104.09	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	78	GLN	N-CA-C	-7.95	103.79	113.97
22	CY	58	C	P-O5'-C5'	7.94	132.80	120.90
51	DT	124	ASP	N-CA-C	-7.93	103.82	113.97
51	BT	124	ASP	N-CA-C	-7.92	103.83	113.97
43	BI	79	ILE	N-CA-C	7.91	115.38	107.55
1	CA	687	A	C2'-C3'-O3'	7.88	121.33	109.50
39	DE	168	MET	N-CA-C	7.86	120.35	109.18
35	BA	2360	A	N9-C1'-C2'	-7.86	100.21	112.00
46	DO	25	LEU	N-CA-C	7.86	121.73	112.93
22	CY	57	U	C4'-C3'-O3'	7.85	124.78	113.00
56	DY	65	ALA	CA-C-N	7.84	129.65	119.84
56	DY	65	ALA	C-N-CA	7.84	129.65	119.84
52	DU	97	ASP	N-CA-C	-7.84	102.97	112.54
41	BG	51	ARG	N-CA-C	7.84	120.82	108.67
41	DG	55	LYS	N-CA-C	-7.84	102.68	111.14
56	BY	65	ALA	CA-C-N	7.79	129.58	119.84
56	BY	65	ALA	C-N-CA	7.79	129.58	119.84
1	AA	1498	U	C2'-C3'-O3'	7.78	121.16	109.50
57	BZ	182	LYS	N-CA-C	7.77	119.94	108.60
43	BI	64	GLU	N-CA-C	-7.76	103.82	113.28
47	DP	67	MET	N-CA-C	-7.75	100.82	111.28
13	AM	92	HIS	N-CA-C	-7.68	105.87	114.62
1	CA	438	G	C2'-C3'-O3'	-7.68	102.19	113.70
1	CA	748	C	C2'-C3'-O3'	7.66	121.00	109.50
1	AA	913	A	C2'-C3'-O3'	7.66	120.99	109.50
47	BP	53	GLY	N-CA-C	-7.66	95.03	113.18
43	DI	64	GLU	N-CA-C	-7.66	103.94	113.28
1	AA	438	G	C2'-C3'-O3'	-7.65	102.22	113.70
46	BO	25	LEU	N-CA-C	7.61	121.45	112.93
13	CM	92	HIS	N-CA-C	-7.61	105.95	114.62
47	DP	53	GLY	N-CA-C	-7.59	95.19	113.18
52	BU	97	ASP	N-CA-C	-7.59	103.28	112.54
35	DA	1558	A	C2'-C3'-O3'	7.56	120.84	109.50
39	BE	168	MET	N-CA-C	7.56	120.58	109.69
10	CJ	80	LYS	N-CA-C	-7.56	104.20	113.50
1	CA	913	A	C2'-C3'-O3'	7.55	120.83	109.50
1	AA	748	C	C2'-C3'-O3'	7.51	120.76	109.50
10	AJ	80	LYS	N-CA-C	-7.49	104.29	113.50
52	DU	96	ALA	N-CA-C	-7.47	104.62	113.21
1	AA	687	A	C2'-C3'-O3'	7.47	120.70	109.50
41	DG	20	ILE	N-CA-C	-7.45	103.29	112.76
35	DA	474	G	C2'-C3'-O3'	7.45	120.67	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	1558	A	C2'-C3'-O3'	7.45	120.67	109.50
1	CA	1201	A	C2'-C3'-O3'	7.42	120.64	109.50
35	BA	827	U	C2'-C3'-O3'	-7.37	102.65	113.70
16	AP	77	ALA	N-CA-C	-7.36	103.61	112.59
39	BE	137	HIS	CA-C-N	7.35	126.98	119.56
39	BE	137	HIS	C-N-CA	7.35	126.98	119.56
47	DP	59	LEU	N-CA-C	-7.32	104.29	112.57
35	DA	2360	A	N9-C1'-C2'	-7.32	101.02	112.00
45	BN	85	ILE	CA-C-N	7.32	127.32	119.78
45	BN	85	ILE	C-N-CA	7.32	127.32	119.78
12	CL	105	TYR	CB-CA-C	-7.29	108.16	116.54
1	AA	1201	A	C2'-C3'-O3'	7.26	120.40	109.50
12	AL	105	TYR	CB-CA-C	-7.26	108.19	116.54
2	AB	200	ILE	N-CA-C	7.26	119.53	108.71
16	CP	77	ALA	N-CA-C	-7.26	103.74	112.59
23	CW	71	G	N9-C1'-C2'	-7.25	101.13	112.00
1	AA	992	U	C2'-C3'-O3'	7.24	120.36	109.50
1	CA	60	A	C2'-C3'-O3'	7.23	120.34	109.50
4	AD	11	LEU	N-CA-C	-7.22	103.14	112.23
1	AA	60	A	C2'-C3'-O3'	7.21	120.31	109.50
1	CA	992	U	C2'-C3'-O3'	7.21	120.31	109.50
47	BP	59	LEU	N-CA-C	-7.20	104.44	112.57
2	CB	200	ILE	N-CA-C	7.20	119.43	108.71
4	CD	11	LEU	N-CA-C	-7.18	103.18	112.23
35	DA	221	A	C2'-C3'-O3'	7.17	120.26	109.50
57	BZ	61	LEU	CA-C-N	7.17	128.80	119.84
57	BZ	61	LEU	C-N-CA	7.17	128.80	119.84
2	AB	114	ARG	N-CA-C	-7.15	105.74	114.75
47	BP	67	MET	N-CA-C	-7.12	101.66	111.28
45	DN	85	ILE	CA-C-N	7.12	127.11	119.78
45	DN	85	ILE	C-N-CA	7.12	127.11	119.78
13	CM	60	VAL	N-CA-C	7.10	117.20	110.74
2	AB	156	LYS	N-CA-C	-7.09	103.93	112.59
8	AH	46	LYS	N-CA-C	-7.09	104.90	113.97
41	DG	174	GLU	N-CA-C	-7.09	103.60	111.82
13	AM	60	VAL	N-CA-C	7.08	117.18	110.74
1	AA	484	G	C2'-C3'-O3'	7.08	120.11	109.50
45	BN	35	ARG	N-CA-C	-7.07	100.06	110.52
16	CP	79	VAL	N-CA-C	-7.05	106.20	112.12
38	DD	212	SER	N-CA-C	-7.05	103.61	111.71
35	BA	71	A	C2'-C3'-O3'	7.03	120.05	109.50
2	CB	114	ARG	N-CA-C	-7.03	105.89	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	AH	100	ILE	CA-C-N	7.02	128.62	119.84
8	AH	100	ILE	C-N-CA	7.02	128.62	119.84
55	DX	36	LYS	N-CA-C	-7.02	103.56	111.14
35	DA	827	U	C2'-C3'-O3'	-7.00	103.20	113.70
4	CD	116	GLN	N-CA-C	-6.97	103.69	111.28
40	DF	71	GLY	N-CA-C	-6.95	105.61	114.37
51	DT	110	ILE	N-CA-C	-6.95	103.74	110.42
31	D6	24	GLU	N-CA-C	6.95	117.66	108.07
22	CV	1	G	N9-C1'-C2'	6.94	122.42	112.00
1	AA	1504	G	C2'-C3'-O3'	6.93	119.90	109.50
2	CB	156	LYS	N-CA-C	-6.92	104.15	112.59
35	BA	331	A	C4'-C3'-O3'	6.92	119.77	109.40
26	B1	72	GLU	N-CA-C	-6.91	103.83	111.36
35	BA	474	G	C2'-C3'-O3'	6.91	119.87	109.50
31	B6	24	GLU	N-CA-C	6.90	117.60	108.07
41	BG	118	ARG	N-CA-C	-6.90	105.39	113.88
23	CW	20	G	N9-C1'-C2'	6.90	124.35	114.00
35	DA	784	A	C4'-C3'-O3'	-6.89	102.66	113.00
39	BE	119	ARG	N-CA-C	-6.89	103.79	111.71
1	AA	1054	C	C2'-C3'-O3'	6.88	119.82	109.50
35	BA	221	A	C2'-C3'-O3'	6.87	119.81	109.50
4	AD	116	GLN	N-CA-C	-6.87	103.80	111.28
35	BA	1022	G	C4'-C3'-O3'	6.86	119.69	109.40
8	CH	100	ILE	CA-C-N	6.86	128.41	119.84
8	CH	100	ILE	C-N-CA	6.86	128.41	119.84
45	DN	25	ARG	N-CA-C	-6.85	104.18	112.54
35	DA	331	A	C4'-C3'-O3'	6.84	119.66	109.40
16	AP	79	VAL	N-CA-C	-6.83	106.37	111.90
1	CA	1504	G	C2'-C3'-O3'	6.82	119.73	109.50
11	AK	127	LYS	N-CA-C	-6.81	103.04	111.75
27	B2	7	ARG	N-CA-C	-6.80	103.86	111.28
23	AW	71	G	N9-C1'-C2'	-6.80	101.80	112.00
55	BX	5	TYR	N-CA-C	-6.80	104.73	113.16
48	BQ	38	GLU	CA-C-N	6.79	126.76	119.76
48	BQ	38	GLU	C-N-CA	6.79	126.76	119.76
45	BN	25	ARG	N-CA-C	-6.79	104.26	112.54
40	BF	71	GLY	N-CA-C	-6.79	105.82	114.37
56	BY	8	LYS	N-CA-C	6.79	119.46	109.69
20	CT	27	LYS	N-CA-C	-6.78	103.81	111.14
45	DN	35	ARG	N-CA-C	-6.78	100.48	110.52
40	BF	64	ILE	N-CA-C	6.76	116.91	110.42
20	AT	33	ILE	N-CA-C	-6.74	103.76	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	DF	64	ILE	N-CA-C	6.74	116.89	110.42
42	BH	153	LYS	CA-C-N	6.74	128.26	119.84
42	BH	153	LYS	C-N-CA	6.74	128.26	119.84
23	AW	20	G	N9-C1'-C2'	6.73	124.09	114.00
12	CL	76	ASN	N-CA-C	-6.73	104.05	113.20
55	BX	36	LYS	N-CA-C	-6.73	104.03	111.36
35	DA	512	G	C4'-C3'-O3'	-6.70	102.96	113.00
12	AL	76	ASN	N-CA-C	-6.68	104.12	113.20
8	CH	46	LYS	N-CA-C	-6.68	105.42	113.97
35	DA	1022	G	C4'-C3'-O3'	6.67	119.40	109.40
39	DE	65	GLY	N-CA-C	-6.67	104.01	115.61
54	DW	10	VAL	N-CA-C	6.66	123.19	109.34
35	DA	71	A	C2'-C3'-O3'	6.65	119.48	109.50
39	DE	137	HIS	CA-C-N	6.65	126.27	119.56
39	DE	137	HIS	C-N-CA	6.65	126.27	119.56
41	BG	125	PHE	N-CA-C	-6.65	103.52	111.69
22	AY	42	C	C3'-C2'-O2'	6.64	120.66	110.70
23	AW	35	U	C3'-C2'-O2'	6.64	120.66	110.70
51	BT	29	ARG	N-CA-C	6.64	124.94	110.80
54	BW	10	VAL	N-CA-C	6.63	123.13	109.34
11	CK	127	LYS	N-CA-C	-6.63	103.27	111.75
54	DW	51	LEU	N-CA-C	-6.63	102.50	112.04
26	D1	25	LYS	N-CA-C	-6.62	103.88	112.23
34	D9	34	GLN	N-CA-C	6.62	119.48	109.41
22	CY	58	C	C5'-C4'-C3'	6.62	125.92	116.00
56	DY	8	LYS	N-CA-C	6.61	119.21	109.69
35	BA	2031	A	C4'-C3'-O3'	-6.61	103.08	113.00
35	BA	1332	G	C2'-C3'-O3'	6.61	119.41	109.50
42	BH	158	HIS	N-CA-C	6.61	124.87	110.80
35	BA	1970	A	C5'-C4'-C3'	6.59	125.09	115.20
51	DT	125	ARG	N-CA-C	-6.59	101.48	111.56
1	CA	484	G	C2'-C3'-O3'	6.59	119.38	109.50
42	DH	153	LYS	CA-C-N	6.58	128.07	119.84
42	DH	153	LYS	C-N-CA	6.58	128.07	119.84
35	BA	512	G	C4'-C3'-O3'	-6.58	103.13	113.00
42	DH	158	HIS	N-CA-C	6.58	124.81	110.80
51	BT	9	LEU	N-CA-C	-6.57	105.09	113.23
1	CA	115	G	C4'-C3'-O3'	6.56	119.25	109.40
12	AL	11	VAL	N-CA-C	-6.55	104.10	110.72
35	BA	1427	A	C2'-C3'-O3'	6.55	119.32	109.50
41	DG	167	GLU	N-CA-C	-6.53	103.85	110.97
47	BP	32	THR	N-CA-C	6.53	121.26	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	DA	34	C	C4'-C3'-O3'	-6.53	103.21	113.00
27	B2	31	GLU	N-CA-C	-6.51	104.26	111.36
39	BE	65	GLY	N-CA-C	-6.51	104.28	115.61
40	DF	183	VAL	N-CA-C	6.51	117.26	110.62
40	DF	20	LEU	N-CA-C	6.49	116.85	108.34
3	CC	88	ARG	N-CA-C	-6.49	104.46	112.38
51	DT	29	ARG	N-CA-C	6.49	124.62	110.80
26	D1	17	SER	N-CA-C	-6.49	98.16	108.73
47	DP	32	THR	N-CA-C	6.47	121.03	113.20
38	BD	229	VAL	CB-CA-C	-6.47	103.56	112.04
51	DT	30	VAL	N-CA-C	6.46	122.78	109.34
3	AC	88	ARG	N-CA-C	-6.46	104.50	112.38
57	BZ	21	ALA	N-CA-C	-6.46	105.15	113.16
1	CA	1054	C	C2'-C3'-O3'	6.45	119.17	109.50
20	CT	33	ILE	N-CA-C	-6.45	104.05	110.30
30	B5	46	CYS	CA-C-N	6.43	126.19	119.05
30	B5	46	CYS	C-N-CA	6.43	126.19	119.05
51	BT	125	ARG	N-CA-C	-6.43	101.72	111.56
35	DA	587	C	C2'-C3'-O3'	6.43	119.14	109.50
35	BA	34	C	C4'-C3'-O3'	-6.42	103.37	113.00
51	BT	59	THR	N-CA-C	-6.42	99.84	110.17
40	BF	20	LEU	N-CA-C	6.42	116.74	108.34
12	AL	66	VAL	N-CA-C	6.41	116.35	108.53
54	BW	51	LEU	N-CA-C	-6.40	102.82	112.04
51	DT	9	LEU	N-CA-C	-6.40	105.30	113.23
51	BT	30	VAL	N-CA-C	6.39	122.64	109.34
20	AT	27	LYS	N-CA-C	-6.39	104.24	111.14
1	CA	1281	U	C2'-C3'-O3'	6.39	119.08	109.50
47	DP	66	GLY	N-CA-C	-6.39	101.57	112.30
55	DX	5	TYR	N-CA-C	-6.39	105.24	113.16
40	BF	120	GLU	N-CA-C	-6.38	105.53	113.38
57	DZ	61	LEU	CA-C-N	6.37	127.80	119.84
57	DZ	61	LEU	C-N-CA	6.37	127.80	119.84
7	AG	87	VAL	N-CA-C	6.37	114.94	109.02
34	B9	34	GLN	N-CA-C	6.37	119.08	109.41
12	CL	11	VAL	N-CA-C	-6.37	104.13	110.62
35	BA	614(C)	A	C2'-C3'-O3'	6.36	119.05	109.50
57	DZ	180	VAL	N-CA-C	-6.36	106.31	112.29
38	BD	171	ASP	N-CA-C	-6.35	105.63	113.19
43	DI	57	ARG	N-CA-C	-6.35	105.66	113.41
51	BT	14	TYR	N-CA-C	-6.35	104.16	112.41
43	DI	50	ARG	CD-NE-CZ	6.34	133.28	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	CP	75	ARG	N-CA-C	-6.34	104.45	111.36
43	BI	50	ARG	CD-NE-CZ	6.33	133.26	124.40
47	BP	66	GLY	N-CA-C	-6.31	101.70	112.30
7	CG	87	VAL	N-CA-C	6.31	114.89	109.02
22	AY	25	A	N9-C1'-C2'	6.31	121.46	112.00
45	DN	18	ALA	N-CA-C	-6.30	101.92	110.68
40	BF	183	VAL	N-CA-C	6.30	117.04	110.62
1	AA	560	U	C2'-C3'-O3'	6.29	118.94	109.50
51	DT	59	THR	N-CA-C	-6.28	100.06	110.17
1	AA	115	G	C4'-C3'-O3'	6.28	118.82	109.40
45	BN	110	GLY	CA-C-N	6.28	125.85	119.19
45	BN	110	GLY	C-N-CA	6.28	125.85	119.19
12	AL	56	ALA	N-CA-C	6.28	116.85	108.38
43	BI	50	ARG	NE-CZ-NH2	-6.28	113.55	119.20
18	CR	70	ILE	N-CA-C	-6.28	104.16	111.00
42	BH	107	VAL	N-CA-C	6.27	115.89	106.42
1	AA	1281	U	C2'-C3'-O3'	6.27	118.90	109.50
26	B1	61	ARG	N-CA-C	-6.27	95.42	107.57
35	DA	1332	G	C2'-C3'-O3'	6.26	118.90	109.50
35	BA	2689	U	C2'-C3'-O3'	6.26	118.89	109.50
43	DI	50	ARG	NE-CZ-NH2	-6.26	113.57	119.20
35	DA	1970	A	C5'-C4'-C3'	6.25	124.58	115.20
40	DF	120	GLU	N-CA-C	-6.25	105.69	113.38
40	DF	86	GLY	N-CA-C	6.25	120.62	112.25
43	BI	57	ARG	N-CA-C	-6.25	105.79	113.41
45	BN	18	ALA	N-CA-C	-6.24	102.01	110.68
51	BT	110	ILE	N-CA-C	-6.23	104.44	110.42
23	CW	41	C	N1-C1'-C2'	6.22	121.33	112.00
38	DD	259	THR	N-CA-C	6.22	122.33	114.31
33	B8	60	LEU	N-CA-C	-6.20	103.06	111.55
26	D1	29	GLY	N-CA-C	6.18	118.97	110.56
18	AR	70	ILE	N-CA-C	-6.18	104.26	111.00
39	DE	119	ARG	N-CA-C	-6.18	104.60	111.71
26	B1	4	VAL	N-CA-C	6.18	117.19	108.17
30	D5	46	CYS	CA-C-N	6.17	126.07	119.28
30	D5	46	CYS	C-N-CA	6.17	126.07	119.28
57	DZ	160	GLY	N-CA-C	-6.17	106.72	115.30
35	BA	784	A	C4'-C3'-O3'	-6.16	103.76	113.00
51	DT	14	TYR	N-CA-C	-6.16	104.41	112.41
1	CA	560	U	C2'-C3'-O3'	6.15	118.73	109.50
42	DH	107	VAL	N-CA-C	6.15	115.70	106.42
23	AW	42	C	C5'-C4'-C3'	-6.14	106.78	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	CD	27	TYR	N-CA-C	-6.14	105.92	113.41
50	DS	106	ARG	N-CA-C	-6.14	105.75	113.18
48	DQ	38	GLU	CA-C-N	6.13	126.08	119.76
48	DQ	38	GLU	C-N-CA	6.13	126.08	119.76
4	AD	27	TYR	N-CA-C	-6.12	105.95	113.41
4	AD	208	SER	N-CA-C	-6.12	105.66	112.57
57	DZ	109	ALA	N-CA-C	-6.11	105.54	112.87
35	BA	1053	C	N1-C1'-C2'	6.11	121.17	112.00
9	CI	115	GLY	N-CA-C	-6.11	105.67	115.08
35	DA	1053	C	N1-C1'-C2'	6.10	121.15	112.00
33	D8	60	LEU	N-CA-C	-6.10	103.20	111.55
40	DF	163	VAL	N-CA-C	-6.09	103.43	111.05
16	AP	75	ARG	N-CA-C	-6.09	104.72	111.36
22	AV	26	G	C5'-C4'-C3'	-6.09	106.86	116.00
32	B7	4	THR	N-CA-C	6.09	117.92	111.28
35	DA	2031	A	C4'-C3'-O3'	-6.08	103.89	113.00
32	D7	4	THR	N-CA-C	6.07	117.89	111.28
35	DA	74	A	C4'-C3'-O3'	6.07	118.50	109.40
47	DP	64	LYS	N-CA-C	-6.06	105.14	112.54
7	CG	75	VAL	N-CA-C	6.05	117.72	108.71
41	DG	162	THR	N-CA-C	-6.04	105.76	113.01
35	BA	74	A	C4'-C3'-O3'	6.04	118.47	109.40
1	CA	1498	U	C2'-C3'-O3'	6.04	118.57	109.50
12	CL	66	VAL	N-CA-C	6.04	115.90	108.53
35	BA	587	C	C2'-C3'-O3'	6.03	118.55	109.50
42	BH	7	LEU	CA-C-N	6.03	127.38	119.84
42	BH	7	LEU	C-N-CA	6.03	127.38	119.84
2	CB	122	PHE	N-CA-C	-6.03	106.18	112.93
2	AB	153	ARG	N-CA-C	-6.02	107.16	114.75
23	CW	71	G	C4'-C3'-O3'	6.02	122.03	113.00
26	D1	90	ILE	N-CA-C	-6.02	104.64	110.72
47	BP	15	ARG	N-CA-C	6.02	118.76	109.07
35	DA	272(B)	G	C5'-C4'-C3'	6.02	125.03	116.00
38	DD	229	VAL	CB-CA-C	-6.02	104.16	112.04
35	BA	1992	G	C4'-C3'-O3'	6.02	118.43	109.40
7	AG	75	VAL	N-CA-C	6.01	117.67	108.71
2	CB	153	ARG	N-CA-C	-6.01	107.17	114.75
38	BD	212	SER	N-CA-C	-6.01	105.05	112.38
42	DH	7	LEU	CA-C-N	6.01	127.35	119.84
42	DH	7	LEU	C-N-CA	6.01	127.35	119.84
57	DZ	35	ARG	N-CA-C	6.01	118.91	108.76
1	CA	250	A	C2'-C3'-O3'	6.01	118.51	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	88	ALA	N-CA-C	-5.99	104.81	114.09
50	BS	106	ARG	N-CA-C	-5.99	105.94	113.18
51	DT	23	ARG	CA-C-N	5.98	127.31	119.84
51	DT	23	ARG	C-N-CA	5.98	127.31	119.84
49	BR	58	GLY	N-CA-C	5.98	127.35	113.18
49	DR	58	GLY	N-CA-C	5.97	127.33	113.18
1	AA	1049	U	C2'-C3'-O3'	5.97	118.45	109.50
57	DZ	124	ILE	N-CA-C	5.96	117.07	108.48
57	DZ	18	LEU	N-CA-C	-5.94	103.57	111.24
12	CL	46	LYS	CB-CA-C	-5.94	108.52	117.07
40	BF	163	VAL	N-CA-C	-5.94	103.63	111.05
35	BA	2405	G	C2'-C3'-O3'	5.93	118.40	109.50
38	BD	148	GLU	N-CA-C	-5.93	99.91	109.58
5	AE	131	ILE	N-CA-C	-5.92	104.85	110.42
47	DP	15	ARG	N-CA-C	5.92	118.61	109.07
2	AB	122	PHE	N-CA-C	-5.92	106.30	112.93
22	CY	56	U	O4'-C4'-C3'	-5.91	98.09	104.00
38	DD	53	PHE	N-CA-C	5.90	119.57	111.54
12	CL	56	ALA	N-CA-C	5.90	117.21	108.60
2	AB	118	LEU	N-CA-C	-5.89	104.99	111.82
16	AP	71	ARG	N-CA-C	-5.88	104.87	111.28
53	DV	20	LEU	CB-CA-C	-5.88	108.61	117.07
9	AI	115	GLY	N-CA-C	-5.88	106.03	115.08
31	D6	39	TYR	N-CA-C	5.88	115.85	108.45
40	BF	86	GLY	N-CA-C	5.87	120.12	112.25
42	DH	11	VAL	N-CA-C	5.87	113.68	108.63
48	BQ	124	LYS	N-CA-C	-5.87	106.46	113.97
43	DI	65	ALA	N-CA-C	-5.86	105.89	113.16
51	BT	23	ARG	CA-C-N	5.86	127.16	119.84
51	BT	23	ARG	C-N-CA	5.86	127.16	119.84
1	CA	1049	U	C2'-C3'-O3'	5.86	118.29	109.50
42	BH	11	VAL	CA-C-N	5.86	127.16	119.84
42	BH	11	VAL	C-N-CA	5.86	127.16	119.84
41	DG	29	TRP	N-CA-C	-5.85	105.80	113.17
35	BA	272(B)	G	C5'-C4'-C3'	5.84	124.76	116.00
35	DA	1427	A	C2'-C3'-O3'	5.84	118.26	109.50
23	AW	41	C	N1-C1'-C2'	5.83	120.75	112.00
2	CB	88	ALA	N-CA-C	-5.83	105.05	114.09
35	DA	2126	A	C2'-C3'-O3'	5.83	118.25	109.50
22	AY	78	A	C4'-C3'-O3'	5.83	121.75	113.00
35	BA	1365	A	C5'-C4'-C3'	5.81	124.72	116.00
2	CB	118	LEU	N-CA-C	-5.81	105.08	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BD	44	ASN	N-CA-C	5.80	116.75	108.74
35	BA	2126	A	C2'-C3'-O3'	5.80	118.20	109.50
39	BE	73	GLU	CA-C-N	5.80	125.82	119.90
39	BE	73	GLU	C-N-CA	5.80	125.82	119.90
42	DH	67	LEU	N-CA-C	-5.80	104.56	111.69
38	BD	53	PHE	N-CA-C	5.79	119.39	111.39
18	CR	54	ARG	N-CA-C	-5.79	106.45	112.93
46	DO	40	VAL	N-CA-C	-5.78	101.26	108.89
43	BI	50	ARG	NE-CZ-NH1	5.78	127.28	121.50
35	DA	2405	G	C2'-C3'-O3'	5.78	118.17	109.50
47	BP	64	LYS	N-CA-C	-5.77	105.50	112.54
28	D3	25	ALA	N-CA-C	-5.77	104.99	111.28
17	CQ	29	HIS	CA-C-N	5.77	127.05	119.84
17	CQ	29	HIS	C-N-CA	5.77	127.05	119.84
57	DZ	19	ARG	N-CA-C	-5.76	104.36	111.33
12	AL	46	LYS	CA-C-O	5.76	121.28	117.94
17	AQ	89	LEU	N-CA-C	5.74	118.03	111.02
22	CY	57	U	N1-C1'-C2'	5.74	120.62	112.00
22	CY	25	A	N9-C1'-C2'	5.74	120.61	112.00
7	AG	148	ASN	N-CA-C	-5.74	106.89	112.97
57	DZ	16	SER	N-CA-C	-5.74	106.07	114.39
53	DV	20	LEU	CA-C-O	5.73	121.26	117.94
12	CL	46	LYS	CA-C-O	5.72	121.26	117.94
1	CA	1285	A	C2'-C3'-O3'	5.72	118.08	109.50
31	D6	29	ASN	N-CA-C	5.72	117.21	110.97
57	DZ	106	GLY	N-CA-C	5.71	118.71	111.85
48	DQ	124	LYS	N-CA-C	-5.71	106.30	113.72
35	DA	1992	G	C4'-C3'-O3'	5.71	117.96	109.40
40	BF	23	ASP	N-CA-C	-5.70	106.40	113.19
22	AV	20	G	N9-C1'-C2'	5.70	122.55	114.00
5	CE	131	ILE	N-CA-C	-5.70	105.06	110.42
43	BI	139	GLN	N-CA-C	5.69	118.11	109.63
40	DF	12	LEU	N-CA-C	-5.68	106.02	113.12
22	CY	56	U	C1'-O4'-C4'	5.68	115.58	109.90
53	BV	20	LEU	CB-CA-C	-5.68	108.89	117.07
43	DI	139	GLN	N-CA-C	5.68	118.09	109.63
38	DD	210	GLY	N-CA-C	-5.68	99.73	113.18
6	CF	25	ILE	N-CA-C	-5.67	104.97	110.42
38	BD	259	THR	N-CA-C	5.67	121.76	114.56
35	DA	1365	A	C5'-C4'-C3'	5.67	124.50	116.00
38	BD	210	GLY	N-CA-C	-5.67	99.75	113.18
49	DR	19	ALA	N-CA-C	-5.67	105.47	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	1495	A	N9-C1'-C2'	5.66	120.49	112.00
12	AL	46	LYS	CB-CA-C	-5.65	108.93	117.07
35	DA	614(C)	A	C2'-C3'-O3'	5.65	117.98	109.50
31	B6	39	TYR	N-CA-C	5.65	115.48	108.19
7	CG	148	ASN	N-CA-C	-5.65	106.98	112.97
43	BI	65	ALA	N-CA-C	-5.65	106.16	113.16
52	DU	57	PHE	N-CA-C	-5.65	106.06	113.12
5	AE	67	VAL	N-CA-C	5.64	116.48	108.42
40	BF	12	LEU	N-CA-C	-5.63	106.08	113.12
28	B3	11	SER	CA-C-N	5.63	125.33	119.64
28	B3	11	SER	C-N-CA	5.63	125.33	119.64
38	BD	267	SER	N-CA-C	-5.63	103.48	110.41
49	BR	19	ALA	N-CA-C	-5.63	105.51	112.38
34	B9	3	VAL	N-CA-C	5.63	116.05	108.17
35	DA	2689	U	C2'-C3'-O3'	5.62	117.94	109.50
19	CS	13	ASP	N-CA-C	5.62	117.87	111.02
7	AG	129	GLU	N-CA-C	-5.61	107.02	112.97
16	CP	71	ARG	N-CA-C	-5.61	105.16	111.28
35	DA	1495	A	N9-C1'-C2'	5.61	120.42	112.00
26	B1	91	LYS	N-CA-C	-5.61	105.08	111.14
3	AC	43	LEU	N-CA-C	-5.61	106.40	113.18
35	BA	494	G	C5'-C4'-C3'	-5.61	107.59	116.00
22	CY	56	U	O5'-C5'-C4'	-5.61	103.09	111.50
1	AA	250	A	C2'-C3'-O3'	5.59	117.88	109.50
43	BI	133	HIS	N-CA-C	5.58	122.14	109.81
22	CY	56	U	C1'-C2'-O2'	5.58	116.77	108.40
49	BR	9	LYS	N-CA-C	5.57	118.15	110.35
35	DA	2521	C	C5'-C4'-C3'	-5.57	107.64	116.00
50	DS	18	ILE	N-CA-C	-5.57	105.76	113.00
52	BU	50	ARG	N-CA-C	-5.57	105.74	112.54
49	DR	9	LYS	N-CA-C	5.57	118.15	110.35
35	DA	2031	A	N9-C1'-C2'	5.57	120.35	112.00
41	BG	59	GLU	N-CA-C	-5.56	106.62	113.41
43	DI	58	LEU	N-CA-C	-5.56	106.33	113.23
50	BS	18	ILE	N-CA-C	-5.55	105.78	113.00
54	DW	101	SER	N-CA-C	5.55	118.63	109.85
46	BO	40	VAL	N-CA-C	-5.55	100.43	108.87
2	AB	113	HIS	N-CA-C	-5.55	105.71	113.37
5	CE	67	VAL	N-CA-C	5.55	116.36	108.42
7	CG	129	GLU	N-CA-C	-5.54	107.09	112.97
27	D2	53	LEU	N-CA-C	-5.54	105.62	112.38
18	AR	84	LYS	N-CA-C	5.54	117.88	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	DA	781	A	C4'-C3'-O3'	-5.53	104.71	113.00
2	CB	113	HIS	N-CA-C	-5.52	105.75	113.37
18	CR	84	LYS	N-CA-C	5.52	117.86	110.35
41	DG	53	LEU	N-CA-C	5.52	119.20	111.74
41	BG	46	ALA	N-CA-C	-5.52	103.94	111.56
39	DE	73	GLU	CA-C-N	5.52	125.53	119.90
39	DE	73	GLU	C-N-CA	5.52	125.53	119.90
38	DD	83	GLU	N-CA-C	5.51	117.79	109.41
43	DI	50	ARG	N-CA-C	-5.51	106.41	114.39
7	CG	143	ARG	N-CA-C	-5.50	104.92	111.03
54	DW	90	ARG	N-CA-C	-5.50	105.87	112.58
1	AA	1225	A	N9-C1'-C2'	5.49	120.23	112.00
27	B2	5	GLU	N-CA-C	-5.49	105.46	111.82
22	CV	20	G	N9-C1'-C2'	5.49	122.23	114.00
43	DI	28	ASN	N-CA-C	5.49	119.50	112.26
38	DD	193	VAL	N-CA-C	5.48	116.77	109.37
17	CQ	89	LEU	N-CA-C	5.48	117.70	111.02
52	DU	50	ARG	N-CA-C	-5.48	105.86	112.54
31	B6	29	ASN	N-CA-C	5.47	116.93	110.97
43	BI	28	ASN	N-CA-C	5.47	119.48	112.26
23	CW	40	A	C2'-C3'-O3'	5.47	121.90	113.70
54	BW	101	SER	N-CA-C	5.47	118.49	109.85
38	DD	267	SER	N-CA-C	-5.47	103.69	110.41
41	DG	46	ALA	N-CA-C	-5.46	103.89	110.44
43	DI	50	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	CA	1225	A	N9-C1'-C2'	5.46	120.19	112.00
40	DF	23	ASP	N-CA-C	-5.46	106.69	113.19
38	BD	193	VAL	N-CA-C	5.46	117.49	109.63
32	D7	6	GLN	CA-C-N	5.46	125.47	119.90
32	D7	6	GLN	C-N-CA	5.46	125.47	119.90
42	DH	167	GLU	CA-C-N	5.46	126.82	120.98
42	DH	167	GLU	C-N-CA	5.46	126.82	120.98
33	D8	54	GLU	N-CA-C	-5.45	105.44	111.71
35	BA	1210	A	C2'-C3'-O3'	5.45	117.67	109.50
51	BT	80	SER	N-CA-C	5.45	121.85	109.81
1	CA	119	A	C2'-C3'-O3'	5.45	117.67	109.50
39	DE	10	GLY	N-CA-C	-5.45	106.58	112.08
1	AA	1285	A	C2'-C3'-O3'	5.44	117.67	109.50
35	DA	272(B)	G	C2'-C3'-O3'	-5.44	105.54	113.70
1	AA	119	A	C2'-C3'-O3'	5.44	117.66	109.50
6	AF	25	ILE	N-CA-C	-5.44	105.20	110.42
23	CW	78	A	C2'-C3'-O3'	5.43	121.84	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	2031	A	N9-C1'-C2'	5.42	120.14	112.00
13	CM	93	ARG	N-CA-C	-5.42	106.50	113.01
22	CV	52	C	N1-C1'-C2'	5.42	120.14	112.00
40	BF	194	MET	N-CA-C	5.42	117.74	108.90
25	B0	12	ASN	N-CA-C	5.42	119.46	112.41
42	DH	11	VAL	CA-C-N	5.42	126.61	119.84
42	DH	11	VAL	C-N-CA	5.42	126.61	119.84
38	BD	263	ARG	N-CA-C	5.42	119.64	113.19
38	DD	148	GLU	N-CA-C	-5.42	100.75	109.58
42	BH	67	LEU	N-CA-C	-5.41	105.03	111.69
38	BD	269	PHE	N-CA-C	-5.41	106.54	114.39
43	BI	58	LEU	N-CA-C	-5.41	106.52	113.23
13	AM	93	ARG	N-CA-C	-5.40	106.53	113.01
28	B3	25	ALA	N-CA-C	-5.40	105.39	111.28
18	CR	69	THR	N-CA-C	-5.40	107.95	114.75
1	AA	366	C	C2'-C3'-O3'	5.40	117.60	109.50
35	BA	2521	C	C5'-C4'-C3'	-5.40	107.90	116.00
52	DU	25	TRP	N-CA-C	5.39	118.34	109.76
5	CE	118	ILE	N-CA-C	5.39	115.32	107.88
38	BD	43	ARG	N-CA-C	5.39	119.56	113.15
2	AB	119	GLU	N-CA-C	-5.39	105.52	111.71
8	AH	77	GLU	N-CA-C	-5.39	101.48	109.94
38	DD	244	ARG	C-N-CD	-5.39	108.75	120.60
18	AR	69	THR	N-CA-C	-5.38	107.73	114.56
17	AQ	29	HIS	CA-C-N	5.38	126.56	119.84
17	AQ	29	HIS	C-N-CA	5.38	126.56	119.84
23	AW	36	C	C3'-C2'-O2'	5.37	118.76	110.70
42	BH	167	GLU	CA-C-N	5.37	126.73	120.98
42	BH	167	GLU	C-N-CA	5.37	126.73	120.98
3	CC	43	LEU	N-CA-C	-5.37	106.68	113.18
1	AA	243	A	C2'-C3'-O3'	5.36	117.54	109.50
20	AT	12	ALA	N-CA-C	-5.36	105.88	112.90
1	CA	243	A	C2'-C3'-O3'	5.36	117.54	109.50
18	CR	44	LEU	N-CA-C	5.36	119.12	112.59
26	D1	91	LYS	N-CA-C	-5.35	105.36	111.14
57	DZ	129	SER	CA-C-N	5.35	125.68	119.47
57	DZ	129	SER	C-N-CA	5.35	125.68	119.47
38	BD	230	ASP	N-CA-C	5.35	118.27	111.69
38	DD	263	ARG	N-CA-C	5.35	119.55	113.19
45	DN	110	GLY	CA-C-N	5.35	125.16	119.28
45	DN	110	GLY	C-N-CA	5.35	125.16	119.28
28	D3	11	SER	CA-C-N	5.34	125.04	119.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	D3	11	SER	C-N-CA	5.34	125.04	119.64
52	BU	25	TRP	N-CA-C	5.34	118.26	109.76
23	AW	71	G	C4'-C3'-O3'	5.34	121.01	113.00
6	AF	15	ASP	N-CA-C	-5.33	103.10	110.35
31	D6	17	LYS	N-CA-C	-5.33	106.73	113.23
22	CV	38	U	C5'-C4'-C3'	-5.33	108.01	116.00
4	CD	208	SER	N-CA-C	-5.33	106.55	112.57
26	D1	82	LEU	N-CA-C	5.32	117.29	108.13
40	DF	154	VAL	N-CA-C	5.32	116.39	108.46
1	AA	266	G	C2'-C3'-O3'	5.32	121.68	113.70
40	DF	68	LYS	N-CA-C	5.31	117.03	108.32
38	BD	231	HIS	N-CA-CB	-5.31	105.52	111.10
53	BV	20	LEU	CA-C-O	5.31	121.02	117.94
12	AL	47	LYS	N-CA-C	5.31	121.54	109.81
25	D0	12	ASN	N-CA-C	5.31	119.31	112.41
41	BG	55	LYS	N-CA-C	-5.30	105.41	111.14
41	DG	144	ILE	N-CA-C	5.30	116.22	108.53
18	AR	54	ARG	N-CA-C	-5.30	107.00	112.93
40	DF	194	MET	N-CA-C	5.30	117.54	108.90
8	AH	42	GLU	N-CA-C	-5.30	108.08	114.75
8	CH	77	GLU	N-CA-C	-5.29	101.63	109.94
11	CK	116	HIS	N-CA-C	-5.29	106.00	113.20
45	DN	132	ALA	N-CA-C	-5.29	105.53	112.72
35	BA	603	A	C2'-C3'-O3'	5.29	117.43	109.50
45	BN	132	ALA	N-CA-C	-5.29	105.53	112.72
2	CB	119	GLU	N-CA-C	-5.29	105.63	111.71
12	CL	47	LYS	N-CA-C	5.29	121.50	109.81
7	AG	143	ARG	N-CA-C	-5.28	105.17	111.03
42	BH	11	VAL	N-CA-C	5.28	113.17	108.63
1	AA	563	A	N9-C1'-C2'	5.27	119.91	112.00
23	AW	13	U	C3'-C2'-O2'	5.27	118.60	110.70
43	BI	50	ARG	N-CA-C	-5.26	106.76	114.39
51	BT	94	ALA	N-CA-C	-5.26	102.60	110.23
20	CT	12	ALA	N-CA-C	-5.26	106.00	112.90
35	BA	272(B)	G	C2'-C3'-O3'	-5.26	105.81	113.70
35	DA	494	G	C5'-C4'-C3'	-5.26	108.11	116.00
35	DA	2602	A	C5'-C4'-C3'	5.26	123.09	115.20
11	AK	116	HIS	N-CA-C	-5.25	106.06	113.20
19	AS	13	ASP	N-CA-C	5.24	117.42	111.02
21	AU	8	THR	N-CA-C	5.24	115.97	108.74
22	CV	70	G	N9-C1'-C2'	-5.24	104.14	112.00
22	CY	27	C	C2'-C3'-O3'	5.24	121.56	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BS	55	ALA	N-CA-C	-5.23	106.97	113.19
35	DA	34	C	N1-C1'-C2'	5.23	119.85	112.00
42	BH	139	GLN	N-CA-C	-5.23	105.48	111.07
52	BU	57	PHE	N-CA-C	-5.23	105.18	112.45
35	BA	1819	A	C4'-C3'-C2'	5.22	107.82	102.60
3	CC	21	ARG	N-CA-C	5.22	116.90	108.34
4	AD	198	VAL	N-CA-C	5.22	115.79	108.17
40	DF	195	ASP	N-CA-C	-5.22	102.67	110.23
37	BC	190	ILE	N-CA-C	-5.21	105.39	113.16
2	AB	164	VAL	N-CA-C	5.21	117.25	108.81
22	CY	78	A	C4'-C3'-O3'	5.21	120.82	113.00
38	DD	44	ASN	N-CA-C	5.21	115.41	108.38
40	BF	63	LYS	N-CA-C	-5.21	101.48	109.76
40	BF	68	LYS	N-CA-C	5.21	116.86	108.32
9	AI	61	ALA	N-CA-C	5.21	117.22	108.73
41	BG	91	ARG	N-CA-C	5.20	116.98	108.76
10	AJ	55	LYS	N-CA-C	5.20	115.91	107.23
35	BA	1598	C	C5'-C4'-C3'	-5.20	108.20	116.00
38	DD	171	ASP	N-CA-C	-5.20	106.77	113.01
57	DZ	17	ALA	N-CA-C	-5.20	105.68	112.23
23	CW	35	U	C3'-C2'-O2'	5.19	118.49	110.70
8	CH	42	GLU	N-CA-C	-5.19	108.21	114.75
40	BF	154	VAL	N-CA-C	5.19	116.19	108.46
22	CY	10	G	N9-C1'-C2'	5.18	119.78	112.00
35	BA	781	A	C4'-C3'-O3'	-5.18	105.23	113.00
54	BW	42	ARG	N-CA-C	-5.18	105.76	111.71
48	BQ	132	VAL	N-CA-C	5.17	114.84	108.53
51	BT	15	VAL	N-CA-C	5.17	115.76	109.30
35	DA	603	A	C2'-C3'-O3'	5.17	117.26	109.50
35	DA	2611	U	C5'-C4'-O4'	-5.17	102.05	109.80
49	DR	72	ASP	N-CA-C	5.17	117.16	109.25
35	BA	2714	G	C5'-C4'-C3'	-5.17	108.25	116.00
31	B6	21	TYR	N-CA-C	5.16	118.04	109.94
38	BD	83	GLU	N-CA-C	5.15	117.24	109.41
51	BT	93	ARG	N-CA-C	-5.15	106.30	112.58
35	BA	526	A	N9-C1'-C2'	5.15	119.72	112.00
51	DT	93	ARG	N-CA-C	-5.15	106.30	112.58
9	CI	61	ALA	N-CA-C	5.14	117.11	108.73
37	DC	190	ILE	N-CA-C	-5.14	105.50	113.16
31	D6	21	TYR	N-CA-C	5.14	118.01	109.94
49	BR	72	ASP	N-CA-C	5.14	117.11	109.25
35	BA	34	C	N1-C1'-C2'	5.14	119.71	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	D9	3	VAL	N-CA-C	5.14	115.36	108.17
57	BZ	155	LEU	N-CA-C	5.13	116.64	108.79
49	BR	5	LYS	N-CA-C	-5.13	99.88	110.80
48	BQ	46	GLN	N-CA-C	-5.12	105.39	111.69
49	DR	12	ARG	N-CA-C	-5.12	99.91	110.80
47	BP	60	MET	N-CA-C	-5.11	107.04	113.28
39	DE	118	LYS	N-CA-C	-5.11	99.91	110.80
26	D1	87	PRO	N-CA-C	-5.11	107.08	114.18
1	CA	266	G	C2'-C3'-O3'	5.11	121.37	113.70
37	DC	220	GLY	CA-C-N	5.11	125.83	120.11
37	DC	220	GLY	C-N-CA	5.11	125.83	120.11
18	AR	44	LEU	N-CA-C	5.11	118.82	112.59
39	DE	117	MET	N-CA-C	-5.11	99.92	110.80
33	B8	54	GLU	N-CA-C	-5.10	105.84	111.71
51	DT	99	LEU	N-CA-C	5.10	116.53	109.54
11	AK	123	LYS	N-CA-C	-5.10	107.18	113.41
17	AQ	23	VAL	N-CA-C	5.10	115.19	107.75
3	CC	194	GLY	N-CA-C	5.09	117.74	110.46
42	BH	101	ARG	N-CA-C	-5.09	107.03	113.18
39	DE	44	TYR	N-CA-C	5.09	121.64	110.80
2	AB	108	ILE	N-CA-C	-5.08	105.44	112.50
11	CK	123	LYS	N-CA-C	-5.08	107.21	113.41
52	BU	86	ALA	N-CA-C	-5.08	104.82	111.02
8	CH	3	THR	N-CA-C	-5.08	105.44	110.97
49	BR	12	ARG	N-CA-C	-5.07	99.99	110.80
31	B6	17	LYS	N-CA-C	-5.07	107.04	113.23
37	BC	220	GLY	CA-C-N	5.07	125.79	120.11
37	BC	220	GLY	C-N-CA	5.07	125.79	120.11
22	AV	6	C	N1-C1'-C2'	5.07	119.60	112.00
57	BZ	176	PRO	CA-C-N	5.07	126.17	119.84
57	BZ	176	PRO	C-N-CA	5.07	126.17	119.84
50	DS	56	LEU	N-CA-C	-5.07	107.08	114.12
43	BI	63	ALA	N-CA-C	-5.06	106.24	112.72
1	CA	366	C	C2'-C3'-O3'	5.06	117.09	109.50
23	AW	40	A	C2'-C3'-O3'	5.06	121.29	113.70
51	BT	99	LEU	N-CA-C	5.06	116.47	109.54
2	CB	164	VAL	N-CA-C	5.05	116.99	108.81
38	DD	43	ARG	N-CA-C	5.05	119.16	113.15
43	DI	133	HIS	N-CA-C	5.05	120.97	109.81
49	DR	5	LYS	N-CA-C	-5.05	100.05	110.80
23	CW	7	U	N1-C1'-C2'	5.05	121.57	114.00
22	AY	27	C	C2'-C3'-O3'	5.04	121.27	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	CD	198	VAL	N-CA-C	5.04	115.53	108.17
35	DA	1210	A	C2'-C3'-O3'	5.04	117.05	109.50
16	CP	56	ALA	N-CA-C	-5.03	106.83	112.87
35	DA	669	G	N9-C1'-C2'	5.03	119.55	112.00
23	AW	26	G	C3'-C2'-O2'	5.03	118.25	110.70
57	DZ	67	LEU	N-CA-C	5.03	116.93	110.39
5	AE	118	ILE	N-CA-C	5.03	114.81	107.88
32	D7	42	LEU	N-CA-C	-5.03	106.66	112.89
40	BF	195	ASP	N-CA-C	-5.02	102.95	110.23
54	BW	55	ALA	N-CA-C	-5.02	105.70	111.07
1	CA	563	A	N9-C1'-C2'	5.01	119.52	112.00
35	DA	1820	U	C4'-C3'-C2'	5.01	107.61	102.60
22	CY	56	U	O4'-C1'-C2'	-5.01	102.59	107.60
6	CF	15	ASP	N-CA-C	-5.01	102.97	110.23
38	DD	269	PHE	N-CA-C	-5.00	107.16	114.12
35	DA	1970	A	C5'-C4'-O4'	5.00	116.60	109.10

All (13) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	AV	36	AG9	C4
22	AY	36	AG9	C4
35	BA	752	A	C3'
35	BA	790	C	C3'
35	BA	1799	G	C3'
35	BA	1819	A	C3'
35	BA	1820	U	C3'
22	CV	36	AG9	C4
22	CY	36	AG9	C4
35	DA	752	A	C3'
35	DA	790	C	C3'
35	DA	1799	G	C3'
35	DA	1820	U	C3'

All (219) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1054	C	Sidechain
1	AA	1077	G	Sidechain
1	AA	1196	U	Sidechain
1	AA	1408	A	Sidechain
1	AA	1414	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1493	A	Sidechain
1	AA	1498	U	Sidechain
1	AA	265	G	Sidechain
1	AA	292	G	Sidechain
1	AA	387	U	Sidechain
1	AA	436	C	Sidechain
1	AA	484	G	Sidechain
1	AA	494	U	Sidechain
1	AA	587	G	Sidechain
1	AA	697	U	Sidechain
1	AA	832	C	Sidechain
1	AA	898	G	Sidechain
1	AA	97	G	Sidechain
22	AV	1	G	Sidechain
22	AV	20	G	Sidechain
22	AV	23	A	Sidechain
22	AV	27	C	Sidechain
22	AV	30	U	Sidechain
22	AV	44	A	Sidechain
22	AV	46	U	Sidechain
22	AV	52	C	Sidechain
22	AV	53	U	Sidechain
22	AV	58	C	Sidechain
22	AV	6	C	Sidechain
22	AV	61	A	Sidechain
22	AV	62	U	Sidechain
22	AV	68	A	Sidechain
22	AV	70	G	Sidechain
22	AV	71	G	Sidechain
22	AV	9	A	Sidechain
23	AW	10	G	Sidechain
23	AW	12	U	Sidechain
23	AW	13	U	Sidechain
23	AW	14	A	Sidechain
23	AW	15	G	Sidechain
23	AW	20	G	Sidechain
23	AW	27	C	Sidechain
23	AW	3	G	Sidechain
23	AW	35	U	Sidechain
23	AW	37	A	Sidechain
23	AW	43	G	Sidechain
23	AW	44	A	Sidechain

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Mol	Chain	Res	Type	Group
23	AW	5	C	Sidechain
23	AW	57	U	Sidechain
23	AW	61	A	Sidechain
23	AW	62	U	Sidechain
23	AW	68	A	Sidechain
23	AW	69	G	Sidechain
23	AW	7	U	Sidechain
23	AW	71	G	Sidechain
23	AW	8	U	Sidechain
22	AY	10	G	Sidechain
22	AY	11	C	Sidechain
22	AY	13	U	Sidechain
22	AY	16	U	Sidechain
22	AY	20	G	Sidechain
22	AY	23	A	Sidechain
22	AY	25	A	Sidechain
22	AY	26	G	Sidechain
22	AY	29	A	Sidechain
22	AY	47	G	Sidechain
22	AY	48	G	Sidechain
22	AY	5	C	Sidechain
22	AY	52	C	Sidechain
22	AY	68	A	Sidechain
22	AY	69	G	Sidechain
22	AY	70	G	Sidechain
22	AY	71	G	Sidechain
22	AY	72	C	Sidechain
22	AY	77	C	Sidechain
35	BA	1025	G	Sidechain
35	BA	1040	C	Sidechain
35	BA	1142	U	Sidechain
35	BA	125	G	Sidechain
35	BA	1300	U	Sidechain
35	BA	1379	A	Sidechain
35	BA	15	G	Sidechain
35	BA	1621	U	Sidechain
35	BA	1642	G	Sidechain
35	BA	1693	U	Sidechain
35	BA	1772	G	Sidechain
35	BA	1779	U	Sidechain
35	BA	178	G	Sidechain
35	BA	1940	U	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	1952	A	Sidechain
35	BA	1955	U	Sidechain
35	BA	1992	G	Sidechain
35	BA	2010	G	Sidechain
35	BA	2050	C	Sidechain
35	BA	2053	G	Sidechain
35	BA	2059	A	Sidechain
35	BA	2360	A	Sidechain
35	BA	2447	G	Sidechain
35	BA	2464	C	Sidechain
35	BA	250	G	Sidechain
35	BA	2500	U	Sidechain
35	BA	2524	G	Sidechain
35	BA	2525	G	Sidechain
35	BA	2542	A	Sidechain
35	BA	2578	G	Sidechain
35	BA	2581	G	Sidechain
35	BA	2582	G	Sidechain
35	BA	2596	U	Sidechain
35	BA	2603	G	Sidechain
35	BA	2665	A	Sidechain
35	BA	271(Q)	G	Sidechain
35	BA	2712	U	Sidechain
35	BA	463	G	Sidechain
35	BA	472	A	Sidechain
35	BA	607	U	Sidechain
35	BA	642	G	Sidechain
35	BA	670	A	Sidechain
35	BA	686	G	Sidechain
35	BA	743	G	Sidechain
35	BA	807	U	Sidechain
35	BA	959	A	Sidechain
1	CA	1054	C	Sidechain
1	CA	1077	G	Sidechain
1	CA	1196	U	Sidechain
1	CA	1403	C	Sidechain
1	CA	1420	C	Sidechain
1	CA	1458	G	Sidechain
1	CA	1493	A	Sidechain
1	CA	1494	G	Sidechain
1	CA	1528	U	Sidechain
1	CA	265	G	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	436	C	Sidechain
1	CA	494	U	Sidechain
1	CA	587	G	Sidechain
1	CA	619	U	Sidechain
1	CA	692	U	Sidechain
1	CA	697	U	Sidechain
1	CA	832	C	Sidechain
1	CA	898	G	Sidechain
1	CA	97	G	Sidechain
22	CV	1	G	Sidechain
22	CV	20	G	Sidechain
22	CV	33	G	Sidechain
22	CV	39	A	Sidechain
22	CV	46	U	Sidechain
22	CV	52	C	Sidechain
22	CV	53	U	Sidechain
22	CV	6	C	Sidechain
22	CV	61	A	Sidechain
22	CV	70	G	Sidechain
23	CW	12	U	Sidechain
23	CW	13	U	Sidechain
23	CW	15	G	Sidechain
23	CW	20	G	Sidechain
23	CW	27	C	Sidechain
23	CW	35	U	Sidechain
23	CW	37	A	Sidechain
23	CW	57	U	Sidechain
23	CW	62	U	Sidechain
23	CW	69	G	Sidechain
23	CW	7	U	Sidechain
22	CY	10	G	Sidechain
22	CY	13	U	Sidechain
22	CY	16	U	Sidechain
22	CY	19	G	Sidechain
22	CY	20	G	Sidechain
22	CY	26	G	Sidechain
22	CY	29	A	Sidechain
22	CY	48	G	Sidechain
22	CY	5	C	Sidechain
22	CY	56	U	Sidechain
22	CY	57	U	Sidechain
22	CY	58	C	Sidechain

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Mol	Chain	Res	Type	Group
22	CY	60	A	Sidechain
22	CY	63	C	Sidechain
22	CY	69	G	Sidechain
22	CY	71	G	Sidechain
22	CY	72	C	Sidechain
35	DA	1142	U	Sidechain
35	DA	1300	U	Sidechain
35	DA	1379	A	Sidechain
35	DA	15	G	Sidechain
35	DA	1642	G	Sidechain
35	DA	1693	U	Sidechain
35	DA	1772	G	Sidechain
35	DA	1775	U	Sidechain
35	DA	1779	U	Sidechain
35	DA	178	G	Sidechain
35	DA	1940	U	Sidechain
35	DA	1952	A	Sidechain
35	DA	1955	U	Sidechain
35	DA	1992	G	Sidechain
35	DA	2009	G	Sidechain
35	DA	2010	G	Sidechain
35	DA	2059	A	Sidechain
35	DA	2336	A	Sidechain
35	DA	2360	A	Sidechain
35	DA	2447	G	Sidechain
35	DA	2464	C	Sidechain
35	DA	250	G	Sidechain
35	DA	2542	A	Sidechain
35	DA	2581	G	Sidechain
35	DA	2582	G	Sidechain
35	DA	2596	U	Sidechain
35	DA	2665	A	Sidechain
35	DA	271(Q)	G	Sidechain
35	DA	2712	U	Sidechain
35	DA	272(B)	G	Sidechain
35	DA	463	G	Sidechain
35	DA	472	A	Sidechain
35	DA	642	G	Sidechain
35	DA	670	A	Sidechain
35	DA	686	G	Sidechain
35	DA	688	U	Sidechain
35	DA	757	U	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	760	G	Sidechain
35	DA	807	U	Sidechain
35	DA	938	G	Sidechain
35	DA	959	A	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1336	0
1	CA	32329	0	16318	1414	0
2	AB	1901	0	1951	282	0
2	CB	1901	0	1951	288	0
3	AC	1613	0	1677	232	0
3	CC	1613	0	1677	248	0
4	AD	1703	0	1765	251	1
4	CD	1703	0	1766	247	0
5	AE	1147	0	1207	155	0
5	CE	1147	0	1207	160	0
6	AF	843	0	857	85	0
6	CF	843	0	857	84	1
7	AG	1257	0	1296	133	0
7	CG	1257	0	1296	134	0
8	AH	1116	0	1177	130	0
8	CH	1116	0	1177	135	0
9	AI	1010	0	1035	161	0
9	CI	1010	0	1035	166	0
10	AJ	795	0	840	184	0
10	CJ	795	0	840	181	0
11	AK	885	0	904	91	0
11	CK	885	0	904	91	0
12	AL	971	0	1057	217	0
12	CL	971	0	1057	219	0
13	AM	938	0	991	139	0
13	CM	938	0	991	138	0
14	AN	492	0	531	52	0
14	CN	492	0	532	56	0
15	AO	734	0	771	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	CO	734	0	771	67	0
16	AP	701	0	720	91	0
16	CP	701	0	720	89	0
17	AQ	824	0	891	88	0
17	CQ	824	0	891	83	0
18	AR	574	0	644	76	0
18	CR	574	0	644	78	0
19	AS	630	0	652	91	0
19	CS	630	0	652	85	0
20	AT	763	0	861	92	0
20	CT	763	0	861	87	0
21	AU	209	0	221	22	0
21	CU	209	0	221	23	0
22	AV	1667	0	857	264	0
22	AY	1667	0	857	327	0
22	CV	1667	0	857	236	0
22	CY	1667	0	854	330	0
23	AW	1659	0	843	397	0
23	CW	1659	0	843	323	0
24	AX	257	0	132	11	0
24	CX	257	0	132	35	0
25	B0	662	0	688	71	0
25	D0	662	0	688	73	0
26	B1	734	0	808	78	0
26	D1	734	0	808	90	0
27	B2	598	0	653	74	0
27	D2	598	0	653	82	0
28	B3	468	0	523	38	0
28	D3	468	0	523	39	0
29	B4	451	0	449	100	0
29	D4	451	0	449	83	0
30	B5	428	0	445	76	0
30	D5	428	0	445	74	0
31	B6	433	0	461	86	0
31	D6	433	0	461	89	0
32	B7	410	0	454	24	0
32	D7	410	0	454	25	0
33	B8	508	0	576	110	0
33	D8	508	0	576	113	0
34	B9	307	0	338	31	0
34	D9	307	0	338	36	0
35	BA	61341	0	30928	1760	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
35	DA	61341	0	30928	1847	0
36	BB	2551	0	1295	93	0
36	DB	2551	0	1295	109	0
37	BC	937	0	957	116	0
37	DC	937	0	957	116	0
38	BD	2105	0	2182	273	0
38	DD	2105	0	2182	285	0
39	BE	1564	0	1629	253	0
39	DE	1564	0	1629	254	0
40	BF	1624	0	1677	180	0
40	DF	1624	0	1677	186	0
41	BG	1474	0	1534	259	0
41	DG	1474	0	1534	317	0
42	BH	1260	0	1326	158	0
42	DH	1260	0	1326	162	0
43	BI	1132	0	1218	216	0
43	DI	1132	0	1218	207	0
44	BJ	651	0	166	32	0
44	DJ	651	0	170	17	0
45	BN	1105	0	1180	151	0
45	DN	1105	0	1180	151	0
46	BO	933	0	996	118	0
46	DO	933	0	996	118	0
47	BP	1114	0	1187	287	0
47	DP	1114	0	1187	293	0
48	BQ	1113	0	1171	140	0
48	DQ	1113	0	1171	149	0
49	BR	960	0	1021	131	0
49	DR	960	0	1021	130	0
50	BS	771	0	832	157	0
50	DS	771	0	832	151	0
51	BT	1124	0	1181	265	0
51	DT	1124	0	1181	252	0
52	BU	958	0	1015	138	0
52	DU	958	0	1015	136	0
53	BV	779	0	852	156	0
53	DV	779	0	852	156	0
54	BW	896	0	953	73	0
54	DW	896	0	953	79	0
55	BX	726	0	778	54	0
55	DX	726	0	778	62	0
56	BY	776	0	870	182	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	DY	776	0	870	188	0
57	BZ	1468	0	1492	273	0
57	DZ	1468	0	1491	349	0
58	AD	1	0	0	4	0
58	AN	1	0	0	3	0
58	CD	1	0	0	5	0
58	CN	1	0	0	3	0
All	All	298096	0	201782	20387	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 (20387) 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)
22:CY:57:U:C6	57:DZ:182:LYS:HA	1.08	1.58
1:CA:1196:U:C4	24:CX:23:A:C5	1.96	1.53
22:CY:57:U:H6	57:DZ:182:LYS:CA	1.20	1.50
1:CA:1196:U:O4	24:CX:23:A:C4	1.70	1.45
22:CY:62:U:O2'	57:DZ:186:GLU:CB	1.68	1.39
1:CA:1196:U:O4	24:CX:23:A:C8	1.74	1.38
1:CA:1196:U:C4	24:CX:23:A:C4	2.14	1.33
23:AW:30:U:H2'	23:AW:31:C:C6	1.65	1.31
23:AW:70:G:H2'	23:AW:71:G:C8	1.66	1.30
1:CA:1196:U:O4	24:CX:23:A:N9	1.60	1.29
22:CY:56:U:H3'	57:DZ:182:LYS:O	1.26	1.29
22:CY:57:U:C6	57:DZ:182:LYS:CA	2.00	1.28
22:AY:57:U:C6	57:BZ:182:LYS:HA	1.67	1.28
22:CY:57:U:C2	57:DZ:184:ALA:HB2	1.74	1.22
22:CY:60:A:C2	57:DZ:186:GLU:HB2	1.75	1.22
22:AY:56:U:H2'	57:BZ:183:LEU:CB	1.70	1.21
22:CY:57:U:O5'	57:DZ:182:LYS:CB	1.88	1.20
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.04	1.20
23:CW:70:G:H2'	23:CW:71:G:C8	1.74	1.20
22:CY:57:U:C5	57:DZ:182:LYS:HA	1.77	1.19
22:CY:57:U:O2	57:DZ:184:ALA:HB2	1.42	1.18
22:CY:62:U:O2'	57:DZ:186:GLU:CG	1.92	1.18
23:CW:70:G:H2'	23:CW:71:G:H8	1.00	1.17
23:CW:30:U:H2'	23:CW:31:C:C6	1.80	1.16
35:DA:2876:G:H4'	51:DT:3:ARG:HE	1.11	1.16
22:CY:58:C:H5"	57:DZ:179:ASP:OD1	1.41	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1845:G:H2'	35:BA:1846:G:H5"	1.23	1.15
14:AN:27:CYS:SG	58:AN:1000:ZN:ZN	1.33	1.15
23:AW:40:A:C2	23:AW:41:C:H3'	1.82	1.14
35:DA:1845:G:H2'	35:DA:1846:G:H5"	1.24	1.14
22:AV:1:G:H1'	25:B0:5:LYS:HZ1	1.13	1.14
33:D8:62:LEU:HD13	35:DA:242:G:H5"	1.18	1.14
4:AD:31:CYS:SG	58:AD:1000:ZN:ZN	1.36	1.13
51:BT:83:ILE:HG13	51:BT:84:GLN:H	1.05	1.13
22:AV:14:A:H3'	22:AV:15:G:C8	1.83	1.13
48:BQ:60:ARG:HA	57:BZ:179:ASP:HA	1.30	1.13
36:DB:7:G:H3'	36:DB:8:U:H5"	1.30	1.13
22:AY:56:U:OP1	48:BQ:56:ARG:HD3	1.49	1.13
22:CV:14:A:H3'	22:CV:15:G:H8	1.12	1.13
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.27	1.13
35:BA:1590:U:H2'	35:BA:1591:G:H5"	1.27	1.12
22:CY:56:U:OP1	57:DZ:180:VAL:HG12	1.48	1.12
22:CY:57:U:O5'	57:DZ:182:LYS:HB2	1.45	1.12
51:DT:83:ILE:HG13	51:DT:84:GLN:H	1.02	1.12
35:DA:1899:G:N2	35:DA:1902:C:H41	1.45	1.12
22:AY:56:U:H3'	57:BZ:182:LYS:O	1.50	1.12
35:BA:1899:G:N2	35:BA:1902:C:H41	1.46	1.12
35:DA:1590:U:H2'	35:DA:1591:G:H5"	1.26	1.12
35:BA:2876:G:H4'	51:BT:3:ARG:HE	1.09	1.12
23:AW:25:A:H2'	23:AW:26:G:C8	1.85	1.12
31:B6:15:GLU:HG3	31:B6:47:THR:HG21	1.28	1.12
47:BP:30:THR:HG22	47:BP:31:ALA:H	1.14	1.12
47:BP:55:ARG:HG2	47:BP:56:SER:H	1.10	1.12
22:CY:56:U:C3'	57:DZ:182:LYS:O	1.98	1.12
22:AV:5:C:H2'	22:AV:6:C:H6	1.13	1.11
1:CA:1196:U:O4	24:CX:23:A:C5	1.87	1.11
19:AS:65:ASN:HA	29:B4:48:ARG:HH12	1.02	1.11
22:CY:62:U:O2'	57:DZ:186:GLU:HB3	1.25	1.11
47:DP:23:PRO:HB2	47:DP:33:ARG:HD2	1.33	1.11
56:BY:76:CYS:SG	56:BY:77:PRO:HD2	1.91	1.11
35:DA:1484:G:H2'	35:DA:1485:G:H5"	1.23	1.11
35:BA:612:C:H2'	35:BA:613:G:H5"	1.11	1.10
23:CW:68:A:H2'	23:CW:69:G:H5"	1.24	1.10
35:DA:612:C:C2'	35:DA:613:G:H5"	1.81	1.10
56:DY:76:CYS:SG	56:DY:77:PRO:HD2	1.90	1.10
23:AW:19:G:N2	23:AW:59:G:H2'	1.65	1.10
1:CA:180:U:H2'	1:CA:181:G:H5"	1.33	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:68:A:H2'	23:AW:69:G:H5"	1.22	1.10
22:CY:60:A:C6	57:DZ:184:ALA:HA	1.83	1.10
33:B8:62:LEU:HD13	35:BA:242:G:H5"	1.22	1.10
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.02	1.10
42:BH:41:MET:HG3	42:BH:42:ARG:H	1.17	1.10
1:AA:1057:G:H5"	3:AC:154:SER:HB2	1.19	1.10
35:BA:1484:G:H2'	35:BA:1485:G:H5"	1.23	1.10
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.32	1.10
35:DA:612:C:H2'	35:DA:613:G:H5"	1.10	1.10
47:DP:30:THR:HG22	47:DP:31:ALA:H	1.13	1.10
47:DP:55:ARG:HG2	47:DP:56:SER:H	1.05	1.10
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.11	1.09
35:BA:612:C:C2'	35:BA:613:G:H5"	1.82	1.09
22:CY:20:G:H3'	22:CY:21:U:H5'	1.34	1.09
43:DI:97:ILE:O	43:DI:101:LEU:HB2	1.50	1.09
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.33	1.09
22:AV:25:A:H2'	22:AV:26:G:C8	1.86	1.09
36:BB:7:G:H3'	36:BB:8:U:H5"	1.31	1.09
1:CA:1057:G:H5"	3:CC:154:SER:HB2	1.18	1.09
1:CA:1363(A):A:H4'	1:CA:1364:U:H5"	1.30	1.09
31:D6:15:GLU:HG3	31:D6:47:THR:HG21	1.29	1.09
22:AY:57:U:H3'	57:BZ:182:LYS:HB3	1.14	1.09
43:BI:97:ILE:O	43:BI:101:LEU:HB2	1.49	1.09
35:DA:2092:U:H4'	35:DA:2093:G:H5"	1.33	1.09
22:AY:11:C:H2'	22:AY:12:U:C6	1.88	1.09
22:AY:56:U:C2'	57:BZ:183:LEU:HB2	1.81	1.09
35:BA:1915:U:C3'	35:BA:1916:A:H5"	1.81	1.09
23:CW:25:A:H2'	23:CW:26:G:C8	1.88	1.09
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.28	1.09
47:DP:59:LEU:HA	47:DP:61:ARG:NH1	1.68	1.09
1:AA:1363(A):A:H4'	1:AA:1364:U:H5"	1.31	1.09
47:BP:23:PRO:HB2	47:BP:33:ARG:HD2	1.29	1.08
12:CL:89:ARG:HH11	12:CL:89:ARG:HB2	1.18	1.08
35:DA:1747(A):G:H2'	35:DA:1748:G:H5"	1.35	1.08
4:CD:31:CYS:SG	58:CD:1000:ZN:ZN	1.41	1.08
47:BP:59:LEU:HA	47:BP:61:ARG:CZ	1.84	1.08
22:CY:62:U:O2'	57:DZ:186:GLU:HG2	1.53	1.08
35:DA:1899:G:H22	35:DA:1902:C:N4	1.52	1.08
22:AV:14:A:H3'	22:AV:15:G:H8	1.00	1.08
48:DQ:132:VAL:HG11	57:DZ:81:ARG:HH21	1.19	1.08
23:AW:40:A:H2'	23:AW:41:C:C5	1.89	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:874:G:H5"	57:BZ:175:VAL:HG11	1.30	1.07
23:CW:40:A:C2	23:CW:41:C:H3'	1.89	1.07
42:BH:7:LEU:HD23	42:BH:69:ARG:HD2	1.32	1.07
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.34	1.07
22:CY:55:G:H5"	48:DQ:56:ARG:NH2	1.69	1.07
22:CY:57:U:C4'	57:DZ:182:LYS:HB3	1.64	1.07
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.31	1.07
35:DA:1915:U:C3'	35:DA:1916:A:H5"	1.83	1.07
1:AA:180:U:H2'	1:AA:181:G:H5"	1.36	1.07
22:CY:57:U:O2	57:DZ:184:ALA:CB	2.02	1.07
47:DP:59:LEU:HA	47:DP:61:ARG:CZ	1.84	1.07
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.29	1.07
26:D1:29:GLY:O	26:D1:30:VAL:HG22	1.55	1.07
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.36	1.07
1:AA:1152:A:H5'	10:AJ:70:ARG:HH22	1.20	1.07
12:AL:89:ARG:HB2	12:AL:89:ARG:HH11	1.17	1.07
22:AY:20:G:H3'	22:AY:21:U:H5'	1.37	1.07
35:BA:1899:G:H22	35:BA:1902:C:N4	1.54	1.06
22:CY:49:G:H3'	22:CY:50:C:H5'	1.37	1.06
45:BN:133:GLN:HG2	45:BN:134:ARG:H	1.19	1.06
1:AA:1054:C:N4	22:AY:36:AG9:H1'	1.70	1.06
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.35	1.06
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.16	1.06
22:CV:1:G:H1'	25:D0:5:LYS:HZ1	1.16	1.06
35:DA:1915:U:H3'	35:DA:1916:A:H5"	1.10	1.05
23:AW:70:G:H2'	23:AW:71:G:H8	0.90	1.05
35:BA:548:A:H2'	35:BA:549:G:H5'	1.39	1.05
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.36	1.05
36:DB:20:C:H2'	36:DB:21:G:H5"	1.35	1.05
35:DA:145:G:H2'	35:DA:146:G:H5"	1.38	1.05
42:DH:7:LEU:HD23	42:DH:69:ARG:HD2	1.37	1.05
35:BA:2092:U:H4'	35:BA:2093:G:H5"	1.34	1.05
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.10	1.05
12:AL:89:ARG:HB2	12:AL:89:ARG:NH1	1.72	1.05
35:DA:2491:U:H5'	35:DA:2570:G:H5"	1.39	1.05
35:BA:1915:U:H3'	35:BA:1916:A:H5"	1.10	1.04
22:CV:5:C:H2'	22:CV:6:C:H6	1.15	1.04
22:CV:20:G:H3'	22:CV:21:U:H5"	1.40	1.04
17:AQ:9:VAL:HG12	17:AQ:56:VAL:HG22	1.39	1.04
35:BA:1747(A):G:H2'	35:BA:1748:G:H5"	1.36	1.04
43:DI:88:ILE:HD11	43:DI:142:VAL:HG13	1.37	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:1:G:H1'	25:B0:5:LYS:NZ	1.73	1.04
36:BB:20:C:H2'	36:BB:21:G:H5"	1.35	1.04
1:CA:1152:A:H5'	10:CJ:70:ARG:HH22	1.19	1.04
23:CW:19:G:N2	23:CW:59:G:H2'	1.71	1.04
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.40	1.04
41:BG:44:GLY:H	41:BG:88:ILE:HG21	1.18	1.03
4:CD:59:ARG:HA	4:CD:59:ARG:HE	1.24	1.03
22:AY:57:U:C5	57:BZ:182:LYS:HA	1.91	1.03
35:BA:1884:A:H2'	35:BA:1885:A:H5"	1.40	1.03
42:BH:43:VAL:HG11	42:BH:52:VAL:HG22	1.39	1.03
43:BI:88:ILE:HD11	43:BI:142:VAL:HG13	1.35	1.03
8:CH:51:VAL:HG11	8:CH:60:ARG:HD3	1.39	1.03
1:CA:1196:U:N3	24:CX:23:A:C2	2.25	1.03
42:DH:43:VAL:HG11	42:DH:52:VAL:HG22	1.38	1.03
23:CW:13:U:H6	23:CW:13:U:H3'	1.22	1.03
22:CY:60:A:C5	57:DZ:184:ALA:HA	1.93	1.03
45:DN:133:GLN:HG2	45:DN:134:ARG:H	1.20	1.03
51:DT:13:ARG:CZ	51:DT:13:ARG:HA	1.88	1.03
47:BP:59:LEU:HA	47:BP:61:ARG:NH1	1.72	1.03
47:BP:144:GLU:H	47:BP:145:PRO:HD3	1.20	1.03
3:CC:108:ASN:HD21	3:CC:144:SER:HB2	1.23	1.03
53:DV:40:LEU:HD22	53:DV:46:VAL:HA	1.40	1.03
23:AW:33:G:C4	23:AW:34:C:H1'	1.94	1.02
22:CV:25:A:H2'	22:CV:26:G:C8	1.92	1.02
35:DA:548:A:H2'	35:DA:549:G:H5'	1.39	1.02
42:DH:41:MET:HG3	42:DH:42:ARG:H	1.18	1.02
22:AY:63:C:H1'	57:BZ:186:GLU:HG2	1.41	1.02
35:BA:145:G:H2'	35:BA:146:G:H5"	1.37	1.02
35:BA:404:C:H4'	35:BA:405:U:H5'	1.42	1.02
22:CY:62:U:C2'	57:DZ:186:GLU:HG2	1.88	1.02
35:DA:1884:A:H2'	35:DA:1885:A:H5"	1.39	1.02
47:BP:23:PRO:HD2	47:BP:33:ARG:CZ	1.89	1.02
12:CL:89:ARG:HB2	12:CL:89:ARG:NH1	1.73	1.02
36:DB:117:G:H5'	50:DS:55:ALA:HB1	1.41	1.02
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.23	1.02
23:AW:58:C:N4	35:BA:2169:A:H1'	1.74	1.02
51:BT:13:ARG:CZ	51:BT:13:ARG:HA	1.90	1.02
10:CJ:84:GLN:O	10:CJ:88:LEU:HB3	1.60	1.02
22:CV:14:A:H3'	22:CV:15:G:C8	1.94	1.02
35:DA:1590:U:C2'	35:DA:1591:G:H5"	1.89	1.02
5:CE:100:VAL:HG12	5:CE:118:ILE:HG22	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.37	1.01
22:CY:58:C:H5"	57:DZ:179:ASP:CG	1.84	1.01
38:BD:43:ARG:NH1	38:BD:44:ASN:HD21	1.57	1.01
7:CG:77:SER:HA	7:CG:86:GLN:HA	1.41	1.01
46:DO:2:ILE:HD11	46:DO:82:ASN:HD22	1.25	1.01
54:DW:1:MET:HE3	54:DW:2:GLU:H	1.25	1.01
3:AC:108:ASN:HD21	3:AC:144:SER:HB2	1.20	1.01
23:AW:13:U:H3'	23:AW:13:U:H6	1.22	1.01
22:AY:55:G:H5"	48:BQ:56:ARG:NH2	1.75	1.01
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.41	1.01
12:CL:71:PRO:O	12:CL:102:ARG:HD3	1.60	1.01
23:CW:40:A:H2'	23:CW:41:C:C5	1.96	1.01
28:D3:27:GLY:HA3	28:D3:35:ARG:HH11	1.26	1.01
35:DA:1494:A:H2'	35:DA:1495:A:H5"	1.43	1.01
38:DD:43:ARG:NH1	38:DD:44:ASN:HD21	1.56	1.01
1:AA:979:C:H3'	1:AA:980:C:H5"	1.43	1.01
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.37	1.01
22:AV:20:G:H3'	22:AV:21:U:H5"	1.41	1.01
22:AY:57:U:H6	57:BZ:182:LYS:CA	1.73	1.01
35:BA:1494:A:H2'	35:BA:1495:A:H5"	1.43	1.01
22:CY:31:C:H2'	22:CY:32:G:H5"	1.37	1.01
22:AV:5:C:H2'	22:AV:6:C:C6	1.96	1.01
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.61	1.01
35:DA:322:A:H3'	40:DF:169:ASN:HD21	1.24	1.01
57:DZ:134:PRO:HB2	57:DZ:137:ILE:HD11	1.39	1.01
10:AJ:84:GLN:O	10:AJ:88:LEU:HB3	1.62	1.00
29:B4:35:VAL:HB	41:BG:113:ARG:HD2	1.43	1.00
35:BA:1590:U:C2'	35:BA:1591:G:H5"	1.89	1.00
35:BA:2491:U:H5'	35:BA:2570:G:H5"	1.41	1.00
45:BN:125:GLY:HA3	45:BN:126:PRO:O	1.61	1.00
39:DE:92:THR:O	39:DE:95:ILE:HG12	1.61	1.00
2:AB:80:ILE:HD12	2:AB:80:ILE:H	1.21	1.00
5:AE:100:VAL:HG12	5:AE:118:ILE:HG22	1.43	1.00
1:CA:975:A:H4'	1:CA:976:G:H5"	1.42	1.00
8:AH:51:VAL:HG11	8:AH:60:ARG:HD3	1.40	1.00
36:BB:80:U:H2'	36:BB:81:G:H21	1.24	1.00
22:AY:49:G:H3'	22:AY:50:C:H5'	1.39	1.00
22:AY:57:U:C6	57:BZ:182:LYS:CA	2.44	1.00
2:CB:80:ILE:H	2:CB:80:ILE:HD12	1.23	1.00
22:CY:11:C:H2'	22:CY:12:U:C6	1.95	1.00
39:BE:92:THR:O	39:BE:95:ILE:HG12	1.62	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:57:U:C6	57:BZ:183:LEU:N	2.29	1.00
22:CY:56:U:OP1	57:DZ:180:VAL:CG1	2.09	1.00
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.25	0.99
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.44	0.99
47:DP:146:VAL:HG22	47:DP:147:LEU:H	1.25	0.99
17:CQ:9:VAL:HG12	17:CQ:56:VAL:HG22	1.42	0.99
57:BZ:61:LEU:H	57:BZ:61:LEU:HD23	1.26	0.99
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.23	0.99
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.26	0.99
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.62	0.99
12:CL:54:LYS:HB3	12:CL:70:ILE:HD12	1.43	0.99
22:CY:57:U:C2	57:DZ:184:ALA:CB	2.44	0.99
23:AW:16:U:H1'	23:AW:62:U:H4'	1.44	0.99
51:BT:85:LYS:HB3	51:BT:85:LYS:NZ	1.77	0.99
53:BV:40:LEU:HD22	53:BV:46:VAL:HA	1.45	0.99
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.44	0.99
28:D3:8:LEU:HD13	28:D3:31:LEU:HD23	1.44	0.99
41:DG:42:GLY:HA2	41:DG:89:GLY:HA2	1.44	0.99
47:DP:144:GLU:H	47:DP:145:PRO:HD3	1.23	0.99
57:DZ:42:VAL:HG13	57:DZ:43:GLU:H	1.25	0.99
8:AH:103:VAL:HG21	8:AH:110:ALA:HB2	1.45	0.99
23:CW:12:U:H3	23:CW:26:G:N2	1.60	0.99
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.24	0.99
1:AA:975:A:H4'	1:AA:976:G:H5"	1.43	0.99
22:AY:31:C:H2'	22:AY:32:G:H5"	1.43	0.99
22:AY:57:U:O5'	57:BZ:182:LYS:HB2	1.63	0.99
35:BA:1348:G:H2'	35:BA:1349:A:H5"	1.43	0.99
47:BP:144:GLU:H	47:BP:145:PRO:CD	1.75	0.99
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.42	0.99
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.45	0.99
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.45	0.99
23:AW:15:G:N2	23:AW:23:A:H1'	1.78	0.99
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.27	0.99
43:BI:74:ASN:H	43:BI:74:ASN:HD22	1.10	0.99
1:CA:1053:G:H4'	1:CA:1054:C:C5'	1.93	0.99
53:BV:62:LEU:HD21	53:BV:95:LEU:HB2	1.43	0.98
47:DP:23:PRO:HD2	47:DP:33:ARG:CZ	1.92	0.98
47:BP:23:PRO:HB2	47:BP:33:ARG:CD	1.93	0.98
1:CA:1196:U:O4	24:CX:23:A:N7	1.96	0.98
47:DP:144:GLU:H	47:DP:145:PRO:CD	1.76	0.98
19:AS:65:ASN:HA	29:B4:48:ARG:NH1	1.77	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:34:VAL:HG13	39:DE:48:GLN:HG2	1.46	0.98
1:AA:1053:G:H4'	1:AA:1054:C:C5'	1.91	0.98
53:DV:62:LEU:HD21	53:DV:95:LEU:HB2	1.45	0.98
1:CA:979:C:H3'	1:CA:980:C:H5"	1.44	0.98
1:CA:1196:U:C4	24:CX:23:A:C6	2.52	0.98
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.45	0.98
25:D0:10:THR:HG22	25:D0:11:ARG:H	1.26	0.98
53:DV:72:VAL:HG23	53:DV:85:LYS:HB3	1.45	0.98
47:BP:146:VAL:HG22	47:BP:147:LEU:H	1.26	0.98
1:AA:474:G:H2'	1:AA:475:G:C8	1.99	0.98
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.46	0.98
35:BA:1845:G:C2'	35:BA:1846:G:H5"	1.93	0.98
22:CY:57:U:C5'	57:DZ:182:LYS:HB3	1.93	0.98
35:BA:2523:G:H2'	35:BA:2524:G:H5"	1.45	0.97
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.42	0.97
35:BA:1915:U:H3'	35:BA:1916:A:C5'	1.94	0.97
53:BV:72:VAL:HG23	53:BV:85:LYS:HB3	1.44	0.97
22:CV:1:G:H1'	25:D0:5:LYS:NZ	1.78	0.97
41:DG:5:VAL:HG12	41:DG:6:ALA:H	1.29	0.97
28:D3:27:GLY:HA3	28:D3:35:ARG:NH1	1.79	0.97
35:DA:2068:U:H3	35:DA:2430:A:H2	1.02	0.97
56:DY:28:LYS:HA	56:DY:38:ILE:HG22	1.47	0.97
35:BA:322:A:H3'	40:BF:169:ASN:HD21	1.29	0.97
51:DT:83:ILE:HG13	51:DT:84:GLN:N	1.78	0.97
55:DX:64:LYS:HZ2	55:DX:73:ARG:HH21	1.09	0.97
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.44	0.97
35:DA:404:C:H4'	35:DA:405:U:H5'	1.43	0.97
4:AD:59:ARG:HE	4:AD:59:ARG:HA	1.26	0.97
12:AL:54:LYS:HB3	12:AL:70:ILE:HD12	1.44	0.97
36:DB:80:U:H2'	36:DB:81:G:H21	1.24	0.97
49:DR:10:LEU:HB3	49:DR:17:ARG:HD3	1.47	0.97
46:BO:88:ASN:HD21	46:BO:90:GLN:HB2	1.27	0.97
1:CA:474:G:H2'	1:CA:475:G:C8	1.99	0.97
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.43	0.97
54:BW:1:MET:HE3	54:BW:2:GLU:H	1.26	0.97
23:AW:68:A:C2'	23:AW:69:G:H5"	1.95	0.97
31:B6:35:GLU:HB3	31:B6:51:GLU:HB2	1.46	0.97
36:DB:6:C:HO2'	50:DS:29:PHE:HE2	1.06	0.97
7:AG:77:SER:HA	7:AG:86:GLN:HA	1.44	0.97
8:CH:103:VAL:HG21	8:CH:110:ALA:HB2	1.43	0.97
23:CW:71:G:H2'	23:CW:72:C:H5'	1.47	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1747(A):G:C2'	35:DA:1748:G:H5"	1.94	0.97
35:DA:1845:G:C2'	35:DA:1846:G:H5"	1.95	0.97
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.46	0.96
46:DO:88:ASN:HD21	46:DO:90:GLN:HB2	1.28	0.96
35:BA:1453:U:H5'	49:BR:63:ARG:HE	1.27	0.96
39:BE:77:ILE:HG22	39:BE:78:LEU:H	1.29	0.96
22:CY:62:U:HO2'	57:DZ:186:GLU:HB3	1.27	0.96
23:AW:12:U:H3	23:AW:26:G:H22	1.13	0.96
35:BA:1022:G:H22	35:BA:1142(A):A:H2	0.99	0.96
43:BI:69:LYS:HA	43:BI:136:VAL:HG11	1.44	0.96
49:BR:2:ARG:HH11	49:BR:2:ARG:N	1.63	0.96
1:AA:447:G:H2'	1:AA:485:G:N2	1.78	0.96
35:BA:1747(A):G:C2'	35:BA:1748:G:H5"	1.93	0.96
57:BZ:153:SER:HB2	57:BZ:163:LEU:HD13	1.48	0.96
51:DT:85:LYS:NZ	51:DT:85:LYS:HB3	1.78	0.96
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.48	0.96
38:BD:16:MET:HE1	38:BD:208:LYS:HD3	1.48	0.96
35:DA:1915:U:H3'	35:DA:1916:A:C5'	1.94	0.96
35:DA:2562:U:H1'	46:DO:23:ARG:HH11	1.30	0.96
35:BA:2681:C:H5	35:BA:2725:A:H62	1.12	0.96
46:BO:2:ILE:HD11	46:BO:82:ASN:HD22	1.28	0.96
35:DA:1798:U:H5'	38:DD:259:THR:HG22	1.45	0.96
35:DA:2523:G:H2'	35:DA:2524:G:H5"	1.45	0.96
43:DI:69:LYS:HA	43:DI:136:VAL:HG11	1.48	0.96
45:DN:125:GLY:HA3	45:DN:126:PRO:O	1.63	0.96
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.48	0.96
35:BA:1798:U:H5'	38:BD:259:THR:HG22	1.44	0.96
23:CW:12:U:H3	23:CW:26:G:H22	0.97	0.96
12:AL:71:PRO:O	12:AL:102:ARG:HD3	1.64	0.96
25:B0:10:THR:HG22	25:B0:11:ARG:H	1.28	0.96
35:BA:1771:C:HO2'	35:BA:1786:A:H8	1.09	0.96
51:BT:65:LYS:HZ2	51:BT:65:LYS:HA	1.29	0.96
47:DP:38:GLN:HG3	47:DP:39:LYS:H	1.30	0.96
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.30	0.95
23:CW:30:U:H2'	23:CW:31:C:H6	1.15	0.95
14:AN:40:CYS:HG	58:AN:1000:ZN:ZN	0.80	0.95
22:CV:5:C:H2'	22:CV:6:C:C6	2.00	0.95
1:AA:491:G:H2'	1:AA:492:G:H8	1.31	0.95
13:CM:94:ARG:HG2	19:CS:82:GLY:N	1.81	0.95
45:DN:2:LYS:HZ3	52:DU:95:LEU:HD21	1.31	0.95
41:DG:170:ARG:HH22	41:DG:182:LYS:HE2	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:2:ARG:N	49:DR:2:ARG:HH11	1.63	0.95
54:DW:92:ARG:HH11	54:DW:92:ARG:HB3	1.25	0.95
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.31	0.95
23:AW:30:U:H2'	23:AW:31:C:H6	0.98	0.95
23:CW:33:G:C4	23:CW:34:C:H1'	2.01	0.95
23:CW:38:U:H3	23:CW:39:A:H62	1.14	0.95
29:D4:12:ALA:HB1	29:D4:29:PRO:HA	1.48	0.95
39:DE:77:ILE:HG22	39:DE:78:LEU:H	1.30	0.95
25:B0:14:ARG:HH11	25:B0:14:ARG:HB2	1.31	0.95
35:BA:2068:U:H3	35:BA:2430:A:H2	1.01	0.95
43:DI:126:TYR:H	43:DI:140:LEU:HD22	1.32	0.95
22:AV:70:G:H2'	22:AV:71:G:H8	1.30	0.95
22:AY:57:U:H6	57:BZ:182:LYS:HA	1.20	0.95
13:CM:39:ILE:HD12	13:CM:56:LEU:HD23	1.49	0.95
35:DA:2681:C:H5	35:DA:2725:A:H62	1.09	0.95
54:BW:92:ARG:HH11	54:BW:92:ARG:HB3	1.27	0.95
56:BY:28:LYS:HA	56:BY:38:ILE:HG22	1.47	0.95
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.46	0.95
23:CW:68:A:C2'	23:CW:69:G:H5"	1.96	0.95
29:D4:2:LYS:HB2	36:DB:40:U:O4	1.66	0.95
43:BI:126:TYR:H	43:BI:140:LEU:HD22	1.32	0.95
5:AE:148:VAL:HG21	8:AH:107:LEU:HD22	1.49	0.94
50:BS:97:ARG:NH2	50:BS:98:VAL:HA	1.81	0.94
51:BT:83:ILE:HG13	51:BT:84:GLN:N	1.79	0.94
35:DA:1453:U:H5'	49:DR:63:ARG:HE	1.31	0.94
50:DS:97:ARG:NH2	50:DS:98:VAL:HA	1.82	0.94
35:BA:1494:A:C2'	35:BA:1495:A:H5"	1.97	0.94
35:DA:1348:G:H2'	35:DA:1349:A:H5"	1.46	0.94
22:AY:25:A:H2'	22:AY:26:G:C8	2.02	0.94
43:BI:109:ILE:HG22	43:BI:110:ASP:H	1.32	0.94
9:AI:9:ARG:HG2	9:AI:14:VAL:HG22	1.49	0.94
57:BZ:183:LEU:HD12	57:BZ:184:ALA:H	1.29	0.94
22:AV:11:C:H2'	22:AV:12:U:C6	2.03	0.94
33:B8:59:LYS:HB2	33:B8:59:LYS:NZ	1.80	0.94
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.49	0.94
8:AH:122:ARG:NH1	8:AH:122:ARG:HB2	1.81	0.94
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.31	0.94
41:BG:44:GLY:N	41:BG:88:ILE:HG21	1.83	0.94
28:B3:27:GLY:HA3	28:B3:35:ARG:HH11	1.31	0.94
1:CA:447:G:H2'	1:CA:485:G:N2	1.83	0.94
23:CW:15:G:N2	23:CW:23:A:H1'	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:483:A:H5"	56:DY:49:VAL:HG22	1.50	0.94
3:AC:14:ILE:HG12	3:AC:15:THR:H	1.31	0.94
22:AY:57:U:P	57:BZ:182:LYS:HB2	2.06	0.94
35:BA:145:G:C2'	35:BA:146:G:H5"	1.98	0.94
40:BF:28:ILE:HG21	40:BF:116:ASP:HB2	1.49	0.94
41:BG:51:ARG:HA	41:BG:51:ARG:NE	1.80	0.94
1:CA:1196:U:N3	24:CX:23:A:C4	2.33	0.94
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.46	0.94
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.50	0.94
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.66	0.94
26:D1:89:GLU:HA	26:D1:92:LYS:HB3	1.50	0.94
35:DA:914:C:H2'	35:DA:915:C:H5'	1.48	0.94
35:DA:1494:A:C2'	35:DA:1495:A:H5"	1.97	0.94
35:DA:1884:A:C2'	35:DA:1885:A:H5"	1.98	0.94
23:AW:44:A:H2'	23:AW:45:U:O4'	1.65	0.94
39:BE:34:VAL:HG13	39:BE:48:GLN:HG2	1.47	0.94
43:DI:74:ASN:HD22	43:DI:74:ASN:H	1.07	0.94
45:DN:111:PRO:HA	45:DN:114:ARG:NH1	1.82	0.94
19:AS:62:ILE:HD12	19:AS:66:MET:HE2	1.50	0.94
41:BG:152:LEU:H	41:BG:152:LEU:HD23	1.33	0.94
22:CY:62:U:C3'	57:DZ:186:GLU:HG2	1.98	0.94
35:DA:1022:G:H22	35:DA:1142(A):A:H2	1.00	0.94
47:DP:23:PRO:HB2	47:DP:33:ARG:CD	1.98	0.94
13:AM:94:ARG:HG2	19:AS:82:GLY:N	1.82	0.93
22:CY:19:G:N2	22:CY:59:G:H2'	1.83	0.93
35:BA:1689:A:H62	35:BA:1698:A:H2	1.15	0.93
52:DU:83:LEU:HD22	52:DU:83:LEU:H	1.30	0.93
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.50	0.93
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.33	0.93
22:CY:25:A:H2'	22:CY:26:G:C8	2.02	0.93
35:BA:914:C:H2'	35:BA:915:C:H5'	1.51	0.93
38:DD:16:MET:HE1	38:DD:208:LYS:HD3	1.49	0.93
48:DQ:34:LEU:HD11	48:DQ:129:THR:HB	1.49	0.93
1:CA:81:U:H3	1:CA:88:A:H62	1.17	0.93
49:BR:10:LEU:HB3	49:BR:17:ARG:HD3	1.47	0.93
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.32	0.93
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.31	0.93
52:BU:83:LEU:H	52:BU:83:LEU:HD22	1.32	0.93
1:CA:537:G:H5"	12:CL:113:ARG:HH12	1.32	0.93
8:CH:122:ARG:NH1	8:CH:122:ARG:HB2	1.82	0.93
35:BA:2562:U:H1'	46:BO:23:ARG:HH11	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CY:63:C:O2'	57:DZ:185:GLU:OE1	1.87	0.93
45:DN:47:ALA:HB2	45:DN:112:LEU:HD11	1.48	0.93
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.30	0.93
22:AY:56:U:H2'	57:BZ:183:LEU:HB2	0.97	0.93
30:B5:3:LYS:HE2	35:BA:2613:U:O2'	1.68	0.93
31:B6:37:ARG:HH21	35:BA:2286:A:H62	1.17	0.93
35:BA:329:G:H1	56:BY:19:LYS:HE3	1.33	0.93
4:CD:26:CYS:SG	58:CD:1000:ZN:ZN	1.58	0.93
22:CY:10:G:N2	22:CY:28:G:H1'	1.83	0.93
45:DN:111:PRO:HA	45:DN:114:ARG:HH12	1.32	0.93
51:DT:65:LYS:HZ2	51:DT:65:LYS:HA	1.34	0.93
57:DZ:54:HIS:HB3	57:DZ:101:PRO:HD3	1.50	0.93
22:AV:30:U:H2'	22:AV:31:C:C6	2.03	0.93
31:D6:35:GLU:HB3	31:D6:51:GLU:HB2	1.48	0.93
35:DA:1537:G:H2'	35:DA:1538:G:H8	1.34	0.93
57:DZ:102:LEU:HD21	57:DZ:124:ILE:HG12	1.49	0.93
1:AA:475:G:H2'	1:AA:476:G:C8	2.04	0.92
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.50	0.92
3:CC:14:ILE:HG12	3:CC:15:THR:H	1.33	0.92
9:CI:9:ARG:HG2	9:CI:14:VAL:HG22	1.51	0.92
56:DY:28:LYS:HB3	56:DY:38:ILE:H	1.31	0.92
1:AA:180:U:H2'	1:AA:181:G:C5'	1.99	0.92
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.68	0.92
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.49	0.92
23:AW:27:C:H3'	23:AW:28:G:C8	2.04	0.92
42:BH:41:MET:CG	42:BH:42:ARG:H	1.82	0.92
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.50	0.92
22:CV:11:C:H2'	22:CV:12:U:C6	2.05	0.92
57:DZ:112:ARG:O	57:DZ:112:ARG:HD3	1.68	0.92
23:AW:19:G:H21	23:AW:59:G:H2'	1.35	0.92
28:B3:27:GLY:HA3	28:B3:35:ARG:NH1	1.83	0.92
32:B7:8:ASN:C	32:B7:8:ASN:HD22	1.76	0.92
22:CY:56:U:C5'	57:DZ:180:VAL:HG12	1.99	0.92
48:DQ:62:GLY:O	57:DZ:178:GLU:HB2	1.68	0.92
50:DS:35:ILE:HD11	50:DS:99:LYS:HE2	1.48	0.92
35:BA:1884:A:C2'	35:BA:1885:A:H5"	1.99	0.92
39:BE:101:ARG:HH11	39:BE:171:GLU:HB2	1.35	0.92
2:CB:80:ILE:HD11	2:CB:208:ILE:HG23	1.49	0.92
13:AM:39:ILE:HD12	13:AM:56:LEU:HD23	1.49	0.92
29:B4:12:ALA:HB1	29:B4:29:PRO:HA	1.48	0.92
47:BP:101:VAL:HB	47:BP:107:LYS:HA	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:34:LYS:HE2	52:BU:34:LYS:HA	1.52	0.92
30:D5:3:LYS:HE2	35:DA:2613:U:O2'	1.69	0.92
35:DA:329:G:H1	56:DY:19:LYS:HE3	1.32	0.92
53:DV:19:LYS:HG2	53:DV:94:LEU:HB2	1.50	0.92
45:BN:2:LYS:HZ3	52:BU:95:LEU:HD21	1.33	0.92
53:DV:15:GLU:HB3	53:DV:16:PRO:HD2	1.51	0.92
28:B3:8:LEU:HD13	28:B3:31:LEU:HD23	1.48	0.92
53:BV:15:GLU:HB3	53:BV:16:PRO:HD2	1.50	0.92
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.34	0.92
12:CL:70:ILE:HG12	12:CL:100:ILE:HD12	1.52	0.92
26:D1:51:VAL:HG21	26:D1:74:VAL:HG21	1.50	0.92
35:DA:2306:C:H4'	41:DG:136:ARG:NH2	1.84	0.92
41:DG:67:LYS:HE3	41:DG:67:LYS:N	1.85	0.92
22:AY:19:G:N2	22:AY:59:G:H2'	1.85	0.92
35:BA:271(M):G:H2'	35:BA:271(N):U:H5"	1.51	0.92
1:CA:180:U:H2'	1:CA:181:G:C5'	2.00	0.92
1:CA:491:G:H2'	1:CA:492:G:H8	1.32	0.92
26:D1:52:ARG:HH22	35:DA:2218:U:H1'	1.34	0.92
31:D6:12:GLU:HG2	31:D6:23:THR:HG22	1.52	0.92
23:AW:12:U:H3	23:AW:26:G:N2	1.68	0.91
26:B1:45:ASN:HD21	35:BA:2090:G:H21	1.11	0.91
45:BN:47:ALA:HB2	45:BN:112:LEU:HD11	1.52	0.91
47:BP:38:GLN:HG3	47:BP:39:LYS:H	1.32	0.91
51:BT:28:VAL:HG22	51:BT:47:GLY:N	1.84	0.91
12:CL:35:GLY:HA3	12:CL:58:VAL:HG11	1.51	0.91
22:CV:12:U:H2'	22:CV:13:U:O4'	1.70	0.91
23:AW:15:G:H22	23:AW:23:A:H1'	1.34	0.91
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.51	0.91
41:BG:56:ALA:HB2	41:BG:153:ARG:HH11	1.32	0.91
53:BV:19:LYS:NZ	53:BV:20:LEU:H	1.66	0.91
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.33	0.91
22:CY:20:G:N2	22:CY:58:C:N3	2.18	0.91
1:AA:114:U:H2'	1:AA:115:G:C8	2.05	0.91
30:B5:20:ARG:HA	30:B5:23:HIS:ND1	1.85	0.91
47:DP:115:LEU:HA	47:DP:134:ALA:HB2	1.52	0.91
55:DX:35:THR:O	55:DX:39:ILE:HG12	1.70	0.91
12:AL:35:GLY:HA3	12:AL:58:VAL:HG11	1.51	0.91
53:BV:18:LEU:HD22	53:BV:19:LYS:H	1.34	0.91
56:BY:28:LYS:HB3	56:BY:38:ILE:H	1.34	0.91
35:DA:1484:G:C2'	35:DA:1485:G:H5"	2.00	0.91
53:DV:18:LEU:HD22	53:DV:19:LYS:H	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:19:LYS:NZ	53:DV:20:LEU:H	1.67	0.91
47:BP:9:ASN:H	47:BP:10:PRO:HD2	1.34	0.91
23:CW:44:A:H2'	23:CW:45:U:O4'	1.71	0.91
27:D2:65:ASN:HB3	27:D2:69:ARG:HH12	1.36	0.91
35:DA:1689:A:H62	35:DA:1698:A:H2	1.16	0.91
42:DH:33:LEU:HD12	42:DH:75:ALA:HA	1.52	0.91
17:CQ:57:VAL:HG12	17:CQ:76:LEU:HA	1.53	0.91
35:DA:145:G:C2'	35:DA:146:G:H5"	1.99	0.91
47:DP:9:ASN:H	47:DP:10:PRO:HD2	1.34	0.91
9:AI:65:VAL:HG21	9:AI:73:GLN:HB3	1.53	0.91
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.32	0.91
9:CI:65:VAL:HG21	9:CI:73:GLN:HB3	1.51	0.91
10:CJ:16:LEU:HD23	10:CJ:94:VAL:HG13	1.53	0.91
35:DA:322:A:H3'	40:DF:169:ASN:ND2	1.85	0.91
35:DA:1887:C:H2'	35:DA:1888:G:H5"	1.51	0.91
55:BX:64:LYS:HZ2	55:BX:73:ARG:HH21	1.11	0.91
15:AO:39:LEU:HD12	15:AO:56:LEU:HD13	1.52	0.91
53:BV:19:LYS:HZ3	53:BV:20:LEU:H	0.94	0.91
19:CS:20:LEU:HA	19:CS:23:ASN:HD22	1.36	0.91
2:AB:44:LEU:H	2:AB:44:LEU:HD12	1.35	0.90
12:AL:57:LYS:HA	12:AL:66:VAL:O	1.71	0.90
47:BP:23:PRO:HD2	47:BP:33:ARG:NH2	1.85	0.90
23:AW:38:U:H3	23:AW:39:A:H62	1.12	0.90
19:CS:62:ILE:HD12	19:CS:66:MET:HE2	1.51	0.90
35:DA:271(M):G:H2'	35:DA:271(N):U:H5"	1.53	0.90
31:B6:11:LEU:HD11	31:B6:26:ASN:HB2	1.54	0.90
43:BI:92:VAL:HG13	43:BI:97:ILE:HG13	1.54	0.90
57:DZ:74:VAL:HG12	57:DZ:86:VAL:HG12	1.53	0.90
23:AW:13:U:H3'	23:AW:13:U:C6	2.04	0.90
22:AY:60:A:N1	57:BZ:186:GLU:HB2	1.86	0.90
51:BT:129:ARG:HH12	51:BT:131:ALA:HB2	1.36	0.90
46:DO:35:VAL:HG11	46:DO:103:ALA:HB3	1.54	0.90
27:B2:13:ALA:HA	27:B2:16:LEU:HD12	1.50	0.90
31:B6:12:GLU:HG2	31:B6:23:THR:HG22	1.52	0.90
35:BA:1484:G:C2'	35:BA:1485:G:H5"	1.99	0.90
23:CW:16:U:H1'	23:CW:62:U:H4'	1.52	0.90
22:CY:20:G:H3'	22:CY:21:U:C5'	2.02	0.90
31:D6:11:LEU:HD11	31:D6:26:ASN:HB2	1.53	0.90
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.07	0.90
35:DA:2392:A:H2	35:DA:2424:C:H42	1.16	0.90
1:AA:92:C:H2'	1:AA:93:G:C8	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:13:U:H3'	23:CW:13:U:C6	2.07	0.90
35:DA:2306:C:H4'	41:DG:136:ARG:HH22	1.37	0.90
41:DG:46:ALA:HB3	41:DG:82:LEU:HD11	1.53	0.90
48:BQ:60:ARG:CA	57:BZ:179:ASP:HA	2.00	0.90
22:CV:30:U:H2'	22:CV:31:C:C6	2.06	0.90
33:B8:48:PHE:O	33:B8:49:VAL:HG13	1.72	0.90
35:BA:1537:G:H2'	35:BA:1538:G:H8	1.34	0.90
1:CA:475:G:H2'	1:CA:476:G:C8	2.07	0.90
47:DP:101:VAL:HB	47:DP:107:LYS:HA	1.51	0.90
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	1.99	0.90
22:AY:52:C:H2'	22:AY:53:U:C6	2.07	0.90
47:BP:85:LEU:HD23	47:BP:85:LEU:H	1.37	0.90
55:BX:35:THR:O	55:BX:39:ILE:HG12	1.71	0.90
12:CL:75:HIS:HD2	12:CL:77:LEU:HB2	1.37	0.90
26:D1:23:LYS:HD2	26:D1:28:GLY:HA3	1.53	0.90
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.51	0.90
41:DG:122:PRO:HB3	41:DG:182:LYS:HA	1.53	0.90
53:DV:19:LYS:HZ3	53:DV:20:LEU:H	0.94	0.90
56:DY:44:ILE:O	56:DY:62:GLU:HG3	1.71	0.90
1:AA:537:G:H5"	12:AL:113:ARG:HH12	1.34	0.89
2:AB:136:VAL:O	2:AB:140:HIS:HB2	1.72	0.89
23:AW:38:U:H3	23:AW:39:A:N6	1.70	0.89
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.01	0.89
53:DV:21:ARG:HG2	53:DV:91:TYR:CD2	2.08	0.89
35:BA:2523:G:C2'	35:BA:2524:G:H5"	2.02	0.89
47:BP:48:PRO:HG2	47:BP:49:ARG:H	1.34	0.89
53:BV:21:ARG:HG2	53:BV:91:TYR:CD2	2.07	0.89
56:BY:44:ILE:O	56:BY:62:GLU:HG3	1.70	0.89
45:DN:15:LEU:HB2	45:DN:134:ARG:HB2	1.51	0.89
4:AD:9:CYS:SG	58:AD:1000:ZN:ZN	1.61	0.89
23:AW:13:U:H2'	23:AW:14:A:H4'	1.55	0.89
43:BI:92:VAL:HG12	43:BI:120:ILE:HD13	1.54	0.89
48:BQ:34:LEU:HD11	48:BQ:129:THR:HB	1.51	0.89
50:BS:35:ILE:HD11	50:BS:99:LYS:HE2	1.51	0.89
1:CA:92:C:H2'	1:CA:93:G:C8	2.07	0.89
1:AA:266:G:H5"	1:AA:268:C:H41	1.37	0.89
1:CA:1377:A:H2'	7:CG:7:ALA:CB	2.02	0.89
38:DD:30:GLU:HG3	38:DD:63:ARG:CZ	2.02	0.89
51:DT:129:ARG:HH12	51:DT:131:ALA:HB2	1.35	0.89
22:AV:12:U:H2'	22:AV:13:U:O4'	1.72	0.89
57:BZ:179:ASP:O	57:BZ:182:LYS:HE2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:45:PRO:HG2	12:CL:51:ALA:N	1.88	0.89
31:D6:37:ARG:HH21	35:DA:2286:A:H62	1.18	0.89
35:DA:991:C:H5'	35:DA:991:C:H6	1.36	0.89
40:DF:28:ILE:HG21	40:DF:116:ASP:HB2	1.52	0.89
43:DI:109:ILE:HG22	43:DI:110:ASP:H	1.36	0.89
47:DP:55:ARG:HG2	47:DP:56:SER:N	1.83	0.89
1:AA:81:U:H3	1:AA:88:A:H62	1.16	0.89
2:AB:80:ILE:HD11	2:AB:208:ILE:HG23	1.52	0.89
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	1.86	0.89
50:BS:97:ARG:HH21	50:BS:98:VAL:HA	1.36	0.89
22:AY:10:G:N2	22:AY:28:G:H1'	1.87	0.89
41:BG:46:ALA:HB3	41:BG:82:LEU:HD13	1.55	0.89
9:CI:127:LYS:NZ	22:CV:36:AG9:OP2	2.04	0.89
13:CM:91:ARG:HH21	13:CM:100:GLY:HA2	1.37	0.89
22:CY:56:U:H5'	57:DZ:180:VAL:HG12	1.54	0.89
38:DD:43:ARG:HH11	38:DD:44:ASN:HD21	1.14	0.89
41:DG:63:ILE:HA	41:DG:143:GLU:CG	2.01	0.89
42:DH:41:MET:CG	42:DH:42:ARG:H	1.85	0.89
2:AB:178:ARG:HH21	8:AH:68:ARG:HH22	1.19	0.89
49:BR:10:LEU:HB3	49:BR:17:ARG:CD	2.03	0.89
2:CB:178:ARG:NH2	8:CH:68:ARG:HH22	1.69	0.89
47:DP:48:PRO:HG2	47:DP:49:ARG:H	1.33	0.89
39:BE:101:ARG:NH1	39:BE:171:GLU:HB2	1.88	0.89
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.72	0.89
45:BN:15:LEU:HB2	45:BN:134:ARG:HB2	1.53	0.89
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.72	0.89
56:DY:27:VAL:HA	56:DY:28:LYS:HZ1	1.38	0.89
38:BD:35:LYS:O	38:BD:37:LEU:N	2.06	0.89
43:BI:79:ILE:HG22	43:BI:81:VAL:HG12	1.54	0.89
50:BS:67:ARG:HH11	50:BS:67:ARG:HB3	1.38	0.89
51:BT:125:ARG:O	51:BT:128:GLU:HG3	1.73	0.89
52:DU:34:LYS:HA	52:DU:34:LYS:HE2	1.53	0.89
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.35	0.88
22:AY:20:G:H3'	22:AY:21:U:C5'	2.02	0.88
28:D3:8:LEU:HB2	28:D3:28:LEU:HD13	1.54	0.88
50:DS:97:ARG:HH21	50:DS:98:VAL:HA	1.37	0.88
51:DT:28:VAL:HG22	51:DT:47:GLY:N	1.88	0.88
1:AA:1377:A:H2'	7:AG:7:ALA:CB	2.03	0.88
23:AW:31:C:H2'	23:AW:32:G:H8	1.37	0.88
23:AW:71:G:H2'	23:AW:72:C:H5'	1.54	0.88
25:D0:14:ARG:HB2	25:D0:14:ARG:HH11	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:20:LEU:HA	19:AS:23:ASN:HD22	1.36	0.88
35:BA:881:G:H1	35:BA:895:U:H3	1.21	0.88
36:BB:7:G:C3'	36:BB:8:U:H5"	2.02	0.88
45:BN:76:SER:O	45:BN:78:TYR:N	2.05	0.88
53:BV:19:LYS:HG2	53:BV:94:LEU:HB2	1.53	0.88
43:DI:92:VAL:HG12	43:DI:120:ILE:HD13	1.55	0.88
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.55	0.88
19:AS:45:VAL:HG12	19:AS:63:THR:HA	1.56	0.88
38:BD:43:ARG:HH11	38:BD:44:ASN:HD21	1.17	0.88
45:BN:111:PRO:HA	45:BN:114:ARG:NH1	1.86	0.88
57:BZ:183:LEU:HG	57:BZ:186:GLU:OE2	1.73	0.88
12:CL:57:LYS:HA	12:CL:66:VAL:O	1.73	0.88
22:CY:60:A:N1	57:DZ:186:GLU:N	2.21	0.88
29:D4:13:ARG:HH11	29:D4:13:ARG:HB3	1.36	0.88
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.04	0.88
41:DG:63:ILE:HG21	41:DG:141:PHE:HB3	1.56	0.88
49:DR:38:VAL:HB	49:DR:39:PRO:HD3	1.55	0.88
51:DT:125:ARG:O	51:DT:128:GLU:HG3	1.73	0.88
22:AV:30:U:H2'	22:AV:31:C:H6	1.35	0.88
1:CA:19:C:H5"	5:CE:86:ALA:CB	2.03	0.88
33:D8:59:LYS:HB2	33:D8:59:LYS:NZ	1.85	0.88
35:DA:613:G:H5'	35:DA:613:G:H8	1.38	0.88
35:DA:2523:G:C2'	35:DA:2524:G:H5"	2.02	0.88
41:DG:101:ILE:HG22	41:DG:105:LYS:HE3	1.54	0.88
50:DS:34:HIS:HB3	50:DS:53:SER:HB3	1.54	0.88
35:BA:483:A:H5"	56:BY:49:VAL:HG22	1.54	0.88
38:DD:221:VAL:CG2	38:DD:226:MET:HE2	2.04	0.88
38:DD:221:VAL:HG22	38:DD:226:MET:HE2	1.55	0.88
12:AL:48:PRO:C	12:AL:49:ASN:HD22	1.82	0.88
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.01	0.88
38:BD:30:GLU:HG3	38:BD:63:ARG:CZ	2.04	0.88
56:BY:96:ILE:HG22	56:BY:97:ARG:H	1.37	0.88
57:BZ:117:LEU:HD12	57:BZ:173:ALA:O	1.74	0.88
12:CL:83:VAL:HG13	12:CL:84:LEU:N	1.89	0.88
22:AV:10:G:N2	22:AV:28:G:H1'	1.88	0.88
35:BA:1887:C:H2'	35:BA:1888:G:H5"	1.53	0.88
12:CL:83:VAL:HG13	12:CL:84:LEU:H	1.39	0.88
23:CW:15:G:H22	23:CW:23:A:H1'	1.37	0.88
36:DB:20:C:C2'	36:DB:21:G:H5"	2.03	0.88
45:DN:43:THR:HB	45:DN:46:VAL:HG12	1.56	0.88
45:DN:76:SER:O	45:DN:78:TYR:N	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:76:CYS:HB3	56:DY:96:ILE:HD11	1.55	0.88
2:AB:91:PRO:HG2	2:AB:155:LEU:HD23	1.56	0.88
57:BZ:91:LEU:HD22	57:BZ:96:VAL:HG11	1.56	0.88
51:DT:13:ARG:HA	51:DT:13:ARG:NH1	1.88	0.88
41:BG:58:GLN:O	41:BG:62:LEU:HD13	1.73	0.88
1:CA:736:C:H2'	1:CA:737:A:C8	2.09	0.88
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.54	0.88
2:CB:102:LEU:H	2:CB:102:LEU:HD12	1.39	0.88
22:CY:52:C:H2'	22:CY:53:U:C6	2.08	0.88
27:D2:3:LEU:HD22	27:D2:7:ARG:NH1	1.89	0.88
43:DI:79:ILE:HG22	43:DI:81:VAL:HG12	1.55	0.88
49:DR:10:LEU:HB3	49:DR:17:ARG:CD	2.04	0.88
1:AA:736:C:H2'	1:AA:737:A:C8	2.10	0.87
1:AA:736:C:H2'	1:AA:737:A:H8	1.39	0.87
23:AW:31:C:H2'	23:AW:32:G:C8	2.09	0.87
29:B4:13:ARG:HH11	29:B4:13:ARG:HB3	1.36	0.87
31:B6:19:ARG:HG2	35:BA:2400:G:H4'	1.56	0.87
51:BT:28:VAL:HG22	51:BT:47:GLY:H	1.39	0.87
53:BV:19:LYS:HZ3	53:BV:20:LEU:N	1.72	0.87
39:DE:101:ARG:NH1	39:DE:171:GLU:HB2	1.89	0.87
35:BA:330:A:H2	35:BA:1210:A:H2'	1.39	0.87
35:BA:1639:U:C2'	35:BA:1640:C:H5"	2.04	0.87
42:BH:33:LEU:HD12	42:BH:75:ALA:HA	1.54	0.87
2:CB:140:HIS:HA	2:CB:143:GLU:HG2	1.56	0.87
15:CO:39:LEU:HD12	15:CO:56:LEU:HD13	1.54	0.87
33:D8:58:ILE:HG22	47:DP:49:ARG:HD2	1.56	0.87
47:DP:23:PRO:HD2	47:DP:33:ARG:NH2	1.88	0.87
33:B8:59:LYS:HD3	47:BP:50:ARG:HB3	1.57	0.87
35:BA:2392:A:H2	35:BA:2424:C:H42	1.19	0.87
37:BC:21:TYR:HB2	37:BC:225:ILE:HG22	1.56	0.87
47:BP:115:LEU:HA	47:BP:134:ALA:HB2	1.55	0.87
48:BQ:43:THR:OG1	48:BQ:46:GLN:HG3	1.75	0.87
39:DE:36:ARG:NH2	39:DE:88:GLY:HA2	1.88	0.87
40:DF:25:PRO:HB3	40:DF:119:ARG:HD3	1.56	0.87
12:AL:83:VAL:HG13	12:AL:84:LEU:N	1.88	0.87
23:AW:58:C:H42	35:BA:2169:A:H1'	1.38	0.87
30:B5:54:GLY:N	30:B5:55:ARG:HE	1.72	0.87
47:BP:16:ARG:HD3	47:BP:18:ARG:H	1.39	0.87
56:BY:28:LYS:N	56:BY:28:LYS:HZ1	1.71	0.87
22:CY:55:G:C2	22:CY:56:U:O2	2.28	0.87
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:76:CYS:HB3	56:BY:96:ILE:HD11	1.57	0.87
33:D8:48:PHE:O	33:D8:49:VAL:HG13	1.73	0.87
43:DI:113:ARG:HB3	43:DI:113:ARG:NH1	1.90	0.87
3:AC:54:ARG:HH11	3:AC:56:ASP:HB2	1.40	0.87
35:BA:322:A:H3'	40:BF:169:ASN:ND2	1.89	0.87
47:BP:6:LEU:HD23	47:BP:6:LEU:H	1.38	0.87
56:DY:96:ILE:HG22	56:DY:97:ARG:H	1.37	0.87
23:AW:73:C:C3'	23:AW:74:C:H5"	2.04	0.87
22:AY:19:G:N1	22:AY:57:U:O2	2.06	0.87
22:AY:20:G:N2	22:AY:58:C:N3	2.22	0.87
5:CE:148:VAL:HG21	8:CH:107:LEU:HD22	1.57	0.87
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.05	0.87
12:CL:48:PRO:C	12:CL:49:ASN:HD22	1.82	0.87
22:CV:70:G:H2'	22:CV:71:G:H8	1.39	0.87
23:CW:61:A:C2'	23:CW:62:U:H5'	2.05	0.87
23:CW:73:C:C3'	23:CW:74:C:H5"	2.05	0.87
36:DB:7:G:C3'	36:DB:8:U:H5"	2.03	0.87
41:DG:152:LEU:HD23	41:DG:152:LEU:H	1.39	0.87
36:BB:20:C:C2'	36:BB:21:G:H5"	2.04	0.87
41:BG:72:ARG:HD3	41:BG:86:MET:HA	1.55	0.87
50:BS:34:HIS:HB3	50:BS:53:SER:HB3	1.53	0.87
51:BT:28:VAL:HB	51:BT:88:ILE:HG12	1.57	0.87
5:CE:76:ILE:HG12	5:CE:77:PRO:HD2	1.57	0.87
12:CL:72:GLY:O	12:CL:73:GLU:HG3	1.75	0.87
33:D8:59:LYS:HD3	47:DP:50:ARG:HB3	1.54	0.87
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.39	0.87
1:AA:19:C:H5"	5:AE:86:ALA:CB	2.05	0.86
2:AB:140:HIS:HA	2:AB:143:GLU:HG2	1.56	0.86
1:CA:114:U:H2'	1:CA:115:G:C8	2.10	0.86
1:CA:1277:C:C2'	1:CA:1278:U:H5'	2.05	0.86
3:CC:54:ARG:HH11	3:CC:56:ASP:HB2	1.39	0.86
10:CJ:30:SER:HA	10:CJ:80:LYS:HE2	1.56	0.86
23:AW:10:G:H2'	23:AW:11:C:H6	1.40	0.86
22:AY:20:G:H1	22:AY:58:C:H42	1.22	0.86
2:CB:136:VAL:O	2:CB:140:HIS:HB2	1.73	0.86
23:CW:13:U:H2'	23:CW:14:A:C5'	2.05	0.86
22:CY:59:G:OP2	57:DZ:181:GLU:O	1.94	0.86
22:AV:17:C:H5"	22:AV:18:U:C6	2.10	0.86
5:CE:99:GLY:O	5:CE:117:ASP:HA	1.75	0.86
22:CY:61:A:H2'	22:CY:62:U:H5'	1.57	0.86
47:DP:85:LEU:HD23	47:DP:85:LEU:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:102:LEU:H	2:AB:102:LEU:HD12	1.38	0.86
12:AL:45:PRO:HG2	12:AL:51:ALA:N	1.89	0.86
23:AW:27:C:H3'	23:AW:28:G:H8	1.40	0.86
28:B3:8:LEU:HB2	28:B3:28:LEU:HD13	1.57	0.86
35:BA:613:G:H8	35:BA:613:G:H5'	1.40	0.86
35:BA:991:C:H5'	35:BA:991:C:H6	1.39	0.86
40:BF:83:PHE:O	40:BF:84:VAL:HB	1.75	0.86
32:D7:8:ASN:HD22	32:D7:8:ASN:C	1.77	0.86
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	1.89	0.86
37:DC:21:TYR:HB2	37:DC:225:ILE:HG22	1.58	0.86
48:DQ:43:THR:HB	48:DQ:45:GLN:HE21	1.40	0.86
57:DZ:40:ASP:OD1	57:DZ:42:VAL:HG12	1.76	0.86
22:AY:57:U:C6	57:BZ:182:LYS:C	2.53	0.86
23:AW:20:G:H3'	23:AW:21:U:H5"	1.58	0.86
25:B0:5:LYS:HZ2	25:B0:5:LYS:HB3	1.39	0.86
35:BA:2876:G:H4'	51:BT:3:ARG:NE	1.91	0.86
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.41	0.86
38:BD:221:VAL:HG22	38:BD:226:MET:HE2	1.58	0.86
49:BR:38:VAL:HB	49:BR:39:PRO:HD3	1.56	0.86
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	1.89	0.86
22:CY:57:U:C6	57:DZ:183:LEU:N	2.43	0.86
27:D2:46:GLN:HB2	27:D2:49:LYS:HE3	1.57	0.86
41:DG:105:LYS:HD3	41:DG:143:GLU:OE2	1.75	0.86
51:DT:28:VAL:HB	51:DT:88:ILE:HG12	1.56	0.86
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.06	0.86
12:AL:75:HIS:HD2	12:AL:77:LEU:HB2	1.38	0.86
56:BY:51:VAL:HG12	56:BY:53:PRO:HD2	1.55	0.86
45:DN:57:ALA:H	45:DN:124:ALA:HA	1.39	0.86
47:DP:16:ARG:HD3	47:DP:18:ARG:H	1.41	0.86
51:DT:88:ILE:HG22	51:DT:89:VAL:HG23	1.57	0.86
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.57	0.86
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	1.76	0.86
41:DG:67:LYS:HE3	41:DG:67:LYS:H	1.40	0.86
56:DY:51:VAL:HG12	56:DY:53:PRO:HD2	1.55	0.86
57:DZ:19:ARG:HH12	57:DZ:84:GLU:HA	1.40	0.86
1:AA:1054:C:C4	22:AY:36:AG9:H1'	2.10	0.86
1:AA:1278:U:H5"	1:AA:1279:A:O4'	1.76	0.86
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	1.56	0.86
45:BN:57:ALA:H	45:BN:124:ALA:HA	1.40	0.86
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ2	1.37	0.86
1:CA:194:C:H2'	1:CA:195:A:H5"	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.55	0.86
31:D6:19:ARG:HG2	35:DA:2400:G:H4'	1.58	0.86
39:DE:4:ILE:HD13	39:DE:28:ALA:HB1	1.58	0.86
26:B1:20:ARG:HH11	26:B1:20:ARG:HG2	1.39	0.86
23:CW:51:G:H1	23:CW:67:C:H42	1.24	0.86
45:DN:2:LYS:NZ	52:DU:95:LEU:HD21	1.90	0.86
23:AW:23:A:H3'	23:AW:48:G:O6	1.76	0.85
23:AW:74:C:H2'	23:AW:74:C:O2	1.76	0.85
51:BT:13:ARG:HA	51:BT:13:ARG:NH1	1.90	0.85
22:CY:61:A:C2'	22:CY:62:U:H5'	2.06	0.85
22:CY:63:C:O5'	57:DZ:186:GLU:CD	2.10	0.85
23:AW:11:C:H2'	23:AW:12:U:C6	2.11	0.85
22:AY:61:A:H2'	22:AY:62:U:H5'	1.57	0.85
51:DT:95:ARG:NH1	51:DT:95:ARG:HB3	1.91	0.85
57:DZ:104:PHE:HD1	57:DZ:139:VAL:HB	1.41	0.85
9:AI:17:VAL:HA	9:AI:63:ILE:HG12	1.56	0.85
38:BD:221:VAL:CG2	38:BD:226:MET:HE2	2.05	0.85
43:BI:113:ARG:NH1	43:BI:113:ARG:HB3	1.89	0.85
54:BW:10:VAL:O	54:BW:11:ARG:HB2	1.74	0.85
1:CA:383:A:H2'	1:CA:384:G:H5'	1.56	0.85
31:D6:23:THR:HG21	35:DA:2419:U:H5'	1.58	0.85
41:DG:31:VAL:HG22	41:DG:32:PRO:HD2	1.58	0.85
48:DQ:134:ARG:NH2	57:DZ:122:ARG:HE	1.73	0.85
50:DS:67:ARG:HH11	50:DS:67:ARG:HB3	1.37	0.85
57:DZ:145:GLU:HG3	57:DZ:146:ILE:N	1.90	0.85
12:AL:72:GLY:O	12:AL:73:GLU:HG3	1.76	0.85
56:BY:10:GLY:HA2	56:BY:27:VAL:HG13	1.56	0.85
9:CI:17:VAL:HA	9:CI:63:ILE:HG12	1.57	0.85
46:BO:35:VAL:HG11	46:BO:103:ALA:HB3	1.55	0.85
23:CW:73:C:H2'	23:CW:74:C:H5"	1.58	0.85
22:CY:57:U:C5	57:DZ:181:GLU:O	2.29	0.85
30:D5:54:GLY:N	30:D5:55:ARG:HE	1.74	0.85
35:DA:330:A:H2	35:DA:1210:A:H2'	1.39	0.85
38:DD:35:LYS:O	38:DD:37:LEU:N	2.09	0.85
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.58	0.85
2:AB:15:VAL:HG21	2:AB:209:ARG:HH21	1.41	0.85
23:AW:25:A:C2'	23:AW:26:G:C8	2.58	0.85
23:AW:51:G:H1	23:AW:67:C:H42	1.24	0.85
49:BR:10:LEU:HD22	49:BR:17:ARG:HD3	1.58	0.85
53:DV:19:LYS:HZ3	53:DV:20:LEU:N	1.72	0.85
23:AW:39:A:H2'	23:AW:41:C:OP2	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:58:ILE:HG22	47:BP:49:ARG:HD2	1.58	0.85
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.11	0.85
2:CB:15:VAL:HG21	2:CB:209:ARG:HH21	1.41	0.85
19:CS:45:VAL:HG12	19:CS:63:THR:HA	1.56	0.85
22:CY:57:U:O5'	57:DZ:182:LYS:HB3	1.69	0.85
30:D5:20:ARG:HA	30:D5:23:HIS:ND1	1.91	0.85
5:AE:76:ILE:HG12	5:AE:77:PRO:HD2	1.59	0.85
8:AH:86:ILE:HG21	8:AH:133:LEU:HD13	1.59	0.85
10:AJ:30:SER:HA	10:AJ:80:LYS:HE2	1.56	0.85
15:CO:82:ILE:HG12	15:CO:87:ILE:HG13	1.58	0.85
22:CY:55:G:H2'	22:CY:56:U:H1'	1.59	0.85
35:DA:545:C:H3'	35:DA:547:A:H5"	1.58	0.85
35:DA:1902:C:O2'	38:DD:244:ARG:HB2	1.77	0.85
51:DT:80:SER:HB3	51:DT:81:PRO:HD3	1.58	0.85
40:BF:25:PRO:HB3	40:BF:119:ARG:HD3	1.58	0.85
41:BG:130:ASN:ND2	41:BG:160:VAL:HG13	1.91	0.85
2:CB:91:PRO:HG2	2:CB:155:LEU:HD23	1.56	0.85
19:CS:16:LEU:H	19:CS:16:LEU:HD12	1.42	0.85
35:DA:881:G:H1	35:DA:895:U:H3	1.22	0.85
41:DG:76:SER:C	41:DG:78:SER:H	1.83	0.85
57:DZ:144:LEU:HD21	57:DZ:150:LEU:HD22	1.59	0.85
5:AE:99:GLY:O	5:AE:117:ASP:HA	1.77	0.85
10:AJ:16:LEU:HD23	10:AJ:94:VAL:HG13	1.55	0.85
51:BT:65:LYS:HA	51:BT:65:LYS:NZ	1.90	0.85
1:CA:1401:G:H8	1:CA:1401:G:OP1	1.60	0.85
13:CM:23:TYR:O	13:CM:66:LEU:HA	1.77	0.85
26:D1:45:ASN:HD21	26:D1:47:GLN:HE21	1.25	0.85
1:AA:1057:G:C5'	3:AC:154:SER:HB2	2.07	0.84
26:B1:45:ASN:ND2	35:BA:2090:G:H21	1.75	0.84
26:B1:51:VAL:HG13	26:B1:58:ILE:HD11	1.58	0.84
37:BC:48:LEU:HD11	37:BC:172:ILE:HG22	1.58	0.84
42:BH:149:ARG:HA	42:BH:162:ILE:HD11	1.58	0.84
48:BQ:43:THR:HB	48:BQ:45:GLN:HE21	1.42	0.84
29:D4:14:ILE:HA	29:D4:31:ILE:HB	1.59	0.84
38:DD:28:GLU:H	38:DD:29:PRO:HD2	1.40	0.84
45:DN:13:TRP:O	45:DN:135:PRO:HD2	1.77	0.84
47:DP:6:LEU:HD23	47:DP:6:LEU:H	1.41	0.84
1:AA:383:A:H2'	1:AA:384:G:H5'	1.59	0.84
3:AC:18:TRP:H	3:AC:18:TRP:HE3	1.22	0.84
32:B7:12:ARG:HD3	32:B7:46:VAL:HG21	1.58	0.84
22:CY:58:C:C5'	57:DZ:179:ASP:OD1	2.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:149:ARG:HA	42:DH:162:ILE:HD11	1.58	0.84
56:DY:10:GLY:HA2	56:DY:27:VAL:HG13	1.58	0.84
57:DZ:118:GLN:NE2	57:DZ:175:VAL:HG11	1.91	0.84
4:AD:22:LYS:HG3	4:AD:26:CYS:SG	2.16	0.84
35:BA:528:A:O2'	35:BA:529:A:H5'	1.77	0.84
35:BA:676:A:H8	35:BA:2069:G:H21	1.25	0.84
23:CW:13:U:H2'	23:CW:14:A:H4'	1.59	0.84
23:AW:61:A:C2'	23:AW:62:U:H5'	2.07	0.84
35:BA:2444:G:OP2	40:BF:68:LYS:HE2	1.77	0.84
45:BN:43:THR:HB	45:BN:46:VAL:HG12	1.57	0.84
23:CW:31:C:H2'	23:CW:32:G:H8	1.42	0.84
22:CY:35:U:H3'	22:CY:36:AG9:H15'	1.58	0.84
39:DE:101:ARG:HH11	39:DE:171:GLU:HB2	1.38	0.84
1:AA:373:A:H2'	1:AA:374:A:H8	1.40	0.84
22:AY:61:A:C2'	22:AY:62:U:H5'	2.06	0.84
22:AY:68:A:H2'	22:AY:69:G:O4'	1.77	0.84
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	1.77	0.84
1:CA:736:C:H2'	1:CA:737:A:H8	1.38	0.84
3:CC:119:ARG:HH21	3:CC:140:ARG:NH2	1.76	0.84
14:CN:27:CYS:HG	58:CN:1000:ZN:ZN	0.87	0.84
47:DP:47:ASP:HB3	47:DP:48:PRO:CA	2.08	0.84
19:AS:16:LEU:H	19:AS:16:LEU:HD12	1.42	0.84
23:AW:10:G:H2'	23:AW:11:C:C6	2.11	0.84
35:BA:1536:C:H2'	35:BA:1537:G:O4'	1.78	0.84
45:BN:111:PRO:HA	45:BN:114:ARG:HH12	1.39	0.84
1:CA:1196:U:N3	24:CX:23:A:N3	2.24	0.84
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.43	0.84
7:CG:120:ILE:H	7:CG:120:ILE:HD12	1.42	0.84
23:CW:20:G:H3'	23:CW:21:U:H5"	1.59	0.84
35:DA:676:A:H2	35:DA:802:A:H61	1.25	0.84
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.07	0.84
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.12	0.84
12:AL:83:VAL:HG13	12:AL:84:LEU:H	1.42	0.84
22:AY:35:U:H3'	22:AY:36:AG9:H15'	1.58	0.84
43:BI:74:ASN:HD22	43:BI:74:ASN:N	1.74	0.84
1:CA:1278:U:H5"	1:CA:1279:A:O4'	1.77	0.84
23:CW:10:G:H2'	23:CW:11:C:C6	2.13	0.84
35:DA:612:C:H2'	35:DA:613:G:C5'	2.04	0.84
35:DA:1047:G:H2'	35:DA:1110:G:N2	1.93	0.84
35:DA:1639:U:C2'	35:DA:1640:C:H5"	2.07	0.84
35:DA:1826:G:H4'	38:DD:242:ARG:HH21	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:58:THR:O	47:DP:61:ARG:NE	2.10	0.84
35:BA:197:A:H8	35:BA:197:A:H5'	1.41	0.84
38:BD:261:LYS:HZ1	38:BD:263:ARG:HH22	1.24	0.84
39:BE:36:ARG:HH21	39:BE:88:GLY:CA	1.90	0.84
2:CB:75:LYS:HA	2:CB:78:GLN:HE21	1.42	0.84
13:CM:116:THR:CG2	22:CV:31:C:H4'	2.08	0.84
52:DU:108:GLU:HG3	53:DV:44:LYS:HD3	1.58	0.84
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.03	0.84
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.60	0.84
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.60	0.84
3:CC:18:TRP:H	3:CC:18:TRP:HE3	1.22	0.84
4:CD:110:PHE:H	4:CD:110:PHE:HD1	1.25	0.84
38:DD:261:LYS:HZ1	38:DD:263:ARG:HH22	1.25	0.84
1:AA:161:A:H2'	1:AA:162:A:H8	1.42	0.83
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	1.93	0.83
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.59	0.83
43:BI:113:ARG:HB3	43:BI:113:ARG:HH11	1.42	0.83
1:CA:373:A:H2'	1:CA:374:A:H8	1.42	0.83
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.03	0.83
1:CA:1057:G:C5'	3:CC:154:SER:HB2	2.07	0.83
22:CV:10:G:N2	22:CV:28:G:H1'	1.93	0.83
22:CV:17:C:H5"	22:CV:18:U:C6	2.13	0.83
22:CY:26:G:H2'	22:CY:27:C:C6	2.13	0.83
22:CY:68:A:H2'	22:CY:69:G:O4'	1.78	0.83
41:DG:63:ILE:HA	41:DG:143:GLU:HG3	1.57	0.83
43:DI:74:ASN:HD22	43:DI:74:ASN:N	1.71	0.83
2:AB:75:LYS:HA	2:AB:78:GLN:HE21	1.43	0.83
39:BE:4:ILE:HD13	39:BE:28:ALA:HB1	1.58	0.83
35:DA:528:A:O2'	35:DA:529:A:H5'	1.78	0.83
43:DI:92:VAL:HG13	43:DI:97:ILE:HG13	1.57	0.83
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.60	0.83
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	1.57	0.83
23:AW:70:G:C5	23:AW:71:G:C5	2.66	0.83
31:B6:23:THR:HG21	35:BA:2419:U:H5'	1.59	0.83
53:BV:64:HIS:ND1	53:BV:92:THR:HG22	1.93	0.83
7:CG:79:ARG:HG2	7:CG:81:GLY:H	1.43	0.83
23:CW:51:G:H1	23:CW:67:C:N4	1.77	0.83
37:DC:48:LEU:HD11	37:DC:172:ILE:HG22	1.58	0.83
41:DG:97:ASP:O	41:DG:101:ILE:HG13	1.77	0.83
43:DI:77:LEU:HD22	43:DI:140:LEU:HA	1.60	0.83
48:DQ:55:VAL:HG12	48:DQ:64:ILE:HD12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:58:LEU:HD23	50:DS:65:VAL:HG13	1.61	0.83
52:DU:83:LEU:HD12	52:DU:88:ILE:HD12	1.60	0.83
57:DZ:118:GLN:HE21	57:DZ:175:VAL:HG11	1.41	0.83
1:AA:194:C:H2'	1:AA:195:A:H5"	1.57	0.83
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	1.91	0.83
23:AW:10:G:O6	23:AW:27:C:H2'	1.78	0.83
52:BU:108:GLU:HG3	53:BV:44:LYS:HD3	1.60	0.83
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.60	0.83
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.58	0.83
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.58	0.83
22:CY:24:A:N6	22:CY:48:G:N2	2.27	0.83
47:DP:30:THR:CG2	47:DP:31:ALA:H	1.91	0.83
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.42	0.83
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.60	0.83
22:AY:26:G:H2'	22:AY:27:C:C6	2.12	0.83
1:CA:266:G:H5"	1:CA:268:C:H41	1.44	0.83
35:DA:197:A:H8	35:DA:197:A:H5'	1.44	0.83
41:DG:4:ASP:HA	41:DG:8:LYS:HD3	1.58	0.83
54:DW:10:VAL:O	54:DW:11:ARG:HB2	1.76	0.83
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.59	0.83
22:AV:70:G:H2'	22:AV:71:G:C8	2.13	0.83
23:AW:13:U:H2'	23:AW:14:A:C5'	2.09	0.83
22:AY:10:G:H2'	22:AY:11:C:C6	2.13	0.83
35:BA:545:C:H3'	35:BA:547:A:H5"	1.58	0.83
56:BY:81:LYS:HD3	56:BY:97:ARG:HB3	1.60	0.83
1:AA:1116:C:H2'	1:AA:1117:G:H5"	1.60	0.83
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.43	0.83
22:AV:4:C:O2'	22:AV:5:C:H6	1.60	0.83
43:BI:77:LEU:HD22	43:BI:140:LEU:HA	1.60	0.83
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.61	0.83
12:CL:66:VAL:HG12	12:CL:67:THR:H	1.43	0.83
16:CP:1:MET:HE2	16:CP:65:GLN:HG3	1.60	0.83
25:D0:26:TYR:H	25:D0:29:GLN:NE2	1.76	0.83
36:DB:6:C:O2'	50:DS:29:PHE:HE2	1.61	0.83
41:DG:109:VAL:HG21	41:DG:142:PRO:HB3	1.60	0.83
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.04	0.83
23:AW:52:C:H2'	23:AW:53:U:C6	2.14	0.83
47:BP:30:THR:HG22	47:BP:31:ALA:N	1.93	0.83
3:CC:77:ILE:HA	3:CC:84:ILE:HB	1.61	0.83
35:DA:1779:U:H5	35:DA:1784:A:N7	1.77	0.83
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:120:ILE:H	7:AG:120:ILE:HD12	1.42	0.83
22:AY:11:C:H2'	22:AY:12:U:H6	1.41	0.83
39:BE:111:ARG:HA	49:BR:2:ARG:HG3	1.61	0.83
41:BG:91:ARG:HD2	41:BG:92:VAL:N	1.93	0.83
48:BQ:55:VAL:HG12	48:BQ:64:ILE:HD12	1.61	0.83
1:CA:728:A:H2'	1:CA:729:A:C8	2.13	0.83
23:CW:38:U:H3	23:CW:39:A:N6	1.75	0.83
23:CW:73:C:C2'	23:CW:74:C:H5"	2.08	0.83
35:DA:2036:C:H5'	35:DA:2036:C:H6	1.44	0.83
35:DA:2158:A:H4'	35:DA:2159:G:H5'	1.61	0.83
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.09	0.83
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.37	0.83
23:AW:51:G:H1	23:AW:67:C:N4	1.77	0.83
29:B4:14:ILE:HA	29:B4:31:ILE:HB	1.61	0.83
47:BP:58:THR:O	47:BP:61:ARG:NE	2.11	0.83
49:BR:2:ARG:HD3	49:BR:5:LYS:HE2	1.60	0.83
55:BX:12:VAL:HG21	55:BX:17:ALA:HB1	1.61	0.83
2:CB:162:ILE:HD11	2:CB:184:VAL:HG22	1.60	0.83
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.44	0.83
12:CL:56:ALA:O	12:CL:67:THR:HA	1.78	0.83
27:D2:2:LYS:HA	27:D2:5:GLU:OE1	1.79	0.83
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.60	0.83
46:DO:107:ARG:NH1	51:DT:35:LYS:HD2	1.94	0.83
3:AC:134:ILE:HD11	3:AC:153:VAL:HG23	1.61	0.82
13:AM:91:ARG:HH21	13:AM:100:GLY:HA2	1.42	0.82
19:AS:43:GLU:O	19:AS:43:GLU:HG2	1.77	0.82
35:BA:2103:C:H3'	35:BA:2104:G:H5"	1.61	0.82
35:BA:2580:U:H5'	39:BE:131:ALA:HB2	1.60	0.82
52:BU:83:LEU:HD12	52:BU:88:ILE:HD12	1.61	0.82
22:CY:31:C:C2'	22:CY:32:G:H5"	2.09	0.82
29:D4:34:GLU:HB3	41:DG:113:ARG:HH11	1.41	0.82
56:DY:81:LYS:HD3	56:DY:97:ARG:HB3	1.60	0.82
7:AG:79:ARG:HG2	7:AG:81:GLY:H	1.44	0.82
23:AW:45:U:H3'	23:AW:46:U:C6	2.13	0.82
56:BY:28:LYS:HZ1	56:BY:28:LYS:H	1.24	0.82
22:CV:4:C:O2'	22:CV:5:C:H6	1.62	0.82
35:DA:2132:U:H3	37:DC:6:LYS:HB2	1.44	0.82
49:DR:10:LEU:HD22	49:DR:17:ARG:HD3	1.59	0.82
1:AA:728:A:H2'	1:AA:729:A:C8	2.14	0.82
15:AO:82:ILE:HG12	15:AO:87:ILE:HG13	1.61	0.82
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.60	0.82
29:B4:1:MET:SD	41:BG:98:ARG:HG3	2.19	0.82
52:BU:70:ARG:HA	52:BU:74:LEU:O	1.78	0.82
1:CA:161:A:H2'	1:CA:162:A:H8	1.43	0.82
5:CE:145:LYS:O	5:CE:149:GLU:HG2	1.79	0.82
12:CL:36:VAL:N	12:CL:58:VAL:HG13	1.95	0.82
22:CY:24:A:H62	22:CY:48:G:N2	1.77	0.82
36:DB:104:U:O2'	57:DZ:72:ARG:HG2	1.78	0.82
46:DO:105:GLU:HA	46:DO:108:GLU:OE2	1.79	0.82
57:DZ:61:LEU:HD23	57:DZ:61:LEU:H	1.42	0.82
3:AC:107:GLN:CD	3:AC:107:GLN:H	1.88	0.82
4:AD:30:LYS:C	4:AD:32:ALA:H	1.86	0.82
13:AM:23:TYR:O	13:AM:66:LEU:HA	1.80	0.82
23:AW:73:C:H2'	23:AW:74:C:H5"	1.62	0.82
35:BA:1047:G:H2'	35:BA:1110:G:N2	1.94	0.82
1:CA:1116:C:H2'	1:CA:1117:G:H5"	1.61	0.82
22:CY:60:A:H2	57:DZ:186:GLU:HB2	1.37	0.82
51:DT:28:VAL:HG22	51:DT:47:GLY:H	1.43	0.82
1:AA:1054:C:N4	22:AY:36:AG9:C1'	2.41	0.82
23:AW:73:C:C2'	23:AW:74:C:H5"	2.09	0.82
35:BA:2158:A:H4'	35:BA:2159:G:H5'	1.62	0.82
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.15	0.82
42:BH:7:LEU:HD23	42:BH:69:ARG:CD	2.08	0.82
23:CW:31:C:H2'	23:CW:32:G:C8	2.14	0.82
22:CY:10:G:H2'	22:CY:11:C:C6	2.15	0.82
1:AA:439:A:H2'	1:AA:441:A:O4'	1.80	0.82
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.61	0.82
21:AU:12:LYS:HB3	21:AU:22:ARG:HD2	1.61	0.82
23:AW:39:A:C5	23:AW:41:C:OP1	2.32	0.82
42:BH:41:MET:HG3	42:BH:42:ARG:N	1.95	0.82
22:CY:63:C:H5'	57:DZ:186:GLU:HG3	1.61	0.82
37:DC:53:ARG:HD3	37:DC:53:ARG:H	1.45	0.82
47:DP:30:THR:HG22	47:DP:31:ALA:N	1.93	0.82
54:DW:78:GLU:OE2	54:DW:99:ARG:HD2	1.79	0.82
2:AB:178:ARG:NH2	8:AH:68:ARG:HH22	1.78	0.82
22:AV:20:G:C3'	22:AV:21:U:H5"	2.09	0.82
27:B2:55:ARG:HH11	27:B2:55:ARG:HG3	1.44	0.82
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.44	0.82
2:CB:91:PRO:HG3	2:CB:154:LEU:HB2	1.61	0.82
14:CN:27:CYS:SG	58:CN:1000:ZN:ZN	1.67	0.82
1:AA:67:C:H2'	1:AA:68:G:C8	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2313:C:H2'	35:BA:2314:C:H6	1.44	0.82
46:BO:18:LYS:HB2	46:BO:45:GLU:HG2	1.62	0.82
47:BP:61:ARG:H	47:BP:61:ARG:HD2	1.45	0.82
2:CB:178:ARG:HH21	8:CH:68:ARG:HH22	1.26	0.82
18:CR:70:ILE:O	18:CR:74:ARG:HG3	1.80	0.82
22:CY:57:U:P	57:DZ:182:LYS:HB2	2.19	0.82
27:D2:3:LEU:HD22	27:D2:7:ARG:HH12	1.45	0.82
38:DD:43:ARG:HH11	38:DD:44:ASN:ND2	1.78	0.82
49:DR:7:GLY:O	49:DR:8:ARG:HG2	1.80	0.82
53:DV:21:ARG:HG2	53:DV:91:TYR:HD2	1.44	0.82
54:DW:22:ASP:HA	54:DW:25:ARG:HH12	1.43	0.82
56:DY:79:CYS:SG	56:DY:80:GLY:N	2.53	0.82
3:AC:77:ILE:HA	3:AC:84:ILE:HB	1.62	0.82
26:B1:57:GLU:O	26:B1:58:ILE:HG12	1.80	0.82
45:BN:2:LYS:NZ	52:BU:95:LEU:HD21	1.94	0.82
54:BW:78:GLU:OE2	54:BW:99:ARG:HD2	1.80	0.82
4:CD:26:CYS:HG	4:CD:31:CYS:HG	1.14	0.82
35:DA:2103:C:H3'	35:DA:2104:G:H5"	1.61	0.82
35:DA:2876:G:H4'	51:DT:3:ARG:NE	1.92	0.82
39:DE:69:LYS:HE3	39:DE:90:THR:H	1.44	0.82
57:DZ:69:THR:HG22	57:DZ:90:VAL:HA	1.60	0.82
4:AD:110:PHE:HD1	4:AD:110:PHE:H	1.25	0.82
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.60	0.82
12:AL:36:VAL:N	12:AL:58:VAL:HG13	1.94	0.82
13:AM:2:ALA:HB3	13:AM:9:ILE:HG23	1.62	0.82
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.60	0.82
45:BN:13:TRP:O	45:BN:135:PRO:HD2	1.79	0.82
51:BT:95:ARG:HB3	51:BT:95:ARG:NH1	1.95	0.82
4:CD:125:HIS:C	4:CD:126:ILE:HD12	2.05	0.82
22:CV:20:G:C3'	22:CV:21:U:H5"	2.10	0.82
35:DA:1019:U:HO2'	35:DA:1021:A:H2	1.26	0.82
3:AC:108:ASN:ND2	3:AC:144:SER:HB2	1.95	0.81
15:AO:33:THR:HG21	15:AO:85:LEU:HD21	1.60	0.81
31:B6:45:LYS:HG2	35:BA:2371:G:H4'	1.61	0.81
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.60	0.81
54:BW:22:ASP:HA	54:BW:25:ARG:HH12	1.45	0.81
56:BY:28:LYS:H	56:BY:28:LYS:NZ	1.76	0.81
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	1.95	0.81
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.61	0.81
19:CS:43:GLU:HG2	19:CS:43:GLU:O	1.77	0.81
35:DA:156:U:H4'	35:DA:157:U:H5"	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:140:LEU:HD21	43:DI:142:VAL:HG23	1.61	0.81
25:B0:26:TYR:H	25:B0:29:GLN:NE2	1.78	0.81
35:BA:1453:U:H5'	49:BR:63:ARG:NE	1.94	0.81
51:BT:80:SER:HB3	51:BT:81:PRO:HD3	1.58	0.81
23:CW:27:C:H3'	23:CW:28:G:C8	2.15	0.81
35:DA:1038:C:C3'	35:DA:1039:G:H5"	2.09	0.81
52:DU:70:ARG:HA	52:DU:74:LEU:O	1.79	0.81
57:DZ:108:PRO:HB2	57:DZ:144:LEU:O	1.79	0.81
1:AA:1442(A):G:H2'	51:BT:118:ARG:HH11	1.42	0.81
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.61	0.81
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.45	0.81
4:AD:88:VAL:O	4:AD:92:VAL:HG23	1.80	0.81
16:AP:1:MET:HE2	16:AP:65:GLN:HG3	1.62	0.81
22:AV:27:C:H2'	22:AV:28:G:O4'	1.81	0.81
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.13	0.81
35:BA:2833:G:H3'	35:BA:2834:G:H5'	1.62	0.81
57:BZ:61:LEU:H	57:BZ:61:LEU:CD2	1.92	0.81
1:CA:1400:C:N4	22:CV:36:AG9:C4	2.43	0.81
1:CA:1498:U:H1'	1:CA:1499:A:N7	1.93	0.81
1:CA:1505:G:H5"	1:CA:1506:U:H5"	1.62	0.81
3:CC:134:ILE:HD11	3:CC:153:VAL:HG23	1.60	0.81
4:CD:126:ILE:HG22	4:CD:127:THR:N	1.94	0.81
23:CW:23:A:H3'	23:CW:48:G:O6	1.80	0.81
35:DA:1536:C:H2'	35:DA:1537:G:O4'	1.79	0.81
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.62	0.81
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.60	0.81
38:DD:268:ARG:HH11	38:DD:268:ARG:HB3	1.46	0.81
52:DU:112:ARG:NH1	53:DV:46:VAL:HG11	1.96	0.81
53:DV:64:HIS:ND1	53:DV:92:THR:HG22	1.94	0.81
35:BA:1540:U:H3'	35:BA:1541:G:H3'	1.63	0.81
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.14	0.81
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.11	0.81
45:BN:133:GLN:HG2	45:BN:135:PRO:HD3	1.60	0.81
57:BZ:61:LEU:HD23	57:BZ:61:LEU:N	1.94	0.81
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.61	0.81
15:CO:54:ARG:HD3	15:CO:58:MET:HE2	1.61	0.81
21:CU:12:LYS:HB3	21:CU:22:ARG:HD2	1.61	0.81
38:DD:30:GLU:HG3	38:DD:63:ARG:NE	1.96	0.81
52:DU:92:ARG:NH2	53:DV:10:LYS:HG2	1.96	0.81
35:BA:1639:U:O2'	35:BA:1640:C:H5"	1.80	0.81
47:BP:47:ASP:HB3	47:BP:48:PRO:CA	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:53:ILE:HA	57:BZ:71:VAL:HG23	1.61	0.81
57:BZ:175:VAL:HB	57:BZ:176:PRO:HD2	1.63	0.81
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.44	0.81
5:CE:7:GLU:HG2	5:CE:112:LEU:HB3	1.62	0.81
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.61	0.81
23:CW:39:A:H2'	23:CW:41:C:OP2	1.81	0.81
39:DE:10:GLY:HA3	51:DT:8:LYS:NZ	1.96	0.81
43:DI:27:ARG:HG3	43:DI:27:ARG:HH11	1.45	0.81
49:DR:11:ASN:O	49:DR:12:ARG:HG3	1.81	0.81
35:BA:1038:C:H3'	35:BA:1039:G:H5"	1.63	0.81
35:BA:2394:C:OP1	47:BP:63:PRO:HD2	1.80	0.81
1:CA:67:C:H2'	1:CA:68:G:C8	2.15	0.81
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.38	0.81
22:CY:57:U:H6	57:DZ:182:LYS:CB	1.93	0.81
32:D7:12:ARG:HD3	32:D7:46:VAL:HG21	1.61	0.81
39:DE:111:ARG:HA	49:DR:2:ARG:HG3	1.61	0.81
51:DT:65:LYS:HA	51:DT:65:LYS:NZ	1.94	0.81
56:DY:28:LYS:NZ	56:DY:28:LYS:H	1.79	0.81
12:AL:56:ALA:O	12:AL:67:THR:HA	1.81	0.81
22:AV:53:U:H1'	22:AV:66:G:N2	1.96	0.81
30:B5:51:TYR:CE2	30:B5:52:TYR:HB2	2.16	0.81
31:B6:45:LYS:HE3	35:BA:2371:G:H5"	1.62	0.81
35:BA:1038:C:C3'	35:BA:1039:G:H5"	2.11	0.81
38:BD:35:LYS:HD2	38:BD:35:LYS:C	2.05	0.81
50:BS:58:LEU:HD23	50:BS:65:VAL:HG13	1.63	0.81
51:BT:88:ILE:HG22	51:BT:89:VAL:HG23	1.60	0.81
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.62	0.81
4:CD:22:LYS:HG3	4:CD:26:CYS:SG	2.21	0.81
8:CH:86:ILE:HG21	8:CH:133:LEU:HD13	1.61	0.81
36:DB:80:U:H2'	36:DB:81:G:N2	1.96	0.81
38:DD:35:LYS:HD2	38:DD:35:LYS:C	2.06	0.81
43:DI:113:ARG:HB3	43:DI:113:ARG:HH11	1.41	0.81
48:DQ:43:THR:OG1	48:DQ:46:GLN:HG3	1.81	0.81
51:DT:85:LYS:HB3	51:DT:85:LYS:HZ3	1.43	0.81
4:AD:126:ILE:HG22	4:AD:127:THR:N	1.96	0.81
22:AY:30:U:H2'	22:AY:31:C:C6	2.16	0.81
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.63	0.81
36:BB:52:A:H62	50:BS:33:LYS:HG3	1.45	0.81
39:BE:69:LYS:HE3	39:BE:90:THR:H	1.44	0.81
43:BI:100:ALA:HA	43:BI:103:ARG:HD2	1.63	0.81
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:52:VAL:HG13	53:DV:55:ALA:HB3	1.62	0.81
3:AC:16:ARG:HB2	3:AC:16:ARG:NH1	1.94	0.81
20:CT:75:ASN:N	20:CT:75:ASN:HD22	1.77	0.81
23:CW:4:C:HO2'	23:CW:5:C:H5	1.25	0.81
22:CY:60:A:N7	57:DZ:184:ALA:HA	1.96	0.81
35:DA:676:A:H8	35:DA:2069:G:H21	1.26	0.81
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.15	0.81
3:AC:76:VAL:HG23	3:AC:77:ILE:H	1.46	0.81
7:AG:15:ASP:HB3	7:AG:19:GLY:N	1.96	0.81
12:AL:47:LYS:HZ3	12:AL:48:PRO:HD3	1.45	0.81
23:AW:7:U:N3	23:AW:69:G:C5	2.49	0.81
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.10	0.81
41:BG:55:LYS:O	41:BG:59:GLU:HB2	1.80	0.81
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.61	0.81
23:CW:61:A:H2'	23:CW:62:U:H5'	1.63	0.81
22:CY:56:U:H5'	57:DZ:180:VAL:CG1	2.11	0.81
35:DA:672:C:H2'	35:DA:673:C:H5'	1.62	0.81
57:DZ:72:ARG:HH21	57:DZ:89:PHE:HD2	1.24	0.81
1:AA:343:U:O2'	1:AA:344:A:H2'	1.81	0.80
2:AB:42:ILE:HD13	2:AB:203:GLY:HA2	1.63	0.80
35:BA:1464:C:HO2'	35:BA:1528:A:H8	0.82	0.80
39:BE:111:ARG:HA	49:BR:2:ARG:CG	2.11	0.80
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.81	0.80
7:AG:120:ILE:O	7:AG:124:LEU:HB2	1.81	0.80
22:AY:24:A:N6	22:AY:48:G:N2	2.29	0.80
42:BH:158:HIS:NE2	42:BH:170:ARG:HA	1.95	0.80
47:BP:146:VAL:HG22	47:BP:147:LEU:N	1.96	0.80
49:BR:11:ASN:O	49:BR:12:ARG:HG3	1.80	0.80
52:BU:92:ARG:NH2	53:BV:10:LYS:HG2	1.97	0.80
16:CP:18:ARG:HD3	16:CP:35:LYS:HD2	1.63	0.80
19:CS:36:ARG:NH1	19:CS:53:ASN:HA	1.96	0.80
22:CY:10:G:H22	22:CY:28:G:H1'	1.47	0.80
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.61	0.80
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.63	0.80
42:DH:66:GLY:HA2	42:DH:69:ARG:HD3	1.63	0.80
57:DZ:155:LEU:O	57:DZ:157:LEU:HD23	1.82	0.80
2:AB:91:PRO:HG3	2:AB:154:LEU:HB2	1.62	0.80
7:AG:85:TYR:HD2	7:AG:154:TYR:HE2	1.28	0.80
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.62	0.80
35:BA:2472:G:H5'	35:BA:2473:U:H5"	1.63	0.80
50:BS:13:ARG:HG3	50:BS:14:VAL:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:76:VAL:HG23	3:CC:77:ILE:H	1.46	0.80
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.11	0.80
35:DA:603:A:H4'	35:DA:604:G:O5'	1.82	0.80
35:DA:1348:G:C2'	35:DA:1349:A:H5"	2.11	0.80
35:DA:2313:C:H2'	35:DA:2314:C:H6	1.46	0.80
3:AC:40:ARG:HA	3:AC:55:VAL:HG11	1.62	0.80
22:AY:23:A:H2'	22:AY:24:A:C8	2.16	0.80
35:BA:2132:U:H3	37:BC:6:LYS:HB2	1.44	0.80
38:BD:43:ARG:HH11	38:BD:44:ASN:ND2	1.79	0.80
39:BE:69:LYS:HZ1	39:BE:89:ASP:HA	1.44	0.80
41:BG:130:ASN:HD21	41:BG:160:VAL:HG13	1.45	0.80
45:BN:55:VAL:HG22	45:BN:126:PRO:HA	1.61	0.80
54:BW:5:ALA:HB2	54:BW:54:ALA:HB2	1.62	0.80
2:CB:112:VAL:HA	2:CB:115:LEU:HB3	1.61	0.80
23:CW:10:G:H2'	23:CW:11:C:H6	1.44	0.80
23:CW:19:G:H21	23:CW:59:G:H2'	1.42	0.80
23:CW:39:A:C5	23:CW:41:C:OP1	2.34	0.80
30:D5:51:TYR:CE2	30:D5:52:TYR:HB2	2.17	0.80
23:AW:13:U:H2'	23:AW:14:A:C4'	2.12	0.80
38:BD:43:ARG:NH1	38:BD:44:ASN:ND2	2.30	0.80
49:BR:7:GLY:O	49:BR:8:ARG:HG2	1.80	0.80
44:DJ:97:UNK:HA	44:DJ:132:UNK:HA	1.62	0.80
12:AL:66:VAL:HG12	12:AL:67:THR:H	1.43	0.80
35:BA:1464:C:O2'	35:BA:1528:A:H8	1.64	0.80
42:BH:153:LYS:HD3	42:BH:153:LYS:H	1.47	0.80
43:BI:74:ASN:H	43:BI:74:ASN:ND2	1.78	0.80
22:CY:49:G:C3'	22:CY:50:C:H5'	2.11	0.80
22:CY:58:C:H3'	57:DZ:182:LYS:HZ3	1.46	0.80
42:DH:153:LYS:HD3	42:DH:153:LYS:H	1.45	0.80
45:DN:62:VAL:HG22	45:DN:66:LYS:HB2	1.62	0.80
51:DT:80:SER:CB	51:DT:81:PRO:HD3	2.11	0.80
55:DX:12:VAL:HG21	55:DX:27:THR:HG23	1.62	0.80
15:AO:54:ARG:HD3	15:AO:58:MET:HE2	1.62	0.80
23:AW:64:C:H5"	37:BC:53:ARG:O	1.81	0.80
29:B4:1:MET:HG3	41:BG:66:GLN:HG2	1.63	0.80
31:B6:37:ARG:NH2	35:BA:2286:A:H62	1.80	0.80
35:BA:156:U:H4'	35:BA:157:U:H5"	1.61	0.80
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.47	0.80
37:BC:53:ARG:HD3	37:BC:53:ARG:H	1.44	0.80
1:CA:673:G:H2'	1:CA:674:G:C8	2.17	0.80
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:209:ARG:HH11	2:CB:239:VAL:HG11	1.44	0.80
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.63	0.80
15:CO:33:THR:HG21	15:CO:85:LEU:HD21	1.62	0.80
42:DH:158:HIS:NE2	42:DH:170:ARG:HA	1.97	0.80
47:DP:16:ARG:HD3	47:DP:16:ARG:C	2.06	0.80
1:AA:427:U:H3'	1:AA:428:G:H5"	1.63	0.80
23:AW:17:C:H5"	23:AW:18:U:C6	2.17	0.80
23:AW:26:G:H2'	23:AW:27:C:C6	2.16	0.80
22:AY:11:C:N4	22:AY:47:G:N2	2.30	0.80
35:BA:1779:U:H5	35:BA:1784:A:N7	1.77	0.80
46:BO:25:LEU:HD11	46:BO:40:VAL:HG23	1.64	0.80
56:BY:28:LYS:HG2	56:BY:39:VAL:HG22	1.64	0.80
47:DP:146:VAL:HG22	47:DP:147:LEU:N	1.96	0.80
54:DW:92:ARG:HB3	54:DW:92:ARG:NH1	1.96	0.80
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.16	0.80
12:AL:38:THR:HG23	12:AL:39:VAL:HG23	1.64	0.80
23:AW:4:C:O2'	23:AW:5:C:H5	1.65	0.80
1:CA:1314:C:H5	19:CS:6:LYS:HE2	1.46	0.80
8:CH:12:ARG:HH12	8:CH:27:PRO:HD3	1.46	0.80
13:CM:54:VAL:O	13:CM:58:GLU:HG2	1.81	0.80
20:CT:18:GLN:O	20:CT:22:ARG:HG3	1.81	0.80
22:CV:30:U:H2'	22:CV:31:C:H6	1.43	0.80
35:DA:1464:C:HO2'	35:DA:1528:A:H8	0.81	0.80
38:DD:43:ARG:NH1	38:DD:44:ASN:ND2	2.29	0.80
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.12	0.80
22:AV:52:C:H2'	22:AV:53:U:C6	2.16	0.80
23:AW:4:C:H2'	23:AW:4:C:OP2	1.82	0.80
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.64	0.80
52:BU:91:ASP:OD1	52:BU:96:ALA:HB2	1.80	0.80
22:CV:4:C:HO2'	22:CV:5:C:H6	0.82	0.80
35:DA:1453:U:H5'	49:DR:63:ARG:NE	1.97	0.80
35:DA:2712:U:O2'	35:DA:2713:A:H5'	1.82	0.80
35:DA:2833:G:H3'	35:DA:2834:G:H5'	1.61	0.80
38:DD:66:ASP:OD2	38:DD:69:ARG:HG2	1.82	0.80
2:AB:112:VAL:HA	2:AB:115:LEU:HB3	1.62	0.79
20:AT:18:GLN:O	20:AT:22:ARG:HG3	1.82	0.79
47:BP:16:ARG:HD3	47:BP:16:ARG:C	2.06	0.79
49:BR:10:LEU:HB3	49:BR:17:ARG:NE	1.97	0.79
22:CY:20:G:H1	22:CY:58:C:N4	1.80	0.79
31:D6:37:ARG:NH2	35:DA:2286:A:H62	1.80	0.79
41:DG:139:LEU:HD12	41:DG:140:ILE:N	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:145:GLU:HG3	57:DZ:146:ILE:H	1.45	0.79
1:AA:735:C:H2'	1:AA:736:C:H6	1.45	0.79
3:AC:119:ARG:HH21	3:AC:140:ARG:NH2	1.80	0.79
4:AD:31:CYS:SG	4:AD:31:CYS:O	2.40	0.79
37:BC:7:ARG:HH22	37:BC:219:MET:HB3	1.47	0.79
38:BD:118:VAL:HG22	38:BD:119:ALA:H	1.45	0.79
41:BG:73:ALA:HB3	41:BG:85:GLY:HA2	1.65	0.79
46:BO:107:ARG:NH1	51:BT:35:LYS:HD2	1.97	0.79
1:CA:1515:C:H2'	1:CA:1516:G:C8	2.15	0.79
3:CC:107:GLN:CD	3:CC:107:GLN:H	1.89	0.79
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.17	0.79
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.64	0.79
41:DG:39:ILE:HG22	41:DG:157:ILE:HG12	1.63	0.79
45:DN:39:ARG:HD3	45:DN:41:ASP:HB2	1.64	0.79
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.64	0.79
23:AW:34:C:H5'	23:AW:35:U:OP1	1.82	0.79
35:BA:1348:G:C2'	35:BA:1349:A:H5"	2.12	0.79
38:BD:268:ARG:HH11	38:BD:268:ARG:HB3	1.46	0.79
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.46	0.79
35:DA:952:G:P	48:DQ:16:ARG:HH22	2.05	0.79
35:DA:1464:C:O2'	35:DA:1528:A:H8	1.64	0.79
35:DA:1697:G:H3'	35:DA:1698:A:H5"	1.64	0.79
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.82	0.79
35:DA:2580:U:H5'	39:DE:131:ALA:HB2	1.64	0.79
39:DE:111:ARG:HA	49:DR:2:ARG:CG	2.12	0.79
41:DG:68:PRO:HA	41:DG:92:VAL:HB	1.63	0.79
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.46	0.79
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.17	0.79
19:AS:6:LYS:H	19:AS:6:LYS:HD2	1.45	0.79
22:AV:4:C:HO2'	22:AV:5:C:H6	0.82	0.79
35:BA:676:A:H2	35:BA:802:A:H61	1.26	0.79
43:BI:27:ARG:HH11	43:BI:27:ARG:HG3	1.47	0.79
47:BP:55:ARG:HG2	47:BP:56:SER:N	1.89	0.79
53:BV:72:VAL:CG2	53:BV:85:LYS:HB3	2.11	0.79
1:CA:1492:A:H1'	1:CA:1493:A:OP2	1.81	0.79
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.17	0.79
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.48	0.79
23:CW:17:C:H5"	23:CW:18:U:C6	2.17	0.79
31:D6:9:LEU:O	31:D6:9:LEU:HD13	1.83	0.79
56:DY:31:LEU:HB2	56:DY:32:PRO:HA	1.65	0.79
35:BA:603:A:H4'	35:BA:604:G:O5'	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:192:U:H2'	1:CA:193:C:C6	2.18	0.79
3:CC:40:ARG:HA	3:CC:55:VAL:HG11	1.62	0.79
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	1.65	0.79
7:CG:120:ILE:O	7:CG:124:LEU:HB2	1.82	0.79
23:CW:13:U:H2'	23:CW:14:A:C4'	2.12	0.79
31:D6:45:LYS:HE3	35:DA:2371:G:H5"	1.62	0.79
35:DA:2315:G:H21	41:DG:128:ARG:NH1	1.80	0.79
35:DA:2394:C:OP1	47:DP:63:PRO:HD2	1.82	0.79
35:DA:2472:G:H5'	35:DA:2473:U:H5"	1.63	0.79
42:DH:121:ILE:HD11	42:DH:140:LYS:HB3	1.64	0.79
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.47	0.79
22:AY:20:G:H1	22:AY:58:C:N4	1.79	0.79
30:B5:53:ALA:HB3	30:B5:55:ARG:NH2	1.98	0.79
43:BI:140:LEU:HD21	43:BI:142:VAL:HG23	1.63	0.79
49:BR:113:LEU:O	49:BR:113:LEU:HD23	1.83	0.79
53:BV:52:VAL:HG13	53:BV:55:ALA:HB3	1.65	0.79
1:CA:735:C:H2'	1:CA:736:C:H6	1.45	0.79
33:D8:50:LEU:HD12	33:D8:51:ALA:N	1.97	0.79
50:DS:13:ARG:HG3	50:DS:14:VAL:H	1.46	0.79
1:AA:1321:C:C5'	1:AA:1322:C:H5"	2.13	0.79
7:AG:20:ASP:HB3	7:AG:23:VAL:HG23	1.64	0.79
13:AM:81:LEU:HD22	13:AM:88:ARG:HD3	1.65	0.79
19:AS:36:ARG:NH1	19:AS:53:ASN:HA	1.96	0.79
45:BN:62:VAL:HG22	45:BN:66:LYS:HB2	1.65	0.79
55:BX:12:VAL:HG21	55:BX:27:THR:HG23	1.65	0.79
1:CA:439:A:H2'	1:CA:441:A:O4'	1.82	0.79
12:CL:38:THR:HG23	12:CL:39:VAL:HG23	1.63	0.79
13:CM:2:ALA:HB3	13:CM:9:ILE:HG23	1.62	0.79
23:CW:40:A:OP2	23:CW:40:A:H4'	1.82	0.79
41:DG:19:LEU:HB3	41:DG:25:TYR:HE2	1.47	0.79
56:DY:28:LYS:HG2	56:DY:39:VAL:HG22	1.65	0.79
38:BD:35:LYS:HB3	38:BD:35:LYS:HZ2	1.48	0.79
40:BF:178:PRO:HB2	40:BF:201:VAL:HG11	1.64	0.79
1:CA:345:C:H5'	1:CA:346:G:C4	2.18	0.79
2:CB:42:ILE:HD13	2:CB:203:GLY:HA2	1.64	0.79
4:CD:30:LYS:C	4:CD:32:ALA:H	1.88	0.79
23:CW:58:C:N4	35:DA:2169:A:H1'	1.98	0.79
22:CY:17:C:H5"	22:CY:18:U:C6	2.18	0.79
25:D0:5:LYS:HB3	25:D0:5:LYS:HZ2	1.48	0.79
46:DO:18:LYS:HB2	46:DO:45:GLU:HG2	1.64	0.79
48:DQ:55:VAL:HG23	57:DZ:180:VAL:HG13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:42:VAL:HG12	56:DY:65:ALA:HB3	1.65	0.79
7:AG:84:ASN:HD21	23:AW:36:C:N4	1.81	0.79
15:AO:39:LEU:HD11	15:AO:56:LEU:HB2	1.65	0.79
53:BV:21:ARG:HG2	53:BV:91:TYR:HD2	1.43	0.79
22:CY:20:G:H1	22:CY:58:C:H42	1.30	0.79
35:DA:1318:C:H3'	35:DA:1319:G:H5"	1.65	0.79
38:DD:35:LYS:N	38:DD:36:PRO:HD2	1.98	0.79
57:DZ:39:VAL:HG21	57:DZ:44:PHE:HD2	1.47	0.79
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.63	0.79
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.63	0.79
35:BA:952:G:P	48:BQ:16:ARG:HH22	2.05	0.79
36:BB:80:U:H2'	36:BB:81:G:N2	1.97	0.79
41:BG:146:TYR:O	41:BG:149:VAL:HG12	1.83	0.79
54:BW:92:ARG:HB3	54:BW:92:ARG:NH1	1.97	0.79
1:CA:180:U:C2'	1:CA:181:G:H5"	2.13	0.79
35:DA:2562:U:H1'	46:DO:23:ARG:NH1	1.96	0.79
52:DU:91:ASP:OD1	52:DU:96:ALA:HB2	1.83	0.79
52:BU:79:PHE:CE1	52:BU:83:LEU:HD21	2.18	0.78
35:DA:155:U:H2'	35:DA:156:U:H5"	1.65	0.78
38:DD:24:ILE:HG12	38:DD:25:THR:N	1.98	0.78
45:DN:55:VAL:HG22	45:DN:126:PRO:HA	1.63	0.78
45:DN:133:GLN:HG2	45:DN:134:ARG:N	1.97	0.78
45:DN:133:GLN:HG2	45:DN:135:PRO:HD3	1.63	0.78
13:AM:13:LYS:HA	13:AM:44:ARG:HH11	1.46	0.78
13:AM:95:GLY:HA2	13:AM:110:ARG:HH21	1.47	0.78
22:AV:5:C:O2	22:AV:70:G:N2	2.16	0.78
22:AY:20:G:N1	22:AY:58:C:N4	2.30	0.78
31:B6:10:LEU:HD23	31:B6:10:LEU:H	1.48	0.78
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.65	0.78
7:CG:85:TYR:HD2	7:CG:154:TYR:HE2	1.29	0.78
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.16	0.78
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.09	0.78
46:DO:47:ILE:HG12	46:DO:48:PRO:HD2	1.65	0.78
1:AA:345:C:H5'	1:AA:346:G:C4	2.17	0.78
3:AC:182:ILE:HG12	3:AC:203:PHE:HA	1.65	0.78
23:AW:35:U:OP2	23:AW:35:U:H3'	1.84	0.78
23:AW:40:A:OP2	23:AW:40:A:H4'	1.81	0.78
22:AY:56:U:C3'	57:BZ:182:LYS:O	2.30	0.78
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.47	0.78
35:BA:2068:U:N3	35:BA:2430:A:H2	1.80	0.78
43:BI:92:VAL:HB	43:BI:120:ILE:HB	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:16:ARG:NH1	47:BP:16:ARG:HB2	1.99	0.78
1:CA:1152:A:H5'	10:CJ:70:ARG:NH2	1.98	0.78
26:D1:44:PRO:HB2	26:D1:46:LEU:CD1	2.13	0.78
35:DA:1528:A:N1	35:DA:1542:A:H2	1.81	0.78
38:DD:261:LYS:HZ1	38:DD:263:ARG:NH2	1.81	0.78
39:DE:103:ASP:OD2	39:DE:168:MET:HE2	1.83	0.78
5:AE:145:LYS:O	5:AE:149:GLU:HG2	1.82	0.78
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.63	0.78
12:AL:54:LYS:HD2	12:AL:54:LYS:H	1.48	0.78
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.65	0.78
1:CA:1321:C:C5'	1:CA:1322:C:H5"	2.14	0.78
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.65	0.78
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	1.84	0.78
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.48	0.78
31:D6:45:LYS:HG2	35:DA:2371:G:H4'	1.63	0.78
39:DE:59:VAL:O	39:DE:62:PRO:HD2	1.83	0.78
41:DG:64:THR:OG1	41:DG:94:LEU:HD11	1.83	0.78
53:DV:51:VAL:HG12	53:DV:52:VAL:H	1.48	0.78
5:AE:7:GLU:HG2	5:AE:112:LEU:HB3	1.63	0.78
23:AW:34:C:O2	23:AW:34:C:H2'	1.82	0.78
22:AY:31:C:C2'	22:AY:32:G:H5"	2.14	0.78
22:AY:63:C:H1'	57:BZ:186:GLU:CG	2.14	0.78
38:BD:30:GLU:HG3	38:BD:63:ARG:NE	1.98	0.78
45:BN:15:LEU:HD13	45:BN:16:ILE:N	1.99	0.78
53:BV:18:LEU:CD2	53:BV:19:LYS:H	1.96	0.78
56:BY:28:LYS:N	56:BY:28:LYS:NZ	2.31	0.78
1:CA:343:U:O2'	1:CA:344:A:H2'	1.84	0.78
13:CM:13:LYS:HA	13:CM:44:ARG:HH11	1.46	0.78
22:CY:1:G:O2'	22:CY:2:G:H5'	1.84	0.78
22:CY:19:G:C8	57:DZ:186:GLU:C	2.61	0.78
29:D4:25:TYR:CE1	41:DG:5:VAL:HG22	2.19	0.78
39:DE:111:ARG:HG2	49:DR:2:ARG:CZ	2.13	0.78
40:DF:89:VAL:HG12	40:DF:90:PHE:N	1.99	0.78
43:DI:118:LYS:HG2	43:DI:119:PRO:HD2	1.66	0.78
53:DV:72:VAL:CG2	53:DV:85:LYS:HB3	2.14	0.78
54:DW:9:TYR:H	54:DW:102:HIS:CD2	2.01	0.78
57:DZ:165:VAL:HG12	57:DZ:166:SER:N	1.99	0.78
12:AL:54:LYS:HB2	12:AL:70:ILE:HB	1.66	0.78
27:B2:47:ASN:HD22	35:BA:94(A):G:H21	1.31	0.78
35:BA:8:A:H2'	35:BA:9:U:C5	2.17	0.78
57:BZ:183:LEU:HD12	57:BZ:184:ALA:N	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:52:C:H2'	22:CV:53:U:C6	2.18	0.78
2:AB:162:ILE:HD11	2:AB:184:VAL:HG22	1.63	0.78
9:AI:16:ARG:O	9:AI:63:ILE:HG23	1.83	0.78
35:BA:1598:C:H5'	55:BX:36:LYS:HB2	1.65	0.78
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.66	0.78
47:BP:30:THR:CG2	47:BP:31:ALA:H	1.92	0.78
56:BY:42:VAL:HG12	56:BY:65:ALA:HB3	1.62	0.78
13:CM:95:GLY:HA2	13:CM:110:ARG:HH21	1.48	0.78
22:CY:55:G:H2'	22:CY:56:U:C1'	2.12	0.78
35:DA:2875:C:H4'	51:DT:5:ALA:HB2	1.64	0.78
40:DF:83:PHE:O	40:DF:84:VAL:HB	1.82	0.78
46:DO:25:LEU:HD11	46:DO:40:VAL:HG23	1.65	0.78
48:DQ:130:LYS:NZ	57:DZ:80:ARG:HD2	1.99	0.78
51:DT:46:GLU:O	51:DT:65:LYS:HD2	1.84	0.78
23:AW:16:U:H1'	23:AW:62:U:C4'	2.13	0.78
39:BE:111:ARG:HG2	49:BR:2:ARG:CZ	2.13	0.78
48:BQ:12:GLN:HG2	48:BQ:73:PRO:HD2	1.65	0.78
56:BY:27:VAL:HA	56:BY:28:LYS:HZ1	1.47	0.78
35:DA:544:G:H21	35:DA:547:A:H2'	1.49	0.78
35:DA:953:A:O2'	35:DA:954:G:H5'	1.84	0.78
35:DA:1038:C:H3'	35:DA:1039:G:H5"	1.63	0.78
37:DC:7:ARG:HH22	37:DC:219:MET:HB3	1.46	0.78
42:DH:41:MET:HG3	42:DH:42:ARG:N	1.96	0.78
47:DP:92:GLU:HG3	47:DP:93:GLY:H	1.49	0.78
53:DV:46:VAL:HG22	53:DV:47:VAL:H	1.49	0.78
54:DW:5:ALA:HB2	54:DW:54:ALA:HB2	1.64	0.78
57:DZ:151:HIS:HB3	57:DZ:170:THR:HA	1.63	0.78
38:BD:261:LYS:HZ1	38:BD:263:ARG:NH2	1.81	0.78
43:BI:127:VAL:HG13	43:BI:139:GLN:HA	1.64	0.78
1:CA:1397:C:O2	24:CX:22:A:N7	2.17	0.78
8:CH:4:ASP:HB2	8:CH:89:PRO:HG3	1.65	0.78
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.66	0.78
46:DO:2:ILE:CD1	46:DO:82:ASN:HD22	1.96	0.78
8:AH:20:TYR:CE2	8:AH:75:ARG:HD2	2.19	0.78
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.83	0.78
20:AT:75:ASN:N	20:AT:75:ASN:HD22	1.78	0.78
22:AY:56:U:H3'	57:BZ:182:LYS:C	2.08	0.78
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.82	0.78
39:BE:59:VAL:O	39:BE:62:PRO:HD2	1.83	0.78
51:BT:91:ARG:HA	51:BT:117:ASP:H	1.49	0.78
1:CA:1144:G:H21	1:CA:1146:A:H62	1.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:150:ARG:HA	5:CE:153:LYS:HE2	1.66	0.78
13:CM:3:ARG:NH2	41:DG:113:ARG:HB2	1.99	0.78
35:DA:8:A:H2'	35:DA:9:U:C5	2.18	0.78
38:DD:118:VAL:HG22	38:DD:119:ALA:H	1.47	0.78
8:AH:12:ARG:HH12	8:AH:27:PRO:HD3	1.49	0.77
8:AH:122:ARG:HB2	8:AH:122:ARG:HH11	1.49	0.77
33:B8:59:LYS:HB2	33:B8:59:LYS:HZ3	1.47	0.77
42:BH:121:ILE:HD11	42:BH:140:LYS:HB3	1.66	0.77
1:CA:1216:G:H5"	14:CN:5:ALA:HB2	1.66	0.77
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.00	0.77
2:CB:141:GLU:O	2:CB:145:LEU:HB2	1.84	0.77
4:CD:88:VAL:O	4:CD:92:VAL:HG23	1.84	0.77
22:CV:53:U:H1'	22:CV:66:G:N2	2.00	0.77
29:D4:2:LYS:HG3	36:DB:39:A:N1	2.00	0.77
38:DD:34:VAL:C	38:DD:36:PRO:HD2	2.09	0.77
57:DZ:109:ALA:HB3	57:DZ:145:GLU:HB2	1.65	0.77
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.64	0.77
23:AW:4:C:HO2'	23:AW:5:C:H5	1.31	0.77
39:BE:103:ASP:OD2	39:BE:168:MET:HE2	1.83	0.77
57:BZ:117:LEU:HA	57:BZ:174:VAL:HG22	1.63	0.77
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.66	0.77
23:CW:45:U:H3'	23:CW:46:U:C6	2.18	0.77
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.13	0.77
39:DE:11:MET:HE2	39:DE:24:THR:HB	1.67	0.77
41:DG:96:ARG:HA	41:DG:99:MET:HE2	1.66	0.77
47:DP:89:ALA:HA	47:DP:121:LYS:HD3	1.66	0.77
56:DY:8:LYS:HE2	56:DY:72:VAL:HG23	1.64	0.77
1:AA:180:U:C2'	1:AA:181:G:H5"	2.14	0.77
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	2.14	0.77
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.14	0.77
39:BE:77:ILE:HG22	39:BE:78:LEU:N	2.00	0.77
2:CB:47:THR:O	2:CB:51:LEU:HG	1.84	0.77
4:CD:31:CYS:SG	4:CD:31:CYS:O	2.42	0.77
23:CW:42:C:C2'	23:CW:43:G:H5'	2.14	0.77
27:D2:51:ARG:HD3	27:D2:55:ARG:NH1	1.99	0.77
53:DV:18:LEU:CD2	53:DV:19:LYS:H	1.97	0.77
8:AH:1:MET:H2	8:AH:1:MET:HE2	1.50	0.77
35:BA:612:C:H2'	35:BA:613:G:C5'	2.05	0.77
3:CC:77:ILE:HG23	3:CC:84:ILE:HG21	1.66	0.77
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.67	0.77
3:CC:182:ILE:HG12	3:CC:203:PHE:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:5:LYS:NZ	25:D0:5:LYS:HB3	2.00	0.77
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.49	0.77
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.14	0.77
41:DG:72:ARG:HG3	41:DG:87:PRO:HD2	1.66	0.77
42:DH:7:LEU:HD23	42:DH:69:ARG:CD	2.13	0.77
46:DO:111:PHE:HB3	46:DO:114:ILE:HD13	1.66	0.77
47:DP:98:GLU:O	47:DP:101:VAL:HG22	1.85	0.77
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.47	0.77
18:AR:58:LEU:H	18:AR:58:LEU:HD12	1.49	0.77
33:B8:50:LEU:HD12	33:B8:51:ALA:N	1.98	0.77
35:BA:2036:C:H5'	35:BA:2036:C:H6	1.48	0.77
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.14	0.77
23:CW:4:C:OP2	23:CW:4:C:H2'	1.84	0.77
26:D1:45:ASN:ND2	26:D1:47:GLN:HE21	1.82	0.77
35:DA:1540:U:H3'	35:DA:1541:G:H3'	1.64	0.77
39:DE:132:HIS:HA	39:DE:135:HIS:CE1	2.20	0.77
22:AY:26:G:H2'	22:AY:27:C:H6	1.48	0.77
35:BA:893:C:H2'	35:BA:894:C:C6	2.20	0.77
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.49	0.77
46:BO:105:GLU:HA	46:BO:108:GLU:OE2	1.83	0.77
3:CC:108:ASN:ND2	3:CC:144:SER:HB2	1.98	0.77
6:CF:69:GLU:CD	6:CF:69:GLU:H	1.93	0.77
9:CI:16:ARG:O	9:CI:63:ILE:HG23	1.83	0.77
35:DA:613:G:H5'	35:DA:613:G:C8	2.19	0.77
51:DT:129:ARG:NH1	51:DT:131:ALA:HB2	1.99	0.77
52:DU:92:ARG:O	52:DU:94:ASN:N	2.18	0.77
8:AH:4:ASP:HB2	8:AH:89:PRO:HG3	1.67	0.77
25:B0:5:LYS:NZ	25:B0:5:LYS:HB3	1.98	0.77
29:B4:6:HIS:NE2	41:BG:67:LYS:HE2	2.00	0.77
3:CC:173:VAL:O	3:CC:175:LEU:HD12	1.82	0.77
4:CD:152:SER:O	4:CD:155:LEU:HG	1.85	0.77
7:CG:15:ASP:HB3	7:CG:19:GLY:N	1.99	0.77
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.13	0.77
10:CJ:51:ARG:HG3	10:CJ:60:ARG:HA	1.67	0.77
12:CL:75:HIS:CD2	12:CL:77:LEU:HB2	2.18	0.77
13:CM:81:LEU:HD22	13:CM:88:ARG:HD3	1.65	0.77
22:CY:58:C:C6	57:DZ:182:LYS:NZ	2.53	0.77
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.64	0.77
35:DA:1681:G:O2'	35:DA:1762:A:H2'	1.84	0.77
39:DE:2:LYS:HD3	39:DE:95:ILE:HG22	1.64	0.77
42:DH:7:LEU:HD22	42:DH:65:HIS:CE1	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.67	0.77
22:AV:25:A:O2'	22:AV:26:G:H5'	1.84	0.77
35:BA:1846:G:H8	35:BA:1846:G:H5'	1.49	0.77
35:BA:2562:U:H1'	46:BO:23:ARG:NH1	1.99	0.77
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.49	0.77
23:CW:10:G:O6	23:CW:27:C:H2'	1.85	0.77
22:CY:56:U:O5'	22:CY:56:U:H6	1.68	0.77
35:DA:1281:G:H8	35:DA:1281:G:H5'	1.50	0.77
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.66	0.77
43:DI:127:VAL:HG13	43:DI:139:GLN:HA	1.66	0.77
2:AB:71:VAL:HB	2:AB:164:VAL:HG12	1.66	0.77
26:B1:86:SER:O	26:B1:90:ILE:HG12	1.85	0.77
35:BA:613:G:H5'	35:BA:613:G:C8	2.18	0.77
35:BA:1681:G:O2'	35:BA:1762:A:H2'	1.84	0.77
1:CA:1363(A):A:C4'	1:CA:1364:U:H5"	2.13	0.77
8:CH:51:VAL:CG1	8:CH:60:ARG:HB2	2.14	0.77
23:CW:35:U:H3'	23:CW:35:U:OP2	1.84	0.77
35:DA:1314:C:H5'	35:DA:1314:C:H6	1.49	0.77
35:DA:1598:C:H5'	55:DX:36:LYS:HB2	1.64	0.77
40:DF:101:LEU:HD12	40:DF:102:PRO:HD2	1.64	0.77
1:AA:192:U:H2'	1:AA:193:C:C6	2.19	0.77
1:AA:382:A:H2'	1:AA:383:A:C8	2.20	0.77
1:AA:458:C:H2'	1:AA:460:G:H8	1.49	0.77
30:B5:48:GLU:O	30:B5:49:CYS:HB3	1.83	0.77
35:BA:672:C:H2'	35:BA:673:C:H5'	1.65	0.77
35:BA:2657:A:H2'	35:BA:2658:C:H5'	1.67	0.77
4:CD:162:LEU:O	4:CD:165:MET:HB2	1.85	0.77
8:CH:12:ARG:HH11	8:CH:26:VAL:HA	1.49	0.77
10:CJ:40:LEU:HB2	10:CJ:69:ASN:HB2	1.67	0.77
41:DG:5:VAL:HG12	41:DG:6:ALA:N	1.97	0.77
51:DT:91:ARG:HA	51:DT:117:ASP:H	1.49	0.77
52:DU:90:VAL:O	52:DU:92:ARG:N	2.18	0.77
57:DZ:42:VAL:HG13	57:DZ:43:GLU:N	1.99	0.77
1:AA:1422:G:H4'	46:BO:49:ARG:NH1	2.00	0.76
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.20	0.76
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	1.85	0.76
12:AL:25:PRO:O	12:AL:27:LEU:HD22	1.84	0.76
35:BA:1528:A:N1	35:BA:1542:A:H2	1.82	0.76
51:BT:80:SER:CB	51:BT:81:PRO:HD3	2.15	0.76
12:CL:54:LYS:H	12:CL:54:LYS:HD2	1.48	0.76
22:CY:63:C:O5'	57:DZ:186:GLU:CG	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:178:PRO:HB2	40:DF:201:VAL:HG11	1.65	0.76
43:DI:92:VAL:HB	43:DI:120:ILE:HB	1.66	0.76
43:DI:100:ALA:HA	43:DI:103:ARG:HD2	1.65	0.76
46:DO:107:ARG:HH12	51:DT:35:LYS:HD2	1.49	0.76
56:DY:28:LYS:NZ	56:DY:28:LYS:N	2.32	0.76
1:AA:438:G:H2'	1:AA:494:U:O4	1.86	0.76
3:AC:173:VAL:O	3:AC:175:LEU:HD12	1.84	0.76
4:AD:152:SER:O	4:AD:155:LEU:HG	1.84	0.76
6:AF:62:TRP:C	6:AF:63:TYR:HD1	1.94	0.76
8:AH:51:VAL:CG1	8:AH:60:ARG:HB2	2.15	0.76
22:AY:1:G:O2'	22:AY:2:G:H5'	1.84	0.76
53:BV:38:LEU:C	53:BV:39:LEU:HD13	2.09	0.76
1:CA:345:C:H5'	1:CA:346:G:C5	2.19	0.76
1:CA:1400:C:N4	22:CV:36:AG9:C5	2.49	0.76
18:CR:58:LEU:H	18:CR:58:LEU:HD12	1.49	0.76
35:DA:1887:C:C2'	35:DA:1888:G:H5"	2.14	0.76
43:DI:74:ASN:H	43:DI:74:ASN:ND2	1.75	0.76
43:DI:123:LEU:HA	43:DI:142:VAL:HG11	1.67	0.76
49:DR:2:ARG:O	49:DR:2:ARG:HD2	1.85	0.76
8:AH:12:ARG:HH11	8:AH:26:VAL:HA	1.49	0.76
22:AY:10:G:H22	22:AY:28:G:H1'	1.51	0.76
30:B5:3:LYS:HB3	35:BA:747:U:C5	2.20	0.76
35:BA:2875:C:H4'	51:BT:5:ALA:HB2	1.66	0.76
42:BH:66:GLY:HA2	42:BH:69:ARG:HD3	1.65	0.76
52:BU:112:ARG:NH1	53:BV:46:VAL:HG11	2.00	0.76
12:CL:27:LEU:HG	12:CL:62:SER:OG	1.85	0.76
22:CY:17:C:H5"	22:CY:18:U:C5	2.21	0.76
30:D5:3:LYS:HB3	35:DA:747:U:C5	2.20	0.76
35:DA:587:C:C5	47:DP:33:ARG:HD3	2.20	0.76
49:DR:10:LEU:HB3	49:DR:17:ARG:NE	2.01	0.76
51:DT:60:THR:HG22	51:DT:77:PRO:HA	1.68	0.76
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.01	0.76
18:AR:70:ILE:O	18:AR:74:ARG:HG3	1.85	0.76
43:BI:84:GLY:O	43:BI:85:GLU:HB2	1.86	0.76
43:BI:134:PRO:O	43:BI:135:GLU:HG2	1.85	0.76
52:BU:90:VAL:O	52:BU:92:ARG:N	2.18	0.76
1:CA:458:C:H2'	1:CA:460:G:H8	1.48	0.76
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.50	0.76
47:DP:126:VAL:HA	47:DP:145:PRO:HB2	1.68	0.76
1:AA:345:C:H5'	1:AA:346:G:C5	2.19	0.76
1:AA:1493:A:O2'	24:AX:19:A:H1'	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:11:C:H2'	23:AW:12:U:N1	2.00	0.76
26:B1:80:LEU:HB2	26:B1:82:LEU:HD21	1.66	0.76
35:BA:284:U:H2'	35:BA:285:C:H6	1.50	0.76
51:BT:129:ARG:NH1	51:BT:131:ALA:HB2	2.00	0.76
1:CA:959:A:H2'	1:CA:960:U:H4'	1.67	0.76
5:CE:68:GLU:O	5:CE:68:GLU:HG3	1.84	0.76
18:CR:53:ARG:NH1	18:CR:60:ALA:HA	2.00	0.76
35:DA:1190:G:H5'	47:DP:35:HIS:H	1.49	0.76
39:DE:69:LYS:HZ1	39:DE:89:ASP:HA	1.48	0.76
48:DQ:134:ARG:CZ	57:DZ:122:ARG:HE	1.98	0.76
57:DZ:73:GLN:HB3	57:DZ:87:ASP:OD1	1.85	0.76
1:AA:1152:A:H5'	10:AJ:70:ARG:NH2	1.99	0.76
5:AE:150:ARG:HA	5:AE:153:LYS:HE2	1.66	0.76
46:BO:47:ILE:HG12	46:BO:48:PRO:HD2	1.66	0.76
54:BW:9:TYR:H	54:BW:102:HIS:CD2	2.04	0.76
1:CA:1129:C:H41	1:CA:1135:U:H3	1.34	0.76
2:CB:14:GLY:O	2:CB:15:VAL:HG13	1.86	0.76
8:CH:1:MET:H2	8:CH:1:MET:HE2	1.49	0.76
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.67	0.76
22:CV:27:C:H2'	22:CV:28:G:O4'	1.84	0.76
35:DA:1639:U:O2'	35:DA:1640:C:H5"	1.85	0.76
36:DB:54:G:H21	41:DG:29:TRP:HE1	1.34	0.76
40:DF:24:LEU:O	40:DF:26:ALA:N	2.19	0.76
10:AJ:40:LEU:HB2	10:AJ:69:ASN:HB2	1.67	0.76
22:AV:25:A:H2'	22:AV:26:G:H8	1.47	0.76
23:AW:70:G:C2'	23:AW:71:G:C8	2.59	0.76
31:B6:9:LEU:HD13	31:B6:9:LEU:O	1.86	0.76
31:B6:37:ARG:HH21	35:BA:2286:A:N6	1.83	0.76
35:BA:1318:C:H3'	35:BA:1319:G:H5"	1.66	0.76
35:BA:2189:U:H2'	35:BA:2190:G:H5"	1.67	0.76
38:BD:34:VAL:C	38:BD:36:PRO:HD2	2.11	0.76
1:CA:1060:C:C5	3:CC:2:GLY:HA2	2.21	0.76
8:CH:20:TYR:CE2	8:CH:75:ARG:HD2	2.18	0.76
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.66	0.76
23:CW:27:C:H3'	23:CW:28:G:H8	1.49	0.76
30:D5:48:GLU:O	30:D5:49:CYS:HB3	1.86	0.76
30:D5:53:ALA:HB3	30:D5:55:ARG:NH2	2.01	0.76
35:DA:2807:G:H2'	35:DA:2808:U:H5"	1.67	0.76
52:DU:101:ARG:HB3	52:DU:102:GLU:OE2	1.86	0.76
54:DW:4:LYS:HG2	54:DW:5:ALA:H	1.50	0.76
1:AA:959:A:H2'	1:AA:960:U:H4'	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.01	0.76
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.16	0.76
23:AW:4:C:O2'	23:AW:5:C:C5	2.37	0.76
22:AY:49:G:C3'	22:AY:50:C:H5'	2.14	0.76
22:AY:57:U:O5'	57:BZ:183:LEU:N	2.19	0.76
35:BA:155:U:H2'	35:BA:156:U:H5"	1.65	0.76
35:BA:2807:G:H2'	35:BA:2808:U:H5"	1.68	0.76
39:BE:2:LYS:HD3	39:BE:95:ILE:HG22	1.67	0.76
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.21	0.76
2:CB:71:VAL:HB	2:CB:164:VAL:HG12	1.66	0.76
3:CC:71:ALA:HA	3:CC:106:VAL:H	1.51	0.76
25:D0:84:LEU:H	25:D0:84:LEU:HD12	1.51	0.76
35:DA:2068:U:N3	35:DA:2430:A:H2	1.80	0.76
45:DN:15:LEU:HD13	45:DN:16:ILE:N	2.00	0.76
47:DP:61:ARG:HD2	47:DP:61:ARG:H	1.50	0.76
57:DZ:39:VAL:HG21	57:DZ:44:PHE:CD2	2.20	0.76
1:AA:161:A:H2'	1:AA:162:A:C8	2.21	0.76
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.21	0.76
1:AA:1314:C:H5	19:AS:6:LYS:HE2	1.48	0.76
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.68	0.76
18:AR:53:ARG:NH1	18:AR:60:ALA:HA	2.00	0.76
23:AW:42:C:H2'	23:AW:43:G:O4'	1.86	0.76
38:BD:24:ILE:HG12	38:BD:25:THR:N	2.00	0.76
47:BP:92:GLU:HG3	47:BP:93:GLY:H	1.51	0.76
51:BT:28:VAL:HG22	51:BT:46:GLU:HA	1.68	0.76
51:BT:46:GLU:O	51:BT:65:LYS:HD2	1.84	0.76
56:BY:79:CYS:SG	56:BY:80:GLY:N	2.47	0.76
31:D6:10:LEU:HD23	31:D6:10:LEU:H	1.49	0.76
33:D8:32:LEU:HD12	35:DA:2391:G:OP1	1.85	0.76
35:DA:1037:G:H1	35:DA:1118:C:H42	1.34	0.76
35:DA:1899:G:O2'	35:DA:1900:A:H5"	1.86	0.76
40:DF:9:ILE:HG22	40:DF:11:VAL:O	1.86	0.76
51:DT:91:ARG:HB3	51:DT:116:ALA:HA	1.68	0.76
1:AA:1432:G:OP1	51:BT:107:ASP:HB2	1.85	0.76
11:AK:22:HIS:HB3	11:AK:29:ILE:HG23	1.68	0.76
22:AY:6:C:H2'	22:AY:7:U:C6	2.20	0.76
25:B0:84:LEU:H	25:B0:84:LEU:HD12	1.49	0.76
33:B8:32:LEU:HD12	35:BA:2391:G:OP1	1.86	0.76
38:BD:176:ARG:HH11	38:BD:176:ARG:HG2	1.50	0.76
43:BI:118:LYS:HG2	43:BI:119:PRO:HD2	1.67	0.76
1:CA:1040:U:H2'	1:CA:1041:A:H8	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:125:TYR:CE1	9:CI:127:LYS:HB2	2.20	0.76
38:DD:10:THR:HG23	38:DD:13:ARG:CB	2.16	0.76
42:DH:54:ARG:HD2	42:DH:56:SER:O	1.85	0.76
1:AA:434:U:H2'	1:AA:435:C:C6	2.21	0.75
2:AB:141:GLU:O	2:AB:145:LEU:HB2	1.85	0.75
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.49	0.75
4:AD:162:LEU:O	4:AD:165:MET:HB2	1.86	0.75
23:AW:13:U:C6	23:AW:13:U:C3'	2.66	0.75
22:AY:24:A:H62	22:AY:48:G:N2	1.83	0.75
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.52	0.75
38:BD:210:GLY:O	38:BD:212:SER:N	2.18	0.75
53:BV:46:VAL:HG22	53:BV:47:VAL:H	1.49	0.75
1:CA:427:U:H3'	1:CA:428:G:H5"	1.68	0.75
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.01	0.75
23:CW:25:A:C2'	23:CW:26:G:C8	2.66	0.75
22:CY:19:G:N1	22:CY:57:U:O2	2.18	0.75
29:D4:25:TYR:HE1	41:DG:5:VAL:HG22	1.51	0.75
35:DA:2657:A:H2'	35:DA:2658:C:H5'	1.67	0.75
35:DA:2833:G:H3'	35:DA:2834:G:C5'	2.15	0.75
39:DE:77:ILE:HG22	39:DE:78:LEU:N	2.01	0.75
1:AA:950:U:H2'	1:AA:951:G:H8	1.51	0.75
23:AW:33:G:N3	23:AW:34:C:H1'	2.00	0.75
22:AY:30:U:H2'	22:AY:31:C:H6	1.50	0.75
27:B2:16:LEU:H	27:B2:67:LYS:NZ	1.84	0.75
35:BA:744:G:OP1	39:BE:132:HIS:HB3	1.86	0.75
49:BR:2:ARG:O	49:BR:2:ARG:HD2	1.86	0.75
53:BV:51:VAL:HG12	53:BV:52:VAL:H	1.48	0.75
11:CK:15:ALA:HB1	11:CK:78:GLN:HG3	1.68	0.75
20:CT:82:SER:O	20:CT:86:ARG:HB2	1.87	0.75
22:CV:25:A:O2'	22:CV:26:G:H5'	1.86	0.75
23:CW:34:C:H2'	23:CW:34:C:O2	1.84	0.75
22:CY:19:G:C6	22:CY:59:G:N1	2.54	0.75
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	2.15	0.75
50:DS:35:ILE:HD11	50:DS:99:LYS:CE	2.16	0.75
1:AA:1216:G:H5"	14:AN:5:ALA:HB2	1.67	0.75
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.66	0.75
22:AY:17:C:H5"	22:AY:18:U:C6	2.21	0.75
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.85	0.75
35:BA:2833:G:H3'	35:BA:2834:G:C5'	2.16	0.75
40:BF:9:ILE:HG22	40:BF:11:VAL:O	1.87	0.75
52:BU:92:ARG:O	52:BU:94:ASN:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:95:GLY:HA2	13:CM:110:ARG:NH2	2.01	0.75
22:CY:55:G:H5"	48:DQ:56:ARG:HH22	1.50	0.75
39:DE:36:ARG:HH21	39:DE:88:GLY:CA	1.92	0.75
42:DH:30:LYS:HB2	42:DH:79:VAL:HA	1.67	0.75
4:AD:127:THR:HA	4:AD:132:ARG:HA	1.68	0.75
13:AM:88:ARG:HG2	13:AM:88:ARG:HH11	1.51	0.75
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.01	0.75
35:BA:365:C:H5'	35:BA:365:C:H6	1.50	0.75
37:BC:40:GLU:HB2	37:BC:179:ALA:HB2	1.68	0.75
52:BU:101:ARG:HB3	52:BU:102:GLU:OE2	1.86	0.75
12:CL:47:LYS:HZ3	12:CL:48:PRO:HD3	1.52	0.75
20:CT:50:GLU:HA	20:CT:100:ILE:CG2	2.16	0.75
23:CW:13:U:H6	23:CW:13:U:C3'	1.99	0.75
22:CY:19:G:H8	57:DZ:187:ALA:N	1.83	0.75
22:CY:20:G:N1	22:CY:58:C:N4	2.35	0.75
35:DA:1485:G:H1'	35:DA:1505:C:H42	1.52	0.75
37:DC:40:GLU:HB2	37:DC:179:ALA:HB2	1.69	0.75
1:AA:405:U:H3'	1:AA:406:G:H5'	1.69	0.75
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.67	0.75
11:AK:15:ALA:HB1	11:AK:78:GLN:HG3	1.69	0.75
22:AV:24:A:C2	22:AV:25:A:C5	2.74	0.75
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.68	0.75
42:BH:7:LEU:HD22	42:BH:65:HIS:CE1	2.21	0.75
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	2.02	0.75
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.02	0.75
55:DX:12:VAL:HG21	55:DX:17:ALA:HB1	1.68	0.75
57:DZ:165:VAL:HG12	57:DZ:166:SER:H	1.49	0.75
1:AA:1256:A:N6	1:AA:1278:U:H1'	1.99	0.75
4:AD:129:ASN:HD21	4:AD:145:GLU:N	1.84	0.75
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.69	0.75
13:AM:95:GLY:HA2	13:AM:110:ARG:NH2	2.00	0.75
35:BA:1190:G:H5'	47:BP:35:HIS:H	1.52	0.75
35:BA:1899:G:O2'	35:BA:1900:A:H5"	1.87	0.75
38:BD:35:LYS:N	38:BD:36:PRO:HD2	1.99	0.75
39:BE:24:THR:HG21	39:BE:188:VAL:HG12	1.68	0.75
47:BP:98:GLU:O	47:BP:101:VAL:HG22	1.87	0.75
3:CC:181:ASN:ND2	3:CC:205:GLY:H	1.85	0.75
12:CL:25:PRO:O	12:CL:27:LEU:HD22	1.87	0.75
37:DC:7:ARG:NH2	37:DC:219:MET:HB3	2.02	0.75
41:DG:131:TYR:O	41:DG:159:VAL:HG12	1.86	0.75
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:38:THR:HG23	12:AL:39:VAL:H	1.52	0.75
22:AV:31:C:H2'	22:AV:32:G:H8	1.52	0.75
22:AY:70:G:H2'	22:AY:71:G:C8	2.21	0.75
37:BC:11:LEU:HD22	37:BC:33:LEU:HA	1.68	0.75
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.68	0.75
41:BG:6:ALA:HB3	41:BG:104:GLU:OE2	1.86	0.75
1:CA:542:G:H5'	4:CD:41:GLY:HA3	1.69	0.75
35:DA:271(D):G:H1	35:DA:271(T):C:H42	1.35	0.75
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.68	0.75
46:DO:47:ILE:CG1	46:DO:48:PRO:HD2	2.17	0.75
49:DR:2:ARG:HD3	49:DR:5:LYS:HE2	1.66	0.75
1:AA:1129:C:H41	1:AA:1135:U:H3	1.35	0.75
1:AA:1502:A:H5'	1:AA:1504:G:N7	2.02	0.75
5:AE:68:GLU:O	5:AE:68:GLU:HG3	1.85	0.75
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.66	0.75
12:AL:75:HIS:CD2	12:AL:77:LEU:HB2	2.20	0.75
35:BA:544:G:H21	35:BA:547:A:H2'	1.50	0.75
42:BH:9:ILE:HG23	42:BH:9:ILE:O	1.85	0.75
43:BI:92:VAL:HG13	43:BI:97:ILE:CG1	2.16	0.75
53:BV:24:LYS:HE2	53:BV:90:PRO:HB2	1.68	0.75
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.02	0.75
22:CV:70:G:H2'	22:CV:71:G:C8	2.21	0.75
23:CW:26:G:H2'	23:CW:27:C:C6	2.21	0.75
38:DD:35:LYS:HB3	38:DD:35:LYS:HZ2	1.52	0.75
40:DF:8:GLN:CB	40:DF:126:VAL:HA	2.17	0.75
52:DU:79:PHE:CE1	52:DU:83:LEU:HD21	2.20	0.75
52:DU:112:ARG:HH12	53:DV:46:VAL:HG11	1.51	0.75
1:AA:1434:A:H2'	1:AA:1435:G:O4'	1.86	0.75
2:AB:168:THR:HG23	2:AB:192:SER:OG	1.86	0.75
6:AF:69:GLU:CD	6:AF:69:GLU:H	1.94	0.75
12:AL:27:LEU:HG	12:AL:62:SER:OG	1.87	0.75
47:BP:48:PRO:O	47:BP:50:ARG:N	2.20	0.75
47:BP:126:VAL:HA	47:BP:145:PRO:HB2	1.67	0.75
57:BZ:171:ILE:HG13	57:BZ:172:ALA:N	1.99	0.75
1:CA:458:C:H2'	1:CA:460:G:C8	2.21	0.75
4:CD:127:THR:HA	4:CD:132:ARG:HA	1.69	0.75
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	1.87	0.75
12:CL:89:ARG:HH12	12:CL:97:ARG:HG2	1.52	0.75
23:CW:52:C:H2'	23:CW:53:U:C6	2.22	0.75
26:D1:5:CYS:SG	26:D1:62:VAL:HG23	2.27	0.75
35:DA:893:C:H2'	35:DA:894:C:C6	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1434:A:H61	35:DA:1558:A:H62	1.34	0.75
46:DO:77:ILE:HD13	51:DT:74:ARG:HD3	1.69	0.75
53:DV:39:LEU:HD12	53:DV:50:PRO:O	1.87	0.75
1:AA:475:G:H2'	1:AA:476:G:H8	1.51	0.74
27:B2:63:VAL:HA	27:B2:66:GLU:HG3	1.67	0.74
35:BA:276:A:H5'	35:BA:277:C:H6	1.52	0.74
49:BR:7:GLY:O	49:BR:8:ARG:NE	2.20	0.74
31:D6:37:ARG:HH21	35:DA:2286:A:N6	1.83	0.74
35:DA:2189:U:H2'	35:DA:2190:G:H5"	1.67	0.74
42:DH:9:ILE:O	42:DH:9:ILE:HG23	1.87	0.74
47:DP:7:ARG:CA	47:DP:7:ARG:HH11	2.00	0.74
53:DV:38:LEU:C	53:DV:39:LEU:HD13	2.11	0.74
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.02	0.74
3:AC:181:ASN:ND2	3:AC:205:GLY:H	1.85	0.74
23:AW:45:U:H3'	23:AW:46:U:H6	1.49	0.74
26:B1:41:ARG:HD3	26:B1:43:TYR:OH	1.87	0.74
41:BG:56:ALA:HB2	41:BG:153:ARG:NH1	2.01	0.74
43:BI:123:LEU:HA	43:BI:142:VAL:HG11	1.67	0.74
46:BO:77:ILE:HD13	51:BT:74:ARG:HD3	1.68	0.74
3:CC:153:VAL:HG22	3:CC:198:VAL:HG22	1.69	0.74
19:CS:51:VAL:O	19:CS:58:VAL:HG22	1.86	0.74
35:DA:284:U:H2'	35:DA:285:C:H6	1.50	0.74
42:DH:83:TYR:HA	42:DH:135:GLY:H	1.52	0.74
54:DW:92:ARG:HH11	54:DW:92:ARG:CB	1.99	0.74
9:AI:53:VAL:HG11	9:AI:85:LEU:HD22	1.69	0.74
35:BA:1485:G:H1'	35:BA:1505:C:H42	1.52	0.74
38:BD:66:ASP:OD2	38:BD:69:ARG:HG2	1.87	0.74
50:BS:70:GLY:C	50:BS:101:LEU:HD23	2.13	0.74
53:BV:18:LEU:HD13	53:BV:19:LYS:N	2.03	0.74
1:CA:339:C:H2'	1:CA:340:U:H6	1.53	0.74
1:CA:382:A:H2'	1:CA:383:A:C8	2.22	0.74
1:CA:939:G:H5"	7:CG:102:ARG:NH2	2.02	0.74
3:CC:81:GLY:O	3:CC:85:ARG:HB2	1.87	0.74
35:DA:2317:C:H2'	35:DA:2318:G:H5'	1.67	0.74
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.69	0.74
45:DN:47:ALA:CB	45:DN:112:LEU:HD11	2.17	0.74
50:DS:70:GLY:C	50:DS:101:LEU:HD23	2.13	0.74
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.53	0.74
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.68	0.74
9:AI:99:LEU:HB3	9:AI:101:PHE:HD1	1.52	0.74
45:BN:39:ARG:HD3	45:BN:41:ASP:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:161:A:H2'	1:CA:162:A:C8	2.21	0.74
1:CA:1051:C:H2'	1:CA:1052:U:C6	2.22	0.74
1:CA:1452:C:H4'	1:CA:1456:G:H5"	1.68	0.74
5:CE:80:ILE:HG22	8:CH:104:ARG:NH2	2.02	0.74
11:CK:102:GLY:C	11:CK:103:LEU:HD22	2.12	0.74
23:CW:13:U:C6	23:CW:13:U:C3'	2.66	0.74
22:CY:76:C:H2'	22:CY:76:C:O2	1.85	0.74
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.03	0.74
38:DD:21:PHE:HB3	38:DD:24:ILE:HD12	1.68	0.74
51:DT:28:VAL:HG22	51:DT:46:GLU:HA	1.70	0.74
57:DZ:101:PRO:O	57:DZ:102:LEU:HD23	1.87	0.74
1:AA:551:U:H2'	1:AA:552:U:C6	2.22	0.74
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.22	0.74
2:AB:95:GLN:NE2	2:AB:147:LYS:HE2	2.03	0.74
3:AC:77:ILE:HG23	3:AC:84:ILE:HG21	1.68	0.74
3:AC:81:GLY:O	3:AC:85:ARG:HB2	1.86	0.74
23:AW:36:C:H2'	23:AW:36:C:O2	1.87	0.74
23:AW:39:A:H3'	23:AW:40:A:O3'	1.88	0.74
22:AY:76:C:H2'	22:AY:76:C:O2	1.85	0.74
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.22	0.74
40:BF:8:GLN:CB	40:BF:126:VAL:HA	2.16	0.74
45:BN:133:GLN:HG2	45:BN:134:ARG:N	1.96	0.74
46:BO:47:ILE:CG1	46:BO:48:PRO:HD2	2.17	0.74
46:BO:107:ARG:HH12	51:BT:35:LYS:HD2	1.52	0.74
1:CA:339:C:H2'	1:CA:340:U:C6	2.23	0.74
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.51	0.74
35:DA:365:C:H5'	35:DA:365:C:H6	1.52	0.74
41:DG:71:THR:HG22	41:DG:89:GLY:O	1.88	0.74
1:AA:939:G:H5"	7:AG:102:ARG:NH2	2.02	0.74
1:AA:1293:G:HO2'	1:AA:1294:G:H8	1.33	0.74
7:AG:84:ASN:HD21	23:AW:36:C:H42	1.36	0.74
20:AT:82:SER:O	20:AT:86:ARG:HB2	1.86	0.74
22:AV:15:G:H2'	22:AV:16:U:C6	2.23	0.74
23:AW:20:G:OP2	23:AW:21:U:H5	1.70	0.74
22:AY:71:G:C6	22:AY:72:C:C5	2.75	0.74
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.69	0.74
35:BA:284:U:H2'	35:BA:285:C:C6	2.22	0.74
35:BA:296:C:O2'	35:BA:297:C:H5'	1.88	0.74
35:BA:1037:G:H1	35:BA:1118:C:H42	1.34	0.74
47:BP:97:PRO:O	47:BP:98:GLU:HB3	1.87	0.74
2:CB:76:GLN:O	2:CB:208:ILE:HG12	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.02	0.74
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.03	0.74
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	1.88	0.74
22:CV:1:G:C1'	25:D0:5:LYS:HZ1	1.99	0.74
22:CY:60:A:H4'	22:CY:61:A:OP1	1.87	0.74
35:DA:672:C:O2'	35:DA:673:C:H5"	1.87	0.74
43:DI:88:ILE:HG22	43:DI:89:TYR:N	2.02	0.74
47:DP:16:ARG:HB2	47:DP:16:ARG:NH1	2.01	0.74
1:AA:458:C:H2'	1:AA:460:G:C8	2.23	0.74
1:AA:673:G:H2'	1:AA:674:G:C8	2.22	0.74
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.02	0.74
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.52	0.74
13:AM:6:GLY:C	13:AM:8:GLU:H	1.96	0.74
17:AQ:12:SER:HB3	17:AQ:20:THR:HB	1.69	0.74
23:AW:16:U:O2	23:AW:62:U:H4'	1.87	0.74
22:AY:57:U:C5	57:BZ:182:LYS:CA	2.69	0.74
35:BA:1014:U:C2'	35:BA:1015:G:H5"	2.18	0.74
38:BD:181:GLU:HA	38:BD:272:ALA:HB3	1.70	0.74
47:BP:64:LYS:O	47:BP:66:GLY:N	2.18	0.74
8:CH:122:ARG:HB2	8:CH:122:ARG:HH11	1.50	0.74
22:CY:57:U:C6	57:DZ:182:LYS:C	2.65	0.74
27:D2:45:SER:H	27:D2:46:GLN:NE2	1.86	0.74
35:DA:1014:U:C2'	35:DA:1015:G:H5"	2.18	0.74
35:DA:1798:U:C5'	38:DD:259:THR:HG22	2.17	0.74
35:DA:1846:G:H8	35:DA:1846:G:H5'	1.52	0.74
46:DO:111:PHE:O	46:DO:115:VAL:HG23	1.88	0.74
3:AC:71:ALA:HA	3:AC:106:VAL:H	1.52	0.74
35:BA:1887:C:C2'	35:BA:1888:G:H5"	2.16	0.74
35:BA:2103:C:C3'	35:BA:2104:G:H5"	2.17	0.74
43:BI:81:VAL:HG13	43:BI:143:SER:N	2.03	0.74
48:BQ:60:ARG:HA	57:BZ:179:ASP:CA	2.15	0.74
52:BU:90:VAL:HG22	53:BV:39:LEU:HG	1.70	0.74
1:CA:52:G:O2'	1:CA:53:A:H5'	1.88	0.74
4:CD:128:VAL:O	4:CD:130:GLY:N	2.21	0.74
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.51	0.74
12:CL:58:VAL:O	12:CL:65:GLU:HA	1.88	0.74
22:CY:26:G:H2'	22:CY:27:C:H6	1.50	0.74
41:DG:134:GLY:C	41:DG:135:LEU:HD12	2.13	0.74
43:DI:58:LEU:O	43:DI:58:LEU:HD23	1.88	0.74
47:DP:64:LYS:O	47:DP:66:GLY:N	2.18	0.74
1:AA:985:C:H2'	1:AA:986:A:C8	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:47:THR:O	2:AB:51:LEU:HG	1.86	0.74
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.70	0.74
35:BA:1040:C:H42	35:BA:1115:G:H1	1.33	0.74
35:BA:2876:G:C4'	51:BT:3:ARG:HE	1.96	0.74
38:BD:24:ILE:O	38:BD:25:THR:O	2.06	0.74
39:BE:62:PRO:C	39:BE:64:LYS:H	1.96	0.74
40:BF:24:LEU:O	40:BF:26:ALA:N	2.20	0.74
42:BH:30:LYS:HB2	42:BH:79:VAL:HA	1.70	0.74
57:BZ:141:VAL:HA	57:BZ:144:LEU:HD21	1.69	0.74
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.22	0.74
2:CB:55:PHE:HA	2:CB:58:ILE:HB	1.69	0.74
5:CE:150:ARG:O	5:CE:153:LYS:HG2	1.88	0.74
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.13	0.74
13:CM:88:ARG:HH11	13:CM:88:ARG:HG2	1.52	0.74
38:DD:24:ILE:O	38:DD:25:THR:O	2.05	0.74
1:AA:1060:C:C5	3:AC:2:GLY:HA2	2.23	0.74
10:AJ:51:ARG:HG3	10:AJ:60:ARG:HA	1.68	0.74
12:AL:38:THR:HG23	12:AL:39:VAL:N	2.02	0.74
35:BA:626:U:C2	47:BP:105:LEU:HG	2.23	0.74
35:BA:1022:G:N2	35:BA:1142(A):A:H2	1.82	0.74
57:BZ:22:GLY:O	57:BZ:41:LEU:HB2	1.87	0.74
12:CL:85:ILE:HD11	12:CL:98:TYR:HB2	1.69	0.74
35:DA:1019:U:H3	35:DA:1142(A):A:H62	1.36	0.74
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.16	0.74
35:DA:2103:C:C3'	35:DA:2104:G:H5"	2.18	0.74
42:DH:124:GLU:HB2	42:DH:132:ARG:HG2	1.69	0.74
2:AB:14:GLY:O	2:AB:15:VAL:HG13	1.88	0.73
3:AC:101:LEU:HD23	3:AC:102:ASN:N	2.03	0.73
5:AE:71:LEU:O	5:AE:72:GLN:HG3	1.87	0.73
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.02	0.73
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.70	0.73
23:AW:42:C:C2'	23:AW:43:G:H5'	2.18	0.73
35:BA:2712:U:O2'	35:BA:2713:A:H5'	1.88	0.73
40:BF:66:PRO:O	40:BF:67:GLN:HB3	1.87	0.73
9:CI:7:THR:H	9:CI:83:ARG:HD2	1.53	0.73
9:CI:114:TYR:H	9:CI:114:TYR:HD1	1.36	0.73
12:CL:27:LEU:HG	12:CL:62:SER:CB	2.18	0.73
35:DA:276:A:H5'	35:DA:277:C:H6	1.52	0.73
35:DA:284:U:H2'	35:DA:285:C:C6	2.23	0.73
57:DZ:166:SER:H	57:DZ:167:PRO:HA	1.52	0.73
9:AI:99:LEU:HB3	9:AI:101:PHE:CD1	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:30:U:C2'	23:AW:31:C:C6	2.61	0.73
22:AY:17:C:H5"	22:AY:18:U:C5	2.23	0.73
35:BA:197:A:H5'	35:BA:197:A:C8	2.23	0.73
35:BA:330:A:C2	35:BA:1210:A:H2'	2.22	0.73
35:BA:673:C:H5'	35:BA:673:C:H6	1.53	0.73
35:BA:1697:G:H3'	35:BA:1698:A:H5"	1.70	0.73
42:BH:68:THR:C	42:BH:70:THR:H	1.95	0.73
51:BT:70:VAL:HG12	51:BT:71:GLY:N	2.04	0.73
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.03	0.73
3:CC:101:LEU:HD23	3:CC:102:ASN:N	2.03	0.73
7:CG:31:MET:HE3	7:CG:34:GLY:HA2	1.69	0.73
18:CR:53:ARG:HD2	18:CR:59:SER:O	1.87	0.73
22:CY:56:U:O5'	57:DZ:180:VAL:O	2.05	0.73
35:DA:744:G:OP1	39:DE:132:HIS:HB3	1.89	0.73
53:DV:18:LEU:HD13	53:DV:19:LYS:N	2.03	0.73
56:DY:28:LYS:HZ1	56:DY:28:LYS:N	1.86	0.73
57:DZ:132:ASN:O	57:DZ:133:ILE:HD13	1.88	0.73
3:AC:153:VAL:HG22	3:AC:198:VAL:HG22	1.70	0.73
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.04	0.73
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.68	0.73
31:B6:5:VAL:HG22	31:B6:6:ARG:H	1.51	0.73
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.16	0.73
41:BG:32:PRO:HB3	41:BG:163:ALA:HB2	1.70	0.73
43:BI:88:ILE:HG22	43:BI:89:TYR:N	2.04	0.73
43:BI:132:PRO:HG2	43:BI:133:HIS:ND1	2.02	0.73
47:BP:89:ALA:HA	47:BP:121:LYS:HD3	1.68	0.73
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.70	0.73
35:DA:673:C:H5'	35:DA:673:C:H6	1.53	0.73
35:DA:2876:G:C4'	51:DT:3:ARG:HE	1.97	0.73
37:DC:34:ALA:HB1	37:DC:40:GLU:HB2	1.70	0.73
47:DP:7:ARG:O	47:DP:10:PRO:HD2	1.88	0.73
52:DU:92:ARG:HH22	53:DV:10:LYS:HG2	1.53	0.73
53:DV:24:LYS:HE2	53:DV:90:PRO:HB2	1.70	0.73
1:AA:52:G:O2'	1:AA:53:A:H5'	1.88	0.73
22:AY:60:A:H4'	22:AY:61:A:OP1	1.89	0.73
35:BA:389:G:H1	47:BP:71:VAL:HG12	1.54	0.73
1:CA:985:C:H2'	1:CA:986:A:C8	2.23	0.73
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	1.71	0.73
12:CL:54:LYS:HB2	12:CL:70:ILE:HB	1.69	0.73
37:DC:11:LEU:HD22	37:DC:33:LEU:HA	1.69	0.73
41:DG:101:ILE:HG22	41:DG:105:LYS:CE	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:95:ARG:HB3	51:DT:95:ARG:HH11	1.53	0.73
52:DU:90:VAL:HG22	53:DV:39:LEU:HG	1.69	0.73
22:AV:17:C:H5"	22:AV:18:U:H6	1.49	0.73
22:AV:26:G:H2'	22:AV:27:C:C6	2.24	0.73
22:AY:9:A:N3	22:AY:47:G:H2'	2.02	0.73
22:AY:55:G:H5"	48:BQ:56:ARG:CZ	2.18	0.73
29:B4:5:ILE:HG12	41:BG:67:LYS:HD3	1.69	0.73
37:BC:30:VAL:HG11	37:BC:42:VAL:HG22	1.71	0.73
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.22	0.73
42:BH:83:TYR:HA	42:BH:135:GLY:H	1.54	0.73
1:CA:405:U:H3'	1:CA:406:G:H5'	1.69	0.73
1:CA:475:G:H2'	1:CA:476:G:H8	1.53	0.73
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.89	0.73
2:CB:95:GLN:NE2	2:CB:147:LYS:HE2	2.03	0.73
6:CF:35:ALA:HA	6:CF:67:MET:HB3	1.70	0.73
9:CI:99:LEU:HB3	9:CI:101:PHE:CD1	2.23	0.73
22:CY:49:G:H3'	22:CY:50:C:C5'	2.18	0.73
26:D1:19:GLN:HA	26:D1:19:GLN:HE21	1.52	0.73
35:DA:1047:G:H2'	35:DA:1110:G:H22	1.52	0.73
1:AA:738:C:H5"	6:AF:69:GLU:HB2	1.71	0.73
2:AB:101:MET:HE2	2:AB:101:MET:HA	1.69	0.73
4:AD:122:ARG:HH12	4:AD:135:LEU:HD12	1.52	0.73
20:AT:50:GLU:HA	20:AT:100:ILE:CG2	2.18	0.73
33:B8:39:LYS:HG2	33:B8:43:GLN:HE21	1.54	0.73
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.89	0.73
46:BO:2:ILE:CD1	46:BO:82:ASN:HD22	2.02	0.73
1:CA:1410:G:H2'	1:CA:1411:C:C6	2.23	0.73
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.70	0.73
22:CV:24:A:C2	22:CV:25:A:C5	2.77	0.73
57:DZ:45:ASP:O	57:DZ:49:ARG:HG2	1.87	0.73
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.24	0.73
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.69	0.73
4:AD:128:VAL:O	4:AD:130:GLY:N	2.22	0.73
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.70	0.73
23:AW:33:G:H2'	23:AW:34:C:C1'	2.18	0.73
38:BD:10:THR:HG23	38:BD:13:ARG:CB	2.19	0.73
39:BE:61:ARG:H	39:BE:62:PRO:HD2	1.54	0.73
46:BO:111:PHE:O	46:BO:115:VAL:HG23	1.88	0.73
50:BS:20:ARG:HA	50:BS:20:ARG:NE	2.03	0.73
51:BT:28:VAL:HG13	51:BT:46:GLU:HA	1.70	0.73
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2334:G:N3	50:DS:18:ILE:HD12	2.03	0.73
35:DA:2524:G:H8	35:DA:2524:G:H5'	1.52	0.73
39:DE:62:PRO:C	39:DE:64:LYS:H	1.97	0.73
1:AA:198:G:H2'	1:AA:199:G:H8	1.53	0.73
1:AA:674:G:H2'	1:AA:675:A:H8	1.54	0.73
23:AW:25:A:H2'	23:AW:26:G:N7	2.03	0.73
23:AW:27:C:C3'	23:AW:28:G:H8	2.00	0.73
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.03	0.73
35:BA:1403:C:H5"	35:BA:1471:A:H1'	1.71	0.73
35:BA:1434:A:H61	35:BA:1558:A:H62	1.37	0.73
56:BY:8:LYS:HE2	56:BY:72:VAL:HG23	1.70	0.73
4:CD:59:ARG:HA	4:CD:59:ARG:NE	2.03	0.73
35:DA:626:U:C2	47:DP:105:LEU:HG	2.23	0.73
35:DA:2134:A:H61	35:DA:2157:G:H1'	1.53	0.73
38:DD:210:GLY:O	38:DD:212:SER:N	2.22	0.73
43:DI:134:PRO:O	43:DI:135:GLU:HG2	1.88	0.73
49:DR:113:LEU:O	49:DR:113:LEU:HD23	1.88	0.73
1:AA:1228:C:P	13:AM:108:ARG:HH22	2.12	0.73
2:AB:55:PHE:HA	2:AB:58:ILE:HB	1.70	0.73
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.04	0.73
22:AY:19:G:OP1	22:AY:19:G:H8	1.71	0.73
33:B8:48:PHE:O	33:B8:49:VAL:HG22	1.88	0.73
35:BA:1314:C:H5'	35:BA:1314:C:C6	2.24	0.73
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.53	0.73
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.69	0.73
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.02	0.73
41:BG:48:GLU:O	41:BG:49:ASP:HB2	1.89	0.73
42:BH:54:ARG:HD2	42:BH:56:SER:O	1.88	0.73
47:BP:7:ARG:HH11	47:BP:7:ARG:CA	2.01	0.73
53:BV:18:LEU:HD22	53:BV:19:LYS:N	2.03	0.73
1:CA:92:C:H2'	1:CA:93:G:H8	1.50	0.73
1:CA:404:U:H2'	1:CA:405:U:C6	2.24	0.73
12:CL:40:VAL:HG11	12:CL:77:LEU:O	1.89	0.73
17:CQ:26:GLN:HG2	17:CQ:37:LYS:HG2	1.71	0.73
35:DA:389:G:H1	47:DP:71:VAL:HG12	1.52	0.73
53:DV:2:PHE:HB2	53:DV:42:GLY:HA2	1.71	0.73
54:DW:65:LEU:HD23	54:DW:68:ARG:HD2	1.71	0.73
56:DY:28:LYS:HB3	56:DY:37:VAL:HB	1.70	0.73
9:AI:125:TYR:CE1	9:AI:127:LYS:HB2	2.24	0.73
18:AR:36:ASN:HB3	18:AR:39:VAL:CG2	2.19	0.73
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.14	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:88:TYR:O	9:CI:89:ASN:HB2	1.89	0.73
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.23	0.73
23:CW:4:C:O2'	23:CW:5:C:C5	2.42	0.73
23:CW:11:C:H2'	23:CW:12:U:C6	2.23	0.73
23:CW:20:G:OP2	23:CW:21:U:H5	1.72	0.73
23:CW:72:C:H2'	23:CW:73:C:O4'	1.89	0.73
30:D5:40:LYS:HE2	30:D5:46:CYS:HB3	1.71	0.73
35:DA:330:A:C2	35:DA:1210:A:H2'	2.22	0.73
35:DA:874:G:H5"	57:DZ:175:VAL:HG12	1.71	0.73
35:DA:1639:U:H2'	35:DA:1640:C:H5"	1.70	0.73
39:DE:24:THR:HG21	39:DE:188:VAL:HG12	1.69	0.73
1:AA:438:G:H2'	1:AA:494:U:C4	2.24	0.72
19:AS:6:LYS:H	19:AS:6:LYS:CD	2.01	0.72
31:B6:27:LYS:HB3	31:B6:30:THR:HG22	1.69	0.72
35:BA:672:C:H2'	35:BA:673:C:C5'	2.19	0.72
35:BA:1038:C:H42	35:BA:1117:G:H1	1.36	0.72
42:BH:124:GLU:HB2	42:BH:132:ARG:HG2	1.71	0.72
1:CA:438:G:H2'	1:CA:494:U:O4	1.87	0.72
1:CA:551:U:H2'	1:CA:552:U:C6	2.24	0.72
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.70	0.72
1:CA:1314:C:OP2	19:CS:6:LYS:HG3	1.89	0.72
1:CA:1442(B):A:H2'	51:DT:118:ARG:NH1	2.04	0.72
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.71	0.72
11:CK:22:HIS:HB3	11:CK:29:ILE:HG23	1.69	0.72
11:CK:58:PRO:HA	11:CK:90:GLY:HA3	1.71	0.72
15:CO:39:LEU:HD11	15:CO:56:LEU:HB2	1.70	0.72
22:CY:6:C:H2'	22:CY:7:U:C6	2.24	0.72
22:CY:23:A:H2'	22:CY:24:A:C8	2.24	0.72
35:DA:2124:G:H5"	37:DC:175:PRO:HG3	1.71	0.72
38:DD:117:VAL:HG22	38:DD:118:VAL:H	1.54	0.72
57:DZ:103:ARG:O	57:DZ:138:GLU:HA	1.89	0.72
1:AA:1144:G:H21	1:AA:1146:A:H62	1.33	0.72
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.54	0.72
22:AY:56:U:C6	57:BZ:182:LYS:O	2.42	0.72
35:BA:1639:U:H2'	35:BA:1640:C:H5"	1.71	0.72
36:BB:40:U:H3'	36:BB:41:U:C5'	2.20	0.72
1:CA:738:C:H5"	6:CF:69:GLU:HB2	1.71	0.72
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.70	0.72
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	1.71	0.72
23:CW:4:C:O2'	23:CW:5:C:H5	1.72	0.72
35:DA:597:U:H4'	47:DP:15:ARG:HH11	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:188:ARG:HA	47:DP:7:ARG:HD3	1.71	0.72
43:DI:84:GLY:O	43:DI:85:GLU:HB2	1.87	0.72
50:DS:30:ARG:HH22	50:DS:62:LYS:HD2	1.54	0.72
1:AA:404:U:H2'	1:AA:405:U:C6	2.24	0.72
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.04	0.72
9:AI:55:ALA:HA	9:AI:58:HIS:HD2	1.55	0.72
12:AL:27:LEU:HG	12:AL:62:SER:CB	2.19	0.72
23:AW:61:A:H2'	23:AW:62:U:H5'	1.71	0.72
35:BA:548:A:C2'	35:BA:549:G:H5'	2.17	0.72
38:BD:21:PHE:HB3	38:BD:24:ILE:HD12	1.72	0.72
39:BE:16:ARG:O	39:BE:17:ASP:HB2	1.90	0.72
45:BN:62:VAL:HG11	45:BN:67:LEU:HD21	1.72	0.72
54:BW:29:LEU:HD21	54:BW:33:ARG:NH2	2.05	0.72
54:BW:40:ASN:O	54:BW:41:LYS:HG2	1.90	0.72
1:CA:817:C:H1'	1:CA:819:A:H5'	1.72	0.72
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.89	0.72
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.52	0.72
4:CD:129:ASN:HD21	4:CD:145:GLU:N	1.86	0.72
6:CF:62:TRP:C	6:CF:63:TYR:HD1	1.96	0.72
22:CY:58:C:H3'	57:DZ:182:LYS:NZ	2.02	0.72
22:CY:60:A:C2	57:DZ:186:GLU:CB	2.66	0.72
31:D6:43:CYS:O	31:D6:44:ARG:HB2	1.88	0.72
33:D8:48:PHE:O	33:D8:49:VAL:HG22	1.88	0.72
35:DA:197:A:H5'	35:DA:197:A:C8	2.23	0.72
35:DA:212:G:O2'	35:DA:213:A:H5'	1.90	0.72
35:DA:330:A:HO2'	35:DA:331:A:H8	1.38	0.72
35:DA:2206:G:N2	35:DA:2207:G:H5'	2.05	0.72
48:DQ:63:LYS:HD2	57:DZ:175:VAL:HG21	1.71	0.72
1:AA:160:A:H1'	1:AA:344:A:C5	2.24	0.72
2:AB:76:GLN:O	2:AB:208:ILE:HG12	1.89	0.72
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.03	0.72
23:AW:72:C:H2'	23:AW:73:C:O4'	1.89	0.72
30:B5:3:LYS:HE2	35:BA:2613:U:C2'	2.19	0.72
35:BA:597:U:H4'	47:BP:15:ARG:HH11	1.54	0.72
43:BI:58:LEU:O	43:BI:58:LEU:HD23	1.90	0.72
43:BI:113:ARG:HH22	43:BI:132:PRO:HD3	1.53	0.72
54:BW:92:ARG:HH11	54:BW:92:ARG:CB	2.01	0.72
12:CL:47:LYS:NZ	12:CL:48:PRO:HD3	2.05	0.72
31:D6:12:GLU:HA	31:D6:23:THR:HA	1.71	0.72
33:D8:6:THR:HA	33:D8:61:LEU:HD11	1.70	0.72
33:D8:59:LYS:HB2	33:D8:59:LYS:HZ2	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D9:4:ARG:HD2	34:D9:34:GLN:NE2	2.04	0.72
35:DA:1038:C:H42	35:DA:1117:G:H1	1.36	0.72
45:DN:62:VAL:HG11	45:DN:67:LEU:HD21	1.69	0.72
48:DQ:12:GLN:HG2	48:DQ:73:PRO:HD2	1.70	0.72
1:AA:853:G:O2'	1:AA:854:G:H5'	1.88	0.72
9:AI:27:THR:HG23	9:AI:31:GLN:C	2.14	0.72
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.71	0.72
13:AM:91:ARG:HB2	13:AM:98:VAL:HG13	1.71	0.72
23:AW:39:A:H3'	23:AW:41:C:P	2.29	0.72
31:B6:43:CYS:O	31:B6:44:ARG:HB2	1.88	0.72
35:BA:528:A:C2	35:BA:2043:C:H4'	2.25	0.72
35:BA:558:G:P	45:BN:111:PRO:HD2	2.29	0.72
54:BW:4:LYS:HG2	54:BW:5:ALA:H	1.53	0.72
56:BY:59:GLY:O	56:BY:60:PHE:HB2	1.89	0.72
1:CA:950:U:H2'	1:CA:951:G:H8	1.53	0.72
1:CA:1293:G:HO2'	1:CA:1294:G:H8	1.38	0.72
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.71	0.72
5:CE:73:ASN:HD22	5:CE:73:ASN:N	1.86	0.72
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.04	0.72
10:CJ:13:HIS:O	10:CJ:17:ASP:HB2	1.88	0.72
22:CV:25:A:H2'	22:CV:26:G:H8	1.54	0.72
22:CY:10:G:H2'	22:CY:11:C:H6	1.53	0.72
40:DF:103:LYS:HA	40:DF:106:ARG:HG3	1.72	0.72
43:DI:132:PRO:HG2	43:DI:133:HIS:ND1	2.03	0.72
50:DS:20:ARG:HA	50:DS:20:ARG:NE	2.03	0.72
57:DZ:165:VAL:CG1	57:DZ:169:GLU:HB2	2.19	0.72
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.72	0.72
2:AB:142:LEU:O	2:AB:142:LEU:HD23	1.90	0.72
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.03	0.72
10:AJ:13:HIS:O	10:AJ:17:ASP:HB2	1.90	0.72
18:AR:53:ARG:HD2	18:AR:59:SER:O	1.90	0.72
22:AY:20:G:C2	22:AY:58:C:N3	2.57	0.72
43:BI:77:LEU:HD23	43:BI:141:LYS:HG2	1.69	0.72
47:BP:101:VAL:HG12	47:BP:106:LEU:HB3	1.72	0.72
51:BT:62:THR:HG22	51:BT:75:ILE:HG12	1.72	0.72
56:BY:95:LYS:HG2	56:BY:101:LYS:H	1.54	0.72
8:CH:51:VAL:HG11	8:CH:60:ARG:HB2	1.71	0.72
9:CI:53:VAL:HG11	9:CI:85:LEU:HD22	1.70	0.72
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.24	0.72
47:DP:7:ARG:HH11	47:DP:7:ARG:HA	1.53	0.72
57:DZ:102:LEU:HD11	57:DZ:124:ILE:HG23	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:92:C:H2'	1:AA:93:G:H8	1.49	0.72
1:AA:735:C:H2'	1:AA:736:C:C6	2.24	0.72
31:B6:12:GLU:HA	31:B6:23:THR:HA	1.70	0.72
35:BA:2134:A:H61	35:BA:2157:G:H1'	1.54	0.72
47:BP:7:ARG:O	47:BP:10:PRO:HD2	1.89	0.72
56:BY:28:LYS:HB3	56:BY:37:VAL:HB	1.72	0.72
1:CA:434:U:H2'	1:CA:435:C:C6	2.25	0.72
1:CA:537:G:H5"	12:CL:113:ARG:NH1	2.04	0.72
1:CA:853:G:O2'	1:CA:854:G:H5'	1.89	0.72
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.69	0.72
9:CI:99:LEU:HB3	9:CI:101:PHE:HD1	1.52	0.72
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.20	0.72
16:CP:43:LYS:HG3	16:CP:48:TRP:CG	2.24	0.72
22:CY:11:C:H2'	22:CY:12:U:H6	1.51	0.72
31:D6:34:LEU:HD23	31:D6:51:GLU:HB3	1.72	0.72
47:DP:48:PRO:O	47:DP:50:ARG:N	2.21	0.72
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.71	0.72
4:AD:79:PHE:CE2	4:AD:207:TYR:HB2	2.25	0.72
8:AH:12:ARG:NH1	8:AH:26:VAL:HA	2.05	0.72
8:AH:51:VAL:HG11	8:AH:60:ARG:HB2	1.71	0.72
13:AM:88:ARG:HA	13:AM:98:VAL:HG11	1.70	0.72
23:AW:20:G:P	23:AW:21:U:H5	2.12	0.72
35:BA:2334:G:N3	50:BS:18:ILE:HD12	2.05	0.72
35:BA:2415:G:H4'	47:BP:67:MET:N	2.04	0.72
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.71	0.72
41:BG:51:ARG:HD3	41:BG:53:LEU:HD23	1.70	0.72
46:BO:111:PHE:HB3	46:BO:114:ILE:HD13	1.70	0.72
47:BP:47:ASP:HB3	47:BP:48:PRO:HA	1.72	0.72
57:BZ:102:LEU:HD22	57:BZ:139:VAL:CG2	2.19	0.72
2:CB:114:ARG:HH11	2:CB:118:LEU:HD21	1.54	0.72
4:CD:122:ARG:HH12	4:CD:135:LEU:HD12	1.54	0.72
4:CD:126:ILE:CG2	4:CD:127:THR:H	2.02	0.72
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.17	0.72
22:CV:17:C:H5"	22:CV:18:U:H6	1.51	0.72
31:D6:5:VAL:HG22	31:D6:6:ARG:H	1.54	0.72
35:DA:548:A:C2'	35:DA:549:G:H5'	2.18	0.72
35:DA:2302:G:H1'	41:DG:128:ARG:NE	2.05	0.72
47:DP:97:PRO:O	47:DP:98:GLU:HB3	1.88	0.72
51:DT:51:ARG:HG3	51:DT:98:LYS:HG3	1.70	0.72
1:AA:1363(A):A:C4'	1:AA:1364:U:H5"	2.15	0.72
7:AG:31:MET:HE3	7:AG:34:GLY:HA2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:43:G:H2'	23:AW:44:A:H8	1.55	0.72
35:BA:1542:A:H3'	35:BA:1542:A:H8	1.55	0.72
37:BC:7:ARG:NH2	37:BC:219:MET:HB3	2.03	0.72
39:BE:10:GLY:HA3	51:BT:8:LYS:NZ	2.05	0.72
50:BS:35:ILE:HD11	50:BS:99:LYS:CE	2.19	0.72
51:BT:89:VAL:HG12	51:BT:91:ARG:HG3	1.72	0.72
56:BY:7:VAL:HG21	56:BY:8:LYS:NZ	2.04	0.72
1:CA:32:A:H2'	1:CA:33:A:C8	2.23	0.72
1:CA:735:C:H2'	1:CA:736:C:C6	2.25	0.72
1:CA:1104:G:H2'	1:CA:1105:A:H8	1.55	0.72
5:CE:71:LEU:O	5:CE:72:GLN:HG3	1.89	0.72
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.04	0.72
19:CS:44:MET:HA	19:CS:44:MET:HE3	1.72	0.72
22:CY:55:G:H5"	48:DQ:56:ARG:CZ	2.19	0.72
28:D3:52:HIS:CD2	36:DB:83:G:H4'	2.25	0.72
33:D8:37:SER:C	33:D8:39:LYS:H	1.96	0.72
33:D8:39:LYS:HG2	33:D8:43:GLN:HE21	1.55	0.72
35:DA:672:C:H2'	35:DA:673:C:C5'	2.19	0.72
35:DA:2761:G:H3'	35:DA:2762:G:H5"	1.71	0.72
46:DO:77:ILE:HD12	51:DT:73:GLU:O	1.90	0.72
51:DT:129:ARG:HH12	51:DT:131:ALA:CB	2.01	0.72
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.72	0.72
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	1.89	0.72
12:AL:40:VAL:HG11	12:AL:77:LEU:O	1.90	0.72
22:AV:19:G:H2'	22:AV:59:G:N2	2.05	0.72
23:AW:74:C:C6	23:AW:74:C:H5'	2.25	0.72
22:AY:49:G:H3'	22:AY:50:C:C5'	2.19	0.72
27:B2:7:ARG:O	27:B2:11:GLU:HG3	1.89	0.72
33:B8:52:LYS:N	33:B8:53:PRO:HD2	2.05	0.72
35:BA:1899:G:H21	35:BA:1902:C:H5	1.37	0.72
49:BR:67:LEU:HD22	49:BR:76:VAL:HG21	1.72	0.72
1:CA:1515:C:H2'	1:CA:1516:G:H8	1.54	0.72
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.90	0.72
2:CB:101:MET:HE2	2:CB:101:MET:HA	1.71	0.72
2:CB:168:THR:HG23	2:CB:192:SER:OG	1.90	0.72
12:CL:32:PHE:CE1	12:CL:86:ARG:HG3	2.24	0.72
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.70	0.72
22:CY:63:C:C5'	57:DZ:186:GLU:HG3	2.20	0.72
31:D6:27:LYS:HB3	31:D6:30:THR:HG22	1.71	0.72
43:DI:81:VAL:HG13	43:DI:143:SER:N	2.05	0.72
43:DI:113:ARG:HH22	43:DI:132:PRO:HD3	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:59:GLY:O	56:DY:60:PHE:HB2	1.89	0.72
1:AA:383:A:C2'	1:AA:384:G:H5'	2.20	0.71
1:AA:1492:A:OP1	12:AL:47:LYS:HA	1.90	0.71
5:AE:73:ASN:N	5:AE:73:ASN:HD22	1.87	0.71
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.25	0.71
12:AL:46:LYS:HD3	12:AL:92:ASP:C	2.14	0.71
23:AW:3:G:C6	23:AW:4:C:C4	2.77	0.71
22:AY:23:A:H2'	22:AY:24:A:H8	1.54	0.71
52:BU:92:ARG:CZ	53:BV:11:GLN:H	2.03	0.71
57:BZ:80:ARG:HA	57:BZ:80:ARG:HH11	1.55	0.71
3:CC:91:LEU:HD11	3:CC:101:LEU:HD12	1.72	0.71
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.70	0.71
23:CW:38:U:H2'	23:CW:39:A:C8	2.24	0.71
22:CY:57:U:H1'	57:DZ:184:ALA:HB3	1.71	0.71
35:DA:642:G:H21	35:DA:646:A:H2	1.37	0.71
35:DA:1748:G:H5'	35:DA:1748:G:H8	1.55	0.71
35:DA:1899:G:H21	35:DA:1902:C:H5	1.38	0.71
35:DA:2894:G:H2'	35:DA:2894:G:N3	2.05	0.71
1:AA:817:C:H1'	1:AA:819:A:H5'	1.72	0.71
3:AC:131:ARG:NH1	5:AE:50:GLU:HG2	2.05	0.71
9:AI:7:THR:H	9:AI:83:ARG:HD2	1.54	0.71
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.20	0.71
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.70	0.71
19:AS:44:MET:HA	19:AS:44:MET:HE3	1.70	0.71
22:AV:33:G:C5	22:AV:34:C:C5	2.79	0.71
22:AY:57:U:OP2	57:BZ:182:LYS:HB2	1.90	0.71
35:BA:587:C:C5	47:BP:33:ARG:HD3	2.24	0.71
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.54	0.71
37:BC:34:ALA:HB1	37:BC:40:GLU:HB2	1.71	0.71
41:BG:112:PRO:C	41:BG:113:ARG:HA	2.16	0.71
47:BP:6:LEU:HD12	47:BP:8:PRO:HG2	1.72	0.71
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.25	0.71
5:CE:147:ASP:O	5:CE:150:ARG:HB3	1.89	0.71
9:CI:7:THR:HB	9:CI:83:ARG:HH11	1.55	0.71
17:CQ:55:ASP:HA	17:CQ:79:SER:HA	1.72	0.71
22:CY:57:U:O2	22:CY:59:G:C5	2.43	0.71
35:DA:594:U:H2'	35:DA:595:C:C6	2.25	0.71
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.53	0.71
36:DB:49:C:H2'	36:DB:50:G:C8	2.24	0.71
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.25	0.71
42:DH:68:THR:C	42:DH:70:THR:H	1.98	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DO:68:GLU:HB3	46:DO:78:ARG:NH1	2.05	0.71
1:AA:537:G:H5"	12:AL:113:ARG:NH1	2.06	0.71
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.89	0.71
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.14	0.71
16:AP:43:LYS:HG3	16:AP:48:TRP:CG	2.24	0.71
17:AQ:90:ILE:HG22	17:AQ:94:ASN:HD21	1.56	0.71
35:BA:1281:G:H8	35:BA:1281:G:H5'	1.53	0.71
36:BB:40:U:H3'	36:BB:41:U:H5"	1.72	0.71
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.05	0.71
47:BP:71:VAL:CG1	47:BP:72:PRO:HD3	2.19	0.71
1:CA:674:G:H2'	1:CA:675:A:H8	1.54	0.71
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.55	0.71
7:CG:16:LEU:HD13	9:CI:42:ARG:HA	1.70	0.71
14:CN:24:CYS:HB3	14:CN:27:CYS:O	1.90	0.71
43:DI:92:VAL:HG13	43:DI:97:ILE:CG1	2.19	0.71
47:DP:115:LEU:HA	47:DP:134:ALA:CB	2.19	0.71
57:DZ:97:GLU:HB3	57:DZ:125:LEU:HD11	1.72	0.71
9:AI:88:TYR:O	9:AI:89:ASN:HB2	1.88	0.71
16:AP:2:VAL:HG23	16:AP:21:VAL:HG23	1.73	0.71
22:AV:1:G:C1'	25:B0:5:LYS:HZ1	1.99	0.71
22:AV:4:C:O2'	22:AV:5:C:C6	2.39	0.71
23:AW:37:A:H2'	23:AW:38:U:O4'	1.90	0.71
40:BF:188:ARG:HA	47:BP:7:ARG:HD3	1.72	0.71
50:BS:90:GLY:C	50:BS:92:TYR:H	1.98	0.71
51:BT:116:ALA:HB1	51:BT:121:ILE:HD11	1.72	0.71
54:BW:65:LEU:HD23	54:BW:68:ARG:HD2	1.72	0.71
1:CA:383:A:C2'	1:CA:384:G:H5'	2.19	0.71
1:CA:1400:C:O5'	1:CA:1400:C:H6	1.72	0.71
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.71	0.71
3:CC:139:GLN:HE21	3:CC:143:GLU:HG3	1.56	0.71
3:CC:182:ILE:HG23	3:CC:202:ILE:C	2.16	0.71
25:D0:43:THR:HG22	35:DA:2331:G:O2'	1.91	0.71
29:D4:7:PRO:HD2	41:DG:65:GLY:O	1.89	0.71
35:DA:1278:A:OP1	49:DR:36:THR:HG22	1.89	0.71
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.89	0.71
35:DA:2287:A:H62	35:DA:2344:U:H3	1.37	0.71
47:DP:85:LEU:HA	47:DP:88:LEU:HD13	1.73	0.71
51:DT:28:VAL:O	51:DT:29:ARG:HB2	1.89	0.71
1:AA:921:U:O2	5:AE:19:MET:HB2	1.91	0.71
1:AA:1442(A):G:H3'	1:AA:1442(B):A:H5'	1.71	0.71
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2121:G:H1	35:BA:2177:C:H42	1.37	0.71
35:BA:2894:G:N3	35:BA:2894:G:H2'	2.04	0.71
53:BV:49:THR:HB	53:BV:50:PRO:CD	2.21	0.71
1:CA:1228:C:H2'	1:CA:1229:A:H8	1.55	0.71
35:DA:296:C:O2'	35:DA:297:C:H5'	1.90	0.71
35:DA:997:G:O2'	35:DA:998:C:H5'	1.90	0.71
37:DC:30:VAL:HG11	37:DC:42:VAL:HG22	1.70	0.71
51:DT:34:VAL:HG12	51:DT:35:LYS:N	2.05	0.71
54:DW:73:ALA:HB3	54:DW:106:ILE:HD11	1.71	0.71
57:DZ:144:LEU:O	57:DZ:174:VAL:HG21	1.91	0.71
1:AA:177:C:O2'	1:AA:178:C:H5'	1.90	0.71
1:AA:626:U:H5"	16:AP:38:TYR:CD2	2.26	0.71
3:AC:139:GLN:HE21	3:AC:143:GLU:HG3	1.55	0.71
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.72	0.71
25:B0:14:ARG:HH11	25:B0:14:ARG:CB	2.02	0.71
26:B1:82:LEU:HB3	26:B1:90:ILE:HD12	1.72	0.71
35:BA:2287:A:H62	35:BA:2344:U:H3	1.36	0.71
39:BE:11:MET:HE2	39:BE:24:THR:HB	1.72	0.71
51:BT:28:VAL:O	51:BT:29:ARG:HB2	1.90	0.71
51:BT:107:ASP:CG	51:BT:108:ARG:H	1.99	0.71
57:BZ:11:GLU:HB2	57:BZ:13:GLU:OE1	1.91	0.71
1:CA:198:G:H2'	1:CA:199:G:H8	1.54	0.71
1:CA:438:G:H2'	1:CA:494:U:C4	2.25	0.71
2:CB:22:LYS:HE2	2:CB:22:LYS:HA	1.72	0.71
2:CB:111:ARG:HH21	2:CB:114:ARG:HG2	1.55	0.71
35:DA:2121:G:H1	35:DA:2177:C:H42	1.36	0.71
35:DA:2188:C:H2'	35:DA:2189:U:O4'	1.91	0.71
35:DA:2219:G:O2'	35:DA:2220:G:H5'	1.90	0.71
37:DC:52:PRO:HG2	37:DC:53:ARG:HD3	1.72	0.71
43:DI:93:THR:HG23	43:DI:119:PRO:HB3	1.72	0.71
45:DN:126:PRO:O	45:DN:127:ASP:HB2	1.90	0.71
47:DP:6:LEU:HD12	47:DP:8:PRO:HG2	1.72	0.71
50:DS:90:GLY:C	50:DS:92:TYR:H	1.98	0.71
56:DY:31:LEU:N	56:DY:31:LEU:HD22	2.06	0.71
7:AG:111:ARG:HE	7:AG:123:GLU:HB2	1.55	0.71
13:AM:40:ASN:HD21	13:AM:42:ALA:HB3	1.54	0.71
22:AY:57:U:H6	57:BZ:183:LEU:N	1.84	0.71
29:B4:26:SER:HB2	41:BG:143:GLU:CD	2.16	0.71
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.37	0.71
35:BA:1047:G:H2'	35:BA:1110:G:H22	1.53	0.71
38:BD:79:VAL:HG21	38:BD:111:LEU:HD11	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:179:GLU:HB3	39:BE:181:LEU:CD2	2.21	0.71
40:BF:161:GLU:O	40:BF:165:ARG:HG3	1.91	0.71
53:BV:39:LEU:HD12	53:BV:50:PRO:O	1.90	0.71
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.05	0.71
13:CM:91:ARG:HB2	13:CM:98:VAL:HG13	1.72	0.71
19:CS:6:LYS:H	19:CS:6:LYS:CD	2.03	0.71
23:CW:44:A:H2'	23:CW:45:U:C4'	2.20	0.71
33:D8:30:ARG:HE	33:D8:30:ARG:HA	1.55	0.71
40:DF:3:GLU:CA	40:DF:24:LEU:HG	2.20	0.71
51:DT:28:VAL:HG13	51:DT:46:GLU:HA	1.71	0.71
1:AA:833:U:H2'	1:AA:834:C:C6	2.26	0.71
12:AL:32:PHE:CE1	12:AL:86:ARG:HG3	2.26	0.71
23:AW:43:G:H2'	23:AW:44:A:C8	2.26	0.71
29:B4:5:ILE:N	29:B4:5:ILE:HD13	2.05	0.71
33:B8:6:THR:HA	33:B8:61:LEU:HD11	1.72	0.71
43:BI:123:LEU:HD11	43:BI:144:VAL:CG2	2.21	0.71
51:BT:34:VAL:HG12	51:BT:35:LYS:N	2.06	0.71
1:CA:728:A:H2'	1:CA:729:A:H8	1.56	0.71
1:CA:1053:G:N7	1:CA:1200:C:H5"	2.04	0.71
3:CC:54:ARG:NH1	3:CC:56:ASP:HB2	2.05	0.71
4:CD:79:PHE:CE2	4:CD:207:TYR:HB2	2.25	0.71
21:CU:2:GLY:C	21:CU:4:GLY:H	1.99	0.71
22:CY:30:U:H2'	22:CY:31:C:C6	2.26	0.71
35:DA:528:A:C2	35:DA:2043:C:H4'	2.25	0.71
35:DA:558:G:P	45:DN:111:PRO:HD2	2.30	0.71
35:DA:768:G:O2'	35:DA:1379:A:N6	2.23	0.71
35:DA:806:C:OP2	47:DP:39:LYS:HD2	1.91	0.71
39:DE:57:LYS:C	39:DE:59:VAL:H	1.99	0.71
41:DG:95:ARG:HH11	41:DG:95:ARG:HG2	1.56	0.71
42:DH:170:ARG:H	42:DH:170:ARG:HD2	1.56	0.71
47:DP:146:VAL:CG2	47:DP:147:LEU:H	1.99	0.71
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.06	0.71
11:AK:91:ARG:HD2	11:AK:92:GLU:N	2.05	0.71
12:AL:58:VAL:O	12:AL:65:GLU:HA	1.91	0.71
23:AW:42:C:O2'	23:AW:43:G:H5'	1.91	0.71
23:AW:44:A:H2'	23:AW:45:U:C4'	2.21	0.71
51:BT:60:THR:HG22	51:BT:77:PRO:HA	1.71	0.71
9:CI:55:ALA:HA	9:CI:58:HIS:HD2	1.55	0.71
13:CM:88:ARG:HA	13:CM:98:VAL:HG11	1.72	0.71
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.06	0.71
17:CQ:12:SER:HB3	17:CQ:20:THR:HB	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:64:C:H5”	37:DC:53:ARG:O	1.91	0.71
22:CY:20:G:C2	22:CY:58:C:N3	2.58	0.71
30:D5:40:LYS:CE	30:D5:46:CYS:HB3	2.21	0.71
35:DA:2250:G:N2	48:DQ:84:GLY:HA3	2.06	0.71
39:DE:179:GLU:HB3	39:DE:181:LEU:CD2	2.20	0.71
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.06	0.71
52:DU:68:ALA:O	52:DU:71:GLN:HB3	1.90	0.71
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	1.91	0.71
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.37	0.71
22:AV:30:U:C2	22:AV:31:C:C5	2.79	0.71
35:BA:893:C:H2’	35:BA:894:C:H6	1.56	0.71
35:BA:1748:G:H8	35:BA:1748:G:H5’	1.56	0.71
40:BF:122:LYS:HE2	40:BF:122:LYS:HA	1.73	0.71
41:BG:57:ALA:HA	41:BG:90:LEU:HD21	1.73	0.71
42:BH:41:MET:HE3	42:BH:42:ARG:N	2.06	0.71
47:BP:48:PRO:HG2	47:BP:49:ARG:N	2.05	0.71
1:CA:177:C:O2’	1:CA:178:C:H5’	1.91	0.71
3:CC:70:VAL:O	3:CC:105:GLU:HA	1.90	0.71
7:CG:111:ARG:HE	7:CG:123:GLU:HB2	1.55	0.71
35:DA:2174:C:H1’	37:DC:219:MET:HE1	1.73	0.71
43:DI:77:LEU:HD23	43:DI:141:LYS:HG2	1.72	0.71
1:AA:333:G:H4’	20:AT:16:HIS:CE1	2.26	0.70
1:AA:339:C:H2’	1:AA:340:U:C6	2.25	0.70
2:AB:18:GLY:H	2:AB:42:ILE:CG2	2.04	0.70
2:AB:111:ARG:HH21	2:AB:114:ARG:HG2	1.56	0.70
11:AK:102:GLY:C	11:AK:103:LEU:HD22	2.16	0.70
14:AN:7:ILE:O	14:AN:11:LYS:HG3	1.91	0.70
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.72	0.70
26:B1:49:VAL:HG11	26:B1:70:VAL:HG11	1.71	0.70
27:B2:3:LEU:O	27:B2:3:LEU:HD23	1.90	0.70
35:BA:806:C:OP2	47:BP:39:LYS:HD2	1.90	0.70
35:BA:1786:A:C2	35:BA:2606:C:H1’	2.26	0.70
36:BB:11:C:H2’	36:BB:12:C:H5’	1.72	0.70
40:BF:3:GLU:CA	40:BF:24:LEU:HG	2.21	0.70
40:BF:158:THR:HB	40:BF:195:ASP:HB2	1.74	0.70
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.90	0.70
50:BS:106:ARG:NH1	50:BS:106:ARG:HB3	2.06	0.70
2:CB:142:LEU:HD23	2:CB:142:LEU:O	1.90	0.70
12:CL:36:VAL:H	12:CL:58:VAL:HG13	1.54	0.70
40:DF:122:LYS:HA	40:DF:122:LYS:HE2	1.72	0.70
50:DS:54:LEU:HD13	50:DS:54:LEU:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:640:A:N3	8:AH:115:SER:HB3	2.06	0.70
1:AA:1125:U:H3	10:AJ:5:ARG:HH21	1.39	0.70
8:AH:118:VAL:O	8:AH:119:LEU:HD23	1.92	0.70
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	1.91	0.70
21:AU:2:GLY:C	21:AU:4:GLY:H	2.00	0.70
22:AY:10:G:H2'	22:AY:11:C:H6	1.54	0.70
35:BA:259:G:H21	35:BA:621:A:H8	1.40	0.70
35:BA:271(D):G:H1	35:BA:271(T):C:H42	1.36	0.70
35:BA:2134:A:N6	35:BA:2157:G:H1'	2.06	0.70
36:BB:49:C:H2'	36:BB:50:G:C8	2.26	0.70
43:BI:93:THR:HG23	43:BI:119:PRO:HB3	1.71	0.70
50:BS:88:ASP:CG	50:BS:89:ARG:H	1.97	0.70
1:CA:881:G:P	12:CL:12:ARG:HH22	2.14	0.70
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.71	0.70
13:CM:40:ASN:HD21	13:CM:42:ALA:HB3	1.56	0.70
13:CM:90:LEU:O	13:CM:91:ARG:HG2	1.91	0.70
16:CP:2:VAL:HG22	16:CP:64:ALA:HB1	1.71	0.70
23:CW:33:G:N3	23:CW:34:C:H1'	2.06	0.70
23:CW:70:G:C5	23:CW:71:G:C5	2.78	0.70
26:D1:53:VAL:CG2	26:D1:74:VAL:HG13	2.21	0.70
35:DA:2415:G:H4'	47:DP:67:MET:N	2.06	0.70
42:DH:41:MET:HE3	42:DH:42:ARG:N	2.06	0.70
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.92	0.70
1:AA:1423:G:H5'	46:BO:49:ARG:HH22	1.55	0.70
4:AD:59:ARG:HE	4:AD:59:ARG:CA	2.04	0.70
9:AI:114:TYR:HD1	9:AI:114:TYR:H	1.37	0.70
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	1.73	0.70
41:BG:32:PRO:HB2	41:BG:172:LEU:HD12	1.74	0.70
51:BT:91:ARG:HB3	51:BT:116:ALA:HA	1.71	0.70
56:BY:14:LEU:HD11	56:BY:22:GLY:HA2	1.73	0.70
3:CC:77:ILE:HG12	3:CC:84:ILE:HD12	1.71	0.70
4:CD:9:CYS:SG	58:CD:1000:ZN:ZN	1.78	0.70
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.17	0.70
16:CP:67:THR:HG22	16:CP:68:ASP:H	1.56	0.70
18:CR:36:ASN:HB3	18:CR:39:VAL:CG2	2.21	0.70
35:DA:1403:C:H5"	35:DA:1471:A:H1'	1.71	0.70
36:DB:94:C:H2'	36:DB:95:C:H6	1.56	0.70
42:DH:105:LEU:HD23	42:DH:105:LEU:H	1.57	0.70
53:DV:18:LEU:HD22	53:DV:19:LYS:N	2.05	0.70
1:AA:1116:C:C2'	1:AA:1117:G:H5"	2.21	0.70
3:AC:54:ARG:NH1	3:AC:56:ASP:HB2	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.73	0.70
22:AV:3:G:H1	22:AV:72:C:H42	1.40	0.70
22:AV:14:A:C3'	22:AV:15:G:H8	1.93	0.70
30:B5:40:LYS:HE2	30:B5:46:CYS:HB3	1.73	0.70
34:B9:4:ARG:HD2	34:B9:34:GLN:NE2	2.06	0.70
35:BA:768:G:O2'	35:BA:1379:A:N6	2.25	0.70
37:BC:52:PRO:HG2	37:BC:53:ARG:HD3	1.73	0.70
43:BI:41:GLU:O	43:BI:45:LYS:HG2	1.91	0.70
50:BS:54:LEU:HD13	50:BS:54:LEU:O	1.90	0.70
57:BZ:128:VAL:CG2	57:BZ:132:ASN:HB2	2.20	0.70
1:CA:634:C:H2'	1:CA:635:G:H8	1.56	0.70
1:CA:1152:A:H5"	10:CJ:13:HIS:HD2	1.56	0.70
1:CA:1405:G:H2'	1:CA:1406:U:H6	1.56	0.70
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.57	0.70
11:CK:91:ARG:HD2	11:CK:92:GLU:N	2.05	0.70
22:CV:2:G:H2'	22:CV:2:G:N3	2.05	0.70
30:D5:3:LYS:HE2	35:DA:2613:U:C2'	2.21	0.70
35:DA:1173:G:H3'	35:DA:1174:A:H5'	1.73	0.70
35:DA:1542:A:H3'	35:DA:1542:A:H8	1.56	0.70
36:DB:40:U:H3'	36:DB:41:U:C5'	2.21	0.70
39:DE:16:ARG:O	39:DE:17:ASP:HB2	1.91	0.70
39:DE:46:ALA:HB2	39:DE:82:ARG:HA	1.72	0.70
39:DE:61:ARG:H	39:DE:62:PRO:HD2	1.54	0.70
45:DN:48:MET:HE3	45:DN:48:MET:H	1.56	0.70
51:DT:116:ALA:HB1	51:DT:121:ILE:HD11	1.71	0.70
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.74	0.70
22:AV:39:A:H2'	22:AV:40:A:C8	2.27	0.70
23:AW:5:C:C2	23:AW:72:C:N3	2.59	0.70
35:BA:1014:U:H2'	35:BA:1015:G:H5"	1.73	0.70
1:CA:833:U:H2'	1:CA:834:C:C6	2.26	0.70
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.26	0.70
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.39	0.70
10:CJ:51:ARG:NE	10:CJ:61:GLU:HB2	2.06	0.70
15:CO:65:ARG:HH11	15:CO:65:ARG:HG2	1.55	0.70
25:D0:26:TYR:O	25:D0:29:GLN:HB2	1.92	0.70
33:D8:49:VAL:HG12	35:DA:2360:A:OP1	1.91	0.70
35:DA:1040:C:H42	35:DA:1115:G:H1	1.37	0.70
35:DA:1803:A:O2'	38:DD:259:THR:HG21	1.91	0.70
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.26	0.70
38:DD:242:ARG:N	38:DD:242:ARG:HD2	2.06	0.70
49:DR:7:GLY:O	49:DR:8:ARG:NE	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:7:VAL:HG21	56:DY:8:LYS:NZ	2.07	0.70
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.90	0.70
2:AB:114:ARG:HH11	2:AB:118:LEU:HD21	1.55	0.70
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.56	0.70
16:AP:2:VAL:HG22	16:AP:64:ALA:HB1	1.73	0.70
22:AV:39:A:H2'	22:AV:40:A:H8	1.57	0.70
23:AW:38:U:H2'	23:AW:39:A:C8	2.27	0.70
22:AY:6:C:N3	22:AY:69:G:O6	2.25	0.70
35:BA:2124:G:H5"	37:BC:175:PRO:HG3	1.72	0.70
42:BH:170:ARG:HD2	42:BH:170:ARG:H	1.55	0.70
51:BT:129:ARG:HH12	51:BT:131:ALA:CB	2.02	0.70
56:BY:81:LYS:HD3	56:BY:97:ARG:O	1.92	0.70
57:BZ:37:VAL:HG23	57:BZ:38:TYR:N	2.06	0.70
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.74	0.70
1:CA:1228:C:P	13:CM:108:ARG:HH22	2.14	0.70
3:CC:76:VAL:HG23	3:CC:77:ILE:N	2.05	0.70
13:CM:6:GLY:C	13:CM:8:GLU:H	1.98	0.70
48:DQ:56:ARG:HD3	57:DZ:180:VAL:HG11	1.73	0.70
48:DQ:76:LYS:HB3	48:DQ:91:GLU:HG3	1.73	0.70
48:DQ:110:THR:HG23	48:DQ:113:GLN:OE1	1.91	0.70
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.26	0.70
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.73	0.70
2:AB:181:PHE:HD1	8:AH:70:GLN:HB3	1.57	0.70
9:AI:43:ALA:HA	9:AI:74:ILE:HD13	1.70	0.70
19:AS:51:VAL:O	19:AS:58:VAL:HG22	1.91	0.70
32:B7:45:ALA:O	32:B7:46:VAL:HG23	1.92	0.70
35:BA:1173:G:H3'	35:BA:1174:A:H5'	1.73	0.70
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.57	0.70
44:BJ:84:UNK:C	44:BJ:86:UNK:N	2.53	0.70
1:CA:254:G:H2'	1:CA:255:G:H8	1.57	0.70
1:CA:940:C:H2'	1:CA:941:G:H8	1.56	0.70
1:CA:1116:C:C2'	1:CA:1117:G:H5"	2.22	0.70
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.72	0.70
23:CW:42:C:O2'	23:CW:43:G:H5'	1.91	0.70
22:CY:62:U:O3'	57:DZ:186:GLU:HG2	1.90	0.70
26:D1:6:GLU:O	26:D1:7:ILE:HD12	1.92	0.70
35:DA:2134:A:N6	35:DA:2157:G:H1'	2.06	0.70
36:DB:42:C:H4'	41:DG:67:LYS:HZ3	1.56	0.70
41:DG:29:TRP:HA	41:DG:29:TRP:CE3	2.27	0.70
48:DQ:1:MET:O	48:DQ:2:LEU:HB2	1.90	0.70
51:DT:70:VAL:HG12	51:DT:71:GLY:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:49:THR:HB	53:DV:50:PRO:CD	2.22	0.70
54:DW:40:ASN:O	54:DW:41:LYS:HG2	1.91	0.70
56:DY:28:LYS:O	56:DY:38:ILE:HB	1.90	0.70
56:DY:96:ILE:HG22	56:DY:97:ARG:N	2.06	0.70
1:AA:17:U:H2'	1:AA:18:C:C6	2.27	0.70
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.73	0.70
4:AD:126:ILE:CG2	4:AD:127:THR:H	2.03	0.70
4:AD:177:ASP:OD1	4:AD:179:GLU:HB2	1.92	0.70
33:B8:37:SER:C	33:B8:39:LYS:H	1.98	0.70
51:BT:30:VAL:CG2	51:BT:84:GLN:HG3	2.22	0.70
51:BT:51:ARG:HG3	51:BT:98:LYS:HG3	1.73	0.70
52:BU:92:ARG:HH22	53:BV:10:LYS:HG2	1.55	0.70
1:CA:474:G:H2'	1:CA:475:G:H8	1.57	0.70
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.27	0.70
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.57	0.70
13:CM:116:THR:HG22	22:CV:31:C:H4'	1.72	0.70
31:D6:26:ASN:O	31:D6:27:LYS:HB2	1.91	0.70
41:DG:91:ARG:HD2	41:DG:91:ARG:C	2.16	0.70
50:DS:88:ASP:CG	50:DS:89:ARG:H	1.99	0.70
1:AA:32:A:H2'	1:AA:33:A:C8	2.26	0.70
1:AA:191:G:C4	20:AT:105:SER:HB3	2.27	0.70
8:AH:40:ALA:C	8:AH:42:GLU:H	1.99	0.70
12:AL:89:ARG:HH12	12:AL:97:ARG:HG2	1.56	0.70
22:AY:55:G:H5"	48:BQ:56:ARG:HH22	1.56	0.70
22:AY:57:U:H3'	57:BZ:182:LYS:CB	2.07	0.70
35:BA:1798:U:C5'	38:BD:259:THR:HG22	2.18	0.70
35:BA:2312:U:O3'	41:BG:71:THR:HG21	1.92	0.70
39:BE:46:ALA:HB2	39:BE:82:ARG:HA	1.74	0.70
47:BP:38:GLN:HG3	47:BP:39:LYS:N	2.07	0.70
47:BP:84:ASN:HA	47:BP:115:LEU:O	1.92	0.70
53:BV:81:TYR:C	53:BV:82:ARG:HD2	2.17	0.70
54:BW:29:LEU:HD21	54:BW:33:ARG:HH21	1.56	0.70
56:BY:96:ILE:HG22	56:BY:97:ARG:N	2.06	0.70
8:CH:12:ARG:NH1	8:CH:26:VAL:HA	2.05	0.70
10:CJ:9:ARG:HG2	10:CJ:69:ASN:OD1	1.92	0.70
18:CR:53:ARG:HH11	18:CR:60:ALA:HA	1.57	0.70
35:DA:2132:U:N3	37:DC:6:LYS:HB2	2.07	0.70
35:DA:2724:C:P	49:DR:2:ARG:HH22	2.15	0.70
1:AA:1053:G:N7	1:AA:1200:C:H5"	2.07	0.70
6:AF:35:ALA:HA	6:AF:67:MET:HB3	1.73	0.70
6:AF:61:LEU:HD23	6:AF:63:TYR:OH	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:7:THR:HB	9:AI:83:ARG:HH11	1.55	0.70
22:AY:11:C:H41	22:AY:47:G:N2	1.87	0.70
35:BA:404:C:C4'	35:BA:405:U:H5'	2.21	0.70
35:BA:953:A:O2'	35:BA:954:G:H5'	1.90	0.70
38:BD:117:VAL:HG22	38:BD:118:VAL:H	1.56	0.70
45:BN:47:ALA:CB	45:BN:112:LEU:HD11	2.22	0.70
47:BP:7:ARG:HH11	47:BP:7:ARG:HA	1.55	0.70
47:BP:55:ARG:CG	47:BP:56:SER:H	1.96	0.70
52:BU:68:ALA:O	52:BU:71:GLN:HB3	1.91	0.70
1:CA:191:G:C4	20:CT:105:SER:HB3	2.27	0.70
1:CA:1296:C:H3'	1:CA:1297:C:C6	2.27	0.70
22:CY:57:U:O4	22:CY:60:A:OP2	2.09	0.70
33:D8:52:LYS:N	33:D8:53:PRO:HD2	2.07	0.70
35:DA:1014:U:H2'	35:DA:1015:G:H5"	1.74	0.70
36:DB:92:C:H2'	36:DB:93:G:H8	1.57	0.70
57:DZ:110:GLY:HA3	57:DZ:174:VAL:HG11	1.74	0.70
1:AA:339:C:H2'	1:AA:340:U:H6	1.57	0.69
1:AA:444:C:H2'	1:AA:445:G:H8	1.55	0.69
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.57	0.69
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.71	0.69
6:AF:19:LEU:O	6:AF:19:LEU:HD23	1.92	0.69
12:AL:36:VAL:H	12:AL:58:VAL:HG13	1.54	0.69
31:B6:48:VAL:HG23	31:B6:49:HIS:H	1.57	0.69
39:BE:59:VAL:O	39:BE:60:ASN:CG	2.34	0.69
40:BF:103:LYS:HA	40:BF:106:ARG:HG3	1.73	0.69
48:BQ:110:THR:HG23	48:BQ:113:GLN:OE1	1.92	0.69
50:BS:89:ARG:HG2	50:BS:92:TYR:HA	1.72	0.69
1:CA:636:U:H2'	1:CA:637:G:C8	2.27	0.69
10:CJ:51:ARG:HE	10:CJ:61:GLU:HB2	1.57	0.69
23:CW:74:C:H5'	23:CW:74:C:C6	2.27	0.69
27:D2:51:ARG:HD3	27:D2:55:ARG:HH12	1.53	0.69
30:D5:3:LYS:NZ	30:D5:5:PRO:HB2	2.06	0.69
48:DQ:132:VAL:CG1	57:DZ:81:ARG:HH21	2.02	0.69
52:DU:54:LYS:O	52:DU:58:ARG:HG3	1.92	0.69
55:DX:64:LYS:HZ3	55:DX:73:ARG:HE	1.39	0.69
56:DY:9:LYS:O	56:DY:28:LYS:NZ	2.25	0.69
1:AA:939:G:H5"	7:AG:102:ARG:CZ	2.23	0.69
1:AA:1109:C:H2'	1:AA:1110:A:O4'	1.93	0.69
1:AA:1407:C:O2'	35:BA:1912:A:N1	2.23	0.69
3:AC:77:ILE:HG12	3:AC:84:ILE:HD12	1.74	0.69
4:AD:132:ARG:C	4:AD:132:ARG:HD2	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:3:G:N1	22:AV:4:C:C4	2.60	0.69
23:AW:20:G:C3'	23:AW:21:U:H5"	2.21	0.69
35:BA:481:G:OP2	56:BY:47:LYS:HD3	1.93	0.69
35:BA:1603:A:H5'	35:BA:1603:A:H8	1.56	0.69
35:BA:2761:G:H3'	35:BA:2762:G:H5"	1.75	0.69
39:BE:57:LYS:C	39:BE:59:VAL:H	1.99	0.69
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.74	0.69
48:BQ:62:GLY:O	57:BZ:178:GLU:HB2	1.92	0.69
56:BY:8:LYS:HD2	56:BY:8:LYS:N	2.07	0.69
57:BZ:153:SER:HB2	57:BZ:163:LEU:CD1	2.21	0.69
1:CA:545:C:H5"	4:CD:72:GLU:HG2	1.73	0.69
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.72	0.69
4:CD:177:ASP:OD1	4:CD:179:GLU:HB2	1.92	0.69
6:CF:19:LEU:O	6:CF:19:LEU:HD23	1.93	0.69
22:CV:63:C:H2'	22:CV:64:C:C6	2.27	0.69
31:D6:48:VAL:HG23	31:D6:49:HIS:H	1.57	0.69
33:D8:2:PRO:HA	35:DA:591:C:O2	1.92	0.69
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.05	0.69
41:DG:131:TYR:H	41:DG:159:VAL:HG13	1.55	0.69
46:DO:22:ILE:HD11	46:DO:42:SER:HB2	1.73	0.69
53:DV:81:TYR:C	53:DV:82:ARG:HD2	2.17	0.69
1:AA:155:C:H2'	1:AA:156:G:C8	2.27	0.69
1:AA:1054:C:C4	22:AY:36:AG9:C1'	2.75	0.69
35:BA:212:G:O2'	35:BA:213:A:H5'	1.92	0.69
38:BD:49:ILE:HD11	38:BD:52:ARG:HA	1.74	0.69
46:BO:68:GLU:HB3	46:BO:78:ARG:NH1	2.07	0.69
1:CA:1129:C:N4	1:CA:1135:U:H3	1.90	0.69
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.72	0.69
2:CB:20:GLU:O	2:CB:39:ILE:HG23	1.92	0.69
1:AA:979:C:H3'	1:AA:980:C:C5'	2.18	0.69
1:AA:1296:C:H3'	1:AA:1297:C:C6	2.27	0.69
3:AC:182:ILE:HG23	3:AC:202:ILE:C	2.17	0.69
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.73	0.69
13:AM:3:ARG:HB2	29:B4:34:GLU:CD	2.17	0.69
22:AY:19:G:C6	22:AY:60:A:N6	2.60	0.69
25:B0:70:GLN:NE2	25:B0:80:HIS:NE2	2.41	0.69
34:B9:36:GLN:HG2	35:BA:1124:C:O2'	1.92	0.69
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.74	0.69
36:BB:50:G:P	50:BS:62:LYS:HB2	2.31	0.69
49:BR:117:VAL:O	49:BR:118:GLU:HB2	1.91	0.69
50:BS:30:ARG:HH22	50:BS:62:LYS:HD2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:106:ARG:C	50:BS:106:ARG:HH11	2.00	0.69
1:CA:160:A:H1'	1:CA:344:A:C5	2.27	0.69
1:CA:640:A:N3	8:CH:115:SER:HB3	2.06	0.69
1:CA:1109:C:H2'	1:CA:1110:A:O4'	1.92	0.69
13:CM:81:LEU:HD13	13:CM:88:ARG:HB3	1.73	0.69
22:CY:57:U:C5	22:CY:59:G:OP2	2.45	0.69
36:DB:40:U:H3'	36:DB:41:U:H5"	1.73	0.69
40:DF:178:PRO:HG2	40:DF:179:GLU:OE1	1.93	0.69
51:DT:89:VAL:HG12	51:DT:91:ARG:HG3	1.72	0.69
52:DU:92:ARG:CZ	53:DV:11:GLN:H	2.06	0.69
54:DW:29:LEU:HD21	54:DW:33:ARG:NH2	2.06	0.69
56:DY:81:LYS:HD3	56:DY:97:ARG:O	1.92	0.69
57:DZ:16:SER:HA	57:DZ:19:ARG:HD2	1.74	0.69
1:AA:254:G:H2'	1:AA:255:G:H8	1.57	0.69
1:AA:491:G:H2'	1:AA:492:G:C8	2.22	0.69
2:AB:140:HIS:CA	2:AB:143:GLU:HG2	2.22	0.69
3:AC:88:ARG:HA	3:AC:91:LEU:HD12	1.75	0.69
8:AH:1:MET:HE2	8:AH:1:MET:N	2.07	0.69
35:BA:32:C:O2'	35:BA:33:U:H5'	1.92	0.69
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.07	0.69
45:BN:126:PRO:O	45:BN:127:ASP:HB2	1.92	0.69
47:BP:122:PRO:HA	47:BP:141:ALA:O	1.92	0.69
48:BQ:76:LYS:HB3	48:BQ:91:GLU:HG3	1.72	0.69
12:CL:83:VAL:CG1	12:CL:84:LEU:N	2.56	0.69
13:CM:5:ALA:HB1	13:CM:66:LEU:HD13	1.74	0.69
34:D9:3:VAL:HG21	35:DA:2539:C:H5'	1.74	0.69
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.09	0.69
40:DF:132:VAL:HG22	40:DF:133:ASN:ND2	2.08	0.69
50:DS:106:ARG:HB3	50:DS:106:ARG:NH1	2.08	0.69
57:DZ:70:LEU:HD11	57:DZ:98:MET:SD	2.33	0.69
2:AB:20:GLU:O	2:AB:39:ILE:HG23	1.92	0.69
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.74	0.69
12:AL:47:LYS:HE2	12:AL:48:PRO:HB3	1.74	0.69
13:AM:5:ALA:HB1	13:AM:66:LEU:HD13	1.74	0.69
22:AV:5:C:N3	22:AV:71:G:C6	2.61	0.69
26:B1:53:VAL:HG22	26:B1:74:VAL:HG13	1.74	0.69
35:BA:2472:G:H3'	35:BA:2475:C:N4	2.08	0.69
40:BF:108:LYS:HD2	40:BF:112:MET:CE	2.23	0.69
42:BH:12:PRO:HD2	42:BH:15:VAL:HG21	1.75	0.69
47:BP:115:LEU:HA	47:BP:134:ALA:CB	2.22	0.69
57:BZ:45:ASP:O	57:BZ:49:ARG:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:165:C:H2'	1:CA:166:G:H8	1.56	0.69
1:CA:1400:C:C4	22:CV:36:AG9:C4	2.76	0.69
4:CD:11:LEU:HD13	4:CD:66:ARG:HD3	1.75	0.69
4:CD:132:ARG:HD2	4:CD:132:ARG:C	2.18	0.69
6:CF:45:LEU:HD21	6:CF:57:GLN:OE1	1.92	0.69
6:CF:91:VAL:HG11	18:CR:72:ARG:NH1	2.08	0.69
22:CV:52:C:H2'	22:CV:53:U:H6	1.56	0.69
41:DG:107:LEU:HD23	41:DG:111:LEU:HD11	1.74	0.69
43:DI:41:GLU:O	43:DI:45:LYS:HG2	1.93	0.69
47:DP:38:GLN:HG3	47:DP:39:LYS:N	2.05	0.69
54:DW:58:ALA:HB1	54:DW:64:MET:SD	2.33	0.69
1:AA:985:C:H2'	1:AA:986:A:H8	1.56	0.69
3:AC:76:VAL:HG23	3:AC:77:ILE:N	2.05	0.69
5:AE:147:ASP:O	5:AE:150:ARG:HB3	1.93	0.69
12:AL:22:SER:C	12:AL:24:VAL:H	2.01	0.69
12:AL:83:VAL:CG1	12:AL:84:LEU:N	2.56	0.69
29:B4:28:LYS:HA	29:B4:28:LYS:HE3	1.74	0.69
35:BA:298:G:H5'	35:BA:299:A:OP1	1.91	0.69
35:BA:642:G:H21	35:BA:646:A:H2	1.40	0.69
35:BA:1278:A:OP1	49:BR:36:THR:HG22	1.92	0.69
35:BA:2132:U:N3	37:BC:6:LYS:HB2	2.06	0.69
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.27	0.69
41:BG:61:ALA:HB2	41:BG:67:LYS:HA	1.74	0.69
53:BV:38:LEU:O	53:BV:39:LEU:HD13	1.92	0.69
54:BW:73:ALA:HB3	54:BW:106:ILE:HD11	1.73	0.69
1:CA:155:C:H2'	1:CA:156:G:C8	2.28	0.69
2:CB:95:GLN:HE21	2:CB:147:LYS:HE2	1.58	0.69
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.57	0.69
10:CJ:3:LYS:NZ	10:CJ:76:ASN:HA	2.07	0.69
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.74	0.69
11:CK:43:SER:HA	11:CK:47:VAL:HG21	1.75	0.69
22:CY:43:G:O2'	22:CY:44:A:H5'	1.91	0.69
29:D4:27:THR:O	29:D4:28:LYS:HB3	1.93	0.69
35:DA:674:G:H1'	40:DF:74:ARG:HD2	1.74	0.69
35:DA:674:G:O2'	40:DF:74:ARG:HD3	1.92	0.69
35:DA:709:U:H3	35:DA:722:A:H61	1.38	0.69
35:DA:2303:G:H4'	41:DG:125:PHE:O	1.92	0.69
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.27	0.69
47:DP:101:VAL:HG12	47:DP:106:LEU:HB3	1.73	0.69
1:AA:1240:U:OP2	7:AG:116:ALA:HB2	1.91	0.69
4:AD:129:ASN:ND2	4:AD:145:GLU:H	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:154(A):C:H3'	35:BA:155:U:C5'	2.23	0.69
45:BN:48:MET:H	45:BN:48:MET:CE	2.05	0.69
48:BQ:1:MET:O	48:BQ:2:LEU:HB2	1.92	0.69
56:BY:81:LYS:HD2	56:BY:96:ILE:HG22	1.74	0.69
1:CA:444:C:H2'	1:CA:445:G:H8	1.57	0.69
1:CA:491:G:H2'	1:CA:492:G:C8	2.23	0.69
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.58	0.69
1:CA:1125:U:H3	10:CJ:5:ARG:HH21	1.40	0.69
1:CA:1196:U:C4	24:CX:23:A:N7	2.49	0.69
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.56	0.69
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	1.92	0.69
12:CL:20:LYS:HD2	12:CL:20:LYS:H	1.56	0.69
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.72	0.69
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.72	0.69
22:CV:39:A:H2'	22:CV:40:A:C8	2.28	0.69
23:CW:39:A:H3'	23:CW:40:A:O3'	1.93	0.69
23:CW:42:C:H2'	23:CW:43:G:O4'	1.92	0.69
25:D0:10:THR:HG22	25:D0:11:ARG:N	2.06	0.69
33:D8:10:ALA:O	33:D8:14:VAL:HG12	1.93	0.69
35:DA:607:U:OP1	40:DF:102:PRO:HA	1.93	0.69
35:DA:843:G:O2'	35:DA:844:C:H5'	1.93	0.69
35:DA:2761:G:C3'	35:DA:2762:G:H5"	2.22	0.69
38:DD:144:ALA:HB3	38:DD:192:THR:HG22	1.74	0.69
38:DD:181:GLU:HA	38:DD:272:ALA:HB3	1.72	0.69
42:DH:149:ARG:HA	42:DH:162:ILE:CD1	2.23	0.69
49:DR:117:VAL:O	49:DR:118:GLU:HB2	1.93	0.69
51:DT:62:THR:HG22	51:DT:75:ILE:HG12	1.75	0.69
1:AA:636:U:H2'	1:AA:637:G:C8	2.28	0.69
1:AA:692:U:OP1	11:AK:124:LYS:HE2	1.92	0.69
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.58	0.69
12:AL:20:LYS:HD2	12:AL:20:LYS:H	1.57	0.69
13:AM:90:LEU:O	13:AM:91:ARG:HG2	1.93	0.69
19:AS:63:THR:O	19:AS:66:MET:HG2	1.93	0.69
22:AV:2:G:N3	22:AV:2:G:H2'	2.06	0.69
23:AW:58:C:C4	35:BA:2169:A:H1'	2.28	0.69
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	1.93	0.69
35:BA:2523:G:H2'	35:BA:2524:G:C5'	2.22	0.69
2:CB:67:THR:HG21	2:CB:155:LEU:HD21	1.74	0.69
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.22	0.69
25:D0:48:GLY:H	25:D0:51:VAL:HB	1.57	0.69
34:D9:36:GLN:HG2	35:DA:1124:C:O2'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:119:ARG:HG2	39:DE:160:TYR:HB2	1.75	0.69
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.73	0.69
41:DG:161:THR:HG22	41:DG:163:ALA:H	1.56	0.69
49:DR:100:LEU:H	49:DR:100:LEU:HD22	1.58	0.69
50:DS:106:ARG:HH11	50:DS:106:ARG:C	2.00	0.69
2:AB:95:GLN:HE21	2:AB:147:LYS:HE2	1.57	0.69
4:AD:59:ARG:HA	4:AD:59:ARG:NE	2.05	0.69
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.56	0.69
10:AJ:3:LYS:NZ	10:AJ:76:ASN:HA	2.07	0.69
16:AP:68:ASP:C	16:AP:70:ALA:H	2.01	0.69
20:AT:57:ARG:NH1	20:AT:102:GLY:HA3	2.08	0.69
35:BA:672:C:O2'	35:BA:673:C:H5"	1.92	0.69
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.74	0.69
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.27	0.69
3:CC:64:VAL:CG1	3:CC:66:VAL:HG23	2.24	0.69
6:CF:61:LEU:HD23	6:CF:63:TYR:OH	1.92	0.69
11:CK:126:ARG:HB3	11:CK:126:ARG:NH1	2.08	0.69
23:CW:74:C:H2'	23:CW:74:C:O2	1.91	0.69
35:DA:271(P):C:O2'	35:DA:271(Q):G:H5'	1.92	0.69
35:DA:2178:C:H4'	37:DC:47:LYS:HD3	1.75	0.69
35:DA:2405:G:O2'	35:DA:2411:A:N6	2.26	0.69
35:DA:2755:C:HO2'	35:DA:2756:U:H6	1.41	0.69
11:AK:58:PRO:HA	11:AK:90:GLY:HA3	1.73	0.68
13:AM:81:LEU:HD13	13:AM:88:ARG:HB3	1.75	0.68
22:AY:11:C:H41	22:AY:47:G:H21	1.40	0.68
22:AY:69:G:C6	22:AY:70:G:C5	2.80	0.68
31:B6:26:ASN:O	31:B6:27:LYS:HB2	1.92	0.68
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.27	0.68
39:BE:24:THR:HG22	39:BE:186:GLY:HA2	1.75	0.68
42:BH:105:LEU:HD23	42:BH:105:LEU:H	1.57	0.68
52:BU:54:LYS:O	52:BU:58:ARG:HG3	1.93	0.68
53:BV:18:LEU:CG	53:BV:19:LYS:H	2.07	0.68
57:BZ:4:ARG:HD2	57:BZ:60:GLU:OE2	1.93	0.68
17:CQ:90:ILE:HG22	17:CQ:94:ASN:HD21	1.56	0.68
23:CW:34:C:H5'	23:CW:35:U:OP1	1.93	0.68
33:D8:13:ARG:O	33:D8:14:VAL:HB	1.93	0.68
35:DA:298:G:H5'	35:DA:299:A:OP1	1.92	0.68
35:DA:2656:U:H3	35:DA:2665:A:H2	1.41	0.68
35:DA:2679:A:H4'	39:DE:165:VAL:HG11	1.73	0.68
40:DF:158:THR:HB	40:DF:195:ASP:HB2	1.73	0.68
46:DO:105:GLU:O	46:DO:108:GLU:HG2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:121:HIS:HB3	57:DZ:171:ILE:HG22	1.75	0.68
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.06	0.68
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.58	0.68
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.19	0.68
10:AJ:81:THR:C	10:AJ:83:GLU:H	2.01	0.68
23:AW:49:G:H3'	23:AW:50:C:H5"	1.75	0.68
22:AY:51:G:O2'	22:AY:52:C:H5'	1.93	0.68
29:B4:27:THR:O	29:B4:28:LYS:HB3	1.93	0.68
35:BA:709:U:H3	35:BA:722:A:H61	1.39	0.68
35:BA:2761:G:C3'	35:BA:2762:G:H5"	2.24	0.68
52:BU:31:SER:C	52:BU:33:ARG:H	2.01	0.68
15:CO:17:ARG:HG2	15:CO:21:ASP:OD2	1.93	0.68
35:DA:2590:A:O2'	35:DA:2591:C:H5'	1.93	0.68
40:DF:63:LYS:NZ	40:DF:67:GLN:HB2	2.07	0.68
45:DN:48:MET:H	45:DN:48:MET:CE	2.06	0.68
47:DP:48:PRO:CG	47:DP:49:ARG:H	2.07	0.68
49:DR:55:ALA:HA	49:DR:80:PHE:CE1	2.28	0.68
1:AA:165:C:H2'	1:AA:166:G:H8	1.57	0.68
1:AA:963:G:H21	10:AJ:55:LYS:NZ	1.90	0.68
3:AC:70:VAL:O	3:AC:105:GLU:HA	1.94	0.68
11:AK:54:ARG:O	11:AK:57:THR:HG22	1.94	0.68
18:AR:53:ARG:HH11	18:AR:60:ALA:HA	1.57	0.68
22:AY:11:C:C2'	22:AY:12:U:C6	2.74	0.68
22:AY:29:A:O2'	22:AY:30:U:H5'	1.93	0.68
38:BD:144:ALA:HB3	38:BD:192:THR:HG22	1.75	0.68
42:BH:149:ARG:HA	42:BH:162:ILE:CD1	2.24	0.68
1:CA:963:G:H21	10:CJ:55:LYS:NZ	1.92	0.68
1:CA:985:C:H2'	1:CA:986:A:H8	1.56	0.68
1:CA:1016:A:H2'	1:CA:1017:G:O4'	1.92	0.68
4:CD:61:LYS:HD2	4:CD:207:TYR:OH	1.93	0.68
27:D2:12:GLU:O	27:D2:16:LEU:HG	1.93	0.68
32:D7:45:ALA:O	32:D7:46:VAL:HG23	1.92	0.68
35:DA:481:G:H1'	35:DA:506:G:H21	1.59	0.68
36:DB:11:C:H2'	36:DB:12:C:H5'	1.74	0.68
50:DS:13:ARG:CG	50:DS:14:VAL:H	2.06	0.68
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.55	0.68
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.58	0.68
6:AF:91:VAL:HG11	18:AR:72:ARG:NH1	2.09	0.68
10:AJ:51:ARG:NE	10:AJ:61:GLU:HB2	2.07	0.68
11:AK:20:TYR:HB2	11:AK:31:THR:HG22	1.75	0.68
30:B5:40:LYS:CE	30:B5:46:CYS:HB3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.29	0.68
35:BA:2174:C:H1'	37:BC:219:MET:HE1	1.74	0.68
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.57	0.68
43:BI:98:ALA:HB1	43:BI:109:ILE:HB	1.76	0.68
55:BX:64:LYS:HZ2	55:BX:73:ARG:NH2	1.90	0.68
1:CA:17:U:H2'	1:CA:18:C:C6	2.28	0.68
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.28	0.68
3:CC:162:GLN:HG2	24:CX:24:A:O4'	1.93	0.68
7:CG:84:ASN:HD21	23:CW:36:C:N4	1.91	0.68
8:CH:40:ALA:C	8:CH:42:GLU:H	2.00	0.68
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.76	0.68
22:CV:31:C:H2'	22:CV:32:G:H8	1.59	0.68
23:CW:45:U:H3'	23:CW:46:U:H6	1.56	0.68
25:D0:70:GLN:NE2	25:D0:80:HIS:NE2	2.41	0.68
29:D4:33:VAL:HG21	41:DG:109:VAL:HG22	1.76	0.68
35:DA:1914:C:H2'	35:DA:1915:U:C6	2.29	0.68
35:DA:2111:C:H1'	35:DA:2118:U:O4'	1.93	0.68
47:DP:47:ASP:HB3	47:DP:48:PRO:HA	1.74	0.68
53:DV:39:LEU:O	53:DV:40:LEU:HB2	1.93	0.68
56:DY:84:ARG:HG2	56:DY:84:ARG:HH11	1.57	0.68
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.19	0.68
11:AK:74:ALA:C	11:AK:76:GLY:H	2.01	0.68
14:AN:24:CYS:HB3	14:AN:27:CYS:O	1.94	0.68
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.76	0.68
19:AS:40:ILE:HD13	19:AS:62:ILE:HD13	1.75	0.68
20:AT:18:GLN:HE21	20:AT:22:ARG:NH1	1.92	0.68
31:B6:34:LEU:HD23	31:B6:51:GLU:HB3	1.74	0.68
35:BA:286:C:H2'	35:BA:287:C:H6	1.56	0.68
35:BA:528:A:N1	35:BA:2042:A:H2'	2.08	0.68
35:BA:674:G:O2'	40:BF:74:ARG:HD3	1.93	0.68
35:BA:813:U:H2'	35:BA:814:C:C6	2.29	0.68
35:BA:1169:G:H1	35:BA:1180:C:H42	1.40	0.68
35:BA:1803:A:O2'	38:BD:259:THR:HG21	1.93	0.68
40:BF:202:PHE:O	40:BF:206:ILE:HG12	1.94	0.68
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.75	0.68
45:BN:3:THR:O	45:BN:5:VAL:N	2.27	0.68
50:BS:13:ARG:CG	50:BS:14:VAL:H	2.06	0.68
54:BW:5:ALA:O	54:BW:6:ILE:HB	1.93	0.68
1:CA:1240:U:OP2	7:CG:116:ALA:HB2	1.94	0.68
9:CI:27:THR:HG23	9:CI:31:GLN:C	2.18	0.68
12:CL:47:LYS:HE2	12:CL:48:PRO:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:7:ILE:O	14:CN:11:LYS:HG3	1.93	0.68
29:D4:28:LYS:HA	29:D4:28:LYS:HE3	1.74	0.68
35:DA:89:G:H3'	35:DA:90:U:C5'	2.23	0.68
39:DE:61:ARG:C	39:DE:63:LEU:H	2.01	0.68
40:DF:67:GLN:HG3	40:DF:67:GLN:O	1.93	0.68
41:DG:57:ALA:HB2	41:DG:90:LEU:HD21	1.73	0.68
43:DI:47:LEU:O	43:DI:51:ILE:HG12	1.94	0.68
47:DP:59:LEU:CA	47:DP:61:ARG:NH1	2.53	0.68
47:DP:71:VAL:CG1	47:DP:72:PRO:HD3	2.24	0.68
10:AJ:9:ARG:HG2	10:AJ:69:ASN:OD1	1.92	0.68
13:AM:15:VAL:HG23	13:AM:16:ASP:H	1.58	0.68
30:B5:3:LYS:NZ	30:B5:5:PRO:O	2.25	0.68
38:BD:24:ILE:HD13	38:BD:25:THR:H	1.58	0.68
47:BP:107:LYS:C	47:BP:109:GLY:H	2.01	0.68
1:CA:19:C:H5"	5:CE:86:ALA:HB2	1.75	0.68
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.09	0.68
10:CJ:63:PHE:HD1	14:CN:58:LYS:HA	1.57	0.68
11:CK:74:ALA:C	11:CK:76:GLY:H	2.00	0.68
20:CT:57:ARG:NH1	20:CT:102:GLY:HA3	2.08	0.68
22:CV:26:G:H2'	22:CV:27:C:C6	2.29	0.68
23:CW:39:A:C4	23:CW:41:C:OP1	2.47	0.68
35:DA:893:C:H2'	35:DA:894:C:H6	1.58	0.68
35:DA:1314:C:H5'	35:DA:1314:C:C6	2.28	0.68
35:DA:1484:G:H2'	35:DA:1485:G:C5'	2.14	0.68
40:DF:161:GLU:O	40:DF:165:ARG:HG3	1.93	0.68
43:DI:93:THR:H	43:DI:96:ASP:HB2	1.58	0.68
3:AC:64:VAL:CG1	3:AC:66:VAL:HG23	2.23	0.68
4:AD:61:LYS:HD2	4:AD:207:TYR:OH	1.93	0.68
4:AD:157:LEU:HG	4:AD:161:ASN:HD21	1.59	0.68
12:AL:85:ILE:HD11	12:AL:98:TYR:HB2	1.76	0.68
22:AV:4:C:C2	22:AV:5:C:C5	2.81	0.68
23:AW:27:C:C3'	23:AW:28:G:C8	2.76	0.68
22:AY:32:G:C6	22:AY:43:G:C5	2.82	0.68
35:BA:1845:G:H2'	35:BA:1846:G:C5'	2.13	0.68
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.24	0.68
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.74	0.68
45:BN:48:MET:H	45:BN:48:MET:HE3	1.58	0.68
57:BZ:131:ARG:HG3	57:BZ:132:ASN:H	1.59	0.68
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.59	0.68
12:CL:32:PHE:HE1	12:CL:86:ARG:HG3	1.58	0.68
15:CO:4:THR:OG1	15:CO:7:GLU:HG3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CY:57:U:C5	57:DZ:182:LYS:CA	2.56	0.68
30:D5:4:HIS:CB	30:D5:5:PRO:HD3	2.18	0.68
33:D8:37:SER:C	33:D8:39:LYS:N	2.49	0.68
35:DA:518:G:H4'	54:DW:18:ARG:NH1	2.08	0.68
35:DA:588:U:H2'	35:DA:589:C:C6	2.28	0.68
42:DH:12:PRO:HD2	42:DH:15:VAL:HG21	1.76	0.68
43:DI:94:ALA:O	43:DI:98:ALA:HB3	1.94	0.68
45:DN:120:LEU:CD2	45:DN:122:VAL:HG23	2.23	0.68
48:DQ:16:ARG:HG2	48:DQ:17:LEU:H	1.58	0.68
51:DT:107:ASP:CG	51:DT:108:ARG:H	2.02	0.68
54:DW:5:ALA:O	54:DW:6:ILE:HB	1.94	0.68
56:DY:27:VAL:CA	56:DY:28:LYS:HZ1	2.07	0.68
56:DY:46:LYS:H	56:DY:62:GLU:HB2	1.57	0.68
57:DZ:150:LEU:H	57:DZ:150:LEU:HD23	1.59	0.68
1:AA:444:C:H2'	1:AA:445:G:C8	2.29	0.68
1:AA:1321:C:H5'	1:AA:1322:C:H5"	1.76	0.68
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.22	0.68
5:AE:72:GLN:C	5:AE:74:GLY:H	2.02	0.68
7:AG:53:LYS:O	7:AG:54:THR:HB	1.94	0.68
12:AL:32:PHE:HE1	12:AL:86:ARG:HG3	1.58	0.68
12:AL:46:LYS:HB2	12:AL:92:ASP:O	1.94	0.68
22:AV:19:G:N2	22:AV:59:G:H2'	2.09	0.68
22:AY:35:U:C3'	22:AY:36:AG9:H15'	2.24	0.68
35:BA:2219:G:O2'	35:BA:2220:G:H5'	1.94	0.68
40:BF:3:GLU:O	40:BF:19:GLU:HB2	1.94	0.68
49:BR:55:ALA:HA	49:BR:80:PHE:CE1	2.29	0.68
57:BZ:171:ILE:HG13	57:BZ:172:ALA:H	1.59	0.68
1:CA:1370:G:H5"	9:CI:12:GLU:HG3	1.75	0.68
8:CH:1:MET:HE2	8:CH:1:MET:N	2.08	0.68
23:CW:37:A:H2'	23:CW:38:U:O4'	1.94	0.68
23:CW:49:G:H3'	23:CW:50:C:H5"	1.75	0.68
29:D4:5:ILE:HD13	29:D4:5:ILE:N	2.08	0.68
35:DA:545:C:C3'	35:DA:547:A:H5"	2.24	0.68
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.76	0.68
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.29	0.68
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.28	0.68
39:DE:59:VAL:O	39:DE:60:ASN:CG	2.36	0.68
41:DG:118:ARG:HG3	41:DG:118:ARG:HH11	1.58	0.68
43:DI:140:LEU:O	43:DI:141:LYS:HD3	1.94	0.68
46:DO:4:PRO:O	46:DO:5:GLN:HB2	1.94	0.68
47:DP:122:PRO:HA	47:DP:141:ALA:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:88:ILE:C	52:DU:90:VAL:H	1.99	0.68
1:AA:474:G:H2'	1:AA:475:G:H8	1.57	0.68
23:AW:35:U:H2'	23:AW:37:A:OP2	1.94	0.68
31:B6:48:VAL:O	31:B6:49:HIS:HB2	1.94	0.68
35:BA:997:G:O2'	35:BA:998:C:H5'	1.93	0.68
35:BA:2656:U:H3	35:BA:2665:A:H2	1.40	0.68
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.24	0.68
45:BN:96:GLU:OE1	45:BN:96:GLU:N	2.22	0.68
48:BQ:16:ARG:HG2	48:BQ:17:LEU:H	1.59	0.68
50:BS:41:ASP:OD2	50:BS:44:LYS:HG3	1.94	0.68
51:BT:54:ARG:HG2	51:BT:54:ARG:HH11	1.59	0.68
52:BU:85:LYS:HD3	52:BU:117:GLN:HE21	1.59	0.68
1:CA:473:G:H2'	1:CA:474:G:H8	1.58	0.68
8:CH:97:VAL:HG21	8:CH:128:GLY:HA2	1.75	0.68
12:CL:38:THR:HG23	12:CL:39:VAL:N	2.08	0.68
25:D0:14:ARG:HH11	25:D0:14:ARG:CB	2.06	0.68
33:D8:56:GLU:HA	33:D8:59:LYS:NZ	2.09	0.68
52:DU:85:LYS:HD3	52:DU:117:GLN:HE21	1.57	0.68
56:DY:8:LYS:N	56:DY:8:LYS:HD2	2.09	0.68
56:DY:88:LYS:HD3	56:DY:93:GLY:H	1.59	0.68
1:AA:634:C:H2'	1:AA:635:G:H8	1.57	0.68
22:AV:45:U:H2'	22:AV:46:U:C6	2.28	0.68
23:AW:4:C:C2	23:AW:5:C:C4	2.82	0.68
23:AW:12:U:N3	23:AW:26:G:N2	2.31	0.68
23:AW:39:A:C4	23:AW:41:C:OP1	2.46	0.68
26:B1:45:ASN:HD21	35:BA:2090:G:N2	1.89	0.68
33:B8:39:LYS:HE2	33:B8:43:GLN:HE22	1.57	0.68
35:BA:843:G:O2'	35:BA:844:C:H5'	1.93	0.68
41:BG:27:ASN:C	41:BG:29:TRP:H	2.02	0.68
41:BG:31:VAL:HG13	41:BG:31:VAL:O	1.94	0.68
43:BI:93:THR:H	43:BI:96:ASP:HB2	1.58	0.68
43:BI:115:ALA:HB3	43:BI:128:LEU:HB3	1.76	0.68
49:BR:101:ALA:O	49:BR:102:GLU:HB2	1.92	0.68
51:BT:95:ARG:HB3	51:BT:95:ARG:HH11	1.58	0.68
53:BV:39:LEU:O	53:BV:40:LEU:HB2	1.93	0.68
53:BV:51:VAL:HG12	53:BV:52:VAL:N	2.08	0.68
1:CA:630:G:H2'	1:CA:631:G:H5"	1.75	0.68
1:CA:685:G:O2'	1:CA:686:U:H5'	1.94	0.68
1:CA:939:G:H5"	7:CG:102:ARG:CZ	2.24	0.68
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.07	0.68
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.06	0.68
2:CB:140:HIS:CA	2:CB:143:GLU:HG2	2.23	0.68
8:CH:9:MET:O	8:CH:13:ILE:HG12	1.94	0.68
23:CW:20:G:C3'	23:CW:21:U:H5"	2.23	0.68
22:CY:62:U:C2'	57:DZ:186:GLU:CG	2.62	0.68
33:D8:50:LEU:O	33:D8:51:ALA:HB3	1.93	0.68
35:DA:142:A:H5"	35:DA:142(A):C:H5	1.58	0.68
35:DA:389:G:N1	47:DP:71:VAL:HG12	2.08	0.68
35:DA:1506:C:O2	35:DA:1506:C:H2'	1.94	0.68
43:DI:115:ALA:HB3	43:DI:128:LEU:HB3	1.76	0.68
45:DN:17:ASP:OD2	45:DN:56:ASN:HB3	1.94	0.68
45:DN:62:VAL:CG2	45:DN:66:LYS:HB2	2.24	0.68
54:DW:29:LEU:HD21	54:DW:33:ARG:HH21	1.58	0.68
1:AA:56:U:H2'	1:AA:57:G:H8	1.59	0.67
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.93	0.67
4:AD:96:LEU:HG	4:AD:139:ARG:HH22	1.59	0.67
5:AE:150:ARG:O	5:AE:153:LYS:HG2	1.93	0.67
11:AK:126:ARG:HB3	11:AK:126:ARG:NH1	2.10	0.67
12:AL:47:LYS:NZ	12:AL:48:PRO:HD3	2.07	0.67
12:AL:93:LEU:O	12:AL:96:VAL:HB	1.93	0.67
15:AO:17:ARG:HG2	15:AO:21:ASP:OD2	1.94	0.67
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.75	0.67
31:B6:15:GLU:HB2	31:B6:49:HIS:CE1	2.29	0.67
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.10	0.67
35:BA:626:U:N3	47:BP:105:LEU:HG	2.09	0.67
42:BH:41:MET:CG	42:BH:43:VAL:HG13	2.25	0.67
46:BO:88:ASN:ND2	46:BO:90:GLN:HB2	2.05	0.67
51:BT:54:ARG:HA	51:BT:59:THR:HB	1.75	0.67
1:CA:692:U:OP1	11:CK:124:LYS:HE2	1.93	0.67
10:CJ:81:THR:C	10:CJ:83:GLU:H	2.02	0.67
12:CL:22:SER:C	12:CL:24:VAL:H	2.01	0.67
12:CL:46:LYS:HD3	12:CL:92:ASP:C	2.18	0.67
13:CM:91:ARG:NH2	13:CM:100:GLY:HA2	2.08	0.67
20:CT:100:ILE:O	20:CT:100:ILE:HG23	1.93	0.67
23:CW:16:U:H1'	23:CW:62:U:C4'	2.23	0.67
33:D8:39:LYS:HE2	33:D8:43:GLN:HE22	1.57	0.67
35:DA:626:U:N3	47:DP:105:LEU:HG	2.09	0.67
35:DA:996:A:H4'	52:DU:92:ARG:NE	2.10	0.67
53:DV:51:VAL:HG12	53:DV:52:VAL:N	2.09	0.67
1:AA:356:A:H1'	1:AA:368:U:O2'	1.94	0.67
1:AA:1370:G:H5"	9:AI:12:GLU:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:29:A:O2'	23:AW:30:U:H5'	1.94	0.67
22:AY:12:U:C2	22:AY:26:G:N2	2.62	0.67
45:BN:17:ASP:OD2	45:BN:56:ASN:HB3	1.93	0.67
49:BR:8:ARG:O	49:BR:10:LEU:HG	1.94	0.67
49:BR:100:LEU:HD22	49:BR:100:LEU:H	1.59	0.67
55:BX:12:VAL:CG2	55:BX:17:ALA:HB1	2.23	0.67
56:BY:31:LEU:N	56:BY:31:LEU:HD22	2.09	0.67
57:BZ:150:LEU:O	57:BZ:171:ILE:HG23	1.95	0.67
22:CV:19:G:N2	22:CV:59:G:H2'	2.10	0.67
22:CY:70:G:H2'	22:CY:71:G:C8	2.28	0.67
38:DD:24:ILE:CD1	38:DD:25:THR:H	2.08	0.67
38:DD:49:ILE:HD11	38:DD:52:ARG:HA	1.74	0.67
39:DE:18:ASP:OD2	51:DT:39:ARG:HD2	1.94	0.67
39:DE:69:LYS:NZ	39:DE:89:ASP:HA	2.09	0.67
41:DG:112:PRO:C	41:DG:113:ARG:HA	2.18	0.67
53:DV:21:ARG:HD3	53:DV:21:ARG:N	2.09	0.67
56:DY:14:LEU:HD11	56:DY:22:GLY:HA2	1.76	0.67
10:AJ:70:ARG:HH11	10:AJ:70:ARG:HG2	1.60	0.67
22:AV:6:C:N3	22:AV:69:G:O6	2.26	0.67
29:B4:5:ILE:HD11	41:BG:67:LYS:NZ	2.09	0.67
33:B8:25:MET:HG3	47:BP:64:LYS:HB2	1.76	0.67
35:BA:881:G:H2'	35:BA:882:G:O4'	1.94	0.67
35:BA:1173:G:H3'	35:BA:1174:A:C5'	2.25	0.67
44:BJ:70:UNK:C	44:BJ:72:UNK:N	2.56	0.67
52:BU:88:ILE:C	52:BU:90:VAL:H	2.00	0.67
53:BV:2:PHE:HB2	53:BV:42:GLY:HA2	1.75	0.67
3:CC:88:ARG:HA	3:CC:91:LEU:HD12	1.74	0.67
20:CT:75:ASN:N	20:CT:75:ASN:ND2	2.41	0.67
27:D2:28:LYS:HB3	27:D2:57:ILE:HD13	1.76	0.67
35:DA:1131:G:HO2'	35:DA:1132:A:H8	1.42	0.67
35:DA:2732:G:O2'	35:DA:2733:A:H5'	1.94	0.67
47:DP:55:ARG:CG	47:DP:56:SER:H	1.92	0.67
50:DS:19:LYS:HB3	50:DS:20:ARG:HH22	1.59	0.67
51:DT:34:VAL:HG12	51:DT:35:LYS:H	1.58	0.67
51:DT:88:ILE:HG22	51:DT:89:VAL:N	2.08	0.67
56:DY:29:GLU:N	56:DY:29:GLU:OE1	2.28	0.67
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.24	0.67
1:AA:1129:C:N4	1:AA:1135:U:H3	1.92	0.67
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.08	0.67
4:AD:98:GLU:HG3	4:AD:103:ASN:HD21	1.59	0.67
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:12:U:H5”	22:AV:13:U:OP2	1.94	0.67
22:AV:55:G:O2’	22:AV:56:U:H5’	1.95	0.67
25:B0:48:GLY:H	25:B0:51:VAL:HB	1.59	0.67
35:BA:89:G:H3’	35:BA:90:U:C5’	2.23	0.67
35:BA:594:U:H2’	35:BA:595:C:C6	2.28	0.67
35:BA:1019:U:O2’	35:BA:1021:A:H2	1.76	0.67
35:BA:1484:G:H2’	35:BA:1485:G:C5’	2.14	0.67
39:BE:61:ARG:C	39:BE:63:LEU:H	2.03	0.67
49:BR:13:HIS:CE1	49:BR:15:SER:HB3	2.30	0.67
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.76	0.67
4:CD:98:GLU:HG3	4:CD:103:ASN:HD21	1.58	0.67
32:D7:11:LYS:HE2	35:DA:686:G:H5”	1.76	0.67
35:DA:1542:A:N7	35:DA:1544:A:H5”	2.09	0.67
35:DA:2175:C:H4’	37:DC:219:MET:O	1.94	0.67
38:DD:79:VAL:HG21	38:DD:111:LEU:HD11	1.75	0.67
40:DF:3:GLU:O	40:DF:19:GLU:HB2	1.95	0.67
42:DH:153:LYS:H	42:DH:153:LYS:CD	2.07	0.67
43:DI:29:TYR:C	43:DI:32:PRO:HD2	2.20	0.67
48:DQ:57:HIS:NE2	48:DQ:116:GLU:HG3	2.09	0.67
1:AA:90:U:H4’	1:AA:91:C:H6	1.58	0.67
1:AA:1152:A:H5”	10:AJ:13:HIS:HD2	1.58	0.67
22:AY:57:U:H6	57:BZ:182:LYS:C	1.96	0.67
26:B1:59:THR:O	26:B1:91:LYS:HE3	1.93	0.67
27:B2:17:SER:H	27:B2:67:LYS:NZ	1.92	0.67
33:B8:49:VAL:HG12	35:BA:2360:A:OP1	1.95	0.67
35:BA:2313:C:H2’	35:BA:2314:C:C6	2.28	0.67
35:BA:2712:U:H1’	35:BA:2712(A):A:C8	2.29	0.67
37:BC:7:ARG:HD2	37:BC:35:THR:O	1.94	0.67
42:BH:156:ALA:O	42:BH:157:TYR:C	2.38	0.67
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.20	0.67
51:BT:88:ILE:HG22	51:BT:89:VAL:N	2.09	0.67
1:CA:90:U:H4’	1:CA:91:C:H6	1.58	0.67
1:CA:1144:G:H21	1:CA:1146:A:N6	1.92	0.67
1:CA:1196:U:C2	24:CX:23:A:C2	2.82	0.67
1:CA:1321:C:H5’	1:CA:1322:C:H5”	1.76	0.67
23:CW:71:G:C2’	23:CW:72:C:H5’	2.23	0.67
35:DA:1169:G:H1	35:DA:1180:C:H42	1.40	0.67
35:DA:1518:U:H2’	35:DA:1519:G:O4’	1.95	0.67
35:DA:2691:C:H5’	35:DA:2691:C:H6	1.59	0.67
41:DG:118:ARG:O	41:DG:181:ARG:HB2	1.95	0.67
49:DR:84:ALA:HB3	49:DR:85:PRO:HD3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	1.75	0.67
5:AE:105:VAL:HB	5:AE:106:PRO:CD	2.25	0.67
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.25	0.67
10:AJ:51:ARG:HE	10:AJ:61:GLU:HB2	1.60	0.67
10:AJ:63:PHE:HD1	14:AN:58:LYS:HA	1.59	0.67
13:AM:112:GLY:O	13:AM:113:PRO:HG2	1.95	0.67
23:AW:39:A:C2'	23:AW:41:C:OP2	2.43	0.67
35:BA:597:U:H4'	47:BP:15:ARG:NH1	2.09	0.67
35:BA:672:C:C2'	35:BA:673:C:H5"	2.25	0.67
35:BA:1542:A:N7	35:BA:1544:A:H5"	2.09	0.67
35:BA:2189:U:C2'	35:BA:2190:G:H5"	2.25	0.67
35:BA:2755:C:HO2'	35:BA:2756:U:H6	1.40	0.67
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.09	0.67
39:BE:68:ALA:O	39:BE:70:ALA:N	2.25	0.67
42:BH:154:PRO:O	42:BH:156:ALA:N	2.28	0.67
46:BO:4:PRO:O	46:BO:5:GLN:HB2	1.94	0.67
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.76	0.67
1:CA:1015:A:H1'	1:CA:1218:C:O2'	1.95	0.67
5:CE:61:TYR:O	5:CE:64:ARG:HB3	1.95	0.67
7:CG:84:ASN:HD21	23:CW:36:C:H42	1.41	0.67
10:CJ:49:VAL:HG21	14:CN:41:ARG:HB2	1.76	0.67
13:CM:15:VAL:HG23	13:CM:16:ASP:H	1.58	0.67
13:CM:23:TYR:CE2	13:CM:70:LEU:HD22	2.30	0.67
23:CW:25:A:H2'	23:CW:26:G:N7	2.09	0.67
35:DA:32:C:O2'	35:DA:33:U:H5'	1.94	0.67
38:DD:24:ILE:HD13	38:DD:25:THR:H	1.59	0.67
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.75	0.67
1:AA:630:G:H2'	1:AA:631:G:H5"	1.75	0.67
18:AR:56:THR:HB	18:AR:58:LEU:CD1	2.25	0.67
22:AY:19:G:H21	22:AY:59:G:H2'	1.59	0.67
35:BA:874:G:C5'	57:BZ:175:VAL:HG11	2.16	0.67
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.37	0.67
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.12	0.67
35:BA:2111:C:H1'	35:BA:2118:U:O4'	1.95	0.67
38:BD:24:ILE:CD1	38:BD:25:THR:H	2.08	0.67
45:BN:62:VAL:CG2	45:BN:66:LYS:HB2	2.25	0.67
51:BT:16:ARG:HH12	51:BT:19:LEU:HD21	1.59	0.67
1:CA:878:G:C5'	8:CH:89:PRO:HG2	2.25	0.67
1:CA:997:U:H2'	1:CA:998:G:C8	2.30	0.67
3:CC:103:VAL:HG12	3:CC:104:GLN:N	2.10	0.67
5:CE:76:ILE:HD11	5:CE:142:LEU:CD1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.58	0.67
9:CI:28:VAL:HA	9:CI:63:ILE:O	1.95	0.67
35:DA:154(A):C:H3'	35:DA:155:U:C5'	2.25	0.67
35:DA:2463:C:O2'	35:DA:2464:C:H5'	1.95	0.67
41:DG:48:GLU:O	41:DG:49:ASP:HB2	1.93	0.67
49:DR:8:ARG:O	49:DR:10:LEU:HG	1.94	0.67
51:DT:54:ARG:HA	51:DT:59:THR:HB	1.77	0.67
53:DV:89:GLN:OE1	53:DV:90:PRO:HD2	1.94	0.67
57:DZ:39:VAL:HG23	57:DZ:40:ASP:N	2.10	0.67
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.10	0.67
6:AF:28:ARG:HH11	6:AF:28:ARG:HG3	1.60	0.67
6:AF:45:LEU:HD21	6:AF:57:GLN:OE1	1.95	0.67
8:AH:9:MET:O	8:AH:13:ILE:HG12	1.95	0.67
23:AW:49:G:OP1	23:AW:49:G:H8	1.78	0.67
27:B2:3:LEU:O	27:B2:7:ARG:HG3	1.94	0.67
27:B2:69:ARG:HH11	27:B2:69:ARG:HG2	1.60	0.67
33:B8:30:ARG:HA	33:B8:30:ARG:HE	1.59	0.67
33:B8:50:LEU:O	33:B8:51:ALA:HB3	1.94	0.67
34:B9:3:VAL:HG21	35:BA:2539:C:H5'	1.76	0.67
35:BA:545:C:C3'	35:BA:547:A:H5"	2.23	0.67
35:BA:779:U:OP1	38:BD:49:ILE:HG22	1.95	0.67
35:BA:1542:A:H5'	35:BA:1543:C:OP2	1.95	0.67
35:BA:2724:C:P	49:BR:2:ARG:HH22	2.18	0.67
53:BV:47:VAL:HB	53:BV:49:THR:O	1.94	0.67
56:BY:28:LYS:O	56:BY:38:ILE:HB	1.95	0.67
56:BY:84:ARG:HH11	56:BY:84:ARG:HG2	1.58	0.67
57:BZ:81:ARG:HB3	57:BZ:81:ARG:NH1	2.09	0.67
1:CA:356:A:H1'	1:CA:368:U:O2'	1.95	0.67
1:CA:1104:G:O2'	1:CA:1105:A:H5'	1.95	0.67
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.94	0.67
11:CK:20:TYR:HB2	11:CK:31:THR:HG22	1.76	0.67
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.28	0.67
48:DQ:10:ARG:HH11	48:DQ:10:ARG:HB2	1.60	0.67
55:DX:70:LEU:HD23	55:DX:71:GLY:N	2.09	0.67
1:AA:1502:A:H2	1:AA:1505:G:N1	1.93	0.67
3:AC:103:VAL:HG12	3:AC:104:GLN:N	2.10	0.67
5:AE:76:ILE:HD11	5:AE:142:LEU:CD1	2.24	0.67
6:AF:45:LEU:HD23	6:AF:46:ARG:N	2.09	0.67
17:AQ:55:ASP:HA	17:AQ:79:SER:HA	1.76	0.67
32:B7:8:ASN:C	32:B7:8:ASN:ND2	2.51	0.67
35:BA:2491:U:H5'	35:BA:2570:G:C5'	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:132:VAL:HG22	40:BF:133:ASN:ND2	2.10	0.67
41:BG:39:ILE:HG13	41:BG:92:VAL:HG12	1.74	0.67
43:BI:94:ALA:O	43:BI:98:ALA:HB3	1.95	0.67
56:BY:26:LYS:HG2	56:BY:27:VAL:H	1.59	0.67
1:CA:1116:C:C3'	1:CA:1117:G:H5"	2.25	0.67
1:CA:1281:U:H5'	1:CA:1282:C:C5	2.30	0.67
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.60	0.67
4:CD:26:CYS:HG	58:CD:1000:ZN:ZN	1.07	0.67
4:CD:59:ARG:HE	4:CD:59:ARG:CA	2.03	0.67
4:CD:129:ASN:ND2	4:CD:145:GLU:H	1.93	0.67
7:CG:22:LEU:O	7:CG:22:LEU:HD23	1.95	0.67
12:CL:37:CYS:HA	12:CL:58:VAL:HG22	1.77	0.67
14:CN:40:CYS:HG	14:CN:43:CYS:HG	1.37	0.67
20:CT:50:GLU:HA	20:CT:100:ILE:HG21	1.77	0.67
22:CV:55:G:O2'	22:CV:56:U:H5'	1.95	0.67
22:CY:69:G:C6	22:CY:70:G:C5	2.83	0.67
35:DA:1188:U:O2'	35:DA:1189:A:H5'	1.95	0.67
46:DO:122:LEU:HD22	51:DT:43:GLN:NE2	2.10	0.67
47:DP:47:ASP:HB3	47:DP:48:PRO:C	2.20	0.67
1:AA:359:U:H2'	1:AA:360:A:C8	2.30	0.67
1:AA:545:C:H5"	4:AD:72:GLU:HG2	1.76	0.67
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.12	0.67
26:B1:53:VAL:CG2	26:B1:74:VAL:HG13	2.25	0.67
29:B4:5:ILE:HD11	41:BG:67:LYS:HZ3	1.60	0.67
33:B8:37:SER:C	33:B8:39:LYS:N	2.50	0.67
38:BD:242:ARG:HD2	38:BD:242:ARG:N	2.10	0.67
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.20	0.67
41:BG:51:ARG:HE	41:BG:51:ARG:CA	2.02	0.67
42:BH:44:VAL:O	42:BH:46:GLU:N	2.28	0.67
43:BI:123:LEU:HD11	43:BI:144:VAL:HG22	1.76	0.67
12:CL:35:GLY:CA	12:CL:58:VAL:HG11	2.25	0.67
20:CT:18:GLN:HE21	20:CT:22:ARG:NH1	1.92	0.67
21:CU:23:PRO:C	21:CU:25:LYS:H	2.03	0.67
22:CV:42:C:O2'	22:CV:43:G:H5'	1.95	0.67
22:CY:57:U:O4'	57:DZ:182:LYS:HB3	1.94	0.67
35:DA:276:A:H5'	35:DA:277:C:C6	2.30	0.67
35:DA:1542:A:H5'	35:DA:1543:C:OP2	1.95	0.67
35:DA:1887:C:C3'	35:DA:1888:G:H5"	2.25	0.67
37:DC:7:ARG:HD2	37:DC:35:THR:O	1.95	0.67
41:DG:63:ILE:HA	41:DG:143:GLU:HG2	1.77	0.67
46:DO:15:GLY:O	46:DO:47:ILE:HG22	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:84:ASN:HA	47:DP:115:LEU:O	1.94	0.67
51:DT:30:VAL:CG2	51:DT:84:GLN:HG3	2.25	0.67
57:DZ:121:HIS:HB2	57:DZ:171:ILE:HA	1.75	0.67
57:DZ:155:LEU:H	57:DZ:155:LEU:HD23	1.60	0.67
1:AA:997:U:H2'	1:AA:998:G:C8	2.30	0.66
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.59	0.66
1:AA:1116:C:C3'	1:AA:1117:G:H5"	2.24	0.66
6:AF:101:ALA:HA	18:AR:28:GLU:HG2	1.77	0.66
16:AP:21:VAL:HG12	16:AP:34:GLU:O	1.94	0.66
23:AW:52:C:H2'	23:AW:53:U:H6	1.59	0.66
23:AW:52:C:C2	23:AW:53:U:C5	2.83	0.66
28:B3:44:ARG:O	28:B3:48:GLU:HG2	1.95	0.66
35:BA:2405:G:O2'	35:BA:2411:A:N6	2.27	0.66
50:BS:19:LYS:HB3	50:BS:20:ARG:HH22	1.60	0.66
52:BU:95:LEU:C	52:BU:97:ASP:H	2.02	0.66
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.76	0.66
1:CA:979:C:H3'	1:CA:980:C:C5'	2.20	0.66
1:CA:1001(A):G:H2'	1:CA:1002:G:O4'	1.95	0.66
3:CC:23:TYR:HA	10:CJ:11:PHE:CE2	2.30	0.66
11:CK:54:ARG:O	11:CK:57:THR:HG22	1.94	0.66
16:CP:68:ASP:C	16:CP:70:ALA:H	2.01	0.66
22:CV:15:G:H2'	22:CV:16:U:C6	2.30	0.66
22:CY:60:A:C6	57:DZ:184:ALA:CA	2.64	0.66
35:DA:813:U:H2'	35:DA:814:C:C6	2.31	0.66
35:DA:1490:A:H5'	35:DA:1491:G:OP2	1.95	0.66
41:DG:51:ARG:NE	41:DG:51:ARG:HA	2.11	0.66
41:DG:152:LEU:HD23	41:DG:152:LEU:N	2.09	0.66
47:DP:107:LYS:C	47:DP:109:GLY:H	2.02	0.66
49:DR:67:LEU:HD22	49:DR:76:VAL:HG21	1.75	0.66
53:DV:39:LEU:HD12	53:DV:47:VAL:HG11	1.77	0.66
1:AA:1256:A:H61	1:AA:1278:U:C1'	2.08	0.66
6:AF:8:ILE:HG22	6:AF:9:VAL:N	2.10	0.66
9:AI:29:ASN:OD1	9:AI:64:THR:HG23	1.95	0.66
16:AP:43:LYS:C	16:AP:45:THR:H	2.04	0.66
22:AY:55:G:H2'	22:AY:56:U:C1'	2.26	0.66
35:BA:607:U:OP1	40:BF:102:PRO:HA	1.94	0.66
35:BA:1014:U:H2'	35:BA:1015:G:C5'	2.26	0.66
35:BA:2679:A:H4'	39:BE:165:VAL:HG11	1.77	0.66
41:BG:124:SER:HB2	41:BG:131:TYR:HE1	1.57	0.66
43:BI:47:LEU:O	43:BI:51:ILE:HG12	1.94	0.66
56:BY:31:LEU:HB2	56:BY:32:PRO:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:24:LEU:HB2	57:BZ:41:LEU:HG	1.75	0.66
57:BZ:111:VAL:HG12	57:BZ:111:VAL:O	1.96	0.66
57:BZ:184:ALA:O	57:BZ:186:GLU:HG3	1.95	0.66
1:CA:942:G:H21	9:CI:124:GLN:NE2	1.93	0.66
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.25	0.66
2:CB:18:GLY:H	2:CB:42:ILE:CG2	2.07	0.66
4:CD:96:LEU:HG	4:CD:139:ARG:HH22	1.59	0.66
5:CE:39:GLY:HA2	5:CE:69:VAL:HB	1.77	0.66
10:CJ:38:ILE:HG12	10:CJ:71:LEU:O	1.94	0.66
22:CY:71:G:C6	22:CY:72:C:C5	2.83	0.66
33:D8:13:ARG:HD2	47:DP:61:ARG:HD3	1.77	0.66
33:D8:51:ALA:C	33:D8:53:PRO:HD2	2.20	0.66
35:DA:597:U:H4'	47:DP:15:ARG:NH1	2.09	0.66
35:DA:1486:A:H61	35:DA:1504:C:H42	1.43	0.66
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.59	0.66
41:DG:45:GLU:C	41:DG:88:ILE:HG13	2.20	0.66
46:DO:114:ILE:HD12	46:DO:114:ILE:N	2.11	0.66
52:DU:95:LEU:C	52:DU:97:ASP:H	2.02	0.66
56:DY:2:ARG:N	56:DY:4:LYS:HE2	2.10	0.66
56:DY:28:LYS:HZ1	56:DY:28:LYS:H	1.39	0.66
23:AW:71:G:C6	23:AW:72:C:C5	2.83	0.66
22:AY:52:C:H2'	22:AY:53:U:H6	1.58	0.66
35:BA:1188:U:O2'	35:BA:1189:A:H5'	1.94	0.66
36:BB:92:C:H2'	36:BB:93:G:H8	1.59	0.66
39:BE:118:LYS:H	39:BE:121:ASN:H	1.43	0.66
44:BJ:22:UNK:O	44:BJ:119:UNK:HA	1.95	0.66
44:BJ:59:UNK:O	44:BJ:61:UNK:N	2.29	0.66
53:BV:39:LEU:HD12	53:BV:47:VAL:HG11	1.76	0.66
1:CA:37:U:O2'	1:CA:38:G:H5'	1.96	0.66
1:CA:69:G:H2'	1:CA:70:G:C8	2.31	0.66
1:CA:880:C:H2'	1:CA:881:G:H8	1.60	0.66
1:CA:1194:U:H2'	1:CA:1195:C:H6	1.60	0.66
1:CA:1422:G:H4'	46:DO:49:ARG:NH1	2.10	0.66
26:D1:82:LEU:HD22	26:D1:82:LEU:N	2.11	0.66
35:DA:672:C:C2'	35:DA:673:C:H5"	2.26	0.66
35:DA:1022:G:N2	35:DA:1142(A):A:H2	1.84	0.66
52:DU:90:VAL:CG2	53:DV:39:LEU:HG	2.24	0.66
1:AA:63:C:H42	1:AA:104:G:H1	1.43	0.66
1:AA:348:G:C2'	1:AA:349:A:H5'	2.25	0.66
1:AA:940:C:H2'	1:AA:941:G:H8	1.60	0.66
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:91:LEU:HD11	3:AC:101:LEU:HD12	1.76	0.66
4:AD:79:PHE:C	4:AD:79:PHE:HD1	2.03	0.66
20:AT:100:ILE:HG23	20:AT:100:ILE:O	1.94	0.66
26:B1:51:VAL:HG13	26:B1:58:ILE:CD1	2.25	0.66
33:B8:2:PRO:HA	35:BA:591:C:O2	1.95	0.66
35:BA:1719:G:C2'	35:BA:1720:U:H5'	2.25	0.66
35:BA:2590:A:O2'	35:BA:2591:C:H5'	1.95	0.66
41:BG:88:ILE:HG22	41:BG:89:GLY:N	2.09	0.66
43:BI:140:LEU:O	43:BI:141:LYS:HD3	1.94	0.66
47:BP:13:ASN:C	47:BP:13:ASN:HD22	2.01	0.66
47:BP:16:ARG:CZ	47:BP:18:ARG:HB2	2.25	0.66
56:BY:88:LYS:HD3	56:BY:93:GLY:H	1.60	0.66
1:CA:1275:A:H2'	1:CA:1276:G:H8	1.60	0.66
3:CC:77:ILE:HG23	3:CC:84:ILE:CG2	2.25	0.66
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.57	0.66
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.60	0.66
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.76	0.66
23:CW:7:U:N3	23:CW:69:G:C5	2.63	0.66
35:DA:141:A:C8	35:DA:1408:C:O2'	2.48	0.66
35:DA:662:G:OP1	47:DP:18:ARG:HD2	1.95	0.66
35:DA:2012:G:H4'	54:DW:96:ILE:HD11	1.78	0.66
39:DE:19:ARG:HA	46:DO:73:ASP:HA	1.76	0.66
39:DE:68:ALA:O	39:DE:70:ALA:N	2.23	0.66
40:DF:202:PHE:O	40:DF:206:ILE:HG12	1.95	0.66
41:DG:105:LYS:HB3	41:DG:142:PRO:HG3	1.77	0.66
56:DY:26:LYS:HG2	56:DY:27:VAL:H	1.59	0.66
57:DZ:10:ARG:HD2	57:DZ:36:LYS:HD3	1.76	0.66
57:DZ:121:HIS:CB	57:DZ:171:ILE:HG22	2.24	0.66
7:AG:22:LEU:O	7:AG:22:LEU:HD23	1.95	0.66
8:AH:54:ASP:C	8:AH:56:LYS:H	2.04	0.66
8:AH:97:VAL:HG21	8:AH:128:GLY:HA2	1.76	0.66
22:AV:63:C:H2'	22:AV:64:C:C6	2.30	0.66
35:BA:152:G:H1	35:BA:174:C:H42	1.43	0.66
35:BA:1542:A:H3'	35:BA:1542:A:C8	2.30	0.66
40:BF:63:LYS:NZ	40:BF:67:GLN:HB2	2.10	0.66
48:BQ:10:ARG:HB2	48:BQ:10:ARG:HH11	1.60	0.66
50:BS:99:LYS:O	50:BS:101:LEU:N	2.28	0.66
51:BT:29:ARG:HG2	51:BT:86:ILE:HG22	1.78	0.66
1:CA:397:A:H3'	1:CA:397:A:N3	2.10	0.66
1:CA:1054:C:O2'	1:CA:1055:A:OP2	2.14	0.66
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:79:PHE:C	4:CD:79:PHE:HD1	2.04	0.66
4:CD:157:LEU:HG	4:CD:161:ASN:HD21	1.60	0.66
12:CL:43:VAL:HG13	12:CL:55:VAL:HG21	1.77	0.66
35:DA:259:G:H21	35:DA:621:A:H8	1.43	0.66
35:DA:881:G:H2'	35:DA:882:G:O4'	1.94	0.66
35:DA:1019:U:O2'	35:DA:1021:A:H2	1.78	0.66
35:DA:1534:U:H2'	35:DA:1535:A:O4'	1.96	0.66
38:DD:27:THR:O	38:DD:27:THR:HG23	1.95	0.66
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.25	0.66
50:DS:41:ASP:OD2	50:DS:44:LYS:HG3	1.95	0.66
9:AI:28:VAL:HA	9:AI:63:ILE:O	1.95	0.66
30:B5:3:LYS:NZ	30:B5:5:PRO:HB2	2.10	0.66
31:B6:7:ILE:HG12	31:B6:29:ASN:HD21	1.60	0.66
35:BA:518:G:H4'	54:BW:18:ARG:NH1	2.11	0.66
35:BA:1113:U:H2'	35:BA:1114:G:C8	2.30	0.66
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.11	0.66
4:CD:18:LYS:HE2	4:CD:31:CYS:HB3	1.76	0.66
11:CK:34:ASP:N	11:CK:40:ILE:HD11	2.10	0.66
25:D0:36:ILE:HG23	35:DA:2354:G:O2'	1.95	0.66
28:D3:19:GLN:HE22	28:D3:52:HIS:HE1	1.43	0.66
35:DA:1014:U:H2'	35:DA:1015:G:C5'	2.26	0.66
35:DA:2192:G:H2'	35:DA:2193:G:H5"	1.77	0.66
35:DA:2300:G:H1	35:DA:2316:C:H42	1.44	0.66
37:DC:185:LYS:HE3	37:DC:185:LYS:N	2.10	0.66
53:DV:19:LYS:HE2	53:DV:19:LYS:HA	1.78	0.66
53:DV:38:LEU:O	53:DV:39:LEU:HD13	1.95	0.66
56:DY:81:LYS:HD2	56:DY:96:ILE:HG22	1.76	0.66
1:AA:191:G:H1'	20:AT:105:SER:HB3	1.76	0.66
1:AA:397:A:H3'	1:AA:397:A:N3	2.09	0.66
1:AA:1001(A):G:H2'	1:AA:1002:G:O4'	1.95	0.66
1:AA:1054:C:O2'	1:AA:1055:A:OP2	2.10	0.66
1:AA:1144:G:H21	1:AA:1146:A:N6	1.93	0.66
22:AV:14:A:C6	22:AV:24:A:C5	2.83	0.66
26:B1:29:GLY:HA3	35:BA:2396:G:O2'	1.95	0.66
35:BA:481:G:H1'	35:BA:506:G:H21	1.61	0.66
35:BA:1532:C:H2'	35:BA:1533:G:O4'	1.96	0.66
39:BE:19:ARG:HA	46:BO:73:ASP:HA	1.78	0.66
41:BG:68:PRO:HB2	41:BG:90:LEU:HG	1.78	0.66
50:BS:88:ASP:CG	50:BS:89:ARG:N	2.53	0.66
51:BT:34:VAL:O	51:BT:35:LYS:HB3	1.94	0.66
56:BY:46:LYS:H	56:BY:62:GLU:HB2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:72:ARG:NH2	57:BZ:97:GLU:O	2.29	0.66
1:CA:1256:A:H61	1:CA:1278:U:C1'	2.09	0.66
1:CA:1452:C:H4'	1:CA:1456:G:C5'	2.24	0.66
2:CB:15:VAL:CG2	2:CB:209:ARG:HH21	2.08	0.66
3:CC:58:GLU:HB2	3:CC:65:ALA:HB3	1.78	0.66
5:CE:72:GLN:C	5:CE:74:GLY:H	2.03	0.66
6:CF:8:ILE:HG22	6:CF:9:VAL:N	2.10	0.66
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.78	0.66
7:CG:53:LYS:O	7:CG:54:THR:HB	1.94	0.66
19:CS:22:LEU:O	19:CS:26:GLY:HA2	1.96	0.66
35:DA:2749:A:H4'	42:DH:62:LYS:HB3	1.78	0.66
38:DD:121:PRO:HB3	38:DD:135:PHE:HE2	1.60	0.66
40:DF:89:VAL:HG12	40:DF:90:PHE:H	1.57	0.66
42:DH:41:MET:CG	42:DH:43:VAL:HG13	2.25	0.66
51:DT:29:ARG:HG2	51:DT:86:ILE:HG22	1.78	0.66
51:DT:34:VAL:O	51:DT:35:LYS:HB3	1.94	0.66
53:DV:5:VAL:HG23	53:DV:37:VAL:HG23	1.78	0.66
1:AA:194:C:C2'	1:AA:195:A:H5"	2.25	0.66
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.31	0.66
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.77	0.66
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.59	0.66
8:AH:91:ARG:HH11	8:AH:91:ARG:HG2	1.59	0.66
12:AL:90:VAL:C	12:AL:92:ASP:H	2.04	0.66
26:B1:82:LEU:N	26:B1:82:LEU:HD22	2.11	0.66
35:BA:27:G:N2	35:BA:512:G:O2'	2.29	0.66
35:BA:545:C:H2'	35:BA:547:A:H4'	1.77	0.66
35:BA:996:A:H4'	52:BU:92:ARG:NE	2.11	0.66
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.30	0.66
39:BE:119:ARG:HG2	39:BE:160:TYR:HB2	1.76	0.66
41:BG:112:PRO:C	41:BG:113:ARG:HG2	2.20	0.66
46:BO:77:ILE:HD12	51:BT:73:GLU:O	1.95	0.66
48:BQ:57:HIS:NE2	48:BQ:116:GLU:HG3	2.11	0.66
53:BV:21:ARG:HB3	53:BV:91:TYR:HB2	1.78	0.66
57:BZ:33:LEU:HD12	57:BZ:34:ASN:H	1.59	0.66
1:CA:1320:C:H42	19:CS:36:ARG:HG3	1.59	0.66
2:CB:235:SER:HG	2:CB:236:TYR:HD1	1.44	0.66
4:CD:104:VAL:O	4:CD:108:LEU:HB2	1.95	0.66
8:CH:118:VAL:O	8:CH:119:LEU:HD23	1.94	0.66
9:CI:28:VAL:HG22	9:CI:63:ILE:HB	1.77	0.66
13:CM:49:THR:O	13:CM:53:VAL:HG23	1.95	0.66
13:CM:112:GLY:O	13:CM:113:PRO:HG2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CY:20:G:C8	22:CY:59:G:N2	2.63	0.66
22:CY:57:U:C5'	57:DZ:182:LYS:CB	2.64	0.66
26:D1:53:VAL:HG23	26:D1:74:VAL:HG13	1.78	0.66
28:D3:44:ARG:O	28:D3:48:GLU:HG2	1.95	0.66
33:D8:25:MET:HG3	47:DP:64:LYS:HB2	1.78	0.66
35:DA:706:A:C2	35:DA:707:G:H1'	2.31	0.66
35:DA:2401:U:O2'	35:DA:2402:C:H5"	1.96	0.66
35:DA:2523:G:H2'	35:DA:2524:G:C5'	2.23	0.66
40:DF:165:ARG:HH11	40:DF:165:ARG:HB3	1.60	0.66
42:DH:98:LEU:HB2	42:DH:125:VAL:HG21	1.77	0.66
43:DI:98:ALA:HB1	43:DI:109:ILE:HB	1.78	0.66
45:DN:3:THR:O	45:DN:5:VAL:N	2.28	0.66
47:DP:13:ASN:C	47:DP:13:ASN:HD22	2.04	0.66
51:DT:104:ASN:O	51:DT:105:LEU:C	2.39	0.66
55:DX:64:LYS:NZ	55:DX:73:ARG:HH21	1.90	0.66
1:AA:1033:G:C2'	1:AA:1034:G:H5'	2.26	0.66
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	1.95	0.66
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.31	0.66
5:AE:61:TYR:O	5:AE:64:ARG:HB3	1.95	0.66
7:AG:143:ARG:CZ	23:AW:44:A:H5"	2.26	0.66
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.95	0.66
10:AJ:38:ILE:HG12	10:AJ:71:LEU:O	1.95	0.66
12:AL:53:ARG:O	12:AL:55:VAL:HG13	1.96	0.66
25:B0:26:TYR:O	25:B0:29:GLN:HB2	1.96	0.66
32:B7:11:LYS:HE2	35:BA:686:G:H5"	1.78	0.66
33:B8:51:ALA:C	33:B8:53:PRO:HD2	2.21	0.66
35:BA:272(J):C:O2'	35:BA:274:G:H5'	1.95	0.66
35:BA:2175:C:H4'	37:BC:219:MET:O	1.96	0.66
35:BA:2300:G:H1	35:BA:2316:C:H42	1.42	0.66
56:BY:7:VAL:CG2	56:BY:8:LYS:NZ	2.58	0.66
56:BY:90:LEU:HG	56:BY:91:GLU:H	1.61	0.66
1:CA:359:U:H2'	1:CA:360:A:C8	2.30	0.66
1:CA:991:U:O2	1:CA:993:G:H8	1.79	0.66
1:CA:1033:G:H2'	1:CA:1034:G:H5'	1.78	0.66
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.31	0.66
2:CB:166:ASP:CG	2:CB:169:LYS:HB2	2.20	0.66
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.59	0.66
26:D1:44:PRO:HB2	26:D1:46:LEU:HD13	1.77	0.66
27:D2:47:ASN:O	27:D2:49:LYS:N	2.27	0.66
28:D3:12:PRO:HB2	28:D3:20:LYS:HG2	1.77	0.66
31:D6:7:ILE:HG12	31:D6:29:ASN:HD21	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:152:G:H1	35:DA:174:C:H42	1.44	0.66
35:DA:1173:G:H3'	35:DA:1174:A:C5'	2.25	0.66
47:DP:48:PRO:HG2	47:DP:49:ARG:N	2.07	0.66
50:DS:89:ARG:HG2	50:DS:92:TYR:HA	1.77	0.66
56:DY:95:LYS:HG2	56:DY:101:LYS:H	1.59	0.66
1:AA:309:G:H1'	1:AA:608:A:C2	2.31	0.66
2:AB:233:SER:CB	2:AB:234:PRO:HD2	2.26	0.66
12:AL:25:PRO:C	12:AL:27:LEU:H	2.04	0.66
13:AM:57:ARG:HH12	29:B4:34:GLU:HA	1.61	0.66
27:B2:10:LEU:O	27:B2:14:ARG:HG3	1.96	0.66
35:BA:2192:G:H2'	35:BA:2193:G:H5"	1.78	0.66
41:BG:46:ALA:HB3	41:BG:82:LEU:CD1	2.26	0.66
42:BH:7:LEU:CD2	42:BH:69:ARG:HD2	2.19	0.66
51:BT:30:VAL:HG21	51:BT:84:GLN:HG3	1.78	0.66
55:BX:70:LEU:HD23	55:BX:71:GLY:N	2.10	0.66
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.25	0.66
5:CE:73:ASN:N	5:CE:73:ASN:ND2	2.43	0.66
10:CJ:70:ARG:HH11	10:CJ:70:ARG:HG2	1.60	0.66
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.10	0.66
18:CR:40:LEU:H	18:CR:40:LEU:HD12	1.60	0.66
29:D4:1:MET:H2	36:DB:43:C:H5'	1.61	0.66
35:DA:545:C:H2'	35:DA:547:A:H4'	1.76	0.66
35:DA:1899:G:N2	35:DA:1902:C:N4	2.24	0.66
35:DA:2472:G:H3'	35:DA:2475:C:N4	2.10	0.66
41:DG:104:GLU:C	41:DG:106:LEU:H	2.04	0.66
43:DI:62:LYS:HD2	43:DI:133:HIS:HD2	1.59	0.66
51:DT:54:ARG:HH11	51:DT:54:ARG:HG2	1.61	0.66
56:DY:89:PHE:C	56:DY:90:LEU:HD23	2.21	0.66
1:AA:591:U:H2'	1:AA:592:G:C8	2.31	0.65
1:AA:1422:G:H4'	46:BO:49:ARG:HH12	1.61	0.65
2:AB:15:VAL:CG2	2:AB:209:ARG:HH21	2.08	0.65
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.78	0.65
11:AK:34:ASP:N	11:AK:40:ILE:HD11	2.11	0.65
12:AL:40:VAL:CG2	12:AL:78:GLN:O	2.44	0.65
16:AP:20:VAL:HG23	16:AP:34:GLU:O	1.95	0.65
23:AW:47:G:O2'	23:AW:48:G:H5'	1.95	0.65
23:AW:71:G:N1	23:AW:72:C:C6	2.64	0.65
35:BA:1518:U:H2'	35:BA:1519:G:O4'	1.95	0.65
35:BA:2401:U:O2'	35:BA:2402:C:H5"	1.96	0.65
35:BA:2477:C:H5'	35:BA:2477:C:H6	1.61	0.65
36:BB:31:C:H2'	36:BB:53:A:H61	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:118:ARG:H	41:BG:181:ARG:HH21	1.43	0.65
41:BG:137:GLU:HG2	41:BG:152:LEU:HD12	1.78	0.65
47:BP:38:GLN:CG	47:BP:39:LYS:H	2.02	0.65
53:BV:21:ARG:N	53:BV:21:ARG:HD3	2.11	0.65
1:CA:1196:U:C5	24:CX:23:A:C5	2.82	0.65
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.26	0.65
12:CL:38:THR:HG23	12:CL:39:VAL:H	1.60	0.65
16:CP:21:VAL:HG12	16:CP:34:GLU:O	1.96	0.65
22:CV:24:A:N6	22:CV:48:G:N2	2.43	0.65
22:CV:39:A:H2'	22:CV:40:A:H8	1.60	0.65
23:CW:33:G:H2'	23:CW:34:C:C1'	2.25	0.65
35:DA:621:A:H2'	35:DA:622:G:H5'	1.78	0.65
35:DA:622:G:O2'	35:DA:623:G:H5'	1.95	0.65
36:DB:57:A:C4	41:DG:29:TRP:HB3	2.31	0.65
37:DC:182:PRO:HB2	37:DC:185:LYS:HD2	1.78	0.65
41:DG:27:ASN:OD1	41:DG:29:TRP:HB2	1.96	0.65
50:DS:52:SER:HB2	50:DS:55:ALA:HB3	1.78	0.65
52:DU:28:ARG:HD3	52:DU:38:THR:OG1	1.96	0.65
57:DZ:27:VAL:HG23	57:DZ:36:LYS:HA	1.78	0.65
1:AA:422:C:H1'	1:AA:423:G:N2	2.11	0.65
1:AA:1309:G:H2'	1:AA:1310:G:H8	1.61	0.65
3:AC:43:LEU:HD21	3:AC:91:LEU:HD21	1.78	0.65
12:AL:35:GLY:CA	12:AL:58:VAL:HG11	2.23	0.65
22:AV:43:G:C6	22:AV:44:A:C5	2.84	0.65
23:AW:10:G:C4	23:AW:11:C:C5	2.84	0.65
23:AW:25:A:C3'	23:AW:26:G:C8	2.79	0.65
22:AY:28:G:C2	22:AY:29:A:C5	2.85	0.65
33:B8:56:GLU:HA	33:B8:59:LYS:NZ	2.11	0.65
33:B8:61:LEU:CD1	33:B8:62:LEU:H	2.09	0.65
37:BC:185:LYS:HE3	37:BC:185:LYS:N	2.12	0.65
47:BP:39:LYS:HD2	47:BP:40:SER:H	1.61	0.65
47:BP:80:TYR:CZ	47:BP:111:ARG:HD3	2.30	0.65
51:BT:27:THR:HG23	51:BT:28:VAL:N	2.12	0.65
1:CA:309:G:H1'	1:CA:608:A:C2	2.31	0.65
1:CA:1406:U:H2'	1:CA:1407:C:H6	1.60	0.65
2:CB:189:ASP:C	2:CB:191:ASP:H	2.02	0.65
3:CC:43:LEU:HD21	3:CC:91:LEU:HD21	1.77	0.65
5:CE:105:VAL:HB	5:CE:106:PRO:CD	2.26	0.65
6:CF:76:ALA:HB1	6:CF:80:ARG:HH21	1.61	0.65
12:CL:90:VAL:C	12:CL:92:ASP:H	2.03	0.65
26:D1:82:LEU:HD22	26:D1:82:LEU:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.21	0.65
33:D8:61:LEU:CD1	33:D8:62:LEU:H	2.09	0.65
35:DA:1113:U:H2'	35:DA:1114:G:C8	2.31	0.65
40:DF:164:ARG:HH11	40:DF:164:ARG:HG2	1.61	0.65
41:DG:51:ARG:HA	41:DG:51:ARG:HE	1.61	0.65
47:DP:18:ARG:HH11	47:DP:18:ARG:HB3	1.61	0.65
47:DP:80:TYR:CZ	47:DP:111:ARG:HD3	2.31	0.65
1:AA:685:G:O2'	1:AA:686:U:H5'	1.95	0.65
2:AB:132:LYS:HA	2:AB:135:GLN:HE21	1.62	0.65
4:AD:157:LEU:HG	4:AD:161:ASN:ND2	2.12	0.65
13:AM:49:THR:O	13:AM:53:VAL:HG23	1.95	0.65
22:AV:12:U:O2	22:AV:13:U:H1'	1.96	0.65
23:AW:70:G:C4	23:AW:71:G:C8	2.84	0.65
28:B3:12:PRO:HB2	28:B3:20:LYS:HG2	1.79	0.65
35:BA:1916:A:H8	35:BA:1916:A:H5'	1.61	0.65
35:BA:2132:U:O4	37:BC:6:LYS:HB2	1.96	0.65
35:BA:2762:G:H2'	35:BA:2763:G:H5'	1.77	0.65
40:BF:89:VAL:HG12	40:BF:90:PHE:H	1.61	0.65
41:BG:82:LEU:C	41:BG:83:ARG:HG3	2.20	0.65
41:BG:107:LEU:HD11	41:BG:178:PHE:CE1	2.31	0.65
41:BG:116:ASP:O	41:BG:117:PHE:HB3	1.95	0.65
41:BG:122:PRO:HG2	41:BG:123:ASN:H	1.60	0.65
41:BG:134:GLY:C	41:BG:135:LEU:HD12	2.21	0.65
47:BP:59:LEU:CA	47:BP:61:ARG:NH1	2.56	0.65
51:BT:80:SER:HB3	51:BT:81:PRO:CD	2.26	0.65
1:CA:950:U:H2'	1:CA:951:G:C8	2.32	0.65
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	1.96	0.65
7:CG:140:ASP:O	7:CG:144:MET:HG2	1.96	0.65
13:CM:116:THR:HG21	22:CV:31:C:H4'	1.79	0.65
22:CV:33:G:C5	22:CV:34:C:C5	2.85	0.65
29:D4:53:GLU:OE1	29:D4:55:ARG:HG3	1.96	0.65
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.10	0.65
35:DA:286:C:H2'	35:DA:287:C:H6	1.61	0.65
35:DA:528:A:N1	35:DA:2042:A:H2'	2.11	0.65
35:DA:2132:U:O4	37:DC:6:LYS:HB2	1.96	0.65
37:DC:44:VAL:HG13	37:DC:215:VAL:HG22	1.79	0.65
41:DG:135:LEU:HD13	41:DG:155:MET:HG3	1.79	0.65
43:DI:126:TYR:H	43:DI:140:LEU:CD2	2.08	0.65
50:DS:106:ARG:O	50:DS:106:ARG:HD2	1.97	0.65
53:DV:21:ARG:HB3	53:DV:91:TYR:HB2	1.77	0.65
1:AA:950:U:H2'	1:AA:951:G:C8	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.97	0.65
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.11	0.65
20:AT:53:LEU:HD12	20:AT:100:ILE:HG23	1.77	0.65
23:AW:33:G:H2'	23:AW:34:C:O4'	1.96	0.65
23:AW:57:U:H2'	23:AW:59:G:OP2	1.97	0.65
22:AY:63:C:O4'	57:BZ:186:GLU:HB3	1.95	0.65
35:BA:1750:G:O2'	35:BA:1751:C:H5'	1.96	0.65
43:BI:72:LEU:O	43:BI:138:ILE:HD12	1.95	0.65
50:BS:52:SER:HB2	50:BS:55:ALA:HB3	1.79	0.65
52:BU:112:ARG:HH12	53:BV:46:VAL:HG11	1.58	0.65
57:BZ:54:HIS:HB3	57:BZ:101:PRO:HD3	1.78	0.65
1:CA:422:C:H1'	1:CA:423:G:N2	2.10	0.65
1:CA:959:A:H3'	1:CA:960:U:H5"	1.78	0.65
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.31	0.65
1:CA:1309:G:H2'	1:CA:1310:G:H8	1.62	0.65
2:CB:140:HIS:HA	2:CB:143:GLU:CG	2.25	0.65
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.25	0.65
12:CL:41:ARG:HB3	12:CL:41:ARG:NH1	2.05	0.65
12:CL:68:ALA:HB2	12:CL:85:ILE:HD11	1.79	0.65
16:CP:20:VAL:HG23	16:CP:34:GLU:O	1.96	0.65
23:CW:39:A:H3'	23:CW:41:C:P	2.36	0.65
22:CY:29:A:O2'	22:CY:30:U:H5'	1.95	0.65
27:D2:17:SER:O	27:D2:21:LEU:HB2	1.96	0.65
35:DA:1532:C:H2'	35:DA:1533:G:O4'	1.96	0.65
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.11	0.65
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.31	0.65
35:DA:2132:U:C4	37:DC:6:LYS:HB2	2.32	0.65
39:DE:101:ARG:HB2	39:DE:201:THR:HG21	1.78	0.65
39:DE:116:VAL:O	39:DE:117:MET:CB	2.44	0.65
41:DG:45:GLU:HA	41:DG:45:GLU:OE1	1.97	0.65
42:DH:154:PRO:O	42:DH:156:ALA:N	2.29	0.65
46:DO:64:ARG:NH1	51:DT:70:VAL:HG21	2.12	0.65
50:DS:26:LEU:O	50:DS:88:ASP:HB3	1.97	0.65
51:DT:80:SER:HB3	51:DT:81:PRO:CD	2.24	0.65
53:DV:55:ALA:HA	53:DV:101:GLY:HA2	1.78	0.65
1:AA:762:C:H2'	1:AA:763:G:H8	1.60	0.65
4:AD:104:VAL:O	4:AD:108:LEU:HB2	1.96	0.65
4:AD:152:SER:HA	4:AD:155:LEU:HG	1.78	0.65
10:AJ:49:VAL:HG21	14:AN:41:ARG:HB2	1.78	0.65
21:AU:23:PRO:C	21:AU:25:LYS:H	2.04	0.65
30:B5:51:TYR:CG	30:B5:52:TYR:N	2.64	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1534:U:H2'	35:BA:1535:A:O4'	1.96	0.65
35:BA:1887:C:C3'	35:BA:1888:G:H5"	2.26	0.65
35:BA:2178:C:H4'	37:BC:47:LYS:HD3	1.78	0.65
49:BR:10:LEU:CD2	49:BR:17:ARG:HD3	2.27	0.65
52:BU:90:VAL:CG2	53:BV:39:LEU:HG	2.27	0.65
56:BY:2:ARG:N	56:BY:4:LYS:HE2	2.12	0.65
1:CA:502:G:OP1	12:CL:118:SER:HB3	1.97	0.65
1:CA:1026:G:H2'	1:CA:1026:G:N3	2.12	0.65
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.31	0.65
1:CA:1519:A:H2'	1:CA:1520:G:H5'	1.78	0.65
6:CF:45:LEU:HD23	6:CF:46:ARG:N	2.11	0.65
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.32	0.65
16:CP:2:VAL:HG23	16:CP:21:VAL:HG23	1.76	0.65
28:D3:1:MET:HE2	28:D3:39:ASP:HB3	1.79	0.65
35:DA:142:A:H5'	35:DA:142(A):C:OP2	1.97	0.65
35:DA:272(J):C:O2'	35:DA:274:G:H5'	1.96	0.65
35:DA:322:A:OP2	40:DF:169:ASN:HB2	1.96	0.65
35:DA:1431:U:O2'	35:DA:1432:C:H5'	1.96	0.65
35:DA:2189:U:C2'	35:DA:2190:G:H5"	2.25	0.65
50:DS:99:LYS:O	50:DS:101:LEU:N	2.30	0.65
52:DU:79:PHE:CD1	52:DU:83:LEU:HD21	2.31	0.65
56:DY:90:LEU:HG	56:DY:91:GLU:H	1.61	0.65
57:DZ:19:ARG:HH12	57:DZ:84:GLU:CA	2.09	0.65
1:AA:390:C:H2'	1:AA:391:G:C8	2.32	0.65
1:AA:833:U:H2'	1:AA:834:C:H6	1.60	0.65
1:AA:959:A:H3'	1:AA:960:U:H5"	1.79	0.65
2:AB:67:THR:HG21	2:AB:155:LEU:HD21	1.76	0.65
2:AB:189:ASP:C	2:AB:191:ASP:H	2.03	0.65
3:AC:77:ILE:HG23	3:AC:84:ILE:CG2	2.27	0.65
23:AW:29:A:C6	23:AW:30:U:C4	2.84	0.65
49:BR:84:ALA:HB3	49:BR:85:PRO:HD3	1.79	0.65
50:BS:19:LYS:HB3	50:BS:20:ARG:NH2	2.11	0.65
51:BT:34:VAL:HG12	51:BT:35:LYS:H	1.59	0.65
56:BY:89:PHE:C	56:BY:90:LEU:HD23	2.21	0.65
1:CA:1401:G:OP1	1:CA:1401:G:C8	2.49	0.65
1:CA:1494:G:H2'	1:CA:1494:G:N3	2.11	0.65
33:D8:37:SER:OG	33:D8:39:LYS:HB3	1.97	0.65
35:DA:404:C:C4'	35:DA:405:U:H5'	2.22	0.65
38:DD:58:HIS:HD2	38:DD:59:LYS:N	1.95	0.65
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.10	0.65
39:DE:118:LYS:H	39:DE:121:ASN:H	1.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:63:VAL:O	51:DT:73:GLU:HA	1.96	0.65
1:AA:1125:U:H3	10:AJ:5:ARG:NH2	1.95	0.65
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.97	0.65
2:AB:15:VAL:HG23	2:AB:16:HIS:CE1	2.32	0.65
3:AC:16:ARG:HB2	3:AC:16:ARG:HH11	1.58	0.65
4:AD:11:LEU:HD13	4:AD:66:ARG:HD3	1.76	0.65
12:AL:20:LYS:HB3	12:AL:20:LYS:NZ	2.11	0.65
19:AS:22:LEU:O	19:AS:26:GLY:HA2	1.95	0.65
20:AT:50:GLU:HA	20:AT:100:ILE:HG21	1.79	0.65
25:B0:27:GLU:N	25:B0:27:GLU:OE1	2.28	0.65
29:B4:53:GLU:OE1	29:B4:55:ARG:HG3	1.96	0.65
35:BA:545:C:H2'	35:BA:547:A:C4'	2.27	0.65
35:BA:782:A:H5'	35:BA:783:A:C2	2.31	0.65
40:BF:24:LEU:CB	40:BF:25:PRO:HD2	2.22	0.65
47:BP:85:LEU:HA	47:BP:88:LEU:HD13	1.77	0.65
47:BP:112:LEU:HD13	47:BP:112:LEU:C	2.22	0.65
53:BV:55:ALA:HA	53:BV:101:GLY:HA2	1.79	0.65
1:CA:298:A:H2'	1:CA:299:G:O4'	1.97	0.65
1:CA:908:A:H2'	1:CA:909:A:H8	1.62	0.65
2:CB:178:ARG:NH2	8:CH:68:ARG:NH2	2.44	0.65
7:CG:69:VAL:HG22	7:CG:135:VAL:HG22	1.79	0.65
7:CG:108:ALA:HA	7:CG:111:ARG:HD2	1.79	0.65
10:CJ:3:LYS:HB2	10:CJ:4:ILE:HD12	1.78	0.65
13:CM:112:GLY:HA2	13:CM:113:PRO:HG2	1.79	0.65
23:CW:36:C:H2'	23:CW:36:C:O2	1.95	0.65
22:CY:19:G:C6	22:CY:59:G:C2	2.84	0.65
35:DA:1542:A:H3'	35:DA:1542:A:C8	2.31	0.65
40:DF:36:VAL:O	40:DF:40:GLN:HG3	1.97	0.65
57:DZ:103:ARG:HH11	57:DZ:103:ARG:HG3	1.62	0.65
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.26	0.65
1:AA:1194:U:H2'	1:AA:1195:C:H6	1.61	0.65
1:AA:1309:G:H2'	1:AA:1310:G:C8	2.32	0.65
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.79	0.65
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.11	0.65
22:AV:23:A:H5'	22:AV:24:A:P	2.37	0.65
23:AW:9:A:C5	23:AW:47:G:C2	2.84	0.65
25:B0:10:THR:HG22	25:B0:11:ARG:N	2.08	0.65
35:BA:2463:C:O2'	35:BA:2464:C:H5'	1.95	0.65
36:BB:94:C:H2'	36:BB:95:C:H6	1.60	0.65
41:BG:71:THR:HB	41:BG:89:GLY:C	2.22	0.65
45:BN:120:LEU:CD2	45:BN:122:VAL:HG23	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:64:ARG:NH1	51:BT:70:VAL:HG21	2.12	0.65
47:BP:16:ARG:CD	47:BP:18:ARG:H	2.10	0.65
47:BP:47:ASP:HB3	47:BP:48:PRO:C	2.22	0.65
47:BP:48:PRO:CG	47:BP:49:ARG:H	2.07	0.65
48:BQ:61:GLY:N	57:BZ:178:GLU:O	2.29	0.65
1:CA:693:G:C5	24:CX:13:A:O2'	2.49	0.65
1:CA:833:U:H2'	1:CA:834:C:H6	1.60	0.65
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.05	0.65
15:CO:29:VAL:HG11	15:CO:81:LEU:HD21	1.78	0.65
19:CS:63:THR:O	19:CS:66:MET:HG2	1.95	0.65
22:CY:19:G:H22	22:CY:59:G:H2'	1.61	0.65
35:DA:796:C:H2'	35:DA:797:C:C6	2.31	0.65
35:DA:960:A:H61	48:DQ:83:MET:HE2	1.61	0.65
35:DA:2313:C:H2'	35:DA:2314:C:C6	2.29	0.65
42:DH:156:ALA:O	42:DH:157:TYR:C	2.40	0.65
43:DI:123:LEU:HD11	43:DI:144:VAL:CG2	2.26	0.65
57:DZ:118:GLN:HE21	57:DZ:175:VAL:CG1	2.09	0.65
1:AA:728:A:H2'	1:AA:729:A:H8	1.57	0.65
1:AA:862:C:O2'	1:AA:863:U:H5'	1.97	0.65
1:AA:973:G:H3'	1:AA:974:A:H5"	1.78	0.65
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.79	0.65
4:AD:173:TRP:CD2	4:AD:189:PRO:HB3	2.32	0.65
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.61	0.65
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.05	0.65
33:B8:33:ASN:ND2	33:B8:33:ASN:H	1.94	0.65
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.97	0.65
46:BO:105:GLU:O	46:BO:108:GLU:HG2	1.96	0.65
56:BY:29:GLU:N	56:BY:29:GLU:OE1	2.28	0.65
1:CA:165:C:H2'	1:CA:166:G:C8	2.32	0.65
1:CA:1033:G:C2'	1:CA:1034:G:H5'	2.27	0.65
2:CB:233:SER:CB	2:CB:234:PRO:HD2	2.25	0.65
17:CQ:52:LYS:HD2	17:CQ:52:LYS:H	1.60	0.65
20:CT:53:LEU:HD12	20:CT:100:ILE:HG23	1.78	0.65
22:CV:76:C:H2'	22:CV:77:C:C5'	2.26	0.65
35:DA:1761:C:H3'	35:DA:1762:A:H8	1.62	0.65
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.32	0.65
49:DR:13:HIS:CE1	49:DR:15:SER:HB3	2.32	0.65
1:AA:37:U:O2'	1:AA:38:G:H5'	1.96	0.65
1:AA:178:C:O2'	1:AA:179:A:H5'	1.96	0.65
1:AA:1033:G:H2'	1:AA:1034:G:H5'	1.78	0.65
3:AC:58:GLU:HB2	3:AC:65:ALA:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:96:ILE:N	10:AJ:96:ILE:HD13	2.12	0.65
11:AK:109:VAL:HG13	18:AR:85:LEU:O	1.96	0.65
15:AO:65:ARG:HH11	15:AO:65:ARG:HG2	1.60	0.65
20:AT:75:ASN:N	20:AT:75:ASN:ND2	2.43	0.65
23:AW:68:A:C4	23:AW:69:G:H8	2.14	0.65
30:B5:54:GLY:C	30:B5:55:ARG:NE	2.55	0.65
35:BA:1427:A:H4'	35:BA:1428:C:O5'	1.97	0.65
37:BC:182:PRO:HB2	37:BC:185:LYS:HD2	1.79	0.65
37:BC:216:THR:HB	37:BC:222:SER:HB3	1.79	0.65
38:BD:121:PRO:HB3	38:BD:135:PHE:HE2	1.62	0.65
39:BE:18:ASP:OD2	51:BT:39:ARG:HD2	1.97	0.65
43:BI:83:ALA:HB2	43:BI:88:ILE:HG23	1.78	0.65
46:BO:122:LEU:HD22	51:BT:43:GLN:NE2	2.12	0.65
1:CA:539:A:H2'	1:CA:540:G:C8	2.32	0.65
1:CA:596:C:H2'	1:CA:597:G:H8	1.61	0.65
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.12	0.65
8:CH:91:ARG:HH11	8:CH:91:ARG:HG2	1.62	0.65
12:CL:20:LYS:NZ	12:CL:20:LYS:HB3	2.12	0.65
12:CL:90:VAL:O	12:CL:92:ASP:N	2.30	0.65
15:CO:65:ARG:HG2	15:CO:65:ARG:NH1	2.08	0.65
15:CO:85:LEU:O	15:CO:85:LEU:HD23	1.97	0.65
31:D6:15:GLU:HB2	31:D6:49:HIS:CE1	2.32	0.65
35:DA:2781:A:H5"	35:DA:2782:G:H5'	1.79	0.65
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.62	0.65
38:DD:24:ILE:CG1	38:DD:25:THR:N	2.59	0.65
43:DI:83:ALA:HB2	43:DI:88:ILE:HG23	1.78	0.65
43:DI:88:ILE:CD1	43:DI:142:VAL:HG13	2.23	0.65
46:DO:114:ILE:HD12	46:DO:114:ILE:H	1.60	0.65
57:DZ:16:SER:O	57:DZ:20:ARG:HB2	1.97	0.65
1:AA:218:C:H5'	1:AA:470:C:H42	1.62	0.64
1:AA:650:G:O2'	1:AA:651:C:H5'	1.97	0.64
1:AA:991:U:O2	1:AA:993:G:H8	1.80	0.64
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.11	0.64
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.32	0.64
2:AB:91:PRO:CG	2:AB:155:LEU:HD23	2.26	0.64
2:AB:102:LEU:HD12	2:AB:102:LEU:N	2.12	0.64
23:AW:70:G:C6	23:AW:71:G:C6	2.85	0.64
22:AY:43:G:O2'	22:AY:44:A:H5'	1.98	0.64
35:BA:389:G:N1	47:BP:71:VAL:HG12	2.11	0.64
35:BA:2132:U:C4	37:BC:6:LYS:HB2	2.32	0.64
43:BI:62:LYS:HD2	43:BI:133:HIS:HD2	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:27:THR:OG1	51:BT:28:VAL:N	2.30	0.64
1:CA:762:C:H2'	1:CA:763:G:H8	1.62	0.64
1:CA:973:G:H3'	1:CA:974:A:H5"	1.78	0.64
1:CA:1125:U:H3	10:CJ:5:ARG:NH2	1.95	0.64
1:CA:1309:G:H2'	1:CA:1310:G:C8	2.32	0.64
12:CL:46:LYS:HB2	12:CL:92:ASP:O	1.97	0.64
35:DA:315:G:H2'	35:DA:316:C:C6	2.32	0.64
35:DA:2777:G:H5"	35:DA:2778:A:C5'	2.26	0.64
36:DB:31:C:H2'	36:DB:53:A:H61	1.61	0.64
47:DP:16:ARG:HD3	47:DP:17:LYS:N	2.12	0.64
47:DP:16:ARG:CZ	47:DP:18:ARG:HB2	2.27	0.64
47:DP:39:LYS:HD2	47:DP:40:SER:H	1.62	0.64
49:DR:10:LEU:CB	49:DR:17:ARG:HD3	2.26	0.64
50:DS:19:LYS:HB3	50:DS:20:ARG:NH2	2.11	0.64
1:AA:298:A:H2'	1:AA:299:G:O4'	1.96	0.64
1:AA:472:A:H2'	1:AA:473:G:O4'	1.98	0.64
1:AA:596:C:H2'	1:AA:597:G:H8	1.61	0.64
1:AA:1026:G:N3	1:AA:1026:G:H2'	2.12	0.64
3:AC:14:ILE:HG12	3:AC:15:THR:N	2.10	0.64
17:AQ:9:VAL:HG11	17:AQ:84:LEU:CD1	2.27	0.64
22:AV:71:G:N2	22:AV:72:C:C2	2.66	0.64
28:B3:1:MET:HE2	28:B3:39:ASP:HB3	1.79	0.64
35:BA:330:A:O2'	35:BA:331:A:H8	1.81	0.64
39:BE:203:LYS:O	39:BE:203:LYS:HD2	1.97	0.64
52:BU:28:ARG:HD3	52:BU:38:THR:OG1	1.97	0.64
56:BY:7:VAL:C	56:BY:8:LYS:HD2	2.23	0.64
1:CA:390:C:H2'	1:CA:391:G:C8	2.32	0.64
8:CH:54:ASP:C	8:CH:56:LYS:H	2.04	0.64
9:CI:46:ALA:HA	9:CI:78:LYS:HB2	1.79	0.64
12:CL:25:PRO:C	12:CL:27:LEU:H	2.05	0.64
35:DA:1038:C:H2'	35:DA:1039:G:H5"	1.79	0.64
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.32	0.64
35:DA:1719:G:C2'	35:DA:1720:U:H5'	2.27	0.64
35:DA:2092:U:C4'	35:DA:2093:G:H5"	2.20	0.64
35:DA:2143:C:H2'	35:DA:2144:U:O4'	1.98	0.64
40:DF:66:PRO:O	40:DF:67:GLN:HB3	1.95	0.64
49:DR:101:ALA:O	49:DR:102:GLU:HB2	1.96	0.64
1:AA:424:G:O2'	1:AA:425:G:H5'	1.97	0.64
2:AB:166:ASP:CG	2:AB:169:LYS:HB2	2.22	0.64
3:AC:107:GLN:H	3:AC:107:GLN:NE2	1.96	0.64
4:AD:18:LYS:HE2	4:AD:31:CYS:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:76:ALA:HB1	6:AF:80:ARG:HH21	1.62	0.64
15:AO:65:ARG:HG2	15:AO:65:ARG:NH1	2.13	0.64
18:AR:30:ASP:C	18:AR:32:ARG:H	2.06	0.64
20:AT:51:GLU:HA	20:AT:54:LYS:HZ1	1.62	0.64
22:AV:15:G:H2'	22:AV:16:U:H6	1.62	0.64
22:AV:52:C:H2'	22:AV:53:U:H6	1.57	0.64
23:AW:39:A:H5"	23:AW:40:A:OP2	1.98	0.64
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.22	0.64
35:BA:796:C:H2'	35:BA:797:C:C6	2.32	0.64
35:BA:1914:C:H2'	35:BA:1915:U:C6	2.32	0.64
39:BE:101:ARG:HB3	39:BE:169:ASN:HD22	1.62	0.64
42:BH:68:THR:C	42:BH:70:THR:N	2.54	0.64
45:BN:62:VAL:HG13	45:BN:62:VAL:O	1.95	0.64
53:BV:18:LEU:HD13	53:BV:19:LYS:H	1.61	0.64
53:BV:89:GLN:OE1	53:BV:90:PRO:HD2	1.97	0.64
1:CA:444:C:H2'	1:CA:445:G:C8	2.31	0.64
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.32	0.64
1:CA:1502:A:H2	1:CA:1505:G:N1	1.95	0.64
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.80	0.64
35:DA:914:C:C2'	35:DA:915:C:H5'	2.26	0.64
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.26	0.64
41:DG:29:TRP:HA	41:DG:29:TRP:HE3	1.60	0.64
41:DG:141:PHE:HD1	41:DG:142:PRO:HD2	1.63	0.64
47:DP:29:LYS:HD2	47:DP:29:LYS:N	2.12	0.64
53:DV:1:MET:HE1	53:DV:43:GLU:OE2	1.97	0.64
57:DZ:151:HIS:HA	57:DZ:171:ILE:HG13	1.80	0.64
1:AA:711:G:O2'	1:AA:712:A:H5'	1.96	0.64
1:AA:1321:C:C3'	1:AA:1322:C:H5"	2.27	0.64
2:AB:140:HIS:HA	2:AB:143:GLU:CG	2.25	0.64
5:AE:69:VAL:O	5:AE:71:LEU:HG	1.98	0.64
6:AF:45:LEU:HD23	6:AF:45:LEU:C	2.22	0.64
8:AH:98:LYS:HG3	8:AH:99:GLU:HG3	1.80	0.64
13:AM:112:GLY:HA2	13:AM:113:PRO:HG2	1.78	0.64
22:AY:70:G:H2'	22:AY:71:G:H8	1.62	0.64
35:BA:633:A:H2'	35:BA:634:C:H5'	1.78	0.64
35:BA:2584:U:C2'	35:BA:2585:U:H5'	2.27	0.64
35:BA:2845:G:O2'	35:BA:2846:G:H5'	1.98	0.64
37:BC:31:LYS:HZ1	37:BC:183:PRO:HD3	1.63	0.64
46:BO:64:ARG:HG2	46:BO:79:PHE:CG	2.33	0.64
53:BV:15:GLU:HB3	53:BV:16:PRO:CD	2.27	0.64
56:BY:76:CYS:SG	56:BY:77:PRO:CD	2.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:103:ARG:HB2	57:BZ:103:ARG:HH11	1.62	0.64
1:CA:178:C:O2'	1:CA:179:A:H5'	1.97	0.64
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.13	0.64
12:CL:53:ARG:O	12:CL:55:VAL:HG13	1.98	0.64
12:CL:54:LYS:HD2	12:CL:54:LYS:N	2.12	0.64
20:CT:12:ALA:O	20:CT:15:ARG:HB2	1.98	0.64
22:CV:19:G:H2'	22:CV:59:G:N2	2.12	0.64
22:CV:45:U:H2'	22:CV:46:U:C6	2.32	0.64
31:D6:48:VAL:O	31:D6:49:HIS:HB2	1.95	0.64
35:DA:594:U:H2'	35:DA:595:C:H6	1.62	0.64
35:DA:1038:C:C2'	35:DA:1039:G:H5"	2.27	0.64
35:DA:1902:C:H4'	38:DD:244:ARG:HA	1.79	0.64
39:DE:10:GLY:HA3	51:DT:8:LYS:HZ3	1.59	0.64
39:DE:24:THR:HG22	39:DE:186:GLY:HA2	1.78	0.64
46:DO:13:ASN:ND2	46:DO:97:ARG:HB2	2.12	0.64
47:DP:7:ARG:NH1	47:DP:7:ARG:HB3	2.12	0.64
1:AA:328:C:H4'	1:AA:329:A:H5'	1.78	0.64
1:AA:1134:G:N2	1:AA:1141:C:H1'	2.13	0.64
3:AC:23:TYR:HA	10:AJ:11:PHE:CE2	2.32	0.64
12:AL:43:VAL:O	12:AL:52:LEU:HD23	1.98	0.64
22:AV:24:A:N6	22:AV:48:G:N2	2.44	0.64
22:AY:69:G:C4	22:AY:70:G:C8	2.86	0.64
35:BA:662:G:OP1	47:BP:18:ARG:HD2	1.96	0.64
35:BA:2012:G:H4'	54:BW:96:ILE:HD11	1.79	0.64
35:BA:2143:C:H2'	35:BA:2144:U:O4'	1.98	0.64
37:BC:16:ASP:HB3	37:BC:19:LYS:HB3	1.79	0.64
38:BD:186:HIS:HD2	38:BD:188:GLU:HB2	1.61	0.64
56:BY:39:VAL:HG12	56:BY:40:GLU:H	1.63	0.64
57:BZ:24:LEU:HD21	57:BZ:86:VAL:HG23	1.78	0.64
57:BZ:138:GLU:HB2	57:BZ:156:LYS:HB3	1.79	0.64
1:CA:194:C:C2'	1:CA:195:A:H5"	2.26	0.64
1:CA:1054:C:O2'	1:CA:1055:A:H5'	1.98	0.64
4:CD:79:PHE:C	4:CD:79:PHE:CD1	2.76	0.64
5:CE:64:ARG:HG3	5:CE:64:ARG:HH11	1.62	0.64
16:CP:43:LYS:C	16:CP:45:THR:H	2.04	0.64
18:CR:56:THR:HB	18:CR:58:LEU:CD1	2.26	0.64
22:CY:57:U:O2	57:DZ:184:ALA:HB3	1.96	0.64
26:D1:19:GLN:HA	26:D1:19:GLN:NE2	2.11	0.64
27:D2:48:HIS:CD2	35:DA:96:G:H4'	2.33	0.64
45:DN:62:VAL:O	45:DN:62:VAL:HG13	1.98	0.64
51:DT:27:THR:O	51:DT:28:VAL:HB	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:35:LYS:O	51:DT:36:GLU:HB3	1.97	0.64
53:DV:21:ARG:CG	53:DV:91:TYR:HD2	2.10	0.64
57:DZ:18:LEU:HB3	57:DZ:23:LYS:O	1.98	0.64
1:AA:175:C:O2'	1:AA:176:C:H5'	1.97	0.64
1:AA:198:G:H2'	1:AA:199:G:C8	2.33	0.64
1:AA:630:G:H2'	1:AA:631:G:C5'	2.28	0.64
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.98	0.64
1:AA:1392:G:N2	1:AA:1502:A:H8	1.95	0.64
4:AD:8:VAL:O	4:AD:10:ARG:N	2.31	0.64
10:AJ:3:LYS:HB2	10:AJ:4:ILE:HD12	1.79	0.64
12:AL:43:VAL:HG13	12:AL:55:VAL:HG21	1.79	0.64
18:AR:58:LEU:H	18:AR:58:LEU:CD1	2.11	0.64
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.98	0.64
30:B5:2:ALA:N	35:BA:2015:A:H1'	2.12	0.64
31:B6:52:VAL:HG22	31:B6:53:LYS:N	2.13	0.64
35:BA:1490:A:H5'	35:BA:1491:G:OP2	1.96	0.64
35:BA:1761:C:H3'	35:BA:1762:A:H8	1.61	0.64
35:BA:2584:U:H2'	35:BA:2585:U:H5'	1.80	0.64
35:BA:2632:A:H2	39:BE:61:ARG:HD2	1.62	0.64
39:BE:93:VAL:HG12	39:BE:175:VAL:HG23	1.79	0.64
53:BV:19:LYS:HE2	53:BV:19:LYS:HA	1.80	0.64
56:BY:9:LYS:O	56:BY:28:LYS:NZ	2.29	0.64
56:BY:27:VAL:CA	56:BY:28:LYS:HZ1	2.09	0.64
57:BZ:102:LEU:HD22	57:BZ:139:VAL:HG21	1.78	0.64
1:CA:620:C:H2'	1:CA:621:A:O4'	1.98	0.64
1:CA:1152:A:C5'	10:CJ:70:ARG:HH22	2.04	0.64
5:CE:57:LYS:HE2	5:CE:61:TYR:HE2	1.63	0.64
35:DA:545:C:H2'	35:DA:547:A:C4'	2.27	0.64
35:DA:587:C:H2'	47:DP:33:ARG:NH2	2.13	0.64
35:DA:1750:G:O2'	35:DA:1751:C:H5'	1.96	0.64
35:DA:2807:G:C2'	35:DA:2808:U:H5"	2.27	0.64
38:DD:32:SER:O	38:DD:36:PRO:HG3	1.97	0.64
39:DE:203:LYS:O	39:DE:203:LYS:HD2	1.97	0.64
41:DG:60:LEU:O	41:DG:64:THR:HG22	1.98	0.64
53:DV:18:LEU:HD13	53:DV:19:LYS:H	1.62	0.64
1:AA:620:C:H2'	1:AA:621:A:O4'	1.97	0.64
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.79	0.64
4:AD:90:GLY:HA2	4:AD:204:ILE:HD11	1.80	0.64
7:AG:108:ALA:HA	7:AG:111:ARG:HD2	1.80	0.64
11:AK:59:TYR:O	11:AK:62:GLN:HB3	1.98	0.64
23:AW:7:U:O2	23:AW:69:G:C4	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:4:C:N4	22:AY:72:C:H5	1.96	0.64
33:B8:43:GLN:C	33:B8:44:LYS:HD2	2.23	0.64
35:BA:322:A:OP2	40:BF:169:ASN:HB2	1.97	0.64
35:BA:674:G:H1'	40:BF:74:ARG:HD2	1.80	0.64
35:BA:774:A:H2	35:BA:787:U:HO2'	1.45	0.64
37:BC:40:GLU:OE2	37:BC:219:MET:HB2	1.97	0.64
39:BE:38:THR:C	39:BE:40:GLU:H	2.05	0.64
47:BP:7:ARG:HB3	47:BP:7:ARG:NH1	2.12	0.64
47:BP:108:LYS:C	47:BP:110:TYR:H	2.05	0.64
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.97	0.64
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.33	0.64
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.97	0.64
3:CC:19:GLU:HA	3:CC:54:ARG:HH12	1.63	0.64
3:CC:138:VAL:HG22	3:CC:151:VAL:HG23	1.79	0.64
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	1.98	0.64
18:CR:30:ASP:C	18:CR:32:ARG:H	2.05	0.64
39:DE:38:THR:C	39:DE:40:GLU:H	2.05	0.64
41:DG:63:ILE:CG2	41:DG:141:PHE:HB3	2.27	0.64
46:DO:78:ARG:NE	51:DT:73:GLU:OE1	2.30	0.64
57:DZ:48:PHE:HE2	57:DZ:71:VAL:HG11	1.63	0.64
4:AD:65:ARG:HD2	4:AD:72:GLU:HA	1.80	0.64
9:AI:28:VAL:HG22	9:AI:63:ILE:HB	1.79	0.64
18:AR:40:LEU:H	18:AR:40:LEU:HD12	1.63	0.64
22:AV:17:C:H5"	22:AV:18:U:C5	2.32	0.64
33:B8:37:SER:OG	33:B8:39:LYS:HB3	1.98	0.64
35:BA:621:A:H2'	35:BA:622:G:H5'	1.79	0.64
35:BA:654(S):G:H3'	35:BA:654(T):C:C5'	2.28	0.64
35:BA:2196:C:O2'	35:BA:2197:U:H5'	1.98	0.64
38:BD:45:ASN:ND2	38:BD:50:THR:HG21	2.13	0.64
47:BP:16:ARG:HD3	47:BP:17:LYS:N	2.12	0.64
48:BQ:134:ARG:HA	48:BQ:137:TYR:CD2	2.33	0.64
53:BV:1:MET:HE1	53:BV:43:GLU:OE2	1.98	0.64
53:BV:21:ARG:CG	53:BV:91:TYR:HD2	2.11	0.64
1:CA:63:C:H42	1:CA:104:G:H1	1.44	0.64
5:CE:93:PRO:HG2	8:CH:105:ARG:HH21	1.63	0.64
9:CI:2:GLU:O	9:CI:3:GLN:HG3	1.98	0.64
9:CI:29:ASN:OD1	9:CI:64:THR:HG23	1.98	0.64
13:CM:30:ALA:C	13:CM:32:GLU:H	2.06	0.64
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	1.80	0.64
23:CW:27:C:C3'	23:CW:28:G:H8	2.11	0.64
23:CW:47:G:O2'	23:CW:48:G:H5'	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:33:ASN:ND2	33:D8:33:ASN:H	1.96	0.64
35:DA:1427:A:H4'	35:DA:1428:C:O5'	1.97	0.64
35:DA:2632:A:H2	39:DE:61:ARG:HD2	1.62	0.64
37:DC:40:GLU:OE2	37:DC:219:MET:HB2	1.98	0.64
38:DD:117:VAL:HG21	38:DD:128:GLY:O	1.98	0.64
41:DG:111:LEU:HB2	41:DG:112:PRO:CD	2.25	0.64
41:DG:120:LEU:HB2	41:DG:180:PHE:CD1	2.33	0.64
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.97	0.64
2:AB:12:GLU:C	2:AB:14:GLY:H	2.06	0.64
2:AB:166:ASP:CB	2:AB:169:LYS:HB2	2.28	0.64
5:AE:64:ARG:HH11	5:AE:64:ARG:HG3	1.62	0.64
7:AG:69:VAL:HG22	7:AG:135:VAL:HG22	1.79	0.64
12:AL:18:VAL:O	12:AL:19:ARG:HB2	1.98	0.64
17:AQ:52:LYS:H	17:AQ:52:LYS:HD2	1.62	0.64
20:AT:51:GLU:HA	20:AT:54:LYS:NZ	2.13	0.64
22:AY:28:G:N3	22:AY:28:G:H2'	2.13	0.64
35:BA:1506:C:H2'	35:BA:1506:C:O2	1.95	0.64
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.80	0.64
35:BA:2807:G:C3'	35:BA:2808:U:H5"	2.28	0.64
39:BE:34:VAL:CG1	39:BE:48:GLN:HG2	2.27	0.64
39:BE:69:LYS:NZ	39:BE:89:ASP:HA	2.11	0.64
43:BI:81:VAL:HG13	43:BI:143:SER:H	1.63	0.64
45:BN:67:LEU:O	45:BN:68:GLU:HB2	1.98	0.64
50:BS:89:ARG:HB3	50:BS:92:TYR:HB3	1.79	0.64
1:CA:148:G:H2'	1:CA:149:A:H8	1.63	0.64
1:CA:191:G:H1'	20:CT:105:SER:HB3	1.78	0.64
1:CA:472:A:H2'	1:CA:473:G:O4'	1.98	0.64
1:CA:650:G:O2'	1:CA:651:C:H5'	1.98	0.64
1:CA:711:G:O2'	1:CA:712:A:H5'	1.98	0.64
1:CA:1112:C:O2	3:CC:179:ARG:HG2	1.98	0.64
2:CB:137:ARG:HD3	2:CB:138:LEU:HG	1.79	0.64
2:CB:194:PRO:O	2:CB:196:LEU:N	2.31	0.64
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	1.98	0.64
5:CE:141:GLN:HA	5:CE:143:ARG:NH2	2.12	0.64
7:CG:108:ALA:O	7:CG:119:ARG:HD2	1.98	0.64
33:D8:58:ILE:CG2	47:DP:49:ARG:HD2	2.26	0.64
35:DA:481:G:OP2	56:DY:47:LYS:HD3	1.98	0.64
35:DA:587:C:O2'	35:DA:588:U:OP2	2.16	0.64
35:DA:719:C:O2'	35:DA:720:C:H5'	1.98	0.64
35:DA:2830:G:N3	35:DA:2883:A:H2	1.96	0.64
37:DC:195:ARG:HH11	37:DC:195:ARG:HG3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:5:VAL:CG1	41:DG:6:ALA:H	2.08	0.64
41:DG:6:ALA:HB3	41:DG:104:GLU:OE1	1.98	0.64
49:DR:10:LEU:CD2	49:DR:17:ARG:HD3	2.27	0.64
1:AA:148:G:H2'	1:AA:149:A:H8	1.63	0.64
1:AA:404:U:H2'	1:AA:405:U:H6	1.63	0.64
1:AA:489:C:H6	1:AA:489:C:O5'	1.79	0.64
1:AA:521:G:O2'	1:AA:522:C:H5'	1.98	0.64
1:AA:1275:A:H2'	1:AA:1276:G:H8	1.62	0.64
2:AB:194:PRO:O	2:AB:196:LEU:N	2.31	0.64
5:AE:50:GLU:HB3	5:AE:53:LEU:HD12	1.80	0.64
7:AG:73:MET:HA	7:AG:91:VAL:HG23	1.80	0.64
15:AO:4:THR:OG1	15:AO:7:GLU:HG3	1.97	0.64
15:AO:82:ILE:HD11	15:AO:87:ILE:O	1.98	0.64
28:B3:19:GLN:HE22	28:B3:52:HIS:HE1	1.45	0.64
35:BA:61:G:H1	35:BA:94:C:H42	1.44	0.64
35:BA:1885:A:H8	35:BA:1885:A:H5'	1.62	0.64
37:BC:195:ARG:HG3	37:BC:195:ARG:HH11	1.62	0.64
46:BO:22:ILE:HD11	46:BO:42:SER:HB2	1.78	0.64
47:BP:18:ARG:HH11	47:BP:18:ARG:HB3	1.63	0.64
49:BR:98:LEU:HB2	49:BR:113:LEU:HD21	1.79	0.64
51:BT:104:ASN:O	51:BT:105:LEU:C	2.39	0.64
56:BY:45:VAL:HA	56:BY:62:GLU:HB2	1.79	0.64
2:CB:114:ARG:O	2:CB:118:LEU:HG	1.98	0.64
2:CB:132:LYS:HA	2:CB:135:GLN:HE21	1.63	0.64
4:CD:152:SER:HA	4:CD:155:LEU:HG	1.79	0.64
15:CO:82:ILE:HD11	15:CO:87:ILE:O	1.97	0.64
35:DA:203:C:H3'	35:DA:204:A:H5"	1.80	0.64
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.33	0.64
35:DA:1607:C:H4'	35:DA:1608:A:O5'	1.98	0.64
48:DQ:63:LYS:HE2	57:DZ:118:GLN:HE22	1.62	0.64
51:DT:16:ARG:HH12	51:DT:19:LEU:HD21	1.62	0.64
52:DU:31:SER:C	52:DU:33:ARG:H	2.04	0.64
1:AA:105:G:H2'	1:AA:106:C:C6	2.34	0.63
1:AA:189(D):C:H1'	1:AA:189(H):G:N2	2.12	0.63
1:AA:1005:A:H8	1:AA:1006:C:O4'	1.80	0.63
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.80	0.63
2:AB:137:ARG:HD3	2:AB:138:LEU:HG	1.80	0.63
3:AC:19:GLU:HA	3:AC:54:ARG:HH12	1.63	0.63
3:AC:82:GLU:O	3:AC:86:VAL:HG22	1.99	0.63
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.62	0.63
23:AW:3:G:C6	23:AW:4:C:N4	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:33:G:H2'	23:AW:34:C:C4'	2.28	0.63
23:AW:33:G:N2	23:AW:40:A:H62	1.97	0.63
22:AY:70:G:C4	22:AY:71:G:C8	2.86	0.63
30:B5:4:HIS:CB	30:B5:5:PRO:HD3	2.16	0.63
34:B9:18:ARG:CD	35:BA:1034:G:H5'	2.27	0.63
35:BA:276:A:H5'	35:BA:277:C:C6	2.31	0.63
35:BA:1771:C:H1'	35:BA:1786:A:C8	2.34	0.63
35:BA:2464:C:O2'	35:BA:2465:C:H6	1.81	0.63
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.45	0.63
43:BI:93:THR:O	43:BI:97:ILE:N	2.30	0.63
45:BN:89:LYS:HB3	45:BN:89:LYS:NZ	2.13	0.63
51:BT:28:VAL:HG22	51:BT:46:GLU:CA	2.28	0.63
1:CA:56:U:H2'	1:CA:57:G:H8	1.62	0.63
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.32	0.63
1:CA:1418:A:H2	35:DA:1948:G:N3	1.95	0.63
1:CA:1504:G:O2'	1:CA:1505:G:OP2	2.14	0.63
3:CC:134:ILE:HG23	3:CC:151:VAL:HB	1.80	0.63
5:CE:69:VAL:O	5:CE:71:LEU:HG	1.98	0.63
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	1.99	0.63
12:CL:91:LYS:O	12:CL:91:LYS:HG3	1.97	0.63
23:CW:4:C:O2'	23:CW:5:C:OP2	2.15	0.63
30:D5:53:ALA:C	30:D5:55:ARG:HE	2.06	0.63
35:DA:654(S):G:H3'	35:DA:654(T):C:C5'	2.28	0.63
35:DA:2807:G:C3'	35:DA:2808:U:H5"	2.28	0.63
36:DB:73:A:H61	57:DZ:29:TYR:HE2	1.45	0.63
39:DE:93:VAL:HG12	39:DE:175:VAL:HG23	1.78	0.63
40:DF:108:LYS:HD2	40:DF:112:MET:CE	2.27	0.63
1:AA:16:A:N1	1:AA:919:A:H2	1.96	0.63
3:AC:134:ILE:HG23	3:AC:151:VAL:HB	1.80	0.63
9:AI:114:TYR:N	9:AI:114:TYR:CD1	2.64	0.63
13:AM:91:ARG:NH2	13:AM:100:GLY:HA2	2.12	0.63
20:AT:23:ARG:HA	20:AT:26:ASN:HD21	1.63	0.63
22:AV:31:C:H2'	22:AV:32:G:C8	2.34	0.63
23:AW:13:U:C6	23:AW:14:A:H5"	2.34	0.63
22:AY:9:A:C5	22:AY:47:G:C6	2.87	0.63
22:AY:30:U:C2	22:AY:31:C:C5	2.86	0.63
22:AY:57:U:O4'	57:BZ:183:LEU:C	2.41	0.63
31:B6:42:TRP:HA	31:B6:42:TRP:CE3	2.33	0.63
35:BA:141:A:C8	35:BA:1408:C:O2'	2.51	0.63
35:BA:332:A:H4'	35:BA:333:G:OP1	1.98	0.63
35:BA:2250:G:N2	48:BQ:84:GLY:HA3	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.34	0.63
46:BO:121:VAL:O	46:BO:122:LEU:HD23	1.98	0.63
47:BP:114:ILE:HD12	47:BP:115:LEU:N	2.13	0.63
50:BS:67:ARG:HB3	50:BS:67:ARG:NH1	2.12	0.63
1:CA:404:U:H2'	1:CA:405:U:H6	1.61	0.63
1:CA:707:C:O2'	1:CA:708:C:H5'	1.98	0.63
1:CA:1346:A:N1	1:CA:1374:A:H5"	2.13	0.63
4:CD:157:LEU:HG	4:CD:161:ASN:ND2	2.13	0.63
22:CV:4:C:O2'	22:CV:5:C:C6	2.42	0.63
23:CW:44:A:H2'	23:CW:45:U:H5"	1.80	0.63
35:DA:633:A:H2'	35:DA:634:C:H5'	1.78	0.63
35:DA:1916:A:H5'	35:DA:1916:A:H8	1.63	0.63
35:DA:2134:A:H1'	35:DA:2159:G:N2	2.13	0.63
40:DF:32:LEU:HD23	40:DF:32:LEU:C	2.22	0.63
49:DR:31:HIS:C	49:DR:33:ARG:H	2.06	0.63
49:DR:98:LEU:HB2	49:DR:113:LEU:HD21	1.79	0.63
51:DT:27:THR:HG23	51:DT:28:VAL:N	2.13	0.63
51:DT:32:TYR:CD2	51:DT:81:PRO:HB2	2.34	0.63
52:DU:31:SER:HB3	52:DU:34:LYS:HB2	1.80	0.63
57:DZ:117:LEU:HD12	57:DZ:174:VAL:HG22	1.80	0.63
1:AA:376:G:H2'	1:AA:377:G:H8	1.63	0.63
1:AA:617:G:H4'	16:AP:44:THR:O	1.98	0.63
1:AA:1112:C:O2	3:AC:179:ARG:HG2	1.98	0.63
12:AL:68:ALA:HB2	12:AL:85:ILE:HD11	1.78	0.63
13:AM:30:ALA:C	13:AM:32:GLU:H	2.05	0.63
22:AY:12:U:N3	22:AY:26:G:N1	2.46	0.63
22:AY:57:U:O5'	57:BZ:182:LYS:CB	2.42	0.63
33:B8:58:ILE:CG2	47:BP:49:ARG:HD2	2.27	0.63
35:BA:588:U:H2'	35:BA:589:C:C6	2.33	0.63
35:BA:1541:G:H4'	35:BA:1542:A:C5'	2.28	0.63
35:BA:1719:G:O2'	35:BA:1720:U:H5'	1.97	0.63
44:BJ:66:UNK:C	44:BJ:72:UNK:HA	2.29	0.63
46:BO:104:ARG:NE	51:BT:33:LYS:HD2	2.12	0.63
51:BT:27:THR:O	51:BT:28:VAL:HB	1.97	0.63
53:BV:5:VAL:HG23	53:BV:37:VAL:HG23	1.81	0.63
1:CA:198:G:H2'	1:CA:199:G:C8	2.34	0.63
1:CA:637:G:H2'	1:CA:638:G:H8	1.63	0.63
1:CA:708:C:H2'	1:CA:709:G:H8	1.64	0.63
3:CC:69:HIS:N	3:CC:69:HIS:CD2	2.67	0.63
7:CG:62:PHE:HD1	7:CG:124:LEU:HD21	1.62	0.63
10:CJ:35:SER:O	10:CJ:72:VAL:HG13	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:46:GLN:HB3	35:DA:95:G:H4'	1.79	0.63
30:D5:51:TYR:CG	30:D5:52:TYR:N	2.66	0.63
31:D6:42:TRP:CE3	31:D6:42:TRP:HA	2.31	0.63
35:DA:1771:C:H1'	35:DA:1786:A:C8	2.33	0.63
35:DA:1885:A:H5'	35:DA:1885:A:H8	1.64	0.63
40:DF:7:TYR:HD2	40:DF:16:GLY:H	1.46	0.63
40:DF:24:LEU:CB	40:DF:25:PRO:HD2	2.22	0.63
45:DN:4:TYR:HB2	52:DU:64:ARG:HH12	1.61	0.63
51:DT:85:LYS:HB3	51:DT:85:LYS:HZ2	1.61	0.63
54:DW:64:MET:O	54:DW:65:LEU:HB3	1.99	0.63
1:AA:1054:C:O2'	1:AA:1055:A:H5'	1.98	0.63
7:AG:140:ASP:O	7:AG:144:MET:HG2	1.99	0.63
12:AL:37:CYS:HA	12:AL:58:VAL:HG22	1.80	0.63
12:AL:40:VAL:HG21	12:AL:78:GLN:O	1.98	0.63
12:AL:75:HIS:C	12:AL:77:LEU:H	2.07	0.63
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.29	0.63
31:B6:5:VAL:HG13	31:B6:7:ILE:H	1.63	0.63
35:BA:2134:A:H1'	35:BA:2159:G:N2	2.13	0.63
46:BO:2:ILE:HD11	46:BO:82:ASN:ND2	2.09	0.63
47:BP:29:LYS:N	47:BP:29:LYS:HD2	2.13	0.63
51:BT:63:VAL:O	51:BT:73:GLU:HA	1.98	0.63
56:BY:7:VAL:HG21	56:BY:8:LYS:HZ2	1.62	0.63
1:CA:56:U:H2'	1:CA:57:G:C8	2.33	0.63
1:CA:105:G:H2'	1:CA:106:C:C6	2.34	0.63
1:CA:218:C:H5'	1:CA:470:C:H42	1.62	0.63
35:DA:1603:A:H8	35:DA:1603:A:H5'	1.64	0.63
35:DA:2273:A:H2'	35:DA:2274:A:C8	2.34	0.63
39:DE:87:GLU:OE1	39:DE:89:ASP:N	2.31	0.63
39:DE:91:VAL:HG13	39:DE:95:ILE:HG13	1.80	0.63
42:DH:17:VAL:O	42:DH:45:VAL:HG22	1.98	0.63
47:DP:108:LYS:C	47:DP:110:TYR:H	2.06	0.63
1:AA:56:U:H2'	1:AA:57:G:C8	2.32	0.63
1:AA:190:U:H2'	1:AA:191:G:H8	1.63	0.63
1:AA:202:U:H3'	1:AA:203:U:C5	2.34	0.63
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.34	0.63
2:AB:114:ARG:O	2:AB:118:LEU:HG	1.98	0.63
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	1.99	0.63
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.09	0.63
22:AV:20:G:N2	22:AV:58:C:C2	2.66	0.63
27:B2:53:LEU:O	27:B2:57:ILE:HG12	1.97	0.63
29:B4:10:VAL:HG13	29:B4:11:PRO:HD2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:142:A:H5"	35:BA:142(A):C:H5	1.62	0.63
35:BA:634:C:H2'	35:BA:635:C:C6	2.34	0.63
35:BA:1019:U:O2'	35:BA:1021:A:C2	2.49	0.63
35:BA:1280:G:H2'	35:BA:1281:G:H5"	1.80	0.63
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.64	0.63
38:BD:30:GLU:CD	38:BD:63:ARG:HE	2.07	0.63
39:BE:101:ARG:HB2	39:BE:201:THR:HG21	1.80	0.63
49:BR:10:LEU:CB	49:BR:17:ARG:HD3	2.26	0.63
1:CA:591:U:H2'	1:CA:592:G:C8	2.33	0.63
1:CA:862:C:O2'	1:CA:863:U:H5'	1.98	0.63
1:CA:1107:C:H3'	1:CA:1108:G:H5"	1.81	0.63
1:CA:1321:C:C3'	1:CA:1322:C:H5"	2.28	0.63
4:CD:173:TRP:CD2	4:CD:189:PRO:HB3	2.33	0.63
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.79	0.63
23:CW:43:G:H2'	23:CW:44:A:C8	2.33	0.63
30:D5:2:ALA:N	35:DA:2015:A:H1'	2.13	0.63
35:DA:2638:G:P	39:DE:82:ARG:HH21	2.21	0.63
40:DF:192:LEU:CD2	40:DF:194:MET:HG3	2.28	0.63
46:DO:88:ASN:ND2	46:DO:90:GLN:HB2	2.08	0.63
1:AA:165:C:H2'	1:AA:166:G:C8	2.32	0.63
1:AA:1320:C:H42	19:AS:36:ARG:HG3	1.61	0.63
2:AB:44:LEU:H	2:AB:44:LEU:CD1	2.10	0.63
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.80	0.63
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.80	0.63
2:AB:178:ARG:HH21	8:AH:68:ARG:NH2	1.93	0.63
3:AC:8:ILE:C	3:AC:10:PHE:H	2.07	0.63
3:AC:69:HIS:CD2	3:AC:69:HIS:N	2.67	0.63
9:AI:97:LYS:HA	9:AI:102:LEU:HD12	1.81	0.63
35:BA:622:G:O2'	35:BA:623:G:H5'	1.99	0.63
35:BA:2807:G:C2'	35:BA:2808:U:H5"	2.28	0.63
38:BD:24:ILE:CG1	38:BD:25:THR:N	2.61	0.63
43:BI:124:GLY:O	43:BI:142:VAL:HB	1.99	0.63
52:BU:92:ARG:NH1	53:BV:11:GLN:O	2.31	0.63
57:BZ:116:VAL:O	57:BZ:174:VAL:HA	1.99	0.63
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.09	0.63
2:CB:112:VAL:C	2:CB:114:ARG:H	2.05	0.63
22:CV:49:G:H3'	22:CV:50:C:C5'	2.29	0.63
22:CY:19:G:C6	57:DZ:184:ALA:C	2.76	0.63
30:D5:54:GLY:C	30:D5:55:ARG:NE	2.57	0.63
34:D9:18:ARG:CD	35:DA:1034:G:H5'	2.29	0.63
35:DA:1614:A:N1	54:DW:91:GLY:HA2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:49:C:H2'	36:DB:50:G:H8	1.63	0.63
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.64	0.63
47:DP:112:LEU:HD22	47:DP:113:LYS:H	1.63	0.63
51:DT:80:SER:CB	51:DT:81:PRO:CD	2.77	0.63
53:DV:47:VAL:HB	53:DV:49:THR:O	1.97	0.63
56:DY:7:VAL:CG2	56:DY:8:LYS:NZ	2.61	0.63
56:DY:45:VAL:HA	56:DY:62:GLU:HB2	1.80	0.63
1:AA:69:G:H2'	1:AA:70:G:C8	2.33	0.63
1:AA:762:C:H2'	1:AA:763:G:C8	2.34	0.63
1:AA:1107:C:H3'	1:AA:1108:G:H5"	1.80	0.63
3:AC:134:ILE:HD11	3:AC:153:VAL:CG2	2.27	0.63
4:AD:13:ARG:O	4:AD:16:GLY:N	2.32	0.63
4:AD:17:VAL:O	4:AD:19:LEU:HD12	1.99	0.63
9:AI:15:ALA:HB2	9:AI:65:VAL:HG23	1.81	0.63
15:AO:29:VAL:HG11	15:AO:81:LEU:HD21	1.79	0.63
16:AP:59:TRP:O	16:AP:64:ALA:HB3	1.99	0.63
16:AP:74:LEU:O	16:AP:79:VAL:HG23	1.98	0.63
24:AX:20:U:H2'	24:AX:21:A:C8	2.33	0.63
22:AY:70:G:H2'	22:AY:71:G:O4'	1.98	0.63
31:B6:23:THR:HG21	35:BA:2419:U:C5'	2.28	0.63
35:BA:2777:G:H4'	35:BA:2778:A:H5'	1.81	0.63
38:BD:58:HIS:CD2	38:BD:59:LYS:N	2.67	0.63
51:BT:28:VAL:O	51:BT:29:ARG:HD3	1.99	0.63
56:BY:95:LYS:HG2	56:BY:101:LYS:N	2.14	0.63
1:CA:630:G:H2'	1:CA:631:G:C5'	2.27	0.63
1:CA:1395:C:H5"	1:CA:1402:C:H4'	1.81	0.63
2:CB:11:LEU:HD12	2:CB:217:ARG:NH2	2.13	0.63
5:CE:50:GLU:HB3	5:CE:53:LEU:HD12	1.81	0.63
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.25	0.63
6:CF:45:LEU:HD23	6:CF:45:LEU:C	2.24	0.63
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.61	0.63
12:CL:43:VAL:HG13	12:CL:55:VAL:CG2	2.28	0.63
23:CW:20:G:P	23:CW:21:U:H5	2.21	0.63
35:DA:1803:A:H4'	38:DD:259:THR:CG2	2.28	0.63
35:DA:2653:U:O2'	42:DH:110:SER:HB2	1.98	0.63
35:DA:2762:G:H2'	35:DA:2763:G:H5'	1.80	0.63
45:DN:96:GLU:OE1	45:DN:96:GLU:N	2.25	0.63
46:DO:96:THR:O	46:DO:97:ARG:HG2	1.99	0.63
50:DS:67:ARG:HB3	50:DS:67:ARG:NH1	2.12	0.63
50:DS:74:ALA:HB1	50:DS:103:GLU:CB	2.29	0.63
51:DT:88:ILE:HG22	51:DT:89:VAL:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:102:ILE:O	51:DT:106:SER:HB3	1.98	0.63
1:AA:600:C:OP1	8:AH:97:VAL:HG12	1.99	0.63
1:AA:1452:C:H4'	1:AA:1456:G:H5"	1.81	0.63
2:AB:112:VAL:C	2:AB:114:ARG:H	2.05	0.63
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.28	0.63
9:AI:46:ALA:HA	9:AI:78:LYS:HB2	1.81	0.63
13:AM:23:TYR:CE2	13:AM:70:LEU:HD22	2.32	0.63
33:B8:10:ALA:O	33:B8:14:VAL:HG12	1.99	0.63
35:BA:286:C:H2'	35:BA:287:C:C6	2.33	0.63
35:BA:1761:C:H3'	35:BA:1762:A:C8	2.34	0.63
35:BA:2808:U:O2'	35:BA:2809:A:H5'	1.99	0.63
41:BG:133:LEU:HD12	41:BG:133:LEU:C	2.24	0.63
43:BI:126:TYR:H	43:BI:140:LEU:CD2	2.08	0.63
51:BT:65:LYS:HE3	51:BT:66:VAL:H	1.64	0.63
1:CA:424:G:O2'	1:CA:425:G:H5'	1.97	0.63
1:CA:821:G:H2'	1:CA:822:C:H6	1.64	0.63
2:CB:18:GLY:O	2:CB:19:HIS:HB2	1.99	0.63
9:CI:97:LYS:HA	9:CI:102:LEU:HD12	1.80	0.63
17:CQ:9:VAL:HG11	17:CQ:84:LEU:CD1	2.29	0.63
18:CR:25:THR:HG22	18:CR:25:THR:O	1.99	0.63
22:CV:20:G:H4'	22:CV:21:U:OP2	1.99	0.63
30:D5:53:ALA:HB3	30:D5:55:ARG:HH21	1.63	0.63
35:DA:963:U:H2'	35:DA:964:C:H6	1.63	0.63
35:DA:1541:G:H4'	35:DA:1542:A:C5'	2.28	0.63
35:DA:2377:A:H2'	35:DA:2378:A:C8	2.34	0.63
38:DD:45:ASN:ND2	38:DD:50:THR:HG21	2.14	0.63
38:DD:58:HIS:CD2	38:DD:59:LYS:N	2.67	0.63
42:DH:149:ARG:CA	42:DH:162:ILE:HD11	2.28	0.63
43:DI:93:THR:O	43:DI:97:ILE:N	2.31	0.63
43:DI:124:GLY:O	43:DI:142:VAL:HB	1.99	0.63
45:DN:57:ALA:N	45:DN:124:ALA:HA	2.11	0.63
47:DP:50:ARG:HH11	47:DP:50:ARG:HG2	1.64	0.63
48:DQ:130:LYS:HZ3	57:DZ:80:ARG:HD2	1.63	0.63
51:DT:29:ARG:HB3	51:DT:85:LYS:HA	1.81	0.63
51:DT:57:PHE:O	51:DT:59:THR:N	2.31	0.63
52:DU:12:ARG:HA	52:DU:15:LYS:HE2	1.80	0.63
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.64	0.63
2:AB:80:ILE:H	2:AB:80:ILE:CD1	1.99	0.63
2:AB:219:VAL:O	2:AB:223:ILE:HG13	1.99	0.63
20:AT:12:ALA:O	20:AT:15:ARG:HB2	1.98	0.63
23:AW:71:G:C2'	23:AW:72:C:H5'	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:24:A:C2	22:AY:25:A:C8	2.86	0.63
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.64	0.63
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.79	0.63
35:BA:2781:A:H5"	35:BA:2782:G:H5'	1.80	0.63
37:BC:44:VAL:HG13	37:BC:215:VAL:HG22	1.80	0.63
41:BG:152:LEU:HD23	41:BG:152:LEU:N	2.10	0.63
43:BI:109:ILE:HG22	43:BI:110:ASP:N	2.10	0.63
43:BI:114:LEU:O	43:BI:131:LYS:HE3	1.99	0.63
46:BO:1:MET:HE2	46:BO:32:TYR:CD2	2.33	0.63
46:BO:15:GLY:O	46:BO:47:ILE:HG22	1.99	0.63
51:BT:100:TYR:HD2	51:BT:103:ARG:NH2	1.96	0.63
1:CA:1502:A:H2	1:CA:1505:G:N2	1.96	0.63
7:CG:5:ARG:C	7:CG:7:ALA:H	2.07	0.63
8:CH:51:VAL:HG11	8:CH:60:ARG:CD	2.24	0.63
12:CL:75:HIS:C	12:CL:77:LEU:H	2.07	0.63
14:CN:43:CYS:SG	58:CN:1000:ZN:ZN	1.85	0.63
35:DA:61:G:H1	35:DA:94:C:H42	1.47	0.63
35:DA:672:C:C2'	35:DA:673:C:C5'	2.76	0.63
35:DA:1019:U:H3	35:DA:1142(A):A:N6	1.97	0.63
35:DA:1318:C:C3'	35:DA:1319:G:H5"	2.28	0.63
35:DA:1719:G:O2'	35:DA:1720:U:H5'	1.99	0.63
35:DA:1786:A:H2	35:DA:2606:C:H1'	1.63	0.63
35:DA:2777:G:H4'	35:DA:2778:A:H5'	1.80	0.63
38:DD:186:HIS:HD2	38:DD:188:GLU:HB2	1.64	0.63
41:DG:31:VAL:CG2	41:DG:32:PRO:HD2	2.28	0.63
46:DO:121:VAL:O	46:DO:122:LEU:HD23	1.99	0.63
50:DS:54:LEU:HD22	50:DS:58:LEU:H	1.63	0.63
53:DV:45:THR:O	53:DV:46:VAL:HG12	1.98	0.63
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.97	0.62
1:AA:1096:C:O2'	1:AA:1097:C:H5'	1.99	0.62
7:AG:20:ASP:HB3	7:AG:23:VAL:CG2	2.29	0.62
12:AL:22:SER:O	12:AL:24:VAL:N	2.32	0.62
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	1.81	0.62
22:AY:58:C:OP2	57:BZ:182:LYS:HD3	1.99	0.62
30:B5:53:ALA:C	30:B5:55:ARG:HE	2.07	0.62
35:BA:315:G:H2'	35:BA:316:C:C6	2.34	0.62
35:BA:963:U:H2'	35:BA:964:C:H6	1.63	0.62
35:BA:1431:U:O2'	35:BA:1432:C:H5'	1.99	0.62
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.64	0.62
38:BD:31:LYS:O	38:BD:33:LEU:N	2.32	0.62
38:BD:58:HIS:HD2	38:BD:59:LYS:N	1.95	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:27:ASN:O	41:BG:29:TRP:N	2.32	0.62
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	1.79	0.62
46:BO:114:ILE:HD12	46:BO:114:ILE:N	2.14	0.62
54:BW:64:MET:O	54:BW:65:LEU:HB3	1.98	0.62
1:CA:521:G:O2'	1:CA:522:C:H5'	1.98	0.62
2:CB:12:GLU:C	2:CB:14:GLY:H	2.07	0.62
2:CB:210:SER:O	2:CB:214:ILE:HG12	1.99	0.62
2:CB:213:LEU:O	2:CB:213:LEU:HD23	1.97	0.62
3:CC:14:ILE:HG12	3:CC:15:THR:N	2.11	0.62
3:CC:58:GLU:HB2	3:CC:65:ALA:CB	2.29	0.62
6:CF:6:VAL:HG13	6:CF:90:VAL:HG22	1.81	0.62
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.29	0.62
11:CK:59:TYR:O	11:CK:62:GLN:HB3	1.99	0.62
12:CL:93:LEU:O	12:CL:96:VAL:HB	1.99	0.62
23:CW:11:C:H2'	23:CW:12:U:N1	2.13	0.62
23:CW:58:C:H42	35:DA:2169:A:H1'	1.63	0.62
22:CY:6:C:N3	22:CY:69:G:O6	2.31	0.62
35:DA:1204:A:N1	35:DA:1241:A:H2	1.96	0.62
35:DA:2327:A:H2'	35:DA:2328:A:H8	1.60	0.62
35:DA:2477:C:H5'	35:DA:2477:C:H6	1.63	0.62
41:DG:107:LEU:HD13	41:DG:177:GLY:O	1.98	0.62
46:DO:104:ARG:HE	51:DT:33:LYS:CE	2.12	0.62
53:DV:18:LEU:CG	53:DV:19:LYS:H	2.07	0.62
56:DY:2:ARG:HD3	56:DY:3:VAL:HG23	1.80	0.62
1:AA:142:G:H2'	1:AA:143:A:C8	2.34	0.62
1:AA:157:G:H2'	1:AA:158:G:H8	1.64	0.62
5:AE:141:GLN:HA	5:AE:143:ARG:NH2	2.14	0.62
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.14	0.62
6:AF:26:ILE:O	6:AF:30:LEU:HG	1.99	0.62
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.14	0.62
13:AM:25:ILE:HD11	13:AM:60:VAL:HG11	1.80	0.62
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.79	0.62
25:B0:43:THR:HG22	35:BA:2331:G:O2'	1.99	0.62
38:BD:32:SER:O	38:BD:36:PRO:HG3	1.99	0.62
41:BG:16:ARG:HD3	41:BG:31:VAL:HG21	1.80	0.62
41:BG:91:ARG:HD2	41:BG:91:ARG:C	2.24	0.62
42:BH:17:VAL:O	42:BH:45:VAL:HG22	1.99	0.62
43:BI:130:TYR:HD1	43:BI:131:LYS:H	1.48	0.62
45:BN:57:ALA:N	45:BN:124:ALA:HA	2.10	0.62
57:BZ:145:GLU:OE1	57:BZ:146:ILE:HG12	1.98	0.62
1:CA:69:G:H2'	1:CA:70:G:H8	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1432:G:OP2	51:DT:108:ARG:HD3	1.99	0.62
2:CB:80:ILE:CD1	2:CB:208:ILE:HG23	2.25	0.62
3:CC:82:GLU:O	3:CC:86:VAL:HG22	1.99	0.62
4:CD:13:ARG:O	4:CD:16:GLY:N	2.31	0.62
7:CG:26:PHE:HB2	7:CG:62:PHE:HZ	1.64	0.62
10:CJ:8:LEU:HD13	10:CJ:20:ALA:HB2	1.80	0.62
20:CT:51:GLU:HA	20:CT:54:LYS:NZ	2.15	0.62
22:CV:77:C:H5'	22:CV:77:C:H6	1.63	0.62
22:CY:57:U:H2'	57:DZ:182:LYS:NZ	2.14	0.62
35:DA:102:G:OP1	35:DA:102:G:H4'	1.99	0.62
35:DA:1281:G:H5'	35:DA:1281:G:C8	2.33	0.62
35:DA:2845:G:O2'	35:DA:2846:G:H5'	1.99	0.62
41:DG:148:MET:HG2	41:DG:148:MET:O	1.98	0.62
46:DO:1:MET:HE2	46:DO:32:TYR:CD2	2.33	0.62
54:DW:6:ILE:HG12	54:DW:104:THR:OG1	1.99	0.62
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.35	0.62
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	1.81	0.62
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.99	0.62
7:AG:62:PHE:HD1	7:AG:124:LEU:HD21	1.64	0.62
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.33	0.62
9:AI:20:ARG:HH11	9:AI:20:ARG:HG3	1.64	0.62
9:AI:95:LYS:HD3	9:AI:96:LEU:N	2.14	0.62
12:AL:86:ARG:NH2	12:AL:99:HIS:ND1	2.48	0.62
22:AV:4:C:N1	22:AV:5:C:C5	2.67	0.62
23:AW:17:C:H5"	23:AW:18:U:C5	2.34	0.62
22:AY:9:A:C6	22:AY:47:G:C6	2.87	0.62
35:BA:613:G:H8	35:BA:613:G:C5'	2.12	0.62
35:BA:1204:A:N1	35:BA:1241:A:H2	1.97	0.62
35:BA:1286:A:O2'	35:BA:1288:U:OP2	2.12	0.62
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.34	0.62
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.29	0.62
50:BS:34:HIS:CE1	50:BS:54:LEU:HB3	2.34	0.62
50:BS:54:LEU:CD2	50:BS:58:LEU:H	2.12	0.62
1:CA:624:C:H2'	1:CA:625:G:H8	1.64	0.62
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.81	0.62
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.00	0.62
4:CD:17:VAL:O	4:CD:19:LEU:HD12	1.99	0.62
8:CH:98:LYS:HG3	8:CH:99:GLU:HG3	1.81	0.62
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.14	0.62
11:CK:109:VAL:HG13	18:CR:85:LEU:O	1.98	0.62
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:49:G:OP1	23:CW:49:G:H8	1.83	0.62
22:CY:63:C:C5'	57:DZ:186:GLU:CG	2.77	0.62
35:DA:2439:A:H5'	35:DA:2439:A:C8	2.34	0.62
47:DP:112:LEU:C	47:DP:112:LEU:HD13	2.23	0.62
47:DP:114:ILE:HD12	47:DP:115:LEU:N	2.15	0.62
48:DQ:134:ARG:HA	48:DQ:137:TYR:CD2	2.34	0.62
1:AA:180:U:C2'	1:AA:181:G:C5'	2.76	0.62
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.81	0.62
4:AD:79:PHE:C	4:AD:79:PHE:CD1	2.75	0.62
9:AI:2:GLU:O	9:AI:3:GLN:HG3	1.99	0.62
10:AJ:35:SER:O	10:AJ:72:VAL:HG13	2.00	0.62
12:AL:91:LYS:O	12:AL:91:LYS:HG3	1.98	0.62
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.13	0.62
22:AV:49:G:H3'	22:AV:50:C:C5'	2.28	0.62
23:AW:3:G:H1	23:AW:73:C:H42	1.47	0.62
27:B2:12:GLU:O	27:B2:15:LYS:HG2	1.98	0.62
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.35	0.62
35:BA:991:C:H5'	35:BA:991:C:C6	2.30	0.62
35:BA:1803:A:H4'	38:BD:259:THR:CG2	2.29	0.62
35:BA:2777:G:H5"	35:BA:2778:A:C5'	2.30	0.62
41:BG:154:GLY:O	41:BG:155:MET:HB3	1.99	0.62
45:BN:73:THR:HG21	45:BN:82:LEU:HD11	1.80	0.62
51:BT:88:ILE:HG22	51:BT:89:VAL:H	1.65	0.62
1:CA:142:G:H2'	1:CA:143:A:C8	2.34	0.62
1:CA:190:U:H2'	1:CA:191:G:H8	1.64	0.62
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.34	0.62
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.64	0.62
4:CD:65:ARG:HD2	4:CD:72:GLU:HA	1.80	0.62
9:CI:77:ILE:O	9:CI:81:ILE:HG12	2.00	0.62
10:CJ:4:ILE:HD12	10:CJ:4:ILE:N	2.15	0.62
22:CV:30:U:O2'	22:CV:31:C:H5'	1.99	0.62
22:CY:57:U:C5	57:DZ:183:LEU:N	2.67	0.62
26:D1:22:GLY:O	26:D1:32:LYS:HE3	1.98	0.62
31:D6:42:TRP:HA	31:D6:42:TRP:HE3	1.62	0.62
33:D8:56:GLU:HA	33:D8:59:LYS:HZ1	1.63	0.62
35:DA:1270:C:H5"	35:DA:1271:G:O5'	1.99	0.62
47:DP:50:ARG:HG2	47:DP:50:ARG:NH1	2.14	0.62
50:DS:95:HIS:CG	50:DS:96:GLY:H	2.17	0.62
52:DU:47:TYR:HA	52:DU:50:ARG:NH1	2.15	0.62
1:AA:502:G:OP1	12:AL:118:SER:HB3	2.00	0.62
2:AB:18:GLY:O	2:AB:19:HIS:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:148:VAL:HG21	8:AH:107:LEU:CD2	2.26	0.62
23:AW:40:A:H2	23:AW:42:C:OP2	1.82	0.62
22:AY:73:C:H2'	22:AY:74:C:O4'	2.00	0.62
27:B2:68:ARG:CG	27:B2:68:ARG:HH11	2.12	0.62
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.65	0.62
35:BA:1899:G:N2	35:BA:1902:C:N4	2.26	0.62
38:BD:27:THR:O	38:BD:27:THR:HG23	1.99	0.62
47:BP:71:VAL:HG13	47:BP:72:PRO:HD3	1.80	0.62
49:BR:31:HIS:C	49:BR:33:ARG:H	2.08	0.62
52:BU:79:PHE:CD1	52:BU:83:LEU:HD21	2.33	0.62
57:BZ:42:VAL:HG13	57:BZ:43:GLU:H	1.64	0.62
57:BZ:152:ALA:CA	57:BZ:167:PRO:HB2	2.29	0.62
1:CA:348:G:C2'	1:CA:349:A:H5'	2.29	0.62
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.14	0.62
3:CC:8:ILE:C	3:CC:10:PHE:H	2.07	0.62
3:CC:162:GLN:HG2	24:CX:24:A:C4'	2.29	0.62
4:CD:162:LEU:O	4:CD:162:LEU:HD23	1.99	0.62
5:CE:40:ARG:HG2	5:CE:40:ARG:HH11	1.64	0.62
6:CF:101:ALA:HA	18:CR:28:GLU:HG2	1.79	0.62
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.14	0.62
22:CY:1:G:C2'	22:CY:2:G:H5'	2.30	0.62
22:CY:27:C:H2'	22:CY:28:G:H8	1.63	0.62
22:CY:56:U:C5'	57:DZ:180:VAL:CG1	2.75	0.62
34:D9:3:VAL:HG21	35:DA:2539:C:C5'	2.29	0.62
35:DA:330:A:O2'	35:DA:331:A:H8	1.82	0.62
35:DA:469:G:C2'	35:DA:470:A:H5"	2.30	0.62
35:DA:634:C:H2'	35:DA:635:C:C6	2.34	0.62
35:DA:1015:G:O2'	35:DA:1016:G:H5'	2.00	0.62
35:DA:2360:A:O2'	35:DA:2361:A:O4'	2.17	0.62
37:DC:216:THR:HB	37:DC:222:SER:HB3	1.81	0.62
41:DG:55:LYS:C	41:DG:57:ALA:H	2.08	0.62
46:DO:64:ARG:HG2	46:DO:79:PHE:CG	2.35	0.62
51:DT:28:VAL:HG22	51:DT:46:GLU:CA	2.29	0.62
57:DZ:42:VAL:CG1	57:DZ:43:GLU:H	2.07	0.62
1:AA:382:A:H2'	1:AA:383:A:H8	1.65	0.62
1:AA:434:U:H2'	1:AA:435:C:H6	1.65	0.62
1:AA:473:G:H2'	1:AA:474:G:H8	1.63	0.62
2:AB:210:SER:O	2:AB:214:ILE:HG12	2.00	0.62
3:AC:138:VAL:HG22	3:AC:151:VAL:HG23	1.80	0.62
4:AD:162:LEU:O	4:AD:162:LEU:HD23	1.99	0.62
7:AG:26:PHE:HB2	7:AG:62:PHE:HZ	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:8:LEU:HD13	10:AJ:20:ALA:HB2	1.82	0.62
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.14	0.62
22:AY:58:C:C2	22:AY:59:G:C8	2.87	0.62
22:AY:63:C:C2	57:BZ:186:GLU:OE1	2.52	0.62
35:BA:570:G:H2'	35:BA:2030:A:C5	2.35	0.62
35:BA:1578:U:H2'	35:BA:1579:A:H5'	1.81	0.62
38:BD:181:GLU:HA	38:BD:272:ALA:CB	2.29	0.62
39:BE:107:THR:HA	39:BE:163:GLU:O	1.99	0.62
46:BO:114:ILE:HD12	46:BO:114:ILE:H	1.65	0.62
47:BP:144:GLU:N	47:BP:145:PRO:CD	2.54	0.62
1:CA:189(I):G:H2'	1:CA:189(J):G:H8	1.64	0.62
1:CA:489:C:O5'	1:CA:489:C:H6	1.81	0.62
1:CA:908:A:H2'	1:CA:909:A:C8	2.34	0.62
1:CA:1005:A:H8	1:CA:1006:C:O4'	1.80	0.62
2:CB:15:VAL:HG23	2:CB:16:HIS:CE1	2.34	0.62
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.81	0.62
3:CC:182:ILE:HG23	3:CC:202:ILE:O	1.99	0.62
25:D0:27:GLU:N	25:D0:27:GLU:OE1	2.30	0.62
35:DA:1434:A:H61	35:DA:1558:A:N6	1.97	0.62
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.64	0.62
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.82	0.62
35:DA:2312:U:H2'	35:DA:2313:C:H5"	1.81	0.62
35:DA:2464:C:O2'	35:DA:2465:C:H6	1.82	0.62
35:DA:2869:G:H2'	35:DA:2870:C:C6	2.35	0.62
44:DJ:67:UNK:HA	44:DJ:71:UNK:O	1.99	0.62
47:DP:16:ARG:CD	47:DP:18:ARG:H	2.11	0.62
48:DQ:36:ALA:HB2	48:DQ:103:MET:SD	2.40	0.62
48:DQ:132:VAL:HG11	57:DZ:81:ARG:NH2	2.02	0.62
50:DS:34:HIS:CE1	50:DS:54:LEU:HB3	2.35	0.62
51:DT:100:TYR:HD2	51:DT:103:ARG:NH2	1.98	0.62
1:AA:19:C:H5"	5:AE:86:ALA:HB2	1.79	0.62
1:AA:539:A:H2'	1:AA:540:G:C8	2.34	0.62
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.30	0.62
1:AA:1152:A:C5'	10:AJ:70:ARG:HH22	2.04	0.62
8:AH:91:ARG:HH12	17:AQ:33:GLY:HA3	1.64	0.62
9:AI:17:VAL:HG22	9:AI:63:ILE:HD13	1.81	0.62
10:AJ:31:GLY:HA3	10:AJ:78:ASN:HD22	1.65	0.62
12:AL:90:VAL:O	12:AL:92:ASP:N	2.32	0.62
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.99	0.62
23:AW:30:U:C4	23:AW:31:C:N4	2.68	0.62
25:B0:25:ARG:HA	25:B0:29:GLN:HE22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:13:ARG:O	33:B8:14:VAL:HB	1.98	0.62
35:BA:1614:A:N1	54:BW:91:GLY:HA2	2.15	0.62
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.53	0.62
35:BA:2312:U:H2'	35:BA:2313:C:H5"	1.80	0.62
35:BA:2732:G:O2'	35:BA:2733:A:H5'	1.99	0.62
39:BE:44:TYR:O	39:BE:45:THR:HB	2.00	0.62
45:BN:57:ALA:O	45:BN:58:ASP:O	2.17	0.62
47:BP:10:PRO:O	47:BP:11:GLY:C	2.42	0.62
57:BZ:72:ARG:HH11	57:BZ:72:ARG:HG3	1.63	0.62
57:BZ:81:ARG:HH11	57:BZ:81:ARG:CB	2.13	0.62
1:CA:542:G:H2'	1:CA:543:C:H6	1.65	0.62
1:CA:762:C:H2'	1:CA:763:G:C8	2.35	0.62
2:CB:91:PRO:CG	2:CB:155:LEU:HD23	2.26	0.62
2:CB:166:ASP:CB	2:CB:169:LYS:HB2	2.29	0.62
7:CG:50:ILE:O	7:CG:54:THR:HG22	2.00	0.62
9:CI:20:ARG:HG3	9:CI:20:ARG:HH11	1.64	0.62
16:CP:74:LEU:O	16:CP:79:VAL:HG23	1.99	0.62
22:CV:5:C:N3	22:CV:71:G:C6	2.67	0.62
23:CW:33:G:H2'	23:CW:34:C:C4'	2.29	0.62
22:CY:56:U:C2'	57:DZ:182:LYS:O	2.47	0.62
35:DA:108:U:H2'	35:DA:109:G:C8	2.35	0.62
35:DA:774:A:H2	35:DA:787:U:HO2'	1.45	0.62
38:DD:30:GLU:CD	38:DD:63:ARG:HE	2.08	0.62
42:DH:44:VAL:O	42:DH:46:GLU:N	2.31	0.62
43:DI:127:VAL:HG22	43:DI:139:GLN:HB3	1.81	0.62
4:AD:33:MET:O	4:AD:37:PRO:HG3	1.99	0.62
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	2.00	0.62
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.00	0.62
15:AO:61:GLY:O	15:AO:65:ARG:HD3	1.98	0.62
30:B5:53:ALA:HB3	30:B5:55:ARG:HH21	1.61	0.62
34:B9:3:VAL:HG21	35:BA:2539:C:C5'	2.30	0.62
35:BA:1221:C:H5'	35:BA:1221:C:H6	1.65	0.62
35:BA:1541:G:H5"	35:BA:1542:A:O5'	2.00	0.62
35:BA:2155:G:H2'	35:BA:2156:G:O4'	2.00	0.62
40:BF:7:TYR:HB3	40:BF:16:GLY:N	2.15	0.62
40:BF:164:ARG:HH11	40:BF:164:ARG:HG2	1.64	0.62
49:BR:7:GLY:C	49:BR:8:ARG:HE	2.07	0.62
50:BS:54:LEU:HD22	50:BS:58:LEU:H	1.65	0.62
1:CA:1023:G:H2'	1:CA:1023:G:N3	2.15	0.62
1:CA:1106:G:H2'	1:CA:1107:C:C6	2.34	0.62
4:CD:18:LYS:HB2	4:CD:33:MET:HG2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:79:LEU:HD13	9:CI:79:LEU:O	1.99	0.62
23:CW:33:G:N2	23:CW:40:A:H62	1.97	0.62
23:CW:71:G:C6	23:CW:72:C:C5	2.87	0.62
22:CY:73:C:H2'	22:CY:74:C:O4'	1.99	0.62
28:D3:52:HIS:CG	36:DB:83:G:H4'	2.35	0.62
29:D4:10:VAL:HG13	29:D4:11:PRO:HD2	1.81	0.62
31:D6:23:THR:HG21	35:DA:2419:U:C5'	2.28	0.62
35:DA:1493:C:H2'	35:DA:1493:C:O2	1.99	0.62
35:DA:1818:U:H2'	38:DD:157:ARG:HG3	1.82	0.62
35:DA:1856:G:H2'	35:DA:1857:G:H5'	1.81	0.62
35:DA:2632:A:O2'	39:DE:61:ARG:NH2	2.32	0.62
42:DH:9:ILE:HD11	42:DH:76:VAL:HG21	1.82	0.62
43:DI:120:ILE:HG22	43:DI:121:LYS:N	2.15	0.62
57:DZ:156:LYS:O	57:DZ:158:PRO:HD3	2.00	0.62
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.17	0.62
1:AA:511:C:H1'	4:AD:43:HIS:HE2	1.65	0.62
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.82	0.62
1:AA:1104:G:O2'	1:AA:1105:A:H5'	1.98	0.62
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.00	0.62
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.00	0.62
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.30	0.62
22:AV:23:A:H2'	22:AV:23:A:N3	2.14	0.62
22:AY:76:C:OP1	25:B0:3:HIS:ND1	2.33	0.62
28:B3:8:LEU:HA	28:B3:54:VAL:HG22	1.82	0.62
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.00	0.62
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.65	0.62
40:BF:192:LEU:CD2	40:BF:194:MET:HG3	2.30	0.62
44:BJ:22:UNK:CB	44:BJ:119:UNK:HA	2.30	0.62
46:BO:13:ASN:ND2	46:BO:97:ARG:HB2	2.14	0.62
47:BP:112:LEU:HD22	47:BP:113:LYS:H	1.64	0.62
50:BS:54:LEU:HD22	50:BS:57:LYS:HA	1.81	0.62
53:BV:45:THR:O	53:BV:46:VAL:HG12	2.00	0.62
55:BX:66:LEU:O	55:BX:66:LEU:HD23	2.00	0.62
57:BZ:183:LEU:CD1	57:BZ:184:ALA:H	2.10	0.62
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.18	0.62
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.63	0.62
4:CD:196:LEU:H	4:CD:196:LEU:HD12	1.65	0.62
14:CN:4:LYS:O	14:CN:7:ILE:HG12	2.00	0.62
16:CP:59:TRP:O	16:CP:64:ALA:HB3	2.00	0.62
22:CV:43:G:C6	22:CV:44:A:C5	2.88	0.62
22:CY:11:C:N4	22:CY:47:G:N2	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:45:ASN:HD21	26:D1:47:GLN:NE2	1.96	0.62
26:D1:80:LEU:HB3	26:D1:82:LEU:CD1	2.29	0.62
26:D1:93:GLU:O	26:D1:94:LEU:C	2.42	0.62
35:DA:27:G:N2	35:DA:512:G:O2'	2.33	0.62
35:DA:1856:G:C2'	35:DA:1857:G:H5'	2.29	0.62
35:DA:2292:C:O2'	35:DA:2293:C:H5'	1.99	0.62
37:DC:16:ASP:HB3	37:DC:19:LYS:HB3	1.80	0.62
41:DG:64:THR:HG23	41:DG:66:GLN:H	1.65	0.62
53:DV:25:LEU:H	53:DV:92:THR:HG21	1.65	0.62
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB3	1.82	0.62
13:AM:15:VAL:HG23	13:AM:16:ASP:N	2.14	0.62
23:AW:4:C:O2'	23:AW:5:C:OP2	2.17	0.62
31:B6:52:VAL:HG22	31:B6:53:LYS:H	1.65	0.62
35:BA:203:C:H3'	35:BA:204:A:H5"	1.80	0.62
35:BA:672:C:C2'	35:BA:673:C:C5'	2.78	0.62
35:BA:1038:C:C2'	35:BA:1039:G:H5"	2.29	0.62
35:BA:1312:U:OP2	55:BX:63:LYS:HD2	2.00	0.62
35:BA:1856:G:C2'	35:BA:1857:G:H5'	2.29	0.62
35:BA:2360:A:O2'	35:BA:2361:A:O4'	2.18	0.62
48:BQ:130:LYS:NZ	57:BZ:80:ARG:NH1	2.48	0.62
50:BS:83:LYS:HE3	50:BS:105:ALA:HB3	1.82	0.62
50:BS:106:ARG:O	50:BS:106:ARG:HD2	1.99	0.62
1:CA:73:G:H22	1:CA:96:U:H3	1.47	0.62
1:CA:243:A:H4'	1:CA:244:U:O5'	2.00	0.62
1:CA:422:C:H1'	1:CA:423:G:H22	1.65	0.62
3:CC:71:ALA:HB2	3:CC:106:VAL:HB	1.82	0.62
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.29	0.62
11:CK:32:ILE:O	11:CK:40:ILE:HG12	1.99	0.62
11:CK:56:GLY:O	11:CK:89:ALA:HB3	1.99	0.62
12:CL:40:VAL:CG2	12:CL:78:GLN:O	2.48	0.62
15:CO:82:ILE:HD13	15:CO:82:ILE:O	2.00	0.62
16:CP:72:ARG:HH21	16:CP:73:LEU:HD21	1.63	0.62
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.30	0.62
35:DA:535:C:O2'	35:DA:536:A:H5'	2.00	0.62
35:DA:915:C:O2'	35:DA:916:G:H5'	2.00	0.62
35:DA:1348:G:H2'	35:DA:1349:A:C5'	2.26	0.62
35:DA:1697:G:H3'	35:DA:1698:A:C5'	2.27	0.62
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.35	0.62
35:DA:2584:U:C2'	35:DA:2585:U:H5'	2.30	0.62
39:DE:101:ARG:HB3	39:DE:169:ASN:HD22	1.65	0.62
42:DH:106:THR:HG22	42:DH:112:PRO:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:8:PRO:HA	43:DI:14:ASP:H	1.64	0.62
43:DI:123:LEU:HD11	43:DI:144:VAL:HG22	1.82	0.62
1:AA:308:C:H2'	1:AA:309:G:H8	1.65	0.61
1:AA:358:U:H2'	1:AA:359:U:H6	1.64	0.61
1:AA:908:A:H2'	1:AA:909:A:H8	1.65	0.61
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.35	0.61
1:AA:1502:A:H2	1:AA:1505:G:H1	1.48	0.61
2:AB:11:LEU:HD12	2:AB:217:ARG:NH2	2.15	0.61
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.81	0.61
7:AG:79:ARG:HG3	7:AG:83:ALA:O	2.00	0.61
13:AM:3:ARG:HD3	29:B4:34:GLU:OE1	2.00	0.61
22:AV:58:C:C4	41:BG:84:LYS:HE2	2.35	0.61
23:AW:20:G:P	23:AW:21:U:C5	2.92	0.61
33:B8:13:ARG:HD2	47:BP:61:ARG:HD3	1.82	0.61
35:BA:706:A:C2	35:BA:707:G:H1'	2.35	0.61
35:BA:1486:A:H61	35:BA:1504:C:H42	1.47	0.61
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.00	0.61
40:BF:46:ARG:HH11	40:BF:46:ARG:HG3	1.65	0.61
40:BF:133:ASN:H	40:BF:133:ASN:HD22	1.48	0.61
42:BH:149:ARG:CA	42:BH:162:ILE:HD11	2.30	0.61
57:BZ:85:HIS:ND1	57:BZ:86:VAL:N	2.48	0.61
1:CA:511:C:H1'	4:CD:43:HIS:HE2	1.64	0.61
1:CA:1134:G:N2	1:CA:1141:C:H1'	2.14	0.61
1:CA:1169:A:H2'	1:CA:1170:A:H8	1.65	0.61
3:CC:107:GLN:H	3:CC:107:GLN:NE2	1.97	0.61
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.00	0.61
7:CG:73:MET:HA	7:CG:91:VAL:HG23	1.82	0.61
20:CT:23:ARG:HA	20:CT:26:ASN:HD21	1.65	0.61
22:CV:3:G:H1	22:CV:72:C:H42	1.47	0.61
22:CV:4:C:C2	22:CV:5:C:C5	2.88	0.61
22:CV:47:G:O2'	22:CV:48:G:H5'	1.99	0.61
24:CX:20:U:H2'	24:CX:21:A:C8	2.35	0.61
35:DA:2114:A:H2'	35:DA:2115:G:O4'	2.00	0.61
35:DA:2747:G:O6	35:DA:2755:C:H5"	2.00	0.61
37:DC:34:ALA:HB1	37:DC:40:GLU:CB	2.29	0.61
43:DI:130:TYR:HD1	43:DI:131:LYS:H	1.47	0.61
45:DN:3:THR:C	45:DN:4:TYR:CD1	2.78	0.61
45:DN:30:ILE:HG22	45:DN:34:LEU:CD2	2.30	0.61
50:DS:54:LEU:CD2	50:DS:58:LEU:H	2.13	0.61
52:DU:106:PHE:O	52:DU:110:VAL:HG23	2.00	0.61
55:DX:12:VAL:CG2	55:DX:17:ALA:HB1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:27:VAL:HG12	56:DY:29:GLU:OE1	1.99	0.61
1:AA:708:C:H2'	1:AA:709:G:H8	1.65	0.61
2:AB:51:LEU:HD23	2:AB:201:ILE:HD12	1.82	0.61
4:AD:49:ARG:HA	4:AD:49:ARG:HE	1.65	0.61
7:AG:5:ARG:C	7:AG:7:ALA:H	2.07	0.61
23:AW:71:G:N1	23:AW:72:C:C5	2.67	0.61
27:B2:64:LEU:O	27:B2:64:LEU:HD22	1.99	0.61
29:B4:7:PRO:HG2	41:BG:62:LEU:HD12	1.82	0.61
35:BA:914:C:C2'	35:BA:915:C:H5'	2.28	0.61
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.64	0.61
35:BA:2107:C:H5'	37:BC:3:LYS:HE3	1.82	0.61
35:BA:2638:G:P	39:BE:82:ARG:HH21	2.22	0.61
35:BA:2830:G:N3	35:BA:2883:A:H2	1.97	0.61
44:BJ:60:UNK:C	44:BJ:62:UNK:H	2.13	0.61
48:BQ:24:GLY:O	48:BQ:102:VAL:HG23	2.00	0.61
48:BQ:109:VAL:HG12	48:BQ:113:GLN:OE1	2.00	0.61
51:BT:25:GLY:O	51:BT:26:ASP:HB2	1.99	0.61
52:BU:47:TYR:HA	52:BU:50:ARG:NH1	2.16	0.61
1:CA:1425:U:O2'	1:CA:1426:C:H5'	2.01	0.61
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.82	0.61
4:CD:8:VAL:O	4:CD:10:ARG:N	2.33	0.61
6:CF:60:PHE:O	6:CF:61:LEU:HD12	1.98	0.61
9:CI:17:VAL:HG22	9:CI:63:ILE:HD13	1.81	0.61
10:CJ:31:GLY:HA3	10:CJ:78:ASN:HD22	1.65	0.61
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.14	0.61
15:CO:11:VAL:HG21	15:CO:34:LEU:HD22	1.80	0.61
19:CS:40:ILE:HD13	19:CS:62:ILE:HD13	1.81	0.61
25:D0:25:ARG:HA	25:D0:29:GLN:HE22	1.64	0.61
26:D1:45:ASN:C	26:D1:45:ASN:HD22	2.07	0.61
31:D6:52:VAL:HG22	31:D6:53:LYS:N	2.14	0.61
35:DA:882:G:H2'	35:DA:883:G:H8	1.66	0.61
35:DA:2361:A:H2'	35:DA:2362:G:H5'	1.82	0.61
46:DO:104:ARG:NE	51:DT:33:LYS:HD2	2.15	0.61
51:DT:23:ARG:HG2	51:DT:120:ARG:NH1	2.14	0.61
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.15	0.61
1:AA:707:C:O2'	1:AA:708:C:H5'	2.00	0.61
1:AA:1370:G:C5'	9:AI:12:GLU:HG3	2.31	0.61
4:AD:122:ARG:NH1	4:AD:135:LEU:HD12	2.16	0.61
5:AE:73:ASN:N	5:AE:73:ASN:ND2	2.43	0.61
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.29	0.61
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:47:G:C2'	23:AW:48:G:H5'	2.29	0.61
33:B8:29:LYS:HD3	33:B8:44:LYS:HG2	1.82	0.61
35:BA:845:G:H8	35:BA:845:G:OP2	1.82	0.61
35:BA:2468:G:H22	35:BA:2481:G:H2'	1.66	0.61
37:BC:26:ALA:O	37:BC:30:VAL:HG23	2.00	0.61
39:BE:87:GLU:OE1	39:BE:89:ASP:N	2.32	0.61
41:BG:51:ARG:HD3	41:BG:53:LEU:CD2	2.29	0.61
42:BH:155:SER:O	42:BH:157:TYR:N	2.34	0.61
43:BI:8:PRO:HA	43:BI:14:ASP:H	1.65	0.61
47:BP:50:ARG:HH11	47:BP:50:ARG:HG2	1.65	0.61
49:BR:7:GLY:O	49:BR:8:ARG:CG	2.48	0.61
49:BR:103:ARG:NH1	49:BR:110:PRO:HB3	2.16	0.61
51:BT:38:ASN:ND2	51:BT:40:THR:OG1	2.33	0.61
54:BW:95:ILE:O	54:BW:95:ILE:HG13	2.01	0.61
56:BY:31:LEU:HD23	56:BY:36:ALA:O	2.01	0.61
1:CA:243:A:O2'	1:CA:244:U:OP2	2.19	0.61
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.34	0.61
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.36	0.61
13:CM:25:ILE:HD11	13:CM:60:VAL:HG11	1.81	0.61
15:CO:39:LEU:C	15:CO:39:LEU:HD13	2.25	0.61
23:CW:29:A:O2'	23:CW:30:U:H5'	2.00	0.61
23:CW:40:A:H2	23:CW:42:C:OP2	1.83	0.61
27:D2:47:ASN:ND2	35:DA:94(A):G:H21	1.96	0.61
35:DA:2839:G:H5'	49:DR:46:GLY:HA2	1.82	0.61
38:DD:142:VAL:HG23	38:DD:192:THR:O	1.99	0.61
46:DO:14:THR:O	46:DO:52:VAL:HG23	2.00	0.61
47:DP:144:GLU:N	47:DP:145:PRO:HD3	2.06	0.61
50:DS:28:VAL:O	50:DS:89:ARG:HD2	1.99	0.61
51:DT:27:THR:OG1	51:DT:28:VAL:N	2.32	0.61
54:DW:4:LYS:HG2	54:DW:5:ALA:N	2.16	0.61
1:AA:530:G:O6	24:AX:21:A:H1'	1.99	0.61
1:AA:1452:C:H4'	1:AA:1456:G:C5'	2.30	0.61
2:AB:164:VAL:O	2:AB:186:ALA:HB1	2.01	0.61
9:AI:17:VAL:HG13	9:AI:63:ILE:HD11	1.83	0.61
9:AI:27:THR:HG23	9:AI:31:GLN:O	2.00	0.61
12:AL:38:THR:CG2	12:AL:39:VAL:H	2.14	0.61
22:AV:19:G:H21	22:AV:59:G:H2'	1.65	0.61
23:AW:70:G:C5	23:AW:71:G:C6	2.88	0.61
22:AY:57:U:C5	22:AY:59:G:OP2	2.53	0.61
29:B4:43:TYR:HD2	29:B4:44:THR:HG23	1.65	0.61
45:BN:4:TYR:HB2	52:BU:64:ARG:HH12	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:108:LYS:HD2	47:BP:108:LYS:N	2.16	0.61
51:BT:122:ASP:C	51:BT:124:ASP:H	2.09	0.61
1:CA:1370:G:C5'	9:CI:12:GLU:HG3	2.30	0.61
2:CB:121:LEU:HA	2:CB:124:SER:CB	2.29	0.61
2:CB:164:VAL:O	2:CB:186:ALA:HB1	2.00	0.61
4:CD:33:MET:O	4:CD:37:PRO:HG3	2.01	0.61
7:CG:79:ARG:HG3	7:CG:83:ALA:O	1.99	0.61
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.15	0.61
23:CW:3:G:C6	23:CW:4:C:C4	2.89	0.61
31:D6:5:VAL:HG12	31:D6:8:LYS:HB2	1.82	0.61
35:DA:142:A:H8	35:DA:1595:G:H21	1.48	0.61
35:DA:654(S):G:H3'	35:DA:654(T):C:H5"	1.83	0.61
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.66	0.61
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.65	0.61
36:DB:45:A:H1'	41:DG:95:ARG:NH2	2.16	0.61
40:DF:7:TYR:HB3	40:DF:16:GLY:N	2.16	0.61
42:DH:41:MET:CG	42:DH:42:ARG:N	2.57	0.61
42:DH:117:PRO:HB3	42:DH:123:PHE:CZ	2.35	0.61
43:DI:104:GLN:HG2	43:DI:105:HIS:CD2	2.34	0.61
46:DO:79:PHE:HB3	51:DT:70:VAL:HG11	1.82	0.61
56:DY:39:VAL:HG12	56:DY:40:GLU:H	1.64	0.61
57:DZ:135:GLU:O	57:DZ:137:ILE:HG12	2.00	0.61
1:AA:73:G:H22	1:AA:96:U:H3	1.49	0.61
1:AA:637:G:H2'	1:AA:638:G:H8	1.65	0.61
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.81	0.61
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.35	0.61
1:AA:1346:A:H5"	9:AI:120:ARG:HH12	1.64	0.61
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.83	0.61
4:AD:196:LEU:H	4:AD:196:LEU:HD12	1.65	0.61
10:AJ:26:ALA:HA	10:AJ:29:ARG:NH2	2.15	0.61
12:AL:8:ASN:ND2	17:AQ:34:LYS:HE2	2.16	0.61
15:AO:11:VAL:HG21	15:AO:34:LEU:HD22	1.83	0.61
18:AR:25:THR:HG22	18:AR:25:THR:O	1.99	0.61
22:AV:77:C:H5'	22:AV:77:C:H6	1.66	0.61
23:AW:11:C:N3	23:AW:27:C:O2	2.33	0.61
22:AY:63:C:C1'	57:BZ:186:GLU:HG2	2.25	0.61
35:BA:607:U:H3	35:BA:621:A:H2	1.46	0.61
35:BA:1038:C:H2'	35:BA:1039:G:H5"	1.82	0.61
35:BA:2179:C:OP1	35:BA:2179:C:H4'	1.99	0.61
51:BT:35:LYS:O	51:BT:36:GLU:HB3	1.98	0.61
53:BV:25:LEU:H	53:BV:92:THR:HG21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:108:PRO:HB3	57:BZ:144:LEU:HB2	1.82	0.61
1:CA:151:A:C2'	1:CA:152:A:H5'	2.31	0.61
1:CA:1346:A:H5"	9:CI:120:ARG:HH12	1.65	0.61
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.35	0.61
3:CC:23:TYR:HA	10:CJ:11:PHE:CD2	2.36	0.61
3:CC:36:ASP:OD1	3:CC:57:ILE:HD12	2.00	0.61
5:CE:42:GLY:HA2	5:CE:65:ASN:O	2.00	0.61
7:CG:13:GLN:O	7:CG:24:THR:HG21	2.01	0.61
8:CH:29:SER:HB3	8:CH:32:LYS:HG3	1.83	0.61
9:CI:105:ASP:HB3	9:CI:107:ARG:HD3	1.82	0.61
10:CJ:3:LYS:HZ2	10:CJ:76:ASN:HA	1.63	0.61
22:CV:12:U:H5"	22:CV:13:U:OP2	2.00	0.61
22:CV:36:AG9:H1A	22:CV:37:A:O4'	2.00	0.61
29:D4:14:ILE:HG23	29:D4:31:ILE:CG2	2.31	0.61
35:DA:2472:G:C5'	35:DA:2473:U:H5"	2.30	0.61
37:DC:39:ASP:HB3	37:DC:178:LYS:HE3	1.81	0.61
42:DH:68:THR:C	42:DH:70:THR:N	2.57	0.61
43:DI:114:LEU:O	43:DI:131:LYS:HE3	2.00	0.61
45:DN:58:ASP:C	45:DN:60:ILE:H	2.09	0.61
49:DR:103:ARG:NH1	49:DR:110:PRO:HB3	2.15	0.61
55:DX:27:THR:HB	55:DX:80:ILE:HG22	1.82	0.61
56:DY:31:LEU:HD23	56:DY:36:ALA:O	1.99	0.61
57:DZ:81:ARG:HB3	57:DZ:81:ARG:NH1	2.15	0.61
1:AA:624:C:H2'	1:AA:625:G:H8	1.66	0.61
1:AA:1023:G:H2'	1:AA:1023:G:N3	2.16	0.61
3:AC:58:GLU:HB2	3:AC:65:ALA:CB	2.30	0.61
22:AV:76:C:H2'	22:AV:77:C:C5'	2.31	0.61
25:B0:25:ARG:HH11	25:B0:25:ARG:HG2	1.66	0.61
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.36	0.61
37:BC:39:ASP:HB3	37:BC:178:LYS:HE3	1.82	0.61
38:BD:165:ILE:HD13	38:BD:175:LEU:CD2	2.30	0.61
38:BD:270:ILE:O	38:BD:271:ILE:HG23	2.00	0.61
40:BF:21:ALA:C	40:BF:23:ASP:H	2.08	0.61
40:BF:67:GLN:O	40:BF:67:GLN:HG3	2.00	0.61
43:BI:88:ILE:CD1	43:BI:142:VAL:HG13	2.21	0.61
50:BS:89:ARG:O	50:BS:92:TYR:HB3	1.99	0.61
51:BT:3:ARG:HB3	51:BT:6:LEU:HB2	1.83	0.61
51:BT:65:LYS:CE	51:BT:66:VAL:H	2.14	0.61
51:BT:89:VAL:HG11	51:BT:91:ARG:HE	1.66	0.61
52:BU:106:PHE:O	52:BU:110:VAL:HG23	2.01	0.61
57:BZ:131:ARG:HG3	57:BZ:132:ASN:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:328:C:H4'	1:CA:329:A:H5'	1.83	0.61
4:CD:129:ASN:N	4:CD:129:ASN:HD22	1.97	0.61
7:CG:113:GLU:HB3	7:CG:118:VAL:HG23	1.83	0.61
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.15	0.61
23:CW:17:C:H5"	23:CW:18:U:C5	2.35	0.61
31:D6:15:GLU:HG2	31:D6:16:CYS:O	1.99	0.61
33:D8:43:GLN:O	33:D8:44:LYS:HD2	2.01	0.61
35:DA:142:A:C8	35:DA:1408:C:H1'	2.35	0.61
35:DA:2107:C:H5'	37:DC:3:LYS:HE3	1.82	0.61
35:DA:2196:C:O2'	35:DA:2197:U:H5'	2.00	0.61
38:DD:165:ILE:HD13	38:DD:175:LEU:CD2	2.31	0.61
41:DG:107:LEU:HA	41:DG:111:LEU:CD1	2.31	0.61
51:DT:91:ARG:CB	51:DT:116:ALA:HA	2.30	0.61
51:DT:132:LYS:C	51:DT:134:GLU:H	2.09	0.61
56:DY:7:VAL:CG2	56:DY:8:LYS:HZ3	2.13	0.61
1:AA:939:G:H2'	1:AA:940:C:C6	2.35	0.61
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.00	0.61
1:AA:1293:G:O2'	1:AA:1294:G:H8	1.84	0.61
2:AB:121:LEU:HA	2:AB:124:SER:CB	2.29	0.61
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.00	0.61
5:AE:40:ARG:HH11	5:AE:40:ARG:HG2	1.66	0.61
5:AE:57:LYS:HE2	5:AE:61:TYR:HE2	1.64	0.61
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.65	0.61
15:AO:33:THR:CG2	15:AO:85:LEU:HD21	2.29	0.61
23:AW:8:U:N3	23:AW:24:A:N6	2.48	0.61
31:B6:15:GLU:HG2	31:B6:16:CYS:O	2.01	0.61
35:BA:1037:G:H1	35:BA:1118:C:N4	1.98	0.61
35:BA:1318:C:C3'	35:BA:1319:G:H5"	2.30	0.61
45:BN:3:THR:C	45:BN:5:VAL:H	2.09	0.61
49:BR:30:THR:HA	49:BR:78:LYS:NZ	2.15	0.61
50:BS:95:HIS:CG	50:BS:96:GLY:H	2.18	0.61
51:BT:23:ARG:HG2	51:BT:120:ARG:NH1	2.15	0.61
51:BT:32:TYR:CD2	51:BT:81:PRO:HB2	2.36	0.61
1:CA:202:U:H3'	1:CA:203:U:C5	2.35	0.61
1:CA:554:C:H2'	1:CA:555:C:C6	2.36	0.61
6:CF:26:ILE:O	6:CF:30:LEU:HG	2.00	0.61
22:CY:9:A:N3	22:CY:47:G:H2'	2.15	0.61
26:D1:19:GLN:O	26:D1:35:THR:HG22	2.00	0.61
33:D8:43:GLN:C	33:D8:44:LYS:HD2	2.25	0.61
35:DA:332:A:H4'	35:DA:333:G:OP1	1.99	0.61
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:54:GLU:O	41:DG:57:ALA:HB3	2.00	0.61
47:DP:18:ARG:O	47:DP:18:ARG:NH1	2.33	0.61
56:DY:54:LYS:O	56:DY:56:PRO:HD2	2.01	0.61
1:AA:299:G:H2'	1:AA:300:A:C8	2.35	0.61
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.35	0.61
1:AA:1346:A:N1	1:AA:1374:A:H5"	2.16	0.61
2:AB:213:LEU:O	2:AB:213:LEU:HD23	2.00	0.61
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.01	0.61
16:AP:2:VAL:CG2	16:AP:21:VAL:HG23	2.31	0.61
22:AV:14:A:N7	22:AV:24:A:C6	2.69	0.61
22:AV:71:G:N2	22:AV:72:C:N1	2.49	0.61
22:AY:7:U:H4'	22:AY:8:U:OP2	2.00	0.61
22:AY:23:A:C2	22:AY:50:C:C2	2.89	0.61
27:B2:47:ASN:O	27:B2:48:HIS:C	2.43	0.61
31:B6:6:ARG:N	31:B6:6:ARG:HD2	2.16	0.61
35:BA:1856:G:H2'	35:BA:1857:G:H5'	1.82	0.61
35:BA:2114:A:H2'	35:BA:2115:G:O4'	2.00	0.61
35:BA:2653:U:O2'	42:BH:110:SER:HB2	2.01	0.61
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.81	0.61
41:BG:172:LEU:O	41:BG:172:LEU:HD23	2.01	0.61
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ3	1.64	0.61
51:BT:87:ASP:OD1	51:BT:87:ASP:O	2.17	0.61
52:BU:31:SER:HB3	52:BU:34:LYS:HB2	1.82	0.61
1:CA:757:U:H2'	1:CA:758:G:O4'	2.01	0.61
1:CA:932:C:H5'	7:CG:4:ARG:HG3	1.83	0.61
18:CR:53:ARG:NH1	18:CR:60:ALA:CA	2.63	0.61
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.30	0.61
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.35	0.61
35:DA:587:C:C4	47:DP:33:ARG:HD3	2.35	0.61
35:DA:1537:G:H2'	35:DA:1538:G:C8	2.26	0.61
35:DA:1996:C:H5	46:DO:32:TYR:HH	1.48	0.61
35:DA:2155:G:H2'	35:DA:2156:G:O4'	2.01	0.61
41:DG:138:GLN:NE2	41:DG:149:VAL:HG23	2.15	0.61
43:DI:72:LEU:O	43:DI:138:ILE:HD12	2.00	0.61
43:DI:109:ILE:HG22	43:DI:110:ASP:N	2.14	0.61
45:DN:89:LYS:NZ	45:DN:89:LYS:HB3	2.15	0.61
54:DW:65:LEU:HD23	54:DW:68:ARG:CD	2.30	0.61
1:AA:189(E):U:O2'	1:AA:189(F):U:H5'	2.01	0.61
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.65	0.61
4:AD:92:VAL:O	4:AD:96:LEU:HD13	2.01	0.61
17:AQ:9:VAL:HG11	17:AQ:84:LEU:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:69:G:C4	22:AV:70:G:C8	2.88	0.61
33:B8:4:MET:HB3	33:B8:61:LEU:HD22	1.83	0.61
35:BA:102:G:H4'	35:BA:102:G:OP1	2.00	0.61
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.35	0.61
35:BA:2790:A:H2'	35:BA:2790:A:N3	2.15	0.61
37:BC:197:LEU:C	37:BC:199:ALA:H	2.08	0.61
45:BN:3:THR:C	45:BN:4:TYR:CD1	2.79	0.61
50:BS:88:ASP:OD1	50:BS:89:ARG:N	2.33	0.61
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.35	0.61
1:CA:1152:A:H5"	10:CJ:13:HIS:CD2	2.35	0.61
1:CA:1293:G:O2'	1:CA:1294:G:H8	1.84	0.61
3:CC:73:PRO:C	3:CC:76:VAL:HG22	2.26	0.61
7:CG:146:GLU:O	7:CG:149:ARG:HB2	2.01	0.61
9:CI:15:ALA:HB2	9:CI:65:VAL:HG23	1.81	0.61
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.00	0.61
23:CW:70:G:C2'	23:CW:71:G:C8	2.68	0.61
35:DA:1216:G:N2	35:DA:1234:U:H1'	2.14	0.61
35:DA:1221:C:H5'	35:DA:1221:C:H6	1.66	0.61
35:DA:1372:U:H2'	35:DA:1373:A:C8	2.35	0.61
35:DA:1657:C:H2'	35:DA:1658:C:H6	1.66	0.61
35:DA:1761:C:H3'	35:DA:1762:A:C8	2.35	0.61
35:DA:1991:U:H2'	35:DA:1992:G:H5"	1.81	0.61
35:DA:2147:G:H2'	35:DA:2148:G:O4'	2.01	0.61
35:DA:2579:C:O2'	39:DE:131:ALA:HB3	2.01	0.61
35:DA:2777:G:C4'	35:DA:2778:A:H5'	2.31	0.61
35:DA:2790:A:H2'	35:DA:2790:A:N3	2.16	0.61
35:DA:2808:U:O2'	35:DA:2809:A:H5'	2.01	0.61
40:DF:65:TRP:HZ3	40:DF:73:ALA:O	1.84	0.61
43:DI:73:GLU:HG3	43:DI:74:ASN:N	2.15	0.61
50:DS:83:LYS:HE3	50:DS:105:ALA:HB3	1.83	0.61
1:AA:746:A:O2'	1:AA:747:C:H5'	2.01	0.61
3:AC:43:LEU:O	3:AC:47:LEU:HB3	2.01	0.61
3:AC:119:ARG:HH11	3:AC:119:ARG:HG3	1.66	0.61
4:AD:18:LYS:HB2	4:AD:33:MET:HG2	1.82	0.61
9:AI:105:ASP:HB3	9:AI:107:ARG:HD3	1.81	0.61
13:AM:79:LYS:HB3	13:AM:79:LYS:NZ	2.16	0.61
15:AO:64:ARG:HH11	15:AO:64:ARG:HG3	1.66	0.61
19:AS:22:LEU:HD12	19:AS:47:HIS:CE1	2.36	0.61
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	2.15	0.61
23:AW:7:U:C2	23:AW:69:G:C5	2.89	0.61
23:AW:14:A:C2	23:AW:24:A:C4	2.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:51:G:N1	23:AW:67:C:N4	2.49	0.61
23:AW:61:A:O2'	23:AW:62:U:H5'	2.01	0.61
23:AW:74:C:O2	23:AW:74:C:C2'	2.48	0.61
22:AY:20:G:C8	22:AY:59:G:N2	2.69	0.61
27:B2:47:ASN:HD22	35:BA:94(A):G:N2	1.98	0.61
35:BA:922:U:H2'	35:BA:923:C:C6	2.36	0.61
35:BA:1786:A:H2	35:BA:2606:C:H1'	1.65	0.61
35:BA:1818:U:O4	38:BD:154:LYS:HE3	2.01	0.61
36:BB:49:C:H2'	36:BB:50:G:H8	1.65	0.61
38:BD:65:ILE:HD11	38:BD:67:PHE:CE2	2.36	0.61
40:BF:22:ALA:HB1	40:BF:26:ALA:HB2	1.81	0.61
42:BH:117:PRO:HB3	42:BH:123:PHE:CZ	2.36	0.61
43:BI:88:ILE:HG22	43:BI:89:TYR:H	1.65	0.61
43:BI:109:ILE:HD12	43:BI:109:ILE:N	2.16	0.61
46:BO:121:VAL:C	46:BO:122:LEU:HD23	2.26	0.61
51:BT:102:ILE:O	51:BT:106:SER:HB3	2.00	0.61
57:BZ:31:ARG:NH1	57:BZ:31:ARG:HB2	2.16	0.61
1:CA:867:G:H2'	1:CA:868:C:H6	1.65	0.61
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.01	0.61
1:CA:1196:U:N3	24:CX:23:A:C6	2.67	0.61
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.82	0.61
4:CD:90:GLY:HA2	4:CD:204:ILE:HD11	1.81	0.61
4:CD:148:VAL:HG12	4:CD:152:SER:HB2	1.83	0.61
19:CS:36:ARG:HH12	19:CS:53:ASN:HA	1.66	0.61
22:CV:17:C:H5"	22:CV:18:U:C5	2.36	0.61
22:CY:29:A:C2'	22:CY:30:U:H5'	2.30	0.61
22:CY:56:U:OP1	48:DQ:56:ARG:HD3	2.00	0.61
25:D0:49:LYS:H	25:D0:80:HIS:HD1	1.49	0.61
25:D0:56:ASP:O	25:D0:57:PHE:HB2	2.00	0.61
27:D2:46:GLN:O	27:D2:49:LYS:HG3	2.01	0.61
30:D5:51:TYR:CZ	30:D5:52:TYR:HD2	2.19	0.61
35:DA:669:G:N3	35:DA:669:G:H2'	2.16	0.61
35:DA:1578:U:H2'	35:DA:1579:A:H5'	1.82	0.61
35:DA:1845:G:H2'	35:DA:1846:G:C5'	2.16	0.61
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.00	0.61
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.36	0.61
40:DF:22:ALA:HB1	40:DF:26:ALA:HB2	1.82	0.61
43:DI:8:PRO:CB	43:DI:14:ASP:H	2.14	0.61
43:DI:81:VAL:HG13	43:DI:143:SER:H	1.66	0.61
43:DI:126:TYR:N	43:DI:140:LEU:HD22	2.12	0.61
45:DN:67:LEU:O	45:DN:68:GLU:HB2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:73:THR:HG21	45:DN:82:LEU:HD11	1.83	0.61
45:DN:120:LEU:HD21	45:DN:122:VAL:HG23	1.82	0.61
48:DQ:2:LEU:O	48:DQ:70:PRO:HG2	1.99	0.61
50:DS:89:ARG:O	50:DS:92:TYR:HB3	2.00	0.61
51:DT:28:VAL:O	51:DT:29:ARG:HD3	2.00	0.61
53:DV:79:VAL:O	53:DV:79:VAL:HG13	2.01	0.61
56:DY:20:TYR:N	56:DY:20:TYR:CD1	2.68	0.61
57:DZ:110:GLY:N	57:DZ:145:GLU:HA	2.15	0.61
1:AA:484:G:H4'	1:AA:485:G:O5'	2.01	0.60
1:AA:542:G:H2'	1:AA:543:C:H6	1.66	0.60
1:AA:908:A:H2'	1:AA:909:A:C8	2.36	0.60
1:AA:1320:C:H5'	19:AS:70:LYS:HG2	1.82	0.60
4:AD:122:ARG:HD2	4:AD:134:ASP:O	2.01	0.60
9:AI:77:ILE:O	9:AI:81:ILE:HG12	2.01	0.60
11:AK:21:ILE:HD12	11:AK:21:ILE:N	2.16	0.60
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.31	0.60
22:AV:67:C:H2'	22:AV:68:A:H8	1.66	0.60
23:AW:73:C:H3'	23:AW:74:C:H5"	1.82	0.60
22:AY:57:U:C3'	57:BZ:182:LYS:HB3	2.09	0.60
22:AY:60:A:C6	57:BZ:186:GLU:HB2	2.35	0.60
30:B5:51:TYR:CZ	30:B5:52:TYR:HD2	2.17	0.60
35:BA:330:A:HO2'	35:BA:331:A:H8	1.47	0.60
35:BA:1019:U:H3	35:BA:1142(A):A:N6	1.98	0.60
35:BA:2472:G:C5'	35:BA:2473:U:H5"	2.29	0.60
40:BF:185:ASP:HA	40:BF:188:ARG:HD3	1.82	0.60
1:CA:940:C:H2'	1:CA:941:G:C8	2.36	0.60
1:CA:984:C:H2'	1:CA:985:C:C6	2.36	0.60
1:CA:1320:C:H5'	19:CS:70:LYS:HG2	1.82	0.60
7:CG:32:ARG:HH11	7:CG:32:ARG:HG2	1.66	0.60
18:CR:58:LEU:H	18:CR:58:LEU:CD1	2.12	0.60
35:DA:991:C:H5'	35:DA:991:C:C6	2.27	0.60
35:DA:1280:G:H2'	35:DA:1281:G:H5"	1.82	0.60
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.36	0.60
38:DD:44:ASN:HB2	38:DD:48:ARG:O	2.01	0.60
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.26	0.60
40:DF:198:ALA:O	40:DF:201:VAL:HG12	2.01	0.60
42:DH:153:LYS:HD3	42:DH:153:LYS:N	2.14	0.60
46:DO:3:GLN:HB2	46:DO:4:PRO:HD2	1.82	0.60
48:DQ:59:ARG:HA	57:DZ:180:VAL:HG23	1.83	0.60
51:DT:28:VAL:O	51:DT:29:ARG:CB	2.49	0.60
56:DY:7:VAL:C	56:DY:8:LYS:HD2	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:24:LEU:HD23	57:DZ:25:PRO:N	2.16	0.60
57:DZ:103:ARG:CB	57:DZ:136:PHE:HB2	2.31	0.60
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.35	0.60
3:AC:182:ILE:HG23	3:AC:202:ILE:O	2.00	0.60
5:AE:108:ALA:O	5:AE:112:LEU:HG	2.01	0.60
7:AG:13:GLN:O	7:AG:24:THR:HG21	2.01	0.60
18:AR:53:ARG:NH1	18:AR:60:ALA:CA	2.63	0.60
22:AV:12:U:N3	22:AV:25:A:C2	2.66	0.60
22:AY:57:U:H6	57:BZ:183:LEU:H	1.45	0.60
27:B2:17:SER:H	27:B2:67:LYS:HZ2	1.49	0.60
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.31	0.60
35:BA:1722:A:C2	35:BA:1740:G:H8	2.19	0.60
35:BA:2022:U:O2'	35:BA:2617:C:H5'	2.00	0.60
41:BG:46:ALA:HB2	41:BG:88:ILE:HD11	1.82	0.60
43:BI:66:GLU:OE2	43:BI:134:PRO:HD2	2.01	0.60
48:BQ:34:LEU:HD11	48:BQ:129:THR:CB	2.29	0.60
56:BY:2:ARG:HD3	56:BY:3:VAL:HG23	1.83	0.60
1:CA:189(D):C:H1'	1:CA:189(H):G:N2	2.15	0.60
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.01	0.60
1:CA:1479:C:H2'	1:CA:1480:G:C8	2.33	0.60
5:CE:126:ARG:HH11	5:CE:126:ARG:HG3	1.65	0.60
12:CL:43:VAL:O	12:CL:52:LEU:HD23	2.01	0.60
13:CM:106:ASN:O	13:CM:107:ALA:HB2	2.00	0.60
16:CP:43:LYS:O	16:CP:45:THR:N	2.33	0.60
19:CS:31:ILE:HG23	19:CS:49:ILE:HA	1.81	0.60
23:CW:39:A:C2'	23:CW:41:C:OP2	2.48	0.60
22:CY:56:U:OP1	57:DZ:180:VAL:HG11	2.00	0.60
31:D6:5:VAL:HG13	31:D6:7:ILE:H	1.67	0.60
35:DA:90:U:H1'	35:DA:92:A:H8	1.67	0.60
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.49	0.60
35:DA:1541:G:H5"	35:DA:1542:A:O5'	2.00	0.60
51:DT:89:VAL:HG11	51:DT:91:ARG:HE	1.66	0.60
57:DZ:29:TYR:HB3	57:DZ:34:ASN:ND2	2.16	0.60
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.66	0.60
2:AB:178:ARG:NH2	8:AH:68:ARG:NH2	2.47	0.60
8:AH:13:ILE:O	8:AH:17:THR:HG23	2.01	0.60
11:AK:124:LYS:HZ3	11:AK:125:PHE:HE1	1.49	0.60
13:AM:112:GLY:HA2	13:AM:113:PRO:CG	2.32	0.60
18:AR:31:LEU:HD23	18:AR:31:LEU:H	1.65	0.60
22:AV:47:G:O2'	22:AV:48:G:H5'	2.01	0.60
23:AW:14:A:N1	23:AW:24:A:C5	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:9:ARG:CZ	34:B9:16:VAL:HG23	2.30	0.60
35:BA:304:G:H2'	35:BA:305:U:C6	2.36	0.60
43:BI:73:GLU:HG3	43:BI:74:ASN:N	2.16	0.60
43:BI:127:VAL:HG22	43:BI:139:GLN:HB3	1.83	0.60
49:BR:98:LEU:O	49:BR:113:LEU:HD22	2.02	0.60
51:BT:80:SER:CB	51:BT:81:PRO:CD	2.79	0.60
52:BU:101:ARG:C	52:BU:102:GLU:HG2	2.25	0.60
54:BW:1:MET:HE3	54:BW:2:GLU:N	2.08	0.60
1:CA:403:C:O2'	1:CA:404:U:H5'	2.01	0.60
1:CA:1393:U:H5'	1:CA:1502:A:OP1	2.01	0.60
5:CE:76:ILE:HG12	5:CE:77:PRO:CD	2.28	0.60
7:CG:20:ASP:HB3	7:CG:23:VAL:CG2	2.30	0.60
10:CJ:50:ILE:H	10:CJ:50:ILE:CD1	2.07	0.60
12:CL:22:SER:O	12:CL:24:VAL:N	2.33	0.60
23:CW:43:G:H2'	23:CW:44:A:H8	1.66	0.60
33:D8:29:LYS:HD3	33:D8:44:LYS:HG2	1.83	0.60
35:DA:85:G:OP1	56:DY:9:LYS:HA	2.02	0.60
35:DA:570:G:H2'	35:DA:2030:A:C5	2.36	0.60
35:DA:1111:A:O2'	35:DA:1112:G:H4'	2.01	0.60
35:DA:1339:G:H21	35:DA:1603:A:H1'	1.66	0.60
37:DC:26:ALA:O	37:DC:30:VAL:HG23	2.01	0.60
37:DC:197:LEU:C	37:DC:199:ALA:H	2.07	0.60
50:DS:54:LEU:HD22	50:DS:57:LYS:HA	1.83	0.60
52:DU:102:GLU:HG3	53:DV:2:PHE:CZ	2.36	0.60
56:DY:76:CYS:SG	56:DY:77:PRO:CD	2.81	0.60
1:AA:16:A:O2'	1:AA:17:U:H5'	2.01	0.60
1:AA:243:A:H4'	1:AA:244:U:O5'	2.00	0.60
1:AA:272:C:H2'	1:AA:273:A:H8	1.66	0.60
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.00	0.60
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.37	0.60
2:AB:235:SER:HG	2:AB:236:TYR:HD1	1.47	0.60
5:AE:42:GLY:HA2	5:AE:65:ASN:O	2.01	0.60
12:AL:48:PRO:C	12:AL:49:ASN:ND2	2.57	0.60
18:AR:46:GLU:OE1	18:AR:46:GLU:HA	2.01	0.60
26:B1:56:GLN:HB3	26:B1:87:PRO:HB3	1.82	0.60
33:B8:13:ARG:HB3	47:BP:63:PRO:HB3	1.83	0.60
33:B8:43:GLN:O	33:B8:44:LYS:HD2	2.00	0.60
35:BA:2632:A:O2'	39:BE:61:ARG:NH2	2.34	0.60
37:BC:34:ALA:HB1	37:BC:40:GLU:CB	2.30	0.60
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.06	0.60
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:104:ARG:HE	51:BT:33:LYS:CE	2.13	0.60
47:BP:57:THR:HB	47:BP:59:LEU:H	1.66	0.60
49:BR:86:ARG:HB3	49:BR:118:GLU:OE2	2.01	0.60
51:BT:28:VAL:O	51:BT:29:ARG:CB	2.49	0.60
54:BW:65:LEU:HD23	54:BW:68:ARG:CD	2.31	0.60
57:BZ:38:TYR:CD1	57:BZ:38:TYR:O	2.54	0.60
1:CA:1502:A:H2	1:CA:1505:G:H1	1.47	0.60
15:CO:61:GLY:O	15:CO:65:ARG:HD3	2.02	0.60
22:CY:23:A:H2'	22:CY:24:A:H8	1.64	0.60
28:D3:7:LYS:HB2	28:D3:34:GLU:HG2	1.83	0.60
29:D4:25:TYR:CE2	41:DG:2:PRO:HA	2.35	0.60
35:DA:523:C:C2'	35:DA:524:U:H5'	2.31	0.60
35:DA:908:C:O2'	35:DA:909:A:H5'	2.01	0.60
35:DA:1590:U:H2'	35:DA:1591:G:C5'	2.18	0.60
35:DA:1775:U:H2'	35:DA:1776:G:H5'	1.84	0.60
35:DA:2584:U:H2'	35:DA:2585:U:H5'	1.83	0.60
41:DG:19:LEU:C	41:DG:21:ARG:N	2.57	0.60
46:DO:43:VAL:HG21	46:DO:56:ASP:HB2	1.82	0.60
47:DP:146:VAL:HG13	47:DP:147:LEU:N	2.15	0.60
1:AA:1423:G:H5'	46:BO:49:ARG:NH2	2.15	0.60
2:AB:80:ILE:CD1	2:AB:208:ILE:HG23	2.28	0.60
7:AG:146:GLU:O	7:AG:149:ARG:HB2	2.01	0.60
12:AL:7:ILE:HD11	17:AQ:32:TYR:HB3	1.83	0.60
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.26	0.60
35:BA:1652:A:O2'	35:BA:1653:G:H5'	2.02	0.60
38:BD:95:LEU:HD12	38:BD:95:LEU:O	2.00	0.60
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.84	0.60
45:BN:30:ILE:HG22	45:BN:34:LEU:CD2	2.32	0.60
47:BP:23:PRO:CD	47:BP:33:ARG:CZ	2.75	0.60
48:BQ:132:VAL:HG11	57:BZ:81:ARG:HE	1.66	0.60
51:BT:27:THR:HG23	51:BT:28:VAL:H	1.66	0.60
56:BY:2:ARG:HD3	56:BY:2:ARG:C	2.26	0.60
56:BY:47:LYS:O	56:BY:48:ALA:HB3	2.01	0.60
1:CA:179:A:O2'	1:CA:180:U:H5'	2.02	0.60
16:CP:43:LYS:HG3	16:CP:48:TRP:CD2	2.36	0.60
22:CV:14:A:C6	22:CV:24:A:C5	2.90	0.60
22:CV:76:C:H2'	22:CV:77:C:H5'	1.82	0.60
22:CY:52:C:H2'	22:CY:53:U:H6	1.64	0.60
27:D2:46:GLN:CB	27:D2:49:LYS:HE3	2.31	0.60
28:D3:8:LEU:HA	28:D3:54:VAL:HG22	1.82	0.60
35:DA:2122:U:H2'	35:DA:2123:G:C8	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2179:C:H4'	35:DA:2179:C:OP1	2.01	0.60
41:DG:15:VAL:HA	41:DG:18:GLU:HB3	1.82	0.60
41:DG:18:GLU:O	41:DG:22:ARG:HB2	2.02	0.60
42:DH:11:VAL:HG21	42:DH:50:VAL:HG23	1.84	0.60
48:DQ:24:GLY:O	48:DQ:102:VAL:HG23	2.01	0.60
48:DQ:34:LEU:HD11	48:DQ:129:THR:CB	2.28	0.60
48:DQ:59:ARG:HA	57:DZ:180:VAL:CG2	2.32	0.60
49:DR:30:THR:HA	49:DR:78:LYS:NZ	2.16	0.60
50:DS:17:ARG:HA	50:DS:20:ARG:NH1	2.17	0.60
1:AA:1261:A:H61	1:AA:1274:G:H1'	1.66	0.60
2:AB:132:LYS:HA	2:AB:135:GLN:NE2	2.16	0.60
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.67	0.60
7:AG:32:ARG:HH11	7:AG:32:ARG:HG2	1.66	0.60
16:AP:72:ARG:HH21	16:AP:73:LEU:HD21	1.67	0.60
23:AW:53:U:C4	23:AW:54:G:N7	2.70	0.60
35:BA:594:U:H2'	35:BA:595:C:H6	1.65	0.60
37:BC:178:LYS:HB2	37:BC:181:PHE:CD1	2.36	0.60
38:BD:34:VAL:HG23	38:BD:35:LYS:H	1.67	0.60
39:BE:132:HIS:O	39:BE:135:HIS:NE2	2.35	0.60
40:BF:39:TRP:O	40:BF:43:LYS:HG2	2.01	0.60
43:BI:88:ILE:HD11	43:BI:142:VAL:CG1	2.23	0.60
47:BP:59:LEU:HA	47:BP:61:ARG:NE	2.16	0.60
50:BS:26:LEU:O	50:BS:88:ASP:HB3	2.01	0.60
51:BT:132:LYS:C	51:BT:134:GLU:H	2.10	0.60
57:BZ:171:ILE:CG1	57:BZ:172:ALA:N	2.65	0.60
1:CA:157:G:H2'	1:CA:158:G:H8	1.66	0.60
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	2.16	0.60
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.34	0.60
1:CA:775:G:O2'	1:CA:776:G:H5'	2.02	0.60
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.82	0.60
7:CG:75:VAL:HG12	7:CG:88:PRO:HB3	1.83	0.60
11:CK:24:SER:O	11:CK:26:ASN:N	2.35	0.60
12:CL:41:ARG:NE	12:CL:43:VAL:HG12	2.16	0.60
29:D4:2:LYS:O	29:D4:3:GLU:HB2	2.02	0.60
34:D9:9:ARG:CZ	34:D9:16:VAL:HG23	2.31	0.60
35:DA:910:A:H62	48:DQ:12:GLN:HA	1.66	0.60
35:DA:922:U:H2'	35:DA:923:C:C6	2.36	0.60
38:DD:117:VAL:HG21	38:DD:128:GLY:C	2.27	0.60
38:DD:181:GLU:HA	38:DD:272:ALA:CB	2.31	0.60
40:DF:160:ASN:HD22	40:DF:160:ASN:C	2.09	0.60
57:DZ:4:ARG:O	57:DZ:5:LEU:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:147:G:H2'	1:AA:148:G:C8	2.37	0.60
1:AA:696:A:O2'	1:AA:697:U:H5'	2.00	0.60
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.15	0.60
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.01	0.60
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.24	0.60
7:AG:143:ARG:NH1	23:AW:44:A:H5"	2.17	0.60
9:AI:114:TYR:HD1	9:AI:114:TYR:N	2.00	0.60
12:AL:41:ARG:HB3	12:AL:41:ARG:NH1	2.05	0.60
19:AS:49:ILE:O	19:AS:51:VAL:HG23	2.02	0.60
21:AU:2:GLY:O	21:AU:4:GLY:N	2.34	0.60
22:AV:30:U:O2'	22:AV:31:C:H5'	2.02	0.60
27:B2:32:LEU:HD12	27:B2:36:ARG:NH1	2.17	0.60
30:B5:4:HIS:HD2	35:BA:2056:G:H1	1.48	0.60
31:B6:5:VAL:HG12	31:B6:8:LYS:HB2	1.82	0.60
31:B6:15:GLU:HG2	31:B6:16:CYS:N	2.16	0.60
35:BA:158:U:H3'	35:BA:158:U:O2	2.01	0.60
35:BA:469:G:C2'	35:BA:470:A:H5"	2.31	0.60
35:BA:654(S):G:H3'	35:BA:654(T):C:H5"	1.83	0.60
35:BA:2147:G:H2'	35:BA:2148:G:O4'	2.01	0.60
35:BA:2292:C:O2'	35:BA:2293:C:H5'	2.00	0.60
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.65	0.60
38:BD:117:VAL:HG21	38:BD:128:GLY:O	2.02	0.60
41:BG:141:PHE:O	41:BG:144:ILE:HG22	2.00	0.60
41:BG:172:LEU:HD23	41:BG:172:LEU:C	2.25	0.60
43:BI:104:GLN:HG2	43:BI:105:HIS:CD2	2.36	0.60
52:BU:12:ARG:HA	52:BU:15:LYS:HE2	1.83	0.60
57:BZ:139:VAL:HG12	57:BZ:141:VAL:HG23	1.83	0.60
1:CA:637:G:H2'	1:CA:638:G:C8	2.37	0.60
1:CA:674:G:H2'	1:CA:675:A:C8	2.35	0.60
1:CA:939:G:H2'	1:CA:940:C:C6	2.35	0.60
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.31	0.60
9:CI:17:VAL:HG13	9:CI:63:ILE:HD11	1.84	0.60
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB3	1.81	0.60
11:CK:33:THR:C	11:CK:40:ILE:HD11	2.27	0.60
12:CL:18:VAL:O	12:CL:19:ARG:HB2	1.99	0.60
13:CM:15:VAL:HG23	13:CM:16:ASP:N	2.16	0.60
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	2.01	0.60
20:CT:42:GLN:HE21	20:CT:42:GLN:HA	1.67	0.60
23:CW:16:U:O2	23:CW:62:U:H4'	2.02	0.60
22:CY:51:G:O2'	22:CY:52:C:H5'	2.00	0.60
22:CY:55:G:C4	57:DZ:183:LEU:HD13	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:52:VAL:HG22	31:D6:53:LYS:H	1.66	0.60
33:D8:4:MET:HB3	33:D8:61:LEU:HD22	1.83	0.60
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.36	0.60
35:DA:2087:G:O2'	35:DA:2088:G:H5'	2.01	0.60
35:DA:2317:C:O2'	35:DA:2318:G:H5'	2.02	0.60
36:DB:56:G:H4'	36:DB:57:A:C8	2.37	0.60
41:DG:43:LEU:HD11	41:DG:153:ARG:CB	2.31	0.60
41:DG:59:GLU:HA	41:DG:62:LEU:HD13	1.84	0.60
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.83	0.60
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.30	0.60
42:DH:33:LEU:HD21	42:DH:136:ILE:HG22	1.83	0.60
51:DT:116:ALA:HB1	51:DT:121:ILE:CD1	2.31	0.60
54:DW:1:MET:HE3	54:DW:2:GLU:N	2.07	0.60
7:AG:50:ILE:O	7:AG:54:THR:HG22	2.01	0.60
7:AG:108:ALA:O	7:AG:119:ARG:HD2	2.02	0.60
8:AH:77:GLU:HG2	8:AH:78:GLN:H	1.67	0.60
15:AO:27:VAL:O	15:AO:31:LEU:HD23	2.02	0.60
23:AW:41:C:OP1	23:AW:41:C:O4'	2.20	0.60
22:AY:12:U:N3	22:AY:26:G:N2	2.49	0.60
25:B0:49:LYS:H	25:B0:80:HIS:HD1	1.48	0.60
28:B3:1:MET:C	28:B3:3:ARG:H	2.10	0.60
34:B9:10:ILE:HD12	34:B9:32:HIS:HB3	1.84	0.60
35:BA:330:A:O2'	35:BA:331:A:C8	2.52	0.60
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.36	0.60
35:BA:1991:U:H2'	35:BA:1992:G:H5"	1.84	0.60
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.36	0.60
38:BD:142:VAL:HG23	38:BD:192:THR:O	2.01	0.60
40:BF:165:ARG:HH11	40:BF:165:ARG:HB3	1.65	0.60
40:BF:198:ALA:O	40:BF:201:VAL:HG12	2.00	0.60
57:BZ:152:ALA:CB	57:BZ:167:PRO:HB2	2.32	0.60
1:CA:358:U:H2'	1:CA:359:U:H6	1.65	0.60
1:CA:1095:U:P	1:CA:1108:G:H1	2.25	0.60
4:CD:92:VAL:O	4:CD:96:LEU:HD13	2.02	0.60
12:CL:48:PRO:C	12:CL:49:ASN:ND2	2.57	0.60
13:CM:7:VAL:HG11	41:DG:139:LEU:HD11	1.84	0.60
26:D1:60:PHE:HZ	26:D1:94:LEU:HD12	1.66	0.60
30:D5:3:LYS:HB3	35:DA:747:U:C4	2.36	0.60
31:D6:10:LEU:H	31:D6:10:LEU:CD2	2.15	0.60
35:DA:581:C:OP1	52:DU:33:ARG:HG3	2.02	0.60
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.37	0.60
43:DI:91:SER:HB2	43:DI:119:PRO:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DX:64:LYS:HZ2	55:DX:73:ARG:NH2	1.91	0.60
57:DZ:53:ILE:HG22	57:DZ:71:VAL:O	2.01	0.60
1:AA:151:A:C2'	1:AA:152:A:H5'	2.32	0.60
1:AA:1292:U:O2'	1:AA:1293:G:H5'	2.02	0.60
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	2.02	0.60
8:AH:65:TYR:N	8:AH:65:TYR:CD1	2.70	0.60
13:AM:106:ASN:O	13:AM:107:ALA:HB2	2.01	0.60
16:AP:43:LYS:HG3	16:AP:48:TRP:CD2	2.37	0.60
19:AS:36:ARG:HH12	19:AS:53:ASN:HA	1.66	0.60
22:AV:7:U:N3	22:AV:69:G:C2	2.70	0.60
23:AW:29:A:C5	23:AW:30:U:C5	2.90	0.60
27:B2:16:LEU:H	27:B2:67:LYS:HZ1	1.47	0.60
31:B6:15:GLU:HG3	31:B6:47:THR:CG2	2.19	0.60
35:BA:587:C:H2'	47:BP:33:ARG:NH2	2.17	0.60
35:BA:882:G:H2'	35:BA:883:G:H8	1.67	0.60
35:BA:1111:A:O2'	35:BA:1112:G:H4'	2.01	0.60
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.37	0.60
35:BA:1603:A:H5'	35:BA:1603:A:C8	2.36	0.60
37:BC:8:TYR:CE1	37:BC:221:PRO:HB3	2.36	0.60
45:BN:93:THR:O	45:BN:94:HIS:HB2	2.02	0.60
46:BO:78:ARG:NE	51:BT:73:GLU:OE1	2.34	0.60
50:BS:74:ALA:HB1	50:BS:103:GLU:CB	2.32	0.60
52:BU:31:SER:O	52:BU:33:ARG:N	2.34	0.60
52:BU:74:LEU:CD1	52:BU:74:LEU:H	2.14	0.60
1:CA:175:C:O2'	1:CA:176:C:H5'	2.00	0.60
1:CA:1292:U:O2'	1:CA:1293:G:H5'	2.02	0.60
2:CB:24:TRP:H	2:CB:24:TRP:CD1	2.20	0.60
4:CD:173:TRP:O	4:CD:186:LEU:HB2	2.01	0.60
16:CP:18:ARG:HG3	16:CP:35:LYS:HE3	1.84	0.60
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.66	0.60
22:CY:60:A:N1	57:DZ:186:GLU:HB2	2.16	0.60
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.31	0.60
35:DA:2722:G:H2'	35:DA:2723:C:C6	2.37	0.60
35:DA:2722:G:H2'	35:DA:2723:C:H6	1.66	0.60
41:DG:107:LEU:HA	41:DG:111:LEU:HD12	1.84	0.60
42:DH:11:VAL:CG2	42:DH:50:VAL:HG23	2.31	0.60
48:DQ:130:LYS:HZ2	57:DZ:80:ARG:HD2	1.66	0.60
53:DV:15:GLU:HB3	53:DV:16:PRO:CD	2.28	0.60
1:AA:422:C:H1'	1:AA:423:G:H22	1.67	0.60
1:AA:674:G:H2'	1:AA:675:A:C8	2.35	0.60
1:AA:882:C:O2'	1:AA:883:C:H5'	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1134:G:H22	1:AA:1141:C:H1'	1.66	0.60
2:AB:17:PHE:HB2	2:AB:44:LEU:HD11	1.83	0.60
20:AT:31:SER:HA	20:AT:34:LYS:HD2	1.84	0.60
22:AV:33:G:H2'	22:AV:34:C:H6	1.67	0.60
23:AW:9:A:C8	23:AW:47:G:N2	2.70	0.60
23:AW:12:U:C2	23:AW:26:G:N2	2.68	0.60
23:AW:39:A:C3'	23:AW:41:C:OP2	2.50	0.60
22:AY:52:C:N3	22:AY:53:U:C4	2.70	0.60
26:B1:52:ARG:NH2	35:BA:2218:U:H1'	2.16	0.60
35:BA:287:C:H2'	35:BA:288:C:C6	2.37	0.60
35:BA:908:C:O2'	35:BA:909:A:H5'	2.02	0.60
35:BA:1372:U:H2'	35:BA:1373:A:C8	2.36	0.60
38:BD:210:GLY:O	38:BD:211:ARG:HB3	2.02	0.60
38:BD:245:PRO:O	38:BD:246:PRO:C	2.45	0.60
43:BI:91:SER:HB2	43:BI:119:PRO:HB2	1.83	0.60
46:BO:96:THR:O	46:BO:97:ARG:HG2	2.01	0.60
51:BT:57:PHE:O	51:BT:59:THR:N	2.34	0.60
57:BZ:31:ARG:HB2	57:BZ:31:ARG:HH11	1.67	0.60
1:CA:1005:A:H2'	1:CA:1006:C:H5'	1.83	0.60
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.16	0.60
3:CC:43:LEU:O	3:CC:47:LEU:HB3	2.02	0.60
3:CC:119:ARG:HG3	3:CC:119:ARG:HH11	1.67	0.60
3:CC:131:ARG:NH1	5:CE:50:GLU:HG2	2.17	0.60
5:CE:36:ASP:OD1	5:CE:38:GLN:N	2.34	0.60
9:CI:114:TYR:HD1	9:CI:114:TYR:N	2.00	0.60
15:CO:82:ILE:HD13	15:CO:82:ILE:C	2.26	0.60
22:CY:32:G:C6	22:CY:43:G:C5	2.90	0.60
35:DA:1244:G:C2'	35:DA:1245:G:H5'	2.32	0.60
35:DA:1722:A:C2	35:DA:1740:G:H8	2.20	0.60
35:DA:2192:G:C2'	35:DA:2193:G:H5"	2.32	0.60
35:DA:2681:C:H5	35:DA:2725:A:N6	1.91	0.60
36:DB:42:C:H4'	41:DG:67:LYS:NZ	2.16	0.60
36:DB:45:A:H8	41:DG:95:ARG:HE	1.50	0.60
45:DN:3:THR:C	45:DN:5:VAL:H	2.10	0.60
47:DP:10:PRO:O	47:DP:11:GLY:C	2.45	0.60
47:DP:47:ASP:HB3	47:DP:48:PRO:O	2.02	0.60
48:DQ:43:THR:HG1	48:DQ:46:GLN:HG3	1.67	0.60
51:DT:122:ASP:C	51:DT:124:ASP:H	2.10	0.60
1:AA:1095:U:P	1:AA:1108:G:H1	2.25	0.59
4:AD:9:CYS:HG	58:AD:1000:ZN:ZN	1.14	0.59
12:AL:58:VAL:O	12:AL:60:LEU:HD22	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:11:C:C2'	23:AW:12:U:C6	2.85	0.59
22:AY:11:C:C2'	22:AY:12:U:H6	2.11	0.59
22:AY:27:C:H2'	22:AY:28:G:H8	1.67	0.59
25:B0:36:ILE:HG23	35:BA:2354:G:O2'	2.02	0.59
31:B6:10:LEU:H	31:B6:10:LEU:CD2	2.14	0.59
35:BA:142:A:C8	35:BA:1408:C:H1'	2.37	0.59
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.27	0.59
41:BG:39:ILE:C	41:BG:39:ILE:HD12	2.26	0.59
41:BG:46:ALA:HB2	41:BG:88:ILE:CD1	2.32	0.59
47:BP:62:LEU:HD23	47:BP:63:PRO:N	2.16	0.59
47:BP:146:VAL:HG13	47:BP:147:LEU:N	2.17	0.59
57:BZ:40:ASP:OD2	57:BZ:42:VAL:HG12	2.02	0.59
1:CA:577:G:O2'	1:CA:578:C:H5'	2.02	0.59
1:CA:1134:G:H22	1:CA:1141:C:H1'	1.67	0.59
1:CA:1502:A:H2	1:CA:1505:G:C2	2.20	0.59
2:CB:219:VAL:O	2:CB:223:ILE:HG13	2.01	0.59
10:CJ:26:ALA:HA	10:CJ:29:ARG:NH2	2.16	0.59
25:D0:25:ARG:HH11	25:D0:25:ARG:HG2	1.66	0.59
25:D0:40:GLN:NE2	25:D0:43:THR:HA	2.17	0.59
31:D6:15:GLU:HG2	31:D6:16:CYS:N	2.15	0.59
34:D9:7:VAL:HG12	34:D9:25:VAL:HG21	1.84	0.59
35:DA:330:A:O2'	35:DA:331:A:C8	2.54	0.59
35:DA:536:A:OP1	52:DU:53:ARG:NH1	2.35	0.59
38:DD:46:GLN:N	38:DD:46:GLN:OE1	2.36	0.59
38:DD:182:LEU:H	38:DD:272:ALA:HB3	1.66	0.59
39:DE:70:ALA:O	39:DE:72:VAL:N	2.34	0.59
41:DG:36:LYS:O	41:DG:159:VAL:HA	2.02	0.59
41:DG:142:PRO:HG2	41:DG:143:GLU:H	1.66	0.59
42:DH:155:SER:O	42:DH:157:TYR:N	2.35	0.59
43:DI:69:LYS:HA	43:DI:136:VAL:CG1	2.29	0.59
49:DR:13:HIS:O	49:DR:14:SER:C	2.44	0.59
54:DW:6:ILE:HA	54:DW:103:ILE:O	2.01	0.59
57:DZ:99:TYR:HA	57:DZ:125:LEU:HA	1.83	0.59
57:DZ:108:PRO:HG2	57:DZ:111:VAL:HG23	1.84	0.59
1:AA:932:C:H5'	7:AG:4:ARG:HG3	1.83	0.59
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.16	0.59
1:AA:1442(A):G:H2'	51:BT:118:ARG:NH1	2.15	0.59
3:AC:75:VAL:O	3:AC:83:ARG:HG2	2.02	0.59
4:AD:173:TRP:O	4:AD:186:LEU:HB2	2.02	0.59
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.85	0.59
6:AF:15:ASP:OD2	4:CD:27:TYR:OH	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:79:LEU:HD13	9:AI:79:LEU:O	2.02	0.59
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.03	0.59
16:AP:18:ARG:HG3	16:AP:35:LYS:HE3	1.85	0.59
23:AW:27:C:H5"	23:AW:28:G:OP1	2.02	0.59
22:AY:16:U:O5'	22:AY:16:U:H6	1.84	0.59
27:B2:12:GLU:HA	27:B2:15:LYS:HE2	1.83	0.59
35:BA:669:G:H2'	35:BA:669:G:N3	2.15	0.59
35:BA:943:U:OP2	47:BP:38:GLN:CD	2.45	0.59
35:BA:1131:G:HO2'	35:BA:1132:A:H8	1.49	0.59
35:BA:2579:C:O2'	39:BE:131:ALA:HB3	2.02	0.59
35:BA:2869:G:H2'	35:BA:2870:C:C6	2.37	0.59
37:BC:41:THR:O	37:BC:217:THR:HA	2.02	0.59
40:BF:125:LEU:H	40:BF:125:LEU:HD23	1.67	0.59
41:BG:85:GLY:O	41:BG:86:MET:HB3	2.01	0.59
42:BH:105:LEU:H	42:BH:105:LEU:CD2	2.16	0.59
47:BP:17:LYS:O	47:BP:17:LYS:HG2	2.01	0.59
56:BY:27:VAL:HG12	56:BY:29:GLU:OE1	2.02	0.59
1:CA:445:G:O2'	1:CA:446:G:H5'	2.01	0.59
1:CA:746:A:O2'	1:CA:747:C:H5'	2.02	0.59
1:CA:1109:C:O2'	1:CA:1110:A:H5'	2.01	0.59
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	1.84	0.59
12:CL:38:THR:CG2	12:CL:57:LYS:HB2	2.32	0.59
13:CM:79:LYS:NZ	13:CM:79:LYS:HB3	2.17	0.59
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.66	0.59
22:CY:55:G:C5'	48:DQ:56:ARG:NH2	2.58	0.59
22:CY:70:G:H2'	22:CY:71:G:O4'	2.02	0.59
26:D1:80:LEU:HB3	26:D1:82:LEU:HD13	1.84	0.59
30:D5:4:HIS:HD2	35:DA:2056:G:H1	1.50	0.59
35:DA:158:U:H3'	35:DA:158:U:O2	2.02	0.59
35:DA:924:C:O2'	35:DA:925:C:H5'	2.01	0.59
35:DA:2012:G:O3'	54:DW:96:ILE:HG13	2.02	0.59
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.36	0.59
38:DD:24:ILE:CG1	38:DD:25:THR:H	2.15	0.59
41:DG:36:LYS:HE2	41:DG:95:ARG:HH12	1.66	0.59
46:DO:43:VAL:HG23	46:DO:56:ASP:O	2.02	0.59
46:DO:64:ARG:O	46:DO:82:ASN:HA	2.02	0.59
47:DP:123:LEU:HD12	47:DP:123:LEU:O	2.02	0.59
49:DR:7:GLY:O	49:DR:8:ARG:CG	2.48	0.59
52:DU:25:TRP:C	52:DU:25:TRP:CD1	2.80	0.59
1:AA:347:G:N2	1:AA:348:G:H1'	2.17	0.59
1:AA:979:C:C3'	1:AA:980:C:H5"	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:984:C:H2'	1:AA:985:C:C6	2.38	0.59
4:AD:47:ARG:NE	4:AD:49:ARG:NH2	2.50	0.59
5:AE:76:ILE:HD11	5:AE:142:LEU:HD11	1.85	0.59
11:AK:56:GLY:O	11:AK:89:ALA:HB3	2.01	0.59
22:AV:3:G:H1	22:AV:72:C:N4	1.98	0.59
22:AV:23:A:N6	22:AV:48:G:H2'	2.18	0.59
23:AW:39:A:C6	23:AW:41:C:OP1	2.55	0.59
22:AY:11:C:N4	22:AY:47:G:H21	1.96	0.59
22:AY:71:G:N1	22:AY:72:C:C5	2.70	0.59
35:BA:523:C:C2'	35:BA:524:U:H5'	2.32	0.59
35:BA:558:G:OP1	45:BN:111:PRO:HD2	2.01	0.59
35:BA:2803:C:H2'	35:BA:2804:C:C6	2.37	0.59
35:BA:2811:G:O2'	35:BA:2812:G:H5'	2.01	0.59
38:BD:261:LYS:NZ	38:BD:263:ARG:NH2	2.51	0.59
40:BF:36:VAL:O	40:BF:40:GLN:HG3	2.01	0.59
43:BI:69:LYS:HA	43:BI:136:VAL:CG1	2.25	0.59
43:BI:109:ILE:CG2	43:BI:114:LEU:HD11	2.31	0.59
43:BI:120:ILE:HG22	43:BI:121:LYS:N	2.17	0.59
47:BP:144:GLU:N	47:BP:145:PRO:HD3	2.04	0.59
51:BT:29:ARG:HB3	51:BT:85:LYS:HA	1.84	0.59
1:CA:1285:A:H1'	1:CA:1286:A:OP2	2.02	0.59
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.84	0.59
5:CE:69:VAL:O	5:CE:71:LEU:N	2.35	0.59
11:CK:126:ARG:HB3	11:CK:126:ARG:HH11	1.66	0.59
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.02	0.59
13:CM:119:GLY:N	22:CV:31:C:OP1	2.35	0.59
22:CY:19:G:H8	22:CY:19:G:OP1	1.85	0.59
31:D6:6:ARG:N	31:D6:6:ARG:HD2	2.16	0.59
34:D9:10:ILE:HD12	34:D9:32:HIS:CB	2.32	0.59
43:DI:91:SER:CB	43:DI:119:PRO:HB2	2.33	0.59
49:DR:86:ARG:HB3	49:DR:118:GLU:OE2	2.01	0.59
50:DS:88:ASP:CG	50:DS:89:ARG:N	2.56	0.59
51:DT:3:ARG:C	51:DT:5:ALA:N	2.58	0.59
57:DZ:103:ARG:HB3	57:DZ:136:PHE:HB2	1.84	0.59
1:AA:490:G:H2'	1:AA:491:G:H8	1.67	0.59
1:AA:554:C:H2'	1:AA:555:C:C6	2.37	0.59
1:AA:1216:G:H5"	14:AN:5:ALA:CB	2.32	0.59
4:AD:129:ASN:N	4:AD:129:ASN:HD22	1.98	0.59
7:AG:113:GLU:HB3	7:AG:118:VAL:HG23	1.84	0.59
12:AL:43:VAL:HG13	12:AL:55:VAL:CG2	2.32	0.59
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:62:GLN:O	15:AO:66:LEU:HD13	2.03	0.59
15:AO:82:ILE:HD13	15:AO:82:ILE:O	2.02	0.59
18:AR:58:LEU:HB3	18:AR:62:GLU:HB2	1.83	0.59
19:AS:11:VAL:HG22	19:AS:16:LEU:HD11	1.84	0.59
22:AV:15:G:C2	22:AV:61:A:C2	2.90	0.59
30:B5:3:LYS:HE2	35:BA:2613:U:H2'	1.83	0.59
35:BA:581:C:OP1	52:BU:33:ARG:HG3	2.02	0.59
35:BA:712:G:O2'	35:BA:713:G:H5'	2.03	0.59
35:BA:719:C:O2'	35:BA:720:C:H5'	2.03	0.59
35:BA:1281:G:H5'	35:BA:1281:G:C8	2.37	0.59
35:BA:1503:U:O2'	35:BA:1504:C:H5'	2.03	0.59
35:BA:2317:C:O2'	35:BA:2318:G:H5'	2.03	0.59
42:BH:33:LEU:HD21	42:BH:136:ILE:HG22	1.83	0.59
43:BI:91:SER:CB	43:BI:119:PRO:HB2	2.32	0.59
45:BN:58:ASP:C	45:BN:60:ILE:H	2.08	0.59
45:BN:69:GLN:O	45:BN:71:ILE:HG13	2.02	0.59
1:CA:16:A:O2'	1:CA:17:U:H5'	2.01	0.59
1:CA:301:G:H2'	1:CA:302:G:H8	1.68	0.59
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.37	0.59
2:CB:17:PHE:HB2	2:CB:44:LEU:HD11	1.85	0.59
2:CB:79:ASP:C	2:CB:81:VAL:H	2.11	0.59
4:CD:61:LYS:CE	4:CD:62:GLN:HE21	2.14	0.59
9:CI:5:TYR:HA	9:CI:17:VAL:O	2.03	0.59
18:CR:58:LEU:HB3	18:CR:62:GLU:HB2	1.84	0.59
23:CW:3:G:N2	23:CW:74:C:C6	2.70	0.59
22:CY:56:U:C5'	57:DZ:180:VAL:O	2.50	0.59
22:CY:76:C:O2	22:CY:76:C:C2'	2.49	0.59
35:DA:607:U:H3	35:DA:621:A:H2	1.46	0.59
35:DA:1312:U:OP2	55:DX:63:LYS:HD2	2.01	0.59
46:DO:113:LYS:O	46:DO:117:LEU:HD12	2.02	0.59
55:DX:56:THR:HG22	55:DX:79:ALA:HB2	1.83	0.59
1:AA:651:C:O2'	1:AA:652:U:H5'	2.03	0.59
4:AD:129:ASN:ND2	4:AD:145:GLU:N	2.49	0.59
12:AL:39:VAL:HB	12:AL:57:LYS:NZ	2.17	0.59
13:AM:118:ALA:HB1	13:AM:119:GLY:N	2.17	0.59
22:AY:4:C:O2'	22:AY:5:C:OP2	2.19	0.59
22:AY:31:C:N3	22:AY:43:G:N2	2.51	0.59
35:BA:547:A:H1'	35:BA:548:A:N7	2.17	0.59
35:BA:2439:A:C8	35:BA:2439:A:H5'	2.37	0.59
37:BC:225:ILE:HD12	37:BC:225:ILE:O	2.03	0.59
38:BD:31:LYS:C	38:BD:33:LEU:H	2.09	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.67	0.59
49:BR:58:GLY:HA2	49:BR:80:PHE:HE1	1.65	0.59
51:BT:3:ARG:C	51:BT:5:ALA:N	2.56	0.59
54:BW:6:ILE:HA	54:BW:103:ILE:O	2.02	0.59
56:BY:20:TYR:N	56:BY:20:TYR:CD1	2.71	0.59
1:CA:299:G:H2'	1:CA:300:A:C8	2.37	0.59
1:CA:376:G:H2'	1:CA:377:G:H8	1.68	0.59
2:CB:155:LEU:HD12	2:CB:157:ARG:O	2.02	0.59
4:CD:122:ARG:NH1	4:CD:135:LEU:HD12	2.16	0.59
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.17	0.59
8:CH:122:ARG:HH11	8:CH:122:ARG:CB	2.16	0.59
12:CL:90:VAL:HG22	12:CL:99:HIS:HE2	1.66	0.59
14:CN:27:CYS:O	14:CN:29:ARG:N	2.31	0.59
22:CV:19:G:H21	22:CV:59:G:H2'	1.66	0.59
23:CW:47:G:C2'	23:CW:48:G:H5'	2.31	0.59
23:CW:51:G:N1	23:CW:67:C:N4	2.50	0.59
22:CY:7:U:H3'	22:CY:8:U:H5'	1.84	0.59
22:CY:19:G:N1	22:CY:59:G:C2	2.71	0.59
22:CY:24:A:N6	22:CY:48:G:H22	1.98	0.59
30:D5:16:ARG:HH11	30:D5:16:ARG:HG2	1.66	0.59
35:DA:286:C:H2'	35:DA:287:C:C6	2.38	0.59
35:DA:2257:U:O2'	35:DA:2258:C:H5'	2.02	0.59
35:DA:2445:G:OP1	40:DF:74:ARG:NH2	2.35	0.59
41:DG:4:ASP:HA	41:DG:8:LYS:CD	2.32	0.59
43:DI:88:ILE:HG22	43:DI:89:TYR:H	1.65	0.59
48:DQ:62:GLY:O	57:DZ:178:GLU:CB	2.47	0.59
49:DR:7:GLY:C	49:DR:8:ARG:HE	2.11	0.59
50:DS:35:ILE:CD1	50:DS:99:LYS:HE2	2.30	0.59
55:DX:29:TRP:CZ3	55:DX:78:LYS:HB3	2.38	0.59
55:DX:66:LEU:O	55:DX:66:LEU:HD23	2.02	0.59
1:AA:403:C:O2'	1:AA:404:U:H5'	2.02	0.59
1:AA:580:U:H2'	1:AA:581:G:O4'	2.02	0.59
1:AA:663:A:O2'	1:AA:664:G:H5'	2.03	0.59
2:AB:233:SER:HB2	2:AB:234:PRO:CD	2.30	0.59
3:AC:73:PRO:C	3:AC:76:VAL:HG22	2.27	0.59
4:AD:61:LYS:CE	4:AD:62:GLN:HE21	2.15	0.59
7:AG:77:SER:OG	23:AW:35:U:H5"	2.03	0.59
10:AJ:80:LYS:HB3	10:AJ:80:LYS:HZ3	1.67	0.59
20:AT:42:GLN:HA	20:AT:42:GLN:HE21	1.67	0.59
23:AW:28:G:C8	23:AW:28:G:OP2	2.54	0.59
22:AY:76:C:O2	22:AY:76:C:C2'	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:14:ILE:HG23	29:B4:31:ILE:CG2	2.32	0.59
35:BA:1210:A:H5'	35:BA:1210:A:H8	1.68	0.59
35:BA:1505:C:H2'	35:BA:1506:C:O4'	2.02	0.59
35:BA:1902:C:H4'	38:BD:244:ARG:HA	1.84	0.59
35:BA:2361:A:H2'	35:BA:2362:G:H5'	1.83	0.59
39:BE:111:ARG:HA	49:BR:2:ARG:HG2	1.83	0.59
43:BI:8:PRO:CB	43:BI:14:ASP:H	2.15	0.59
43:BI:69:LYS:CA	43:BI:136:VAL:HG11	2.25	0.59
47:BP:9:ASN:N	47:BP:10:PRO:HD2	2.10	0.59
1:CA:6:G:H4'	1:CA:298:A:H4'	1.83	0.59
1:CA:189(E):U:O2'	1:CA:189(F):U:H5'	2.02	0.59
1:CA:1056:U:O2'	1:CA:1057:G:H5'	2.02	0.59
1:CA:1101:A:H4'	1:CA:1102:A:O5'	2.02	0.59
1:CA:1181:G:O2'	1:CA:1184:G:H5'	2.01	0.59
1:CA:1216:G:H5"	14:CN:5:ALA:CB	2.32	0.59
3:CC:75:VAL:O	3:CC:83:ARG:HG2	2.03	0.59
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.33	0.59
8:CH:65:TYR:N	8:CH:65:TYR:CD1	2.71	0.59
22:CV:67:C:H2'	22:CV:68:A:H8	1.67	0.59
26:D1:46:LEU:HA	26:D1:63:ALA:HA	1.84	0.59
30:D5:3:LYS:NZ	30:D5:5:PRO:O	2.28	0.59
37:DC:33:LEU:HD13	37:DC:221:PRO:HG2	1.84	0.59
37:DC:41:THR:O	37:DC:217:THR:HA	2.03	0.59
40:DF:21:ALA:C	40:DF:23:ASP:H	2.09	0.59
40:DF:39:TRP:O	40:DF:43:LYS:HG2	2.02	0.59
40:DF:185:ASP:HA	40:DF:188:ARG:HD3	1.85	0.59
48:DQ:28:ALA:O	48:DQ:29:PHE:CD1	2.56	0.59
51:DT:30:VAL:HG21	51:DT:84:GLN:HG3	1.83	0.59
1:AA:637:G:H2'	1:AA:638:G:C8	2.38	0.59
1:AA:959:A:H2'	1:AA:960:U:C4'	2.32	0.59
2:AB:181:PHE:CD1	8:AH:70:GLN:HB3	2.37	0.59
3:AC:23:TYR:HA	10:AJ:11:PHE:CD2	2.37	0.59
3:AC:40:ARG:HG2	3:AC:55:VAL:HG11	1.84	0.59
15:AO:85:LEU:O	15:AO:85:LEU:HD23	2.01	0.59
23:AW:20:G:H5'	23:AW:21:U:H5"	1.85	0.59
35:BA:8:A:H2'	35:BA:9:U:C6	2.37	0.59
35:BA:2303:G:O2'	41:BG:132:ASN:HB2	2.03	0.59
35:BA:2656:U:H2'	35:BA:2657:A:H5"	1.84	0.59
39:BE:91:VAL:HG13	39:BE:95:ILE:HG13	1.82	0.59
40:BF:65:TRP:HZ3	40:BF:73:ALA:O	1.85	0.59
42:BH:24:VAL:HG11	42:BH:72:ILE:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:153:LYS:H	42:BH:153:LYS:CD	2.09	0.59
50:BS:96:GLY:O	50:BS:98:VAL:N	2.30	0.59
51:BT:51:ARG:HG2	51:BT:52:ILE:N	2.17	0.59
53:BV:18:LEU:CD1	53:BV:19:LYS:H	2.15	0.59
57:BZ:112:ARG:HD3	57:BZ:112:ARG:C	2.27	0.59
1:CA:308:C:H2'	1:CA:309:G:H8	1.68	0.59
1:CA:366:C:O2'	1:CA:394:G:N2	2.35	0.59
1:CA:696:A:O2'	1:CA:697:U:H5'	2.02	0.59
1:CA:1498:U:H1'	1:CA:1499:A:C8	2.38	0.59
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.03	0.59
4:CD:49:ARG:HA	4:CD:49:ARG:HE	1.66	0.59
4:CD:128:VAL:CG1	4:CD:129:ASN:H	2.12	0.59
22:CY:30:U:H2'	22:CY:31:C:H6	1.64	0.59
35:DA:500:G:N2	35:DA:502:A:H3'	2.18	0.59
35:DA:558:G:OP1	45:DN:111:PRO:HD2	2.03	0.59
35:DA:943:U:OP2	47:DP:38:GLN:CD	2.46	0.59
35:DA:1192:G:O2'	35:DA:1193:G:H5'	2.03	0.59
35:DA:2779:U:H4'	35:DA:2780:G:H5'	1.83	0.59
35:DA:2811:G:O2'	35:DA:2812:G:H5'	2.03	0.59
38:DD:270:ILE:O	38:DD:271:ILE:HG23	2.01	0.59
41:DG:63:ILE:HG21	41:DG:141:PHE:CB	2.31	0.59
41:DG:72:ARG:CG	41:DG:87:PRO:HD2	2.32	0.59
41:DG:95:ARG:O	41:DG:96:ARG:O	2.21	0.59
41:DG:131:TYR:CE1	41:DG:133:LEU:HD23	2.37	0.59
45:DN:1:MET:C	45:DN:2:LYS:HG3	2.28	0.59
47:DP:102:ARG:HB2	47:DP:102:ARG:HH11	1.66	0.59
51:DT:27:THR:HG23	51:DT:28:VAL:H	1.68	0.59
56:DY:2:ARG:HD3	56:DY:2:ARG:C	2.28	0.59
56:DY:84:ARG:HG2	56:DY:84:ARG:NH1	2.18	0.59
1:AA:6:G:H4'	1:AA:298:A:H4'	1.84	0.59
1:AA:69:G:H2'	1:AA:70:G:H8	1.68	0.59
1:AA:456:C:H2'	1:AA:457:C:C6	2.38	0.59
1:AA:775:G:O2'	1:AA:776:G:H5'	2.03	0.59
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.32	0.59
35:BA:108:U:H2'	35:BA:109:G:C8	2.38	0.59
35:BA:158:U:H2'	35:BA:171:G:O4'	2.03	0.59
35:BA:1176:G:O2'	35:BA:1177:A:H5'	2.03	0.59
35:BA:1244:G:C2'	35:BA:1245:G:H5'	2.33	0.59
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.02	0.59
35:BA:2122:U:H2'	35:BA:2123:G:C8	2.37	0.59
35:BA:2312:U:C2'	35:BA:2313:C:H5"	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:116:VAL:O	39:BE:117:MET:CB	2.44	0.59
48:BQ:43:THR:HG1	48:BQ:46:GLN:HG3	1.65	0.59
56:BY:39:VAL:HG12	56:BY:40:GLU:N	2.17	0.59
1:CA:272:C:H2'	1:CA:273:A:H8	1.66	0.59
1:CA:382:A:H2'	1:CA:383:A:H8	1.66	0.59
1:CA:484:G:H4'	1:CA:485:G:O5'	2.02	0.59
1:CA:979:C:C3'	1:CA:980:C:H5"	2.26	0.59
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.68	0.59
4:CD:96:LEU:CG	4:CD:139:ARG:HH22	2.15	0.59
5:CE:108:ALA:O	5:CE:112:LEU:HG	2.02	0.59
11:CK:15:ALA:CB	11:CK:78:GLN:HE21	2.15	0.59
23:CW:35:U:H2'	23:CW:37:A:OP2	2.02	0.59
23:CW:53:U:C4	23:CW:54:G:N7	2.70	0.59
35:DA:108:U:H2'	35:DA:109:G:H8	1.68	0.59
35:DA:304:G:H2'	35:DA:305:U:C6	2.37	0.59
35:DA:947:G:N2	35:DA:971:C:C2	2.71	0.59
35:DA:2562:U:C1'	46:DO:23:ARG:HH11	2.10	0.59
35:DA:2875:C:O2'	51:DT:5:ALA:HB3	2.02	0.59
37:DC:8:TYR:CE1	37:DC:221:PRO:HB3	2.38	0.59
39:DE:55:ASN:O	39:DE:57:LYS:N	2.36	0.59
39:DE:132:HIS:O	39:DE:135:HIS:NE2	2.35	0.59
47:DP:67:MET:HA	47:DP:67:MET:HE3	1.84	0.59
48:DQ:21:THR:HG21	48:DQ:101:ARG:HB2	1.84	0.59
48:DQ:109:VAL:HG12	48:DQ:113:GLN:OE1	2.02	0.59
50:DS:96:GLY:C	50:DS:98:VAL:H	2.11	0.59
52:DU:65:ILE:HD11	52:DU:96:ALA:HB3	1.84	0.59
52:DU:101:ARG:C	52:DU:102:GLU:HG2	2.27	0.59
52:DU:112:ARG:HH12	53:DV:46:VAL:CG1	2.16	0.59
53:DV:87:HIS:NE2	53:DV:89:GLN:HG2	2.18	0.59
1:AA:243:A:O2'	1:AA:244:U:OP2	2.19	0.59
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.35	0.59
1:AA:556:C:O2'	1:AA:557:G:H5'	2.03	0.59
1:AA:880:C:H2'	1:AA:881:G:H8	1.67	0.59
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.18	0.59
3:AC:127:ARG:HH11	3:AC:127:ARG:HG2	1.67	0.59
7:AG:111:ARG:NE	7:AG:123:GLU:HB2	2.17	0.59
9:AI:112:LYS:HE3	9:AI:116:LYS:O	2.02	0.59
10:AJ:6:ILE:HD11	10:AJ:72:VAL:CB	2.33	0.59
11:AK:15:ALA:CB	11:AK:78:GLN:HE21	2.15	0.59
16:AP:52:ASP:OD2	16:AP:55:ARG:HG3	2.03	0.59
23:AW:3:G:H1	23:AW:73:C:N4	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:44:A:H2'	23:AW:45:U:H5"	1.84	0.59
22:AY:29:A:C4	22:AY:30:U:C5	2.91	0.59
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.65	0.59
35:BA:90:U:H1'	35:BA:92:A:H8	1.67	0.59
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.63	0.59
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.38	0.59
40:BF:160:ASN:C	40:BF:160:ASN:HD22	2.11	0.59
41:BG:46:ALA:O	41:BG:82:LEU:HD11	2.03	0.59
47:BP:6:LEU:H	47:BP:6:LEU:CD2	2.14	0.59
50:BS:95:HIS:CG	50:BS:96:GLY:N	2.71	0.59
1:CA:233:C:H2'	1:CA:234:C:H6	1.68	0.59
1:CA:554:C:H2'	1:CA:555:C:H6	1.68	0.59
1:CA:1502:A:H2	1:CA:1505:G:H22	1.50	0.59
5:CE:60:TYR:HE1	5:CE:64:ARG:HH21	1.50	0.59
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.18	0.59
22:CV:23:A:N6	22:CV:48:G:H2'	2.18	0.59
23:CW:26:G:C5	23:CW:27:C:C4	2.91	0.59
23:CW:69:G:N2	23:CW:70:G:C4	2.71	0.59
35:DA:8:A:H2'	35:DA:9:U:C6	2.37	0.59
35:DA:128:C:H2'	35:DA:129:C:H6	1.68	0.59
35:DA:613:G:H8	35:DA:613:G:C5'	2.12	0.59
35:DA:631:A:OP1	47:DP:64:LYS:HE2	2.03	0.59
35:DA:1037:G:H1	35:DA:1118:C:N4	1.98	0.59
35:DA:2468:G:H22	35:DA:2481:G:H2'	1.66	0.59
38:DD:62:TYR:CE2	38:DD:64:ILE:HA	2.38	0.59
40:DF:132:VAL:HG22	40:DF:133:ASN:HD22	1.67	0.59
41:DG:120:LEU:N	41:DG:179:PRO:O	2.36	0.59
52:DU:92:ARG:NH1	53:DV:11:GLN:O	2.35	0.59
57:DZ:117:LEU:HD12	57:DZ:174:VAL:CG2	2.33	0.59
1:AA:233:C:H2'	1:AA:234:C:H6	1.66	0.59
1:AA:757:U:H2'	1:AA:758:G:O4'	2.03	0.59
22:AV:10:G:C2	22:AV:28:G:H1'	2.37	0.59
22:AY:58:C:OP2	57:BZ:182:LYS:NZ	2.30	0.59
27:B2:45:SER:H	27:B2:46:GLN:NE2	2.00	0.59
28:B3:52:HIS:CG	36:BB:83:G:H4'	2.38	0.59
33:B8:61:LEU:HD12	33:B8:62:LEU:H	1.68	0.59
35:BA:156:U:H4'	35:BA:157:U:C5'	2.32	0.59
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.03	0.59
35:BA:2779:U:H4'	35:BA:2780:G:H5'	1.85	0.59
35:BA:2839:G:H5'	49:BR:46:GLY:HA2	1.85	0.59
38:BD:182:LEU:H	38:BD:272:ALA:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:59:VAL:HG13	39:BE:60:ASN:N	2.18	0.59
39:BE:101:ARG:HB3	39:BE:169:ASN:ND2	2.18	0.59
43:BI:115:ALA:CB	43:BI:128:LEU:HB3	2.32	0.59
50:BS:17:ARG:HA	50:BS:20:ARG:NH1	2.18	0.59
55:BX:29:TRP:CZ3	55:BX:78:LYS:HB3	2.38	0.59
1:CA:764:C:O2'	1:CA:765:G:H5'	2.03	0.59
2:CB:187:LEU:HD13	2:CB:187:LEU:O	2.02	0.59
4:CD:47:ARG:NE	4:CD:49:ARG:NH2	2.50	0.59
12:CL:8:ASN:ND2	17:CQ:34:LYS:HE2	2.18	0.59
12:CL:58:VAL:O	12:CL:60:LEU:HD22	2.03	0.59
12:CL:81:SER:OG	12:CL:106:ASP:HB3	2.03	0.59
13:CM:118:ALA:HB1	13:CM:119:GLY:N	2.18	0.59
19:CS:22:LEU:HD12	19:CS:47:HIS:CE1	2.37	0.59
22:CV:3:G:N1	22:CV:4:C:C4	2.71	0.59
22:CV:14:A:N6	22:CV:15:G:C2	2.71	0.59
25:D0:81:VAL:O	25:D0:83:PRO:HD3	2.03	0.59
35:DA:158:U:H2'	35:DA:171:G:O4'	2.03	0.59
35:DA:418:G:O2'	35:DA:419:C:H5'	2.03	0.59
37:DC:178:LYS:HB2	37:DC:181:PHE:CD1	2.37	0.59
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.02	0.59
40:DF:133:ASN:H	40:DF:133:ASN:HD22	1.48	0.59
45:DN:93:THR:O	45:DN:94:HIS:HB2	2.03	0.59
46:DO:88:ASN:ND2	46:DO:90:GLN:H	2.00	0.59
48:DQ:55:VAL:CG2	57:DZ:180:VAL:HG13	2.33	0.59
49:DR:85:PRO:O	49:DR:87:TYR:N	2.35	0.59
56:DY:95:LYS:HG2	56:DY:101:LYS:N	2.18	0.59
1:AA:114:U:H2'	1:AA:115:G:H8	1.63	0.58
1:AA:191:G:H1'	20:AT:105:SER:CB	2.33	0.58
1:AA:197:A:C5	1:AA:221:C:H4'	2.38	0.58
1:AA:679:C:O2'	1:AA:680:C:H5'	2.03	0.58
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.38	0.58
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.37	0.58
3:AC:71:ALA:HB2	3:AC:106:VAL:HB	1.84	0.58
4:AD:98:GLU:HG3	4:AD:103:ASN:ND2	2.17	0.58
7:AG:16:LEU:HD11	9:AI:42:ARG:HG3	1.84	0.58
12:AL:36:VAL:N	12:AL:58:VAL:CG1	2.66	0.58
13:AM:23:TYR:HD2	13:AM:67:GLU:HA	1.68	0.58
25:B0:19:LYS:O	25:B0:21:LEU:HG	2.03	0.58
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.02	0.58
34:B9:7:VAL:HG12	34:B9:25:VAL:HG21	1.83	0.58
35:BA:274:G:H3'	35:BA:274:G:N3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:557:U:H2'	35:BA:558:G:H8	1.67	0.58
35:BA:654(A):G:C2'	35:BA:654(B):C:H5'	2.33	0.58
35:BA:1348:G:H2'	35:BA:1349:A:C5'	2.27	0.58
35:BA:1358:G:O2'	35:BA:1359:A:H5"	2.03	0.58
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.38	0.58
35:BA:2415:G:H4'	47:BP:67:MET:H	1.68	0.58
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.35	0.58
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.32	0.58
36:BB:50:G:OP1	50:BS:62:LYS:HB2	2.03	0.58
38:BD:44:ASN:HB2	38:BD:48:ARG:O	2.03	0.58
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.02	0.58
42:BH:80:SER:O	42:BH:81:GLU:HB2	2.03	0.58
46:BO:79:PHE:HB3	51:BT:70:VAL:HG11	1.85	0.58
56:BY:2:ARG:O	56:BY:4:LYS:N	2.34	0.58
57:BZ:27:VAL:HG22	57:BZ:28:MET:H	1.68	0.58
1:CA:1507:A:H2'	1:CA:1508:G:O4'	2.03	0.58
4:CD:98:GLU:HG3	4:CD:103:ASN:ND2	2.17	0.58
4:CD:106:TYR:C	4:CD:108:LEU:H	2.11	0.58
5:CE:76:ILE:HD11	5:CE:142:LEU:HD11	1.85	0.58
6:CF:3:ARG:HD3	6:CF:64:GLN:NE2	2.17	0.58
7:CG:16:LEU:HD11	9:CI:42:ARG:HG3	1.85	0.58
7:CG:111:ARG:NE	7:CG:123:GLU:HB2	2.17	0.58
8:CH:63:LEU:HD22	8:CH:63:LEU:H	1.68	0.58
11:CK:57:THR:HG23	11:CK:60:ALA:H	1.68	0.58
19:CS:69:HIS:HB2	19:CS:74:PHE:HE2	1.68	0.58
23:CW:52:C:H2'	23:CW:53:U:H6	1.68	0.58
35:DA:792:G:H5"	35:DA:793:A:H5'	1.85	0.58
35:DA:848:G:H2'	35:DA:849:A:C8	2.38	0.58
37:DC:225:ILE:O	37:DC:225:ILE:HD12	2.03	0.58
39:DE:34:VAL:CG1	39:DE:48:GLN:HG2	2.27	0.58
43:DI:69:LYS:CA	43:DI:136:VAL:HG11	2.30	0.58
47:DP:108:LYS:N	47:DP:108:LYS:HD2	2.17	0.58
51:DT:3:ARG:HB3	51:DT:6:LEU:HB2	1.85	0.58
51:DT:87:ASP:O	51:DT:87:ASP:OD1	2.21	0.58
1:AA:638:G:O2'	1:AA:639:G:H5'	2.03	0.58
2:AB:187:LEU:HD13	2:AB:187:LEU:O	2.02	0.58
4:AD:30:LYS:O	4:AD:32:ALA:N	2.36	0.58
8:AH:122:ARG:HH11	8:AH:122:ARG:CB	2.15	0.58
20:AT:84:LEU:HD13	20:AT:84:LEU:C	2.28	0.58
23:AW:68:A:C3'	23:AW:69:G:H5"	2.32	0.58
22:AY:6:C:H2'	22:AY:7:U:C5	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:56:U:H6	22:AY:56:U:O5'	1.85	0.58
22:AY:57:U:C5	57:BZ:182:LYS:C	2.81	0.58
25:B0:11:ARG:C	25:B0:12:ASN:HD22	2.10	0.58
26:B1:51:VAL:HG22	26:B1:53:VAL:HG23	1.84	0.58
26:B1:51:VAL:HG21	26:B1:74:VAL:HG21	1.85	0.58
35:BA:535:C:O2'	35:BA:536:A:H5'	2.02	0.58
35:BA:2795:G:N3	35:BA:2795:G:H2'	2.18	0.58
37:BC:33:LEU:HD13	37:BC:221:PRO:HG2	1.84	0.58
38:BD:263:ARG:HB2	38:BD:263:ARG:NH1	2.17	0.58
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.71	0.58
41:BG:71:THR:N	41:BG:89:GLY:O	2.34	0.58
41:BG:146:TYR:C	41:BG:148:MET:H	2.11	0.58
42:BH:148:ILE:O	42:BH:162:ILE:HD11	2.03	0.58
42:BH:156:ALA:O	42:BH:158:HIS:N	2.36	0.58
43:BI:38:LEU:HB3	43:BI:40:THR:HG23	1.86	0.58
52:BU:83:LEU:H	52:BU:83:LEU:CD2	2.12	0.58
54:BW:58:ALA:HB1	54:BW:64:MET:SD	2.42	0.58
56:BY:54:LYS:O	56:BY:56:PRO:HD2	2.03	0.58
57:BZ:110:GLY:HA3	57:BZ:146:ILE:HG23	1.84	0.58
1:CA:147:G:H2'	1:CA:148:G:C8	2.39	0.58
1:CA:959:A:H2'	1:CA:960:U:C4'	2.33	0.58
1:CA:1190:G:P	3:CC:5:ILE:HD12	2.43	0.58
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.38	0.58
1:CA:1490:C:H2'	1:CA:1491:G:H5'	1.84	0.58
8:CH:17:THR:HB	8:CH:78:GLN:OE1	2.03	0.58
33:D8:30:ARG:HA	33:D8:30:ARG:NE	2.18	0.58
35:DA:143:G:H1'	55:DX:37:THR:HG21	1.85	0.58
35:DA:176:G:O2'	35:DA:177:G:H5'	2.03	0.58
35:DA:782:A:H5'	35:DA:783:A:C2	2.38	0.58
35:DA:1449:A:H5'	35:DA:1450:G:OP2	2.02	0.58
35:DA:1658:C:OP1	39:DE:132:HIS:CE1	2.56	0.58
35:DA:2312:U:C2'	35:DA:2313:C:H5"	2.33	0.58
35:DA:2392:A:H2	35:DA:2424:C:N4	1.96	0.58
38:DD:31:LYS:O	38:DD:33:LEU:N	2.37	0.58
38:DD:34:VAL:HG23	38:DD:35:LYS:H	1.67	0.58
43:DI:33:ARG:HB2	43:DI:35:LEU:HG	1.85	0.58
56:DY:2:ARG:O	56:DY:4:LYS:N	2.33	0.58
57:DZ:75:ASN:O	57:DZ:84:GLU:HB2	2.03	0.58
1:AA:584:G:H2'	1:AA:585:G:C8	2.38	0.58
1:AA:1463:C:O2'	1:AA:1464:G:H5'	2.03	0.58
11:AK:13:GLN:NE2	11:AK:75:TYR:HA	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.02	0.58
22:AY:25:A:O2'	22:AY:26:G:H5'	2.04	0.58
22:AY:52:C:C4	22:AY:53:U:C4	2.92	0.58
22:AY:57:U:O4	22:AY:60:A:OP2	2.21	0.58
35:BA:27:G:H22	35:BA:512:G:C2'	2.16	0.58
35:BA:1816:G:H8	38:BD:62:TYR:CZ	2.21	0.58
36:BB:50:G:OP2	50:BS:62:LYS:HG3	2.04	0.58
38:BD:79:VAL:HG21	38:BD:111:LEU:CD1	2.32	0.58
39:BE:55:ASN:O	39:BE:57:LYS:N	2.36	0.58
39:BE:70:ALA:O	39:BE:72:VAL:N	2.36	0.58
42:BH:68:THR:O	42:BH:70:THR:N	2.36	0.58
42:BH:106:THR:HG22	42:BH:112:PRO:HB3	1.85	0.58
46:BO:64:ARG:O	46:BO:82:ASN:HA	2.03	0.58
47:BP:16:ARG:HB2	47:BP:16:ARG:HH11	1.67	0.58
51:BT:64:ARG:HD2	51:BT:73:GLU:HG2	1.85	0.58
51:BT:116:ALA:HB1	51:BT:121:ILE:CD1	2.32	0.58
53:BV:5:VAL:HG23	53:BV:37:VAL:O	2.03	0.58
56:BY:84:ARG:HD2	56:BY:97:ARG:CD	2.33	0.58
57:BZ:108:PRO:HB3	57:BZ:144:LEU:HD23	1.85	0.58
57:BZ:157:LEU:HD23	57:BZ:157:LEU:H	1.67	0.58
1:CA:1255:G:H2'	1:CA:1255:G:N3	2.17	0.58
3:CC:127:ARG:HH11	3:CC:127:ARG:HG2	1.67	0.58
3:CC:167:TRP:O	3:CC:168:ALA:HB3	2.04	0.58
12:CL:86:ARG:NH2	12:CL:99:HIS:ND1	2.51	0.58
19:CS:49:ILE:O	19:CS:51:VAL:HG23	2.03	0.58
20:CT:26:ASN:HA	20:CT:29:LYS:HG2	1.85	0.58
20:CT:84:LEU:C	20:CT:84:LEU:HD13	2.28	0.58
22:CY:56:U:H2'	57:DZ:183:LEU:HA	1.84	0.58
34:D9:4:ARG:HD2	34:D9:34:GLN:HE21	1.67	0.58
35:DA:779:U:OP1	38:DD:49:ILE:HG22	2.03	0.58
35:DA:2022:U:O2'	35:DA:2617:C:H5'	2.02	0.58
35:DA:2136:C:H2'	35:DA:2137:C:C6	2.38	0.58
35:DA:2520:C:H6	35:DA:2520:C:O5'	1.85	0.58
36:DB:73:A:N6	57:DZ:29:TYR:HE2	2.00	0.58
39:DE:50:GLY:C	39:DE:74:PRO:HG2	2.28	0.58
39:DE:69:LYS:HE3	39:DE:90:THR:OG1	2.02	0.58
39:DE:107:THR:HA	39:DE:163:GLU:O	2.02	0.58
42:DH:24:VAL:HG11	42:DH:72:ILE:HD11	1.85	0.58
43:DI:81:VAL:N	43:DI:143:SER:HB2	2.17	0.58
47:DP:62:LEU:HD23	47:DP:63:PRO:N	2.18	0.58
49:DR:98:LEU:HB2	49:DR:113:LEU:CD2	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:89:ARG:HB3	50:DS:92:TYR:HB3	1.83	0.58
51:DT:70:VAL:HG12	51:DT:71:GLY:O	2.03	0.58
53:DV:18:LEU:CD1	53:DV:19:LYS:H	2.16	0.58
1:AA:648:A:H2'	1:AA:649:G:C8	2.39	0.58
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.02	0.58
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.03	0.58
2:AB:155:LEU:HD12	2:AB:157:ARG:O	2.02	0.58
12:AL:41:ARG:NE	12:AL:43:VAL:HG12	2.18	0.58
12:AL:60:LEU:HB2	12:AL:64:TYR:O	2.03	0.58
12:AL:81:SER:OG	12:AL:106:ASP:HB3	2.03	0.58
13:AM:6:GLY:O	13:AM:8:GLU:N	2.36	0.58
14:AN:40:CYS:SG	58:AN:1000:ZN:ZN	1.88	0.58
22:AV:10:G:N2	22:AV:28:G:C1'	2.63	0.58
22:AV:71:G:H2'	22:AV:71:G:N3	2.18	0.58
31:B6:27:LYS:HB3	31:B6:30:THR:CG2	2.33	0.58
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.85	0.58
34:B9:10:ILE:HD12	34:B9:32:HIS:CB	2.33	0.58
35:BA:207:A:H2'	35:BA:208:C:O4'	2.04	0.58
35:BA:225:A:H2'	35:BA:226:G:H5'	1.86	0.58
35:BA:1434:A:H61	35:BA:1558:A:N6	2.00	0.58
35:BA:2189:U:C3'	35:BA:2190:G:H5"	2.33	0.58
40:BF:132:VAL:HG22	40:BF:133:ASN:HD22	1.68	0.58
41:BG:142:PRO:HG2	41:BG:143:GLU:H	1.67	0.58
43:BI:33:ARG:HB2	43:BI:35:LEU:HG	1.86	0.58
47:BP:50:ARG:HG2	47:BP:50:ARG:NH1	2.16	0.58
51:BT:46:GLU:OE2	51:BT:88:ILE:HG13	2.03	0.58
56:BY:27:VAL:HA	56:BY:28:LYS:NZ	2.18	0.58
1:CA:532:A:H61	3:CC:193:TYR:CB	2.16	0.58
1:CA:552:U:O2'	1:CA:553:A:H5'	2.03	0.58
3:CC:155:GLY:O	3:CC:196:LEU:HD13	2.02	0.58
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.84	0.58
6:CF:37:VAL:CG1	6:CF:38:GLU:H	2.17	0.58
8:CH:8:ASP:O	8:CH:11:THR:N	2.37	0.58
8:CH:109:ILE:HG22	8:CH:137:VAL:O	2.03	0.58
10:CJ:95:GLU:HG3	10:CJ:96:ILE:N	2.18	0.58
18:CR:46:GLU:HA	18:CR:46:GLU:OE1	2.02	0.58
23:CW:39:A:H5"	23:CW:40:A:OP2	2.03	0.58
23:CW:52:C:C2	23:CW:53:U:C5	2.91	0.58
22:CY:4:C:N4	22:CY:72:C:H5	2.02	0.58
22:CY:70:G:C4	22:CY:71:G:C8	2.92	0.58
28:D3:1:MET:C	28:D3:3:ARG:H	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1176:G:O2'	35:DA:1177:A:H5'	2.03	0.58
42:DH:19:VAL:CG2	42:DH:44:VAL:HA	2.27	0.58
42:DH:105:LEU:H	42:DH:105:LEU:CD2	2.16	0.58
42:DH:136:ILE:HD12	42:DH:136:ILE:H	1.66	0.58
44:DJ:118:UNK:C	44:DJ:120:UNK:H	2.17	0.58
45:DN:3:THR:O	45:DN:4:TYR:CD1	2.56	0.58
45:DN:120:LEU:HD23	45:DN:121:LYS:N	2.18	0.58
51:DT:25:GLY:O	51:DT:26:ASP:HB2	2.03	0.58
56:DY:39:VAL:HG12	56:DY:40:GLU:N	2.19	0.58
57:DZ:145:GLU:CG	57:DZ:146:ILE:N	2.64	0.58
1:AA:943:U:C2'	1:AA:944:G:H5'	2.34	0.58
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.68	0.58
2:AB:56:ARG:HH11	2:AB:56:ARG:HG2	1.69	0.58
3:AC:40:ARG:HG2	3:AC:55:VAL:CG1	2.33	0.58
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	2.03	0.58
11:AK:24:SER:O	11:AK:26:ASN:N	2.36	0.58
13:AM:116:THR:HG22	13:AM:116:THR:O	2.03	0.58
19:AS:31:ILE:CG2	19:AS:49:ILE:HA	2.34	0.58
23:AW:55:G:H2'	23:AW:56:U:C6	2.39	0.58
22:AY:56:U:H2'	57:BZ:183:LEU:CG	2.32	0.58
26:B1:19:GLN:HB2	26:B1:35:THR:HG23	1.84	0.58
35:BA:1015:G:O2'	35:BA:1016:G:H5'	2.02	0.58
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.03	0.58
35:BA:1537:G:H2'	35:BA:1538:G:C8	2.27	0.58
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.04	0.58
35:BA:2472:G:H3'	35:BA:2475:C:H42	1.68	0.58
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.04	0.58
37:BC:11:LEU:HB3	37:BC:33:LEU:HD22	1.85	0.58
39:BE:65:GLY:HA2	39:BE:70:ALA:CB	2.33	0.58
45:BN:120:LEU:HD21	45:BN:122:VAL:HG23	1.85	0.58
48:BQ:28:ALA:O	48:BQ:29:PHE:CD1	2.56	0.58
48:BQ:42:ILE:HD13	48:BQ:97:VAL:CG2	2.33	0.58
51:BT:57:PHE:CG	51:BT:58:ASN:N	2.63	0.58
54:BW:22:ASP:HA	54:BW:25:ARG:NH1	2.17	0.58
56:BY:44:ILE:N	56:BY:62:GLU:OE1	2.35	0.58
57:BZ:7:ALA:O	57:BZ:62:PRO:HD3	2.03	0.58
1:CA:600:C:OP1	8:CH:97:VAL:HG12	2.03	0.58
1:CA:731:G:OP1	1:CA:766:A:H1'	2.04	0.58
1:CA:874:G:H2'	1:CA:875:C:C6	2.38	0.58
1:CA:1523:G:H2'	1:CA:1524:C:H6	1.69	0.58
2:CB:194:PRO:HG2	2:CB:195:ASP:OD1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:112:GLY:HA2	13:CM:113:PRO:CG	2.34	0.58
21:CU:2:GLY:O	21:CU:4:GLY:N	2.36	0.58
22:CV:6:C:N3	22:CV:69:G:O6	2.36	0.58
23:CW:44:A:H2'	23:CW:45:U:C5'	2.34	0.58
23:CW:68:A:C3'	23:CW:69:G:H5"	2.33	0.58
22:CY:24:A:C2	22:CY:25:A:C8	2.91	0.58
27:D2:46:GLN:HG2	27:D2:49:LYS:NZ	2.18	0.58
29:D4:50:VAL:C	29:D4:52:THR:H	2.12	0.58
33:D8:13:ARG:HB3	47:DP:63:PRO:HB3	1.84	0.58
35:DA:1505:C:H2'	35:DA:1506:C:O4'	2.03	0.58
35:DA:1652:A:H3'	35:DA:1653:G:C8	2.38	0.58
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.04	0.58
35:DA:1914:C:H3'	35:DA:1914:C:P	2.44	0.58
36:DB:30:C:H2'	36:DB:31:C:O4'	2.04	0.58
36:DB:45:A:H1'	41:DG:95:ARG:HH21	1.67	0.58
39:DE:65:GLY:HA2	39:DE:70:ALA:CB	2.33	0.58
39:DE:105:THR:HG21	39:DE:164:ARG:NH1	2.19	0.58
53:DV:39:LEU:HA	53:DV:47:VAL:CG1	2.34	0.58
57:DZ:44:PHE:CZ	57:DZ:86:VAL:HG21	2.38	0.58
57:DZ:128:VAL:CG2	57:DZ:132:ASN:HB2	2.33	0.58
1:AA:930:C:O2'	1:AA:931:C:H5'	2.04	0.58
1:AA:1054:C:O2'	1:AA:1055:A:C5'	2.52	0.58
1:AA:1442(A):G:C3'	1:AA:1442(B):A:H5'	2.33	0.58
12:AL:43:VAL:HG23	12:AL:44:THR:N	2.17	0.58
20:AT:26:ASN:HA	20:AT:29:LYS:HG2	1.84	0.58
22:AY:57:U:O5'	57:BZ:182:LYS:C	2.47	0.58
35:BA:1915:U:C2'	35:BA:1916:A:H5"	2.33	0.58
35:BA:2257:U:O2'	35:BA:2258:C:H5'	2.03	0.58
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.37	0.58
39:BE:50:GLY:C	39:BE:74:PRO:HG2	2.28	0.58
39:BE:105:THR:HG21	39:BE:164:ARG:NH1	2.18	0.58
40:BF:20:LEU:HD12	40:BF:199:TRP:CZ3	2.38	0.58
40:BF:110:LEU:HA	40:BF:183:VAL:HG12	1.86	0.58
42:BH:88:LEU:HD12	42:BH:130:ARG:HG2	1.84	0.58
43:BI:145:VAL:HG23	43:BI:146:ALA:N	2.18	0.58
50:BS:97:ARG:C	50:BS:97:ARG:NE	2.62	0.58
51:BT:2:ASN:O	51:BT:3:ARG:C	2.46	0.58
1:CA:556:C:O2'	1:CA:557:G:H5'	2.03	0.58
1:CA:924:C:H2'	1:CA:925:G:C8	2.38	0.58
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.38	0.58
1:CA:1490:C:C2'	1:CA:1491:G:H5'	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:171:ALA:HA	2:CB:174:VAL:HG23	1.84	0.58
7:CG:44:TYR:O	7:CG:48:LYS:HG3	2.03	0.58
9:CI:47:LEU:C	9:CI:49:PRO:HD2	2.28	0.58
12:CL:85:ILE:HG13	12:CL:98:TYR:HB3	1.85	0.58
23:CW:13:U:H2'	23:CW:14:A:H5"	1.83	0.58
33:D8:23:VAL:CG1	33:D8:46:ARG:HB3	2.33	0.58
35:DA:142:A:H5"	35:DA:142(A):C:C5	2.38	0.58
35:DA:1131:G:O2'	35:DA:1132:A:H8	1.84	0.58
35:DA:2152:G:H2'	35:DA:2153:G:C8	2.39	0.58
35:DA:2158:A:H4'	35:DA:2159:G:C5'	2.32	0.58
35:DA:2795:G:H2'	35:DA:2795:G:N3	2.17	0.58
36:DB:94:C:H2'	36:DB:95:C:C6	2.37	0.58
38:DD:94:LEU:HB2	38:DD:104:TYR:HE1	1.69	0.58
43:DI:74:ASN:N	43:DI:74:ASN:ND2	2.43	0.58
47:DP:38:GLN:CG	47:DP:39:LYS:H	2.00	0.58
50:DS:88:ASP:OD1	50:DS:89:ARG:N	2.36	0.58
56:DY:28:LYS:HB3	56:DY:38:ILE:N	2.13	0.58
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.39	0.58
2:AB:17:PHE:HD2	2:AB:44:LEU:HD11	1.68	0.58
4:AD:106:TYR:C	4:AD:108:LEU:H	2.11	0.58
4:AD:148:VAL:HG12	4:AD:152:SER:HB2	1.85	0.58
5:AE:69:VAL:O	5:AE:71:LEU:N	2.36	0.58
22:AV:34:C:O2	22:AV:34:C:H2'	2.03	0.58
23:AW:42:C:C5	23:AW:43:G:C8	2.92	0.58
26:B1:51:VAL:HG13	26:B1:58:ILE:CG1	2.33	0.58
33:B8:14:VAL:CG2	33:B8:22:VAL:HG13	2.34	0.58
35:BA:2188:C:H2'	35:BA:2189:U:O4'	2.03	0.58
35:BA:2401:U:C2'	35:BA:2402:C:H5"	2.33	0.58
37:BC:26:ALA:CB	37:BC:225:ILE:HG21	2.34	0.58
40:BF:18:ARG:HH21	40:BF:20:LEU:HD11	1.68	0.58
41:BG:6:ALA:O	41:BG:7:LEU:C	2.46	0.58
49:BR:13:HIS:O	49:BR:14:SER:C	2.46	0.58
50:BS:96:GLY:C	50:BS:98:VAL:H	2.11	0.58
51:BT:91:ARG:CB	51:BT:116:ALA:HA	2.33	0.58
56:BY:84:ARG:HG2	56:BY:84:ARG:NH1	2.18	0.58
57:BZ:57:ILE:HG22	57:BZ:58:VAL:N	2.17	0.58
1:CA:930:C:O2'	1:CA:931:C:H5'	2.03	0.58
1:CA:1057:G:H5"	3:CC:154:SER:CB	2.12	0.58
1:CA:1367:C:H4'	10:CJ:48:THR:HG21	1.85	0.58
8:CH:91:ARG:HH12	17:CQ:33:GLY:HA3	1.69	0.58
9:CI:33:PHE:CE1	9:CI:37:PHE:HD2	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:39:VAL:HB	12:CL:57:LYS:HZ2	1.68	0.58
12:CL:49:ASN:HD22	12:CL:49:ASN:N	2.00	0.58
12:CL:89:ARG:HD3	12:CL:90:VAL:N	2.18	0.58
17:CQ:9:VAL:HG11	17:CQ:84:LEU:HD12	1.85	0.58
18:CR:36:ASN:HB3	18:CR:39:VAL:HB	1.86	0.58
22:CV:69:G:C4	22:CV:70:G:C8	2.92	0.58
23:CW:33:G:H2'	23:CW:34:C:O4'	2.02	0.58
25:D0:47:PRO:HB3	25:D0:51:VAL:O	2.03	0.58
34:D9:10:ILE:HD12	34:D9:32:HIS:HB3	1.85	0.58
35:DA:962:G:O2'	35:DA:963:U:H5'	2.02	0.58
35:DA:1970:A:H5"	35:DA:1971:A:OP1	2.04	0.58
35:DA:2189:U:C3'	35:DA:2190:G:H5"	2.34	0.58
35:DA:2401:U:C2'	35:DA:2402:C:H5"	2.34	0.58
35:DA:2506:U:H4'	35:DA:2507:C:OP1	2.04	0.58
39:DE:59:VAL:HG13	39:DE:60:ASN:N	2.18	0.58
39:DE:93:VAL:CG1	39:DE:175:VAL:HG23	2.33	0.58
40:DF:84:VAL:HG12	40:DF:85:GLY:N	2.19	0.58
42:DH:9:ILE:HD12	42:DH:50:VAL:HB	1.86	0.58
43:DI:66:GLU:OE2	43:DI:134:PRO:HD2	2.04	0.58
45:DN:43:THR:HB	45:DN:46:VAL:CG1	2.32	0.58
45:DN:57:ALA:O	45:DN:58:ASP:O	2.21	0.58
47:DP:57:THR:HB	47:DP:59:LEU:H	1.68	0.58
49:DR:2:ARG:HD3	49:DR:5:LYS:CE	2.33	0.58
49:DR:58:GLY:HA2	49:DR:80:PHE:HE1	1.68	0.58
51:DT:2:ASN:O	51:DT:3:ARG:C	2.47	0.58
55:DX:24:GLY:O	55:DX:82:GLN:HA	2.04	0.58
56:DY:66:PRO:O	56:DY:67:LEU:HB3	2.03	0.58
57:DZ:46:LYS:O	57:DZ:49:ARG:HB2	2.04	0.58
1:AA:179:A:O2'	1:AA:180:U:H5'	2.04	0.58
1:AA:731:G:OP1	1:AA:766:A:H1'	2.02	0.58
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.66	0.58
1:AA:1285:A:H1'	1:AA:1286:A:OP2	2.02	0.58
2:AB:55:PHE:CD1	2:AB:58:ILE:HD12	2.39	0.58
3:AC:181:ASN:HD21	3:AC:204:LEU:HB2	1.69	0.58
16:AP:43:LYS:O	16:AP:45:THR:N	2.33	0.58
19:AS:16:LEU:O	19:AS:20:LEU:N	2.23	0.58
22:AV:76:C:H2'	22:AV:77:C:H5'	1.85	0.58
23:AW:10:G:C6	23:AW:27:C:H2'	2.38	0.58
22:AY:24:A:N6	22:AY:48:G:H22	2.02	0.58
35:BA:482:A:H4'	56:BY:47:LYS:HG2	1.86	0.58
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.39	0.58
36:BB:20:C:C3'	36:BB:21:G:H5"	2.34	0.58
38:BD:28:GLU:H	38:BD:29:PRO:CD	2.16	0.58
41:BG:43:LEU:HB2	41:BG:88:ILE:CG2	2.34	0.58
43:BI:11:ASN:C	43:BI:12:LEU:HD23	2.29	0.58
43:BI:91:SER:O	43:BI:92:VAL:HG23	2.04	0.58
47:BP:18:ARG:O	47:BP:18:ARG:NH1	2.36	0.58
47:BP:67:MET:HA	47:BP:67:MET:HE3	1.85	0.58
1:CA:560:U:O2'	1:CA:561:U:OP2	2.19	0.58
1:CA:821:G:H2'	1:CA:822:C:C6	2.38	0.58
1:CA:943:U:C2'	1:CA:944:G:H5'	2.34	0.58
1:CA:1129:C:H5"	1:CA:1139:G:O6	2.04	0.58
1:CA:1505:G:H4'	1:CA:1506:U:H5'	1.84	0.58
7:CG:47:CYS:O	7:CG:50:ILE:HB	2.04	0.58
13:CM:23:TYR:HD2	13:CM:67:GLU:HA	1.68	0.58
13:CM:69:GLU:HA	13:CM:70:LEU:N	2.19	0.58
20:CT:31:SER:HA	20:CT:34:LYS:HD2	1.86	0.58
22:CV:7:U:H3'	22:CV:8:U:H5'	1.86	0.58
22:CV:31:C:H2'	22:CV:32:G:C8	2.39	0.58
22:CY:19:G:H8	57:DZ:186:GLU:C	2.03	0.58
22:CY:25:A:H2'	22:CY:26:G:H8	1.67	0.58
22:CY:28:G:H2'	22:CY:28:G:N3	2.18	0.58
25:D0:19:LYS:O	25:D0:21:LEU:HG	2.03	0.58
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.66	0.58
35:DA:547:A:H1'	35:DA:548:A:N7	2.19	0.58
35:DA:1286:A:O2'	35:DA:1288:U:OP2	2.19	0.58
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.66	0.58
36:DB:20:C:C3'	36:DB:21:G:H5"	2.33	0.58
41:DG:51:ARG:CZ	41:DG:53:LEU:HD21	2.34	0.58
42:DH:154:PRO:HB3	42:DH:163:TYR:CZ	2.39	0.58
43:DI:101:LEU:O	43:DI:107:VAL:HB	2.04	0.58
45:DN:58:ASP:OD1	45:DN:124:ALA:HB1	2.04	0.58
57:DZ:149:SER:CB	57:DZ:173:ALA:HA	2.34	0.58
1:AA:867:G:H2'	1:AA:868:C:H6	1.68	0.58
1:AA:952:U:H2'	1:AA:953:G:H8	1.69	0.58
1:AA:1128:C:H5'	9:AI:16:ARG:HH12	1.68	0.58
3:AC:7:PRO:O	3:AC:11:ARG:HG2	2.03	0.58
5:AE:76:ILE:HG12	5:AE:77:PRO:CD	2.30	0.58
7:AG:75:VAL:HG12	7:AG:88:PRO:HB3	1.86	0.58
7:AG:92:SER:O	7:AG:96:GLN:HG3	2.04	0.58
10:AJ:8:LEU:O	10:AJ:16:LEU:HD21	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:72:C:H2'	23:AW:73:C:C6	2.39	0.58
22:AY:71:G:C6	22:AY:72:C:C4	2.91	0.58
35:BA:621:A:H2'	35:BA:622:G:C5'	2.34	0.58
35:BA:1332:G:H21	35:BA:1610:A:H8	1.49	0.58
35:BA:1396:U:H2'	35:BA:1396:U:O2	2.03	0.58
35:BA:2087:G:O2'	35:BA:2088:G:H5'	2.04	0.58
35:BA:2681:C:H5	35:BA:2725:A:N6	1.93	0.58
39:BE:93:VAL:CG1	39:BE:175:VAL:HG23	2.33	0.58
41:BG:88:ILE:CG2	41:BG:89:GLY:N	2.66	0.58
41:BG:125:PHE:HB3	41:BG:130:ASN:O	2.04	0.58
47:BP:123:LEU:O	47:BP:123:LEU:HD12	2.02	0.58
49:BR:9:LYS:O	49:BR:10:LEU:HD23	2.03	0.58
57:BZ:92:SER:C	57:BZ:130:PRO:HG2	2.29	0.58
57:BZ:183:LEU:CG	57:BZ:186:GLU:OE2	2.48	0.58
1:CA:643:C:H5'	8:CH:31:PHE:CD1	2.39	0.58
1:CA:663:A:O2'	1:CA:664:G:H5'	2.04	0.58
1:CA:679:C:O2'	1:CA:680:C:H5'	2.04	0.58
1:CA:1054:C:O2'	1:CA:1055:A:C5'	2.52	0.58
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.39	0.58
2:CB:17:PHE:HD2	2:CB:44:LEU:HD11	1.68	0.58
3:CC:39:ILE:O	3:CC:43:LEU:HG	2.04	0.58
4:CD:39:PRO:O	4:CD:44:GLY:HA3	2.04	0.58
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.85	0.58
8:CH:77:GLU:HG2	8:CH:78:GLN:H	1.67	0.58
11:CK:107:SER:C	11:CK:108:ILE:HD12	2.29	0.58
19:CS:62:ILE:CD1	19:CS:66:MET:HE2	2.31	0.58
22:CY:35:U:H5'	22:CY:36:AG9:OP2	2.04	0.58
25:D0:11:ARG:C	25:D0:12:ASN:HD22	2.11	0.58
26:D1:73:LEU:HD12	26:D1:94:LEU:HB3	1.86	0.58
35:DA:274:G:H3'	35:DA:274:G:N3	2.18	0.58
35:DA:803:U:C2'	35:DA:804:A:H5'	2.33	0.58
35:DA:1174:A:OP1	35:DA:1175:U:H5"	2.04	0.58
35:DA:1486:A:H61	35:DA:1504:C:N4	2.02	0.58
35:DA:1503:U:O2'	35:DA:1504:C:H5'	2.03	0.58
38:DD:95:LEU:O	38:DD:95:LEU:HD12	2.04	0.58
47:DP:17:LYS:C	47:DP:19:VAL:H	2.11	0.58
47:DP:40:SER:O	47:DP:41:ARG:NE	2.33	0.58
48:DQ:27:VAL:HG13	48:DQ:105:GLU:CD	2.29	0.58
56:DY:26:LYS:O	56:DY:28:LYS:HE3	2.04	0.58
56:DY:53:PRO:O	56:DY:54:LYS:HG3	2.04	0.58
57:DZ:6:LYS:HD3	57:DZ:6:LYS:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:22:G:H2'	1:AA:23:C:C6	2.39	0.58
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	2.03	0.58
1:AA:1152:A:H5"	10:AJ:13:HIS:CD2	2.38	0.58
1:AA:1181:G:O2'	1:AA:1184:G:H5'	2.03	0.58
1:AA:1190:G:P	3:AC:5:ILE:HD12	2.44	0.58
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.39	0.58
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.17	0.58
2:AB:142:LEU:HA	2:AB:145:LEU:HB2	1.86	0.58
3:AC:36:ASP:OD1	3:AC:57:ILE:HD12	2.03	0.58
3:AC:155:GLY:O	3:AC:196:LEU:HD13	2.04	0.58
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.04	0.58
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.04	0.58
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.19	0.58
11:AK:126:ARG:HB3	11:AK:126:ARG:HH11	1.68	0.58
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.86	0.58
15:AO:39:LEU:C	15:AO:39:LEU:HD13	2.29	0.58
15:AO:54:ARG:HD3	15:AO:58:MET:CE	2.33	0.58
19:AS:44:MET:HB3	19:AS:62:ILE:HG12	1.86	0.58
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.04	0.58
22:AV:15:G:C8	22:AV:16:U:H5	2.22	0.58
22:AY:7:U:H3'	22:AY:8:U:H5'	1.85	0.58
22:AY:12:U:N3	22:AY:26:G:C2	2.72	0.58
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.19	0.58
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.69	0.58
36:BB:50:G:OP2	50:BS:62:LYS:HB2	2.04	0.58
43:BI:68:LEU:O	43:BI:68:LEU:HD23	2.03	0.58
45:BN:2:LYS:HZ1	53:BV:12:TYR:HA	1.68	0.58
47:BP:47:ASP:HB3	47:BP:48:PRO:O	2.03	0.58
47:BP:64:LYS:C	47:BP:66:GLY:H	2.11	0.58
53:BV:46:VAL:HG13	53:BV:47:VAL:N	2.17	0.58
54:BW:6:ILE:HG12	54:BW:104:THR:OG1	2.04	0.58
56:BY:7:VAL:HB	56:BY:8:LYS:HD2	1.85	0.58
1:CA:167:G:H2'	1:CA:168:G:H8	1.68	0.58
1:CA:580:U:H2'	1:CA:581:G:O4'	2.03	0.58
1:CA:1107:C:C3'	1:CA:1108:G:H5"	2.34	0.58
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.03	0.58
2:CB:56:ARG:HH11	2:CB:56:ARG:HG2	1.69	0.58
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	1.86	0.58
7:CG:64:GLN:HG3	7:CG:68:ASN:ND2	2.18	0.58
15:CO:56:LEU:O	15:CO:60:VAL:HG23	2.04	0.58
22:CV:20:G:N2	22:CV:58:C:C2	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CY:43:G:C2	22:CY:44:A:C4	2.92	0.58
22:CY:69:G:C4	22:CY:70:G:C8	2.91	0.58
25:D0:53:MET:HG3	25:D0:59:LEU:HD23	1.85	0.58
29:D4:22:ILE:HD12	29:D4:22:ILE:N	2.19	0.58
35:DA:1818:U:O4	38:DD:154:LYS:HE3	2.03	0.58
35:DA:2724:C:P	49:DR:2:ARG:NH2	2.77	0.58
36:DB:40:U:O2	36:DB:43:C:H5"	2.03	0.58
43:DI:11:ASN:C	43:DI:12:LEU:HD23	2.29	0.58
48:DQ:134:ARG:NH2	57:DZ:122:ARG:NE	2.49	0.58
50:DS:95:HIS:CG	50:DS:96:GLY:N	2.72	0.58
51:DT:6:LEU:HD23	51:DT:9:LEU:HB2	1.86	0.58
54:DW:9:TYR:H	54:DW:102:HIS:HD2	1.50	0.58
1:AA:373:A:O2'	1:AA:374:A:H5'	2.04	0.57
1:AA:764:C:O2'	1:AA:765:G:H5'	2.04	0.57
1:AA:1107:C:C3'	1:AA:1108:G:H5"	2.34	0.57
4:AD:96:LEU:CG	4:AD:139:ARG:HH22	2.16	0.57
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.69	0.57
9:AI:63:ILE:HG22	9:AI:64:THR:N	2.18	0.57
12:AL:72:GLY:C	12:AL:73:GLU:HG3	2.29	0.57
22:AV:8:U:C2	22:AV:15:G:O6	2.57	0.57
22:AV:12:U:C2	22:AV:26:G:N2	2.72	0.57
23:AW:4:C:H2'	23:AW:4:C:P	2.44	0.57
22:AY:43:G:C2	22:AY:44:A:C4	2.92	0.57
22:AY:60:A:N1	57:BZ:186:GLU:CB	2.65	0.57
26:B1:19:GLN:O	26:B1:35:THR:HG22	2.03	0.57
30:B5:4:HIS:O	35:BA:2056:G:N2	2.37	0.57
35:BA:221:A:H4'	35:BA:222:A:O5'	2.04	0.57
35:BA:536:A:OP1	52:BU:53:ARG:NH1	2.37	0.57
35:BA:1039:G:C6	35:BA:1040:C:N4	2.71	0.57
35:BA:1914:C:P	35:BA:1914:C:H3'	2.44	0.57
35:BA:2152:G:H2'	35:BA:2153:G:C8	2.39	0.57
41:BG:48:GLU:O	41:BG:49:ASP:CB	2.52	0.57
42:BH:9:ILE:HD11	42:BH:76:VAL:HG21	1.86	0.57
46:BO:77:ILE:HD13	51:BT:74:ARG:CD	2.34	0.57
51:BT:28:VAL:HG22	51:BT:46:GLU:C	2.28	0.57
56:BY:26:LYS:O	56:BY:28:LYS:HE3	2.03	0.57
57:BZ:171:ILE:C	57:BZ:171:ILE:HD12	2.29	0.57
3:CC:95:THR:HG22	3:CC:97:LYS:HB2	1.85	0.57
5:CE:41:VAL:CG1	5:CE:113:ALA:HA	2.34	0.57
11:CK:99:GLN:HG2	11:CK:105:VAL:HG11	1.86	0.57
23:CW:57:U:H2'	23:CW:59:G:OP2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CY:11:C:C2’	22:CY:12:U:C6	2.82	0.57
33:D8:29:LYS:O	33:D8:29:LYS:HG3	2.03	0.57
33:D8:61:LEU:HD12	33:D8:62:LEU:H	1.70	0.57
35:DA:78:A:H2’	35:DA:79:G:H8	1.69	0.57
35:DA:221:A:H4’	35:DA:222:A:O5’	2.04	0.57
35:DA:1332:G:H21	35:DA:1610:A:H8	1.49	0.57
38:DD:65:ILE:HD11	38:DD:67:PHE:CE2	2.39	0.57
39:DE:101:ARG:HB3	39:DE:169:ASN:ND2	2.19	0.57
42:DH:156:ALA:O	42:DH:158:HIS:N	2.37	0.57
45:DN:54:VAL:HB	45:DN:122:VAL:HG22	1.85	0.57
50:DS:96:GLY:O	50:DS:98:VAL:N	2.31	0.57
51:DT:64:ARG:HD2	51:DT:73:GLU:HG2	1.84	0.57
54:DW:22:ASP:HA	54:DW:25:ARG:NH1	2.15	0.57
1:AA:229:U:O2’	1:AA:230:G:H5’	2.04	0.57
1:AA:447:G:H2’	1:AA:485:G:H22	1.64	0.57
1:AA:1239:A:H62	1:AA:1299:A:N6	2.02	0.57
1:AA:1321:C:H5’	1:AA:1322:C:C5’	2.34	0.57
2:AB:194:PRO:HG2	2:AB:195:ASP:OD1	2.04	0.57
4:AD:47:ARG:HE	4:AD:49:ARG:NH2	2.02	0.57
11:AK:98:LEU:O	11:AK:99:GLN:C	2.47	0.57
12:AL:47:LYS:C	12:AL:47:LYS:HD2	2.29	0.57
12:AL:76:ASN:OD1	12:AL:107:ALA:HA	2.04	0.57
22:AV:19:G:C2’	22:AV:59:G:N2	2.67	0.57
22:AV:23:A:O3’	22:AV:24:A:H8	1.87	0.57
22:AY:45:U:C4	22:AY:46:U:C4	2.91	0.57
22:AY:53:U:C2	22:AY:54:G:C8	2.92	0.57
35:BA:85:G:OP1	56:BY:9:LYS:HA	2.03	0.57
35:BA:548:A:C2	35:BA:549:G:H4’	2.39	0.57
35:BA:1039:G:H2’	35:BA:1040:C:C6	2.39	0.57
35:BA:1192:G:O2’	35:BA:1193:G:H5’	2.04	0.57
35:BA:1270:C:H5”	35:BA:1271:G:O5’	2.05	0.57
35:BA:2562:U:C1’	46:BO:23:ARG:HH11	2.13	0.57
35:BA:2722:G:H2’	35:BA:2723:C:C6	2.39	0.57
39:BE:75:VAL:O	39:BE:77:ILE:N	2.32	0.57
41:BG:85:GLY:O	41:BG:87:PRO:HD3	2.04	0.57
46:BO:3:GLN:HB2	46:BO:4:PRO:HD2	1.85	0.57
1:CA:1406:U:H2’	1:CA:1407:C:C6	2.38	0.57
1:CA:1514:C:O2’	1:CA:1515:C:H5’	2.04	0.57
2:CB:15:VAL:HG21	2:CB:209:ARG:NH2	2.15	0.57
2:CB:35:GLU:HG2	2:CB:35:GLU:O	2.04	0.57
2:CB:132:LYS:HA	2:CB:135:GLN:NE2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.19	0.57
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	1.85	0.57
4:CD:43:HIS:O	4:CD:45:GLN:N	2.32	0.57
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.67	0.57
9:CI:53:VAL:C	9:CI:54:ASP:HB2	2.29	0.57
13:CM:81:LEU:HB3	13:CM:88:ARG:HB2	1.87	0.57
15:CO:62:GLN:O	15:CO:66:LEU:HD13	2.03	0.57
22:CV:12:U:H3'	22:CV:13:U:H5"	1.84	0.57
23:CW:29:A:C6	23:CW:30:U:C4	2.92	0.57
23:CW:42:C:H2'	23:CW:43:G:H5'	1.87	0.57
35:DA:107:C:H2'	35:DA:108:U:H6	1.69	0.57
35:DA:155:U:C2'	35:DA:156:U:H5"	2.34	0.57
35:DA:942:G:OP1	47:DP:35:HIS:HB3	2.04	0.57
35:DA:1038:C:H3'	35:DA:1039:G:C5'	2.33	0.57
36:DB:87:G:C3'	36:DB:88:C:H5"	2.34	0.57
41:DG:77:ILE:O	41:DG:79:ASN:N	2.36	0.57
47:DP:64:LYS:C	47:DP:66:GLY:H	2.12	0.57
48:DQ:42:ILE:HD13	48:DQ:97:VAL:CG2	2.34	0.57
48:DQ:57:HIS:NE2	48:DQ:116:GLU:CG	2.67	0.57
52:DU:74:LEU:H	52:DU:74:LEU:CD1	2.17	0.57
54:DW:95:ILE:O	54:DW:95:ILE:HG13	2.02	0.57
56:DY:76:CYS:HB3	56:DY:96:ILE:CD1	2.32	0.57
1:AA:136:C:H5'	16:AP:1:MET:HE3	1.86	0.57
1:AA:577:G:O2'	1:AA:578:C:H5'	2.05	0.57
1:AA:874:G:H2'	1:AA:875:C:C6	2.38	0.57
1:AA:922:G:H4'	5:AE:20:GLN:HA	1.85	0.57
1:AA:1112:C:H1'	3:AC:179:ARG:HD3	1.86	0.57
1:AA:1296:C:H3'	1:AA:1297:C:C5	2.38	0.57
2:AB:24:TRP:CD1	2:AB:24:TRP:H	2.21	0.57
4:AD:11:LEU:C	4:AD:13:ARG:N	2.57	0.57
4:AD:126:ILE:HD12	4:AD:126:ILE:N	2.19	0.57
13:AM:86:CYS:HA	19:AS:73:GLU:O	2.04	0.57
23:AW:30:U:C2'	23:AW:31:C:H6	1.92	0.57
22:AY:11:C:C2	22:AY:12:U:C5	2.92	0.57
33:B8:59:LYS:HB2	33:B8:59:LYS:HZ2	1.65	0.57
35:BA:527:C:OP2	35:BA:2779:U:H5	1.87	0.57
35:BA:947:G:N2	35:BA:971:C:C2	2.72	0.57
35:BA:2875:C:O2'	51:BT:5:ALA:HB3	2.04	0.57
36:BB:7:G:H3'	36:BB:8:U:C5'	2.21	0.57
43:BI:83:ALA:CB	43:BI:88:ILE:HG23	2.35	0.57
45:BN:46:VAL:O	45:BN:47:ALA:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:2:ASN:O	51:BT:4:GLY:N	2.37	0.57
52:BU:25:TRP:C	52:BU:25:TRP:CD1	2.81	0.57
1:CA:456:C:H2'	1:CA:457:C:C6	2.39	0.57
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.87	0.57
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	2.03	0.57
13:CM:116:THR:HG22	13:CM:116:THR:O	2.04	0.57
19:CS:16:LEU:O	19:CS:20:LEU:N	2.23	0.57
22:CV:3:G:H2'	22:CV:4:C:C5'	2.35	0.57
22:CV:15:G:H2'	22:CV:16:U:H6	1.68	0.57
22:CV:53:U:H2'	22:CV:54:G:C8	2.38	0.57
30:D5:45:VAL:HG11	30:D5:55:ARG:HG2	1.87	0.57
35:DA:845:G:OP2	35:DA:845:G:H8	1.88	0.57
35:DA:1150:C:O2'	35:DA:1151:G:H5'	2.04	0.57
36:DB:65:C:N4	36:DB:109:C:H2'	2.19	0.57
38:DD:79:VAL:HG21	38:DD:111:LEU:CD1	2.34	0.57
39:DE:111:ARG:HA	49:DR:2:ARG:HG2	1.86	0.57
40:DF:18:ARG:HH21	40:DF:20:LEU:HD11	1.69	0.57
45:DN:15:LEU:O	45:DN:136:GLU:HA	2.04	0.57
46:DO:121:VAL:C	46:DO:122:LEU:HD23	2.28	0.57
52:DU:26:GLY:O	52:DU:30:LYS:HG2	2.05	0.57
2:AB:35:GLU:O	2:AB:35:GLU:HG2	2.05	0.57
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.85	0.57
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.34	0.57
11:AK:57:THR:HG23	11:AK:60:ALA:H	1.67	0.57
27:B2:2:LYS:HE2	27:B2:6:VAL:HG23	1.87	0.57
29:B4:2:LYS:O	29:B4:3:GLU:HB2	2.03	0.57
35:BA:960:A:H61	48:BQ:83:MET:HE2	1.69	0.57
35:BA:2132:U:H3	37:BC:6:LYS:CB	2.16	0.57
36:BB:56:G:H4'	36:BB:57:A:C8	2.40	0.57
38:BD:24:ILE:CG1	38:BD:25:THR:H	2.16	0.57
38:BD:117:VAL:HG21	38:BD:128:GLY:C	2.30	0.57
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.18	0.57
42:BH:153:LYS:HD3	42:BH:153:LYS:N	2.17	0.57
50:BS:56:LEU:O	50:BS:56:LEU:HD23	2.04	0.57
51:BT:6:LEU:HD23	51:BT:9:LEU:HB2	1.84	0.57
51:BT:106:SER:O	51:BT:107:ASP:CB	2.52	0.57
52:BU:46:ALA:O	52:BU:50:ARG:HB2	2.04	0.57
52:BU:101:ARG:HH11	52:BU:101:ARG:CB	2.18	0.57
53:BV:98:GLU:C	53:BV:99:ILE:HD13	2.30	0.57
1:CA:723:U:H5"	1:CA:724:G:OP2	2.03	0.57
1:CA:1511:G:O2'	1:CA:1512:U:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:102:LEU:H	2:CB:102:LEU:CD1	2.14	0.57
3:CC:40:ARG:HG2	3:CC:55:VAL:CG1	2.33	0.57
4:CD:160:GLN:O	4:CD:163:GLU:HB3	2.04	0.57
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.29	0.57
12:CL:40:VAL:HG21	12:CL:78:GLN:O	2.03	0.57
15:CO:54:ARG:HD3	15:CO:58:MET:CE	2.32	0.57
16:CP:2:VAL:CG2	16:CP:21:VAL:HG23	2.34	0.57
30:D5:3:LYS:HE2	35:DA:2613:U:H2'	1.85	0.57
35:DA:142:A:H1'	35:DA:1408:C:O4'	2.03	0.57
35:DA:830:G:H4'	35:DA:831:G:OP2	2.04	0.57
35:DA:2222:G:O2'	35:DA:2223:G:H5'	2.05	0.57
35:DA:2713:A:H3'	35:DA:2714:G:C5'	2.35	0.57
35:DA:2778:A:H4'	35:DA:2779:U:OP2	2.04	0.57
37:DC:11:LEU:HB3	37:DC:33:LEU:HD22	1.85	0.57
41:DG:120:LEU:HB2	41:DG:180:PHE:CE1	2.39	0.57
42:DH:88:LEU:HD12	42:DH:130:ARG:HG2	1.86	0.57
42:DH:148:ILE:O	42:DH:162:ILE:HD11	2.05	0.57
46:DO:10:VAL:HG21	46:DO:16:ALA:O	2.04	0.57
52:DU:74:LEU:H	52:DU:74:LEU:HD13	1.69	0.57
53:DV:98:GLU:C	53:DV:99:ILE:HD13	2.29	0.57
57:DZ:61:LEU:H	57:DZ:61:LEU:CD2	2.15	0.57
1:AA:373:A:H2'	1:AA:374:A:C8	2.31	0.57
1:AA:1367:C:H4'	10:AJ:48:THR:HG21	1.85	0.57
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.39	0.57
2:AB:102:LEU:H	2:AB:102:LEU:CD1	2.13	0.57
3:AC:39:ILE:O	3:AC:43:LEU:HG	2.05	0.57
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.62	0.57
8:AH:86:ILE:HB	8:AH:133:LEU:HD22	1.86	0.57
9:AI:5:TYR:HA	9:AI:17:VAL:O	2.04	0.57
13:AM:69:GLU:HA	13:AM:70:LEU:N	2.20	0.57
22:AV:8:U:H1'	22:AV:50:C:O2	2.04	0.57
22:AV:11:C:C6	22:AV:12:U:C5	2.92	0.57
22:AY:12:U:C4	22:AY:26:G:N1	2.70	0.57
22:AY:56:U:O2	57:BZ:183:LEU:HD23	2.04	0.57
29:B4:1:MET:CG	41:BG:98:ARG:HG3	2.35	0.57
29:B4:51:ASP:OD1	29:B4:52:THR:HG23	2.05	0.57
31:B6:11:LEU:HD11	31:B6:26:ASN:CB	2.31	0.57
35:BA:445:C:OP1	52:BU:2:PRO:HA	2.05	0.57
35:BA:544:G:N2	35:BA:547:A:H2'	2.20	0.57
35:BA:1652:A:H3'	35:BA:1653:G:C8	2.39	0.57
35:BA:1803:A:H4'	38:BD:259:THR:HG23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2158:A:H4'	35:BA:2159:G:C5'	2.33	0.57
35:BA:2811:G:C2'	35:BA:2812:G:H5'	2.35	0.57
39:BE:60:ASN:OD1	39:BE:61:ARG:N	2.37	0.57
41:BG:83:ARG:NH1	41:BG:84:LYS:HE3	2.19	0.57
44:BJ:32:UNK:O	44:BJ:33:UNK:CB	2.52	0.57
52:BU:95:LEU:CD1	53:BV:11:GLN:HE21	2.18	0.57
52:BU:101:ARG:O	52:BU:102:GLU:HG2	2.05	0.57
1:CA:153:C:H2'	1:CA:154:C:C6	2.39	0.57
1:CA:490:G:H2'	1:CA:491:G:H8	1.69	0.57
1:CA:648:A:H2'	1:CA:649:G:C8	2.39	0.57
1:CA:865:A:C2	1:CA:918:A:H4'	2.40	0.57
1:CA:881:G:OP2	12:CL:12:ARG:NH2	2.36	0.57
1:CA:1442(B):A:H2'	51:DT:118:ARG:HH12	1.68	0.57
2:CB:90:MET:HE2	2:CB:90:MET:HA	1.85	0.57
3:CC:95:THR:CG2	3:CC:97:LYS:HB2	2.34	0.57
4:CD:11:LEU:C	4:CD:13:ARG:N	2.58	0.57
9:CI:10:ARG:NH1	9:CI:105:ASP:HB2	2.20	0.57
10:CJ:80:LYS:NZ	10:CJ:80:LYS:HB3	2.20	0.57
19:CS:20:LEU:HA	19:CS:23:ASN:ND2	2.13	0.57
19:CS:66:MET:HE3	19:CS:74:PHE:CZ	2.39	0.57
22:CY:62:U:O2'	57:DZ:186:GLU:HB2	1.95	0.57
35:DA:90:U:H1'	35:DA:92:A:C8	2.39	0.57
35:DA:2177:C:H1'	37:DC:45:HIS:HB3	1.86	0.57
39:DE:46:ALA:CB	39:DE:82:ARG:HA	2.35	0.57
39:DE:60:ASN:OD1	39:DE:61:ARG:N	2.37	0.57
40:DF:20:LEU:HD12	40:DF:199:TRP:CZ3	2.40	0.57
53:DV:34:GLU:O	53:DV:36:PRO:HD2	2.04	0.57
53:DV:49:THR:HB	53:DV:50:PRO:HD2	1.86	0.57
57:DZ:81:ARG:HH11	57:DZ:81:ARG:CB	2.17	0.57
1:AA:348:G:O2'	1:AA:349:A:H5'	2.03	0.57
1:AA:1315:U:H2'	1:AA:1316:G:O4'	2.05	0.57
1:AA:1317:C:OP1	14:AN:17:LYS:HG2	2.05	0.57
2:AB:112:VAL:O	2:AB:116:GLU:HG2	2.04	0.57
4:AD:49:ARG:HA	4:AD:49:ARG:NE	2.19	0.57
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.29	0.57
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.05	0.57
8:AH:39:LEU:O	8:AH:45:ILE:HG12	2.05	0.57
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.29	0.57
12:AL:38:THR:CG2	12:AL:57:LYS:HB2	2.35	0.57
19:AS:62:ILE:CD1	19:AS:66:MET:HE2	2.30	0.57
22:AV:69:G:C6	22:AV:70:G:C5	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:20:G:OP1	23:AW:21:U:C5	2.58	0.57
27:B2:47:ASN:ND2	35:BA:94(A):G:N3	2.52	0.57
29:B4:5:ILE:O	41:BG:67:LYS:HD3	2.04	0.57
35:BA:1899:G:N2	35:BA:1902:C:C5	2.72	0.57
35:BA:1899:G:H22	35:BA:1902:C:H41	0.70	0.57
35:BA:2177:C:H1'	37:BC:45:HIS:HB3	1.86	0.57
37:BC:47:LYS:HB3	37:BC:212:SER:HB3	1.87	0.57
42:BH:97:ARG:HG2	42:BH:98:LEU:N	2.19	0.57
42:BH:154:PRO:HB3	42:BH:163:TYR:CZ	2.39	0.57
47:BP:85:LEU:H	47:BP:85:LEU:CD2	2.15	0.57
57:BZ:179:ASP:N	57:BZ:182:LYS:HE2	2.19	0.57
1:CA:638:G:O2'	1:CA:639:G:H5'	2.04	0.57
2:CB:51:LEU:HD23	2:CB:201:ILE:HD12	1.84	0.57
3:CC:95:THR:C	3:CC:97:LYS:H	2.13	0.57
8:CH:13:ILE:O	8:CH:17:THR:HG23	2.04	0.57
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	2.04	0.57
10:CJ:6:ILE:HD11	10:CJ:72:VAL:CB	2.33	0.57
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB3	1.85	0.57
12:CL:7:ILE:HD11	17:CQ:32:TYR:HB3	1.87	0.57
12:CL:60:LEU:HB2	12:CL:64:TYR:O	2.05	0.57
13:CM:65:LYS:HB3	29:D4:44:THR:HG21	1.86	0.57
19:CS:18:LYS:O	19:CS:22:LEU:HB2	2.05	0.57
23:CW:55:G:H2'	23:CW:56:U:C6	2.39	0.57
27:D2:48:HIS:C	27:D2:50:ILE:N	2.62	0.57
31:D6:11:LEU:HD11	31:D6:26:ASN:CB	2.30	0.57
33:D8:4:MET:CB	33:D8:61:LEU:HD22	2.34	0.57
33:D8:14:VAL:HG21	33:D8:22:VAL:HG13	1.86	0.57
33:D8:48:PHE:O	33:D8:49:VAL:CG1	2.49	0.57
35:DA:207:A:H2'	35:DA:208:C:O4'	2.04	0.57
35:DA:445:C:OP1	52:DU:2:PRO:HA	2.04	0.57
35:DA:674:G:H1'	40:DF:74:ARG:CD	2.33	0.57
35:DA:675:A:OP1	40:DF:63:LYS:HE2	2.05	0.57
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.40	0.57
35:DA:2656:U:H2'	35:DA:2657:A:H5"	1.86	0.57
35:DA:2803:C:H2'	35:DA:2804:C:C6	2.39	0.57
37:DC:190:ILE:O	37:DC:194:ILE:HG12	2.05	0.57
38:DD:35:LYS:C	38:DD:35:LYS:CD	2.77	0.57
41:DG:131:TYR:HE1	41:DG:133:LEU:HD23	1.69	0.57
41:DG:140:ILE:HD12	41:DG:141:PHE:N	2.19	0.57
43:DI:47:LEU:HD12	43:DI:50:ARG:NH2	2.19	0.57
46:DO:77:ILE:HD13	51:DT:74:ARG:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:65:LYS:HE3	51:DT:66:VAL:H	1.68	0.57
56:DY:2:ARG:NE	56:DY:3:VAL:HG23	2.20	0.57
56:DY:28:LYS:HG2	56:DY:39:VAL:CG2	2.34	0.57
57:DZ:110:GLY:HA2	57:DZ:146:ILE:HG23	1.87	0.57
1:AA:130:A:C8	17:AQ:63:ARG:HG3	2.39	0.57
1:AA:179:A:H2'	1:AA:180:U:H6	1.70	0.57
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.35	0.57
2:AB:140:HIS:C	2:AB:143:GLU:HG2	2.30	0.57
3:AC:167:TRP:O	3:AC:168:ALA:HB3	2.05	0.57
6:AF:3:ARG:HD3	6:AF:64:GLN:NE2	2.20	0.57
7:AG:44:TYR:O	7:AG:48:LYS:HG3	2.04	0.57
8:AH:109:ILE:HG22	8:AH:137:VAL:O	2.04	0.57
10:AJ:95:GLU:HG3	10:AJ:96:ILE:N	2.20	0.57
22:AV:13:U:C2	22:AV:25:A:N1	2.73	0.57
27:B2:7:ARG:CZ	35:BA:102:G:OP2	2.52	0.57
35:BA:27:G:H22	35:BA:512:G:H2'	1.69	0.57
35:BA:28:A:N6	35:BA:512:G:H1'	2.19	0.57
35:BA:2123:G:O2'	35:BA:2124:G:H5'	2.05	0.57
35:BA:2136:C:H2'	35:BA:2137:C:C6	2.39	0.57
38:BD:117:VAL:HG22	38:BD:118:VAL:N	2.20	0.57
41:BG:161:THR:CG2	41:BG:162:THR:N	2.68	0.57
43:BI:8:PRO:HB3	43:BI:14:ASP:H	1.69	0.57
47:BP:16:ARG:HD3	47:BP:18:ARG:N	2.15	0.57
47:BP:102:ARG:HH11	47:BP:102:ARG:HB2	1.69	0.57
1:CA:22:G:H2'	1:CA:23:C:C6	2.40	0.57
1:CA:180:U:C2'	1:CA:181:G:C5'	2.77	0.57
1:CA:539:A:H2'	1:CA:540:G:H8	1.69	0.57
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.20	0.57
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.37	0.57
2:CB:124:SER:OG	2:CB:125:PRO:HD2	2.05	0.57
4:CD:187:ARG:HH11	4:CD:187:ARG:HG2	1.68	0.57
8:CH:68:ARG:HH11	8:CH:68:ARG:HG2	1.70	0.57
12:CL:24:VAL:HG13	12:CL:98:TYR:HE2	1.70	0.57
15:CO:33:THR:CG2	15:CO:85:LEU:HD21	2.31	0.57
23:CW:28:G:C8	23:CW:28:G:OP2	2.58	0.57
22:CY:45:U:C4	22:CY:46:U:C4	2.93	0.57
26:D1:45:ASN:ND2	26:D1:45:ASN:O	2.38	0.57
27:D2:48:HIS:C	27:D2:50:ILE:H	2.11	0.57
35:DA:171:G:H2'	35:DA:172:C:O4'	2.04	0.57
35:DA:225:A:H2'	35:DA:226:G:H5'	1.86	0.57
35:DA:708:C:H42	35:DA:723:G:H1	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:898:C:H2'	35:DA:899:A:H5'	1.86	0.57
35:DA:1358:G:O2'	35:DA:1359:A:H5"	2.03	0.57
35:DA:1486:A:N6	35:DA:1504:C:H42	2.02	0.57
35:DA:2132:U:H3	37:DC:6:LYS:CB	2.17	0.57
35:DA:2263:C:O2'	35:DA:2264:C:H5'	2.05	0.57
35:DA:2491:U:O2'	35:DA:2492:U:H5'	2.04	0.57
38:DD:210:GLY:O	38:DD:211:ARG:HB3	2.04	0.57
38:DD:261:LYS:NZ	38:DD:263:ARG:NH2	2.51	0.57
45:DN:48:MET:HE3	45:DN:48:MET:N	2.20	0.57
47:DP:71:VAL:HG13	47:DP:72:PRO:HD3	1.86	0.57
52:DU:102:GLU:HG3	53:DV:2:PHE:CE1	2.39	0.57
54:DW:37:ARG:NH1	54:DW:38:TYR:CZ	2.72	0.57
55:DX:3:THR:O	55:DX:4:ALA:HB3	2.05	0.57
56:DY:7:VAL:HB	56:DY:8:LYS:HD2	1.87	0.57
57:DZ:108:PRO:C	57:DZ:110:GLY:N	2.62	0.57
57:DZ:127:LYS:HB3	57:DZ:127:LYS:NZ	2.20	0.57
57:DZ:165:VAL:CG1	57:DZ:166:SER:H	2.14	0.57
1:AA:376:G:OP1	16:AP:6:LEU:HB2	2.04	0.57
1:AA:959:A:C2'	1:AA:960:U:H4'	2.35	0.57
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.69	0.57
1:AA:1129:C:H5"	1:AA:1139:G:O6	2.04	0.57
1:AA:1321:C:H3'	1:AA:1322:C:H5"	1.87	0.57
1:AA:1498:U:H1'	1:AA:1499:A:N7	2.20	0.57
2:AB:90:MET:HE2	2:AB:90:MET:HA	1.85	0.57
22:AV:53:U:H2'	22:AV:54:G:C8	2.40	0.57
23:AW:40:A:H2'	23:AW:41:C:H5	1.62	0.57
25:B0:84:LEU:HD12	25:B0:84:LEU:N	2.19	0.57
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.19	0.57
35:BA:1216:G:N2	35:BA:1234:U:H1'	2.19	0.57
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.39	0.57
42:BH:11:VAL:CG2	42:BH:50:VAL:HG23	2.34	0.57
45:BN:3:THR:O	45:BN:4:TYR:CD1	2.58	0.57
47:BP:59:LEU:O	47:BP:59:LEU:HD23	2.05	0.57
47:BP:71:VAL:HG12	47:BP:72:PRO:HD3	1.85	0.57
48:BQ:10:ARG:CB	48:BQ:10:ARG:NH1	2.68	0.57
51:BT:54:ARG:HG2	51:BT:54:ARG:NH1	2.19	0.57
52:BU:88:ILE:C	52:BU:90:VAL:N	2.63	0.57
52:BU:92:ARG:O	52:BU:93:LYS:C	2.48	0.57
53:BV:34:GLU:O	53:BV:36:PRO:HD2	2.04	0.57
56:BY:36:ALA:HA	56:BY:69:ALA:N	2.20	0.57
1:CA:90:U:H4'	1:CA:91:C:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:584:G:H2'	1:CA:585:G:C8	2.40	0.57
1:CA:1091:U:H2'	1:CA:1093:A:OP2	2.04	0.57
2:CB:102:LEU:HD23	2:CB:182:ILE:HD12	1.87	0.57
5:CE:10:MET:HA	5:CE:32:VAL:HG22	1.87	0.57
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.04	0.57
6:CF:76:ALA:HB1	6:CF:80:ARG:NH2	2.19	0.57
12:CL:7:ILE:HG23	12:CL:8:ASN:N	2.20	0.57
20:CT:84:LEU:O	20:CT:88:VAL:HG23	2.05	0.57
22:CV:53:U:H2'	22:CV:54:G:H8	1.70	0.57
26:D1:64:ALA:HA	26:D1:67:ILE:HD11	1.87	0.57
30:D5:51:TYR:CZ	30:D5:52:TYR:HB2	2.40	0.57
35:DA:27:G:H22	35:DA:512:G:C2'	2.17	0.57
35:DA:271(H):G:O2'	35:DA:271(I):G:H8	1.87	0.57
35:DA:548:A:C2	35:DA:549:G:H4'	2.39	0.57
35:DA:1181:C:O2'	35:DA:1182:A:H5'	2.05	0.57
35:DA:1221:C:H2'	35:DA:1221(A):C:H6	1.68	0.57
35:DA:1568:G:H21	38:DD:58:HIS:HE1	1.52	0.57
35:DA:1720:U:H2'	35:DA:1721:G:O4'	2.05	0.57
35:DA:1816:G:H8	38:DD:62:TYR:CZ	2.22	0.57
35:DA:2123:G:O2'	35:DA:2124:G:H5'	2.04	0.57
35:DA:2892:A:C8	35:DA:2893:G:H1'	2.40	0.57
38:DD:31:LYS:C	38:DD:33:LEU:H	2.13	0.57
38:DD:35:LYS:HB3	38:DD:35:LYS:NZ	2.19	0.57
38:DD:148:GLU:HB2	38:DD:151:LYS:HD2	1.86	0.57
40:DF:46:ARG:HG3	40:DF:46:ARG:HH11	1.70	0.57
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.20	0.57
41:DG:47:LYS:HE3	41:DG:81:LYS:HD2	1.86	0.57
43:DI:115:ALA:CB	43:DI:128:LEU:HB3	2.34	0.57
43:DI:140:LEU:HD23	43:DI:140:LEU:C	2.30	0.57
49:DR:9:LYS:O	49:DR:10:LEU:HD23	2.04	0.57
57:DZ:23:LYS:HA	57:DZ:40:ASP:HA	1.85	0.57
1:AA:153:C:H2'	1:AA:154:C:C6	2.40	0.57
1:AA:267:C:OP2	17:AQ:67:LYS:HD2	2.05	0.57
1:AA:445:G:O2'	1:AA:446:G:H5'	2.05	0.57
1:AA:824:C:H2'	1:AA:825:G:C8	2.40	0.57
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.04	0.57
11:AK:115:PRO:C	11:AK:117:ASN:H	2.13	0.57
12:AL:25:PRO:HD2	12:AL:98:TYR:OH	2.04	0.57
12:AL:39:VAL:HB	12:AL:57:LYS:HZ2	1.69	0.57
22:AV:3:G:N2	22:AV:4:C:C2	2.72	0.57
23:AW:26:G:C5	23:AW:27:C:C4	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:20:ARG:HG2	26:B1:20:ARG:NH1	2.14	0.57
33:B8:48:PHE:O	33:B8:49:VAL:CG1	2.49	0.57
35:BA:996:A:H4'	52:BU:92:ARG:HE	1.69	0.57
35:BA:1174:A:OP1	35:BA:1175:U:H5"	2.04	0.57
35:BA:1970:A:H5"	35:BA:1971:A:OP1	2.05	0.57
35:BA:2192:G:C2'	35:BA:2193:G:H5"	2.33	0.57
37:BC:215:VAL:HG23	37:BC:225:ILE:HD11	1.86	0.57
38:BD:35:LYS:HB3	38:BD:35:LYS:NZ	2.18	0.57
43:BI:81:VAL:N	43:BI:143:SER:HB2	2.19	0.57
49:BR:2:ARG:HD3	49:BR:5:LYS:CE	2.33	0.57
50:BS:36:TYR:CD1	50:BS:36:TYR:N	2.72	0.57
51:BT:117:ASP:O	51:BT:118:ARG:C	2.48	0.57
54:BW:4:LYS:HG2	54:BW:5:ALA:N	2.18	0.57
57:BZ:53:ILE:HG22	57:BZ:71:VAL:HB	1.86	0.57
57:BZ:128:VAL:HG22	57:BZ:132:ASN:HB2	1.84	0.57
1:CA:136:C:H5'	16:CP:1:MET:HE3	1.87	0.57
1:CA:708:C:H2'	1:CA:709:G:C8	2.39	0.57
1:CA:716:A:N3	11:CK:118:GLY:HA2	2.19	0.57
1:CA:952:U:H2'	1:CA:953:G:H8	1.69	0.57
1:CA:1239:A:H62	1:CA:1299:A:N6	2.02	0.57
1:CA:1321:C:H5'	1:CA:1322:C:C5'	2.35	0.57
1:CA:1329:A:N7	21:CU:7:ARG:NH2	2.53	0.57
2:CB:41:ILE:HD12	2:CB:41:ILE:N	2.19	0.57
3:CC:14:ILE:HG23	3:CC:15:THR:N	2.20	0.57
5:CE:81:GLU:HG2	5:CE:90:VAL:HG22	1.87	0.57
9:CI:21:PRO:HA	9:CI:58:HIS:O	2.05	0.57
9:CI:27:THR:HG23	9:CI:31:GLN:O	2.04	0.57
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.19	0.57
12:CL:126:LYS:HE2	12:CL:126:LYS:HA	1.87	0.57
16:CP:12:LYS:O	16:CP:13:HIS:HB2	2.04	0.57
22:CY:28:G:C2	22:CY:29:A:C5	2.93	0.57
26:D1:88:LYS:CD	26:D1:89:GLU:HG3	2.34	0.57
29:D4:43:TYR:HD2	29:D4:44:THR:HG23	1.69	0.57
35:DA:855:G:H2'	35:DA:856:C:C6	2.40	0.57
35:DA:2271:G:H2'	35:DA:2272:U:C6	2.40	0.57
40:DF:148:LEU:HD21	40:DF:191:ARG:HH11	1.69	0.57
43:DI:109:ILE:CG2	43:DI:114:LEU:HD11	2.34	0.57
46:DO:2:ILE:HD11	46:DO:82:ASN:ND2	2.08	0.57
47:DP:16:ARG:HB2	47:DP:16:ARG:HH11	1.68	0.57
50:DS:93:LYS:HG3	50:DS:93:LYS:O	2.04	0.57
51:DT:2:ASN:O	51:DT:4:GLY:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:12:SER:O	51:DT:13:ARG:NE	2.38	0.57
51:DT:38:ASN:ND2	51:DT:40:THR:OG1	2.37	0.57
52:DU:74:LEU:HD21	52:DU:79:PHE:HB2	1.87	0.57
57:DZ:5:LEU:HD13	57:DZ:47:VAL:HG21	1.87	0.57
1:AA:90:U:H4'	1:AA:91:C:C6	2.39	0.57
1:AA:366:C:O2'	1:AA:394:G:N2	2.37	0.57
1:AA:539:A:H2'	1:AA:540:G:H8	1.70	0.57
1:AA:723:U:H5"	1:AA:724:G:OP2	2.04	0.57
1:AA:1051:C:H2'	1:AA:1052:U:H6	1.69	0.57
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.38	0.57
8:AH:8:ASP:O	8:AH:11:THR:N	2.38	0.57
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB3	1.85	0.57
10:AJ:80:LYS:HB3	10:AJ:80:LYS:NZ	2.19	0.57
18:AR:36:ASN:HB3	18:AR:39:VAL:HG21	1.86	0.57
35:BA:157:U:H5'	35:BA:158:U:OP2	2.05	0.57
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.33	0.57
35:BA:2747:G:O6	35:BA:2755:C:H5"	2.05	0.57
41:BG:16:ARG:O	41:BG:20:ILE:HG13	2.04	0.57
42:BH:20:ALA:HB3	42:BH:23:ARG:HB2	1.87	0.57
43:BI:101:LEU:O	43:BI:107:VAL:HB	2.05	0.57
44:BJ:23:UNK:HA	44:BJ:117:UNK:O	2.05	0.57
46:BO:113:LYS:O	46:BO:117:LEU:HD12	2.05	0.57
47:BP:88:LEU:HD12	47:BP:88:LEU:N	2.20	0.57
48:BQ:21:THR:HG21	48:BQ:101:ARG:HB2	1.85	0.57
1:CA:130:A:C8	17:CQ:63:ARG:HG3	2.40	0.57
2:CB:98:LEU:O	2:CB:101:MET:HG2	2.04	0.57
4:CD:13:ARG:O	4:CD:15:GLU:N	2.38	0.57
4:CD:23:GLY:O	4:CD:27:TYR:CD1	2.57	0.57
4:CD:79:PHE:HE2	4:CD:207:TYR:HB2	1.70	0.57
7:CG:62:PHE:CD1	7:CG:124:LEU:HD21	2.40	0.57
19:CS:44:MET:HB3	19:CS:62:ILE:HG12	1.86	0.57
20:CT:104:LEU:HD23	20:CT:105:SER:N	2.19	0.57
26:D1:44:PRO:HB2	26:D1:46:LEU:HD12	1.86	0.57
35:DA:523:C:H2'	35:DA:524:U:H5'	1.87	0.57
35:DA:1210:A:H5"	35:DA:1212:G:O4'	2.05	0.57
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.20	0.57
36:DB:111:G:C2'	36:DB:112:U:H5'	2.35	0.57
37:DC:26:ALA:CB	37:DC:225:ILE:HG21	2.34	0.57
41:DG:121:ASN:CG	41:DG:122:PRO:HD2	2.30	0.57
43:DI:8:PRO:HB3	43:DI:14:ASP:H	1.69	0.57
45:DN:2:LYS:HZ1	53:DV:12:TYR:HA	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:2:PHE:CB	53:DV:42:GLY:HA2	2.34	0.57
53:DV:5:VAL:HG23	53:DV:37:VAL:O	2.05	0.57
56:DY:4:LYS:HG3	56:DY:5:MET:H	1.69	0.57
57:DZ:116:VAL:O	57:DZ:118:GLN:N	2.38	0.57
1:AA:91:C:H2'	1:AA:91:C:O2	2.05	0.56
1:AA:123:C:OP1	1:AA:312:C:H5'	2.05	0.56
1:AA:1072:G:H21	2:AB:107:THR:HG21	1.70	0.56
9:AI:93:ARG:HG3	9:AI:97:LYS:HB2	1.87	0.56
10:AJ:33:GLN:H	10:AJ:75:ILE:HD11	1.70	0.56
11:AK:33:THR:C	11:AK:40:ILE:HD11	2.30	0.56
22:AV:7:U:H3'	22:AV:8:U:H5'	1.87	0.56
23:AW:19:G:C6	23:AW:59:G:C6	2.93	0.56
23:AW:35:U:N3	23:AW:37:A:H5"	2.20	0.56
22:AY:19:G:OP2	57:BZ:187:ALA:N	2.38	0.56
22:AY:35:U:H5'	22:AY:36:AG9:OP2	2.04	0.56
22:AY:57:U:O2	22:AY:59:G:C5	2.58	0.56
35:BA:142:A:H8	35:BA:1595:G:H21	1.51	0.56
35:BA:304:G:H2'	35:BA:305:U:H6	1.69	0.56
35:BA:915:C:O2'	35:BA:916:G:H5'	2.05	0.56
35:BA:1210:A:H5"	35:BA:1212:G:O4'	2.05	0.56
35:BA:2062:A:HO2'	35:BA:2063:C:P	2.27	0.56
35:BA:2287:A:N6	35:BA:2344:U:H3	2.01	0.56
40:BF:20:LEU:HD12	40:BF:199:TRP:HZ3	1.70	0.56
40:BF:84:VAL:HG12	40:BF:85:GLY:N	2.18	0.56
51:BT:31:SER:C	51:BT:32:TYR:CD2	2.82	0.56
56:BY:7:VAL:CG2	56:BY:8:LYS:HZ3	2.18	0.56
56:BY:76:CYS:HB3	56:BY:96:ILE:CD1	2.32	0.56
1:CA:227:G:H2'	1:CA:228:A:C8	2.40	0.56
1:CA:267:C:OP2	17:CQ:67:LYS:HD2	2.05	0.56
1:CA:1112:C:H1'	3:CC:179:ARG:HD3	1.85	0.56
1:CA:1340:A:O2'	22:CV:34:C:H5'	2.05	0.56
2:CB:67:THR:CG2	2:CB:155:LEU:HD21	2.35	0.56
3:CC:40:ARG:HG2	3:CC:55:VAL:HG11	1.85	0.56
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.19	0.56
12:CL:43:VAL:HG23	12:CL:44:THR:N	2.20	0.56
14:CN:24:CYS:SG	14:CN:27:CYS:SG	3.03	0.56
19:CS:11:VAL:HG22	19:CS:16:LEU:HD11	1.86	0.56
23:CW:20:G:H5'	23:CW:21:U:H5"	1.88	0.56
23:CW:73:C:H3'	23:CW:74:C:H5"	1.84	0.56
22:CY:63:C:H2'	22:CY:64:C:C6	2.40	0.56
32:D7:8:ASN:ND2	32:D7:11:LYS:H	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:492:A:H2'	35:DA:493:G:O4'	2.05	0.56
35:DA:972:G:OP2	35:DA:974:G:H5"	2.04	0.56
35:DA:2106:G:H2'	35:DA:2107:C:O4'	2.05	0.56
35:DA:2777:G:H5"	35:DA:2778:A:H5'	1.87	0.56
39:DE:51:PHE:N	39:DE:74:PRO:HG2	2.20	0.56
39:DE:81:ILE:HG22	39:DE:81:ILE:O	2.05	0.56
41:DG:57:ALA:CB	41:DG:90:LEU:HD21	2.35	0.56
41:DG:91:ARG:HD2	41:DG:92:VAL:N	2.20	0.56
43:DI:38:LEU:HB3	43:DI:40:THR:HG23	1.87	0.56
47:DP:6:LEU:H	47:DP:6:LEU:CD2	2.17	0.56
47:DP:85:LEU:HD12	47:DP:120:ALA:HA	1.85	0.56
48:DQ:10:ARG:CB	48:DQ:10:ARG:NH1	2.68	0.56
56:DY:88:LYS:HE2	56:DY:93:GLY:HA3	1.87	0.56
1:AA:167:G:H2'	1:AA:168:G:H8	1.69	0.56
1:AA:554:C:H2'	1:AA:555:C:H6	1.69	0.56
1:AA:821:G:H2'	1:AA:822:C:H6	1.69	0.56
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.40	0.56
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.41	0.56
2:AB:116:GLU:HA	2:AB:119:GLU:CB	2.35	0.56
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	2.05	0.56
6:AF:6:VAL:HG13	6:AF:90:VAL:HG22	1.85	0.56
7:AG:15:ASP:OD1	7:AG:16:LEU:N	2.37	0.56
9:AI:33:PHE:CE1	9:AI:37:PHE:HD2	2.23	0.56
9:AI:127:LYS:HG2	9:AI:127:LYS:O	2.04	0.56
11:AK:32:ILE:O	11:AK:40:ILE:HG12	2.05	0.56
12:AL:90:VAL:HG22	12:AL:99:HIS:HE2	1.70	0.56
22:AV:14:A:N6	22:AV:15:G:C2	2.73	0.56
23:AW:76:C:H4'	26:B1:23:LYS:HB2	1.87	0.56
22:AY:25:A:C2	22:AY:26:G:C5	2.93	0.56
22:AY:58:C:H2'	22:AY:59:G:H8	1.71	0.56
29:B4:12:ALA:CB	29:B4:29:PRO:HA	2.29	0.56
31:B6:48:VAL:O	31:B6:49:HIS:CB	2.53	0.56
35:BA:271(H):G:O2'	35:BA:271(I):G:H8	1.87	0.56
35:BA:1038:C:H3'	35:BA:1039:G:C5'	2.35	0.56
35:BA:1720:U:H2'	35:BA:1721:G:O4'	2.06	0.56
35:BA:1775:U:H2'	35:BA:1776:G:H5'	1.87	0.56
35:BA:2753:A:O2'	35:BA:2754:U:H5'	2.05	0.56
35:BA:2892:A:C8	35:BA:2893:G:H1'	2.39	0.56
39:BE:9:VAL:HG13	39:BE:25:VAL:O	2.05	0.56
46:BO:43:VAL:HG23	46:BO:56:ASP:O	2.05	0.56
47:BP:85:LEU:HD12	47:BP:120:ALA:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:61:GLY:O	57:BZ:177:PRO:HB2	2.06	0.56
51:BT:34:VAL:O	51:BT:35:LYS:CB	2.53	0.56
52:BU:112:ARG:CZ	53:BV:46:VAL:HG11	2.34	0.56
1:CA:1522:U:O2'	1:CA:1523:G:H5'	2.06	0.56
3:CC:7:PRO:O	3:CC:11:ARG:HG2	2.04	0.56
7:CG:92:SER:O	7:CG:96:GLN:HG3	2.05	0.56
8:CH:50:ARG:HA	8:CH:59:LEU:HD23	1.87	0.56
8:CH:112:LEU:HD23	8:CH:112:LEU:N	2.20	0.56
9:CI:84:ALA:O	9:CI:87:GLN:HB3	2.05	0.56
11:CK:98:LEU:O	11:CK:99:GLN:C	2.48	0.56
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.34	0.56
22:CV:23:A:N3	22:CV:23:A:H2'	2.20	0.56
22:CV:57:U:O2'	22:CV:59:G:N7	2.37	0.56
23:CW:14:A:C2	23:CW:24:A:C4	2.93	0.56
23:CW:35:U:N3	23:CW:37:A:H5"	2.20	0.56
22:CY:60:A:H2	57:DZ:186:GLU:CB	2.10	0.56
30:D5:51:TYR:N	30:D5:55:ARG:HD3	2.20	0.56
33:D8:13:ARG:O	33:D8:13:ARG:HG3	2.03	0.56
36:DB:6:C:O2'	50:DS:29:PHE:CE2	2.46	0.56
37:DC:215:VAL:HG23	37:DC:225:ILE:HD11	1.87	0.56
38:DD:117:VAL:HG22	38:DD:118:VAL:N	2.18	0.56
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.87	0.56
56:DY:47:LYS:O	56:DY:48:ALA:HB3	2.05	0.56
57:DZ:108:PRO:C	57:DZ:110:GLY:H	2.11	0.56
1:AA:291:C:O2'	1:AA:292:G:H5'	2.06	0.56
1:AA:376:G:H2'	1:AA:377:G:C8	2.39	0.56
1:AA:1007:C:H2'	1:AA:1008:C:H6	1.70	0.56
1:AA:1392:G:N2	1:AA:1502:A:C8	2.71	0.56
1:AA:1392:G:H21	1:AA:1502:A:H8	1.51	0.56
1:AA:1393:U:H5'	1:AA:1502:A:OP1	2.06	0.56
2:AB:96:ARG:N	2:AB:96:ARG:HD2	2.21	0.56
3:AC:79:ARG:HG3	3:AC:79:ARG:HH11	1.71	0.56
7:AG:47:CYS:O	7:AG:50:ILE:HB	2.05	0.56
7:AG:64:GLN:HG3	7:AG:68:ASN:ND2	2.20	0.56
8:AH:122:ARG:HB2	8:AH:122:ARG:CZ	2.35	0.56
9:AI:53:VAL:C	9:AI:54:ASP:HB2	2.30	0.56
9:AI:53:VAL:HB	9:AI:92:TYR:HE2	1.70	0.56
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.87	0.56
10:AJ:8:LEU:HB3	10:AJ:16:LEU:HD21	1.87	0.56
11:AK:99:GLN:HG2	11:AK:105:VAL:HG11	1.87	0.56
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:56:LEU:O	15:AO:60:VAL:HG23	2.05	0.56
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.71	0.56
20:AT:33:ILE:HG22	20:AT:37:SER:OG	2.05	0.56
20:AT:58:LYS:O	20:AT:61:SER:HB3	2.04	0.56
22:AV:70:G:C2	22:AV:71:G:C8	2.93	0.56
23:AW:15:G:H2'	23:AW:61:A:N1	2.21	0.56
30:B5:3:LYS:HZ2	30:B5:5:PRO:C	2.10	0.56
30:B5:51:TYR:CZ	30:B5:52:TYR:HB2	2.40	0.56
32:B7:19:ARG:HH11	32:B7:19:ARG:HG2	1.70	0.56
35:BA:631:A:OP1	47:BP:64:LYS:HE2	2.04	0.56
35:BA:665:C:H2'	35:BA:666:G:H8	1.69	0.56
35:BA:910:A:H62	48:BQ:12:GLN:HA	1.68	0.56
35:BA:924:C:O2'	35:BA:925:C:H5'	2.06	0.56
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.40	0.56
35:BA:2106:G:H2'	35:BA:2107:C:O4'	2.05	0.56
35:BA:2464:C:HO2'	35:BA:2465:C:H6	1.51	0.56
36:BB:40:U:O2	36:BB:43:C:H5"	2.05	0.56
36:BB:111:G:C2'	36:BB:112:U:H5'	2.35	0.56
36:BB:111:G:O2'	36:BB:112:U:H5'	2.06	0.56
39:BE:179:GLU:O	39:BE:180:ASN:HB2	2.06	0.56
40:BF:34:TRP:CZ2	47:BP:12:ALA:HB2	2.40	0.56
40:BF:101:LEU:O	40:BF:106:ARG:NH1	2.39	0.56
41:BG:85:GLY:O	41:BG:86:MET:CB	2.54	0.56
43:BI:35:LEU:O	43:BI:36:ALA:HB2	2.05	0.56
44:BJ:80:UNK:O	44:BJ:82:UNK:N	2.38	0.56
45:BN:1:MET:C	45:BN:2:LYS:HG3	2.28	0.56
45:BN:120:LEU:HD23	45:BN:121:LYS:N	2.20	0.56
46:BO:88:ASN:ND2	46:BO:90:GLN:H	2.02	0.56
47:BP:16:ARG:C	47:BP:16:ARG:HH11	2.12	0.56
47:BP:64:LYS:C	47:BP:66:GLY:N	2.63	0.56
50:BS:31:SER:O	50:BS:33:LYS:N	2.37	0.56
52:BU:26:GLY:O	52:BU:30:LYS:HG2	2.05	0.56
56:BY:51:VAL:HG12	56:BY:53:PRO:CD	2.32	0.56
57:BZ:80:ARG:HH11	57:BZ:80:ARG:CA	2.16	0.56
1:CA:148:G:H2'	1:CA:149:A:C8	2.40	0.56
1:CA:336:C:H2'	1:CA:337:C:H6	1.70	0.56
1:CA:612:C:O2'	1:CA:613:C:H5'	2.05	0.56
1:CA:1007:C:H2'	1:CA:1008:C:H6	1.69	0.56
1:CA:1128:C:H5'	9:CI:16:ARG:HH12	1.69	0.56
2:CB:178:ARG:HH21	8:CH:68:ARG:NH2	2.01	0.56
3:CC:90:GLU:HA	3:CC:93:LYS:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:150:LYS:HG3	3:CC:169:ALA:CB	2.35	0.56
4:CD:23:GLY:O	4:CD:27:TYR:HD1	1.88	0.56
4:CD:26:CYS:CA	4:CD:31:CYS:HB2	2.35	0.56
4:CD:47:ARG:HE	4:CD:49:ARG:NH2	2.03	0.56
4:CD:114:ARG:O	4:CD:117:ALA:HB3	2.05	0.56
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.60	0.56
8:CH:122:ARG:HB2	8:CH:122:ARG:CZ	2.35	0.56
9:CI:100:GLY:C	9:CI:102:LEU:H	2.13	0.56
9:CI:112:LYS:HE3	9:CI:116:LYS:O	2.05	0.56
11:CK:13:GLN:NE2	11:CK:75:TYR:HA	2.21	0.56
11:CK:115:PRO:C	11:CK:117:ASN:H	2.14	0.56
11:CK:124:LYS:NZ	11:CK:125:PHE:HE1	2.03	0.56
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.86	0.56
22:CV:5:C:C6	22:CV:6:C:H5	2.23	0.56
22:CV:15:G:C8	22:CV:16:U:H5	2.23	0.56
22:CY:70:G:H2'	22:CY:71:G:H8	1.69	0.56
26:D1:88:LYS:HD3	26:D1:89:GLU:HG3	1.87	0.56
27:D2:48:HIS:HA	27:D2:51:ARG:HG2	1.86	0.56
29:D4:15:ILE:N	29:D4:31:ILE:O	2.37	0.56
29:D4:51:ASP:OD1	29:D4:52:THR:HG23	2.06	0.56
33:D8:59:LYS:HB2	33:D8:59:LYS:HZ3	1.68	0.56
35:DA:27:G:H22	35:DA:512:G:H2'	1.69	0.56
35:DA:28:A:N6	35:DA:512:G:H1'	2.20	0.56
35:DA:324:A:N6	35:DA:338:G:O2'	2.38	0.56
35:DA:481:G:H1'	35:DA:506:G:N2	2.21	0.56
35:DA:621:A:H2'	35:DA:622:G:C5'	2.35	0.56
35:DA:1210:A:H8	35:DA:1210:A:H5'	1.69	0.56
35:DA:1510:G:H2'	35:DA:1511:C:C6	2.40	0.56
35:DA:1652:A:O2'	35:DA:1653:G:H5'	2.06	0.56
35:DA:1899:G:N2	35:DA:1902:C:C5	2.73	0.56
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.06	0.56
35:DA:2346:A:H5'	35:DA:2383:G:H1'	1.88	0.56
35:DA:2811:G:C2'	35:DA:2812:G:H5'	2.35	0.56
38:DD:161:THR:O	38:DD:162:SER:HB3	2.05	0.56
39:DE:21:VAL:HG23	39:DE:23:VAL:HG13	1.85	0.56
39:DE:44:TYR:O	39:DE:45:THR:HB	2.03	0.56
39:DE:68:ALA:C	39:DE:70:ALA:H	2.14	0.56
40:DF:125:LEU:HD23	40:DF:125:LEU:H	1.69	0.56
41:DG:160:VAL:HG12	41:DG:161:THR:N	2.20	0.56
43:DI:91:SER:O	43:DI:92:VAL:HG23	2.04	0.56
47:DP:16:ARG:C	47:DP:16:ARG:HH11	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:30:GLY:HA2	48:DQ:107:ALA:HB2	1.87	0.56
51:DT:51:ARG:HG2	51:DT:52:ILE:N	2.20	0.56
51:DT:91:ARG:O	51:DT:117:ASP:HB2	2.05	0.56
51:DT:106:SER:O	51:DT:107:ASP:CB	2.53	0.56
52:DU:112:ARG:CZ	53:DV:46:VAL:HG11	2.35	0.56
56:DY:2:ARG:CD	56:DY:3:VAL:HG23	2.35	0.56
1:AA:370:C:O2'	1:AA:371:G:H5'	2.05	0.56
1:AA:1452:C:O4'	1:AA:1456:G:N2	2.38	0.56
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.06	0.56
2:AB:140:HIS:O	2:AB:143:GLU:HG2	2.05	0.56
3:AC:95:THR:C	3:AC:97:LYS:H	2.13	0.56
6:AF:37:VAL:CG1	6:AF:38:GLU:H	2.18	0.56
9:AI:100:GLY:C	9:AI:102:LEU:H	2.13	0.56
12:AL:33:ARG:HD3	12:AL:62:SER:HB3	1.87	0.56
22:AV:3:G:C6	22:AV:4:C:C4	2.93	0.56
22:AV:15:G:H2'	22:AV:16:U:C5	2.40	0.56
22:AV:36:AG9:C2'	22:AV:37:A:H5'	2.35	0.56
23:AW:29:A:H2'	23:AW:30:U:H6	1.70	0.56
23:AW:40:A:C2	23:AW:41:C:C3'	2.74	0.56
22:AY:27:C:C2	22:AY:28:G:C8	2.93	0.56
22:AY:29:A:C2'	22:AY:30:U:H5'	2.35	0.56
25:B0:56:ASP:O	25:B0:57:PHE:HB2	2.03	0.56
30:B5:16:ARG:HH11	30:B5:16:ARG:HG2	1.70	0.56
34:B9:7:VAL:HG12	34:B9:25:VAL:CG2	2.35	0.56
35:BA:90:U:H1'	35:BA:92:A:C8	2.40	0.56
35:BA:155:U:C2'	35:BA:156:U:H5"	2.35	0.56
35:BA:708:C:H42	35:BA:723:G:H1	1.52	0.56
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.05	0.56
38:BD:26:LYS:O	38:BD:27:THR:HB	2.05	0.56
41:BG:27:ASN:C	41:BG:29:TRP:N	2.61	0.56
41:BG:125:PHE:O	41:BG:126:ASP:O	2.23	0.56
42:BH:19:VAL:CG2	42:BH:44:VAL:HA	2.27	0.56
45:BN:17:ASP:HB2	45:BN:55:VAL:HG12	1.88	0.56
47:BP:71:VAL:HG13	47:BP:72:PRO:CD	2.36	0.56
49:BR:113:LEU:HD23	49:BR:113:LEU:C	2.29	0.56
53:BV:59:ALA:HB2	53:BV:96:ILE:HD13	1.88	0.56
56:BY:2:ARG:NE	56:BY:3:VAL:HG23	2.21	0.56
56:BY:4:LYS:HG3	56:BY:5:MET:H	1.71	0.56
1:CA:824:C:H2'	1:CA:825:G:C8	2.39	0.56
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.70	0.56
1:CA:972:C:OP2	10:CJ:57:LYS:HE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1261:A:H61	1:CA:1274:G:H1'	1.69	0.56
1:CA:1296:C:H3'	1:CA:1297:C:C5	2.39	0.56
13:CM:7:VAL:HG11	41:DG:139:LEU:CD1	2.36	0.56
13:CM:79:LYS:HB3	13:CM:79:LYS:HZ3	1.70	0.56
15:CO:27:VAL:O	15:CO:31:LEU:HD23	2.05	0.56
23:CW:14:A:N1	23:CW:24:A:C5	2.73	0.56
23:CW:38:U:H2'	23:CW:39:A:N7	2.21	0.56
26:D1:50:ARG:HG2	26:D1:59:THR:HG22	1.86	0.56
35:DA:287:C:H2'	35:DA:288:C:C6	2.40	0.56
35:DA:527:C:OP2	35:DA:2779:U:H5	1.89	0.56
35:DA:1590:U:C3'	35:DA:1591:G:H5"	2.36	0.56
35:DA:1803:A:H4'	38:DD:259:THR:HG23	1.87	0.56
36:DB:11:C:C2'	36:DB:12:C:H5'	2.36	0.56
36:DB:41:U:O4	41:DG:71:THR:HA	2.05	0.56
37:DC:23:ILE:HG22	37:DC:23:ILE:O	2.04	0.56
37:DC:29:LEU:HD23	37:DC:32:GLU:HG3	1.88	0.56
41:DG:61:ALA:O	41:DG:65:GLY:N	2.36	0.56
42:DH:83:TYR:HB3	42:DH:134:SER:HA	1.87	0.56
43:DI:53:ALA:O	43:DI:57:ARG:HB2	2.04	0.56
50:DS:54:LEU:C	50:DS:56:LEU:H	2.12	0.56
51:DT:125:ARG:C	51:DT:127:ALA:H	2.14	0.56
52:DU:83:LEU:HD22	52:DU:83:LEU:N	2.12	0.56
52:DU:92:ARG:O	52:DU:93:LYS:C	2.47	0.56
1:AA:41:G:O2'	1:AA:42:G:H5'	2.05	0.56
1:AA:924:C:H2'	1:AA:925:G:C8	2.40	0.56
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.71	0.56
4:AD:8:VAL:HG23	4:AD:9:CYS:H	1.71	0.56
4:AD:114:ARG:O	4:AD:117:ALA:HB3	2.06	0.56
8:AH:51:VAL:HG11	8:AH:60:ARG:CD	2.25	0.56
22:AY:1:G:C2'	22:AY:2:G:H5'	2.35	0.56
29:B4:13:ARG:HH11	29:B4:13:ARG:CB	2.16	0.56
35:BA:171:G:H2'	35:BA:172:C:O4'	2.04	0.56
35:BA:803:U:C2'	35:BA:804:A:H5'	2.34	0.56
36:BB:30:C:H2'	36:BB:31:C:O4'	2.04	0.56
36:BB:87:G:C3'	36:BB:88:C:H5"	2.35	0.56
38:BD:142:VAL:HG21	38:BD:191:ALA:HB1	1.88	0.56
38:BD:267:SER:O	38:BD:268:ARG:CB	2.52	0.56
39:BE:101:ARG:O	39:BE:201:THR:HG22	2.05	0.56
40:BF:22:ALA:O	40:BF:26:ALA:HB2	2.05	0.56
43:BI:21:VAL:HG21	43:BI:26:ALA:HB2	1.87	0.56
45:BN:128:HIS:CE1	45:BN:134:ARG:HD3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:14:THR:O	46:BO:52:VAL:HG23	2.05	0.56
57:BZ:152:ALA:HA	57:BZ:167:PRO:HB2	1.88	0.56
1:CA:123:C:OP1	1:CA:312:C:H5'	2.06	0.56
1:CA:975:A:H8	1:CA:975:A:H5'	1.70	0.56
1:CA:1342:C:H1'	9:CI:124:GLN:HG3	1.87	0.56
12:CL:22:SER:C	12:CL:24:VAL:N	2.63	0.56
12:CL:25:PRO:HD2	12:CL:98:TYR:OH	2.06	0.56
15:CO:85:LEU:HD23	15:CO:85:LEU:C	2.30	0.56
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.36	0.56
18:CR:63:GLN:HA	18:CR:63:GLN:OE1	2.06	0.56
22:CV:7:U:N3	22:CV:69:G:C2	2.73	0.56
22:CV:15:G:C2	22:CV:61:A:C2	2.93	0.56
22:CV:33:G:H2'	22:CV:34:C:H6	1.70	0.56
35:DA:156:U:H4'	35:DA:157:U:C5'	2.33	0.56
35:DA:304:G:H2'	35:DA:305:U:H6	1.69	0.56
35:DA:654(A):G:C2'	35:DA:654(B):C:H5'	2.35	0.56
35:DA:665:C:H2'	35:DA:666:G:H8	1.71	0.56
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.71	0.56
35:DA:1817:G:H2'	35:DA:1818:U:H5'	1.87	0.56
35:DA:1915:U:C2'	35:DA:1916:A:H5"	2.36	0.56
35:DA:2317:C:H2'	35:DA:2318:G:C5'	2.34	0.56
37:DC:8:TYR:OH	37:DC:12:LEU:HD21	2.05	0.56
39:DE:165:VAL:O	39:DE:189:PRO:HG3	2.06	0.56
40:DF:188:ARG:CA	47:DP:7:ARG:HD3	2.35	0.56
43:DI:35:LEU:O	43:DI:36:ALA:HB2	2.06	0.56
50:DS:11:LYS:N	50:DS:11:LYS:HD2	2.20	0.56
50:DS:92:TYR:O	50:DS:93:LYS:HB3	2.05	0.56
56:DY:27:VAL:HA	56:DY:28:LYS:NZ	2.17	0.56
56:DY:74:PRO:O	56:DY:80:GLY:HA2	2.06	0.56
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.70	0.56
6:AF:76:ALA:HB1	6:AF:80:ARG:NH2	2.21	0.56
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.19	0.56
8:AH:51:VAL:HG13	8:AH:60:ARG:HB2	1.88	0.56
11:AK:124:LYS:NZ	11:AK:125:PHE:HE1	2.03	0.56
14:AN:12:ARG:C	14:AN:14:PRO:HD2	2.31	0.56
19:AS:29:ARG:O	19:AS:30:LEU:C	2.48	0.56
23:AW:72:C:H2'	23:AW:73:C:C1'	2.34	0.56
26:B1:35:THR:OG1	35:BA:2079:U:O3'	2.22	0.56
29:B4:50:VAL:C	29:B4:52:THR:H	2.12	0.56
35:BA:847:U:H2'	35:BA:848:G:H5"	1.87	0.56
35:BA:979:G:H3'	35:BA:980:A:H5"	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2298:A:H2'	35:BA:2299:G:O4'	2.06	0.56
35:BA:2317:C:H2'	35:BA:2318:G:C5'	2.36	0.56
37:BC:26:ALA:HB2	37:BC:225:ILE:HG21	1.87	0.56
38:BD:46:GLN:N	38:BD:46:GLN:OE1	2.38	0.56
41:BG:145:THR:OG1	41:BG:146:TYR:N	2.34	0.56
42:BH:55:PRO:HG2	42:BH:61:HIS:CE1	2.41	0.56
43:BI:8:PRO:CA	43:BI:14:ASP:H	2.19	0.56
43:BI:129:THR:HG23	43:BI:136:VAL:C	2.30	0.56
50:BS:11:LYS:N	50:BS:11:LYS:HD2	2.19	0.56
50:BS:34:HIS:HB3	50:BS:53:SER:CB	2.32	0.56
56:BY:100:ALA:O	56:BY:101:LYS:HB2	2.06	0.56
57:BZ:24:LEU:HD23	57:BZ:25:PRO:O	2.06	0.56
57:BZ:128:VAL:HG22	57:BZ:129:SER:N	2.20	0.56
1:CA:28:G:O2'	1:CA:296:U:OP1	2.23	0.56
1:CA:501:C:H2'	1:CA:502:G:H8	1.70	0.56
1:CA:1072:G:H21	2:CB:107:THR:HG21	1.70	0.56
2:CB:50:GLU:HB3	2:CB:200:ILE:O	2.06	0.56
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.87	0.56
6:CF:15:ASP:OD1	6:CF:17:SER:HB2	2.06	0.56
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.69	0.56
12:CL:23:LYS:O	12:CL:24:VAL:HG23	2.05	0.56
12:CL:82:VAL:HG23	12:CL:106:ASP:OD2	2.06	0.56
19:CS:31:ILE:CG2	19:CS:49:ILE:HA	2.36	0.56
20:CT:50:GLU:HA	20:CT:100:ILE:HG22	1.86	0.56
22:CY:58:C:C2	22:CY:59:G:C8	2.93	0.56
35:DA:478:A:H2	56:DY:44:ILE:HD13	1.70	0.56
35:DA:1046:A:H1'	44:DJ:10:UNK:CB	2.36	0.56
36:DB:111:G:O2'	36:DB:112:U:H5'	2.05	0.56
38:DD:209:ALA:C	38:DD:210:GLY:O	2.46	0.56
38:DD:245:PRO:O	38:DD:246:PRO:C	2.47	0.56
40:DF:22:ALA:O	40:DF:26:ALA:HB2	2.04	0.56
45:DN:47:ALA:HB1	45:DN:116:LEU:HD21	1.87	0.56
47:DP:115:LEU:HG	47:DP:116:GLY:N	2.21	0.56
52:DU:88:ILE:C	52:DU:90:VAL:N	2.64	0.56
52:DU:95:LEU:O	52:DU:98:LEU:HG	2.06	0.56
57:DZ:24:LEU:HD12	57:DZ:41:LEU:HD22	1.88	0.56
57:DZ:128:VAL:HG22	57:DZ:132:ASN:HB2	1.88	0.56
1:AA:100:C:H2'	1:AA:101:A:O4'	2.05	0.56
1:AA:706:A:N7	1:AA:707:C:H5	2.03	0.56
1:AA:1027:C:H1'	1:AA:1035:A:H2	1.71	0.56
1:AA:1120:G:H2'	1:AA:1121:U:C6	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1228:C:C5'	13:AM:108:ARG:NH2	2.69	0.56
2:AB:91:PRO:HG3	2:AB:154:LEU:HD12	1.88	0.56
2:AB:102:LEU:HD23	2:AB:182:ILE:HD12	1.86	0.56
2:AB:121:LEU:O	2:AB:127:ILE:HD11	2.05	0.56
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.34	0.56
3:AC:32:LEU:HB3	3:AC:59:ARG:HH22	1.70	0.56
4:AD:43:HIS:O	4:AD:45:GLN:N	2.31	0.56
5:AE:20:GLN:OE1	5:AE:21:ALA:N	2.38	0.56
7:AG:45:ASP:HA	7:AG:48:LYS:HE2	1.88	0.56
7:AG:77:SER:OG	23:AW:35:U:C5'	2.53	0.56
9:AI:4:TYR:HB3	9:AI:84:ALA:HB1	1.88	0.56
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.38	0.56
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.88	0.56
19:AS:20:LEU:HA	19:AS:23:ASN:ND2	2.14	0.56
22:AV:52:C:O2	22:AV:66:G:N1	2.37	0.56
22:AV:68:A:C6	22:AV:69:G:C8	2.94	0.56
23:AW:47:G:H2'	23:AW:48:G:H5'	1.87	0.56
22:AY:63:C:O4'	57:BZ:186:GLU:CB	2.53	0.56
31:B6:11:LEU:N	31:B6:11:LEU:HD13	2.20	0.56
35:BA:71:A:C2	55:BX:31:HIS:HE1	2.24	0.56
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.06	0.56
41:BG:46:ALA:C	41:BG:82:LEU:HD11	2.31	0.56
51:BT:70:VAL:CG1	51:BT:71:GLY:N	2.68	0.56
52:BU:65:ILE:HD11	52:BU:96:ALA:HB3	1.88	0.56
52:BU:74:LEU:H	52:BU:74:LEU:HD13	1.69	0.56
53:BV:49:THR:HB	53:BV:50:PRO:HD2	1.87	0.56
1:CA:383:A:H2'	1:CA:384:G:C5'	2.33	0.56
1:CA:651:C:O2'	1:CA:652:U:H5'	2.06	0.56
1:CA:765:G:N2	1:CA:813:U:H5	2.04	0.56
1:CA:882:C:O2'	1:CA:883:C:H5'	2.05	0.56
1:CA:1196:U:N3	24:CX:23:A:N1	2.52	0.56
4:CD:122:ARG:HD2	4:CD:134:ASP:O	2.06	0.56
9:CI:2:GLU:O	9:CI:2:GLU:HG2	2.04	0.56
9:CI:63:ILE:HG22	9:CI:64:THR:N	2.20	0.56
10:CJ:8:LEU:O	10:CJ:16:LEU:HD21	2.06	0.56
10:CJ:97:GLU:C	10:CJ:98:ILE:HD12	2.31	0.56
12:CL:33:ARG:HD3	12:CL:62:SER:HB3	1.87	0.56
22:CY:20:G:C3'	22:CY:21:U:C5'	2.82	0.56
29:D4:27:THR:O	29:D4:27:THR:HG23	2.06	0.56
33:D8:33:ASN:O	33:D8:34:TRP:HB3	2.05	0.56
34:D9:7:VAL:HG12	34:D9:25:VAL:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:544:G:N2	35:DA:547:A:H2'	2.18	0.56
35:DA:587:C:H2'	47:DP:33:ARG:CZ	2.36	0.56
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.65	0.56
35:DA:2298:A:H2'	35:DA:2299:G:O4'	2.06	0.56
38:DD:25:THR:HG22	38:DD:26:LYS:HD3	1.88	0.56
41:DG:14:GLU:C	41:DG:17:PRO:HD2	2.31	0.56
42:DH:8:PRO:O	42:DH:9:ILE:HG22	2.06	0.56
43:DI:91:SER:HB3	43:DI:121:LYS:HD3	1.88	0.56
43:DI:129:THR:HG23	43:DI:136:VAL:C	2.30	0.56
48:DQ:137:TYR:N	48:DQ:137:TYR:CD1	2.72	0.56
54:DW:64:MET:HE2	54:DW:109:GLU:HG3	1.87	0.56
1:AA:976:G:N2	1:AA:1362:C:H2'	2.21	0.56
2:AB:14:GLY:C	2:AB:15:VAL:HG22	2.31	0.56
2:AB:79:ASP:C	2:AB:81:VAL:H	2.13	0.56
5:AE:33:VAL:CG2	5:AE:109:ILE:HG12	2.36	0.56
9:AI:2:GLU:O	9:AI:2:GLU:HG2	2.05	0.56
9:AI:21:PRO:HA	9:AI:58:HIS:O	2.05	0.56
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	2.06	0.56
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.05	0.56
13:AM:93:ARG:CG	35:BA:888:C:OP1	2.54	0.56
18:AR:36:ASN:HB3	18:AR:39:VAL:HB	1.87	0.56
22:AV:3:G:H2'	22:AV:4:C:C5'	2.36	0.56
22:AV:5:C:C2	22:AV:6:C:C5	2.94	0.56
22:AV:20:G:H4'	22:AV:21:U:OP2	2.05	0.56
23:AW:8:U:H3	23:AW:24:A:N6	2.03	0.56
23:AW:52:C:N3	23:AW:53:U:C4	2.74	0.56
31:B6:48:VAL:HG23	31:B6:49:HIS:N	2.20	0.56
32:B7:8:ASN:ND2	32:B7:11:LYS:H	2.03	0.56
33:B8:33:ASN:O	33:B8:34:TRP:HB3	2.05	0.56
34:B9:4:ARG:HD2	34:B9:34:GLN:HE21	1.70	0.56
35:BA:2801(A):A:C4'	35:BA:2802:G:H5'	2.31	0.56
40:BF:148:LEU:HD21	40:BF:191:ARG:HH11	1.70	0.56
41:BG:81:LYS:O	41:BG:82:LEU:O	2.24	0.56
46:BO:10:VAL:HG21	46:BO:16:ALA:O	2.06	0.56
48:BQ:2:LEU:O	48:BQ:70:PRO:HG2	2.06	0.56
48:BQ:36:ALA:HB2	48:BQ:103:MET:SD	2.46	0.56
49:BR:29:LEU:CD2	49:BR:70:LEU:HD11	2.35	0.56
50:BS:28:VAL:O	50:BS:89:ARG:HD2	2.05	0.56
50:BS:51:ALA:HB3	50:BS:73:LEU:HB2	1.88	0.56
53:BV:14:VAL:O	53:BV:15:GLU:HG3	2.06	0.56
56:BY:95:LYS:CE	56:BY:100:ALA:HB1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:51:ALA:HB1	57:BZ:57:ILE:HD11	1.88	0.56
1:CA:67:C:H2'	1:CA:68:G:H8	1.68	0.56
1:CA:973:G:O4'	10:CJ:55:LYS:HG3	2.06	0.56
1:CA:1502:A:H5'	1:CA:1504:G:N7	2.21	0.56
2:CB:91:PRO:HG3	2:CB:154:LEU:HD12	1.87	0.56
3:CC:64:VAL:HG11	3:CC:66:VAL:HG23	1.88	0.56
3:CC:79:ARG:HH11	3:CC:79:ARG:HG3	1.71	0.56
3:CC:116:VAL:O	3:CC:119:ARG:HB3	2.05	0.56
5:CE:36:ASP:O	5:CE:37:ARG:HG3	2.05	0.56
9:CI:127:LYS:O	9:CI:127:LYS:HG2	2.06	0.56
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.39	0.56
10:CJ:100:THR:HG22	10:CJ:101:VAL:N	2.20	0.56
23:CW:5:C:C2	23:CW:72:C:N3	2.74	0.56
23:CW:42:C:H2'	23:CW:43:G:C5'	2.36	0.56
22:CY:19:G:O6	57:DZ:184:ALA:O	2.24	0.56
27:D2:13:ALA:HA	27:D2:16:LEU:CD1	2.36	0.56
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.87	0.56
35:DA:157:U:H5'	35:DA:158:U:OP2	2.06	0.56
35:DA:654(S):G:H2'	35:DA:654(S):G:N3	2.20	0.56
35:DA:2657:A:O2'	42:DH:160:LYS:HE2	2.06	0.56
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.87	0.56
47:DP:17:LYS:HG2	47:DP:17:LYS:O	2.05	0.56
51:DT:64:ARG:HA	51:DT:72:VAL:O	2.06	0.56
52:DU:101:ARG:HH11	52:DU:101:ARG:CB	2.18	0.56
55:DX:57:LEU:HD22	55:DX:57:LEU:O	2.05	0.56
56:DY:84:ARG:HD2	56:DY:97:ARG:CD	2.36	0.56
57:DZ:136:PHE:O	57:DZ:138:GLU:N	2.39	0.56
1:AA:1113:C:H6	1:AA:1113:C:O5'	1.89	0.56
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.36	0.56
4:AD:39:PRO:O	4:AD:44:GLY:HA3	2.06	0.56
9:AI:65:VAL:HG21	9:AI:73:GLN:CB	2.33	0.56
12:AL:22:SER:C	12:AL:24:VAL:N	2.64	0.56
12:AL:38:THR:O	12:AL:79:GLU:HG2	2.06	0.56
22:AV:24:A:C2	22:AV:25:A:N7	2.74	0.56
22:AV:36:AG9:H2'	22:AV:37:A:H5'	1.88	0.56
22:AV:44:A:C6	22:AV:45:U:C5	2.94	0.56
23:AW:59:G:O2'	23:AW:60:A:H5'	2.05	0.56
22:AY:25:A:C2	22:AY:26:G:C4	2.93	0.56
25:B0:36:ILE:HD13	25:B0:58:THR:HG23	1.87	0.56
25:B0:81:VAL:O	25:B0:83:PRO:HD3	2.05	0.56
30:B5:45:VAL:HG11	30:B5:55:ARG:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1846:G:H5'	35:BA:1846:G:C8	2.36	0.56
35:BA:2477:C:H5'	35:BA:2477:C:C6	2.41	0.56
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.88	0.56
39:BE:21:VAL:HG23	39:BE:23:VAL:HG13	1.87	0.56
39:BE:51:PHE:N	39:BE:74:PRO:HG2	2.20	0.56
39:BE:116:VAL:HG22	39:BE:122:PHE:CG	2.41	0.56
43:BI:91:SER:HB3	43:BI:121:LYS:HD3	1.88	0.56
48:BQ:57:HIS:NE2	48:BQ:116:GLU:CG	2.69	0.56
50:BS:106:ARG:HB3	50:BS:106:ARG:CZ	2.35	0.56
52:BU:91:ASP:CG	52:BU:96:ALA:HB2	2.31	0.56
53:BV:19:LYS:HB3	53:BV:94:LEU:O	2.05	0.56
53:BV:87:HIS:NE2	53:BV:89:GLN:HG2	2.21	0.56
57:BZ:80:ARG:HH11	57:BZ:80:ARG:CB	2.19	0.56
1:CA:114:U:H2'	1:CA:115:G:H8	1.66	0.56
1:CA:179:A:H2'	1:CA:180:U:H6	1.70	0.56
1:CA:245:C:O2'	1:CA:246:A:H5'	2.04	0.56
1:CA:276:G:O2'	1:CA:277:C:H5'	2.06	0.56
1:CA:1072:G:H2'	1:CA:1073:U:O4'	2.06	0.56
1:CA:1442(A):G:H2'	51:DT:118:ARG:HH11	1.71	0.56
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.34	0.56
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.36	0.56
3:CC:162:GLN:HG2	24:CX:24:A:C1'	2.35	0.56
9:CI:93:ARG:HG3	9:CI:97:LYS:HB2	1.87	0.56
10:CJ:44:VAL:HG22	10:CJ:66:ARG:HG2	1.87	0.56
12:CL:72:GLY:C	12:CL:73:GLU:HG3	2.30	0.56
14:CN:12:ARG:C	14:CN:14:PRO:HD2	2.31	0.56
16:CP:58:TYR:C	16:CP:60:LEU:H	2.14	0.56
25:D0:84:LEU:HD12	25:D0:84:LEU:N	2.20	0.56
29:D4:31:ILE:HD12	29:D4:31:ILE:N	2.21	0.56
35:DA:573:G:N1	35:DA:2031:A:OP2	2.34	0.56
35:DA:1467:C:O2'	35:DA:1468:C:H5'	2.06	0.56
35:DA:1568:G:H21	38:DD:58:HIS:CE1	2.24	0.56
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.06	0.56
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.88	0.56
38:DD:176:ARG:HG2	38:DD:176:ARG:NH1	2.21	0.56
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.74	0.56
45:DN:69:GLN:O	45:DN:71:ILE:HG13	2.05	0.56
45:DN:128:HIS:HE1	45:DN:134:ARG:CZ	2.19	0.56
47:DP:112:LEU:HD22	47:DP:113:LYS:N	2.21	0.56
1:AA:345:C:O2'	51:BT:35:LYS:NZ	2.38	0.56
1:AA:376:G:O2'	1:AA:377:G:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:591:U:H2'	1:AA:592:G:H8	1.70	0.56
1:AA:693:G:H2'	1:AA:694:A:C8	2.40	0.56
1:AA:1122:U:H2'	1:AA:1123:A:C8	2.41	0.56
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.19	0.56
3:AC:40:ARG:O	3:AC:44:GLU:HB2	2.05	0.56
4:AD:23:GLY:O	4:AD:27:TYR:HD1	1.89	0.56
5:AE:36:ASP:OD1	5:AE:38:GLN:N	2.34	0.56
8:AH:17:THR:HB	8:AH:78:GLN:OE1	2.06	0.56
10:AJ:97:GLU:C	10:AJ:98:ILE:HD12	2.31	0.56
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.19	0.56
23:AW:9:A:N3	23:AW:47:G:H2'	2.20	0.56
29:B4:7:PRO:CG	41:BG:62:LEU:HD12	2.37	0.56
33:B8:23:VAL:CG1	33:B8:46:ARG:HB3	2.36	0.56
35:BA:654(S):G:N3	35:BA:654(S):G:H2'	2.21	0.56
35:BA:2012:G:O3'	54:BW:96:ILE:HG13	2.06	0.56
35:BA:2635:C:OP1	39:BE:77:ILE:HG21	2.06	0.56
35:BA:2657:A:O2'	42:BH:160:LYS:HE2	2.06	0.56
35:BA:2807:G:H3'	35:BA:2808:U:H5"	1.88	0.56
36:BB:60:C:H2'	36:BB:61:G:H8	1.71	0.56
38:BD:31:LYS:HB3	38:BD:34:VAL:HG22	1.88	0.56
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.36	0.56
42:BH:44:VAL:HG12	42:BH:45:VAL:N	2.21	0.56
43:BI:140:LEU:HD23	43:BI:140:LEU:C	2.31	0.56
45:BN:133:GLN:CG	45:BN:134:ARG:H	2.06	0.56
47:BP:107:LYS:O	47:BP:109:GLY:N	2.39	0.56
51:BT:91:ARG:O	51:BT:117:ASP:HB2	2.06	0.56
52:BU:102:GLU:HG3	53:BV:2:PHE:CZ	2.41	0.56
55:BX:64:LYS:HZ3	55:BX:73:ARG:HE	1.53	0.56
1:CA:417:C:O2'	1:CA:418:C:H5'	2.05	0.56
1:CA:976:G:N2	1:CA:1362:C:H2'	2.20	0.56
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.05	0.56
3:CC:125:GLU:HG2	3:CC:190:ARG:H	1.70	0.56
4:CD:49:ARG:HA	4:CD:49:ARG:NE	2.20	0.56
7:CG:31:MET:SD	7:CG:36:LYS:HB2	2.46	0.56
7:CG:69:VAL:HG12	7:CG:69:VAL:O	2.06	0.56
12:CL:117:ARG:CZ	12:CL:117:ARG:HB2	2.36	0.56
18:CR:58:LEU:HD12	18:CR:58:LEU:N	2.20	0.56
20:CT:38:LYS:HA	20:CT:41:ILE:HD11	1.88	0.56
22:CV:77:C:H5'	22:CV:77:C:C6	2.41	0.56
26:D1:89:GLU:CA	26:D1:92:LYS:HB3	2.31	0.56
31:D6:27:LYS:HB3	31:D6:30:THR:CG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1029:A:H2'	35:DA:1030:G:O4'	2.05	0.56
35:DA:1266:G:P	54:DW:15:ARG:HH22	2.29	0.56
35:DA:2543:G:H2'	35:DA:2544:G:H8	1.71	0.56
35:DA:2639:A:H2'	35:DA:2640:G:H5'	1.88	0.56
37:DC:26:ALA:HB2	37:DC:225:ILE:HG21	1.87	0.56
38:DD:26:LYS:O	38:DD:27:THR:HB	2.04	0.56
39:DE:111:ARG:HG2	49:DR:2:ARG:NH2	2.21	0.56
41:DG:145:THR:OG1	41:DG:146:TYR:N	2.33	0.56
43:DI:88:ILE:CG2	43:DI:89:TYR:N	2.69	0.56
47:DP:144:GLU:N	47:DP:145:PRO:CD	2.54	0.56
50:DS:56:LEU:O	50:DS:56:LEU:HD23	2.06	0.56
51:DT:65:LYS:CE	51:DT:66:VAL:H	2.19	0.56
53:DV:19:LYS:HB3	53:DV:94:LEU:O	2.05	0.56
56:DY:81:LYS:HD3	56:DY:97:ARG:CB	2.35	0.56
57:DZ:163:LEU:H	57:DZ:163:LEU:HD23	1.69	0.56
1:AA:154:C:H42	1:AA:167:G:H1	1.53	0.55
1:AA:453:A:H2'	1:AA:454:C:C6	2.41	0.55
1:AA:601:C:H2'	1:AA:602:A:H8	1.70	0.55
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.21	0.55
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.36	0.55
3:AC:34:LEU:O	3:AC:38:ARG:HG2	2.05	0.55
8:AH:68:ARG:HH11	8:AH:68:ARG:HG2	1.71	0.55
9:AI:10:ARG:NH1	9:AI:105:ASP:HB2	2.21	0.55
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.70	0.55
13:AM:6:GLY:C	13:AM:8:GLU:N	2.64	0.55
13:AM:97:PRO:HB2	13:AM:101:GLN:NE2	2.21	0.55
20:AT:46:GLU:HG2	20:AT:46:GLU:O	2.06	0.55
23:AW:11:C:H2'	23:AW:12:U:C1'	2.36	0.55
22:AY:10:G:C2	22:AY:28:G:H1'	2.41	0.55
22:AY:24:A:N1	22:AY:25:A:N7	2.53	0.55
22:AY:68:A:C4	22:AY:69:G:C8	2.95	0.55
29:B4:31:ILE:HD12	29:B4:31:ILE:N	2.21	0.55
35:BA:830:G:H4'	35:BA:831:G:OP2	2.06	0.55
35:BA:1449:A:H5'	35:BA:1450:G:OP2	2.06	0.55
35:BA:2445:G:OP1	40:BF:74:ARG:NH2	2.39	0.55
35:BA:2801(A):A:H5'	35:BA:2802:G:H8	1.70	0.55
36:BB:11:C:C2'	36:BB:12:C:H5'	2.35	0.55
36:BB:65:C:N4	36:BB:109:C:H2'	2.21	0.55
37:BC:190:ILE:O	37:BC:194:ILE:HG12	2.05	0.55
40:BF:28:ILE:N	40:BF:28:ILE:HD13	2.20	0.55
41:BG:118:ARG:HB3	41:BG:181:ARG:NE	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BJ:66:UNK:O	44:BJ:72:UNK:HA	2.04	0.55
45:BN:54:VAL:HB	45:BN:122:VAL:HG22	1.87	0.55
47:BP:17:LYS:C	47:BP:19:VAL:H	2.12	0.55
50:BS:30:ARG:NH2	50:BS:62:LYS:HD2	2.22	0.55
51:BT:12:SER:O	51:BT:13:ARG:NE	2.39	0.55
53:BV:2:PHE:CB	53:BV:42:GLY:HA2	2.36	0.55
56:BY:28:LYS:HG2	56:BY:39:VAL:CG2	2.34	0.55
1:CA:390:C:H4'	16:CP:28:ARG:HH21	1.70	0.55
1:CA:692:U:H5	11:CK:26:ASN:ND2	2.05	0.55
1:CA:1120:G:H2'	1:CA:1121:U:C6	2.41	0.55
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.06	0.55
7:CG:15:ASP:OD1	7:CG:16:LEU:N	2.39	0.55
8:CH:86:ILE:HB	8:CH:133:LEU:HD22	1.88	0.55
9:CI:53:VAL:HB	9:CI:92:TYR:HE2	1.71	0.55
11:CK:124:LYS:HZ3	11:CK:125:PHE:HE1	1.52	0.55
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.06	0.55
23:CW:13:U:C6	23:CW:14:A:H5"	2.41	0.55
22:CY:10:G:C2	22:CY:28:G:H1'	2.39	0.55
22:CY:11:C:H41	22:CY:47:G:N2	2.04	0.55
26:D1:68:PRO:C	26:D1:70:VAL:H	2.12	0.55
33:D8:39:LYS:HE2	33:D8:43:GLN:NE2	2.21	0.55
35:DA:482:A:H4'	56:DY:47:LYS:HG2	1.88	0.55
35:DA:996:A:H4'	52:DU:92:ARG:HE	1.69	0.55
35:DA:1915:U:C3'	35:DA:1916:A:C5'	2.70	0.55
35:DA:2742:C:O2'	35:DA:2743:C:H5'	2.05	0.55
40:DF:34:TRP:CZ2	47:DP:12:ALA:HB2	2.40	0.55
41:DG:5:VAL:H	41:DG:8:LYS:HB3	1.70	0.55
43:DI:83:ALA:CB	43:DI:88:ILE:HG23	2.36	0.55
43:DI:88:ILE:HD11	43:DI:142:VAL:CG1	2.25	0.55
47:DP:84:ASN:C	47:DP:86:LYS:H	2.14	0.55
50:DS:36:TYR:N	50:DS:36:TYR:CD1	2.74	0.55
52:DU:95:LEU:CD1	53:DV:11:GLN:HE21	2.19	0.55
52:DU:101:ARG:O	52:DU:102:GLU:HG2	2.06	0.55
56:DY:2:ARG:HA	56:DY:5:MET:HE2	1.88	0.55
1:AA:646:U:H2'	1:AA:647:C:C6	2.41	0.55
1:AA:1067:A:H1'	1:AA:1068:G:O4'	2.06	0.55
2:AB:12:GLU:C	2:AB:14:GLY:N	2.63	0.55
3:AC:119:ARG:HG3	3:AC:119:ARG:NH1	2.22	0.55
4:AD:13:ARG:O	4:AD:15:GLU:N	2.39	0.55
4:AD:23:GLY:O	4:AD:27:TYR:CD1	2.59	0.55
20:AT:50:GLU:HA	20:AT:100:ILE:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:66:HIS:C	26:B1:68:PRO:HD2	2.31	0.55
29:B4:15:ILE:N	29:B4:31:ILE:O	2.39	0.55
32:B7:12:ARG:CD	32:B7:46:VAL:HG21	2.34	0.55
35:BA:2892:A:N6	35:BA:2893:G:H21	2.04	0.55
36:BB:114:C:H4'	50:BS:46:VAL:HG22	1.88	0.55
38:BD:131:LEU:HD13	38:BD:136:ILE:HG12	1.87	0.55
38:BD:161:THR:O	38:BD:162:SER:HB3	2.05	0.55
45:BN:132:ALA:O	45:BN:133:GLN:HB3	2.07	0.55
50:BS:16:ASN:O	50:BS:19:LYS:N	2.35	0.55
57:BZ:184:ALA:C	57:BZ:186:GLU:HG3	2.29	0.55
1:CA:865:A:H2	1:CA:918:A:H4'	1.71	0.55
2:CB:140:HIS:C	2:CB:143:GLU:HG2	2.31	0.55
4:CD:129:ASN:ND2	4:CD:145:GLU:N	2.51	0.55
8:CH:51:VAL:HG13	8:CH:60:ARG:HB2	1.87	0.55
22:CY:55:G:C5	57:DZ:183:LEU:HD13	2.42	0.55
22:CY:58:C:H2'	22:CY:59:G:H8	1.70	0.55
35:DA:483:A:H4'	56:DY:49:VAL:HA	1.87	0.55
35:DA:1485:G:H2'	35:DA:1486:A:C8	2.41	0.55
35:DA:2302:G:H1'	41:DG:128:ARG:HE	1.71	0.55
35:DA:2777:G:H5"	35:DA:2778:A:H5"	1.88	0.55
39:DE:57:LYS:HZ3	39:DE:63:LEU:HG	1.70	0.55
39:DE:101:ARG:O	39:DE:201:THR:HG22	2.06	0.55
42:DH:7:LEU:CD2	42:DH:69:ARG:HD2	2.25	0.55
43:DI:8:PRO:CA	43:DI:14:ASP:H	2.18	0.55
45:DN:133:GLN:CG	45:DN:135:PRO:HD3	2.35	0.55
47:DP:40:SER:C	47:DP:41:ARG:HE	2.14	0.55
48:DQ:34:LEU:CD1	48:DQ:129:THR:HB	2.30	0.55
50:DS:106:ARG:HB3	50:DS:106:ARG:CZ	2.36	0.55
1:AA:403:C:H2'	1:AA:404:U:H6	1.71	0.55
1:AA:1342:C:H1'	9:AI:124:GLN:HG3	1.88	0.55
5:AE:60:TYR:HE1	5:AE:64:ARG:HH21	1.48	0.55
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.49	0.55
12:AL:48:PRO:HG2	12:AL:49:ASN:HD21	1.71	0.55
17:AQ:9:VAL:HG12	17:AQ:56:VAL:CG2	2.25	0.55
18:AR:31:LEU:HD23	18:AR:31:LEU:N	2.22	0.55
25:B0:53:MET:HG3	25:B0:59:LEU:HD23	1.88	0.55
26:B1:57:GLU:O	26:B1:58:ILE:HG23	2.06	0.55
29:B4:22:ILE:HD12	29:B4:22:ILE:N	2.22	0.55
30:B5:54:GLY:CA	30:B5:55:ARG:HE	2.18	0.55
35:BA:483:A:H4'	56:BY:49:VAL:HA	1.88	0.55
35:BA:709:U:H2'	35:BA:710:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.06	0.55
35:BA:2346:A:H5'	35:BA:2383:G:H1'	1.87	0.55
36:BB:52:A:N6	50:BS:33:LYS:HG3	2.17	0.55
45:BN:89:LYS:HB3	45:BN:89:LYS:HZ2	1.69	0.55
48:BQ:137:TYR:N	48:BQ:137:TYR:CD1	2.72	0.55
49:BR:24:GLN:HE22	49:BR:36:THR:HG21	1.72	0.55
50:BS:59:LYS:CD	50:BS:61:ASN:HB2	2.36	0.55
50:BS:70:GLY:CA	50:BS:101:LEU:HD23	2.36	0.55
54:BW:37:ARG:NH1	54:BW:38:TYR:CZ	2.75	0.55
54:BW:47:VAL:HA	54:BW:50:VAL:HG12	1.89	0.55
56:BY:66:PRO:O	56:BY:67:LEU:HB3	2.05	0.55
56:BY:88:LYS:HE2	56:BY:93:GLY:HA3	1.87	0.55
1:CA:154:C:H42	1:CA:167:G:H1	1.54	0.55
1:CA:370:C:O2'	1:CA:371:G:H5'	2.07	0.55
1:CA:1315:U:H2'	1:CA:1316:G:O4'	2.06	0.55
1:CA:1321:C:H3'	1:CA:1322:C:H5"	1.88	0.55
2:CB:112:VAL:O	2:CB:116:GLU:HG2	2.05	0.55
2:CB:166:ASP:HB3	2:CB:169:LYS:CB	2.37	0.55
3:CC:181:ASN:HD21	3:CC:204:LEU:HB2	1.70	0.55
5:CE:145:LYS:HG2	5:CE:149:GLU:CD	2.32	0.55
23:CW:39:A:C3'	23:CW:41:C:OP2	2.54	0.55
31:D6:48:VAL:O	31:D6:49:HIS:CB	2.54	0.55
35:DA:1052:C:H5	35:DA:1054:A:H61	1.55	0.55
35:DA:2201:C:O2'	35:DA:2202:C:H5'	2.06	0.55
35:DA:2314:C:O2'	35:DA:2315:G:H5'	2.06	0.55
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	2.07	0.55
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	1.88	0.55
38:DD:25:THR:HG22	38:DD:26:LYS:N	2.21	0.55
40:DF:20:LEU:HD12	40:DF:199:TRP:HZ3	1.71	0.55
41:DG:77:ILE:O	41:DG:77:ILE:HG23	2.05	0.55
42:DH:68:THR:O	42:DH:70:THR:N	2.39	0.55
48:DQ:36:ALA:HB1	48:DQ:127:ILE:HD12	1.89	0.55
49:DR:98:LEU:O	49:DR:113:LEU:HD22	2.07	0.55
50:DS:59:LYS:CD	50:DS:61:ASN:HB2	2.35	0.55
51:DT:27:THR:CG2	51:DT:28:VAL:H	2.19	0.55
57:DZ:65:GLN:OE1	57:DZ:67:LEU:HD11	2.07	0.55
1:AA:401:C:H2'	1:AA:402:G:H8	1.71	0.55
3:AC:95:THR:HG22	3:AC:97:LYS:HB2	1.87	0.55
3:AC:95:THR:CG2	3:AC:97:LYS:HB2	2.36	0.55
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.88	0.55
18:AR:36:ASN:HB2	18:AR:40:LEU:CD1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.22	0.55
22:AV:32:G:C6	22:AV:43:G:C6	2.95	0.55
22:AY:28:G:C6	22:AY:29:A:N6	2.75	0.55
22:AY:70:G:C5	22:AY:71:G:N7	2.75	0.55
33:B8:39:LYS:HE2	33:B8:43:GLN:NE2	2.22	0.55
35:BA:80:G:O2'	35:BA:81:G:H5'	2.07	0.55
35:BA:492:A:H2'	35:BA:493:G:O4'	2.07	0.55
35:BA:1494:A:C3'	35:BA:1495:A:H5"	2.36	0.55
35:BA:1590:U:C3'	35:BA:1591:G:H5"	2.36	0.55
35:BA:1790:C:O2'	38:BD:209:ALA:HB2	2.07	0.55
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.21	0.55
35:BA:2861:G:O2'	35:BA:2862:G:H5'	2.07	0.55
39:BE:69:LYS:CE	39:BE:90:THR:H	2.18	0.55
42:BH:9:ILE:HD12	42:BH:50:VAL:HB	1.87	0.55
42:BH:11:VAL:HG21	42:BH:50:VAL:HG23	1.87	0.55
47:BP:84:ASN:C	47:BP:86:LYS:H	2.13	0.55
57:BZ:81:ARG:NH1	57:BZ:81:ARG:CB	2.69	0.55
1:CA:91:C:O2	1:CA:91:C:H2'	2.05	0.55
1:CA:191:G:H1'	20:CT:105:SER:CB	2.35	0.55
1:CA:501:C:O2'	1:CA:502:G:H5'	2.07	0.55
1:CA:505:G:H2'	1:CA:506:G:H8	1.72	0.55
1:CA:520:A:OP2	12:CL:51:ALA:HB1	2.06	0.55
1:CA:1122:U:H2'	1:CA:1123:A:C8	2.41	0.55
1:CA:1228:C:C5'	13:CM:108:ARG:NH2	2.70	0.55
1:CA:1296:C:OP1	13:CM:14:ARG:HD3	2.06	0.55
1:CA:1316:G:H2'	1:CA:1317:C:H5"	1.87	0.55
1:CA:1317:C:OP1	14:CN:17:LYS:HG2	2.06	0.55
2:CB:121:LEU:O	2:CB:127:ILE:HD11	2.07	0.55
2:CB:181:PHE:HD1	8:CH:70:GLN:HB3	1.71	0.55
3:CC:84:ILE:O	3:CC:88:ARG:HG3	2.07	0.55
4:CD:47:ARG:NH2	4:CD:49:ARG:HH22	2.05	0.55
5:CE:20:GLN:OE1	5:CE:21:ALA:N	2.40	0.55
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.87	0.55
7:CG:45:ASP:HA	7:CG:48:LYS:HE2	1.88	0.55
9:CI:50:LEU:O	9:CI:53:VAL:HG22	2.07	0.55
29:D4:2:LYS:NZ	36:DB:44:G:N7	2.52	0.55
29:D4:34:GLU:CB	41:DG:113:ARG:HH11	2.14	0.55
33:D8:34:TRP:HB2	35:DA:2420:C:OP1	2.06	0.55
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.13	0.55
35:DA:1009:A:H5'	52:DU:59:ARG:HD3	1.88	0.55
35:DA:1541:G:H4'	35:DA:1542:A:H5"	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2468:G:H22	35:DA:2481:G:C2'	2.20	0.55
35:DA:2801(A):A:H5'	35:DA:2802:G:H8	1.71	0.55
39:DE:69:LYS:HE3	39:DE:90:THR:N	2.20	0.55
41:DG:95:ARG:HG2	41:DG:95:ARG:NH1	2.21	0.55
44:DJ:22:UNK:O	44:DJ:88:UNK:HA	2.06	0.55
45:DN:128:HIS:CE1	45:DN:134:ARG:HD3	2.41	0.55
47:DP:83:VAL:HG23	47:DP:105:LEU:HD13	1.89	0.55
48:DQ:55:VAL:HG12	48:DQ:64:ILE:CD1	2.33	0.55
49:DR:24:GLN:HE22	49:DR:36:THR:HG21	1.71	0.55
51:DT:34:VAL:O	51:DT:35:LYS:CB	2.54	0.55
1:AA:749:C:O2'	1:AA:750:G:H5'	2.06	0.55
1:AA:765:G:N2	1:AA:813:U:H5	2.05	0.55
2:AB:36:ARG:O	2:AB:41:ILE:HD11	2.07	0.55
2:AB:77:ALA:CB	2:AB:211:ILE:HG21	2.37	0.55
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.89	0.55
7:AG:31:MET:SD	7:AG:36:LYS:HB2	2.46	0.55
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.86	0.55
10:AJ:44:VAL:HG22	10:AJ:66:ARG:HG2	1.88	0.55
12:AL:85:ILE:HG13	12:AL:98:TYR:HB3	1.87	0.55
16:AP:55:ARG:C	16:AP:57:ARG:H	2.13	0.55
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.20	0.55
22:AV:58:C:N4	41:BG:84:LYS:HE2	2.21	0.55
23:AW:34:C:O2	23:AW:34:C:C2'	2.53	0.55
22:AY:14:A:C6	22:AY:24:A:C5	2.94	0.55
30:B5:3:LYS:HB3	35:BA:747:U:C4	2.41	0.55
31:B6:41:PRO:HD2	31:B6:45:LYS:O	2.06	0.55
35:BA:142:A:H1'	35:BA:1408:C:O4'	2.06	0.55
35:BA:319:C:O2'	35:BA:320:A:H5'	2.06	0.55
35:BA:654(H):G:H22	35:BA:654(J):A:H8	1.53	0.55
35:BA:693:C:O2'	35:BA:694:U:H5'	2.06	0.55
35:BA:1280:G:C3'	35:BA:1281:G:H5"	2.36	0.55
35:BA:2125:G:H4'	37:BC:218:THR:HG21	1.88	0.55
38:BD:25:THR:HG22	38:BD:26:LYS:N	2.22	0.55
42:BH:11:VAL:CG1	42:BH:15:VAL:HG23	2.36	0.55
43:BI:92:VAL:CG1	43:BI:120:ILE:HD13	2.33	0.55
43:BI:112:LYS:HD2	43:BI:112:LYS:N	2.22	0.55
45:BN:58:ASP:OD1	45:BN:124:ALA:HB1	2.07	0.55
50:BS:93:LYS:O	50:BS:93:LYS:HG3	2.07	0.55
57:BZ:121:HIS:C	57:BZ:123:ASP:H	2.15	0.55
1:CA:253:U:H2'	1:CA:254:G:H8	1.70	0.55
1:CA:347:G:N2	1:CA:348:G:H1'	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:719:C:O2'	18:CR:49:LYS:HB3	2.07	0.55
1:CA:990:C:H2'	1:CA:991:U:C6	2.42	0.55
1:CA:1292:U:C5'	9:CI:38:GLN:HE22	2.20	0.55
2:CB:96:ARG:HD2	2:CB:96:ARG:N	2.21	0.55
3:CC:40:ARG:O	3:CC:44:GLU:HB2	2.05	0.55
4:CD:31:CYS:HG	58:CD:1000:ZN:ZN	0.27	0.55
5:CE:144:THR:O	5:CE:145:LYS:C	2.49	0.55
17:CQ:97:SER:C	17:CQ:98:LEU:HD12	2.32	0.55
22:CV:34:C:H2'	22:CV:34:C:O2	2.05	0.55
22:CY:56:U:H5"	22:CY:57:U:OP2	2.07	0.55
29:D4:6:HIS:C	29:D4:8:LYS:H	2.15	0.55
33:D8:50:LEU:O	33:D8:51:ALA:CB	2.54	0.55
35:DA:225:A:C2'	35:DA:226:G:H5'	2.36	0.55
35:DA:1396:U:O2	35:DA:1396:U:H2'	2.05	0.55
35:DA:2648:C:H2'	35:DA:2649:U:C6	2.41	0.55
35:DA:2712:U:H5'	35:DA:2712:U:O2	2.07	0.55
38:DD:16:MET:HE1	38:DD:208:LYS:CD	2.28	0.55
38:DD:263:ARG:NH1	38:DD:263:ARG:HB2	2.20	0.55
38:DD:267:SER:O	38:DD:268:ARG:CB	2.55	0.55
44:DJ:57:UNK:O	44:DJ:58:UNK:CB	2.55	0.55
56:DY:36:ALA:HA	56:DY:69:ALA:N	2.21	0.55
1:AA:7:G:H5'	1:AA:298:A:H5'	1.89	0.55
1:AA:336:C:H2'	1:AA:337:C:H6	1.72	0.55
1:AA:417:C:O2'	1:AA:418:C:H5'	2.06	0.55
1:AA:708:C:H2'	1:AA:709:G:C8	2.40	0.55
1:AA:716:A:N3	11:AK:118:GLY:HA2	2.21	0.55
1:AA:963:G:N3	10:AJ:55:LYS:NZ	2.54	0.55
1:AA:1292:U:C5'	9:AI:38:GLN:HE22	2.18	0.55
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.42	0.55
2:AB:39:ILE:O	2:AB:41:ILE:HD12	2.07	0.55
3:AC:64:VAL:HG11	3:AC:66:VAL:HG23	1.88	0.55
3:AC:125:GLU:HG2	3:AC:190:ARG:H	1.70	0.55
5:AE:81:GLU:HG2	5:AE:90:VAL:HG22	1.89	0.55
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.08	0.55
13:AM:79:LYS:HB3	13:AM:79:LYS:HZ3	1.71	0.55
20:AT:57:ARG:HB2	20:AT:57:ARG:HH11	1.71	0.55
22:AV:25:A:C6	22:AV:26:G:C6	2.94	0.55
22:AV:37:A:H2'	22:AV:38:U:C6	2.42	0.55
22:AV:68:A:C6	22:AV:69:G:N7	2.74	0.55
22:AV:71:G:N2	22:AV:72:C:C1'	2.69	0.55
23:AW:42:C:H2'	23:AW:43:G:C5'	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:44:A:H2'	23:AW:45:U:C5'	2.37	0.55
25:B0:40:GLN:NE2	25:B0:43:THR:HA	2.21	0.55
29:B4:14:ILE:HD12	29:B4:14:ILE:N	2.22	0.55
30:B5:6:VAL:CG1	35:BA:2016:U:H1'	2.36	0.55
33:B8:4:MET:CB	33:B8:61:LEU:HD22	2.37	0.55
35:BA:176:G:O2'	35:BA:177:G:H5'	2.06	0.55
35:BA:898:C:C2'	35:BA:899:A:H5'	2.37	0.55
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.07	0.55
35:BA:1045:A:H5"	35:BA:1047:G:N3	2.22	0.55
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.37	0.55
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.41	0.55
42:BH:83:TYR:HB3	42:BH:134:SER:HA	1.89	0.55
45:BN:128:HIS:HE1	45:BN:134:ARG:CZ	2.20	0.55
53:BV:39:LEU:HA	53:BV:47:VAL:CG1	2.36	0.55
57:BZ:27:VAL:HG22	57:BZ:28:MET:N	2.22	0.55
1:CA:151:A:H2'	1:CA:152:A:H5'	1.89	0.55
1:CA:601:C:H2'	1:CA:602:A:H8	1.72	0.55
1:CA:943:U:H2'	1:CA:944:G:H5'	1.89	0.55
1:CA:959:A:C2'	1:CA:960:U:H4'	2.35	0.55
1:CA:1141:C:H2'	1:CA:1142:G:N7	2.22	0.55
2:CB:12:GLU:C	2:CB:14:GLY:N	2.65	0.55
2:CB:77:ALA:CB	2:CB:211:ILE:HG21	2.35	0.55
7:CG:71:PRO:HG3	7:CG:99:LEU:HD13	1.88	0.55
7:CG:79:ARG:HD3	7:CG:82:GLY:H	1.72	0.55
10:CJ:8:LEU:HB3	10:CJ:16:LEU:HD21	1.87	0.55
16:CP:52:ASP:OD2	16:CP:55:ARG:HG3	2.07	0.55
23:CW:4:C:C2	23:CW:5:C:C4	2.94	0.55
22:CY:58:C:H5"	57:DZ:179:ASP:OD2	2.07	0.55
25:D0:50:ASN:HB3	25:D0:63:VAL:HG22	1.89	0.55
30:D5:3:LYS:HZ3	30:D5:5:PRO:HB2	1.70	0.55
30:D5:6:VAL:CG1	35:DA:2016:U:H1'	2.36	0.55
32:D7:8:ASN:HD22	32:D7:9:ARG:N	2.04	0.55
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.07	0.55
35:DA:898:C:C2'	35:DA:899:A:H5'	2.35	0.55
35:DA:900:A:H2'	35:DA:900:A:N3	2.21	0.55
35:DA:1899:G:H22	35:DA:1902:C:H41	0.68	0.55
36:DB:81:G:H5'	36:DB:81:G:N3	2.21	0.55
37:DC:47:LYS:HB3	37:DC:212:SER:HB3	1.88	0.55
39:DE:179:GLU:O	39:DE:180:ASN:HB2	2.06	0.55
41:DG:98:ARG:HA	41:DG:101:ILE:HD12	1.89	0.55
53:DV:28:GLU:OE1	53:DV:29:PRO:HD2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:7:VAL:HG21	56:DY:8:LYS:HZ2	1.71	0.55
56:DY:51:VAL:C	56:DY:53:PRO:HD2	2.31	0.55
1:AA:148:G:H2'	1:AA:149:A:C8	2.41	0.55
1:AA:523:A:H61	12:AL:92:ASP:HB2	1.72	0.55
1:AA:639:G:O2'	1:AA:640:A:H5'	2.06	0.55
1:AA:643:C:H5'	8:AH:31:PHE:CD1	2.42	0.55
1:AA:824:C:H4'	8:AH:1:MET:H1	1.71	0.55
1:AA:859:A:H2'	1:AA:860:A:O4'	2.07	0.55
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.70	0.55
2:AB:17:PHE:CD2	2:AB:44:LEU:HD11	2.42	0.55
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.31	0.55
4:AD:79:PHE:CD2	4:AD:207:TYR:CD2	2.94	0.55
12:AL:117:ARG:HB2	12:AL:117:ARG:CZ	2.36	0.55
13:AM:28:ALA:O	13:AM:30:ALA:N	2.40	0.55
17:AQ:80:GLY:O	17:AQ:81:ARG:HD2	2.07	0.55
23:AW:50:C:C4	23:AW:61:A:C8	2.95	0.55
22:AY:4:C:C2	22:AY:5:C:C5	2.95	0.55
22:AY:56:U:O2	57:BZ:183:LEU:CD2	2.55	0.55
22:AY:68:A:C5	22:AY:69:G:N7	2.74	0.55
33:B8:50:LEU:O	33:B8:51:ALA:CB	2.55	0.55
35:BA:587:C:C4	47:BP:33:ARG:HD3	2.41	0.55
35:BA:1877:A:H5'	35:BA:1878:G:OP2	2.06	0.55
35:BA:2562:U:C2'	35:BA:2563:U:H5'	2.36	0.55
35:BA:2722:G:H2'	35:BA:2723:C:H6	1.70	0.55
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.06	0.55
37:BC:29:LEU:HD23	37:BC:32:GLU:HG3	1.88	0.55
38:BD:35:LYS:O	38:BD:35:LYS:HD2	2.07	0.55
38:BD:134:ARG:HG3	38:BD:135:PHE:CD1	2.42	0.55
39:BE:111:ARG:HG2	49:BR:2:ARG:NH2	2.20	0.55
41:BG:19:LEU:HA	41:BG:22:ARG:HB2	1.88	0.55
41:BG:112:PRO:O	41:BG:113:ARG:HA	2.07	0.55
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.88	0.55
43:BI:53:ALA:O	43:BI:57:ARG:HB2	2.05	0.55
48:BQ:10:ARG:HB2	48:BQ:10:ARG:NH1	2.22	0.55
52:BU:83:LEU:HD22	52:BU:83:LEU:N	2.14	0.55
1:CA:186:C:H5'	20:CT:78:ALA:HB1	1.88	0.55
1:CA:1113:C:O5'	1:CA:1113:C:H6	1.89	0.55
2:CB:233:SER:HB2	2:CB:234:PRO:CD	2.30	0.55
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.72	0.55
10:CJ:33:GLN:H	10:CJ:75:ILE:HD11	1.71	0.55
12:CL:85:ILE:HD11	12:CL:98:TYR:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:46:GLU:HG2	20:CT:46:GLU:O	2.05	0.55
23:CW:72:C:C4	23:CW:73:C:C4	2.95	0.55
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.20	0.55
32:D7:32:LYS:O	32:D7:36:GLN:HB2	2.07	0.55
35:DA:557:U:H2'	35:DA:558:G:H8	1.70	0.55
35:DA:654(H):G:H22	35:DA:654(J):A:H8	1.55	0.55
35:DA:1186:G:H2'	35:DA:1187:G:O4'	2.07	0.55
35:DA:2067:G:O2'	35:DA:2069:G:H5"	2.06	0.55
35:DA:2491:U:H5'	35:DA:2570:G:C5'	2.24	0.55
35:DA:2713:A:H3'	35:DA:2714:G:H5'	1.89	0.55
35:DA:2753:A:O2'	35:DA:2754:U:H5'	2.05	0.55
35:DA:2783:G:H2'	35:DA:2784:C:C6	2.41	0.55
38:DD:25:THR:HG22	38:DD:26:LYS:CD	2.37	0.55
38:DD:35:LYS:O	38:DD:35:LYS:HD2	2.06	0.55
51:DT:117:ASP:O	51:DT:118:ARG:C	2.47	0.55
56:DY:37:VAL:O	56:DY:66:PRO:O	2.24	0.55
1:AA:109:A:H2'	1:AA:326:G:N2	2.22	0.55
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.71	0.55
1:AA:1296:C:H5'	1:AA:1297:C:OP2	2.07	0.55
1:AA:1296:C:OP1	13:AM:14:ARG:HD3	2.06	0.55
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.42	0.55
7:AG:69:VAL:HG12	7:AG:69:VAL:O	2.06	0.55
8:AH:44:PHE:HA	8:AH:79:VAL:HG11	1.89	0.55
8:AH:112:LEU:N	8:AH:112:LEU:HD23	2.21	0.55
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	2.12	0.55
10:AJ:51:ARG:HG3	10:AJ:60:ARG:CA	2.36	0.55
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.37	0.55
20:AT:18:GLN:HE21	20:AT:22:ARG:HH11	1.54	0.55
22:AY:78:A:N1	35:BA:2583:G:O2'	2.37	0.55
25:B0:20:ARG:NH1	35:BA:2357:U:OP1	2.40	0.55
30:B5:51:TYR:HH	30:B5:52:TYR:HD2	1.54	0.55
35:BA:882:G:H2'	35:BA:883:G:C8	2.42	0.55
35:BA:1046:A:H5'	44:BJ:6:UNK:O	2.06	0.55
35:BA:1187:G:H5"	53:BV:81:TYR:CE1	2.41	0.55
35:BA:1495:A:N3	35:BA:1496:A:C2	2.75	0.55
35:BA:2124:G:H5'	37:BC:175:PRO:HD3	1.87	0.55
38:BD:26:LYS:O	38:BD:27:THR:CB	2.55	0.55
38:BD:62:TYR:CE2	38:BD:64:ILE:HA	2.42	0.55
39:BE:13:ARG:HD2	39:BE:20:ALA:HB1	1.89	0.55
41:BG:5:VAL:O	41:BG:8:LYS:HB3	2.07	0.55
41:BG:57:ALA:C	41:BG:59:GLU:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:24:VAL:HG13	42:BH:35:VAL:HB	1.88	0.55
43:BI:83:ALA:CB	43:BI:88:ILE:HG12	2.37	0.55
43:BI:142:VAL:HG12	43:BI:142:VAL:O	2.05	0.55
46:BO:43:VAL:HG21	46:BO:56:ASP:HB2	1.88	0.55
47:BP:97:PRO:O	47:BP:98:GLU:CB	2.55	0.55
47:BP:143:GLY:O	47:BP:144:GLU:HB2	2.07	0.55
49:BR:32:GLY:C	49:BR:33:ARG:HD2	2.32	0.55
49:BR:96:ARG:HB2	49:BR:117:VAL:HG22	1.87	0.55
1:CA:197:A:C5	1:CA:221:C:H4'	2.41	0.55
1:CA:693:G:H2'	1:CA:694:A:C8	2.42	0.55
1:CA:986:A:H1'	19:CS:54:GLY:O	2.06	0.55
1:CA:1405:G:N2	1:CA:1517:G:H22	2.04	0.55
1:CA:1464:G:O2'	1:CA:1465:C:H5'	2.07	0.55
3:CC:90:GLU:HA	3:CC:93:LYS:CB	2.36	0.55
4:CD:79:PHE:CD2	4:CD:207:TYR:CD2	2.95	0.55
5:CE:71:LEU:HD11	5:CE:114:GLY:HA3	1.88	0.55
10:CJ:51:ARG:HG3	10:CJ:60:ARG:CA	2.35	0.55
10:CJ:61:GLU:OE2	14:CN:58:LYS:HE2	2.06	0.55
19:CS:6:LYS:C	19:CS:7:LYS:HE3	2.32	0.55
23:CW:10:G:C4	23:CW:11:C:C5	2.95	0.55
26:D1:51:VAL:O	26:D1:57:GLU:O	2.25	0.55
29:D4:14:ILE:HG23	29:D4:31:ILE:HG22	1.88	0.55
35:DA:107:C:H2'	35:DA:108:U:C6	2.42	0.55
35:DA:363(E):U:H3'	35:DA:363(F):A:O4'	2.07	0.55
35:DA:774:A:H2	35:DA:787:U:O2'	1.90	0.55
35:DA:829:A:N7	35:DA:2247:A:O2'	2.39	0.55
35:DA:847:U:H2'	35:DA:848:G:H5"	1.88	0.55
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.41	0.55
35:DA:2720:U:H2'	35:DA:2720:U:O2	2.07	0.55
35:DA:2892:A:N6	35:DA:2893:G:H21	2.04	0.55
36:DB:60:C:H2'	36:DB:61:G:H8	1.72	0.55
41:DG:82:LEU:C	41:DG:83:ARG:HG3	2.30	0.55
42:DH:20:ALA:HB3	42:DH:23:ARG:HB2	1.88	0.55
45:DN:59:LYS:O	45:DN:60:ILE:C	2.50	0.55
46:DO:68:GLU:HB3	46:DO:78:ARG:HH11	1.70	0.55
47:DP:88:LEU:N	47:DP:88:LEU:HD12	2.22	0.55
50:DS:31:SER:O	50:DS:33:LYS:N	2.40	0.55
51:DT:28:VAL:HG22	51:DT:46:GLU:C	2.31	0.55
51:DT:30:VAL:HG21	51:DT:83:ILE:HG13	1.89	0.55
52:DU:108:GLU:HG3	53:DV:44:LYS:CD	2.34	0.55
53:DV:14:VAL:O	53:DV:15:GLU:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:46:LYS:H	56:DY:62:GLU:CB	2.20	0.55
1:AA:154:C:N4	1:AA:167:G:H1	2.05	0.55
1:AA:529:G:O6	12:AL:49:ASN:HA	2.07	0.55
1:AA:1228:C:P	13:AM:108:ARG:NH2	2.79	0.55
1:AA:1409:C:O5'	1:AA:1409:C:H6	1.90	0.55
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.87	0.55
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.71	0.55
14:AN:27:CYS:O	14:AN:29:ARG:N	2.34	0.55
14:AN:29:ARG:HH12	14:AN:31:ARG:HB2	1.72	0.55
17:AQ:13:ASP:C	17:AQ:15:MET:H	2.15	0.55
17:AQ:97:SER:C	17:AQ:98:LEU:HD12	2.32	0.55
19:AS:69:HIS:HB2	19:AS:74:PHE:HE2	1.71	0.55
22:AV:49:G:H3'	22:AV:50:C:H5"	1.89	0.55
23:AW:15:G:C8	23:AW:61:A:C2	2.95	0.55
26:B1:51:VAL:O	26:B1:57:GLU:O	2.24	0.55
32:B7:8:ASN:HD22	32:B7:9:ARG:N	2.05	0.55
35:BA:108:U:H2'	35:BA:109:G:H8	1.72	0.55
35:BA:481:G:H1'	35:BA:506:G:N2	2.22	0.55
35:BA:523:C:H2'	35:BA:524:U:H5'	1.89	0.55
35:BA:654(U):A:H2'	35:BA:654(V):A:C8	2.42	0.55
35:BA:1339:G:H21	35:BA:1603:A:H1'	1.70	0.55
38:BD:197:GLY:O	38:BD:198:ASN:HB3	2.05	0.55
39:BE:69:LYS:HE3	39:BE:90:THR:OG1	2.07	0.55
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.71	0.55
43:BI:22:LYS:O	43:BI:23:PRO:C	2.50	0.55
56:BY:53:PRO:O	56:BY:54:LYS:HG3	2.06	0.55
57:BZ:12:GLY:O	57:BZ:13:GLU:C	2.50	0.55
1:CA:692:U:C5	11:CK:26:ASN:ND2	2.74	0.55
1:CA:993:G:N3	1:CA:993:G:H2'	2.21	0.55
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.72	0.55
1:CA:1423:G:H5'	46:DO:49:ARG:NH2	2.22	0.55
2:CB:116:GLU:HA	2:CB:119:GLU:CB	2.36	0.55
7:CG:152:ALA:C	7:CG:154:TYR:H	2.15	0.55
12:CL:48:PRO:HG2	12:CL:49:ASN:ND2	2.21	0.55
12:CL:84:LEU:C	12:CL:84:LEU:HD23	2.32	0.55
23:CW:50:C:N4	23:CW:61:A:C8	2.75	0.55
26:D1:23:LYS:CD	26:D1:28:GLY:HA3	2.32	0.55
35:DA:882:G:H2'	35:DA:883:G:C8	2.41	0.55
35:DA:1280:G:C3'	35:DA:1281:G:H5"	2.36	0.55
35:DA:1494:A:C3'	35:DA:1495:A:H5"	2.36	0.55
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2861:G:O2'	35:DA:2862:G:H5'	2.06	0.55
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.75	0.55
39:DE:69:LYS:CE	39:DE:90:THR:H	2.16	0.55
39:DE:100:GLU:O	39:DE:172:VAL:HG23	2.07	0.55
41:DG:5:VAL:O	41:DG:8:LYS:HB3	2.07	0.55
43:DI:21:VAL:HG21	43:DI:26:ALA:HB2	1.88	0.55
43:DI:68:LEU:O	43:DI:68:LEU:HD23	2.07	0.55
47:DP:123:LEU:HD12	47:DP:123:LEU:C	2.32	0.55
48:DQ:103:MET:HE1	48:DQ:125:LEU:HD13	1.89	0.55
52:DU:108:GLU:CG	53:DV:44:LYS:HD3	2.34	0.55
54:DW:56:ALA:O	54:DW:60:ASN:HB3	2.07	0.55
56:DY:88:LYS:CE	56:DY:93:GLY:HA3	2.37	0.55
56:DY:95:LYS:CE	56:DY:100:ALA:HB1	2.36	0.55
1:AA:501:C:O2'	1:AA:502:G:H5'	2.06	0.55
1:AA:892:A:O2'	1:AA:893:C:H5'	2.07	0.55
1:AA:973:G:O4'	10:AJ:55:LYS:HG3	2.07	0.55
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.42	0.55
1:AA:1442(A):G:C2'	51:BT:118:ARG:HH11	2.17	0.55
2:AB:121:LEU:HD22	2:AB:126:GLU:HB2	1.89	0.55
2:AB:124:SER:OG	2:AB:125:PRO:HD2	2.07	0.55
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.21	0.55
3:AC:32:LEU:HD22	3:AC:59:ARG:CZ	2.37	0.55
8:AH:50:ARG:HA	8:AH:59:LEU:HD23	1.89	0.55
12:AL:48:PRO:HG2	12:AL:49:ASN:ND2	2.21	0.55
22:AV:15:G:N9	22:AV:16:U:H5	2.05	0.55
22:AV:78:A:H8	35:BA:2602:A:N6	2.05	0.55
27:B2:25:VAL:O	27:B2:29:LYS:HG2	2.07	0.55
35:BA:898:C:H2'	35:BA:899:A:H5'	1.88	0.55
35:BA:963:U:H2'	35:BA:964:C:C6	2.42	0.55
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.87	0.55
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.37	0.55
35:BA:2762:G:C2'	35:BA:2763:G:H5'	2.37	0.55
38:BD:145:VAL:HG12	38:BD:146:GLU:O	2.07	0.55
39:BE:46:ALA:CB	39:BE:82:ARG:HA	2.36	0.55
47:BP:33:ARG:HG3	47:BP:34:GLY:N	2.22	0.55
51:BT:28:VAL:CG2	51:BT:47:GLY:H	2.14	0.55
56:BY:81:LYS:HD3	56:BY:97:ARG:CB	2.35	0.55
56:BY:95:LYS:HE2	56:BY:101:LYS:H	1.72	0.55
57:BZ:110:GLY:CA	57:BZ:146:ILE:HG23	2.37	0.55
1:CA:100:C:H2'	1:CA:101:A:O4'	2.07	0.55
1:CA:600:C:H2'	1:CA:601:C:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1090:U:O2'	1:CA:1091:U:H5'	2.07	0.55
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.07	0.55
3:CC:11:ARG:HG2	3:CC:11:ARG:HH11	1.72	0.55
8:CH:14:ARG:O	8:CH:18:ARG:HD3	2.06	0.55
10:CJ:5:ARG:O	10:CJ:98:ILE:HA	2.07	0.55
10:CJ:24:VAL:O	10:CJ:28:ARG:HG3	2.07	0.55
12:CL:39:VAL:HB	12:CL:57:LYS:NZ	2.22	0.55
22:CV:9:A:H8	22:CV:11:C:H41	1.54	0.55
26:D1:45:ASN:ND2	26:D1:45:ASN:C	2.64	0.55
27:D2:29:LYS:HD3	27:D2:57:ILE:HG21	1.88	0.55
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.60	0.55
35:DA:918:A:H5"	36:DB:98:G:O2'	2.06	0.55
35:DA:1509(A):A:H2'	35:DA:1509(B):A:C8	2.42	0.55
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.07	0.55
35:DA:2361:A:C2'	35:DA:2362:G:H5'	2.37	0.55
35:DA:2726:U:H4'	46:DO:1:MET:HE1	1.89	0.55
35:DA:2755:C:O2'	35:DA:2756:U:H6	1.89	0.55
43:DI:145:VAL:HG23	43:DI:146:ALA:N	2.21	0.55
46:DO:103:ALA:HB1	46:DO:105:GLU:OE1	2.07	0.55
47:DP:59:LEU:CA	47:DP:61:ARG:CZ	2.73	0.55
47:DP:143:GLY:O	47:DP:144:GLU:HB2	2.07	0.55
49:DR:21:TYR:OH	49:DR:43:GLU:HG2	2.06	0.55
51:DT:70:VAL:CG1	51:DT:71:GLY:N	2.69	0.55
52:DU:46:ALA:O	52:DU:50:ARG:HB2	2.07	0.55
53:DV:1:MET:O	53:DV:2:PHE:HB2	2.06	0.55
57:DZ:152:ALA:HB2	57:DZ:168:GLU:HA	1.89	0.55
1:AA:28:G:O2'	1:AA:296:U:OP1	2.25	0.54
1:AA:254:G:H2'	1:AA:255:G:C8	2.41	0.54
1:AA:600:C:H2'	1:AA:601:C:C6	2.42	0.54
1:AA:1053:G:C4'	1:AA:1054:C:C5'	2.76	0.54
5:AE:6:PHE:HB3	5:AE:35:GLY:O	2.06	0.54
5:AE:145:LYS:HG2	5:AE:149:GLU:CD	2.32	0.54
8:AH:91:ARG:HH11	8:AH:91:ARG:CG	2.20	0.54
19:AS:58:VAL:O	19:AS:58:VAL:HG23	2.07	0.54
20:AT:104:LEU:HD23	20:AT:105:SER:N	2.22	0.54
22:AV:36:AG9:H1A	22:AV:37:A:O4'	2.07	0.54
27:B2:45:SER:N	27:B2:46:GLN:NE2	2.55	0.54
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.89	0.54
35:BA:142:A:H5"	35:BA:142(A):C:C5	2.41	0.54
35:BA:310:A:OP1	56:BY:17:SER:O	2.25	0.54
35:BA:942:G:OP1	47:BP:35:HIS:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1052:C:H5	35:BA:1054:A:H61	1.54	0.54
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.42	0.54
35:BA:2660:A:H2'	35:BA:2661:G:O4'	2.07	0.54
36:BB:52:A:HO2'	36:BB:53:A:H8	1.55	0.54
37:BC:8:TYR:OH	37:BC:12:LEU:HD21	2.06	0.54
39:BE:57:LYS:HZ3	39:BE:63:LEU:HG	1.72	0.54
43:BI:126:TYR:N	43:BI:140:LEU:HD22	2.12	0.54
44:BJ:57:UNK:O	44:BJ:58:UNK:C	2.54	0.54
46:BO:4:PRO:O	46:BO:5:GLN:CB	2.55	0.54
47:BP:40:SER:C	47:BP:41:ARG:HE	2.14	0.54
47:BP:101:VAL:CG2	47:BP:102:ARG:N	2.69	0.54
47:BP:112:LEU:HD22	47:BP:113:LYS:N	2.22	0.54
48:BQ:130:LYS:HZ3	57:BZ:80:ARG:NH1	2.04	0.54
50:BS:12:PHE:O	50:BS:14:VAL:HG23	2.07	0.54
51:BT:70:VAL:HG12	51:BT:71:GLY:O	2.07	0.54
54:BW:25:ARG:NH1	54:BW:25:ARG:HB2	2.23	0.54
57:BZ:144:LEU:HD12	57:BZ:149:SER:OG	2.07	0.54
1:CA:401:C:H2'	1:CA:402:G:H8	1.71	0.54
1:CA:437:U:H2'	1:CA:438:G:O4'	2.07	0.54
1:CA:824:C:H2'	1:CA:825:G:H8	1.72	0.54
1:CA:1067:A:H1'	1:CA:1068:G:O4'	2.07	0.54
7:CG:66:VAL:O	7:CG:70:LYS:HG3	2.07	0.54
8:CH:44:PHE:HA	8:CH:79:VAL:HG11	1.89	0.54
9:CI:13:ALA:HA	9:CI:67:GLY:O	2.07	0.54
11:CK:124:LYS:HZ3	11:CK:124:LYS:HB3	1.72	0.54
12:CL:48:PRO:HG2	12:CL:49:ASN:HD21	1.72	0.54
12:CL:92:ASP:O	12:CL:93:LEU:HD23	2.07	0.54
13:CM:86:CYS:SG	13:CM:88:ARG:HB2	2.47	0.54
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.89	0.54
20:CT:18:GLN:HE21	20:CT:22:ARG:HH11	1.53	0.54
22:CV:23:A:H5'	22:CV:24:A:P	2.46	0.54
22:CY:7:U:H4'	22:CY:8:U:OP2	2.07	0.54
29:D4:12:ALA:CB	29:D4:29:PRO:HA	2.28	0.54
31:D6:11:LEU:N	31:D6:11:LEU:HD13	2.21	0.54
35:DA:1316:U:H2'	35:DA:1317:A:C8	2.42	0.54
35:DA:1877:A:H5'	35:DA:1878:G:OP2	2.06	0.54
35:DA:2124:G:H5'	37:DC:175:PRO:HD3	1.88	0.54
35:DA:2287:A:N6	35:DA:2344:U:H3	2.02	0.54
41:DG:19:LEU:C	41:DG:21:ARG:H	2.13	0.54
42:DH:44:VAL:HG12	42:DH:45:VAL:N	2.21	0.54
42:DH:80:SER:O	42:DH:81:GLU:HB2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DO:4:PRO:O	46:DO:5:GLN:CB	2.54	0.54
49:DR:100:LEU:HD13	49:DR:100:LEU:N	2.22	0.54
54:DW:5:ALA:O	54:DW:6:ILE:CB	2.55	0.54
56:DY:51:VAL:HG12	56:DY:53:PRO:CD	2.32	0.54
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.60	0.54
4:AD:79:PHE:HE2	4:AD:207:TYR:HB2	1.71	0.54
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.88	0.54
8:AH:40:ALA:C	8:AH:42:GLU:N	2.65	0.54
10:AJ:82:ILE:CG2	10:AJ:86:MET:HE2	2.36	0.54
16:AP:58:TYR:C	16:AP:60:LEU:H	2.15	0.54
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.32	0.54
20:AT:10:LEU:HD12	20:AT:11:SER:H	1.71	0.54
29:B4:6:HIS:HE2	41:BG:67:LYS:HE2	1.69	0.54
31:B6:15:GLU:OE1	31:B6:41:PRO:HG3	2.07	0.54
31:B6:30:THR:O	31:B6:32:ASN:N	2.40	0.54
32:B7:12:ARG:NH2	32:B7:44:PRO:HB3	2.22	0.54
35:BA:128:C:H2'	35:BA:129:C:H6	1.71	0.54
35:BA:363(E):U:H3'	35:BA:363(F):A:O4'	2.07	0.54
35:BA:803:U:H2'	35:BA:804:A:H5'	1.89	0.54
35:BA:900:A:N3	35:BA:900:A:H2'	2.21	0.54
35:BA:1817:G:H2'	35:BA:1818:U:H5'	1.88	0.54
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.07	0.54
35:BA:2327:A:H2'	35:BA:2328:A:H8	1.67	0.54
35:BA:2520:C:O5'	35:BA:2520:C:H6	1.90	0.54
35:BA:2778:A:H4'	35:BA:2779:U:OP2	2.06	0.54
37:BC:23:ILE:HG22	37:BC:23:ILE:O	2.05	0.54
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.34	0.54
45:BN:15:LEU:O	45:BN:136:GLU:HA	2.06	0.54
47:BP:115:LEU:HG	47:BP:116:GLY:N	2.23	0.54
50:BS:66:ALA:HA	50:BS:69:VAL:HG12	1.89	0.54
57:BZ:42:VAL:HG13	57:BZ:43:GLU:N	2.22	0.54
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.42	0.54
1:CA:1491:G:H2'	1:CA:1492:A:H5"	1.89	0.54
3:CC:73:PRO:O	3:CC:76:VAL:HG13	2.07	0.54
3:CC:94:LEU:HD12	3:CC:95:THR:N	2.22	0.54
4:CD:18:LYS:CB	4:CD:33:MET:HG2	2.36	0.54
4:CD:157:LEU:CD1	4:CD:161:ASN:HD21	2.19	0.54
9:CI:4:TYR:HB3	9:CI:84:ALA:HB1	1.88	0.54
12:CL:58:VAL:N	12:CL:65:GLU:HG3	2.22	0.54
12:CL:69:TYR:CE2	12:CL:71:PRO:HA	2.41	0.54
19:CS:62:ILE:HG13	19:CS:63:THR:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:33:ILE:HG22	20:CT:37:SER:OG	2.07	0.54
23:CW:12:U:C2	23:CW:26:G:N2	2.73	0.54
23:CW:70:G:C6	23:CW:71:G:C6	2.95	0.54
26:D1:70:VAL:O	26:D1:74:VAL:HG23	2.06	0.54
30:D5:4:HIS:O	35:DA:2056:G:N2	2.40	0.54
35:DA:680:G:H2'	35:DA:681:G:C8	2.42	0.54
35:DA:2123:G:H2'	35:DA:2124:G:H8	1.72	0.54
35:DA:2125:G:H4'	37:DC:218:THR:HG21	1.89	0.54
35:DA:2887:U:O2'	35:DA:2888:C:H5'	2.07	0.54
39:DE:128:SER:OG	39:DE:129:HIS:N	2.39	0.54
40:DF:110:LEU:HA	40:DF:183:VAL:HG12	1.87	0.54
40:DF:125:LEU:HD13	40:DF:199:TRP:CG	2.42	0.54
42:DH:11:VAL:CG1	42:DH:15:VAL:HG23	2.37	0.54
47:DP:107:LYS:O	47:DP:109:GLY:N	2.40	0.54
50:DS:30:ARG:NH2	50:DS:62:LYS:HD2	2.21	0.54
51:DT:27:THR:O	51:DT:28:VAL:CB	2.54	0.54
52:DU:31:SER:O	52:DU:33:ARG:N	2.39	0.54
54:DW:4:LYS:HG3	54:DW:106:ILE:HG22	1.88	0.54
57:DZ:25:PRO:HG2	57:DZ:84:GLU:O	2.08	0.54
1:AA:390:C:H4'	16:AP:28:ARG:HH21	1.71	0.54
1:AA:821:G:H2'	1:AA:822:C:C6	2.41	0.54
1:AA:940:C:H2'	1:AA:941:G:C8	2.40	0.54
1:AA:986:A:H1'	19:AS:54:GLY:O	2.08	0.54
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.72	0.54
3:AC:94:LEU:HD12	3:AC:95:THR:N	2.22	0.54
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.90	0.54
5:AE:144:THR:O	5:AE:145:LYS:C	2.48	0.54
9:AI:84:ALA:O	9:AI:87:GLN:HB3	2.07	0.54
10:AJ:3:LYS:NZ	10:AJ:77:PRO:HD2	2.23	0.54
12:AL:41:ARG:HD2	12:AL:41:ARG:C	2.32	0.54
12:AL:89:ARG:HD3	12:AL:90:VAL:N	2.22	0.54
13:AM:22:ILE:HD12	13:AM:22:ILE:N	2.23	0.54
22:AV:12:U:H3'	22:AV:13:U:H5"	1.89	0.54
23:AW:5:C:O2	23:AW:72:C:C2	2.61	0.54
22:AY:4:C:C4	22:AY:72:C:H5	2.25	0.54
22:AY:43:G:C6	22:AY:44:A:C5	2.94	0.54
30:B5:3:LYS:HZ3	30:B5:5:PRO:HB2	1.72	0.54
31:B6:15:GLU:OE2	31:B6:44:ARG:NH2	2.40	0.54
35:BA:272(E):G:C2	35:BA:364:C:N3	2.76	0.54
35:BA:478:A:H2	56:BY:44:ILE:HD13	1.71	0.54
35:BA:587:C:O2'	35:BA:588:U:OP2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:674:G:H1'	40:BF:74:ARG:CD	2.38	0.54
35:BA:738:G:O2'	35:BA:739:G:H5'	2.07	0.54
35:BA:852:G:O2'	35:BA:853:G:H5'	2.07	0.54
35:BA:2783:G:H2'	35:BA:2784:C:C6	2.42	0.54
49:BR:33:ARG:HG3	49:BR:115:GLU:HG3	1.90	0.54
52:BU:74:LEU:HD21	52:BU:79:PHE:HB2	1.88	0.54
52:BU:102:GLU:HG3	53:BV:2:PHE:CE1	2.42	0.54
57:BZ:146:ILE:HA	57:BZ:174:VAL:O	2.07	0.54
1:CA:301:G:H2'	1:CA:302:G:C8	2.42	0.54
1:CA:376:G:O2'	1:CA:377:G:H5'	2.07	0.54
1:CA:536:C:H2'	1:CA:537:G:C8	2.42	0.54
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.06	0.54
1:CA:859:A:H2'	1:CA:860:A:O4'	2.07	0.54
1:CA:867:G:O2'	1:CA:868:C:H5'	2.06	0.54
1:CA:922:G:N3	1:CA:1398:A:H2	2.05	0.54
1:CA:1128:C:H1'	1:CA:1146:A:H61	1.71	0.54
1:CA:1523:G:H2'	1:CA:1524:C:C6	2.43	0.54
3:CC:34:LEU:O	3:CC:38:ARG:HG2	2.07	0.54
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.89	0.54
4:CD:30:LYS:O	4:CD:32:ALA:N	2.40	0.54
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.20	0.54
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.89	0.54
12:CL:38:THR:CG2	12:CL:39:VAL:H	2.20	0.54
13:CM:97:PRO:HB2	13:CM:101:GLN:NE2	2.22	0.54
19:CS:22:LEU:HD12	19:CS:47:HIS:HE1	1.72	0.54
23:CW:3:G:H1	23:CW:73:C:H42	1.54	0.54
23:CW:20:G:P	23:CW:21:U:C5	3.00	0.54
22:CY:63:C:H2'	22:CY:64:C:H6	1.73	0.54
22:CY:68:A:C5	22:CY:69:G:N7	2.76	0.54
29:D4:11:PRO:O	29:D4:29:PRO:HG3	2.06	0.54
29:D4:42:PHE:HB2	29:D4:43:TYR:HD1	1.72	0.54
31:D6:15:GLU:HG3	31:D6:47:THR:CG2	2.20	0.54
35:DA:1140:C:OP1	45:DN:23:LEU:HD23	2.08	0.54
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.41	0.54
35:DA:2097:C:O2'	35:DA:2098:U:H5'	2.07	0.54
35:DA:2405:G:O2'	35:DA:2406:U:OP2	2.23	0.54
35:DA:2672:G:C3'	35:DA:2673:G:H5"	2.37	0.54
38:DD:26:LYS:O	38:DD:27:THR:CB	2.55	0.54
40:DF:101:LEU:O	40:DF:106:ARG:NH1	2.39	0.54
43:DI:1:MET:O	43:DI:3:VAL:HG23	2.08	0.54
45:DN:18:ALA:HB1	45:DN:21:LYS:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:46:GLU:OE2	51:DT:88:ILE:HG13	2.07	0.54
53:DV:12:TYR:CE2	53:DV:22:VAL:HG12	2.42	0.54
55:DX:10:ALA:HB1	55:DX:11:PRO:HD2	1.88	0.54
57:DZ:74:VAL:HG12	57:DZ:86:VAL:CG1	2.32	0.54
1:AA:67:C:H2'	1:AA:68:G:H8	1.69	0.54
1:AA:348:G:H2'	1:AA:349:A:H5'	1.89	0.54
1:AA:490:G:H2'	1:AA:491:G:C8	2.43	0.54
1:AA:943:U:H2'	1:AA:944:G:H5'	1.89	0.54
1:AA:1320:C:H5'	19:AS:70:LYS:CG	2.37	0.54
2:AB:15:VAL:HG21	2:AB:209:ARG:NH2	2.15	0.54
3:AC:91:LEU:O	3:AC:95:THR:HB	2.07	0.54
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.07	0.54
5:AE:109:ILE:O	5:AE:113:ALA:HB2	2.07	0.54
9:AI:95:LYS:O	9:AI:99:LEU:HB2	2.07	0.54
12:AL:54:LYS:H	12:AL:54:LYS:CD	2.18	0.54
13:AM:81:LEU:HB3	13:AM:88:ARG:HB2	1.90	0.54
19:AS:66:MET:HE3	19:AS:74:PHE:CZ	2.41	0.54
22:AV:14:A:C5	22:AV:24:A:C5	2.96	0.54
26:B1:57:GLU:O	26:B1:58:ILE:CG1	2.53	0.54
27:B2:63:VAL:HA	27:B2:66:GLU:CG	2.34	0.54
27:B2:64:LEU:CD1	27:B2:68:ARG:HH12	2.19	0.54
29:B4:6:HIS:C	29:B4:8:LYS:H	2.14	0.54
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.08	0.54
35:BA:1372:U:H2'	35:BA:1373:A:H8	1.72	0.54
38:BD:9:TYR:CD1	38:BD:10:THR:HG22	2.43	0.54
40:BF:160:ASN:ND2	40:BF:162:LEU:H	2.06	0.54
41:BG:16:ARG:HG3	41:BG:16:ARG:NH1	2.21	0.54
45:BN:18:ALA:HB1	45:BN:21:LYS:HB2	1.90	0.54
54:BW:5:ALA:O	54:BW:6:ILE:CB	2.53	0.54
55:BX:24:GLY:O	55:BX:82:GLN:HA	2.08	0.54
56:BY:28:LYS:HB3	56:BY:38:ILE:N	2.15	0.54
57:BZ:157:LEU:HD23	57:BZ:157:LEU:N	2.22	0.54
1:CA:1234:C:H2'	1:CA:1235:U:C6	2.42	0.54
1:CA:1368:G:O2'	1:CA:1369:C:H5'	2.07	0.54
1:CA:1473:A:H2'	1:CA:1474:G:C8	2.43	0.54
1:CA:1513:A:C6	1:CA:1514:C:N4	2.76	0.54
4:CD:24:GLU:CD	4:CD:24:GLU:C	2.75	0.54
4:CD:35:ARG:C	4:CD:37:PRO:HD3	2.33	0.54
11:CK:74:ALA:C	11:CK:76:GLY:N	2.65	0.54
13:CM:99:ARG:O	13:CM:101:GLN:HG3	2.08	0.54
19:CS:17:GLU:O	19:CS:21:GLU:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:47:G:H2'	23:CW:48:G:H5'	1.89	0.54
22:CY:6:C:H2'	22:CY:7:U:C5	2.42	0.54
35:DA:341:G:O2'	35:DA:342:G:H5'	2.07	0.54
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.43	0.54
35:DA:2193:G:H2'	35:DA:2194:G:H8	1.72	0.54
35:DA:2443:C:O2'	35:DA:2444:G:H5'	2.07	0.54
35:DA:2524:G:H5'	35:DA:2524:G:C8	2.39	0.54
35:DA:2660:A:H2'	35:DA:2661:G:O4'	2.08	0.54
38:DD:30:GLU:CG	38:DD:63:ARG:NE	2.70	0.54
39:DE:117:MET:CE	39:DE:124:GLY:HA3	2.37	0.54
40:DF:160:ASN:ND2	40:DF:162:LEU:H	2.05	0.54
42:DH:41:MET:SD	42:DH:52:VAL:HG13	2.47	0.54
48:DQ:30:GLY:CA	48:DQ:107:ALA:HB2	2.37	0.54
51:DT:57:PHE:O	51:DT:59:THR:CG2	2.55	0.54
55:DX:30:VAL:HG11	55:DX:39:ILE:HD12	1.89	0.54
1:AA:222:U:H2'	1:AA:223:U:C6	2.43	0.54
1:AA:227:G:H2'	1:AA:228:A:C8	2.43	0.54
1:AA:253:U:H2'	1:AA:254:G:H8	1.73	0.54
1:AA:963:G:N2	10:AJ:55:LYS:HD3	2.23	0.54
1:AA:993:G:H2'	1:AA:993:G:N3	2.21	0.54
1:AA:1054:C:H42	22:AY:36:AG9:HN2	1.55	0.54
3:AC:90:GLU:HA	3:AC:93:LYS:CB	2.37	0.54
4:AD:47:ARG:NH2	4:AD:49:ARG:HH22	2.05	0.54
4:AD:129:ASN:H	4:AD:129:ASN:HD22	1.55	0.54
5:AE:71:LEU:HD11	5:AE:114:GLY:HA3	1.90	0.54
9:AI:31:GLN:NE2	9:AI:36:TYR:HA	2.22	0.54
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.07	0.54
12:AL:24:VAL:HG13	12:AL:98:TYR:HE2	1.71	0.54
12:AL:49:ASN:ND2	12:AL:49:ASN:N	2.53	0.54
20:AT:89:ARG:NH1	20:AT:104:LEU:HD21	2.23	0.54
29:B4:5:ILE:HG12	41:BG:67:LYS:CD	2.38	0.54
29:B4:8:LYS:O	29:B4:9:LEU:HB3	2.07	0.54
33:B8:29:LYS:HG3	33:B8:29:LYS:O	2.08	0.54
35:BA:141:A:H8	35:BA:1408:C:HO2'	1.48	0.54
35:BA:158:U:H2'	35:BA:171:G:O5'	2.08	0.54
35:BA:855:G:H2'	35:BA:856:C:C6	2.43	0.54
35:BA:1528(A):A:H62	35:BA:1541:G:N2	2.05	0.54
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.06	0.54
35:BA:2724:C:P	49:BR:2:ARG:NH2	2.80	0.54
35:BA:2884:U:C2'	35:BA:2885:C:H5'	2.38	0.54
37:BC:14:LYS:HE3	37:BC:32:GLU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:110:LEU:HD13	40:BF:202:PHE:HE1	1.73	0.54
43:BI:77:LEU:HD12	43:BI:101:LEU:HD13	1.89	0.54
56:BY:27:VAL:C	56:BY:28:LYS:HZ1	2.15	0.54
56:BY:37:VAL:O	56:BY:66:PRO:O	2.25	0.54
1:CA:1027:C:H1'	1:CA:1035:A:H2	1.71	0.54
3:CC:32:LEU:HB3	3:CC:59:ARG:HH22	1.73	0.54
3:CC:154:SER:O	3:CC:165:THR:HA	2.07	0.54
4:CD:30:LYS:C	4:CD:32:ALA:N	2.58	0.54
8:CH:39:LEU:O	8:CH:45:ILE:HG12	2.08	0.54
9:CI:31:GLN:NE2	9:CI:36:TYR:HA	2.23	0.54
23:CW:4:C:H2'	23:CW:4:C:P	2.47	0.54
23:CW:20:G:N1	23:CW:58:C:C4	2.76	0.54
23:CW:70:G:C4	23:CW:71:G:C8	2.96	0.54
22:CY:25:A:O2'	22:CY:26:G:H5'	2.07	0.54
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.55	0.54
35:DA:271(R):G:O2'	35:DA:271(S):G:H5'	2.07	0.54
35:DA:308:G:O2'	56:DY:19:LYS:HE2	2.08	0.54
35:DA:676:A:H2	35:DA:802:A:N6	2.01	0.54
35:DA:692:C:H2'	35:DA:693:C:C6	2.43	0.54
35:DA:1860:G:H1	35:DA:1882:C:H42	1.56	0.54
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.88	0.54
39:DE:69:LYS:C	39:DE:71:GLY:H	2.14	0.54
43:DI:13:GLY:O	43:DI:14:ASP:HB2	2.07	0.54
43:DI:112:LYS:N	43:DI:112:LYS:HD2	2.22	0.54
45:DN:17:ASP:HB2	45:DN:55:VAL:HG12	1.87	0.54
50:DS:74:ALA:HB1	50:DS:103:GLU:HB2	1.89	0.54
54:DW:47:VAL:HA	54:DW:50:VAL:HG12	1.87	0.54
1:AA:245:C:O2'	1:AA:246:A:H5'	2.08	0.54
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.42	0.54
1:AA:1329:A:N7	21:AU:7:ARG:NH2	2.53	0.54
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.08	0.54
2:AB:50:GLU:HB3	2:AB:200:ILE:O	2.07	0.54
3:AC:14:ILE:HG23	3:AC:15:THR:N	2.22	0.54
4:AD:35:ARG:C	4:AD:37:PRO:HD3	2.32	0.54
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.08	0.54
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.90	0.54
12:AL:66:VAL:HG12	12:AL:67:THR:N	2.19	0.54
19:AS:62:ILE:HG13	19:AS:63:THR:N	2.23	0.54
20:AT:93:GLU:C	20:AT:93:GLU:OE1	2.51	0.54
22:AY:32:G:N1	22:AY:42:C:O2	2.39	0.54
32:B7:8:ASN:ND2	32:B7:10:ARG:H	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:654(A):G:O2'	35:BA:654(B):C:H5'	2.07	0.54
35:BA:1280:G:C2'	35:BA:1281:G:H5"	2.37	0.54
35:BA:1952:A:C5	46:BO:22:ILE:HD12	2.43	0.54
35:BA:2308:G:N2	41:BG:79:ASN:CG	2.66	0.54
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	2.07	0.54
38:BD:16:MET:HE1	38:BD:208:LYS:CD	2.29	0.54
38:BD:72:LYS:HD3	38:BD:97:TYR:CE2	2.43	0.54
38:BD:125:ILE:HD13	38:BD:131:LEU:HD21	1.90	0.54
39:BE:10:GLY:HA3	51:BT:8:LYS:HZ2	1.72	0.54
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.07	0.54
40:BF:188:ARG:CA	47:BP:7:ARG:HD3	2.36	0.54
45:BN:43:THR:HB	45:BN:46:VAL:CG1	2.34	0.54
47:BP:17:LYS:O	47:BP:19:VAL:N	2.41	0.54
48:BQ:27:VAL:HG12	48:BQ:28:ALA:N	2.23	0.54
48:BQ:27:VAL:HG13	48:BQ:105:GLU:CD	2.33	0.54
52:BU:5:LYS:O	52:BU:6:THR:C	2.50	0.54
56:BY:2:ARG:HA	56:BY:5:MET:HE2	1.89	0.54
57:BZ:112:ARG:HD3	57:BZ:112:ARG:O	2.08	0.54
1:CA:639:G:O2'	1:CA:640:A:H5'	2.07	0.54
1:CA:646:U:H2'	1:CA:647:C:C6	2.43	0.54
1:CA:779:C:O2'	1:CA:780:A:H5'	2.07	0.54
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.43	0.54
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.42	0.54
1:CA:1339:A:H2	22:CV:33:G:O4'	1.90	0.54
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.43	0.54
1:CA:1462:G:O2'	1:CA:1463:C:H5'	2.07	0.54
2:CB:18:GLY:N	2:CB:42:ILE:HG22	2.20	0.54
4:CD:145:GLU:HG2	4:CD:184:LYS:HG2	1.90	0.54
6:CF:99:ALA:HB2	18:CR:31:LEU:HD22	1.89	0.54
10:CJ:80:LYS:HB3	10:CJ:80:LYS:HZ3	1.73	0.54
12:CL:38:THR:O	12:CL:79:GLU:HG2	2.07	0.54
17:CQ:80:GLY:O	17:CQ:81:ARG:HD2	2.08	0.54
18:CR:85:LEU:HD23	18:CR:88:LYS:HG2	1.89	0.54
19:CS:29:ARG:N	19:CS:29:ARG:HD2	2.22	0.54
22:CV:9:A:C6	22:CV:48:G:C2	2.96	0.54
31:D6:30:THR:O	31:D6:32:ASN:N	2.41	0.54
31:D6:48:VAL:HG23	31:D6:49:HIS:N	2.21	0.54
35:DA:852:G:O2'	35:DA:853:G:H5'	2.07	0.54
35:DA:941:A:H2'	35:DA:942:G:C8	2.42	0.54
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.37	0.54
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:8:GLN:HG2	40:DF:126:VAL:HG12	1.89	0.54
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.06	0.54
47:DP:101:VAL:CG2	47:DP:102:ARG:N	2.71	0.54
49:DR:96:ARG:HB2	49:DR:117:VAL:HG22	1.90	0.54
50:DS:97:ARG:NE	50:DS:97:ARG:C	2.65	0.54
51:DT:31:SER:C	51:DT:32:TYR:CD2	2.86	0.54
56:DY:32:PRO:O	56:DY:33:LYS:C	2.49	0.54
56:DY:44:ILE:N	56:DY:62:GLU:OE1	2.40	0.54
57:DZ:165:VAL:HG11	57:DZ:169:GLU:HB2	1.88	0.54
1:AA:383:A:H2'	1:AA:384:G:C5'	2.36	0.54
1:AA:612:C:O2'	1:AA:613:C:H5'	2.08	0.54
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.43	0.54
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.23	0.54
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.30	0.54
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.73	0.54
9:AI:102:LEU:HD23	9:AI:102:LEU:C	2.32	0.54
11:AK:54:ARG:NH1	23:AW:42:C:OP1	2.40	0.54
22:AV:5:C:C6	22:AV:6:C:H5	2.25	0.54
22:AV:12:U:C4	22:AV:13:U:C5	2.95	0.54
22:AV:56:U:O2'	22:AV:57:U:H5'	2.07	0.54
23:AW:69:G:N2	23:AW:70:G:C4	2.76	0.54
25:B0:47:PRO:HB3	25:B0:51:VAL:O	2.07	0.54
25:B0:50:ASN:HB3	25:B0:63:VAL:HG22	1.89	0.54
27:B2:64:LEU:O	27:B2:68:ARG:HG2	2.07	0.54
35:BA:792:G:H5"	35:BA:793:A:H5'	1.90	0.54
35:BA:2777:G:H5"	35:BA:2778:A:H5"	1.90	0.54
40:BF:125:LEU:HD13	40:BF:199:TRP:CG	2.42	0.54
48:BQ:30:GLY:CA	48:BQ:107:ALA:HB2	2.38	0.54
51:BT:27:THR:HA	51:BT:87:ASP:HB2	1.90	0.54
56:BY:80:GLY:O	56:BY:81:LYS:HB3	2.08	0.54
1:CA:109:A:H2'	1:CA:326:G:N2	2.22	0.54
1:CA:1051:C:H2'	1:CA:1052:U:H6	1.67	0.54
1:CA:1220:G:O2'	1:CA:1221:G:H5'	2.07	0.54
3:CC:11:ARG:O	3:CC:12:LEU:C	2.51	0.54
5:CE:33:VAL:CG2	5:CE:109:ILE:HG12	2.38	0.54
5:CE:109:ILE:O	5:CE:113:ALA:HB2	2.07	0.54
10:CJ:80:LYS:O	10:CJ:83:GLU:HB3	2.08	0.54
14:CN:29:ARG:HH12	14:CN:31:ARG:HB2	1.72	0.54
23:CW:34:C:O2	23:CW:34:C:C2'	2.54	0.54
23:CW:64:C:O5'	23:CW:64:C:H6	1.91	0.54
23:CW:72:C:H2'	23:CW:73:C:C1'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:23:LYS:HD2	26:D1:28:GLY:CA	2.30	0.54
29:D4:14:ILE:HD12	29:D4:14:ILE:N	2.23	0.54
29:D4:22:ILE:HD12	29:D4:22:ILE:H	1.71	0.54
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.32	0.54
33:D8:60:LEU:O	33:D8:63:PRO:HG2	2.07	0.54
35:DA:271(G):C:O2'	35:DA:271(H):G:H5'	2.08	0.54
35:DA:272(E):G:C2	35:DA:364:C:N3	2.75	0.54
35:DA:1187:G:H5"	53:DV:81:TYR:CE1	2.43	0.54
35:DA:2141:G:H2'	35:DA:2142:C:C6	2.43	0.54
40:DF:31:HIS:O	40:DF:34:TRP:HB3	2.08	0.54
41:DG:35:GLU:OE1	41:DG:160:VAL:HG11	2.07	0.54
42:DH:97:ARG:HG2	42:DH:98:LEU:N	2.21	0.54
45:DN:2:LYS:NZ	53:DV:12:TYR:HA	2.22	0.54
47:DP:97:PRO:HD3	47:DP:126:VAL:O	2.08	0.54
52:DU:95:LEU:CD1	53:DV:11:GLN:HB2	2.38	0.54
57:DZ:104:PHE:CD1	57:DZ:139:VAL:HB	2.32	0.54
57:DZ:109:ALA:C	57:DZ:145:GLU:HA	2.33	0.54
57:DZ:185:GLU:HG2	57:DZ:185:GLU:O	2.06	0.54
1:AA:127:G:N2	17:AQ:61:GLU:OE2	2.40	0.54
1:AA:1054:C:HO2'	1:AA:1055:A:P	2.30	0.54
1:AA:1408:A:O3'	35:BA:1916:A:N1	2.41	0.54
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.35	0.54
3:AC:154:SER:O	3:AC:165:THR:HA	2.07	0.54
4:AD:18:LYS:CB	4:AD:33:MET:HG2	2.38	0.54
5:AE:12:LEU:HD13	5:AE:12:LEU:O	2.08	0.54
6:AF:28:ARG:HG3	6:AF:28:ARG:NH1	2.22	0.54
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	2.08	0.54
13:AM:65:LYS:HB3	29:B4:44:THR:HG21	1.88	0.54
13:AM:86:CYS:C	13:AM:88:ARG:H	2.16	0.54
20:AT:38:LYS:HA	20:AT:41:ILE:HD11	1.88	0.54
23:AW:73:C:C3'	23:AW:74:C:C5'	2.84	0.54
27:B2:18:PRO:O	27:B2:22:GLU:HG3	2.08	0.54
31:B6:11:LEU:HG	31:B6:51:GLU:HG3	1.89	0.54
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.33	0.54
35:BA:34:C:N4	35:BA:455:C:H5'	2.22	0.54
35:BA:107:C:H2'	35:BA:108:U:H6	1.72	0.54
35:BA:143:G:H1'	55:BX:37:THR:HG21	1.90	0.54
35:BA:1542:A:C8	35:BA:1542:A:C3'	2.90	0.54
35:BA:2361:A:C2'	35:BA:2362:G:H5'	2.37	0.54
35:BA:2562:U:H2'	35:BA:2563:U:H5'	1.90	0.54
35:BA:2639:A:H2'	35:BA:2640:G:H5'	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.43	0.54
38:BD:25:THR:HG22	38:BD:26:LYS:HD3	1.89	0.54
39:BE:24:THR:HG21	39:BE:188:VAL:CG1	2.37	0.54
43:BI:14:ASP:O	43:BI:15:VAL:O	2.26	0.54
45:BN:73:THR:CG2	45:BN:82:LEU:HD11	2.38	0.54
47:BP:59:LEU:CA	47:BP:61:ARG:CZ	2.73	0.54
49:BR:2:ARG:CD	49:BR:5:LYS:HE2	2.36	0.54
49:BR:85:PRO:O	49:BR:87:TYR:N	2.40	0.54
51:BT:125:ARG:C	51:BT:127:ALA:H	2.15	0.54
56:BY:42:VAL:CG1	56:BY:65:ALA:HB3	2.37	0.54
1:CA:348:G:O2'	1:CA:349:A:H5'	2.08	0.54
1:CA:542:G:H2'	1:CA:543:C:C6	2.42	0.54
1:CA:963:G:N3	10:CJ:55:LYS:NZ	2.55	0.54
4:CD:157:LEU:CG	4:CD:161:ASN:HD21	2.21	0.54
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.08	0.54
7:CG:26:PHE:O	7:CG:30:ILE:HG12	2.08	0.54
13:CM:86:CYS:C	13:CM:88:ARG:H	2.15	0.54
19:CS:29:ARG:O	19:CS:30:LEU:C	2.50	0.54
20:CT:33:ILE:O	20:CT:34:LYS:C	2.51	0.54
22:CV:71:G:H2'	22:CV:71:G:N3	2.21	0.54
29:D4:24:THR:HG21	41:DG:104:GLU:OE2	2.07	0.54
29:D4:34:GLU:HB3	41:DG:113:ARG:NH1	2.16	0.54
30:D5:54:GLY:CA	30:D5:55:ARG:HE	2.21	0.54
31:D6:41:PRO:HD2	31:D6:45:LYS:O	2.06	0.54
35:DA:71:A:C2	55:DX:31:HIS:HE1	2.26	0.54
35:DA:963:U:H2'	35:DA:964:C:C6	2.43	0.54
35:DA:1654:A:OP2	49:DR:3:HIS:HB2	2.08	0.54
35:DA:2472:G:H3'	35:DA:2475:C:H42	1.70	0.54
35:DA:2842:G:O2'	35:DA:2843:G:H5'	2.08	0.54
38:DD:142:VAL:HG21	38:DD:191:ALA:HB1	1.89	0.54
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.35	0.54
41:DG:48:GLU:O	41:DG:49:ASP:CB	2.55	0.54
41:DG:58:GLN:O	41:DG:61:ALA:HB3	2.08	0.54
42:DH:117:PRO:HB3	42:DH:123:PHE:CE2	2.43	0.54
43:DI:22:LYS:O	43:DI:23:PRO:C	2.51	0.54
45:DN:96:GLU:O	45:DN:100:GLU:HG3	2.07	0.54
45:DN:132:ALA:O	45:DN:133:GLN:HB3	2.08	0.54
49:DR:33:ARG:HG3	49:DR:115:GLU:HG3	1.89	0.54
49:DR:113:LEU:HD23	49:DR:113:LEU:C	2.33	0.54
52:DU:68:ALA:CB	52:DU:99:ALA:HB1	2.37	0.54
53:DV:46:VAL:HG13	53:DV:47:VAL:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:51:ALA:O	57:DZ:52:SER:CB	2.56	0.54
1:AA:311:C:HO2'	1:AA:312:C:H5'	1.73	0.54
1:AA:692:U:C5	11:AK:26:ASN:ND2	2.76	0.54
1:AA:975:A:H8	1:AA:975:A:H5'	1.71	0.54
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.26	0.54
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.43	0.54
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.72	0.54
1:AA:1452:C:H4'	1:AA:1456:G:O5'	2.08	0.54
2:AB:98:LEU:O	2:AB:101:MET:HG2	2.07	0.54
3:AC:11:ARG:O	3:AC:12:LEU:C	2.51	0.54
4:AD:128:VAL:CG1	4:AD:129:ASN:H	2.11	0.54
5:AE:10:MET:HA	5:AE:32:VAL:HG22	1.90	0.54
7:AG:66:VAL:O	7:AG:70:LYS:HG3	2.07	0.54
7:AG:79:ARG:HD3	7:AG:82:GLY:H	1.73	0.54
12:AL:119:LYS:C	12:AL:120:TYR:HD1	2.16	0.54
12:AL:120:TYR:N	12:AL:120:TYR:CD1	2.76	0.54
23:AW:20:G:C2	23:AW:59:G:C4	2.96	0.54
23:AW:30:U:C4	23:AW:31:C:C4	2.96	0.54
22:AY:69:G:C5	22:AY:70:G:N7	2.76	0.54
27:B2:2:LYS:HB3	35:BA:97:C:H5"	1.90	0.54
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	2.07	0.54
35:BA:7:G:H5'	45:BN:130:HIS:HD2	1.73	0.54
35:BA:680:G:H2'	35:BA:681:G:C8	2.42	0.54
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.08	0.54
35:BA:1915:U:C3'	35:BA:1916:A:C5'	2.68	0.54
35:BA:2308:G:O6	35:BA:2310:A:H2'	2.08	0.54
36:BB:23:G:H1	36:BB:60:C:H42	1.56	0.54
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	1.89	0.54
38:BD:121:PRO:HB3	38:BD:135:PHE:CE2	2.42	0.54
38:BD:148:GLU:HB2	38:BD:151:LYS:HD2	1.90	0.54
39:BE:51:PHE:H	39:BE:74:PRO:CB	2.20	0.54
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.76	0.54
43:BI:83:ALA:CA	43:BI:88:ILE:HG23	2.38	0.54
47:BP:123:LEU:HD12	47:BP:123:LEU:C	2.33	0.54
52:BU:92:ARG:NH1	53:BV:11:GLN:H	2.06	0.54
56:BY:2:ARG:CD	56:BY:3:VAL:HG23	2.37	0.54
57:BZ:19:ARG:NH1	57:BZ:84:GLU:O	2.41	0.54
1:CA:66:G:H4'	1:CA:173:U:C5	2.43	0.54
1:CA:403:C:H2'	1:CA:404:U:H6	1.73	0.54
1:CA:1296:C:H5'	1:CA:1297:C:OP2	2.08	0.54
1:CA:1442(B):A:C2	51:DT:118:ARG:NH2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:9:LYS:C	5:CE:32:VAL:HG13	2.32	0.54
11:CK:124:LYS:NZ	11:CK:124:LYS:HB3	2.23	0.54
12:CL:7:ILE:CG2	12:CL:8:ASN:N	2.70	0.54
12:CL:41:ARG:HD2	12:CL:41:ARG:C	2.33	0.54
12:CL:47:LYS:HD2	12:CL:47:LYS:C	2.33	0.54
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.20	0.54
23:CW:19:G:C5	23:CW:60:A:C6	2.96	0.54
22:CY:57:U:H2'	57:DZ:182:LYS:HZ2	1.71	0.54
27:D2:14:ARG:HA	27:D2:63:VAL:HG11	1.89	0.54
28:D3:19:GLN:NE2	28:D3:52:HIS:HE1	2.06	0.54
29:D4:8:LYS:O	29:D4:9:LEU:HB3	2.08	0.54
35:DA:247:G:H4'	35:DA:386:G:C5	2.43	0.54
35:DA:322:A:H5'	35:DA:340:A:C1'	2.38	0.54
35:DA:536:A:P	52:DU:53:ARG:HH11	2.31	0.54
35:DA:2415:G:H4'	47:DP:67:MET:H	1.71	0.54
35:DA:2807:G:H3'	35:DA:2808:U:H5"	1.88	0.54
37:DC:30:VAL:HG11	37:DC:42:VAL:CG2	2.38	0.54
37:DC:51:ASP:H	37:DC:57:GLN:NE2	2.06	0.54
40:DF:28:ILE:HD13	40:DF:28:ILE:N	2.22	0.54
41:DG:118:ARG:HH11	41:DG:118:ARG:CG	2.21	0.54
47:DP:59:LEU:HA	47:DP:61:ARG:NE	2.20	0.54
56:DY:2:ARG:O	56:DY:4:LYS:HG2	2.08	0.54
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.73	0.54
3:AC:119:ARG:NH2	3:AC:140:ARG:NH2	2.55	0.54
8:AH:14:ARG:O	8:AH:18:ARG:HD3	2.08	0.54
10:AJ:22:LYS:HD2	10:AJ:22:LYS:C	2.33	0.54
18:AR:63:GLN:HA	18:AR:63:GLN:OE1	2.07	0.54
19:AS:42:PRO:HG3	29:B4:50:VAL:HG21	1.88	0.54
22:AY:10:G:C4	22:AY:11:C:C5	2.96	0.54
35:BA:341:G:O2'	35:BA:342:G:H5'	2.08	0.54
35:BA:774:A:H2	35:BA:787:U:O2'	1.90	0.54
35:BA:1331:A:O2'	35:BA:1332:G:H8	1.91	0.54
35:BA:1509(A):A:H2'	35:BA:1509(B):A:C8	2.42	0.54
35:BA:2543:G:H2'	35:BA:2544:G:H8	1.71	0.54
35:BA:2579:C:H2'	35:BA:2580:U:O4'	2.07	0.54
35:BA:2815:C:H2'	35:BA:2816:C:H6	1.72	0.54
36:BB:31:C:N4	50:BS:32:LEU:HD13	2.23	0.54
38:BD:2:ALA:O	38:BD:3:VAL:HB	2.07	0.54
38:BD:25:THR:HG22	38:BD:26:LYS:CD	2.38	0.54
38:BD:31:LYS:C	38:BD:33:LEU:N	2.65	0.54
40:BF:187:VAL:HG12	47:BP:7:ARG:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:68:GLU:OE1	46:BO:78:ARG:NH1	2.41	0.54
48:BQ:51:ARG:HH21	48:BQ:52:VAL:HG23	1.73	0.54
49:BR:98:LEU:HB2	49:BR:113:LEU:CD2	2.37	0.54
56:BY:95:LYS:HD3	56:BY:100:ALA:CB	2.38	0.54
1:CA:25:C:O2'	1:CA:26:A:H5'	2.07	0.54
1:CA:59:A:H5'	1:CA:60:A:H5"	1.90	0.54
1:CA:824:C:H4'	8:CH:1:MET:H1	1.72	0.54
1:CA:1053:G:N7	1:CA:1199:U:H3'	2.22	0.54
1:CA:1084:G:H5'	1:CA:1102:A:OP2	2.08	0.54
1:CA:1305:G:C2	1:CA:1331:G:N3	2.76	0.54
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.08	0.54
2:CB:14:GLY:C	2:CB:15:VAL:HG22	2.33	0.54
2:CB:111:ARG:NH2	2:CB:114:ARG:HG2	2.23	0.54
4:CD:98:GLU:CG	4:CD:103:ASN:HD21	2.20	0.54
5:CE:144:THR:O	5:CE:148:VAL:HG23	2.08	0.54
5:CE:148:VAL:O	5:CE:150:ARG:N	2.41	0.54
18:CR:79:LEU:CD2	18:CR:80:PRO:HD2	2.38	0.54
23:CW:52:C:N3	23:CW:53:U:C4	2.76	0.54
25:D0:40:GLN:HE21	25:D0:43:THR:HA	1.73	0.54
26:D1:57:GLU:O	26:D1:58:ILE:O	2.26	0.54
26:D1:92:LYS:NZ	35:DA:153:C:OP1	2.38	0.54
33:D8:34:TRP:CG	33:D8:35:GLN:N	2.75	0.54
35:DA:158:U:H2'	35:DA:171:G:O5'	2.07	0.54
35:DA:1009:A:C4'	52:DU:59:ARG:HD3	2.37	0.54
35:DA:1494:A:O2'	35:DA:1496:A:C2	2.61	0.54
35:DA:1638:C:H4'	35:DA:2710:C:O2	2.08	0.54
38:DD:31:LYS:HB3	38:DD:34:VAL:HG22	1.89	0.54
38:DD:197:GLY:O	38:DD:198:ASN:HB3	2.08	0.54
40:DF:157:VAL:HA	40:DF:176:LEU:O	2.08	0.54
41:DG:114:ILE:HG22	41:DG:117:PHE:H	1.73	0.54
43:DI:109:ILE:HD12	43:DI:109:ILE:N	2.23	0.54
44:DJ:22:UNK:C	44:DJ:88:UNK:HA	2.38	0.54
44:DJ:56:UNK:CB	44:DJ:83:UNK:HA	2.38	0.54
49:DR:28:LEU:HA	49:DR:34:ILE:HG12	1.90	0.54
50:DS:51:ALA:HB3	50:DS:73:LEU:HB2	1.90	0.54
50:DS:70:GLY:CA	50:DS:101:LEU:HD23	2.36	0.54
53:DV:59:ALA:HB2	53:DV:96:ILE:HD13	1.90	0.54
56:DY:28:LYS:O	56:DY:29:GLU:C	2.51	0.54
1:AA:990:C:H2'	1:AA:991:U:C6	2.41	0.53
1:AA:1072:G:H2'	1:AA:1073:U:O4'	2.07	0.53
1:AA:1220:G:O2'	1:AA:1221:G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.23	0.53
3:AC:90:GLU:HA	3:AC:93:LYS:HB2	1.89	0.53
3:AC:134:ILE:O	3:AC:138:VAL:HG23	2.09	0.53
19:AS:16:LEU:O	19:AS:20:LEU:HG	2.07	0.53
22:AV:1:G:H1'	25:B0:5:LYS:CE	2.39	0.53
22:AV:5:C:C2	22:AV:71:G:C2	2.96	0.53
22:AV:43:G:N1	22:AV:44:A:C4	2.76	0.53
26:B1:51:VAL:O	26:B1:58:ILE:HG12	2.08	0.53
29:B4:22:ILE:HD12	29:B4:22:ILE:H	1.73	0.53
30:B5:2:ALA:N	35:BA:2014:A:HO2'	2.06	0.53
30:B5:20:ARG:HA	30:B5:23:HIS:CE1	2.43	0.53
35:BA:146:G:H5'	35:BA:146:G:H8	1.74	0.53
35:BA:225:A:C2'	35:BA:226:G:H5'	2.38	0.53
35:BA:394:A:O2'	35:BA:395:U:H5'	2.07	0.53
35:BA:643:A:O2'	35:BA:644:A:H5'	2.09	0.53
35:BA:1486:A:N6	35:BA:1504:C:H42	2.06	0.53
35:BA:1693:U:O2'	38:BD:14:ARG:NH2	2.41	0.53
35:BA:2464:C:O2'	35:BA:2465:C:P	2.67	0.53
36:BB:92:C:H5"	57:BZ:79:ARG:NH2	2.23	0.53
38:BD:94:LEU:HB2	38:BD:104:TYR:HE1	1.73	0.53
39:BE:68:ALA:C	39:BE:70:ALA:H	2.15	0.53
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.72	0.53
41:BG:95:ARG:HH11	41:BG:95:ARG:HG2	1.73	0.53
41:BG:114:ILE:CG2	41:BG:117:PHE:HB2	2.38	0.53
43:BI:88:ILE:CG2	43:BI:89:TYR:N	2.70	0.53
46:BO:20:MET:HE3	46:BO:44:LYS:HE3	1.89	0.53
48:BQ:30:GLY:HA2	48:BQ:107:ALA:HB2	1.89	0.53
51:BT:3:ARG:C	51:BT:5:ALA:H	2.16	0.53
51:BT:70:VAL:HG12	51:BT:71:GLY:H	1.73	0.53
53:BV:38:LEU:HD23	53:BV:39:LEU:N	2.23	0.53
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.36	0.53
1:CA:1502:A:C2	1:CA:1505:G:N2	2.69	0.53
2:CB:36:ARG:O	2:CB:41:ILE:HD11	2.08	0.53
2:CB:140:HIS:O	2:CB:143:GLU:HG2	2.07	0.53
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.74	0.53
6:CF:16:GLN:CD	6:CF:16:GLN:H	2.16	0.53
8:CH:109:ILE:CG2	8:CH:137:VAL:HB	2.38	0.53
9:CI:28:VAL:HG13	9:CI:63:ILE:C	2.33	0.53
9:CI:85:LEU:HD13	9:CI:92:TYR:CD2	2.43	0.53
9:CI:102:LEU:C	9:CI:102:LEU:HD23	2.34	0.53
13:CM:88:ARG:HG2	13:CM:88:ARG:NH1	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:55:ARG:C	16:CP:57:ARG:H	2.16	0.53
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.23	0.53
22:CV:23:A:O3'	22:CV:24:A:H8	1.91	0.53
23:CW:39:A:C6	23:CW:41:C:OP1	2.61	0.53
23:CW:42:C:C5	23:CW:43:G:C8	2.95	0.53
23:CW:59:G:O2'	23:CW:60:A:H5'	2.08	0.53
25:D0:36:ILE:HD13	25:D0:58:THR:HG23	1.89	0.53
35:DA:914:C:H2'	35:DA:915:C:C5'	2.31	0.53
35:DA:991:C:H6	35:DA:991:C:C5'	2.16	0.53
35:DA:1603:A:H5'	35:DA:1603:A:C8	2.44	0.53
39:DE:75:VAL:O	39:DE:77:ILE:N	2.35	0.53
39:DE:80:GLU:O	39:DE:81:ILE:HD13	2.08	0.53
40:DF:206:ILE:HG22	40:DF:207:GLY:N	2.23	0.53
41:DG:28:VAL:HG12	41:DG:28:VAL:O	2.07	0.53
41:DG:43:LEU:HD11	41:DG:153:ARG:HB3	1.90	0.53
41:DG:87:PRO:O	41:DG:88:ILE:HD13	2.09	0.53
42:DH:121:ILE:CD1	42:DH:144:VAL:HG21	2.38	0.53
45:DN:123:TYR:OH	45:DN:130:HIS:CE1	2.61	0.53
47:DP:16:ARG:HD3	47:DP:18:ARG:N	2.17	0.53
47:DP:102:ARG:HH11	47:DP:102:ARG:CB	2.22	0.53
47:DP:102:ARG:O	47:DP:103:ALA:HB2	2.07	0.53
48:DQ:16:ARG:HG2	48:DQ:17:LEU:N	2.22	0.53
1:AA:197:A:N7	1:AA:221:C:H4'	2.23	0.53
1:AA:1091:U:H2'	1:AA:1093:A:OP2	2.07	0.53
1:AA:1228:C:H5'	13:AM:108:ARG:NH2	2.23	0.53
4:AD:13:ARG:O	4:AD:14:ARG:C	2.52	0.53
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.43	0.53
8:AH:20:TYR:HA	8:AH:65:TYR:HE2	1.73	0.53
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.91	0.53
10:AJ:80:LYS:O	10:AJ:83:GLU:HB3	2.08	0.53
12:AL:69:TYR:CE2	12:AL:71:PRO:HA	2.44	0.53
17:AQ:98:LEU:HD12	17:AQ:98:LEU:N	2.23	0.53
22:AV:19:G:C6	22:AV:59:G:C6	2.95	0.53
23:AW:43:G:C2	23:AW:44:A:C4	2.96	0.53
26:B1:12:PRO:HB3	26:B1:43:TYR:CD1	2.43	0.53
27:B2:21:LEU:HD12	27:B2:64:LEU:HD23	1.90	0.53
29:B4:14:ILE:HG23	29:B4:31:ILE:HG22	1.89	0.53
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.61	0.53
35:BA:692:C:H2'	35:BA:693:C:C6	2.43	0.53
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.90	0.53
35:BA:2720:U:O2	35:BA:2720:U:H2'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:92:C:H5”	57:BZ:79:ARG:HH22	1.73	0.53
39:BE:69:LYS:C	39:BE:71:GLY:H	2.15	0.53
41:BG:131:TYR:HE2	41:BG:133:LEU:HD23	1.73	0.53
45:BN:2:LYS:NZ	53:BV:12:TYR:HA	2.23	0.53
45:BN:133:GLN:CG	45:BN:135:PRO:HD3	2.33	0.53
47:BP:33:ARG:O	47:BP:35:HIS:O	2.27	0.53
47:BP:112:LEU:HD13	47:BP:113:LYS:N	2.23	0.53
47:BP:124:LYS:HD3	47:BP:143:GLY:HA3	1.89	0.53
56:BY:88:LYS:CE	56:BY:93:GLY:HA3	2.38	0.53
1:CA:376:G:OP1	16:CP:6:LEU:HB2	2.09	0.53
1:CA:523:A:H61	12:CL:92:ASP:HB2	1.72	0.53
1:CA:532:A:N6	3:CC:193:TYR:HB3	2.22	0.53
1:CA:1128:C:O2’	1:CA:1130:A:C8	2.59	0.53
2:CB:55:PHE:CD1	2:CB:58:ILE:HD12	2.43	0.53
3:CC:162:GLN:CG	24:CX:24:A:O4’	2.56	0.53
4:CD:8:VAL:HG23	4:CD:9:CYS:H	1.72	0.53
10:CJ:8:LEU:C	10:CJ:16:LEU:HD21	2.34	0.53
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.50	0.53
10:CJ:82:ILE:CG2	10:CJ:86:MET:HE2	2.38	0.53
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.07	0.53
13:CM:3:ARG:HH22	41:DG:113:ARG:N	2.06	0.53
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.23	0.53
18:CR:36:ASN:HB3	18:CR:39:VAL:HG21	1.89	0.53
19:CS:64:GLU:HG3	19:CS:65:ASN:H	1.71	0.53
20:CT:10:LEU:HD12	20:CT:11:SER:H	1.73	0.53
22:CV:14:A:C2	22:CV:15:G:H1’	2.43	0.53
23:CW:9:A:N3	23:CW:47:G:H2’	2.24	0.53
23:CW:69:G:N1	23:CW:70:G:C5	2.75	0.53
26:D1:62:VAL:HG22	26:D1:63:ALA:N	2.23	0.53
35:DA:469:G:O2’	35:DA:470:A:H5”	2.08	0.53
38:DD:155:LEU:HD23	38:DD:177:LEU:CD2	2.39	0.53
39:DE:13:ARG:HD2	39:DE:20:ALA:HB1	1.88	0.53
40:DF:133:ASN:N	40:DF:133:ASN:ND2	2.56	0.53
41:DG:133:LEU:C	41:DG:133:LEU:HD12	2.33	0.53
42:DH:24:VAL:HG13	42:DH:35:VAL:HB	1.89	0.53
42:DH:74:ASN:OD1	42:DH:138:LYS:HE3	2.08	0.53
45:DN:71:ILE:HG21	45:DN:84:LYS:HB3	1.89	0.53
45:DN:126:PRO:O	45:DN:127:ASP:CB	2.56	0.53
56:DY:95:LYS:HD3	56:DY:100:ALA:CB	2.39	0.53
56:DY:95:LYS:HD3	56:DY:100:ALA:HA	1.90	0.53
57:DZ:57:ILE:HG22	57:DZ:58:VAL:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:108:PRO:CG	57:DZ:111:VAL:HG23	2.38	0.53
1:AA:59:A:H5'	1:AA:60:A:H5"	1.91	0.53
1:AA:336:C:O2'	1:AA:337:C:H5'	2.07	0.53
1:AA:358:U:H2'	1:AA:359:U:C6	2.43	0.53
1:AA:1090:U:O2'	1:AA:1091:U:H5'	2.09	0.53
1:AA:1239:A:H62	1:AA:1299:A:H62	1.57	0.53
1:AA:1279:A:H2	10:AJ:43:ARG:HH22	1.56	0.53
1:AA:1347:G:HO2'	1:AA:1373:G:H1	1.55	0.53
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	1.90	0.53
4:AD:24:GLU:CD	4:AD:24:GLU:C	2.75	0.53
5:AE:148:VAL:O	5:AE:150:ARG:N	2.41	0.53
12:AL:58:VAL:N	12:AL:65:GLU:HG3	2.24	0.53
12:AL:92:ASP:O	12:AL:93:LEU:HD23	2.07	0.53
19:AS:18:LYS:O	19:AS:22:LEU:HB2	2.08	0.53
23:AW:19:G:C5	23:AW:60:A:C6	2.96	0.53
22:AY:1:G:H2'	22:AY:2:G:H8	1.73	0.53
22:AY:56:U:C2	57:BZ:183:LEU:HB2	2.43	0.53
33:B8:33:ASN:O	33:B8:34:TRP:CB	2.57	0.53
35:BA:1541:G:H4'	35:BA:1542:A:H5"	1.88	0.53
35:BA:1568:G:H21	38:BD:58:HIS:CE1	2.26	0.53
35:BA:1590:U:H2'	35:BA:1591:G:C5'	2.19	0.53
35:BA:1818:U:H2'	38:BD:157:ARG:HG3	1.89	0.53
45:BN:48:MET:HE3	45:BN:48:MET:N	2.22	0.53
49:BR:21:TYR:OH	49:BR:43:GLU:HG2	2.07	0.53
50:BS:54:LEU:C	50:BS:56:LEU:H	2.14	0.53
51:BT:27:THR:O	51:BT:28:VAL:CB	2.56	0.53
52:BU:98:LEU:O	52:BU:99:ALA:C	2.52	0.53
56:BY:95:LYS:CG	56:BY:101:LYS:H	2.21	0.53
57:BZ:138:GLU:O	57:BZ:155:LEU:HB2	2.08	0.53
1:CA:154:C:N4	1:CA:167:G:H1	2.06	0.53
1:CA:706:A:N7	1:CA:707:C:H5	2.06	0.53
2:CB:85:ALA:HB1	2:CB:92:TYR:CD1	2.43	0.53
2:CB:142:LEU:HA	2:CB:145:LEU:HB2	1.88	0.53
3:CC:134:ILE:O	3:CC:138:VAL:HG23	2.09	0.53
4:CD:129:ASN:H	4:CD:129:ASN:HD22	1.54	0.53
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	2.13	0.53
12:CL:43:VAL:CG1	12:CL:55:VAL:HG21	2.39	0.53
12:CL:90:VAL:C	12:CL:92:ASP:N	2.66	0.53
13:CM:6:GLY:C	13:CM:8:GLU:N	2.66	0.53
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.74	0.53
18:CR:79:LEU:HD23	18:CR:80:PRO:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:27:C:H6	22:CV:27:C:H3'	1.74	0.53
23:CW:19:G:C6	23:CW:59:G:C6	2.96	0.53
23:CW:25:A:C3'	23:CW:26:G:C8	2.90	0.53
22:CY:27:C:H2'	22:CY:28:G:C8	2.42	0.53
33:D8:47:LYS:HD2	33:D8:48:PHE:N	2.23	0.53
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.08	0.53
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.43	0.53
36:DB:6:C:H42	36:DB:115:G:H1	1.56	0.53
36:DB:23:G:H1	36:DB:60:C:H42	1.55	0.53
37:DC:186:LEU:O	37:DC:190:ILE:HG12	2.08	0.53
38:DD:75:ILE:O	38:DD:118:VAL:HG23	2.09	0.53
38:DD:121:PRO:HB3	38:DD:135:PHE:CE2	2.41	0.53
38:DD:127:VAL:HA	38:DD:193:VAL:HG13	1.91	0.53
39:DE:104:VAL:HG11	39:DE:188:VAL:CG2	2.39	0.53
41:DG:34:LEU:HD11	41:DG:172:LEU:HD21	1.89	0.53
41:DG:118:ARG:O	41:DG:118:ARG:HG2	2.08	0.53
42:DH:84:SER:O	42:DH:85:LYS:HB2	2.08	0.53
46:DO:20:MET:HE3	46:DO:44:LYS:HE3	1.89	0.53
47:DP:146:VAL:CG2	47:DP:147:LEU:N	2.66	0.53
50:DS:92:TYR:CG	50:DS:93:LYS:N	2.75	0.53
53:DV:39:LEU:HA	53:DV:47:VAL:HG13	1.90	0.53
56:DY:31:LEU:HB2	56:DY:32:PRO:CA	2.37	0.53
1:AA:301:G:H2'	1:AA:302:G:H8	1.72	0.53
1:AA:430:A:OP2	4:AD:8:VAL:HG22	2.09	0.53
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.73	0.53
4:AD:168:ARG:HH11	4:AD:168:ARG:HG3	1.73	0.53
10:AJ:21:GLN:HG2	10:AJ:25:GLU:OE2	2.09	0.53
15:AO:33:THR:HG21	15:AO:85:LEU:CD2	2.36	0.53
16:AP:55:ARG:C	16:AP:57:ARG:N	2.64	0.53
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.19	0.53
22:AV:29:A:C6	22:AV:30:U:O4	2.62	0.53
22:AY:20:G:C3'	22:AY:21:U:C5'	2.82	0.53
22:AY:27:C:H2'	22:AY:28:G:O4'	2.08	0.53
27:B2:64:LEU:HD11	27:B2:68:ARG:HH12	1.73	0.53
35:BA:271(G):C:O2'	35:BA:271(H):G:H5'	2.08	0.53
35:BA:271(M):G:C2'	35:BA:271(N):U:H5"	2.33	0.53
35:BA:654(S):G:O5'	35:BA:654(T):C:H5"	2.09	0.53
35:BA:847:U:OP2	35:BA:928:G:O6	2.26	0.53
35:BA:962:G:O2'	35:BA:963:U:H5'	2.08	0.53
35:BA:1009:A:H5'	52:BU:59:ARG:HD3	1.90	0.53
35:BA:2123:G:H2'	35:BA:2124:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:112:GLN:O	38:BD:115:GLN:HB3	2.09	0.53
38:BD:244:ARG:HG2	38:BD:245:PRO:HB3	1.90	0.53
39:BE:65:GLY:O	39:BE:67:PHE:N	2.41	0.53
39:BE:117:MET:CE	39:BE:124:GLY:HA3	2.37	0.53
41:BG:118:ARG:HB3	41:BG:181:ARG:CZ	2.38	0.53
43:BI:9:LEU:HB2	43:BI:12:LEU:O	2.08	0.53
48:BQ:16:ARG:HG2	48:BQ:17:LEU:N	2.23	0.53
49:BR:4:LEU:O	49:BR:5:LYS:HG2	2.08	0.53
49:BR:28:LEU:HA	49:BR:34:ILE:HG12	1.88	0.53
53:BV:1:MET:O	53:BV:2:PHE:HB2	2.08	0.53
54:BW:47:VAL:HA	54:BW:50:VAL:CG1	2.38	0.53
2:CB:116:GLU:HA	2:CB:119:GLU:HB3	1.91	0.53
3:CC:148:GLY:HA3	3:CC:172:ARG:O	2.09	0.53
7:CG:20:ASP:C	7:CG:22:LEU:H	2.17	0.53
12:CL:66:VAL:HG12	12:CL:67:THR:N	2.19	0.53
15:CO:64:ARG:O	15:CO:65:ARG:C	2.51	0.53
17:CQ:24:GLU:HG2	17:CQ:39:SER:HB3	1.91	0.53
23:CW:12:U:H6	23:CW:12:U:OP2	1.92	0.53
22:CY:20:G:C3'	22:CY:21:U:H5'	2.24	0.53
25:D0:14:ARG:HH11	25:D0:14:ARG:CG	2.22	0.53
25:D0:51:VAL:CG2	25:D0:81:VAL:HG23	2.38	0.53
26:D1:41:ARG:NH1	35:DA:1365:A:OP1	2.42	0.53
31:D6:16:CYS:O	31:D6:17:LYS:HB2	2.09	0.53
33:D8:33:ASN:O	33:D8:34:TRP:CB	2.56	0.53
35:DA:271(M):G:C2'	35:DA:271(N):U:H5"	2.34	0.53
35:DA:319:C:O2'	35:DA:320:A:H5'	2.09	0.53
35:DA:866:A:H2'	35:DA:866:A:N3	2.23	0.53
35:DA:1286:A:C2'	35:DA:1288:U:OP2	2.56	0.53
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.08	0.53
35:DA:1539:G:C2	35:DA:1540:U:H1'	2.43	0.53
38:DD:231:HIS:ND1	38:DD:232:PRO:HD2	2.22	0.53
40:DF:65:TRP:CZ3	40:DF:73:ALA:O	2.61	0.53
41:DG:72:ARG:HA	41:DG:87:PRO:CG	2.39	0.53
43:DI:110:ASP:CB	43:DI:113:ARG:HB2	2.39	0.53
46:DO:64:ARG:NH1	51:DT:70:VAL:CG2	2.71	0.53
48:DQ:31:ASP:O	48:DQ:133:ARG:O	2.27	0.53
49:DR:4:LEU:O	49:DR:5:LYS:HG2	2.08	0.53
49:DR:13:HIS:HE1	49:DR:15:SER:HB3	1.74	0.53
49:DR:103:ARG:HD2	54:DW:40:ASN:ND2	2.23	0.53
50:DS:66:ALA:HA	50:DS:69:VAL:HG12	1.91	0.53
56:DY:68:HIS:ND1	56:DY:70:SER:HB3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:G:H2'	1:AA:543:C:C6	2.43	0.53
1:AA:1122:U:H2'	1:AA:1123:A:H8	1.74	0.53
2:AB:74:LYS:HG3	2:AB:74:LYS:O	2.09	0.53
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.07	0.53
13:AM:86:CYS:SG	13:AM:88:ARG:HB2	2.49	0.53
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.42	0.53
22:AV:53:U:H2'	22:AV:54:G:H8	1.72	0.53
22:AY:55:G:H2'	22:AY:56:U:H1'	1.90	0.53
25:B0:27:GLU:OE2	35:BA:856:C:H4'	2.08	0.53
27:B2:21:LEU:CD1	27:B2:64:LEU:HA	2.39	0.53
27:B2:55:ARG:HH11	27:B2:55:ARG:CG	2.20	0.53
28:B3:19:GLN:NE2	28:B3:52:HIS:HE1	2.06	0.53
29:B4:42:PHE:HB2	29:B4:43:TYR:HD1	1.74	0.53
35:BA:276:A:OP1	35:BA:278:A:H1'	2.09	0.53
35:BA:1286:A:C2'	35:BA:1288:U:OP2	2.57	0.53
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.08	0.53
35:BA:1532:C:C2'	35:BA:1533:G:H5'	2.39	0.53
35:BA:1654:A:OP2	49:BR:3:HIS:HB2	2.07	0.53
35:BA:1860:G:H1	35:BA:1882:C:H42	1.57	0.53
35:BA:2193:G:H2'	35:BA:2194:G:H8	1.74	0.53
35:BA:2405:G:O2'	35:BA:2406:U:OP2	2.25	0.53
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.56	0.53
41:BG:125:PHE:CD2	41:BG:131:TYR:HB2	2.43	0.53
42:BH:127:GLU:HG3	42:BH:130:ARG:HE	1.72	0.53
47:BP:61:ARG:HD2	47:BP:61:ARG:N	2.22	0.53
47:BP:83:VAL:HG23	47:BP:105:LEU:HD13	1.91	0.53
47:BP:102:ARG:O	47:BP:103:ALA:HB2	2.08	0.53
57:BZ:33:LEU:HG	57:BZ:34:ASN:N	2.22	0.53
1:CA:222:U:H2'	1:CA:223:U:C6	2.42	0.53
1:CA:434:U:H2'	1:CA:435:C:H6	1.71	0.53
1:CA:1106:G:OP1	3:CC:172:ARG:HD3	2.08	0.53
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.44	0.53
2:CB:121:LEU:HD22	2:CB:126:GLU:HB2	1.89	0.53
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	2.07	0.53
11:CK:85:ARG:HG2	11:CK:111:ASP:O	2.08	0.53
12:CL:36:VAL:N	12:CL:58:VAL:CG1	2.68	0.53
12:CL:76:ASN:OD1	12:CL:107:ALA:HA	2.07	0.53
23:CW:3:G:H1	23:CW:73:C:N4	2.07	0.53
23:CW:30:U:C4	23:CW:31:C:N4	2.76	0.53
23:CW:40:A:H2'	23:CW:41:C:H5	1.68	0.53
22:CY:9:A:C6	22:CY:47:G:C6	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:105:C:O2'	56:DY:2:ARG:HG3	2.08	0.53
35:DA:118:A:OP2	35:DA:119:A:H5"	2.08	0.53
35:DA:712:G:O2'	35:DA:713:G:H5'	2.08	0.53
35:DA:738:G:O2'	35:DA:739:G:H5'	2.08	0.53
35:DA:994:C:H3'	52:DU:54:LYS:HE3	1.91	0.53
35:DA:2477:C:H5'	35:DA:2477:C:C6	2.43	0.53
38:DD:11:PRO:O	38:DD:12:SER:C	2.51	0.53
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.73	0.53
43:DI:14:ASP:O	43:DI:15:VAL:O	2.26	0.53
46:DO:23:ARG:HG3	46:DO:24:VAL:N	2.22	0.53
46:DO:68:GLU:OE1	46:DO:78:ARG:NH1	2.42	0.53
51:DT:27:THR:HA	51:DT:87:ASP:HB2	1.90	0.53
56:DY:95:LYS:HE2	56:DY:101:LYS:H	1.72	0.53
1:AA:25:C:O2'	1:AA:26:A:H5'	2.09	0.53
1:AA:427:U:C3'	1:AA:428:G:H5"	2.35	0.53
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.41	0.53
10:AJ:8:LEU:C	10:AJ:16:LEU:HD21	2.33	0.53
12:AL:37:CYS:O	12:AL:38:THR:C	2.52	0.53
13:AM:99:ARG:O	13:AM:101:GLN:HG3	2.08	0.53
22:AY:5:C:O2	22:AY:70:G:N1	2.41	0.53
22:AY:32:G:C6	22:AY:43:G:C6	2.97	0.53
35:BA:237:C:O2'	35:BA:238:C:H5'	2.08	0.53
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.44	0.53
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.34	0.53
40:BF:101:LEU:HD12	40:BF:102:PRO:CD	2.37	0.53
40:BF:122:LYS:HE2	40:BF:122:LYS:CA	2.39	0.53
43:BI:62:LYS:HE3	43:BI:133:HIS:O	2.08	0.53
45:BN:28:THR:HG22	45:BN:29:LYS:N	2.24	0.53
46:BO:23:ARG:HG3	46:BO:24:VAL:N	2.22	0.53
47:BP:84:ASN:C	47:BP:86:LYS:N	2.67	0.53
47:BP:107:LYS:C	47:BP:109:GLY:N	2.67	0.53
47:BP:124:LYS:HD3	47:BP:143:GLY:CA	2.38	0.53
49:BR:13:HIS:HE1	49:BR:15:SER:HB3	1.73	0.53
49:BR:56:LYS:C	49:BR:58:GLY:H	2.16	0.53
57:BZ:80:ARG:NH1	57:BZ:80:ARG:HB3	2.24	0.53
57:BZ:119:GLU:O	57:BZ:122:ARG:NH1	2.42	0.53
1:CA:7:G:H5'	1:CA:298:A:H5'	1.91	0.53
1:CA:359:U:H2'	1:CA:360:A:H8	1.73	0.53
1:CA:373:A:O2'	1:CA:374:A:H5'	2.08	0.53
1:CA:1228:C:H5'	13:CM:108:ARG:NH2	2.24	0.53
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:24:ALA:HB2	3:CC:32:LEU:HD12	1.91	0.53
4:CD:135:LEU:O	4:CD:137:SER:N	2.40	0.53
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.08	0.53
9:CI:79:LEU:HD11	9:CI:83:ARG:NH2	2.24	0.53
12:CL:33:ARG:HB3	12:CL:85:ILE:CG2	2.39	0.53
17:CQ:9:VAL:HG12	17:CQ:56:VAL:CG2	2.28	0.53
22:CV:32:G:C6	22:CV:43:G:C6	2.97	0.53
22:CV:71:G:N2	22:CV:72:C:C2	2.77	0.53
28:D3:8:LEU:HD13	28:D3:31:LEU:HA	1.90	0.53
35:DA:706:A:OP1	38:DD:7:LYS:HE3	2.08	0.53
35:DA:1045:A:H5"	35:DA:1047:G:N3	2.23	0.53
35:DA:1448:G:N3	35:DA:1528(A):A:H2	2.07	0.53
35:DA:1678:G:N2	35:DA:1989:G:H22	2.06	0.53
35:DA:1886:C:H2'	35:DA:1887:C:C6	2.43	0.53
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.91	0.53
35:DA:2126:A:H5'	37:DC:38:PHE:CD2	2.44	0.53
35:DA:2512:C:H4'	39:DE:122:PHE:CE2	2.44	0.53
35:DA:2562:U:C2'	35:DA:2563:U:H5'	2.38	0.53
35:DA:2875:C:C4'	51:DT:5:ALA:HB2	2.36	0.53
38:DD:28:GLU:H	38:DD:29:PRO:CD	2.16	0.53
41:DG:58:GLN:HG3	41:DG:59:GLU:N	2.22	0.53
45:DN:46:VAL:O	45:DN:47:ALA:HB3	2.07	0.53
48:DQ:45:GLN:CD	48:DQ:45:GLN:H	2.15	0.53
51:DT:57:PHE:CG	51:DT:58:ASN:N	2.63	0.53
53:DV:76:LYS:HB2	53:DV:81:TYR:HB3	1.90	0.53
57:DZ:133:ILE:HG22	57:DZ:133:ILE:O	2.08	0.53
1:AA:66:G:H4'	1:AA:173:U:C5	2.44	0.53
1:AA:1141:C:H2'	1:AA:1142:G:N7	2.23	0.53
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.74	0.53
3:AC:76:VAL:CG2	3:AC:77:ILE:H	2.18	0.53
4:AD:26:CYS:CA	4:AD:31:CYS:HB2	2.37	0.53
4:AD:79:PHE:HD2	4:AD:207:TYR:CD2	2.26	0.53
10:AJ:5:ARG:O	10:AJ:98:ILE:HA	2.08	0.53
11:AK:57:THR:OG1	11:AK:58:PRO:HD2	2.08	0.53
16:AP:14:ASN:HA	16:AP:42:ARG:NH2	2.24	0.53
22:AV:42:C:O2'	22:AV:43:G:H5'	2.08	0.53
22:AY:63:C:C1'	57:BZ:186:GLU:CG	2.85	0.53
35:BA:500:G:N2	35:BA:502:A:H3'	2.22	0.53
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.08	0.53
36:BB:28:C:O2'	36:BB:29:A:H5'	2.08	0.53
36:BB:81:G:N3	36:BB:81:G:H5'	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:25:THR:O	38:BD:26:LYS:C	2.51	0.53
38:BD:45:ASN:OD1	38:BD:46:GLN:N	2.42	0.53
39:BE:34:VAL:CG2	39:BE:34:VAL:O	2.57	0.53
42:BH:117:PRO:HB3	42:BH:123:PHE:CE2	2.43	0.53
47:BP:65:ARG:HG3	47:BP:65:ARG:HH11	1.72	0.53
48:BQ:34:LEU:CD1	48:BQ:129:THR:HB	2.32	0.53
53:BV:35:LEU:O	53:BV:36:PRO:C	2.51	0.53
56:BY:95:LYS:HD3	56:BY:100:ALA:HA	1.91	0.53
1:CA:57:G:H2'	1:CA:58:C:C6	2.44	0.53
1:CA:319:G:O2'	1:CA:320:C:H5'	2.09	0.53
1:CA:529:G:O6	12:CL:49:ASN:HA	2.09	0.53
1:CA:575:G:H4'	1:CA:575:G:OP1	2.09	0.53
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.23	0.53
1:CA:1432:G:OP1	51:DT:107:ASP:HB2	2.09	0.53
3:CC:95:THR:HG22	3:CC:97:LYS:H	1.74	0.53
3:CC:119:ARG:HG3	3:CC:119:ARG:NH1	2.23	0.53
5:CE:93:PRO:HG2	8:CH:105:ARG:NH2	2.23	0.53
5:CE:144:THR:OG1	5:CE:146:ALA:HB3	2.08	0.53
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	2.08	0.53
13:CM:28:ALA:O	13:CM:30:ALA:N	2.41	0.53
20:CT:57:ARG:HB2	20:CT:57:ARG:HH11	1.73	0.53
20:CT:58:LYS:O	20:CT:61:SER:HB3	2.09	0.53
23:CW:7:U:N3	23:CW:68:A:N6	2.57	0.53
23:CW:9:A:C5	23:CW:47:G:C2	2.97	0.53
23:CW:11:C:N3	23:CW:27:C:O2	2.42	0.53
23:CW:27:C:C3'	23:CW:28:G:C8	2.87	0.53
22:CY:5:C:H2'	22:CY:6:C:C6	2.44	0.53
25:D0:77:ARG:NH2	35:DA:857:C:OP1	2.40	0.53
29:D4:33:VAL:HG13	41:DG:109:VAL:HG13	1.90	0.53
30:D5:3:LYS:HZ2	30:D5:5:PRO:C	2.12	0.53
30:D5:45:VAL:CG1	30:D5:55:ARG:HG2	2.39	0.53
30:D5:50:GLY:CA	30:D5:55:ARG:HB2	2.39	0.53
31:D6:11:LEU:HG	31:D6:51:GLU:HG3	1.91	0.53
32:D7:35:ARG:HD3	35:DA:54:G:O2'	2.08	0.53
35:DA:557:U:O2'	35:DA:558:G:H5'	2.09	0.53
35:DA:1495:A:N3	35:DA:1496:A:C2	2.77	0.53
35:DA:1532:C:C2'	35:DA:1533:G:H5'	2.39	0.53
35:DA:1826:G:C4'	38:DD:242:ARG:HH21	2.18	0.53
35:DA:1952:A:C5	46:DO:22:ILE:HD12	2.44	0.53
36:DB:42:C:O2	41:DG:93:THR:N	2.40	0.53
38:DD:112:GLN:O	38:DD:115:GLN:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:10:GLY:HA3	51:DT:8:LYS:HZ2	1.73	0.53
40:DF:133:ASN:H	40:DF:133:ASN:ND2	2.06	0.53
41:DG:36:LYS:HD2	41:DG:38:VAL:HG23	1.91	0.53
41:DG:40:ASN:HD22	41:DG:41:GLN:H	1.56	0.53
56:DY:28:LYS:CB	56:DY:37:VAL:HB	2.35	0.53
57:DZ:153:SER:HB2	57:DZ:163:LEU:HD13	1.90	0.53
1:AA:102:G:O2'	1:AA:103:C:H5'	2.09	0.53
1:AA:1316:G:H2'	1:AA:1317:C:H5"	1.88	0.53
4:AD:14:ARG:C	4:AD:16:GLY:H	2.15	0.53
4:AD:135:LEU:C	4:AD:137:SER:H	2.17	0.53
8:AH:109:ILE:CG2	8:AH:137:VAL:HB	2.38	0.53
10:AJ:24:VAL:O	10:AJ:28:ARG:HG3	2.08	0.53
11:AK:85:ARG:HG2	11:AK:111:ASP:O	2.08	0.53
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	2.09	0.53
25:B0:72:ARG:O	25:B0:75:LEU:HB2	2.08	0.53
35:BA:389:G:N1	47:BP:70:GLN:HG3	2.24	0.53
35:BA:1486:A:H61	35:BA:1504:C:N4	2.07	0.53
35:BA:1539:G:C2	35:BA:1540:U:H1'	2.44	0.53
35:BA:1678:G:N2	35:BA:1989:G:H22	2.06	0.53
37:BC:5:GLY:O	37:BC:9:ARG:HB2	2.09	0.53
40:BF:157:VAL:CG2	40:BF:194:MET:HG2	2.39	0.53
41:BG:37:VAL:O	41:BG:37:VAL:HG13	2.08	0.53
41:BG:39:ILE:HG13	41:BG:92:VAL:CG1	2.39	0.53
43:BI:113:ARG:HH11	43:BI:113:ARG:CB	2.18	0.53
47:BP:16:ARG:NE	47:BP:18:ARG:HB2	2.23	0.53
53:BV:5:VAL:HG21	53:BV:35:LEU:HB3	1.91	0.53
53:BV:39:LEU:HA	53:BV:47:VAL:HG13	1.91	0.53
55:BX:57:LEU:HD22	55:BX:57:LEU:O	2.09	0.53
56:BY:51:VAL:C	56:BY:53:PRO:HD2	2.33	0.53
57:BZ:24:LEU:HD23	57:BZ:24:LEU:C	2.34	0.53
1:CA:81:U:H3	1:CA:88:A:N6	1.97	0.53
1:CA:291:C:O2'	1:CA:292:G:H5'	2.09	0.53
2:CB:58:ILE:HG23	2:CB:222:ILE:HD11	1.91	0.53
3:CC:76:VAL:CG2	3:CC:77:ILE:H	2.19	0.53
4:CD:79:PHE:HD2	4:CD:207:TYR:CD2	2.27	0.53
4:CD:96:LEU:HG	4:CD:139:ARG:NH2	2.24	0.53
6:CF:11:ASN:HB3	6:CF:14:LEU:HD21	1.89	0.53
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.44	0.53
9:CI:95:LYS:O	9:CI:99:LEU:HB2	2.08	0.53
12:CL:86:ARG:HB2	12:CL:101:VAL:HG23	1.89	0.53
13:CM:70:LEU:C	13:CM:70:LEU:HD23	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:79:LYS:HG2	13:CM:82:MET:HE3	1.91	0.53
15:CO:73:GLU:O	15:CO:74:ASP:HB2	2.08	0.53
16:CP:55:ARG:C	16:CP:57:ARG:N	2.65	0.53
35:DA:1339:G:N2	35:DA:1603:A:H1'	2.24	0.53
35:DA:1484:G:N2	35:DA:1505:C:N4	2.56	0.53
35:DA:2305:A:H8	41:DG:156:ASP:OD1	1.91	0.53
35:DA:2762:G:C2'	35:DA:2763:G:H5'	2.39	0.53
39:DE:12:THR:O	39:DE:23:VAL:HG22	2.08	0.53
39:DE:98:PRO:HG3	39:DE:175:VAL:HG12	1.91	0.53
41:DG:61:ALA:HA	41:DG:64:THR:CG2	2.39	0.53
42:DH:55:PRO:HG2	42:DH:61:HIS:CE1	2.43	0.53
43:DI:4:ILE:HG12	43:DI:18:VAL:CG2	2.39	0.53
43:DI:68:LEU:HG	43:DI:72:LEU:HD11	1.91	0.53
46:DO:35:VAL:HG11	46:DO:103:ALA:CB	2.34	0.53
47:DP:71:VAL:HG12	47:DP:72:PRO:HD3	1.89	0.53
48:DQ:36:ALA:HB1	48:DQ:127:ILE:CD1	2.39	0.53
50:DS:54:LEU:C	50:DS:56:LEU:N	2.67	0.53
50:DS:85:VAL:HG22	50:DS:106:ARG:HB2	1.90	0.53
55:DX:12:VAL:HG22	55:DX:27:THR:O	2.09	0.53
56:DY:88:LYS:HZ3	56:DY:93:GLY:C	2.17	0.53
1:AA:322:C:H4'	20:AT:23:ARG:HD2	1.91	0.53
1:AA:501:C:H2'	1:AA:502:G:H8	1.73	0.53
1:AA:532:A:H2	1:AA:1207:G:H1'	1.74	0.53
1:AA:552:U:O2'	1:AA:553:A:H5'	2.08	0.53
2:AB:71:VAL:HB	2:AB:164:VAL:CG1	2.38	0.53
6:AF:99:ALA:HB2	18:AR:31:LEU:HD22	1.90	0.53
7:AG:152:ALA:C	7:AG:154:TYR:H	2.17	0.53
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.20	0.53
12:AL:126:LYS:HE2	12:AL:126:LYS:HA	1.89	0.53
29:B4:27:THR:O	29:B4:27:THR:HG23	2.09	0.53
35:BA:587:C:H2'	47:BP:33:ARG:CZ	2.39	0.53
35:BA:612:C:C3'	35:BA:613:G:H5"	2.38	0.53
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.39	0.53
38:BD:241:PRO:O	38:BD:243:GLY:N	2.41	0.53
39:BE:65:GLY:C	39:BE:67:PHE:N	2.66	0.53
40:BF:108:LYS:HD2	40:BF:112:MET:HE3	1.90	0.53
41:BG:107:LEU:HD11	41:BG:178:PHE:CD1	2.44	0.53
41:BG:145:THR:HG21	41:BG:148:MET:HB3	1.91	0.53
43:BI:68:LEU:HG	43:BI:72:LEU:HD11	1.91	0.53
48:BQ:45:GLN:CD	48:BQ:45:GLN:H	2.15	0.53
48:BQ:103:MET:HE1	48:BQ:125:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:98:LEU:H	49:BR:113:LEU:HD23	1.74	0.53
51:BT:28:VAL:CB	51:BT:88:ILE:HG12	2.36	0.53
52:BU:68:ALA:CB	52:BU:99:ALA:HB1	2.38	0.53
54:BW:10:VAL:O	54:BW:11:ARG:CB	2.51	0.53
1:CA:430:A:OP2	4:CD:8:VAL:HG22	2.08	0.53
1:CA:724:G:O2'	1:CA:725:G:H5'	2.09	0.53
2:CB:39:ILE:O	2:CB:41:ILE:HD12	2.09	0.53
17:CQ:32:TYR:O	17:CQ:34:LYS:N	2.42	0.53
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.90	0.53
22:CY:43:G:C6	22:CY:44:A:C5	2.97	0.53
22:CY:78:A:N1	35:DA:2583:G:O2'	2.27	0.53
29:D4:36:CYS:HA	41:DG:108:ASN:O	2.08	0.53
31:D6:15:GLU:OE1	31:D6:41:PRO:HG3	2.08	0.53
33:D8:52:LYS:HE2	35:DA:834:C:H4'	1.91	0.53
35:DA:587:C:H3'	47:DP:33:ARG:NH2	2.24	0.53
35:DA:654(U):A:H2'	35:DA:654(V):A:C8	2.43	0.53
35:DA:2666:C:H5'	35:DA:2667:C:OP2	2.09	0.53
35:DA:2869:G:H2'	35:DA:2870:C:H6	1.72	0.53
36:DB:80:U:O2'	36:DB:81:G:H5"	2.09	0.53
37:DC:31:LYS:HE2	37:DC:181:PHE:O	2.09	0.53
41:DG:12:TYR:HA	41:DG:16:ARG:HG3	1.89	0.53
45:DN:73:THR:CG2	45:DN:82:LEU:HD11	2.39	0.53
47:DP:19:VAL:O	47:DP:19:VAL:HG23	2.08	0.53
47:DP:97:PRO:O	47:DP:98:GLU:CB	2.55	0.53
52:DU:91:ASP:CG	52:DU:96:ALA:HB2	2.33	0.53
56:DY:100:ALA:O	56:DY:101:LYS:HB2	2.08	0.53
57:DZ:104:PHE:HD1	57:DZ:139:VAL:CB	2.19	0.53
1:AA:255:G:H1'	17:AQ:16:GLN:HE21	1.73	0.53
1:AA:1054:C:O2'	1:AA:1055:A:P	2.67	0.53
1:AA:1305:G:C2	1:AA:1331:G:N3	2.77	0.53
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.45	0.53
4:AD:171:GLY:C	4:AD:173:TRP:H	2.17	0.53
7:AG:73:MET:HG2	7:AG:90:GLU:HA	1.91	0.53
17:AQ:74:LEU:C	17:AQ:74:LEU:HD13	2.34	0.53
22:AY:20:G:C3'	22:AY:21:U:H5'	2.26	0.53
22:AY:56:U:O2'	57:BZ:183:LEU:HD13	2.08	0.53
28:B3:7:LYS:HB2	28:B3:34:GLU:HG2	1.91	0.53
29:B4:5:ILE:CG1	41:BG:67:LYS:HZ2	2.22	0.53
31:B6:5:VAL:HG22	31:B6:6:ARG:N	2.22	0.53
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.16	0.53
35:BA:99:U:H4'	35:BA:102:G:H1'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:269:U:O2	35:BA:269:U:H2'	2.09	0.53
35:BA:322:A:H5'	35:BA:340:A:H1'	1.91	0.53
35:BA:1186:G:H2'	35:BA:1187:G:O4'	2.09	0.53
35:BA:1317:A:H2'	35:BA:1318:C:H6	1.74	0.53
35:BA:2777:G:H5"	35:BA:2778:A:H5'	1.90	0.53
43:BI:77:LEU:HD23	43:BI:77:LEU:C	2.34	0.53
45:BN:96:GLU:O	45:BN:100:GLU:HG3	2.08	0.53
50:BS:92:TYR:O	50:BS:93:LYS:HB3	2.07	0.53
55:BX:3:THR:O	55:BX:4:ALA:HB3	2.08	0.53
57:BZ:152:ALA:HB1	57:BZ:167:PRO:HB2	1.89	0.53
1:CA:373:A:H2'	1:CA:374:A:C8	2.33	0.53
1:CA:749:C:O2'	1:CA:750:G:H5'	2.08	0.53
1:CA:1137:C:H4'	1:CA:1138:G:N2	2.23	0.53
2:CB:224:GLN:C	2:CB:226:ARG:H	2.16	0.53
3:CC:20:SER:CB	3:CC:40:ARG:HH22	2.22	0.53
3:CC:91:LEU:O	3:CC:95:THR:HB	2.08	0.53
4:CD:209:ARG:HG3	4:CD:209:ARG:HH11	1.73	0.53
5:CE:6:PHE:HB2	5:CE:34:VAL:HG22	1.91	0.53
5:CE:12:LEU:O	5:CE:12:LEU:HD13	2.07	0.53
8:CH:40:ALA:C	8:CH:42:GLU:N	2.66	0.53
22:CV:14:A:C6	22:CV:15:G:C4	2.96	0.53
29:D4:15:ILE:HA	29:D4:21:VAL:HG22	1.90	0.53
35:DA:7:G:H5'	45:DN:130:HIS:HD2	1.73	0.53
35:DA:34:C:N4	35:DA:455:C:H5'	2.24	0.53
35:DA:269:U:H2'	35:DA:269:U:O2	2.08	0.53
35:DA:654(S):G:O5'	35:DA:654(T):C:H5"	2.09	0.53
35:DA:1846:G:H5'	35:DA:1846:G:C8	2.39	0.53
35:DA:2171:A:H4'	35:DA:2172:U:O5'	2.08	0.53
35:DA:2335:A:O2'	35:DA:2336:A:H5"	2.08	0.53
35:DA:2801:A:H2'	35:DA:2801:A:N3	2.24	0.53
36:DB:28:C:O2'	36:DB:29:A:H5'	2.09	0.53
38:DD:106:ILE:HD11	38:DD:157:ARG:O	2.09	0.53
38:DD:134:ARG:HG3	38:DD:135:PHE:CD1	2.44	0.53
41:DG:126:ASP:O	41:DG:128:ARG:N	2.41	0.53
42:DH:136:ILE:H	42:DH:136:ILE:CD1	2.22	0.53
47:DP:16:ARG:NE	47:DP:18:ARG:HB2	2.24	0.53
48:DQ:54:MET:HG3	48:DQ:117:ALA:HB1	1.90	0.53
49:DR:98:LEU:H	49:DR:113:LEU:HD23	1.74	0.53
52:DU:113:ALA:C	52:DU:115:ALA:H	2.15	0.53
53:DV:5:VAL:HG21	53:DV:35:LEU:HB3	1.90	0.53
56:DY:26:LYS:O	56:DY:27:VAL:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:88:LYS:NZ	56:DY:93:GLY:C	2.67	0.53
1:AA:16:A:N1	1:AA:919:A:C2	2.77	0.52
1:AA:824:C:H2'	1:AA:825:G:H8	1.74	0.52
1:AA:1459:C:O2'	1:AA:1460:A:H5'	2.09	0.52
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.09	0.52
3:AC:32:LEU:HB3	3:AC:59:ARG:NH2	2.24	0.52
3:AC:103:VAL:CG1	3:AC:104:GLN:N	2.72	0.52
5:AE:79:GLU:HA	5:AE:91:LEU:O	2.09	0.52
5:AE:91:LEU:N	5:AE:91:LEU:HD22	2.23	0.52
17:AQ:85:VAL:HG12	17:AQ:89:LEU:HD12	1.91	0.52
18:AR:79:LEU:CD2	18:AR:80:PRO:HD2	2.39	0.52
22:AV:14:A:C2	22:AV:15:G:H1'	2.44	0.52
22:AV:69:G:H2'	22:AV:70:G:H8	1.74	0.52
22:AV:77:C:H5'	22:AV:77:C:C6	2.44	0.52
23:AW:14:A:C2	23:AW:24:A:C5	2.96	0.52
23:AW:15:G:OP2	23:AW:16:U:H5	1.91	0.52
22:AY:27:C:H2'	22:AY:28:G:C8	2.44	0.52
26:B1:29:GLY:O	26:B1:31:GLY:N	2.40	0.52
33:B8:32:LEU:O	33:B8:33:ASN:O	2.28	0.52
33:B8:34:TRP:CG	33:B8:35:GLN:N	2.76	0.52
35:BA:271(P):C:H5'	43:BI:46:ALA:HB2	1.89	0.52
35:BA:706:A:OP1	38:BD:7:LYS:HE3	2.08	0.52
35:BA:1131:G:O2'	35:BA:1132:A:H8	1.91	0.52
35:BA:1484:G:N2	35:BA:1505:C:N4	2.57	0.52
35:BA:2273:A:H2'	35:BA:2274:A:C8	2.43	0.52
36:BB:94:C:H2'	36:BB:95:C:C6	2.41	0.52
37:BC:51:ASP:H	37:BC:57:GLN:NE2	2.06	0.52
37:BC:186:LEU:O	37:BC:190:ILE:HG12	2.09	0.52
41:BG:13:GLU:O	41:BG:14:GLU:HG3	2.09	0.52
41:BG:51:ARG:NE	41:BG:51:ARG:CA	2.60	0.52
43:BI:1:MET:O	43:BI:3:VAL:HG23	2.08	0.52
45:BN:59:LYS:O	45:BN:60:ILE:C	2.52	0.52
46:BO:9:GLU:O	46:BO:83:ALA:HA	2.09	0.52
48:BQ:51:ARG:HH21	48:BQ:52:VAL:CG2	2.22	0.52
48:BQ:55:VAL:HG12	48:BQ:64:ILE:CD1	2.35	0.52
49:BR:30:THR:HA	49:BR:78:LYS:HZ3	1.72	0.52
51:BT:27:THR:CG2	51:BT:28:VAL:N	2.71	0.52
56:BY:28:LYS:O	56:BY:29:GLU:C	2.50	0.52
57:BZ:163:LEU:HD23	57:BZ:163:LEU:N	2.25	0.52
1:CA:453:A:H2'	1:CA:454:C:C6	2.44	0.52
1:CA:880:C:H2'	1:CA:881:G:C8	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.73	0.52
1:CA:1228:C:P	13:CM:108:ARG:NH2	2.82	0.52
1:CA:1320:C:H5'	19:CS:70:LYS:CG	2.39	0.52
2:CB:187:LEU:HD11	2:CB:205:ASP:HA	1.90	0.52
5:CE:6:PHE:HD1	5:CE:63:ARG:NH1	2.07	0.52
5:CE:43:LEU:HB2	5:CE:136:MET:SD	2.49	0.52
6:CF:5:GLU:HG3	6:CF:93:SER:OG	2.09	0.52
10:CJ:21:GLN:HG2	10:CJ:25:GLU:OE2	2.08	0.52
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HD11	1.91	0.52
16:CP:14:ASN:HA	16:CP:42:ARG:NH2	2.24	0.52
22:CV:5:C:C2	22:CV:71:G:C2	2.97	0.52
23:CW:61:A:O2'	23:CW:62:U:H5'	2.09	0.52
23:CW:71:G:N1	23:CW:72:C:C6	2.77	0.52
25:D0:27:GLU:OE2	35:DA:856:C:H4'	2.10	0.52
25:D0:72:ARG:O	25:D0:75:LEU:HB2	2.09	0.52
35:DA:322:A:H5'	35:DA:340:A:H1'	1.90	0.52
35:DA:1221:C:H2'	35:DA:1221(A):C:C6	2.43	0.52
35:DA:2012:G:H4'	54:DW:96:ILE:CD1	2.39	0.52
36:DB:7:G:H3'	36:DB:8:U:C5'	2.20	0.52
38:DD:34:VAL:HG23	38:DD:35:LYS:N	2.24	0.52
38:DD:132:PRO:HD3	38:DD:190:TYR:CZ	2.43	0.52
39:DE:77:ILE:CG2	39:DE:78:LEU:H	2.00	0.52
41:DG:158:ALA:O	41:DG:159:VAL:HB	2.09	0.52
43:DI:48:GLU:HA	43:DI:51:ILE:HB	1.91	0.52
46:DO:71:ARG:NH2	46:DO:77:ILE:HG21	2.24	0.52
49:DR:56:LYS:C	49:DR:58:GLY:H	2.17	0.52
57:DZ:103:ARG:HG3	57:DZ:103:ARG:NH1	2.23	0.52
57:DZ:166:SER:N	57:DZ:167:PRO:HA	2.20	0.52
1:AA:692:U:H5	11:AK:26:ASN:ND2	2.06	0.52
1:AA:867:G:O2'	1:AA:868:C:H5'	2.09	0.52
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.44	0.52
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.36	0.52
1:AA:1151:A:N3	10:AJ:39:PRO:HG3	2.24	0.52
1:AA:1418:A:C2	1:AA:1483:A:C2	2.98	0.52
2:AB:95:GLN:OE1	2:AB:95:GLN:HA	2.09	0.52
4:AD:170:VAL:HG12	4:AD:174:LEU:HB2	1.91	0.52
7:AG:62:PHE:CD1	7:AG:124:LEU:HD21	2.43	0.52
9:AI:50:LEU:O	9:AI:53:VAL:HG22	2.10	0.52
15:AO:85:LEU:HD22	15:AO:87:ILE:HD13	1.92	0.52
22:AV:20:G:C2	22:AV:59:G:C4	2.97	0.52
23:AW:44:A:C3'	23:AW:45:U:H5"	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:41:ARG:HD3	26:B1:43:TYR:CZ	2.44	0.52
27:B2:69:ARG:HG2	27:B2:69:ARG:NH1	2.22	0.52
32:B7:32:LYS:O	32:B7:36:GLN:HB2	2.09	0.52
33:B8:13:ARG:O	33:B8:13:ARG:HG3	2.09	0.52
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.43	0.52
35:BA:1886:C:H2'	35:BA:1887:C:C6	2.44	0.52
35:BA:2171:A:H4'	35:BA:2172:U:O5'	2.08	0.52
35:BA:2295:C:O2'	35:BA:2296:U:H5'	2.10	0.52
35:BA:2306:C:H5"	35:BA:2307:G:O4'	2.10	0.52
36:BB:6:C:H42	36:BB:115:G:H1	1.56	0.52
40:BF:133:ASN:H	40:BF:133:ASN:ND2	2.07	0.52
42:BH:96:ALA:HA	42:BH:105:LEU:HA	1.91	0.52
42:BH:152:ARG:O	42:BH:152:ARG:HG3	2.08	0.52
46:BO:49:ARG:HA	46:BO:53:LYS:HZ3	1.74	0.52
47:BP:93:GLY:O	47:BP:123:LEU:HB2	2.09	0.52
50:BS:13:ARG:HG3	50:BS:14:VAL:N	2.21	0.52
50:BS:89:ARG:HG2	50:BS:89:ARG:HH11	1.74	0.52
55:BX:47:PHE:O	55:BX:48:LYS:C	2.52	0.52
57:BZ:35:ARG:HH11	57:BZ:35:ARG:HG3	1.74	0.52
1:CA:41:G:O2'	1:CA:42:G:H5'	2.10	0.52
1:CA:229:U:O2'	1:CA:230:G:H5'	2.08	0.52
1:CA:425:G:O2'	1:CA:426:G:H5'	2.09	0.52
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.28	0.52
1:CA:1280:A:H5'	10:CJ:40:LEU:HD22	1.90	0.52
1:CA:1305:G:OP1	21:CU:2:GLY:HA3	2.09	0.52
1:CA:1400:C:C4	22:CV:36:AG9:N3	2.77	0.52
1:CA:1440:C:H1'	1:CA:1462:G:N2	2.23	0.52
5:CE:41:VAL:O	5:CE:66:MET:HA	2.09	0.52
5:CE:103:GLY:O	5:CE:104:ALA:C	2.51	0.52
7:CG:100:ALA:O	7:CG:104:LEU:HD23	2.09	0.52
9:CI:28:VAL:HG13	9:CI:63:ILE:O	2.09	0.52
17:CQ:98:LEU:HD12	17:CQ:98:LEU:N	2.24	0.52
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.25	0.52
22:CV:12:U:C2	22:CV:26:G:N2	2.77	0.52
22:CY:27:C:H2'	22:CY:28:G:O4'	2.08	0.52
35:DA:747:U:O2	35:DA:2014:A:H1'	2.10	0.52
35:DA:1693:U:O2'	38:DD:14:ARG:NH2	2.42	0.52
35:DA:2306:C:H5"	35:DA:2307:G:O4'	2.09	0.52
35:DA:2657:A:C2'	35:DA:2658:C:H5'	2.39	0.52
37:DC:5:GLY:O	37:DC:9:ARG:HB2	2.09	0.52
38:DD:9:TYR:CD1	38:DD:10:THR:HG22	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.75	0.52
39:DE:61:ARG:C	39:DE:63:LEU:N	2.68	0.52
39:DE:107:THR:O	39:DE:190:GLY:HA2	2.10	0.52
40:DF:196:LEU:O	40:DF:196:LEU:HD23	2.09	0.52
41:DG:131:TYR:H	41:DG:159:VAL:CG1	2.21	0.52
47:DP:65:ARG:HH11	47:DP:65:ARG:HG3	1.74	0.52
49:DR:32:GLY:C	49:DR:33:ARG:HD2	2.34	0.52
53:DV:38:LEU:HD23	53:DV:39:LEU:N	2.25	0.52
57:DZ:5:LEU:CD1	57:DZ:47:VAL:HG21	2.39	0.52
57:DZ:129:SER:HB2	57:DZ:130:PRO:HD2	1.90	0.52
1:AA:190:U:H2'	1:AA:191:G:C8	2.44	0.52
1:AA:191:G:N3	20:AT:105:SER:HB3	2.24	0.52
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.24	0.52
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.10	0.52
2:AB:22:LYS:H	2:AB:40:HIS:HE1	1.57	0.52
2:AB:58:ILE:HG23	2:AB:222:ILE:HD11	1.91	0.52
2:AB:67:THR:CG2	2:AB:155:LEU:HD21	2.39	0.52
2:AB:85:ALA:HB1	2:AB:92:TYR:CD1	2.44	0.52
3:AC:150:LYS:HG3	3:AC:169:ALA:CB	2.35	0.52
4:AD:177:ASP:O	4:AD:179:GLU:N	2.43	0.52
10:AJ:34:VAL:HG13	10:AJ:73:ASP:C	2.34	0.52
10:AJ:61:GLU:OE2	14:AN:58:LYS:HE2	2.09	0.52
12:AL:39:VAL:HG12	12:AL:40:VAL:N	2.25	0.52
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.34	0.52
15:AO:73:GLU:O	15:AO:74:ASP:HB2	2.08	0.52
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.10	0.52
20:AT:99:LEU:O	20:AT:101:GLY:N	2.43	0.52
23:AW:35:U:OP2	23:AW:35:U:H6	1.93	0.52
22:AY:55:G:C5'	48:BQ:56:ARG:NH2	2.62	0.52
29:B4:26:SER:OG	29:B4:27:THR:N	2.42	0.52
35:BA:34:C:H41	35:BA:455:C:H5'	1.74	0.52
35:BA:322:A:H5'	35:BA:340:A:C1'	2.40	0.52
35:BA:418:G:O2'	35:BA:419:C:H5'	2.09	0.52
35:BA:1689:A:N6	35:BA:1698:A:H2	1.97	0.52
35:BA:1754:C:OP1	51:BT:96:ARG:NH1	2.41	0.52
35:BA:2801:A:H2'	35:BA:2801:A:N3	2.25	0.52
38:BD:209:ALA:C	38:BD:210:GLY:O	2.49	0.52
39:BE:100:GLU:O	39:BE:172:VAL:HG23	2.10	0.52
41:BG:95:ARG:O	41:BG:96:ARG:C	2.50	0.52
47:BP:7:ARG:NH1	47:BP:7:ARG:CB	2.73	0.52
47:BP:16:ARG:HH11	47:BP:16:ARG:CB	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:17:LYS:C	47:BP:19:VAL:N	2.67	0.52
47:BP:19:VAL:O	47:BP:19:VAL:HG23	2.10	0.52
47:BP:40:SER:O	47:BP:41:ARG:NE	2.35	0.52
47:BP:101:VAL:HG23	47:BP:102:ARG:N	2.23	0.52
51:BT:38:ASN:C	51:BT:40:THR:H	2.17	0.52
57:BZ:183:LEU:CD1	57:BZ:184:ALA:N	2.69	0.52
1:CA:963:G:N2	10:CJ:55:LYS:HD3	2.24	0.52
1:CA:1505:G:C5'	1:CA:1506:U:H5"	2.35	0.52
2:CB:79:ASP:C	2:CB:81:VAL:N	2.67	0.52
2:CB:224:GLN:HB2	2:CB:229:VAL:HG22	1.92	0.52
3:CC:32:LEU:HD22	3:CC:59:ARG:CZ	2.40	0.52
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.08	0.52
5:CE:79:GLU:HA	5:CE:91:LEU:O	2.08	0.52
12:CL:36:VAL:C	12:CL:58:VAL:HG22	2.34	0.52
12:CL:86:ARG:HB2	12:CL:101:VAL:CG2	2.38	0.52
13:CM:6:GLY:O	13:CM:8:GLU:N	2.39	0.52
16:CP:6:LEU:HG	16:CP:17:TYR:HB3	1.89	0.52
16:CP:50:LYS:HD3	16:CP:51:VAL:N	2.24	0.52
17:CQ:74:LEU:C	17:CQ:74:LEU:HD13	2.35	0.52
22:CV:8:U:C2	22:CV:15:G:O6	2.62	0.52
22:CV:12:U:O2	22:CV:13:U:H1'	2.08	0.52
22:CV:14:A:N7	22:CV:24:A:C6	2.78	0.52
22:CV:37:A:H2'	22:CV:38:U:C6	2.44	0.52
23:CW:7:U:C4	23:CW:68:A:N6	2.77	0.52
23:CW:20:G:C2	23:CW:59:G:C4	2.96	0.52
22:CY:17:C:OP2	57:DZ:186:GLU:C	2.53	0.52
25:D0:20:ARG:NH1	35:DA:2357:U:OP1	2.42	0.52
29:D4:9:LEU:HD22	29:D4:26:SER:O	2.09	0.52
34:D9:14:CYS:SG	34:D9:27:CYS:HB2	2.50	0.52
35:DA:225:A:O2'	35:DA:257:A:H4'	2.10	0.52
35:DA:271(P):C:H5'	43:DI:46:ALA:HB2	1.90	0.52
35:DA:1528(A):A:H62	35:DA:1541:G:N2	2.07	0.52
35:DA:1980:G:O2'	35:DA:1982:C:OP2	2.27	0.52
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.45	0.52
35:DA:2494:G:O2'	48:DQ:80:GLU:HA	2.10	0.52
35:DA:2579:C:H2'	35:DA:2580:U:O4'	2.10	0.52
35:DA:2801(A):A:C4'	35:DA:2802:G:H5'	2.32	0.52
36:DB:55:U:O3'	41:DG:27:ASN:ND2	2.42	0.52
38:DD:25:THR:O	38:DD:26:LYS:C	2.52	0.52
41:DG:141:PHE:CD1	41:DG:142:PRO:HD2	2.43	0.52
42:DH:149:ARG:HA	42:DH:162:ILE:CG1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:152:ARG:O	42:DH:152:ARG:HG3	2.10	0.52
47:DP:93:GLY:O	47:DP:123:LEU:HB2	2.09	0.52
53:DV:38:LEU:HD22	53:DV:52:VAL:HG11	1.91	0.52
57:DZ:153:SER:N	57:DZ:167:PRO:HB2	2.24	0.52
1:AA:151:A:H2'	1:AA:152:A:H5'	1.90	0.52
1:AA:314:C:O2'	1:AA:315:A:H5'	2.09	0.52
1:AA:1116:C:H3'	1:AA:1117:G:H5"	1.91	0.52
1:AA:1280:A:H5'	10:AJ:40:LEU:HD22	1.90	0.52
1:AA:1409:C:H1'	35:BA:1913:A:N7	2.25	0.52
4:AD:43:HIS:C	4:AD:45:GLN:H	2.16	0.52
4:AD:157:LEU:CD1	4:AD:161:ASN:HD21	2.22	0.52
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.17	0.52
9:AI:69:GLY:O	9:AI:73:GLN:HG3	2.09	0.52
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.75	0.52
12:AL:7:ILE:HG23	12:AL:8:ASN:N	2.23	0.52
12:AL:90:VAL:C	12:AL:92:ASP:N	2.67	0.52
21:AU:12:LYS:CB	21:AU:22:ARG:HD2	2.38	0.52
23:AW:20:G:N1	23:AW:58:C:C4	2.78	0.52
22:AY:57:U:O4'	57:BZ:183:LEU:N	2.37	0.52
25:B0:73:GLY:C	25:B0:75:LEU:H	2.16	0.52
29:B4:1:MET:HE2	41:BG:66:GLN:OE1	2.09	0.52
29:B4:11:PRO:O	29:B4:29:PRO:HG3	2.09	0.52
30:B5:51:TYR:N	30:B5:55:ARG:HD3	2.24	0.52
35:BA:484:C:OP1	56:BY:50:ARG:NE	2.43	0.52
35:BA:1362:C:O2'	35:BA:1363:C:H5'	2.09	0.52
35:BA:1488:G:H5'	35:BA:1489:U:OP2	2.10	0.52
38:BD:4:LYS:HE3	38:BD:20:ASP:HA	1.91	0.52
39:BE:81:ILE:HG22	39:BE:81:ILE:O	2.09	0.52
44:BJ:15:UNK:HA	44:BJ:65:UNK:O	2.10	0.52
47:BP:97:PRO:HD3	47:BP:126:VAL:O	2.09	0.52
47:BP:101:VAL:HG12	47:BP:107:LYS:H	1.75	0.52
52:BU:57:PHE:O	52:BU:58:ARG:C	2.52	0.52
57:BZ:149:SER:OG	57:BZ:150:LEU:HD22	2.10	0.52
1:CA:358:U:H2'	1:CA:359:U:C6	2.44	0.52
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.45	0.52
1:CA:1314:C:H5	19:CS:6:LYS:CE	2.19	0.52
3:CC:19:GLU:HG3	3:CC:54:ARG:NH1	2.25	0.52
4:CD:43:HIS:C	4:CD:45:GLN:H	2.15	0.52
5:CE:91:LEU:N	5:CE:91:LEU:HD22	2.24	0.52
5:CE:146:ALA:O	5:CE:147:ASP:C	2.53	0.52
6:CF:37:VAL:CG1	6:CF:38:GLU:N	2.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.10	0.52
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	2.09	0.52
11:CK:54:ARG:NH1	23:CW:42:C:OP1	2.43	0.52
22:CV:7:U:H3'	22:CV:8:U:C5'	2.38	0.52
23:CW:50:C:C4	23:CW:61:A:C8	2.97	0.52
27:D2:53:LEU:O	27:D2:57:ILE:HG12	2.10	0.52
29:D4:24:THR:HB	41:DG:5:VAL:HG13	1.91	0.52
29:D4:30:GLU:C	29:D4:31:ILE:HD12	2.35	0.52
35:DA:2405:G:O2'	35:DA:2406:U:P	2.68	0.52
35:DA:2635:C:OP1	39:DE:77:ILE:HG21	2.09	0.52
39:DE:62:PRO:C	39:DE:64:LYS:N	2.65	0.52
41:DG:15:VAL:HG13	41:DG:175:LEU:HB3	1.90	0.52
56:DY:7:VAL:HG21	56:DY:8:LYS:HZ3	1.73	0.52
56:DY:36:ALA:HB1	56:DY:67:LEU:O	2.09	0.52
57:DZ:56:VAL:HG13	57:DZ:69:THR:O	2.09	0.52
1:AA:356:A:O2'	1:AA:357:G:H5'	2.10	0.52
1:AA:389:A:H2'	1:AA:390:C:H5'	1.89	0.52
1:AA:425:G:O2'	1:AA:426:G:H5'	2.09	0.52
1:AA:445:G:H2'	1:AA:446:G:C8	2.44	0.52
1:AA:472:A:O2'	16:AP:81:ARG:HA	2.10	0.52
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.75	0.52
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.44	0.52
4:AD:157:LEU:CG	4:AD:161:ASN:HD21	2.21	0.52
7:AG:26:PHE:O	7:AG:30:ILE:HG12	2.10	0.52
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.25	0.52
11:AK:108:ILE:HG21	18:AR:88:LYS:OXT	2.08	0.52
19:AS:17:GLU:O	19:AS:21:GLU:HG2	2.10	0.52
22:AV:69:G:C5	22:AV:70:G:N7	2.78	0.52
22:AY:31:C:C2	22:AY:43:G:N2	2.75	0.52
25:B0:51:VAL:CG2	25:B0:81:VAL:HG23	2.40	0.52
35:BA:633:A:C2'	35:BA:634:C:H5'	2.40	0.52
35:BA:654(V):A:H3'	35:BA:655:A:H2'	1.91	0.52
35:BA:1997:G:O2'	35:BA:1998:G:H5'	2.08	0.52
38:BD:248:SER:HB2	38:BD:249:PRO:HD2	1.92	0.52
39:BE:51:PHE:H	39:BE:74:PRO:HB2	1.74	0.52
45:BN:78:TYR:N	45:BN:78:TYR:CD1	2.76	0.52
45:BN:96:GLU:H	45:BN:96:GLU:CD	2.16	0.52
48:BQ:29:PHE:HB2	48:BQ:105:GLU:OE2	2.10	0.52
49:BR:100:LEU:N	49:BR:100:LEU:HD13	2.25	0.52
51:BT:30:VAL:HG21	51:BT:83:ILE:HG13	1.91	0.52
51:BT:33:LYS:NZ	51:BT:74:ARG:NH2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:27:THR:HB	55:BX:80:ILE:HG22	1.91	0.52
55:BX:30:VAL:HG11	55:BX:39:ILE:HD12	1.92	0.52
57:BZ:23:LYS:HD2	57:BZ:38:TYR:HE1	1.75	0.52
57:BZ:33:LEU:CD1	57:BZ:34:ASN:H	2.23	0.52
57:BZ:163:LEU:HD23	57:BZ:163:LEU:H	1.75	0.52
1:CA:322:C:H4'	20:CT:23:ARG:HD2	1.91	0.52
1:CA:586:C:O2'	1:CA:587:G:H5'	2.09	0.52
2:CB:169:LYS:O	2:CB:169:LYS:HD3	2.10	0.52
7:CG:71:PRO:HD3	7:CG:103:TRP:HZ3	1.74	0.52
10:CJ:23:ILE:HG23	10:CJ:85:LEU:CD2	2.38	0.52
20:CT:93:GLU:C	20:CT:93:GLU:OE1	2.53	0.52
23:CW:11:C:C4	23:CW:12:U:C4	2.97	0.52
22:CY:68:A:C4	22:CY:69:G:C8	2.97	0.52
25:D0:27:GLU:C	25:D0:29:GLN:H	2.17	0.52
32:D7:12:ARG:NH2	32:D7:44:PRO:HB3	2.24	0.52
35:DA:1291:C:H2'	35:DA:1292:U:H6	1.75	0.52
35:DA:1317:A:H2'	35:DA:1318:C:C6	2.45	0.52
35:DA:1541:G:H4'	35:DA:1542:A:O4'	2.10	0.52
35:DA:1884:A:O2'	35:DA:1885:A:H5"	2.09	0.52
35:DA:2286:A:H4'	35:DA:2287:A:O4'	2.10	0.52
35:DA:2389:G:H5"	35:DA:2390:U:H5'	1.92	0.52
37:DC:21:TYR:HB3	37:DC:25:GLU:HG3	1.90	0.52
40:DF:63:LYS:HZ2	40:DF:67:GLN:HB2	1.74	0.52
43:DI:123:LEU:HD23	43:DI:124:GLY:N	2.25	0.52
47:DP:23:PRO:CD	47:DP:33:ARG:CZ	2.79	0.52
47:DP:148:LEU:O	47:DP:149:GLU:HB2	2.09	0.52
53:DV:19:LYS:NZ	53:DV:20:LEU:N	2.46	0.52
56:DY:80:GLY:O	56:DY:81:LYS:HB3	2.08	0.52
57:DZ:165:VAL:CG1	57:DZ:166:SER:N	2.67	0.52
1:AA:203:U:H5"	1:AA:204:U:OP1	2.09	0.52
1:AA:414:A:O2'	1:AA:415:A:H5'	2.09	0.52
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.09	0.52
1:AA:726:C:O2'	1:AA:727:G:H5'	2.10	0.52
1:AA:981:U:H5'	14:AN:21:TYR:CE1	2.44	0.52
3:AC:34:LEU:HG	14:AN:25:VAL:HG11	1.91	0.52
4:AD:90:GLY:CA	4:AD:204:ILE:HD11	2.39	0.52
6:AF:15:ASP:OD1	6:AF:17:SER:HB2	2.10	0.52
8:AH:97:VAL:C	8:AH:99:GLU:H	2.17	0.52
11:AK:124:LYS:NZ	11:AK:124:LYS:HB3	2.25	0.52
16:AP:6:LEU:HG	16:AP:17:TYR:HB3	1.92	0.52
18:AR:79:LEU:HD23	18:AR:80:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:64:GLU:HG3	19:AS:65:ASN:H	1.74	0.52
19:AS:65:ASN:CA	29:B4:48:ARG:HH12	1.95	0.52
20:AT:14:LYS:O	20:AT:18:GLN:HB2	2.08	0.52
23:AW:50:C:N4	23:AW:61:A:C8	2.78	0.52
23:AW:72:C:C4	23:AW:73:C:C4	2.97	0.52
22:AY:25:A:H2'	22:AY:26:G:N7	2.24	0.52
27:B2:32:LEU:HA	27:B2:53:LEU:HD12	1.91	0.52
34:B9:18:ARG:HD2	35:BA:1034:G:H5'	1.91	0.52
35:BA:2067:G:O2'	35:BA:2069:G:H5"	2.10	0.52
35:BA:2141:G:H2'	35:BA:2142:C:C6	2.44	0.52
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.40	0.52
35:BA:2469:A:H2'	48:BQ:56:ARG:HH21	1.75	0.52
35:BA:2726:U:H4'	46:BO:1:MET:HE1	1.91	0.52
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.63	0.52
41:BG:170:ARG:HH11	41:BG:170:ARG:HG2	1.74	0.52
43:BI:91:SER:OG	43:BI:119:PRO:HB2	2.10	0.52
46:BO:77:ILE:HD13	51:BT:74:ARG:HG2	1.90	0.52
48:BQ:36:ALA:HB1	48:BQ:127:ILE:HD12	1.91	0.52
54:BW:4:LYS:HG3	54:BW:106:ILE:HG22	1.92	0.52
56:BY:10:GLY:C	56:BY:27:VAL:HG22	2.35	0.52
56:BY:81:LYS:CD	56:BY:97:ARG:HB3	2.37	0.52
1:CA:777:A:H2'	1:CA:778:G:H8	1.75	0.52
3:CC:181:ASN:OD1	3:CC:204:LEU:HD12	2.09	0.52
4:CD:14:ARG:C	4:CD:16:GLY:H	2.16	0.52
7:CG:79:ARG:HG2	7:CG:81:GLY:N	2.19	0.52
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	1.90	0.52
12:CL:38:THR:CG2	12:CL:39:VAL:N	2.73	0.52
15:CO:85:LEU:HD22	15:CO:87:ILE:HD13	1.90	0.52
22:CV:19:G:C6	22:CV:59:G:C6	2.98	0.52
22:CV:63:C:H2'	22:CV:64:C:H6	1.74	0.52
22:CY:27:C:C2	22:CY:28:G:C8	2.98	0.52
22:CY:69:G:C5	22:CY:70:G:N7	2.77	0.52
32:D7:12:ARG:CD	32:D7:46:VAL:HG21	2.36	0.52
35:DA:633:A:C2'	35:DA:634:C:H5'	2.40	0.52
35:DA:803:U:H2'	35:DA:804:A:H5'	1.90	0.52
35:DA:1902:C:C5'	38:DD:246:PRO:HD3	2.40	0.52
35:DA:2312:U:OP1	41:DG:73:ALA:HA	2.10	0.52
35:DA:2668:G:O2'	35:DA:2669:G:H5'	2.10	0.52
39:DE:51:PHE:H	39:DE:74:PRO:CB	2.23	0.52
43:DI:66:GLU:HA	43:DI:66:GLU:OE1	2.09	0.52
46:DO:49:ARG:HA	46:DO:53:LYS:HZ3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:57:G:H2'	1:AA:58:C:C6	2.44	0.52
1:AA:256:U:H2'	1:AA:257:G:O4'	2.10	0.52
1:AA:389:A:H2'	1:AA:390:C:C5'	2.40	0.52
1:AA:437:U:H2'	1:AA:438:G:O4'	2.10	0.52
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.50	0.52
1:AA:1457:G:O2'	1:AA:1458:G:H5'	2.09	0.52
3:AC:51:GLY:O	3:AC:115:LEU:HD21	2.10	0.52
4:AD:8:VAL:HG23	4:AD:9:CYS:N	2.25	0.52
6:AF:91:VAL:HG11	18:AR:72:ARG:HH12	1.75	0.52
7:AG:145:ALA:O	7:AG:146:GLU:CB	2.57	0.52
9:AI:28:VAL:HG13	9:AI:63:ILE:C	2.35	0.52
10:AJ:3:LYS:HZ3	10:AJ:76:ASN:HA	1.75	0.52
12:AL:33:ARG:HB3	12:AL:85:ILE:CG2	2.40	0.52
23:AW:15:G:C5	23:AW:61:A:C2	2.98	0.52
23:AW:24:A:C4	23:AW:25:A:C8	2.97	0.52
23:AW:30:U:C2	23:AW:31:C:C5	2.97	0.52
23:AW:38:U:H2'	23:AW:39:A:N7	2.24	0.52
22:AY:4:C:N3	22:AY:72:C:C5	2.78	0.52
29:B4:15:ILE:HA	29:B4:21:VAL:HG22	1.91	0.52
31:B6:15:GLU:CD	31:B6:44:ARG:HH12	2.18	0.52
31:B6:30:THR:OG1	31:B6:31:PRO:HD2	2.10	0.52
35:BA:813:U:H2'	35:BA:814:C:H6	1.73	0.52
35:BA:1721:G:H5'	35:BA:1722:A:OP2	2.10	0.52
35:BA:1885:A:H2'	35:BA:1886:C:O4'	2.09	0.52
35:BA:2092:U:C4'	35:BA:2093:G:H5"	2.22	0.52
35:BA:2360:A:O2'	35:BA:2361:A:O5'	2.27	0.52
46:BO:68:GLU:HB3	46:BO:78:ARG:HH11	1.75	0.52
47:BP:95:VAL:CG2	47:BP:125:VAL:HG23	2.39	0.52
55:BX:12:VAL:HG23	55:BX:13:LEU:H	1.75	0.52
1:CA:12:U:H4'	1:CA:526:C:H4'	1.92	0.52
1:CA:147:G:H1	1:CA:175:C:H42	1.56	0.52
1:CA:376:G:H2'	1:CA:377:G:C8	2.43	0.52
1:CA:837:G:O2'	1:CA:838:G:H5'	2.10	0.52
1:CA:981:U:H5'	14:CN:21:TYR:CE1	2.45	0.52
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.37	0.52
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.74	0.52
1:CA:1327:C:H5"	21:CU:20:LYS:HB3	1.91	0.52
1:CA:1524:C:H2'	1:CA:1525:G:C8	2.44	0.52
2:CB:17:PHE:CD2	2:CB:44:LEU:HD11	2.44	0.52
5:CE:18:ARG:HG2	5:CE:25:ARG:O	2.09	0.52
10:CJ:22:LYS:C	10:CJ:22:LYS:HD2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:26:GLN:O	17:CQ:27:PHE:HB3	2.10	0.52
18:CR:36:ASN:HB2	18:CR:40:LEU:CD1	2.39	0.52
20:CT:89:ARG:NH1	20:CT:104:LEU:HD21	2.25	0.52
22:CY:23:A:C2	22:CY:50:C:C2	2.98	0.52
35:DA:587:C:C3'	47:DP:33:ARG:NH2	2.72	0.52
35:DA:951:C:O2'	35:DA:952:G:H5'	2.09	0.52
35:DA:1015:G:H8	35:DA:1015:G:H5'	1.75	0.52
35:DA:1305:C:O2'	35:DA:1306:C:H5'	2.10	0.52
35:DA:1517:G:O2'	35:DA:1518:U:H5'	2.10	0.52
35:DA:1963:U:O2	35:DA:1963:U:C2'	2.56	0.52
35:DA:2815:C:H2'	35:DA:2816:C:H6	1.74	0.52
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.44	0.52
38:DD:72:LYS:HD3	38:DD:97:TYR:CE2	2.45	0.52
43:DI:127:VAL:C	43:DI:128:LEU:HD22	2.35	0.52
47:DP:17:LYS:O	47:DP:19:VAL:N	2.43	0.52
47:DP:124:LYS:HD3	47:DP:143:GLY:HA3	1.92	0.52
49:DR:30:THR:HA	49:DR:78:LYS:HZ3	1.74	0.52
49:DR:76:VAL:HG12	49:DR:77:ARG:N	2.24	0.52
51:DT:12:SER:O	51:DT:13:ARG:CZ	2.57	0.52
51:DT:85:LYS:HZ3	51:DT:85:LYS:CB	2.17	0.52
51:DT:124:ASP:HB3	51:DT:125:ARG:HH12	1.74	0.52
54:DW:47:VAL:HA	54:DW:50:VAL:CG1	2.39	0.52
55:DX:64:LYS:HD3	55:DX:73:ARG:NE	2.24	0.52
1:AA:560:U:H5'	1:AA:566:G:N2	2.24	0.52
1:AA:606:G:H2'	1:AA:631:G:N2	2.25	0.52
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.10	0.52
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.10	0.52
2:AB:87:ARG:O	2:AB:223:ILE:HD11	2.10	0.52
3:AC:46:GLU:O	3:AC:47:LEU:HB2	2.09	0.52
3:AC:181:ASN:OD1	3:AC:204:LEU:HD12	2.10	0.52
4:AD:135:LEU:O	4:AD:137:SER:N	2.38	0.52
5:AE:41:VAL:O	5:AE:66:MET:HA	2.10	0.52
5:AE:150:ARG:NH1	5:AE:150:ARG:HB2	2.25	0.52
7:AG:20:ASP:C	7:AG:22:LEU:H	2.17	0.52
10:AJ:16:LEU:HD11	10:AJ:70:ARG:HG3	1.91	0.52
12:AL:27:LEU:HD22	12:AL:27:LEU:N	2.25	0.52
19:AS:22:LEU:HD12	19:AS:47:HIS:HE1	1.72	0.52
20:AT:33:ILE:O	20:AT:34:LYS:C	2.53	0.52
22:AV:54:G:O2'	22:AV:55:G:H5'	2.10	0.52
23:AW:3:G:N2	23:AW:74:C:C6	2.77	0.52
23:AW:15:G:OP2	23:AW:16:U:C5	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:32:G:C6	23:AW:43:G:C6	2.98	0.52
25:B0:14:ARG:HH11	25:B0:14:ARG:CG	2.22	0.52
26:B1:57:GLU:C	26:B1:58:ILE:HG23	2.35	0.52
30:B5:45:VAL:CG1	30:B5:55:ARG:HG2	2.40	0.52
35:BA:479:A:H4'	35:BA:480:A:OP1	2.10	0.52
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.44	0.52
35:BA:1419:A:O2'	35:BA:1420:U:H5"	2.09	0.52
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.45	0.52
35:BA:2286:A:H4'	35:BA:2287:A:O4'	2.09	0.52
35:BA:2468:G:H22	35:BA:2481:G:C2'	2.22	0.52
35:BA:2494:G:O2'	48:BQ:80:GLU:HA	2.10	0.52
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.45	0.52
40:BF:142:TRP:O	40:BF:145:GLU:HB2	2.10	0.52
42:BH:136:ILE:H	42:BH:136:ILE:CD1	2.23	0.52
43:BI:48:GLU:OE2	43:BI:52:ARG:HD3	2.10	0.52
48:BQ:87:LYS:O	48:BQ:88:GLY:O	2.28	0.52
52:BU:95:LEU:CD1	53:BV:11:GLN:HB2	2.39	0.52
52:BU:95:LEU:O	52:BU:98:LEU:HG	2.10	0.52
52:BU:113:ALA:C	52:BU:115:ALA:H	2.17	0.52
1:CA:191:G:N3	20:CT:105:SER:HB3	2.24	0.52
1:CA:1116:C:H3'	1:CA:1117:G:H5"	1.91	0.52
1:CA:1279:A:N3	1:CA:1279:A:H2'	2.25	0.52
2:CB:171:ALA:HA	2:CB:174:VAL:CG2	2.40	0.52
3:CC:8:ILE:C	3:CC:10:PHE:N	2.65	0.52
3:CC:34:LEU:HG	14:CN:25:VAL:HG11	1.92	0.52
4:CD:13:ARG:O	4:CD:14:ARG:C	2.53	0.52
4:CD:52:SER:O	4:CD:53:ASP:C	2.53	0.52
10:CJ:22:LYS:C	10:CJ:24:VAL:H	2.18	0.52
22:CV:3:G:C2'	22:CV:4:C:H5"	2.40	0.52
22:CV:56:U:O2'	22:CV:57:U:H5'	2.10	0.52
23:CW:29:A:H2'	23:CW:30:U:H6	1.73	0.52
35:DA:1003:G:N2	35:DA:1153:C:C2	2.78	0.52
38:DD:145:VAL:HG12	38:DD:146:GLU:O	2.10	0.52
41:DG:96:ARG:O	41:DG:97:ASP:C	2.53	0.52
43:DI:77:LEU:HD12	43:DI:101:LEU:HD13	1.92	0.52
47:DP:102:ARG:CB	47:DP:102:ARG:NH1	2.73	0.52
50:DS:16:ASN:O	50:DS:19:LYS:N	2.35	0.52
50:DS:66:ALA:O	50:DS:69:VAL:HG12	2.09	0.52
52:DU:47:TYR:HA	52:DU:50:ARG:HH12	1.75	0.52
3:AC:8:ILE:C	3:AC:10:PHE:N	2.65	0.52
5:AE:137:GLU:HG3	5:AE:141:GLN:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:13:ALA:HA	9:AI:67:GLY:O	2.10	0.52
10:AJ:16:LEU:HD22	10:AJ:16:LEU:O	2.09	0.52
15:AO:56:LEU:HA	15:AO:59:MET:HE3	1.92	0.52
15:AO:85:LEU:HD23	15:AO:85:LEU:C	2.34	0.52
16:AP:58:TYR:O	16:AP:62:VAL:HG22	2.10	0.52
18:AR:85:LEU:HD23	18:AR:88:LYS:HG2	1.91	0.52
22:AV:7:U:O4	22:AV:69:G:C6	2.63	0.52
22:AV:39:A:C6	24:AX:16:A:N6	2.77	0.52
23:AW:3:G:N1	23:AW:4:C:C4	2.78	0.52
23:AW:40:A:C6	23:AW:41:C:H2'	2.45	0.52
26:B1:19:GLN:HB2	26:B1:35:THR:CG2	2.40	0.52
29:B4:30:GLU:C	29:B4:31:ILE:HD12	2.34	0.52
35:BA:557:U:O2'	35:BA:558:G:H5'	2.10	0.52
35:BA:1494:A:O2'	35:BA:1496:A:C2	2.63	0.52
35:BA:2672:G:C3'	35:BA:2673:G:H5"	2.40	0.52
38:BD:34:VAL:HG23	38:BD:35:LYS:N	2.24	0.52
41:BG:60:LEU:HD13	41:BG:60:LEU:O	2.10	0.52
41:BG:91:ARG:C	41:BG:91:ARG:CD	2.82	0.52
41:BG:130:ASN:HD22	41:BG:160:VAL:HG22	1.74	0.52
42:BH:70:THR:HG23	42:BH:74:ASN:HD21	1.75	0.52
44:BJ:111:UNK:O	44:BJ:112:UNK:C	2.57	0.52
50:BS:85:VAL:HG22	50:BS:106:ARG:HB2	1.91	0.52
50:BS:89:ARG:HB3	50:BS:92:TYR:CB	2.40	0.52
52:BU:8:VAL:HG23	52:BU:11:ARG:HH21	1.73	0.52
52:BU:66:ASN:O	52:BU:66:ASN:ND2	2.43	0.52
55:BX:10:ALA:HB1	55:BX:11:PRO:HD2	1.92	0.52
55:BX:64:LYS:HD3	55:BX:73:ARG:NE	2.25	0.52
56:BY:28:LYS:CB	56:BY:37:VAL:HB	2.39	0.52
1:CA:255:G:H1'	17:CQ:16:GLN:HE21	1.74	0.52
1:CA:710:G:OP1	6:CF:54:LYS:HE3	2.10	0.52
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.45	0.52
4:CD:8:VAL:HG23	4:CD:9:CYS:N	2.25	0.52
4:CD:177:ASP:O	4:CD:179:GLU:N	2.43	0.52
5:CE:80:ILE:HG22	8:CH:104:ARG:CZ	2.39	0.52
10:CJ:16:LEU:HD22	10:CJ:16:LEU:O	2.10	0.52
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.10	0.52
16:CP:4:ILE:HD12	16:CP:4:ILE:N	2.25	0.52
17:CQ:85:VAL:HG12	17:CQ:89:LEU:HD12	1.91	0.52
22:CV:78:A:H8	35:DA:2602:A:N6	2.07	0.52
22:CY:19:G:O6	22:CY:59:G:C6	2.63	0.52
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:85:LEU:O	26:D1:86:SER:HB3	2.09	0.52
33:D8:56:GLU:C	33:D8:58:ILE:N	2.66	0.52
35:DA:1280:G:C2'	35:DA:1281:G:H5"	2.39	0.52
35:DA:2833:G:C3'	35:DA:2834:G:C5'	2.87	0.52
38:DD:70:TRP:O	38:DD:73:VAL:HG23	2.10	0.52
38:DD:260:ARG:NH1	38:DD:267:SER:OG	2.43	0.52
39:DE:23:VAL:HG12	39:DE:173:VAL:HG21	1.91	0.52
40:DF:122:LYS:HE2	40:DF:122:LYS:CA	2.39	0.52
40:DF:187:VAL:HG12	47:DP:7:ARG:HD2	1.91	0.52
41:DG:60:LEU:HD13	41:DG:60:LEU:C	2.35	0.52
41:DG:172:LEU:C	41:DG:172:LEU:HD23	2.34	0.52
46:DO:77:ILE:HD13	51:DT:74:ARG:HG2	1.91	0.52
47:DP:64:LYS:C	47:DP:66:GLY:N	2.63	0.52
50:DS:34:HIS:HB3	50:DS:53:SER:CB	2.33	0.52
51:DT:38:ASN:C	51:DT:40:THR:H	2.18	0.52
56:DY:28:LYS:H	56:DY:28:LYS:HZ2	1.55	0.52
56:DY:42:VAL:CG1	56:DY:65:ALA:HB3	2.39	0.52
57:DZ:17:ALA:HA	57:DZ:20:ARG:HB2	1.92	0.52
57:DZ:111:VAL:O	57:DZ:112:ARG:CB	2.57	0.52
1:AA:346:G:OP1	51:BT:41:ARG:NH1	2.40	0.52
2:AB:111:ARG:NH2	2:AB:114:ARG:HG2	2.23	0.52
2:AB:162:ILE:O	2:AB:162:ILE:HG13	2.10	0.52
2:AB:189:ASP:C	2:AB:191:ASP:N	2.68	0.52
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.74	0.52
4:AD:209:ARG:HH11	4:AD:209:ARG:HG3	1.74	0.52
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	1.91	0.52
9:AI:28:VAL:HG13	9:AI:63:ILE:O	2.10	0.52
9:AI:56:LEU:C	9:AI:56:LEU:HD23	2.35	0.52
10:AJ:3:LYS:HD2	10:AJ:77:PRO:CD	2.40	0.52
10:AJ:24:VAL:HG21	10:AJ:37:PRO:HG3	1.92	0.52
12:AL:49:ASN:HD22	12:AL:49:ASN:N	2.00	0.52
22:AV:14:A:C6	22:AV:15:G:C4	2.98	0.52
23:AW:2:G:C2	23:AW:3:G:C4	2.98	0.52
23:AW:26:G:H2'	23:AW:27:C:N1	2.25	0.52
23:AW:30:U:H2'	23:AW:31:C:C5	2.34	0.52
33:B8:4:MET:O	33:B8:62:LEU:HD11	2.09	0.52
35:BA:105:C:O2'	56:BY:2:ARG:HG3	2.09	0.52
35:BA:866:A:N3	35:BA:866:A:H2'	2.25	0.52
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.09	0.52
35:BA:1608:A:H1'	35:BA:1610:A:OP2	2.10	0.52
35:BA:1747(A):G:O2'	35:BA:1748:G:H5"	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.91	0.52
37:BC:31:LYS:HE2	37:BC:181:PHE:O	2.09	0.52
42:BH:8:PRO:O	42:BH:9:ILE:HG22	2.09	0.52
43:BI:66:GLU:HA	43:BI:66:GLU:OE1	2.10	0.52
43:BI:127:VAL:C	43:BI:128:LEU:HD22	2.35	0.52
50:BS:74:ALA:HB1	50:BS:103:GLU:HB2	1.91	0.52
51:BT:27:THR:CG2	51:BT:28:VAL:H	2.17	0.52
51:BT:78:LEU:C	51:BT:79:HIS:ND1	2.68	0.52
51:BT:106:SER:O	51:BT:107:ASP:HB3	2.10	0.52
53:BV:28:GLU:OE1	53:BV:29:PRO:HD2	2.09	0.52
56:BY:32:PRO:O	56:BY:33:LYS:C	2.52	0.52
1:CA:433:C:H2'	1:CA:434:U:C6	2.45	0.52
1:CA:591:U:H2'	1:CA:592:G:H8	1.74	0.52
1:CA:1489:G:H2'	1:CA:1490:C:O4'	2.10	0.52
3:CC:119:ARG:NH2	3:CC:140:ARG:NH2	2.51	0.52
4:CD:171:GLY:C	4:CD:173:TRP:H	2.18	0.52
5:CE:148:VAL:C	5:CE:150:ARG:H	2.18	0.52
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.24	0.52
10:CJ:5:ARG:CG	10:CJ:71:LEU:HD11	2.39	0.52
18:CR:36:ASN:HB3	18:CR:39:VAL:CB	2.39	0.52
18:CR:52:PRO:O	18:CR:56:THR:HG23	2.10	0.52
19:CS:16:LEU:O	19:CS:20:LEU:HG	2.10	0.52
22:CV:8:U:H1'	22:CV:50:C:O2	2.09	0.52
23:CW:3:G:C6	23:CW:4:C:N4	2.78	0.52
23:CW:42:C:C2'	23:CW:43:G:C5'	2.88	0.52
30:D5:47:PRO:C	30:D5:49:CYS:H	2.17	0.52
35:DA:237:C:O2'	35:DA:238:C:H5'	2.10	0.52
35:DA:639:U:H2'	35:DA:640:C:C6	2.45	0.52
35:DA:705:A:H1'	38:DD:9:TYR:CE2	2.45	0.52
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.45	0.52
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.09	0.52
35:DA:2308:G:O6	35:DA:2310:A:H2'	2.10	0.52
37:DC:15:VAL:CG1	37:DC:33:LEU:HD11	2.40	0.52
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.75	0.52
47:DP:84:ASN:C	47:DP:86:LYS:N	2.68	0.52
49:DR:29:LEU:CD2	49:DR:70:LEU:HD11	2.40	0.52
49:DR:38:VAL:HB	49:DR:39:PRO:CD	2.36	0.52
50:DS:24:LEU:HB3	50:DS:85:VAL:HG12	1.91	0.52
53:DV:39:LEU:N	53:DV:39:LEU:HD22	2.24	0.52
56:DY:57:GLN:CG	56:DY:58:GLY:H	2.23	0.52
1:AA:460:G:N2	1:AA:471:G:C8	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.44	0.51
1:AA:1314:C:H5	19:AS:6:LYS:CE	2.22	0.51
2:AB:27:LYS:C	2:AB:29:ALA:H	2.17	0.51
2:AB:116:GLU:HA	2:AB:119:GLU:HB3	1.90	0.51
3:AC:73:PRO:O	3:AC:76:VAL:HG13	2.11	0.51
3:AC:95:THR:HG22	3:AC:97:LYS:H	1.73	0.51
3:AC:206:GLU:O	3:AC:207:VAL:C	2.54	0.51
5:AE:148:VAL:C	5:AE:150:ARG:H	2.18	0.51
7:AG:15:ASP:OD2	7:AG:18:TYR:HB2	2.11	0.51
10:AJ:100:THR:HG22	10:AJ:101:VAL:N	2.25	0.51
13:AM:73:GLU:O	13:AM:77:ASN:HB2	2.09	0.51
16:AP:48:TRP:O	16:AP:49:LEU:HB2	2.09	0.51
19:AS:73:GLU:O	19:AS:73:GLU:HG2	2.10	0.51
22:AV:7:U:H3'	22:AV:8:U:C5'	2.39	0.51
23:AW:57:U:C1'	23:AW:59:G:N7	2.73	0.51
26:B1:75:GLU:C	26:B1:77:ALA:H	2.17	0.51
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	2.10	0.51
35:BA:587:C:H3'	47:BP:33:ARG:NH2	2.25	0.51
35:BA:994:C:H3'	52:BU:54:LYS:HE3	1.92	0.51
35:BA:1472:A:H2'	35:BA:1473:G:O4'	2.10	0.51
35:BA:1598:C:H5'	55:BX:36:LYS:CB	2.40	0.51
38:BD:132:PRO:HD3	38:BD:190:TYR:CZ	2.45	0.51
42:BH:9:ILE:C	42:BH:9:ILE:HD13	2.35	0.51
46:BO:103:ALA:HB1	46:BO:105:GLU:OE1	2.10	0.51
48:BQ:135:ASP:OD1	48:BQ:135:ASP:N	2.42	0.51
53:BV:52:VAL:HG13	53:BV:52:VAL:O	2.08	0.51
56:BY:4:LYS:HG3	56:BY:5:MET:N	2.26	0.51
56:BY:44:ILE:C	56:BY:62:GLU:HG3	2.33	0.51
56:BY:68:HIS:ND1	56:BY:70:SER:HB3	2.25	0.51
56:BY:88:LYS:NZ	56:BY:93:GLY:C	2.68	0.51
1:CA:189(I):G:H2'	1:CA:189(J):G:C8	2.45	0.51
1:CA:414:A:O2'	1:CA:415:A:H5'	2.10	0.51
2:CB:138:LEU:O	2:CB:141:GLU:HB3	2.10	0.51
3:CC:103:VAL:CG1	3:CC:104:GLN:N	2.72	0.51
4:CD:126:ILE:O	4:CD:132:ARG:HB2	2.10	0.51
4:CD:168:ARG:HH11	4:CD:168:ARG:HG3	1.75	0.51
7:CG:120:ILE:H	7:CG:120:ILE:CD1	2.19	0.51
9:CI:48:GLU:HB3	9:CI:101:PHE:HE2	1.75	0.51
11:CK:39:PRO:C	11:CK:40:ILE:HD13	2.34	0.51
11:CK:57:THR:OG1	11:CK:58:PRO:HD2	2.10	0.51
17:CQ:13:ASP:C	17:CQ:15:MET:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CY:45:U:H2'	22:CY:46:U:O4'	2.10	0.51
26:D1:27:GLU:O	26:D1:28:GLY:C	2.53	0.51
27:D2:5:GLU:O	27:D2:9:GLN:HG3	2.10	0.51
27:D2:63:VAL:HA	27:D2:66:GLU:HG2	1.92	0.51
35:DA:17:G:H4'	52:DU:25:TRP:CH2	2.45	0.51
35:DA:57:C:O2'	35:DA:58:G:H5'	2.10	0.51
35:DA:146:G:H8	35:DA:146:G:H5'	1.75	0.51
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.45	0.51
35:DA:1997:G:O2'	35:DA:1998:G:H5'	2.10	0.51
37:DC:197:LEU:C	37:DC:199:ALA:N	2.68	0.51
38:DD:2:ALA:O	38:DD:3:VAL:HB	2.10	0.51
38:DD:30:GLU:CG	38:DD:63:ARG:CZ	2.84	0.51
38:DD:31:LYS:C	38:DD:33:LEU:N	2.68	0.51
38:DD:77:ALA:O	38:DD:116:GLN:HG2	2.09	0.51
40:DF:22:ALA:HB1	40:DF:26:ALA:CB	2.40	0.51
42:DH:70:THR:HG23	42:DH:74:ASN:HD21	1.75	0.51
42:DH:96:ALA:HA	42:DH:105:LEU:HA	1.92	0.51
42:DH:115:VAL:HG11	42:DH:148:ILE:HD13	1.92	0.51
42:DH:136:ILE:N	42:DH:136:ILE:CD1	2.73	0.51
43:DI:9:LEU:HB2	43:DI:12:LEU:O	2.09	0.51
47:DP:140:ALA:O	47:DP:141:ALA:HB3	2.09	0.51
51:DT:34:VAL:CG1	51:DT:35:LYS:N	2.73	0.51
51:DT:128:GLU:O	51:DT:129:ARG:C	2.53	0.51
54:DW:25:ARG:NH1	54:DW:25:ARG:HB2	2.25	0.51
55:DX:12:VAL:CG2	55:DX:27:THR:HG23	2.37	0.51
57:DZ:57:ILE:CG2	57:DZ:58:VAL:N	2.73	0.51
1:AA:162:A:C6	1:AA:163:C:H1'	2.45	0.51
1:AA:186:C:H5'	20:AT:78:ALA:HB1	1.93	0.51
1:AA:433:C:H2'	1:AA:434:U:C6	2.45	0.51
1:AA:536:C:H2'	1:AA:537:G:C8	2.45	0.51
1:AA:1106:G:OP1	3:AC:172:ARG:HD3	2.11	0.51
3:AC:84:ILE:HD11	3:AC:88:ARG:HH21	1.75	0.51
3:AC:132:ARG:HG2	3:AC:136:GLN:NE2	2.25	0.51
5:AE:103:GLY:O	5:AE:104:ALA:C	2.53	0.51
9:AI:118:LYS:HZ3	9:AI:118:LYS:HB3	1.74	0.51
13:AM:88:ARG:HG2	13:AM:88:ARG:NH1	2.21	0.51
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.10	0.51
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.24	0.51
23:AW:9:A:C6	23:AW:47:G:C6	2.98	0.51
23:AW:16:U:O3'	23:AW:62:U:O3'	2.28	0.51
22:AY:67:C:H3'	22:AY:67:C:C6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:75:A:O2'	22:AY:76:C:H5'	2.10	0.51
25:B0:10:THR:HG21	35:BA:2277:G:OP2	2.11	0.51
30:B5:47:PRO:C	30:B5:49:CYS:H	2.17	0.51
35:BA:2849:U:OP2	51:BT:95:ARG:NH1	2.43	0.51
37:BC:197:LEU:C	37:BC:199:ALA:N	2.69	0.51
38:BD:96:HIS:HA	38:BD:102:LYS:HB3	1.92	0.51
38:BD:260:ARG:NH1	38:BD:267:SER:OG	2.43	0.51
39:BE:98:PRO:HG3	39:BE:175:VAL:HG12	1.92	0.51
43:BI:13:GLY:O	43:BI:14:ASP:HB2	2.09	0.51
43:BI:98:ALA:O	43:BI:99:GLU:C	2.53	0.51
53:BV:19:LYS:HG3	53:BV:20:LEU:N	2.24	0.51
56:BY:36:ALA:HB1	56:BY:67:LEU:O	2.10	0.51
1:CA:254:G:H2'	1:CA:255:G:C8	2.41	0.51
1:CA:735:C:O2'	1:CA:736:C:H5'	2.10	0.51
1:CA:1122:U:H2'	1:CA:1123:A:H8	1.74	0.51
1:CA:1239:A:H62	1:CA:1299:A:H62	1.56	0.51
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.75	0.51
2:CB:71:VAL:HB	2:CB:164:VAL:CG1	2.36	0.51
2:CB:98:LEU:HB2	2:CB:101:MET:HE3	1.93	0.51
3:CC:51:GLY:O	3:CC:115:LEU:HD21	2.10	0.51
10:CJ:3:LYS:NZ	10:CJ:77:PRO:HD2	2.24	0.51
10:CJ:34:VAL:HG13	10:CJ:73:ASP:C	2.36	0.51
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.75	0.51
12:CL:37:CYS:O	12:CL:38:THR:C	2.52	0.51
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.75	0.51
15:CO:63:ARG:HG2	15:CO:67:LEU:HD11	1.92	0.51
17:CQ:89:LEU:O	17:CQ:92:ARG:HB3	2.10	0.51
18:CR:73:ALA:CB	18:CR:79:LEU:HD12	2.41	0.51
22:CY:50:C:O2	22:CY:61:A:H1'	2.11	0.51
26:D1:51:VAL:HG22	26:D1:52:ARG:N	2.25	0.51
26:D1:68:PRO:C	26:D1:70:VAL:N	2.68	0.51
31:D6:5:VAL:HG22	31:D6:6:ARG:N	2.25	0.51
35:DA:185:U:H4'	35:DA:218:A:H4'	1.92	0.51
35:DA:825:C:O2'	35:DA:826:U:H5'	2.09	0.51
35:DA:979:G:H3'	35:DA:980:A:H5"	1.90	0.51
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.74	0.51
36:DB:55:U:O2'	36:DB:56:G:H5'	2.10	0.51
38:DD:244:ARG:HG2	38:DD:245:PRO:HB3	1.92	0.51
40:DF:101:LEU:HD12	40:DF:102:PRO:CD	2.38	0.51
40:DF:142:TRP:O	40:DF:145:GLU:HB2	2.11	0.51
47:DP:99:LEU:HD23	47:DP:99:LEU:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:10:LEU:HD22	49:DR:17:ARG:CD	2.37	0.51
52:DU:104:GLN:O	52:DU:107:ALA:HB3	2.11	0.51
57:DZ:76:LEU:O	57:DZ:84:GLU:OE1	2.27	0.51
1:AA:1057:G:H5"	3:AC:154:SER:CB	2.13	0.51
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.45	0.51
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.10	0.51
2:AB:52:GLU:CG	2:AB:56:ARG:HH12	2.24	0.51
4:AD:145:GLU:HG2	4:AD:184:LYS:HG2	1.93	0.51
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.25	0.51
10:AJ:3:LYS:HZ3	10:AJ:77:PRO:HD2	1.75	0.51
13:AM:92:HIS:HD2	13:AM:110:ARG:NH2	2.09	0.51
17:AQ:24:GLU:HG2	17:AQ:39:SER:HB3	1.93	0.51
23:AW:57:U:C2'	23:AW:59:G:N7	2.73	0.51
22:AY:4:C:H42	22:AY:72:C:H5	1.57	0.51
22:AY:45:U:H2'	22:AY:46:U:C6	2.44	0.51
22:AY:55:G:C2	22:AY:56:U:O2	2.63	0.51
30:B5:50:GLY:CA	30:B5:55:ARG:HB2	2.40	0.51
35:BA:17:G:H4'	52:BU:25:TRP:CH2	2.45	0.51
35:BA:676:A:H2	35:BA:802:A:N6	2.03	0.51
35:BA:743:G:O2'	35:BA:744:G:H5'	2.09	0.51
35:BA:747:U:O2	35:BA:2014:A:H1'	2.10	0.51
35:BA:1779:U:C5	35:BA:1784:A:N7	2.68	0.51
35:BA:1856:G:H2'	35:BA:1857:G:C5'	2.40	0.51
35:BA:2360:A:O2'	35:BA:2361:A:P	2.68	0.51
35:BA:2389:G:H5"	35:BA:2390:U:H5'	1.92	0.51
36:BB:55:U:O2'	36:BB:56:G:H5'	2.10	0.51
39:BE:51:PHE:C	39:BE:74:PRO:HB3	2.36	0.51
40:BF:7:TYR:HB2	40:BF:16:GLY:C	2.36	0.51
40:BF:31:HIS:O	40:BF:34:TRP:HB3	2.10	0.51
41:BG:129:GLY:O	41:BG:130:ASN:HB2	2.10	0.51
45:BN:68:GLU:HG2	45:BN:88:GLU:OE2	2.10	0.51
45:BN:71:ILE:HG21	45:BN:84:LYS:HB3	1.92	0.51
49:BR:99:LYS:HD3	49:BR:99:LYS:H	1.75	0.51
53:BV:79:VAL:O	53:BV:79:VAL:HG13	2.11	0.51
1:CA:256:U:H2'	1:CA:257:G:O4'	2.10	0.51
1:CA:523:A:N6	12:CL:92:ASP:HB2	2.26	0.51
1:CA:668:G:O2'	15:CO:46:HIS:HD2	1.94	0.51
1:CA:818:G:C3'	1:CA:819:A:H5"	2.40	0.51
1:CA:1196:U:C5	24:CX:23:A:C6	2.99	0.51
1:CA:1264:C:H2'	1:CA:1265:G:C8	2.45	0.51
1:CA:1491:G:H5'	1:CA:1491:G:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:137:ARG:HD3	2:CB:138:LEU:N	2.25	0.51
2:CB:172:ILE:H	2:CB:172:ILE:CD1	2.09	0.51
5:CE:9:LYS:O	5:CE:32:VAL:HG13	2.10	0.51
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.09	0.51
6:CF:68:PRO:HG3	6:CF:71:ARG:NH2	2.25	0.51
6:CF:91:VAL:HG11	18:CR:72:ARG:HH12	1.75	0.51
7:CG:145:ALA:O	7:CG:146:GLU:CB	2.58	0.51
9:CI:99:LEU:C	9:CI:101:PHE:H	2.19	0.51
10:CJ:8:LEU:HD23	10:CJ:96:ILE:CG2	2.40	0.51
16:CP:80:PHE:H	16:CP:80:PHE:HD1	1.59	0.51
22:CV:4:C:N1	22:CV:5:C:C5	2.79	0.51
22:CV:58:C:H42	41:DG:84:LYS:HE2	1.73	0.51
33:D8:7:HIS:CD2	47:DP:50:ARG:HD3	2.45	0.51
35:DA:654(A):G:O2'	35:DA:654(B):C:H5'	2.10	0.51
35:DA:709:U:H2'	35:DA:710:G:C8	2.46	0.51
35:DA:999:U:O2'	35:DA:1000:A:H5'	2.10	0.51
35:DA:1682:G:H2'	35:DA:1683:C:C6	2.45	0.51
35:DA:2267:A:H5"	35:DA:2268:A:C5'	2.40	0.51
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.58	0.51
36:DB:56:G:H4'	36:DB:57:A:H8	1.72	0.51
38:DD:131:LEU:HD13	38:DD:136:ILE:HG12	1.91	0.51
43:DI:77:LEU:HD23	43:DI:77:LEU:C	2.34	0.51
47:DP:71:VAL:O	47:DP:73:GLY:N	2.43	0.51
50:DS:35:ILE:CG2	50:DS:53:SER:HB2	2.41	0.51
51:DT:53:ARG:O	51:DT:53:ARG:HG3	2.10	0.51
56:DY:4:LYS:HG3	56:DY:5:MET:N	2.25	0.51
57:DZ:95:PRO:HA	57:DZ:129:SER:CA	2.41	0.51
1:AA:67:C:O2'	1:AA:171:A:N3	2.38	0.51
1:AA:276:G:O2'	1:AA:277:C:H5'	2.08	0.51
1:AA:575:G:OP1	1:AA:575:G:H4'	2.10	0.51
1:AA:738:C:H2'	1:AA:739:C:C6	2.46	0.51
1:AA:1279:A:H2'	1:AA:1279:A:N3	2.24	0.51
1:AA:1517:G:H1'	35:BA:1919:A:O3'	2.09	0.51
4:AD:30:LYS:CB	4:AD:35:ARG:HD2	2.41	0.51
4:AD:98:GLU:CG	4:AD:103:ASN:HD21	2.21	0.51
8:AH:118:VAL:C	8:AH:119:LEU:HD23	2.35	0.51
9:AI:48:GLU:HB3	9:AI:101:PHE:HE2	1.76	0.51
10:AJ:5:ARG:CG	10:AJ:71:LEU:HD11	2.41	0.51
10:AJ:8:LEU:HD23	10:AJ:96:ILE:CG2	2.39	0.51
11:AK:67:ASP:O	11:AK:71:LYS:HG3	2.10	0.51
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.92	0.51
23:AW:29:A:C4	23:AW:30:U:C5	2.98	0.51
23:AW:44:A:C6	23:AW:45:U:C5	2.99	0.51
22:AY:31:C:H42	22:AY:43:G:H1	1.59	0.51
28:B3:46:ASN:O	28:B3:50:VAL:HG22	2.10	0.51
35:BA:78:A:H2'	35:BA:79:G:H8	1.74	0.51
35:BA:107:C:H2'	35:BA:108:U:C6	2.45	0.51
35:BA:528:A:N1	35:BA:2043:C:O5'	2.44	0.51
35:BA:1015:G:H8	35:BA:1015:G:H5'	1.75	0.51
35:BA:2148:G:H2'	35:BA:2149:G:H8	1.75	0.51
36:BB:106:G:H5"	57:BZ:31:ARG:HB3	1.92	0.51
38:BD:77:ALA:O	38:BD:116:GLN:HG2	2.10	0.51
39:BE:79:ARG:N	39:BE:79:ARG:HD2	2.26	0.51
40:BF:22:ALA:HB1	40:BF:26:ALA:CB	2.40	0.51
40:BF:22:ALA:C	40:BF:24:LEU:H	2.18	0.51
43:BI:10:GLU:O	43:BI:12:LEU:HD23	2.10	0.51
51:BT:12:SER:O	51:BT:13:ARG:CZ	2.59	0.51
51:BT:28:VAL:HG12	51:BT:29:ARG:HH11	1.76	0.51
51:BT:31:SER:OG	51:BT:32:TYR:N	2.43	0.51
57:BZ:38:TYR:O	57:BZ:38:TYR:CG	2.63	0.51
1:CA:197:A:N7	1:CA:221:C:H4'	2.26	0.51
1:CA:445:G:H2'	1:CA:446:G:C8	2.44	0.51
1:CA:490:G:H2'	1:CA:491:G:C8	2.44	0.51
1:CA:692:U:H5	11:CK:26:ASN:HD22	1.58	0.51
1:CA:879:C:O2'	1:CA:880:C:H5'	2.11	0.51
1:CA:1139:G:N3	1:CA:1141:C:N4	2.58	0.51
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.68	0.51
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.45	0.51
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.68	0.51
4:CD:135:LEU:C	4:CD:137:SER:H	2.18	0.51
5:CE:150:ARG:NH1	5:CE:150:ARG:HB2	2.25	0.51
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.44	0.51
7:CG:136:LYS:NZ	7:CG:136:LYS:HB3	2.26	0.51
11:CK:105:VAL:HB	11:CK:108:ILE:HD11	1.92	0.51
12:CL:35:GLY:HA3	12:CL:58:VAL:CG1	2.32	0.51
12:CL:41:ARG:HH11	12:CL:41:ARG:CB	2.08	0.51
12:CL:41:ARG:CZ	12:CL:43:VAL:HG12	2.41	0.51
12:CL:42:THR:HA	12:CL:54:LYS:HA	1.92	0.51
22:CY:19:G:O5'	57:DZ:186:GLU:O	2.27	0.51
35:DA:70:G:H2'	35:DA:113:G:O2'	2.10	0.51
35:DA:78:A:H2'	35:DA:79:G:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:271(A):A:H5'	35:DA:271(B):C:OP2	2.09	0.51
35:DA:310:A:OP1	56:DY:17:SER:O	2.27	0.51
35:DA:648:G:O2'	35:DA:649:G:H5'	2.10	0.51
35:DA:654(V):A:H3'	35:DA:655:A:H2'	1.92	0.51
35:DA:657:U:H2'	35:DA:658:C:C6	2.46	0.51
35:DA:847:U:OP2	35:DA:928:G:O6	2.27	0.51
35:DA:1162:G:H4'	53:DV:24:LYS:HB2	1.93	0.51
35:DA:1488:G:H5'	35:DA:1489:U:OP2	2.10	0.51
35:DA:2086:U:OP1	38:DD:262:ARG:HD3	2.11	0.51
35:DA:2193:G:H2'	35:DA:2194:G:C8	2.45	0.51
35:DA:2884:U:C2'	35:DA:2885:C:H5'	2.40	0.51
37:DC:31:LYS:HZ1	37:DC:183:PRO:HD3	1.76	0.51
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.25	0.51
39:DE:51:PHE:C	39:DE:74:PRO:HB3	2.36	0.51
39:DE:79:ARG:N	39:DE:79:ARG:HD2	2.25	0.51
42:DH:7:LEU:HD22	42:DH:65:HIS:NE2	2.25	0.51
46:DO:2:ILE:CD1	46:DO:82:ASN:ND2	2.69	0.51
56:DY:4:LYS:HD2	56:DY:32:PRO:CG	2.41	0.51
57:DZ:28:MET:HE2	57:DZ:59:LEU:HD12	1.93	0.51
1:AA:131:C:H2'	1:AA:132:C:C6	2.46	0.51
1:AA:359:U:H2'	1:AA:360:A:H8	1.75	0.51
1:AA:939:G:H5"	7:AG:102:ARG:NH1	2.25	0.51
1:AA:956:U:O2'	1:AA:957:U:H5'	2.11	0.51
1:AA:1442(A):G:H2'	51:BT:118:ARG:HD2	1.93	0.51
2:AB:46:LYS:HG3	2:AB:49:GLU:OE1	2.11	0.51
3:AC:107:GLN:CD	3:AC:107:GLN:N	2.65	0.51
3:AC:108:ASN:OD1	3:AC:110:ASN:HB2	2.11	0.51
5:AE:18:ARG:HG2	5:AE:25:ARG:O	2.10	0.51
5:AE:36:ASP:O	5:AE:37:ARG:HG3	2.11	0.51
5:AE:51:VAL:CB	5:AE:52:PRO:HD3	2.30	0.51
8:AH:1:MET:HE3	8:AH:3:THR:HG23	1.93	0.51
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.10	0.51
13:AM:3:ARG:HB2	29:B4:34:GLU:HG2	1.92	0.51
15:AO:64:ARG:O	15:AO:65:ARG:C	2.53	0.51
20:AT:53:LEU:HD12	20:AT:100:ILE:CG2	2.40	0.51
22:AV:19:G:H1'	22:AV:62:U:C4	2.46	0.51
22:AV:27:C:H3'	22:AV:27:C:H6	1.76	0.51
22:AV:57:U:O2'	22:AV:59:G:N7	2.32	0.51
23:AW:7:U:N3	23:AW:69:G:C6	2.78	0.51
23:AW:40:A:H2'	23:AW:41:C:C6	2.42	0.51
23:AW:53:U:C2	23:AW:66:G:N1	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:50:C:O2	22:AY:61:A:H1'	2.11	0.51
27:B2:21:LEU:HD12	27:B2:64:LEU:HA	1.93	0.51
30:B5:49:CYS:O	30:B5:50:GLY:C	2.52	0.51
35:BA:848:G:H2'	35:BA:849:A:C8	2.45	0.51
35:BA:2301:C:H2'	35:BA:2302:G:O4'	2.10	0.51
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.46	0.51
37:BC:216:THR:HB	37:BC:222:SER:CB	2.40	0.51
38:BD:30:GLU:CG	38:BD:63:ARG:NE	2.71	0.51
41:BG:83:ARG:C	41:BG:85:GLY:H	2.19	0.51
43:BI:4:ILE:HG12	43:BI:18:VAL:CG2	2.40	0.51
43:BI:15:VAL:O	43:BI:17:GLN:N	2.43	0.51
43:BI:83:ALA:HB2	43:BI:88:ILE:HG12	1.92	0.51
45:BN:56:ASN:HA	45:BN:124:ALA:C	2.35	0.51
50:BS:16:ASN:OD1	50:BS:17:ARG:N	2.44	0.51
56:BY:26:LYS:O	56:BY:27:VAL:C	2.53	0.51
56:BY:46:LYS:H	56:BY:62:GLU:CB	2.23	0.51
1:CA:10:A:OP2	5:CE:126:ARG:HB3	2.10	0.51
1:CA:369:C:H2'	1:CA:369:C:O2	2.09	0.51
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.73	0.51
2:CB:87:ARG:O	2:CB:223:ILE:HD11	2.11	0.51
3:CC:119:ARG:HE	3:CC:140:ARG:HH21	1.58	0.51
10:CJ:6:ILE:HG22	10:CJ:98:ILE:CG1	2.26	0.51
11:CK:99:GLN:HG2	11:CK:105:VAL:HG21	1.93	0.51
13:CM:73:GLU:O	13:CM:77:ASN:HB2	2.10	0.51
20:CT:53:LEU:HD12	20:CT:100:ILE:CG2	2.41	0.51
20:CT:99:LEU:O	20:CT:100:ILE:C	2.54	0.51
22:CV:12:U:C4	22:CV:13:U:C5	2.98	0.51
22:CV:30:U:C2	22:CV:31:C:C5	2.99	0.51
22:CY:78:A:C2	35:DA:2583:G:N3	2.79	0.51
27:D2:47:ASN:HD22	35:DA:94(A):G:H21	1.58	0.51
28:D3:36:VAL:O	28:D3:36:VAL:HG23	2.11	0.51
30:D5:3:LYS:HD3	35:DA:747:U:O4	2.11	0.51
30:D5:40:LYS:HZ2	30:D5:46:CYS:H	1.58	0.51
35:DA:748:G:C8	54:DW:89:ALA:HB1	2.45	0.51
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.45	0.51
35:DA:1925:C:O2'	35:DA:1926:U:H5'	2.10	0.51
35:DA:2406:U:O4	47:DP:70:GLN:HB3	2.09	0.51
35:DA:2728:U:O2'	35:DA:2729:G:H5'	2.10	0.51
36:DB:73:A:N6	57:DZ:29:TYR:CE2	2.70	0.51
38:DD:241:PRO:O	38:DD:243:GLY:N	2.43	0.51
39:DE:39:PRO:HA	39:DE:43:GLY:HA2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:45:THR:O	39:DE:46:ALA:HB2	2.10	0.51
43:DI:83:ALA:CB	43:DI:88:ILE:HG12	2.39	0.51
51:DT:57:PHE:O	51:DT:59:THR:HG23	2.10	0.51
51:DT:78:LEU:C	51:DT:79:HIS:ND1	2.68	0.51
1:AA:358:U:O2'	1:AA:359:U:H5'	2.11	0.51
1:AA:1408:A:H5'	35:BA:1912:A:C6	2.45	0.51
2:AB:114:ARG:HA	2:AB:117:GLU:HB3	1.93	0.51
2:AB:224:GLN:C	2:AB:226:ARG:H	2.16	0.51
3:AC:55:VAL:O	3:AC:57:ILE:HG13	2.11	0.51
4:AD:126:ILE:O	4:AD:132:ARG:HB2	2.10	0.51
4:AD:152:SER:HA	4:AD:155:LEU:CG	2.41	0.51
5:AE:6:PHE:HD1	5:AE:63:ARG:NH1	2.08	0.51
7:AG:71:PRO:HG3	7:AG:99:LEU:HD13	1.92	0.51
7:AG:95:ARG:HG2	7:AG:99:LEU:CD1	2.40	0.51
8:AH:54:ASP:C	8:AH:56:LYS:N	2.68	0.51
11:AK:99:GLN:HG2	11:AK:105:VAL:HG21	1.92	0.51
22:AY:19:G:C4	22:AY:59:G:N2	2.79	0.51
22:AY:60:A:N6	57:BZ:186:GLU:CD	2.68	0.51
35:BA:185:U:H4'	35:BA:218:A:H4'	1.93	0.51
35:BA:491:G:O2'	35:BA:492:A:H5'	2.10	0.51
35:BA:1485:G:H2'	35:BA:1486:A:C8	2.45	0.51
35:BA:1887:C:H3'	35:BA:1888:G:H5"	1.93	0.51
35:BA:1996:C:H5	46:BO:32:TYR:OH	1.94	0.51
37:BC:15:VAL:CG1	37:BC:33:LEU:HD11	2.41	0.51
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.10	0.51
46:BO:49:ARG:HA	46:BO:53:LYS:NZ	2.26	0.51
46:BO:77:ILE:HD11	51:BT:72:VAL:HG12	1.93	0.51
47:BP:33:ARG:O	47:BP:34:GLY:C	2.54	0.51
47:BP:146:VAL:O	47:BP:148:LEU:HG	2.11	0.51
50:BS:48:LEU:HD12	50:BS:48:LEU:N	2.26	0.51
50:BS:90:GLY:O	50:BS:92:TYR:N	2.43	0.51
51:BT:28:VAL:CG2	51:BT:46:GLU:HA	2.41	0.51
51:BT:102:ILE:HB	51:BT:110:ILE:CD1	2.41	0.51
54:BW:56:ALA:O	54:BW:60:ASN:HB3	2.11	0.51
57:BZ:15:PRO:O	57:BZ:19:ARG:HG3	2.11	0.51
1:CA:170:U:H2'	1:CA:171:A:H8	1.75	0.51
1:CA:190:U:H2'	1:CA:191:G:C8	2.45	0.51
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.46	0.51
1:CA:1279:A:H2	10:CJ:43:ARG:HH22	1.57	0.51
1:CA:1494:G:OP2	1:CA:1494:G:H4'	2.10	0.51
2:CB:80:ILE:HG21	2:CB:212:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:58:GLU:O	3:CC:59:ARG:HG3	2.11	0.51
8:CH:118:VAL:C	8:CH:119:LEU:HD23	2.36	0.51
12:CL:120:TYR:N	12:CL:120:TYR:CD1	2.77	0.51
13:CM:92:HIS:HD2	13:CM:110:ARG:NH2	2.08	0.51
20:CT:81:LYS:C	20:CT:83:ARG:H	2.19	0.51
20:CT:93:GLU:O	20:CT:95:ALA:N	2.44	0.51
22:CV:19:G:H1'	22:CV:62:U:C4	2.46	0.51
22:CY:35:U:C3'	22:CY:36:AG9:H15'	2.33	0.51
28:D3:8:LEU:HD12	28:D3:30:ARG:O	2.10	0.51
28:D3:52:HIS:CD2	28:D3:52:HIS:H	2.27	0.51
30:D5:40:LYS:HE2	30:D5:46:CYS:CB	2.41	0.51
31:D6:15:GLU:OE2	31:D6:44:ARG:NH2	2.44	0.51
35:DA:34:C:H41	35:DA:455:C:H5'	1.76	0.51
35:DA:653:A:H5'	35:DA:654:A:OP2	2.11	0.51
35:DA:960:A:N6	48:DQ:83:MET:HE2	2.24	0.51
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.46	0.51
35:DA:1542:A:C8	35:DA:1542:A:C3'	2.91	0.51
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.40	0.51
35:DA:2562:U:H2'	35:DA:2563:U:H5'	1.92	0.51
38:DD:125:ILE:HD13	38:DD:131:LEU:HD21	1.93	0.51
40:DF:22:ALA:C	40:DF:24:LEU:H	2.19	0.51
40:DF:157:VAL:HG22	40:DF:194:MET:HG2	1.93	0.51
46:DO:77:ILE:HD11	51:DT:72:VAL:HG12	1.92	0.51
47:DP:7:ARG:NH1	47:DP:7:ARG:CB	2.73	0.51
47:DP:61:ARG:HD2	47:DP:61:ARG:N	2.24	0.51
47:DP:71:VAL:HG13	47:DP:72:PRO:CD	2.41	0.51
47:DP:107:LYS:C	47:DP:109:GLY:N	2.67	0.51
47:DP:127:ALA:HB3	47:DP:130:PHE:CE1	2.46	0.51
49:DR:10:LEU:HD13	49:DR:17:ARG:NH1	2.26	0.51
51:DT:34:VAL:CG1	51:DT:35:LYS:H	2.23	0.51
53:DV:35:LEU:O	53:DV:36:PRO:C	2.51	0.51
53:DV:51:VAL:CG1	53:DV:52:VAL:H	2.23	0.51
57:DZ:37:VAL:O	57:DZ:38:TYR:HB3	2.09	0.51
57:DZ:116:VAL:O	57:DZ:175:VAL:HG22	2.11	0.51
57:DZ:149:SER:HB2	57:DZ:173:ALA:HA	1.92	0.51
1:AA:818:G:C3'	1:AA:819:A:H5"	2.40	0.51
1:AA:1502:A:H2	1:AA:1505:G:C2	2.29	0.51
3:AC:19:GLU:O	3:AC:56:ASP:HA	2.10	0.51
3:AC:148:GLY:CA	3:AC:203:PHE:HB3	2.41	0.51
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.11	0.51
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:21:LYS:O	12:AL:23:LYS:N	2.44	0.51
17:AQ:89:LEU:O	17:AQ:92:ARG:HB3	2.10	0.51
18:AR:23:LYS:HB2	18:AR:56:THR:O	2.11	0.51
22:AV:12:U:N3	22:AV:26:G:C2	2.79	0.51
22:AV:51:G:OP1	22:AV:52:C:OP2	2.29	0.51
32:B7:35:ARG:HD3	35:BA:54:G:O2'	2.10	0.51
33:B8:31:HIS:HE1	35:BA:2392:A:OP2	1.93	0.51
33:B8:56:GLU:C	33:B8:58:ILE:N	2.67	0.51
35:BA:271(P):C:C2'	35:BA:271(Q):G:H5'	2.41	0.51
35:BA:350:U:H2'	35:BA:351:G:O4'	2.11	0.51
35:BA:748:G:C8	54:BW:89:ALA:HB1	2.44	0.51
35:BA:1266:G:P	54:BW:15:ARG:HH22	2.34	0.51
35:BA:2193:G:H2'	35:BA:2194:G:C8	2.46	0.51
35:BA:2222:G:O2'	35:BA:2223:G:H5'	2.10	0.51
35:BA:2712:U:O2	35:BA:2712:U:H5'	2.10	0.51
35:BA:2887:U:O2'	35:BA:2888:C:H5'	2.11	0.51
38:BD:44:ASN:OD1	38:BD:44:ASN:N	2.43	0.51
39:BE:12:THR:O	39:BE:23:VAL:HG22	2.11	0.51
41:BG:97:ASP:C	41:BG:99:MET:H	2.16	0.51
42:BH:41:MET:CG	42:BH:42:ARG:N	2.54	0.51
42:BH:121:ILE:CD1	42:BH:144:VAL:HG21	2.41	0.51
49:BR:75:LEU:HD13	49:BR:75:LEU:O	2.11	0.51
53:BV:39:LEU:N	53:BV:39:LEU:HD22	2.26	0.51
55:BX:56:THR:HG22	55:BX:79:ALA:HB2	1.92	0.51
57:BZ:13:GLU:O	57:BZ:14:LYS:C	2.52	0.51
57:BZ:141:VAL:HG13	57:BZ:144:LEU:CD2	2.41	0.51
1:CA:166:G:O2'	1:CA:167:G:H5'	2.11	0.51
3:CC:9:GLY:HA3	14:CN:49:HIS:HA	1.93	0.51
3:CC:107:GLN:CD	3:CC:107:GLN:N	2.66	0.51
8:CH:20:TYR:HA	8:CH:65:TYR:HE2	1.73	0.51
10:CJ:24:VAL:HG21	10:CJ:37:PRO:HG3	1.91	0.51
12:CL:90:VAL:CG2	12:CL:99:HIS:HE2	2.24	0.51
13:CM:24:GLY:C	13:CM:25:ILE:HG13	2.36	0.51
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.10	0.51
22:CV:76:C:C2'	22:CV:77:C:C5'	2.89	0.51
23:CW:23:A:H5'	23:CW:24:A:OP1	2.11	0.51
23:CW:27:C:H5"	23:CW:28:G:OP1	2.11	0.51
23:CW:41:C:OP1	23:CW:41:C:O4'	2.28	0.51
26:D1:52:ARG:NH2	35:DA:2218:U:H1'	2.14	0.51
26:D1:56:GLN:HB3	26:D1:87:PRO:HB3	1.91	0.51
32:D7:19:ARG:HH11	32:D7:19:ARG:HG2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2513:G:H2'	35:DA:2514:U:C6	2.46	0.51
35:DA:2846:G:H2'	35:DA:2847:U:O4'	2.11	0.51
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.76	0.51
42:DH:127:GLU:HG3	42:DH:130:ARG:HE	1.75	0.51
43:DI:48:GLU:OE2	43:DI:52:ARG:HD3	2.10	0.51
43:DI:113:ARG:HH11	43:DI:113:ARG:CB	2.18	0.51
47:DP:95:VAL:CG2	47:DP:125:VAL:HG23	2.41	0.51
47:DP:99:LEU:HD23	47:DP:99:LEU:O	2.11	0.51
50:DS:13:ARG:CG	50:DS:14:VAL:N	2.74	0.51
52:DU:90:VAL:HG21	53:DV:47:VAL:HG21	1.93	0.51
56:DY:44:ILE:C	56:DY:62:GLU:HG3	2.36	0.51
57:DZ:107:THR:HG23	57:DZ:111:VAL:HB	1.91	0.51
1:AA:266:G:H5"	1:AA:268:C:N4	2.15	0.51
1:AA:406:G:N2	1:AA:437:U:H3	2.09	0.51
5:AE:9:LYS:C	5:AE:32:VAL:HG13	2.35	0.51
5:AE:144:THR:OG1	5:AE:146:ALA:HB3	2.11	0.51
7:AG:71:PRO:HD3	7:AG:103:TRP:HZ3	1.76	0.51
7:AG:95:ARG:HG2	7:AG:99:LEU:HD11	1.92	0.51
9:AI:79:LEU:HD11	9:AI:83:ARG:NH2	2.25	0.51
9:AI:85:LEU:HD13	9:AI:92:TYR:CD2	2.46	0.51
13:AM:84:ILE:O	13:AM:84:ILE:HG22	2.09	0.51
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.11	0.51
16:AP:5:ARG:CB	16:AP:67:THR:OG1	2.59	0.51
23:AW:68:A:C5	23:AW:69:G:C8	2.99	0.51
29:B4:51:ASP:OD1	29:B4:51:ASP:C	2.54	0.51
35:BA:536:A:P	52:BU:53:ARG:HH11	2.34	0.51
35:BA:1541:G:H4'	35:BA:1542:A:O4'	2.11	0.51
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.93	0.51
38:BD:21:PHE:HB3	38:BD:24:ILE:CD1	2.39	0.51
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	1.93	0.51
39:BE:80:GLU:O	39:BE:81:ILE:HD13	2.11	0.51
39:BE:117:MET:O	39:BE:118:LYS:HB2	2.10	0.51
40:BF:157:VAL:HG22	40:BF:194:MET:HG2	1.92	0.51
41:BG:128:ARG:C	41:BG:129:GLY:O	2.51	0.51
42:BH:84:SER:O	42:BH:85:LYS:HB2	2.11	0.51
42:BH:119:GLU:HG2	42:BH:120:GLY:N	2.26	0.51
47:BP:131:SER:O	47:BP:132:LYS:C	2.54	0.51
50:BS:89:ARG:HH11	50:BS:89:ARG:CG	2.23	0.51
51:BT:34:VAL:CG1	51:BT:35:LYS:N	2.74	0.51
51:BT:124:ASP:HB3	51:BT:125:ARG:HH12	1.75	0.51
52:BU:92:ARG:NH2	53:BV:10:LYS:CG	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:74:PRO:O	56:BY:80:GLY:HA2	2.11	0.51
57:BZ:39:VAL:HG23	57:BZ:40:ASP:N	2.26	0.51
1:CA:14:U:O2	1:CA:17:U:H5	1.94	0.51
1:CA:448:A:P	1:CA:485:G:H22	2.33	0.51
1:CA:472:A:O2'	16:CP:81:ARG:HA	2.10	0.51
1:CA:927:G:H5'	1:CA:927:G:H8	1.76	0.51
2:CB:27:LYS:C	2:CB:29:ALA:H	2.18	0.51
5:CE:137:GLU:HG3	5:CE:141:GLN:NE2	2.26	0.51
7:CG:15:ASP:OD2	7:CG:18:TYR:HB2	2.10	0.51
13:CM:90:LEU:O	13:CM:91:ARG:CG	2.58	0.51
14:CN:12:ARG:HH11	14:CN:12:ARG:HB3	1.74	0.51
22:CV:3:G:H1	22:CV:72:C:N4	2.09	0.51
22:CV:10:G:C2	22:CV:28:G:H1'	2.45	0.51
22:CY:4:C:O2'	22:CY:5:C:OP2	2.26	0.51
22:CY:11:C:C2'	22:CY:12:U:H6	2.21	0.51
22:CY:30:U:C2	22:CY:31:C:C5	2.99	0.51
33:D8:31:HIS:HE1	35:DA:2392:A:OP2	1.93	0.51
35:DA:271(M):G:O2'	35:DA:271(O):C:H5'	2.11	0.51
35:DA:276:A:OP1	35:DA:278:A:H1'	2.10	0.51
35:DA:743:G:O2'	35:DA:744:G:H5'	2.11	0.51
35:DA:1472:A:H2'	35:DA:1473:G:O4'	2.11	0.51
35:DA:1666:G:C2'	35:DA:1667:G:H5'	2.40	0.51
35:DA:2122:U:H2'	35:DA:2123:G:H8	1.75	0.51
35:DA:2672:G:H3'	35:DA:2673:G:H5"	1.91	0.51
35:DA:2789:C:H1'	35:DA:2892:A:C2	2.46	0.51
38:DD:21:PHE:HB3	38:DD:24:ILE:CD1	2.38	0.51
39:DE:65:GLY:O	39:DE:67:PHE:N	2.43	0.51
41:DG:18:GLU:O	41:DG:18:GLU:HG3	2.09	0.51
47:DP:33:ARG:O	47:DP:35:HIS:O	2.28	0.51
48:DQ:27:VAL:HG12	48:DQ:28:ALA:N	2.24	0.51
49:DR:11:ASN:OD1	49:DR:11:ASN:C	2.53	0.51
51:DT:54:ARG:HG2	51:DT:54:ARG:NH1	2.20	0.51
52:DU:83:LEU:H	52:DU:83:LEU:CD2	2.11	0.51
54:DW:75:TYR:CE1	54:DW:104:THR:HB	2.46	0.51
57:DZ:125:LEU:HD12	57:DZ:126:VAL:H	1.76	0.51
1:AA:147:G:H1	1:AA:175:C:H42	1.59	0.51
1:AA:224:C:H2'	1:AA:225:C:C6	2.46	0.51
1:AA:232:G:H2'	1:AA:233:C:C6	2.46	0.51
1:AA:398:C:H2'	1:AA:399:G:C8	2.46	0.51
1:AA:751:U:C2'	1:AA:752:G:H5'	2.41	0.51
1:AA:837:G:O2'	1:AA:838:G:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.10	0.51
2:AB:52:GLU:HG2	2:AB:56:ARG:HH12	1.75	0.51
2:AB:80:ILE:HG21	2:AB:212:GLN:HA	1.93	0.51
2:AB:138:LEU:O	2:AB:141:GLU:HB3	2.10	0.51
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.93	0.51
12:AL:84:LEU:HD23	12:AL:84:LEU:C	2.36	0.51
13:AM:23:TYR:CE2	13:AM:71:ARG:HB2	2.45	0.51
14:AN:13:THR:N	14:AN:14:PRO:CD	2.74	0.51
14:AN:29:ARG:HH11	14:AN:29:ARG:HG3	1.76	0.51
16:AP:69:THR:O	16:AP:69:THR:OG1	2.28	0.51
18:AR:73:ALA:CB	18:AR:79:LEU:HD12	2.40	0.51
20:AT:81:LYS:C	20:AT:83:ARG:H	2.19	0.51
23:AW:6:C:C2	23:AW:7:U:C5	2.99	0.51
23:AW:16:U:O2	23:AW:62:U:C4'	2.57	0.51
23:AW:74:C:C6	23:AW:74:C:C5'	2.92	0.51
25:B0:40:GLN:HE21	25:B0:43:THR:HA	1.76	0.51
29:B4:27:THR:O	29:B4:28:LYS:CB	2.58	0.51
35:BA:118:A:OP2	35:BA:119:A:H5"	2.11	0.51
35:BA:324:A:N6	35:BA:338:G:O2'	2.41	0.51
35:BA:491:G:H2'	35:BA:492:A:C8	2.46	0.51
35:BA:997:G:OP1	52:BU:93:LYS:HD3	2.11	0.51
35:BA:1429:G:H2'	35:BA:1430:C:C6	2.46	0.51
35:BA:1639:U:H2'	35:BA:1640:C:C5'	2.39	0.51
35:BA:1914:C:H2'	35:BA:1915:U:O4'	2.10	0.51
35:BA:2789:C:H1'	35:BA:2892:A:H2	1.75	0.51
37:BC:21:TYR:HB3	37:BC:25:GLU:HG3	1.92	0.51
38:BD:26:LYS:O	38:BD:27:THR:HG22	2.11	0.51
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.75	0.51
39:BE:57:LYS:C	39:BE:59:VAL:N	2.66	0.51
39:BE:87:GLU:OE1	39:BE:87:GLU:C	2.54	0.51
40:BF:133:ASN:ND2	40:BF:133:ASN:N	2.56	0.51
43:BI:29:TYR:CE1	43:BI:33:ARG:NE	2.59	0.51
43:BI:126:TYR:O	43:BI:140:LEU:HB3	2.10	0.51
45:BN:27:ALA:HB3	45:BN:106:MET:HE1	1.92	0.51
45:BN:120:LEU:HD22	45:BN:122:VAL:HG23	1.93	0.51
45:BN:133:GLN:O	45:BN:134:ARG:HB3	2.10	0.51
46:BO:71:ARG:NH2	46:BO:77:ILE:HG21	2.26	0.51
47:BP:148:LEU:O	47:BP:149:GLU:HB2	2.11	0.51
50:BS:24:LEU:HB3	50:BS:85:VAL:HG12	1.93	0.51
50:BS:35:ILE:CG2	50:BS:53:SER:HB2	2.41	0.51
50:BS:59:LYS:HG2	50:BS:60:GLY:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:23:ARG:O	51:BT:25:GLY:N	2.44	0.51
1:CA:261:U:OP2	20:CT:79:ARG:NH2	2.43	0.51
1:CA:606:G:H2'	1:CA:631:G:N2	2.26	0.51
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.76	0.51
3:CC:19:GLU:O	3:CC:56:ASP:HA	2.11	0.51
8:CH:30:ARG:O	8:CH:34:GLU:HG2	2.10	0.51
9:CI:96:LEU:O	9:CI:102:LEU:HB2	2.11	0.51
14:CN:29:ARG:HG3	14:CN:29:ARG:HH11	1.76	0.51
19:CS:9:VAL:HG12	19:CS:9:VAL:O	2.11	0.51
22:CV:20:G:C2	22:CV:59:G:C4	2.99	0.51
22:CV:54:G:O2'	22:CV:55:G:H5'	2.11	0.51
23:CW:32:G:C6	23:CW:43:G:C6	2.99	0.51
23:CW:73:C:C3'	23:CW:74:C:C5'	2.85	0.51
22:CY:3:G:H2'	22:CY:4:C:H5"	1.92	0.51
22:CY:29:A:H2'	22:CY:30:U:O4'	2.10	0.51
22:CY:53:U:C2	22:CY:54:G:C8	2.98	0.51
22:CY:73:C:O2'	22:CY:74:C:H5'	2.11	0.51
29:D4:13:ARG:HH11	29:D4:13:ARG:CB	2.15	0.51
32:D7:8:ASN:ND2	32:D7:10:ARG:H	2.09	0.51
33:D8:32:LEU:O	33:D8:33:ASN:O	2.29	0.51
35:DA:922:U:H2'	35:DA:923:C:H6	1.76	0.51
35:DA:993:G:OP1	52:DU:50:ARG:NH1	2.44	0.51
35:DA:1316:U:H2'	35:DA:1317:A:H8	1.76	0.51
36:DB:55:U:H4'	41:DG:27:ASN:HD21	1.76	0.51
38:DD:76:PRO:HB2	38:DD:116:GLN:OE1	2.11	0.51
38:DD:76:PRO:O	38:DD:98:VAL:HG23	2.11	0.51
41:DG:40:ASN:ND2	41:DG:41:GLN:H	2.09	0.51
43:DI:10:GLU:OE1	43:DI:11:ASN:HB2	2.11	0.51
45:DN:4:TYR:HB2	52:DU:64:ARG:NH1	2.26	0.51
49:DR:17:ARG:HG2	49:DR:17:ARG:O	2.11	0.51
52:DU:66:ASN:O	52:DU:66:ASN:ND2	2.44	0.51
52:DU:92:ARG:NH1	53:DV:11:GLN:H	2.09	0.51
53:DV:52:VAL:HG13	53:DV:52:VAL:O	2.10	0.51
56:DY:10:GLY:C	56:DY:27:VAL:HG22	2.35	0.51
57:DZ:3:TYR:O	57:DZ:58:VAL:HG23	2.11	0.51
57:DZ:4:ARG:NH1	57:DZ:58:VAL:HG11	2.25	0.51
57:DZ:15:PRO:HA	57:DZ:18:LEU:HD13	1.93	0.51
57:DZ:52:SER:OG	57:DZ:53:ILE:N	2.44	0.51
1:AA:353:A:H5'	1:AA:353:A:H8	1.76	0.51
1:AA:608:A:H2'	1:AA:609:A:O4'	2.11	0.51
1:AA:691:G:H1'	1:AA:696:A:N6	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.46	0.51
1:AA:1042:G:H2'	1:AA:1043:C:C6	2.46	0.51
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.45	0.51
3:AC:19:GLU:HG3	3:AC:54:ARG:NH1	2.26	0.51
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.45	0.51
10:AJ:4:ILE:HD11	10:AJ:77:PRO:HB3	1.93	0.51
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HD11	1.92	0.51
12:AL:84:LEU:HD12	12:AL:104:VAL:HG11	1.92	0.51
13:AM:10:PRO:O	13:AM:45:VAL:HG11	2.11	0.51
20:AT:47:GLY:O	20:AT:48:LYS:C	2.54	0.51
23:AW:53:U:O2	23:AW:66:G:C2	2.63	0.51
22:AY:11:C:N4	22:AY:47:G:H22	2.07	0.51
22:AY:73:C:O2'	22:AY:74:C:H5'	2.11	0.51
28:B3:52:HIS:H	28:B3:52:HIS:CD2	2.28	0.51
29:B4:26:SER:HB2	41:BG:143:GLU:OE2	2.11	0.51
29:B4:33:VAL:HG12	29:B4:34:GLU:N	2.26	0.51
35:BA:548:A:H2'	35:BA:548:A:N3	2.26	0.51
35:BA:709:U:H2'	35:BA:710:G:H8	1.76	0.51
35:BA:2267:A:H5"	35:BA:2268:A:H5'	1.93	0.51
35:BA:2394:C:OP1	47:BP:63:PRO:CD	2.57	0.51
35:BA:2842:G:O2'	35:BA:2843:G:H5'	2.11	0.51
36:BB:11:C:OP2	36:BB:12:C:H5	1.94	0.51
38:BD:35:LYS:HZ2	38:BD:35:LYS:CB	2.20	0.51
46:BO:2:ILE:CD1	46:BO:82:ASN:ND2	2.73	0.51
50:BS:35:ILE:CD1	50:BS:99:LYS:HE2	2.33	0.51
51:BT:129:ARG:HH12	51:BT:131:ALA:CA	2.23	0.51
52:BU:95:LEU:C	52:BU:97:ASP:N	2.67	0.51
52:BU:101:ARG:HH11	52:BU:101:ARG:HB2	1.76	0.51
57:BZ:179:ASP:H	57:BZ:182:LYS:NZ	2.09	0.51
1:CA:336:C:O2'	1:CA:337:C:H5'	2.11	0.51
1:CA:599:C:O2'	1:CA:600:C:H5'	2.11	0.51
1:CA:939:G:H5"	7:CG:102:ARG:NH1	2.26	0.51
1:CA:1469:G:H2'	1:CA:1470:G:H8	1.76	0.51
2:CB:52:GLU:HG2	2:CB:56:ARG:HH12	1.76	0.51
2:CB:74:LYS:O	2:CB:74:LYS:HG3	2.10	0.51
2:CB:207:ALA:C	2:CB:209:ARG:N	2.68	0.51
5:CE:148:VAL:C	5:CE:150:ARG:N	2.69	0.51
6:CF:84:ASN:O	6:CF:86:ARG:HG3	2.10	0.51
13:CM:20:THR:C	13:CM:22:ILE:H	2.19	0.51
22:CV:10:G:N2	22:CV:28:G:C1'	2.71	0.51
22:CV:71:G:N2	22:CV:72:C:N1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:15:G:H2'	23:CW:61:A:N1	2.25	0.51
22:CY:31:C:H42	22:CY:43:G:H1	1.58	0.51
35:DA:389:G:N1	47:DP:70:GLN:HG3	2.26	0.51
35:DA:1151:G:H5"	52:DU:81:HIS:CE1	2.46	0.51
35:DA:1441:G:H4'	35:DA:1628:G:OP1	2.10	0.51
35:DA:1535:A:H5"	35:DA:1536:C:OP2	2.10	0.51
35:DA:1541:G:H1'	35:DA:1542:A:C5	2.46	0.51
35:DA:1887:C:H3'	35:DA:1888:G:H5"	1.92	0.51
37:DC:54:ARG:HB3	37:DC:57:GLN:HB3	1.93	0.51
39:DE:9:VAL:HG13	39:DE:25:VAL:O	2.11	0.51
41:DG:72:ARG:HA	41:DG:87:PRO:HG2	1.91	0.51
43:DI:77:LEU:CD2	43:DI:141:LYS:HG2	2.41	0.51
45:DN:78:TYR:N	45:DN:78:TYR:CD1	2.77	0.51
47:DP:101:VAL:HG23	47:DP:102:ARG:N	2.25	0.51
50:DS:87:PHE:H	50:DS:106:ARG:HD3	1.76	0.51
56:DY:81:LYS:CD	56:DY:97:ARG:HB3	2.37	0.51
1:AA:724:G:O2'	1:AA:725:G:H5'	2.11	0.50
1:AA:1314:C:C5	19:AS:6:LYS:HE2	2.39	0.50
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.46	0.50
4:AD:10:ARG:O	4:AD:13:ARG:HB2	2.11	0.50
8:AH:38:ILE:C	8:AH:40:ALA:H	2.19	0.50
8:AH:63:LEU:HD22	8:AH:63:LEU:N	2.27	0.50
13:AM:13:LYS:HA	13:AM:44:ARG:NH1	2.23	0.50
13:AM:90:LEU:O	13:AM:91:ARG:CG	2.59	0.50
15:AO:23:GLY:O	15:AO:27:VAL:HB	2.11	0.50
20:AT:23:ARG:O	20:AT:27:LYS:HB2	2.11	0.50
22:AV:20:G:C4	22:AV:59:G:C2	2.98	0.50
23:AW:23:A:C2	23:AW:50:C:N3	2.80	0.50
26:B1:51:VAL:HG21	26:B1:74:VAL:CG2	2.41	0.50
31:B6:26:ASN:OD1	31:B6:27:LYS:N	2.43	0.50
35:BA:57:C:H2'	35:BA:58:G:O4'	2.12	0.50
35:BA:1190:G:H5'	47:BP:35:HIS:N	2.23	0.50
35:BA:1568:G:H21	38:BD:58:HIS:HE1	1.58	0.50
35:BA:2126:A:H5'	37:BC:38:PHE:CD2	2.46	0.50
35:BA:2405:G:O2'	35:BA:2406:U:P	2.68	0.50
35:BA:2666:C:H5'	35:BA:2667:C:OP2	2.11	0.50
36:BB:56:G:H4'	36:BB:57:A:H8	1.76	0.50
38:BD:131:LEU:HD13	38:BD:136:ILE:CG1	2.41	0.50
41:BG:83:ARG:CZ	41:BG:84:LYS:HE3	2.41	0.50
41:BG:168:GLU:O	41:BG:171:ALA:N	2.43	0.50
42:BH:115:VAL:HG11	42:BH:148:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:77:LEU:HD22	43:BI:140:LEU:CA	2.37	0.50
50:BS:25:ARG:HH11	50:BS:25:ARG:CB	2.25	0.50
51:BT:34:VAL:HG13	51:BT:39:ARG:HA	1.92	0.50
51:BT:107:ASP:CG	51:BT:108:ARG:N	2.69	0.50
56:BY:95:LYS:NZ	56:BY:100:ALA:HB1	2.26	0.50
1:CA:314:C:O2'	1:CA:315:A:H5'	2.11	0.50
1:CA:1151:A:N3	10:CJ:39:PRO:HG3	2.26	0.50
1:CA:1181:G:O2'	1:CA:1182:G:H5'	2.11	0.50
1:CA:1319:A:H61	1:CA:1361:G:H21	1.59	0.50
3:CC:32:LEU:HB3	3:CC:59:ARG:NH2	2.25	0.50
4:CD:79:PHE:CD2	4:CD:207:TYR:HD2	2.29	0.50
4:CD:97:LEU:HD23	4:CD:97:LEU:O	2.11	0.50
9:CI:113:LYS:H	9:CI:119:ALA:HA	1.76	0.50
12:CL:120:TYR:N	12:CL:120:TYR:HD1	2.09	0.50
13:CM:84:ILE:HG22	13:CM:84:ILE:O	2.10	0.50
15:CO:21:ASP:C	15:CO:23:GLY:H	2.18	0.50
22:CV:3:G:H2'	22:CV:4:C:H5'	1.91	0.50
22:CV:19:G:C2'	22:CV:59:G:N2	2.73	0.50
22:CV:24:A:H62	22:CV:48:G:N2	2.07	0.50
23:CW:7:U:O2	23:CW:69:G:C4	2.65	0.50
23:CW:40:A:C6	23:CW:41:C:H2'	2.46	0.50
22:CY:1:G:H2'	22:CY:2:G:H8	1.75	0.50
26:D1:29:GLY:O	26:D1:30:VAL:CG2	2.44	0.50
26:D1:82:LEU:O	26:D1:82:LEU:HD23	2.10	0.50
27:D2:16:LEU:O	27:D2:17:SER:HB3	2.11	0.50
35:DA:99:U:H4'	35:DA:102:G:H1'	1.93	0.50
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.26	0.50
35:DA:2302:G:H1'	41:DG:128:ARG:CZ	2.41	0.50
39:DE:57:LYS:C	39:DE:59:VAL:N	2.66	0.50
40:DF:194:MET:HE3	40:DF:199:TRP:CD1	2.46	0.50
41:DG:12:TYR:HA	41:DG:16:ARG:CG	2.41	0.50
42:DH:118:PRO:HG2	42:DH:121:ILE:HD12	1.93	0.50
43:DI:132:PRO:C	43:DI:133:HIS:ND1	2.69	0.50
47:DP:17:LYS:C	47:DP:19:VAL:N	2.67	0.50
51:DT:89:VAL:HG11	51:DT:91:ARG:NE	2.25	0.50
51:DT:102:ILE:HB	51:DT:110:ILE:CD1	2.41	0.50
52:DU:95:LEU:C	52:DU:97:ASP:N	2.66	0.50
55:DX:12:VAL:HG23	55:DX:13:LEU:H	1.75	0.50
57:DZ:104:PHE:HB3	57:DZ:141:VAL:CG2	2.41	0.50
1:AA:499:A:H4'	1:AA:500:G:OP1	2.11	0.50
1:AA:505:G:H2'	1:AA:506:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.11	0.50
1:AA:879:C:O2'	1:AA:880:C:H5'	2.11	0.50
1:AA:1316:G:H4'	14:AN:18:VAL:CG1	2.41	0.50
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.75	0.50
5:AE:19:MET:O	5:AE:20:GLN:HB2	2.10	0.50
7:AG:136:LYS:NZ	7:AG:136:LYS:HB3	2.27	0.50
12:AL:82:VAL:HG23	12:AL:106:ASP:OD2	2.10	0.50
13:AM:28:ALA:C	13:AM:30:ALA:N	2.68	0.50
14:AN:12:ARG:HH11	14:AN:12:ARG:HB3	1.76	0.50
23:AW:20:G:N2	23:AW:58:C:C2	2.79	0.50
23:AW:23:A:H5'	23:AW:24:A:OP1	2.10	0.50
23:AW:57:U:C2	23:AW:59:G:N7	2.80	0.50
22:AY:49:G:C3'	22:AY:50:C:C5'	2.86	0.50
22:AY:55:G:N2	57:BZ:183:LEU:HD23	2.27	0.50
26:B1:52:ARG:HH22	35:BA:2218:U:H1'	1.75	0.50
29:B4:48:ARG:O	29:B4:49:PHE:HB2	2.11	0.50
30:B5:54:GLY:C	30:B5:55:ARG:HE	2.18	0.50
35:BA:819:A:C4	35:BA:1189:A:C2	2.99	0.50
35:BA:1535:A:H5"	35:BA:1536:C:OP2	2.12	0.50
35:BA:1719:G:H2'	35:BA:1720:U:H5'	1.92	0.50
39:BE:39:PRO:HA	39:BE:43:GLY:HA2	1.91	0.50
43:BI:77:LEU:CD2	43:BI:141:LYS:HG2	2.39	0.50
47:BP:23:PRO:HB2	47:BP:33:ARG:NE	2.27	0.50
47:BP:102:ARG:HH11	47:BP:102:ARG:CB	2.23	0.50
49:BR:76:VAL:HG12	49:BR:77:ARG:N	2.26	0.50
51:BT:64:ARG:HA	51:BT:72:VAL:O	2.10	0.50
51:BT:89:VAL:HG11	51:BT:91:ARG:NE	2.26	0.50
51:BT:121:ILE:O	51:BT:124:ASP:HB2	2.11	0.50
56:BY:4:LYS:HD2	56:BY:32:PRO:CG	2.41	0.50
1:CA:127:G:N2	17:CQ:61:GLU:OE2	2.44	0.50
1:CA:142:G:H2'	1:CA:143:A:H8	1.76	0.50
1:CA:348:G:H2'	1:CA:349:A:H5'	1.92	0.50
1:CA:473:G:H2'	1:CA:474:G:C8	2.44	0.50
1:CA:1206:G:H2'	1:CA:1207:G:O4'	2.12	0.50
2:CB:46:LYS:HG3	2:CB:49:GLU:OE1	2.11	0.50
2:CB:114:ARG:HA	2:CB:117:GLU:HB3	1.93	0.50
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.76	0.50
5:CE:126:ARG:HG3	5:CE:126:ARG:NH1	2.25	0.50
9:CI:56:LEU:HD23	9:CI:56:LEU:C	2.35	0.50
9:CI:65:VAL:HG21	9:CI:73:GLN:CB	2.32	0.50
13:CM:2:ALA:CB	13:CM:9:ILE:HG23	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:13:THR:N	14:CN:14:PRO:CD	2.75	0.50
22:CV:13:U:C2	22:CV:25:A:N1	2.79	0.50
23:CW:9:A:C5	23:CW:48:G:C2	2.99	0.50
23:CW:44:A:C6	23:CW:45:U:C5	2.99	0.50
23:CW:44:A:C3'	23:CW:45:U:H5"	2.41	0.50
22:CY:12:U:C2	22:CY:26:G:N2	2.79	0.50
33:D8:48:PHE:C	33:D8:49:VAL:HG22	2.37	0.50
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.12	0.50
35:DA:1006:C:O2	45:DN:106:MET:HG2	2.11	0.50
35:DA:1142(A):A:O2'	35:DA:1143:A:H3'	2.11	0.50
35:DA:1372:U:H2'	35:DA:1373:A:H8	1.72	0.50
35:DA:2128:C:H2'	35:DA:2129:C:O4'	2.11	0.50
35:DA:2777:G:C5'	35:DA:2778:A:H5'	2.41	0.50
40:DF:110:LEU:HD13	40:DF:202:PHE:HE1	1.75	0.50
40:DF:113:ALA:HB1	40:DF:186:ILE:HG21	1.92	0.50
41:DG:10:LYS:HB3	41:DG:14:GLU:OE2	2.12	0.50
41:DG:18:GLU:HG2	41:DG:175:LEU:HD22	1.92	0.50
41:DG:138:GLN:HE21	41:DG:149:VAL:HG23	1.75	0.50
41:DG:145:THR:CG2	41:DG:148:MET:HB3	2.41	0.50
45:DN:27:ALA:HB3	45:DN:106:MET:HE1	1.93	0.50
45:DN:56:ASN:HA	45:DN:124:ALA:C	2.37	0.50
47:DP:18:ARG:HB3	47:DP:18:ARG:NH1	2.25	0.50
47:DP:25:SER:O	47:DP:30:THR:HG23	2.11	0.50
48:DQ:51:ARG:HH21	48:DQ:52:VAL:CG2	2.24	0.50
50:DS:30:ARG:HH11	50:DS:35:ILE:HB	1.76	0.50
56:DY:32:PRO:C	56:DY:35:TYR:H	2.19	0.50
1:AA:191:G:C1'	20:AT:105:SER:HB3	2.42	0.50
1:AA:955:U:H1'	1:AA:1227:A:N6	2.26	0.50
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.47	0.50
2:AB:187:LEU:HD11	2:AB:205:ASP:HA	1.93	0.50
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.11	0.50
4:AD:175:SER:OG	4:AD:186:LEU:HD21	2.11	0.50
7:AG:100:ALA:O	7:AG:104:LEU:HD23	2.11	0.50
9:AI:7:THR:HB	9:AI:83:ARG:NH1	2.26	0.50
12:AL:7:ILE:CG2	12:AL:8:ASN:N	2.73	0.50
12:AL:58:VAL:C	12:AL:65:GLU:HG3	2.36	0.50
12:AL:120:TYR:HD1	12:AL:120:TYR:N	2.09	0.50
16:AP:19:ILE:HB	16:AP:37:GLY:O	2.11	0.50
16:AP:68:ASP:C	16:AP:70:ALA:N	2.69	0.50
23:AW:4:C:C2	23:AW:5:C:C5	2.99	0.50
23:AW:36:C:O2	23:AW:36:C:C2'	2.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:27:GLU:C	25:B0:29:GLN:H	2.18	0.50
27:B2:32:LEU:CD1	27:B2:36:ARG:HH12	2.25	0.50
31:B6:16:CYS:O	31:B6:17:LYS:HB2	2.10	0.50
35:BA:412:A:N7	35:BA:2411:A:H2	2.09	0.50
35:BA:653:A:H5'	35:BA:654:A:OP2	2.10	0.50
35:BA:662:G:OP1	47:BP:18:ARG:CD	2.59	0.50
35:BA:979:G:H3'	35:BA:980:A:C5'	2.42	0.50
35:BA:2415:G:O3'	47:BP:66:GLY:HA3	2.12	0.50
35:BA:2657:A:C2'	35:BA:2658:C:H5'	2.39	0.50
35:BA:2668:G:O2'	35:BA:2669:G:H5'	2.10	0.50
35:BA:2701:C:H2'	35:BA:2702:U:H2'	1.93	0.50
37:BC:30:VAL:HG11	37:BC:42:VAL:CG2	2.38	0.50
37:BC:195:ARG:HG3	37:BC:195:ARG:NH1	2.26	0.50
38:BD:268:ARG:HH11	38:BD:268:ARG:CB	2.22	0.50
39:BE:52:LEU:HD22	39:BE:76:ARG:HD3	1.94	0.50
40:BF:8:GLN:HG2	40:BF:126:VAL:HG12	1.92	0.50
40:BF:157:VAL:HA	40:BF:176:LEU:O	2.10	0.50
42:BH:127:GLU:CG	42:BH:130:ARG:HE	2.23	0.50
45:BN:58:ASP:C	45:BN:60:ILE:HG13	2.37	0.50
45:BN:65:LYS:O	45:BN:69:GLN:HG3	2.11	0.50
45:BN:67:LEU:O	45:BN:68:GLU:CB	2.59	0.50
46:BO:64:ARG:NH1	51:BT:70:VAL:CG2	2.74	0.50
47:BP:33:ARG:HG3	47:BP:34:GLY:H	1.75	0.50
48:BQ:76:LYS:CB	48:BQ:91:GLU:HG3	2.40	0.50
56:BY:57:GLN:CG	56:BY:58:GLY:H	2.24	0.50
57:BZ:41:LEU:HD11	57:BZ:82:ARG:NH2	2.27	0.50
1:CA:532:A:N6	3:CC:193:TYR:CB	2.75	0.50
1:CA:1055:A:N3	3:CC:156:ARG:HD2	2.26	0.50
1:CA:1316:G:H4'	14:CN:18:VAL:CG1	2.41	0.50
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.26	0.50
12:CL:45:PRO:HG2	12:CL:50:SER:C	2.37	0.50
12:CL:53:ARG:HH12	12:CL:92:ASP:HB3	1.75	0.50
13:CM:66:LEU:O	13:CM:70:LEU:HB3	2.11	0.50
23:CW:26:G:C5	23:CW:27:C:N4	2.79	0.50
35:DA:239:U:H2'	35:DA:240:G:O4'	2.11	0.50
35:DA:271(P):C:C2'	35:DA:271(Q):G:H5'	2.40	0.50
35:DA:1210:A:H5'	35:DA:1210:A:C8	2.46	0.50
35:DA:1331:A:O2'	35:DA:1332:G:H8	1.93	0.50
35:DA:1841:U:H2'	35:DA:1842:G:C8	2.46	0.50
35:DA:2162:G:H5'	35:DA:2173:A:H5'	1.94	0.50
39:DE:87:GLU:OE1	39:DE:87:GLU:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:7:TYR:HB2	40:DF:16:GLY:C	2.36	0.50
40:DF:34:TRP:HB2	47:DP:10:PRO:O	2.11	0.50
42:DH:94:TYR:HD1	42:DH:94:TYR:H	1.58	0.50
42:DH:115:VAL:HG11	42:DH:148:ILE:CD1	2.42	0.50
43:DI:5:LEU:HD23	43:DI:36:ALA:HB2	1.94	0.50
43:DI:62:LYS:HE3	43:DI:133:HIS:O	2.12	0.50
45:DN:120:LEU:HD22	45:DN:122:VAL:HG23	1.91	0.50
48:DQ:17:LEU:HD22	48:DQ:96:VAL:HG13	1.93	0.50
51:DT:129:ARG:HH12	51:DT:131:ALA:CA	2.23	0.50
54:DW:34:ASN:O	54:DW:35:ILE:C	2.55	0.50
57:DZ:81:ARG:NH1	57:DZ:81:ARG:CB	2.73	0.50
57:DZ:127:LYS:HB3	57:DZ:127:LYS:HZ3	1.77	0.50
1:AA:366:C:H4'	1:AA:367:U:OP1	2.12	0.50
1:AA:401:C:OP2	4:AD:73:ARG:NH2	2.44	0.50
1:AA:448:A:P	1:AA:485:G:H22	2.35	0.50
1:AA:648:A:H2'	1:AA:649:G:H8	1.77	0.50
1:AA:1107:C:H2'	1:AA:1108:G:H5"	1.94	0.50
1:AA:1287:A:C2	1:AA:1353:G:H1'	2.46	0.50
1:AA:1441:G:H5"	1:AA:1442:G:H5'	1.93	0.50
5:AE:43:LEU:HB2	5:AE:136:MET:SD	2.50	0.50
5:AE:71:LEU:O	5:AE:72:GLN:CG	2.58	0.50
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.12	0.50
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.37	0.50
11:AK:105:VAL:HB	11:AK:108:ILE:HD11	1.92	0.50
12:AL:43:VAL:CG1	12:AL:55:VAL:HG21	2.41	0.50
13:AM:20:THR:C	13:AM:22:ILE:H	2.20	0.50
14:AN:13:THR:HG22	14:AN:13:THR:O	2.11	0.50
15:AO:63:ARG:HG2	15:AO:67:LEU:HD11	1.94	0.50
16:AP:28:ARG:HG2	16:AP:29:ASP:OD1	2.11	0.50
22:AV:3:G:C2'	22:AV:4:C:H5"	2.41	0.50
22:AV:14:A:C5	22:AV:24:A:C6	2.99	0.50
23:AW:40:A:N1	23:AW:41:C:H2'	2.26	0.50
22:AY:25:A:H2'	22:AY:26:G:H8	1.70	0.50
31:B6:5:VAL:CG1	31:B6:7:ILE:HG22	2.42	0.50
33:B8:21:LYS:HD3	33:B8:48:PHE:CZ	2.47	0.50
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.74	0.50
34:B9:9:ARG:HH12	34:B9:15:LYS:HA	1.76	0.50
35:BA:999:U:H5"	35:BA:1154:G:O6	2.12	0.50
35:BA:1762:A:C8	35:BA:1762:A:O5'	2.64	0.50
35:BA:1805:U:O2	38:BD:50:THR:HB	2.12	0.50
35:BA:1884:A:O2'	35:BA:1885:A:H5"	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1925:C:O2'	35:BA:1926:U:H5'	2.12	0.50
38:BD:155:LEU:HD23	38:BD:177:LEU:CD2	2.41	0.50
40:BF:60:SER:OG	40:BF:61:GLY:N	2.43	0.50
41:BG:28:VAL:O	41:BG:31:VAL:HG12	2.11	0.50
42:BH:158:HIS:CD2	42:BH:170:ARG:HA	2.47	0.50
47:BP:99:LEU:O	47:BP:99:LEU:HD23	2.11	0.50
50:BS:66:ALA:O	50:BS:69:VAL:HG12	2.11	0.50
52:BU:90:VAL:HG21	53:BV:47:VAL:HG21	1.93	0.50
54:BW:75:TYR:CE1	54:BW:104:THR:HB	2.46	0.50
55:BX:3:THR:HA	55:BX:6:ASP:HB2	1.94	0.50
1:CA:376:G:O3'	16:CP:5:ARG:HD2	2.11	0.50
1:CA:460:G:N2	1:CA:471:G:C8	2.79	0.50
1:CA:892:A:O2'	1:CA:893:C:H5'	2.11	0.50
1:CA:1287:A:C2	1:CA:1353:G:H1'	2.47	0.50
3:CC:162:GLN:CD	24:CX:24:A:O4'	2.55	0.50
4:CD:90:GLY:CA	4:CD:204:ILE:HD11	2.41	0.50
7:CG:152:ALA:O	7:CG:155:ARG:HG3	2.12	0.50
8:CH:38:ILE:C	8:CH:40:ALA:H	2.19	0.50
9:CI:37:PHE:CE2	9:CI:74:ILE:HG12	2.46	0.50
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.93	0.50
10:CJ:4:ILE:HD11	10:CJ:77:PRO:HB3	1.93	0.50
12:CL:33:ARG:HB3	12:CL:85:ILE:HG22	1.92	0.50
22:CV:36:AG9:C2'	22:CV:37:A:H5'	2.40	0.50
23:CW:20:G:H4'	23:CW:21:U:OP2	2.11	0.50
23:CW:38:U:C2	23:CW:39:A:N7	2.79	0.50
22:CY:57:U:H5	57:DZ:181:GLU:O	1.90	0.50
26:D1:69:LYS:O	26:D1:69:LYS:HG3	2.11	0.50
27:D2:48:HIS:NE2	35:DA:96:G:H4'	2.26	0.50
34:D9:9:ARG:NH1	34:D9:16:VAL:HG23	2.27	0.50
34:D9:9:ARG:HH12	34:D9:15:LYS:HA	1.76	0.50
35:DA:394:A:O2'	35:DA:395:U:H5'	2.12	0.50
35:DA:705:A:C2	35:DA:727:A:H1'	2.47	0.50
35:DA:923:C:O2'	35:DA:924:C:H5'	2.11	0.50
35:DA:1138:G:H2'	35:DA:1139:G:O4'	2.11	0.50
35:DA:2148:G:H2'	35:DA:2149:G:H8	1.77	0.50
35:DA:2811:G:H4'	39:DE:61:ARG:HH21	1.77	0.50
35:DA:2864:G:O2'	35:DA:2865:U:H5'	2.11	0.50
36:DB:52:A:O2'	36:DB:53:A:C8	2.64	0.50
37:DC:14:LYS:HE3	37:DC:32:GLU:HB2	1.92	0.50
41:DG:125:PHE:N	41:DG:125:PHE:CD1	2.79	0.50
42:DH:14:GLY:O	42:DH:29:PRO:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:41:MET:SD	42:DH:53:GLU:N	2.78	0.50
43:DI:4:ILE:HG12	43:DI:18:VAL:HG22	1.93	0.50
43:DI:101:LEU:HD23	43:DI:109:ILE:HG12	1.92	0.50
46:DO:9:GLU:O	46:DO:83:ALA:HA	2.11	0.50
46:DO:49:ARG:HA	46:DO:53:LYS:NZ	2.26	0.50
47:DP:56:SER:O	47:DP:57:THR:C	2.53	0.50
49:DR:99:LYS:HD3	49:DR:99:LYS:H	1.76	0.50
51:DT:80:SER:OG	51:DT:81:PRO:HD3	2.11	0.50
53:DV:19:LYS:HG3	53:DV:20:LEU:N	2.26	0.50
53:DV:38:LEU:HD12	53:DV:57:VAL:HG12	1.92	0.50
53:DV:41:GLY:HA3	53:DV:45:THR:OG1	2.11	0.50
54:DW:73:ALA:HB3	54:DW:106:ILE:CD1	2.40	0.50
55:DX:64:LYS:NZ	55:DX:73:ARG:HE	2.10	0.50
1:AA:319:G:O2'	1:AA:320:C:H5'	2.12	0.50
1:AA:735:C:O2'	1:AA:736:C:H5'	2.12	0.50
1:AA:1174:G:H2'	1:AA:1175:G:H8	1.77	0.50
2:AB:142:LEU:HA	2:AB:145:LEU:CB	2.41	0.50
2:AB:187:LEU:HA	2:AB:201:ILE:O	2.12	0.50
2:AB:207:ALA:C	2:AB:209:ARG:N	2.69	0.50
8:AH:30:ARG:O	8:AH:34:GLU:HG2	2.11	0.50
9:AI:99:LEU:C	9:AI:101:PHE:H	2.18	0.50
11:AK:124:LYS:HZ3	11:AK:124:LYS:HB3	1.76	0.50
16:AP:50:LYS:HD3	16:AP:51:VAL:N	2.26	0.50
18:AR:35:ARG:C	18:AR:37:VAL:H	2.20	0.50
20:AT:99:LEU:O	20:AT:100:ILE:C	2.54	0.50
22:AV:4:C:C4	22:AV:5:C:N4	2.80	0.50
27:B2:10:LEU:HB3	27:B2:14:ARG:NH1	2.26	0.50
27:B2:63:VAL:CA	27:B2:66:GLU:HG3	2.38	0.50
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.12	0.50
29:B4:25:TYR:HE1	41:BG:5:VAL:HG22	1.77	0.50
35:BA:523:C:O2'	35:BA:524:U:H5'	2.12	0.50
35:BA:922:U:H2'	35:BA:923:C:H6	1.77	0.50
35:BA:1210:A:H5'	35:BA:1210:A:C8	2.45	0.50
35:BA:1242:A:N1	47:BP:8:PRO:HG3	2.26	0.50
35:BA:2012:G:H4'	54:BW:96:ILE:CD1	2.40	0.50
35:BA:2162:G:O2'	35:BA:2163:C:H5'	2.11	0.50
35:BA:2580:U:C5'	39:BE:131:ALA:HB2	2.38	0.50
35:BA:2672:G:H3'	35:BA:2673:G:H5"	1.93	0.50
36:BB:52:A:O2'	36:BB:53:A:C8	2.63	0.50
37:BC:166:ASN:HB3	37:BC:172:ILE:HB	1.94	0.50
38:BD:11:PRO:O	38:BD:12:SER:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:70:TRP:O	38:BD:73:VAL:HG23	2.11	0.50
38:BD:129:ASN:O	38:BD:193:VAL:HG12	2.12	0.50
38:BD:224:ALA:O	38:BD:225:ALA:HB2	2.11	0.50
43:BI:111:PRO:HG2	43:BI:112:LYS:HD2	1.93	0.50
45:BN:19:GLU:HG3	45:BN:20:GLY:N	2.27	0.50
45:BN:47:ALA:HB1	45:BN:116:LEU:HD21	1.94	0.50
47:BP:7:ARG:HH11	47:BP:7:ARG:CB	2.25	0.50
50:BS:73:LEU:HD23	50:BS:73:LEU:C	2.37	0.50
57:BZ:81:ARG:HG3	57:BZ:81:ARG:O	2.11	0.50
1:CA:1023:G:H2'	1:CA:1024:G:H5'	1.93	0.50
1:CA:1053:G:C4'	1:CA:1054:C:C5'	2.78	0.50
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.46	0.50
2:CB:187:LEU:HA	2:CB:201:ILE:O	2.10	0.50
4:CD:152:SER:HA	4:CD:155:LEU:CG	2.42	0.50
5:CE:33:VAL:HG12	5:CE:34:VAL:N	2.26	0.50
5:CE:71:LEU:HD13	5:CE:114:GLY:O	2.10	0.50
9:CI:55:ALA:CA	9:CI:58:HIS:HD2	2.25	0.50
12:CL:75:HIS:HB2	12:CL:77:LEU:HG	1.92	0.50
13:CM:91:ARG:CB	13:CM:98:VAL:HG13	2.40	0.50
19:CS:58:VAL:O	19:CS:58:VAL:HG23	2.10	0.50
23:CW:29:A:C5	23:CW:30:U:C5	2.99	0.50
22:CY:45:U:H2'	22:CY:46:U:C6	2.47	0.50
26:D1:11:ARG:HB3	26:D1:11:ARG:NH1	2.27	0.50
33:D8:4:MET:O	33:D8:62:LEU:HD11	2.12	0.50
33:D8:34:TRP:CD2	33:D8:35:GLN:N	2.80	0.50
35:DA:863:A:O2'	35:DA:864:G:H5'	2.12	0.50
35:DA:1639:U:H2'	35:DA:1640:C:C5'	2.40	0.50
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.26	0.50
35:DA:2787:C:H1'	39:DE:61:ARG:CD	2.41	0.50
35:DA:2787:C:H1'	39:DE:61:ARG:HD3	1.94	0.50
35:DA:2789:C:H1'	35:DA:2892:A:H2	1.76	0.50
38:DD:131:LEU:HD13	38:DD:136:ILE:CG1	2.41	0.50
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.35	0.50
41:DG:5:VAL:HG21	41:DG:101:ILE:HG12	1.93	0.50
42:DH:148:ILE:C	42:DH:162:ILE:HD11	2.36	0.50
43:DI:27:ARG:HH11	43:DI:27:ARG:CG	2.22	0.50
47:DP:112:LEU:HD13	47:DP:113:LYS:N	2.25	0.50
47:DP:124:LYS:HD3	47:DP:143:GLY:CA	2.41	0.50
50:DS:35:ILE:O	50:DS:53:SER:HB2	2.11	0.50
52:DU:93:LYS:HD2	52:DU:93:LYS:H	1.76	0.50
53:DV:2:PHE:HB2	53:DV:42:GLY:CA	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:31:LEU:N	56:DY:31:LEU:CD2	2.74	0.50
57:DZ:182:LYS:O	57:DZ:183:LEU:HD23	2.10	0.50
1:AA:12:U:H4'	1:AA:526:C:H4'	1.94	0.50
1:AA:523:A:N6	12:AL:92:ASP:HB2	2.27	0.50
2:AB:23:ARG:O	2:AB:23:ARG:HG3	2.12	0.50
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.12	0.50
5:AE:79:GLU:N	5:AE:79:GLU:OE1	2.44	0.50
10:AJ:22:LYS:C	10:AJ:24:VAL:H	2.19	0.50
12:AL:64:TYR:N	12:AL:64:TYR:HD1	2.10	0.50
15:AO:21:ASP:C	15:AO:23:GLY:H	2.18	0.50
16:AP:67:THR:CG2	16:AP:68:ASP:N	2.74	0.50
18:AR:36:ASN:HB3	18:AR:39:VAL:CB	2.40	0.50
19:AS:13:ASP:C	19:AS:15:LEU:H	2.20	0.50
23:AW:7:U:C4	23:AW:68:A:N6	2.79	0.50
23:AW:12:U:H3	23:AW:26:G:H1	1.60	0.50
23:AW:57:U:H1'	23:AW:59:G:N7	2.27	0.50
23:AW:68:A:C2	23:AW:69:G:C8	3.00	0.50
22:AY:45:U:H2'	22:AY:46:U:O4'	2.12	0.50
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.11	0.50
35:BA:1049:C:N4	35:BA:1111:A:C2	2.79	0.50
35:BA:1142(A):A:O2'	35:BA:1143:A:H3'	2.12	0.50
35:BA:1339:G:N2	35:BA:1603:A:H1'	2.27	0.50
35:BA:1638:C:H4'	35:BA:2710:C:O2	2.12	0.50
35:BA:2313:C:C6	35:BA:2314:C:H5	2.30	0.50
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.11	0.50
35:BA:2502:G:H5"	35:BA:2503:A:H5"	1.93	0.50
35:BA:2787:C:H1'	39:BE:61:ARG:CD	2.41	0.50
35:BA:2801(A):A:C4'	35:BA:2802:G:H2'	2.42	0.50
37:BC:54:ARG:HB3	37:BC:57:GLN:HB3	1.92	0.50
40:BF:196:LEU:O	40:BF:196:LEU:HD23	2.12	0.50
42:BH:74:ASN:OD1	42:BH:138:LYS:HE3	2.11	0.50
45:BN:126:PRO:O	45:BN:127:ASP:CB	2.59	0.50
46:BO:80:ASP:O	46:BO:81:ASP:HB3	2.11	0.50
47:BP:13:ASN:C	47:BP:13:ASN:ND2	2.67	0.50
50:BS:35:ILE:H	50:BS:53:SER:CB	2.25	0.50
52:BU:93:LYS:HD2	52:BU:93:LYS:H	1.76	0.50
56:BY:2:ARG:O	56:BY:4:LYS:HG2	2.11	0.50
57:BZ:175:VAL:HB	57:BZ:176:PRO:CD	2.39	0.50
1:CA:203:U:H5"	1:CA:204:U:OP1	2.12	0.50
1:CA:545:C:O2'	1:CA:546:G:H5'	2.11	0.50
1:CA:751:U:C2'	1:CA:752:G:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:867:G:H2'	1:CA:868:C:C6	2.46	0.50
1:CA:1104:G:H2'	1:CA:1105:A:C8	2.41	0.50
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.94	0.50
3:CC:54:ARG:HH11	3:CC:54:ARG:HG2	1.76	0.50
4:CD:30:LYS:CB	4:CD:35:ARG:HD2	2.42	0.50
4:CD:192:GLU:CD	4:CD:192:GLU:H	2.20	0.50
5:CE:70:PRO:O	5:CE:77:PRO:HD3	2.11	0.50
6:CF:8:ILE:CG2	6:CF:9:VAL:N	2.75	0.50
7:CG:113:GLU:CB	7:CG:118:VAL:HG23	2.42	0.50
9:CI:111:ARG:O	9:CI:113:LYS:HD2	2.12	0.50
12:CL:119:LYS:C	12:CL:120:TYR:HD1	2.19	0.50
22:CV:23:A:H3'	22:CV:48:G:O6	2.12	0.50
22:CV:69:G:C6	22:CV:70:G:C5	2.99	0.50
22:CV:76:C:H2'	22:CV:77:C:H5"	1.92	0.50
23:CW:10:G:C6	23:CW:27:C:H2'	2.45	0.50
23:CW:35:U:OP2	23:CW:35:U:H6	1.95	0.50
23:CW:74:C:O2	23:CW:74:C:C2'	2.59	0.50
27:D2:47:ASN:ND2	35:DA:94(A):G:N2	2.60	0.50
29:D4:26:SER:OG	29:D4:27:THR:N	2.43	0.50
30:D5:48:GLU:O	30:D5:49:CYS:CB	2.58	0.50
33:D8:13:ARG:HD2	47:DP:61:ARG:HH11	1.77	0.50
33:D8:37:SER:O	33:D8:39:LYS:N	2.44	0.50
34:D9:18:ARG:HD2	35:DA:1034:G:H5'	1.92	0.50
35:DA:528:A:N1	35:DA:2043:C:O5'	2.44	0.50
35:DA:833:U:H2'	35:DA:834:C:C6	2.46	0.50
35:DA:1886:C:H2'	35:DA:1887:C:H6	1.76	0.50
35:DA:2162:G:O2'	35:DA:2163:C:H5'	2.11	0.50
35:DA:2567:G:H2'	35:DA:2568:C:C6	2.47	0.50
37:DC:216:THR:HB	37:DC:222:SER:CB	2.42	0.50
38:DD:35:LYS:HZ2	38:DD:35:LYS:CB	2.22	0.50
39:DE:116:VAL:HG22	39:DE:122:PHE:CG	2.47	0.50
40:DF:21:ALA:C	40:DF:23:ASP:N	2.70	0.50
40:DF:157:VAL:CG2	40:DF:194:MET:HG2	2.41	0.50
41:DG:132:ASN:HA	41:DG:157:ILE:O	2.12	0.50
42:DH:7:LEU:HD21	42:DH:69:ARG:NH1	2.26	0.50
42:DH:29:PRO:HD2	42:DH:79:VAL:O	2.12	0.50
47:DP:85:LEU:H	47:DP:85:LEU:CD2	2.16	0.50
48:DQ:133:ARG:HH11	48:DQ:133:ARG:HG3	1.76	0.50
50:DS:12:PHE:O	50:DS:14:VAL:HG23	2.11	0.50
56:DY:95:LYS:NZ	56:DY:100:ALA:HB1	2.27	0.50
1:AA:452:A:H4'	16:AP:72:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.46	0.50
2:AB:224:GLN:HB2	2:AB:229:VAL:HG22	1.92	0.50
3:AC:54:ARG:HH11	3:AC:54:ARG:HG2	1.77	0.50
6:AF:5:GLU:HG3	6:AF:93:SER:OG	2.12	0.50
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	1.93	0.50
11:AK:39:PRO:C	11:AK:40:ILE:HD13	2.36	0.50
11:AK:102:GLY:O	11:AK:103:LEU:HD22	2.12	0.50
12:AL:88:GLY:H	12:AL:98:TYR:HA	1.77	0.50
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.75	0.50
35:BA:680:G:O2'	35:BA:681:G:H5'	2.12	0.50
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.47	0.50
35:BA:1668:A:H4'	35:BA:1669:A:O5'	2.12	0.50
35:BA:2267:A:H5"	35:BA:2268:A:C5'	2.42	0.50
35:BA:2648:C:H2'	35:BA:2649:U:C6	2.46	0.50
35:BA:2864:G:OP1	51:BT:119:LYS:HD2	2.12	0.50
35:BA:2875:C:C4'	51:BT:5:ALA:HB2	2.39	0.50
40:BF:46:ARG:HG3	40:BF:46:ARG:NH1	2.26	0.50
40:BF:206:ILE:HG22	40:BF:207:GLY:N	2.26	0.50
42:BH:149:ARG:HA	42:BH:162:ILE:CG1	2.40	0.50
43:BI:123:LEU:HD23	43:BI:124:GLY:N	2.27	0.50
45:BN:58:ASP:C	45:BN:60:ILE:N	2.69	0.50
48:BQ:31:ASP:O	48:BQ:133:ARG:O	2.30	0.50
48:BQ:84:GLY:O	48:BQ:85:LYS:HB2	2.11	0.50
49:BR:10:LEU:HD22	49:BR:17:ARG:CD	2.36	0.50
51:BT:65:LYS:NZ	51:BT:65:LYS:CA	2.70	0.50
52:BU:98:LEU:C	52:BU:100:VAL:N	2.69	0.50
52:BU:112:ARG:HH12	53:BV:46:VAL:CG1	2.22	0.50
53:BV:2:PHE:HB2	53:BV:42:GLY:CA	2.41	0.50
57:BZ:19:ARG:HH12	57:BZ:84:GLU:C	2.20	0.50
1:CA:221:C:H2'	1:CA:222:U:H6	1.76	0.50
1:CA:297:G:N2	1:CA:300:A:OP2	2.41	0.50
1:CA:608:A:H2'	1:CA:609:A:O4'	2.11	0.50
1:CA:781:A:H2'	1:CA:782:A:H5'	1.94	0.50
1:CA:952:U:H2'	1:CA:953:G:C8	2.46	0.50
1:CA:1059:C:OP2	3:CC:199:LYS:NZ	2.40	0.50
1:CA:1106:G:H5"	3:CC:172:ARG:CD	2.42	0.50
3:CC:46:GLU:O	3:CC:47:LEU:HB2	2.11	0.50
6:CF:28:ARG:HG3	6:CF:28:ARG:NH1	2.21	0.50
9:CI:26:VAL:CG2	9:CI:61:ALA:HB3	2.38	0.50
10:CJ:30:SER:HB3	10:CJ:81:THR:HA	1.93	0.50
12:CL:88:GLY:H	12:CL:98:TYR:HA	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:28:ALA:C	13:CM:30:ALA:N	2.68	0.50
22:CY:5:C:C4	22:CY:6:C:N4	2.80	0.50
22:CY:42:C:H2'	22:CY:43:G:H8	1.77	0.50
30:D5:49:CYS:O	30:D5:50:GLY:C	2.54	0.50
35:DA:363(F):A:O2'	35:DA:364:C:C5	2.63	0.50
35:DA:1573:G:C2'	35:DA:1574:C:H5'	2.41	0.50
35:DA:2177:C:H1'	37:DC:45:HIS:CB	2.42	0.50
35:DA:2322:A:H2'	35:DA:2323:G:O4'	2.12	0.50
35:DA:2779:U:H4'	35:DA:2780:G:C5'	2.42	0.50
37:DC:33:LEU:O	37:DC:220:GLY:HA3	2.11	0.50
39:DE:117:MET:O	39:DE:118:LYS:HB2	2.12	0.50
41:DG:15:VAL:HG13	41:DG:175:LEU:HD13	1.93	0.50
41:DG:101:ILE:HG22	41:DG:105:LYS:NZ	2.26	0.50
41:DG:172:LEU:HA	41:DG:175:LEU:HB2	1.93	0.50
42:DH:97:ARG:O	42:DH:103:LEU:HD12	2.12	0.50
43:DI:74:ASN:O	43:DI:76:THR:N	2.38	0.50
43:DI:98:ALA:O	43:DI:99:GLU:C	2.55	0.50
45:DN:15:LEU:CB	45:DN:134:ARG:HB2	2.33	0.50
46:DO:107:ARG:CZ	51:DT:35:LYS:HD2	2.41	0.50
47:DP:7:ARG:HH11	47:DP:7:ARG:CB	2.24	0.50
51:DT:3:ARG:C	51:DT:5:ALA:H	2.18	0.50
55:DX:12:VAL:HG11	55:DX:27:THR:OG1	2.12	0.50
1:AA:166:G:O2'	1:AA:167:G:H5'	2.11	0.50
1:AA:373:A:N3	1:AA:374:A:C8	2.80	0.50
1:AA:797:C:O2'	1:AA:798:G:H5'	2.12	0.50
1:AA:1292:U:H5'	9:AI:38:GLN:HE22	1.75	0.50
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.77	0.50
2:AB:24:TRP:H	2:AB:24:TRP:HD1	1.60	0.50
2:AB:82:ARG:HG3	2:AB:92:TYR:OH	2.12	0.50
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.12	0.50
7:AG:152:ALA:O	7:AG:155:ARG:HG3	2.11	0.50
8:AH:4:ASP:CG	8:AH:85:ARG:HH21	2.20	0.50
9:AI:37:PHE:CE2	9:AI:74:ILE:HG12	2.47	0.50
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CG1	2.26	0.50
12:AL:47:LYS:CE	12:AL:48:PRO:HD3	2.42	0.50
22:AV:57:U:O2	22:AV:59:G:C8	2.65	0.50
23:AW:4:C:C4	23:AW:5:C:N4	2.80	0.50
23:AW:15:G:N7	23:AW:61:A:C2	2.79	0.50
22:AY:52:C:C2	22:AY:53:U:C4	2.99	0.50
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.27	0.50
27:B2:16:LEU:O	27:B2:17:SER:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1040:C:N4	35:BA:1115:G:H1	2.07	0.50
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.46	0.50
35:BA:1155:A:OP2	52:BU:58:ARG:NH1	2.45	0.50
35:BA:1856:G:O2'	35:BA:1857:G:H5'	2.12	0.50
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.47	0.50
35:BA:2846:G:H2'	35:BA:2847:U:O4'	2.12	0.50
38:BD:210:GLY:C	38:BD:212:SER:N	2.69	0.50
43:BI:110:ASP:CB	43:BI:113:ARG:HB2	2.42	0.50
47:BP:57:THR:HB	47:BP:59:LEU:N	2.26	0.50
50:BS:35:ILE:HG23	50:BS:53:SER:HB2	1.94	0.50
50:BS:92:TYR:CG	50:BS:93:LYS:N	2.76	0.50
51:BT:38:ASN:ND2	51:BT:38:ASN:O	2.45	0.50
53:BV:38:LEU:HD12	53:BV:57:VAL:HG12	1.93	0.50
54:BW:50:VAL:HG22	54:BW:50:VAL:O	2.12	0.50
1:CA:398:C:H2'	1:CA:399:G:C8	2.47	0.50
1:CA:427:U:C3'	1:CA:428:G:H5"	2.39	0.50
1:CA:532:A:C2	1:CA:1207:G:H4'	2.47	0.50
1:CA:585:G:N3	1:CA:879:C:H4'	2.27	0.50
1:CA:695:A:H61	1:CA:797:C:H1'	1.77	0.50
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.77	0.50
2:CB:52:GLU:CG	2:CB:56:ARG:HH12	2.24	0.50
2:CB:54:THR:HG22	2:CB:58:ILE:CD1	2.42	0.50
2:CB:82:ARG:HG3	2:CB:92:TYR:OH	2.12	0.50
3:CC:206:GLU:O	3:CC:207:VAL:C	2.54	0.50
4:CD:74:GLN:CA	4:CD:77:ASN:HD22	2.24	0.50
9:CI:85:LEU:HD12	9:CI:86:VAL:N	2.27	0.50
19:CS:6:LYS:CD	19:CS:6:LYS:N	2.75	0.50
19:CS:13:ASP:C	19:CS:15:LEU:H	2.19	0.50
23:CW:71:G:N1	23:CW:72:C:C5	2.80	0.50
26:D1:68:PRO:O	26:D1:70:VAL:N	2.45	0.50
33:D8:33:ASN:HA	33:D8:36:LYS:CD	2.42	0.50
35:DA:80:G:O2'	35:DA:81:G:H5'	2.11	0.50
35:DA:999:U:H5"	35:DA:1154:G:O6	2.11	0.50
36:DB:17:C:C2'	36:DB:18:G:H5'	2.41	0.50
36:DB:106:G:C5'	57:DZ:31:ARG:HG2	2.42	0.50
38:DD:10:THR:C	38:DD:11:PRO:O	2.53	0.50
39:DE:201:THR:OG1	39:DE:202:LYS:N	2.45	0.50
41:DG:73:ALA:N	41:DG:87:PRO:HG3	2.26	0.50
41:DG:104:GLU:C	41:DG:106:LEU:N	2.65	0.50
43:DI:91:SER:OG	43:DI:119:PRO:HB2	2.12	0.50
45:DN:58:ASP:C	45:DN:60:ILE:HG13	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DO:10:VAL:O	46:DO:10:VAL:HG23	2.11	0.50
48:DQ:42:ILE:HG22	48:DQ:47:ILE:HG13	1.93	0.50
48:DQ:60:ARG:HA	57:DZ:179:ASP:HA	1.92	0.50
50:DS:35:ILE:HG23	50:DS:53:SER:HB2	1.94	0.50
54:DW:50:VAL:HG22	54:DW:50:VAL:O	2.11	0.50
55:DX:3:THR:HA	55:DX:6:ASP:HB2	1.94	0.50
56:DY:88:LYS:O	56:DY:90:LEU:HD23	2.12	0.50
57:DZ:41:LEU:O	57:DZ:42:VAL:C	2.55	0.50
57:DZ:44:PHE:C	57:DZ:44:PHE:CD1	2.90	0.50
1:AA:221:C:H2'	1:AA:222:U:H6	1.75	0.50
1:AA:1278:U:H4'	1:AA:1279:A:C8	2.47	0.50
4:AD:170:VAL:O	4:AD:171:GLY:C	2.55	0.50
6:AF:8:ILE:HA	6:AF:87:ARG:O	2.12	0.50
6:AF:68:PRO:HG3	6:AF:71:ARG:NH2	2.27	0.50
9:AI:99:LEU:O	9:AI:101:PHE:N	2.45	0.50
13:AM:7:VAL:O	13:AM:9:ILE:HD12	2.12	0.50
16:AP:25:ARG:HG3	16:AP:25:ARG:HH11	1.76	0.50
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.54	0.50
22:AV:3:G:H2'	22:AV:4:C:H5'	1.94	0.50
22:AV:6:C:C2	22:AV:70:G:C2	3.00	0.50
23:AW:20:G:H4'	23:AW:21:U:OP2	2.12	0.50
23:AW:25:A:C3'	23:AW:26:G:H8	2.24	0.50
23:AW:42:C:H2'	23:AW:43:G:H5'	1.93	0.50
23:AW:64:C:H6	23:AW:64:C:O5'	1.95	0.50
25:B0:74:ARG:HG3	25:B0:74:ARG:HH11	1.76	0.50
35:BA:271(M):G:O2'	35:BA:271(O):C:H5'	2.11	0.50
35:BA:491:G:H2'	35:BA:492:A:H8	1.76	0.50
35:BA:951:C:O2'	35:BA:952:G:H5'	2.12	0.50
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.11	0.50
35:BA:1448:G:N3	35:BA:1528(A):A:H2	2.09	0.50
35:BA:2001:A:H2'	35:BA:2002:G:C8	2.47	0.50
35:BA:2869:G:H2'	35:BA:2870:C:H6	1.75	0.50
39:BE:165:VAL:O	39:BE:189:PRO:HG3	2.11	0.50
42:BH:7:LEU:HD21	42:BH:69:ARG:NH1	2.27	0.50
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.75	0.50
42:BH:94:TYR:H	42:BH:94:TYR:HD1	1.60	0.50
42:BH:148:ILE:C	42:BH:162:ILE:HD11	2.37	0.50
43:BI:124:GLY:H	43:BI:142:VAL:HG11	1.77	0.50
51:BT:28:VAL:HG13	51:BT:46:GLU:CA	2.41	0.50
51:BT:30:VAL:HG21	51:BT:84:GLN:H	1.76	0.50
51:BT:128:GLU:O	51:BT:129:ARG:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:40:ASN:C	54:BW:41:LYS:HG2	2.37	0.50
57:BZ:18:LEU:O	57:BZ:23:LYS:HB2	2.12	0.50
1:CA:278:G:O4'	1:CA:282:A:H1'	2.12	0.50
1:CA:389:A:H2'	1:CA:390:C:H5'	1.94	0.50
1:CA:726:C:O2'	1:CA:727:G:H5'	2.12	0.50
2:CB:142:LEU:HA	2:CB:145:LEU:CB	2.42	0.50
3:CC:148:GLY:CA	3:CC:203:PHE:HB3	2.42	0.50
7:CG:73:MET:HG2	7:CG:90:GLU:HA	1.93	0.50
12:CL:64:TYR:CD1	12:CL:64:TYR:N	2.80	0.50
13:CM:3:ARG:NH2	41:DG:113:ARG:CB	2.74	0.50
15:CO:76:GLU:C	15:CO:78:TYR:H	2.20	0.50
16:CP:48:TRP:CD1	16:CP:48:TRP:H	2.30	0.50
20:CT:51:GLU:HA	20:CT:54:LYS:HZ1	1.77	0.50
22:CV:1:G:H2'	22:CV:2:G:H8	1.77	0.50
23:CW:57:U:C2'	23:CW:59:G:N7	2.75	0.50
22:CY:4:C:H42	22:CY:72:C:H5	1.60	0.50
26:D1:19:GLN:HE21	26:D1:19:GLN:CA	2.17	0.50
28:D3:46:ASN:O	28:D3:50:VAL:HG22	2.12	0.50
29:D4:47:GLN:O	29:D4:48:ARG:HB3	2.11	0.50
32:D7:47:ARG:HH11	55:DX:60:ARG:HH21	1.60	0.50
35:DA:57:C:H2'	35:DA:58:G:O4'	2.12	0.50
35:DA:350:U:H2'	35:DA:351:G:O4'	2.12	0.50
35:DA:570:G:H2'	35:DA:2030:A:C6	2.47	0.50
35:DA:902:C:H2'	35:DA:903:C:C6	2.46	0.50
35:DA:1165:U:O2'	35:DA:1166:C:H5'	2.12	0.50
35:DA:1419:A:O2'	35:DA:1420:U:H5"	2.12	0.50
35:DA:1914:C:H2'	35:DA:1915:U:O4'	2.11	0.50
35:DA:2112:G:O2'	35:DA:2113:U:H5'	2.12	0.50
35:DA:2138:C:H2'	35:DA:2139:C:C6	2.47	0.50
35:DA:2301:C:H2'	35:DA:2302:G:O4'	2.12	0.50
35:DA:2377:A:H4'	50:DS:107:GLU:HG3	1.94	0.50
39:DE:24:THR:HG21	39:DE:188:VAL:CG1	2.37	0.50
40:DF:60:SER:OG	40:DF:61:GLY:N	2.44	0.50
41:DG:72:ARG:CB	41:DG:87:PRO:HD2	2.42	0.50
43:DI:83:ALA:CA	43:DI:88:ILE:HG23	2.42	0.50
43:DI:129:THR:CG2	43:DI:135:GLU:HG3	2.41	0.50
45:DN:15:LEU:HD13	45:DN:15:LEU:C	2.37	0.50
47:DP:9:ASN:N	47:DP:10:PRO:HD2	2.10	0.50
47:DP:13:ASN:C	47:DP:13:ASN:ND2	2.69	0.50
48:DQ:63:LYS:HE2	57:DZ:118:GLN:NE2	2.27	0.50
48:DQ:130:LYS:NZ	57:DZ:80:ARG:HA	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:58:ASN:N	51:DT:58:ASN:HD22	2.09	0.50
52:DU:60:LEU:HD22	52:DU:60:LEU:O	2.12	0.50
52:DU:61:TRP:CE2	52:DU:94:ASN:HA	2.47	0.50
52:DU:65:ILE:CD1	52:DU:96:ALA:HB3	2.42	0.50
1:AA:260:G:H2'	1:AA:261:U:C6	2.47	0.49
1:AA:401:C:H2'	1:AA:402:G:C8	2.47	0.49
1:AA:952:U:H2'	1:AA:953:G:C8	2.45	0.49
1:AA:1059:C:OP2	3:AC:199:LYS:NZ	2.41	0.49
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.77	0.49
2:AB:79:ASP:C	2:AB:81:VAL:N	2.69	0.49
4:AD:192:GLU:CD	4:AD:192:GLU:H	2.20	0.49
6:AF:8:ILE:CG2	6:AF:9:VAL:N	2.74	0.49
7:AG:150:ALA:C	7:AG:152:ALA:H	2.19	0.49
9:AI:4:TYR:O	9:AI:18:PHE:HA	2.12	0.49
11:AK:22:HIS:HB3	11:AK:29:ILE:CG2	2.41	0.49
17:AQ:50:LYS:HG3	17:AQ:51:TYR:CE1	2.47	0.49
20:AT:102:GLY:O	20:AT:103:GLY:C	2.55	0.49
21:AU:22:ARG:O	21:AU:23:PRO:C	2.55	0.49
22:AV:4:C:C2	22:AV:5:C:C6	3.01	0.49
22:AV:70:G:C4	22:AV:71:G:C8	2.99	0.49
22:AV:78:A:OP1	22:AV:78:A:H4'	2.11	0.49
23:AW:70:G:C6	23:AW:71:G:C5	2.99	0.49
22:AY:60:A:C6	57:BZ:186:GLU:CD	2.90	0.49
26:B1:68:PRO:O	26:B1:70:VAL:N	2.45	0.49
30:B5:51:TYR:OH	30:B5:52:TYR:HD2	1.95	0.49
34:B9:14:CYS:SG	34:B9:27:CYS:HB2	2.52	0.49
35:BA:1484:G:C3'	35:BA:1485:G:H5"	2.42	0.49
35:BA:1682:G:H5'	35:BA:1762:A:O2'	2.12	0.49
35:BA:1999:C:H5"	35:BA:2723:C:O2'	2.11	0.49
35:BA:2014:A:H2'	35:BA:2015:A:C8	2.47	0.49
39:BE:63:LEU:O	39:BE:65:GLY:N	2.45	0.49
41:BG:97:ASP:C	41:BG:99:MET:N	2.69	0.49
42:BH:28:GLY:HA3	42:BH:79:VAL:HB	1.93	0.49
43:BI:48:GLU:HA	43:BI:51:ILE:HB	1.93	0.49
43:BI:68:LEU:CD2	43:BI:72:LEU:HD11	2.42	0.49
48:BQ:59:ARG:O	48:BQ:59:ARG:HG3	2.12	0.49
49:BR:87:TYR:HB3	49:BR:94:TYR:CD2	2.47	0.49
50:BS:46:VAL:HG12	50:BS:47:THR:N	2.27	0.49
51:BT:34:VAL:CG1	51:BT:35:LYS:H	2.24	0.49
52:BU:60:LEU:HD22	52:BU:60:LEU:O	2.11	0.49
52:BU:108:GLU:CG	53:BV:44:LYS:HD3	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:12:VAL:HG11	55:BX:27:THR:OG1	2.11	0.49
56:BY:13:VAL:CG1	56:BY:28:LYS:HD3	2.41	0.49
1:CA:373:A:N3	1:CA:374:A:C8	2.80	0.49
1:CA:691:G:H1'	1:CA:696:A:N6	2.26	0.49
2:CB:162:ILE:O	2:CB:162:ILE:HG13	2.11	0.49
5:CE:127:ASN:O	5:CE:131:ILE:HG12	2.11	0.49
11:CK:67:ASP:O	11:CK:71:LYS:HG3	2.11	0.49
13:CM:7:VAL:O	13:CM:9:ILE:HD12	2.11	0.49
13:CM:23:TYR:CE2	13:CM:71:ARG:HB2	2.47	0.49
16:CP:19:ILE:HB	16:CP:37:GLY:O	2.12	0.49
16:CP:48:TRP:O	16:CP:49:LEU:HB2	2.12	0.49
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.54	0.49
17:CQ:63:ARG:HG2	17:CQ:64:PRO:CD	2.42	0.49
22:CV:3:G:N2	22:CV:4:C:C2	2.80	0.49
22:CV:44:A:C6	22:CV:45:U:C5	3.00	0.49
23:CW:11:C:H2'	23:CW:12:U:C1'	2.41	0.49
23:CW:48:G:O5'	23:CW:49:G:OP2	2.30	0.49
23:CW:74:C:C6	23:CW:74:C:C5'	2.95	0.49
22:CY:16:U:O5'	22:CY:16:U:H6	1.94	0.49
25:D0:10:THR:HG21	35:DA:2277:G:OP2	2.11	0.49
27:D2:55:ARG:O	27:D2:58:ALA:HB3	2.12	0.49
35:DA:558:G:OP2	45:DN:111:PRO:HD2	2.11	0.49
35:DA:692:C:H2'	35:DA:693:C:H6	1.77	0.49
35:DA:693:C:O2'	35:DA:694:U:H5'	2.12	0.49
35:DA:1484:G:N2	35:DA:1505:C:H42	2.10	0.49
35:DA:1484:G:C3'	35:DA:1485:G:H5"	2.42	0.49
35:DA:1670:C:O2	39:DE:129:HIS:HE1	1.95	0.49
35:DA:2116:G:N7	35:DA:2117:A:C2	2.80	0.49
35:DA:2140:C:H2'	35:DA:2141:G:C8	2.47	0.49
35:DA:2295:C:O2'	35:DA:2296:U:H5'	2.11	0.49
40:DF:41:LEU:O	40:DF:44:ARG:HG2	2.12	0.49
41:DG:57:ALA:HA	41:DG:90:LEU:HD23	1.94	0.49
46:DO:43:VAL:CG2	46:DO:56:ASP:HB2	2.41	0.49
48:DQ:10:ARG:HB2	48:DQ:10:ARG:NH1	2.23	0.49
48:DQ:51:ARG:HH21	48:DQ:52:VAL:HG23	1.77	0.49
48:DQ:134:ARG:CZ	57:DZ:122:ARG:NE	2.73	0.49
50:DS:48:LEU:HD12	50:DS:48:LEU:N	2.27	0.49
50:DS:89:ARG:HG2	50:DS:89:ARG:HH11	1.77	0.49
51:DT:121:ILE:O	51:DT:124:ASP:HB2	2.11	0.49
56:DY:98:VAL:HG12	56:DY:98:VAL:O	2.12	0.49
1:AA:142:G:H2'	1:AA:143:A:H8	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:148:G:O2'	1:AA:149:A:H5'	2.12	0.49
2:AB:37:ASN:O	2:AB:37:ASN:OD1	2.30	0.49
4:AD:79:PHE:CD2	4:AD:207:TYR:HD2	2.29	0.49
5:AE:7:GLU:O	5:AE:8:GLU:HB3	2.13	0.49
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.40	0.49
19:AS:6:LYS:H	19:AS:6:LYS:CE	2.24	0.49
19:AS:33:THR:HG22	19:AS:50:ALA:O	2.12	0.49
23:AW:26:G:C2'	23:AW:27:C:C6	2.93	0.49
22:AY:4:C:C2	22:AY:5:C:C6	3.00	0.49
30:B5:3:LYS:HD3	35:BA:747:U:O4	2.12	0.49
35:BA:225:A:O2'	35:BA:257:A:H4'	2.12	0.49
35:BA:558:G:OP2	45:BN:111:PRO:HD2	2.12	0.49
35:BA:772:C:O2'	35:BA:773:U:H5'	2.11	0.49
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.12	0.49
35:BA:1886:C:H2'	35:BA:1887:C:H6	1.76	0.49
35:BA:2755:C:O2'	35:BA:2756:U:H6	1.92	0.49
35:BA:2833:G:C3'	35:BA:2834:G:C5'	2.87	0.49
36:BB:17:C:C2'	36:BB:18:G:H5'	2.42	0.49
37:BC:33:LEU:O	37:BC:220:GLY:HA3	2.13	0.49
39:BE:134:ILE:HD12	39:BE:134:ILE:O	2.12	0.49
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.76	0.49
42:BH:115:VAL:HG11	42:BH:148:ILE:CD1	2.42	0.49
43:BI:93:THR:CG2	43:BI:119:PRO:HB3	2.41	0.49
43:BI:123:LEU:HD11	43:BI:144:VAL:HG21	1.91	0.49
45:BN:15:LEU:HD13	45:BN:15:LEU:C	2.36	0.49
45:BN:67:LEU:HD23	45:BN:87:LEU:HD13	1.93	0.49
49:BR:28:LEU:O	49:BR:28:LEU:HD22	2.12	0.49
51:BT:28:VAL:HG21	51:BT:46:GLU:HG3	1.94	0.49
51:BT:90:GLN:O	51:BT:91:ARG:C	2.54	0.49
56:BY:31:LEU:HB2	56:BY:32:PRO:CA	2.41	0.49
57:BZ:72:ARG:HG3	57:BZ:72:ARG:NH1	2.27	0.49
1:CA:47:C:O2	1:CA:49:U:C4	2.65	0.49
1:CA:203:U:OP2	1:CA:203:U:H6	1.96	0.49
1:CA:353:A:H8	1:CA:353:A:H5'	1.76	0.49
1:CA:421:U:O2	1:CA:421:U:C2'	2.60	0.49
1:CA:828:A:N3	2:CB:26:PRO:HG3	2.28	0.49
1:CA:1054:C:O2'	1:CA:1055:A:P	2.70	0.49
1:CA:1147:C:O2	9:CI:16:ARG:NH1	2.41	0.49
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.77	0.49
1:CA:1458:G:O2'	1:CA:1459:C:H5'	2.12	0.49
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.94	0.49
3:CC:156:ARG:NH2	3:CC:159:GLY:O	2.42	0.49
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.94	0.49
9:CI:4:TYR:O	9:CI:18:PHE:HA	2.12	0.49
10:CJ:16:LEU:HD11	10:CJ:70:ARG:HG3	1.93	0.49
12:CL:39:VAL:HG12	12:CL:40:VAL:N	2.26	0.49
12:CL:47:LYS:CE	12:CL:48:PRO:HD3	2.42	0.49
12:CL:69:TYR:O	12:CL:71:PRO:HD3	2.11	0.49
13:CM:89:GLY:HA2	13:CM:93:ARG:NH1	2.27	0.49
17:CQ:50:LYS:HG3	17:CQ:51:TYR:CE1	2.47	0.49
20:CT:14:LYS:O	20:CT:18:GLN:HB2	2.11	0.49
20:CT:47:GLY:O	20:CT:48:LYS:C	2.55	0.49
20:CT:99:LEU:O	20:CT:101:GLY:N	2.44	0.49
27:D2:30:ARG:O	27:D2:31:GLU:C	2.55	0.49
29:D4:51:ASP:OD1	29:D4:51:ASP:C	2.54	0.49
33:D8:50:LEU:CD1	33:D8:51:ALA:N	2.73	0.49
35:DA:270:A:O2'	35:DA:271:A:H5'	2.12	0.49
35:DA:654(D):G:O6	35:DA:654(R):C:H1'	2.12	0.49
35:DA:1188:U:H2'	35:DA:1189:A:H5'	1.93	0.49
35:DA:1579:A:H2'	35:DA:1580:A:O4'	2.12	0.49
35:DA:2360:A:O2'	35:DA:2361:A:O5'	2.31	0.49
37:DC:166:ASN:HB3	37:DC:172:ILE:HB	1.93	0.49
41:DG:99:MET:O	41:DG:102:PHE:HB3	2.12	0.49
45:DN:67:LEU:O	45:DN:68:GLU:CB	2.60	0.49
47:DP:45:LEU:HD22	47:DP:46:LYS:H	1.77	0.49
50:DS:73:LEU:HD23	50:DS:73:LEU:C	2.37	0.49
51:DT:34:VAL:HG13	51:DT:39:ARG:HA	1.94	0.49
56:DY:13:VAL:CG1	56:DY:28:LYS:HD3	2.41	0.49
56:DY:65:ALA:HB1	56:DY:66:PRO:HD2	1.94	0.49
57:DZ:14:LYS:C	57:DZ:16:SER:H	2.19	0.49
57:DZ:44:PHE:CE2	57:DZ:86:VAL:HG21	2.47	0.49
1:AA:599:C:O2'	1:AA:600:C:H5'	2.11	0.49
1:AA:605:U:H2'	1:AA:606:G:C8	2.46	0.49
1:AA:1054:C:N4	22:AY:36:AG9:N1	2.59	0.49
1:AA:1055:A:N3	3:AC:156:ARG:HD2	2.26	0.49
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.47	0.49
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.12	0.49
1:AA:1502:A:C2	1:AA:1505:G:N2	2.79	0.49
3:AC:16:ARG:HH11	3:AC:16:ARG:CB	2.24	0.49
3:AC:127:ARG:HG2	3:AC:127:ARG:NH1	2.27	0.49
3:AC:181:ASN:HD22	3:AC:205:GLY:H	1.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:96:LEU:HG	4:AD:139:ARG:NH2	2.25	0.49
5:AE:111:GLU:C	5:AE:113:ALA:H	2.20	0.49
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.94	0.49
6:AF:11:ASN:HB3	6:AF:14:LEU:HD21	1.94	0.49
10:AJ:42:THR:HA	10:AJ:68:HIS:HA	1.94	0.49
12:AL:64:TYR:N	12:AL:64:TYR:CD1	2.80	0.49
13:AM:117:VAL:O	13:AM:118:ALA:HB2	2.13	0.49
15:AO:76:GLU:C	15:AO:78:TYR:H	2.20	0.49
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.40	0.49
20:AT:38:LYS:HA	20:AT:41:ILE:CD1	2.42	0.49
22:AV:23:A:H3'	22:AV:48:G:O6	2.13	0.49
23:AW:4:C:H42	23:AW:72:C:N4	2.09	0.49
23:AW:29:A:P	23:AW:29:A:H8	2.35	0.49
22:AY:35:U:H3'	22:AY:36:AG9:C5'	2.36	0.49
25:B0:77:ARG:NH2	35:BA:857:C:OP1	2.43	0.49
29:B4:1:MET:SD	41:BG:98:ARG:CG	2.95	0.49
31:B6:5:VAL:HG12	31:B6:8:LYS:CB	2.43	0.49
34:B9:9:ARG:NH1	34:B9:16:VAL:HG23	2.26	0.49
35:BA:309:G:N3	35:BA:329:G:O2'	2.46	0.49
35:BA:648:G:O2'	35:BA:649:G:H5'	2.12	0.49
35:BA:914:C:H2'	35:BA:915:C:C5'	2.33	0.49
35:BA:1316:U:H2'	35:BA:1317:A:C8	2.47	0.49
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.47	0.49
40:BF:34:TRP:CH2	47:BP:12:ALA:HB2	2.46	0.49
41:BG:7:LEU:HB3	41:BG:100:TRP:HE3	1.75	0.49
41:BG:72:ARG:CD	41:BG:86:MET:HA	2.35	0.49
41:BG:152:LEU:H	41:BG:152:LEU:CD2	2.15	0.49
43:BI:111:PRO:HB2	43:BI:112:LYS:HD2	1.95	0.49
45:BN:58:ASP:O	45:BN:59:LYS:HB2	2.12	0.49
47:BP:23:PRO:O	47:BP:33:ARG:NH1	2.45	0.49
51:BT:33:LYS:HZ1	51:BT:74:ARG:NH2	2.09	0.49
53:BV:66:ARG:HH11	53:BV:66:ARG:HG2	1.77	0.49
1:CA:648:A:H2'	1:CA:649:G:H8	1.78	0.49
1:CA:991:U:O2	1:CA:993:G:C8	2.63	0.49
1:CA:1042:G:H2'	1:CA:1043:C:C6	2.47	0.49
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.47	0.49
1:CA:1298:C:H4'	1:CA:1299:A:O4'	2.12	0.49
1:CA:1353:G:O2'	1:CA:1354:C:H5'	2.12	0.49
1:CA:1442(B):A:C4	51:DT:118:ARG:CZ	2.95	0.49
6:CF:8:ILE:HA	6:CF:87:ARG:O	2.11	0.49
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:150:ALA:C	7:CG:152:ALA:H	2.20	0.49
10:CJ:3:LYS:HD2	10:CJ:77:PRO:CD	2.42	0.49
11:CK:82:VAL:HB	11:CK:108:ILE:HG13	1.94	0.49
12:CL:84:LEU:HD12	12:CL:104:VAL:HG11	1.93	0.49
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	1.95	0.49
19:CS:19:VAL:HG12	19:CS:23:ASN:HD21	1.77	0.49
22:CV:24:A:C2	22:CV:25:A:N7	2.80	0.49
22:CV:25:A:C6	22:CV:26:G:C6	3.00	0.49
22:CV:43:G:O2'	22:CV:44:A:H5'	2.12	0.49
22:CY:57:U:O5'	57:DZ:182:LYS:C	2.55	0.49
26:D1:6:GLU:C	26:D1:7:ILE:HD12	2.36	0.49
30:D5:41:PRO:HG2	30:D5:44:THR:OG1	2.12	0.49
35:DA:271(C):C:O2'	35:DA:271(D):G:H5'	2.12	0.49
35:DA:297:C:H2'	35:DA:298:G:O4'	2.12	0.49
35:DA:484:C:OP1	56:DY:50:ARG:NE	2.45	0.49
35:DA:535:C:O3'	52:DU:53:ARG:NH1	2.45	0.49
35:DA:870:A:C2	35:DA:908:C:C2	3.00	0.49
35:DA:1488:G:N3	35:DA:1488:G:H2'	2.27	0.49
35:DA:2500:U:O2	35:DA:2504:U:C5	2.65	0.49
35:DA:2632:A:C2	39:DE:61:ARG:HD2	2.46	0.49
35:DA:2713:A:C3'	35:DA:2714:G:C5'	2.90	0.49
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	1.94	0.49
39:DE:93:VAL:HG12	39:DE:175:VAL:CG2	2.42	0.49
39:DE:108:SER:O	39:DE:162:ALA:HA	2.12	0.49
40:DF:34:TRP:CH2	47:DP:12:ALA:HB2	2.46	0.49
41:DG:139:LEU:HD12	41:DG:140:ILE:H	1.74	0.49
45:DN:65:LYS:O	45:DN:69:GLN:HG3	2.13	0.49
45:DN:134:ARG:O	45:DN:136:GLU:N	2.45	0.49
49:DR:87:TYR:HB3	49:DR:94:TYR:CD2	2.47	0.49
55:DX:29:TRP:CE3	55:DX:78:LYS:HB3	2.47	0.49
57:DZ:30:ASN:O	57:DZ:32:HIS:N	2.44	0.49
1:AA:352:C:H4'	1:AA:354:G:OP1	2.13	0.49
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.12	0.49
1:AA:1298:C:H4'	1:AA:1299:A:O4'	2.13	0.49
4:AD:97:LEU:O	4:AD:97:LEU:HD23	2.13	0.49
9:AI:113:LYS:H	9:AI:119:ALA:HA	1.75	0.49
10:AJ:23:ILE:HG23	10:AJ:85:LEU:CD2	2.40	0.49
12:AL:33:ARG:HB3	12:AL:85:ILE:HG22	1.94	0.49
12:AL:47:LYS:HE2	12:AL:48:PRO:CB	2.39	0.49
22:AV:20:G:C8	22:AV:59:G:N2	2.81	0.49
23:AW:5:C:H1'	23:AW:72:C:O2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:12:U:OP2	23:AW:12:U:H6	1.96	0.49
23:AW:32:G:H2'	23:AW:33:G:H8	1.77	0.49
22:AY:23:A:C2'	22:AY:24:A:H8	2.23	0.49
22:AY:25:A:N3	22:AY:26:G:C5	2.80	0.49
22:AY:56:U:C2	57:BZ:183:LEU:CB	2.94	0.49
22:AY:56:U:N1	57:BZ:182:LYS:O	2.45	0.49
22:AY:60:A:C6	57:BZ:186:GLU:OE1	2.66	0.49
27:B2:32:LEU:CD1	27:B2:36:ARG:NH1	2.75	0.49
27:B2:48:HIS:O	27:B2:49:LYS:C	2.56	0.49
33:B8:37:SER:O	33:B8:39:LYS:N	2.46	0.49
33:B8:47:LYS:HD2	33:B8:48:PHE:N	2.27	0.49
33:B8:48:PHE:O	33:B8:49:VAL:CG2	2.60	0.49
33:B8:48:PHE:C	33:B8:49:VAL:HG22	2.38	0.49
35:BA:364:C:H2'	35:BA:365:C:C5'	2.43	0.49
35:BA:902:C:H2'	35:BA:903:C:C6	2.48	0.49
35:BA:1140:C:OP1	45:BN:23:LEU:HD23	2.13	0.49
37:BC:29:LEU:HD22	37:BC:33:LEU:HD11	1.95	0.49
40:BF:8:GLN:O	40:BF:9:ILE:C	2.56	0.49
41:BG:64:THR:HG23	41:BG:66:GLN:N	2.25	0.49
42:BH:88:LEU:N	42:BH:88:LEU:HD22	2.26	0.49
43:BI:10:GLU:OE1	43:BI:11:ASN:HB2	2.12	0.49
45:BN:41:ASP:O	45:BN:42:TRP:O	2.30	0.49
48:BQ:132:VAL:CG1	57:BZ:81:ARG:HE	2.24	0.49
50:BS:97:ARG:NH1	50:BS:97:ARG:HG2	2.28	0.49
56:BY:65:ALA:HB1	56:BY:66:PRO:HD2	1.94	0.49
57:BZ:23:LYS:HA	57:BZ:40:ASP:HA	1.94	0.49
1:CA:156:G:O2'	1:CA:157:G:H5'	2.12	0.49
1:CA:605:U:H2'	1:CA:606:G:C8	2.47	0.49
1:CA:1053:G:N7	1:CA:1200:C:C5'	2.73	0.49
1:CA:1107:C:H2'	1:CA:1108:G:H5"	1.94	0.49
2:CB:22:LYS:H	2:CB:40:HIS:HE1	1.58	0.49
3:CC:17:ASP:O	3:CC:18:TRP:C	2.55	0.49
3:CC:108:ASN:OD1	3:CC:110:ASN:HB2	2.11	0.49
12:CL:41:ARG:O	12:CL:55:VAL:HG22	2.12	0.49
15:CO:56:LEU:HA	15:CO:59:MET:HE3	1.95	0.49
18:CR:50:ILE:HD11	18:CR:70:ILE:HG21	1.94	0.49
22:CV:20:G:C4	22:CV:59:G:C2	3.00	0.49
22:CY:57:U:C2	57:DZ:184:ALA:HB3	2.41	0.49
22:CY:63:C:O2'	22:CY:64:C:H5'	2.13	0.49
35:DA:479:A:H4'	35:DA:480:A:OP1	2.11	0.49
35:DA:654(L):G:H2'	35:DA:654(M):C:H4'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.47	0.49
35:DA:1817:G:C2'	35:DA:1818:U:H5'	2.41	0.49
35:DA:1856:G:H2'	35:DA:1857:G:C5'	2.41	0.49
35:DA:1860:G:O3'	37:DC:206:LYS:HB2	2.12	0.49
37:DC:29:LEU:HD22	37:DC:33:LEU:HD11	1.93	0.49
38:DD:133:LEU:HB3	38:DD:173:VAL:HG11	1.94	0.49
39:DE:11:MET:HB2	39:DE:23:VAL:O	2.12	0.49
39:DE:65:GLY:C	39:DE:67:PHE:N	2.68	0.49
40:DF:20:LEU:O	40:DF:21:ALA:O	2.31	0.49
41:DG:85:GLY:C	41:DG:87:PRO:HD3	2.38	0.49
41:DG:117:PHE:O	41:DG:118:ARG:CB	2.59	0.49
47:DP:71:VAL:C	47:DP:73:GLY:N	2.70	0.49
49:DR:2:ARG:CD	49:DR:5:LYS:HE2	2.38	0.49
50:DS:35:ILE:H	50:DS:53:SER:CB	2.25	0.49
1:AA:72:C:H2'	1:AA:73:G:H8	1.77	0.49
1:AA:262:A:C6	1:AA:263:A:C6	3.00	0.49
1:AA:666:G:C5	1:AA:741:G:C6	3.00	0.49
1:AA:779:C:O2'	1:AA:780:A:H5'	2.12	0.49
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.48	0.49
1:AA:1327:C:H5"	21:AU:20:LYS:HB3	1.94	0.49
1:AA:1435:G:C2	1:AA:1436:U:C4	3.01	0.49
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.77	0.49
7:AG:113:GLU:CB	7:AG:118:VAL:HG23	2.42	0.49
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.27	0.49
12:AL:39:VAL:HG12	12:AL:40:VAL:H	1.77	0.49
17:AQ:78:GLU:OE1	17:AQ:81:ARG:HD3	2.13	0.49
20:AT:93:GLU:O	20:AT:95:ALA:N	2.45	0.49
23:AW:7:U:N3	23:AW:68:A:N6	2.61	0.49
25:B0:25:ARG:HD2	25:B0:29:GLN:NE2	2.27	0.49
29:B4:1:MET:HG2	41:BG:98:ARG:HG3	1.94	0.49
29:B4:47:GLN:O	29:B4:48:ARG:HB3	2.13	0.49
29:B4:48:ARG:HG3	29:B4:49:PHE:HD1	1.77	0.49
33:B8:33:ASN:ND2	33:B8:33:ASN:N	2.57	0.49
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.95	0.49
35:BA:1003:G:N2	35:BA:1153:C:C2	2.81	0.49
35:BA:1541:G:H1'	35:BA:1542:A:C5	2.47	0.49
35:BA:2177:C:H1'	37:BC:45:HIS:CB	2.42	0.49
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.47	0.49
35:BA:2611:U:H5'	35:BA:2611:U:H6	1.78	0.49
37:BC:46:ALA:HA	37:BC:212:SER:O	2.12	0.49
39:BE:203:LYS:HD2	39:BE:203:LYS:C	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:41:MET:SD	42:BH:53:GLU:O	2.70	0.49
44:BJ:22:UNK:C	44:BJ:119:UNK:HA	2.42	0.49
47:BP:56:SER:O	47:BP:57:THR:C	2.54	0.49
50:BS:31:SER:C	50:BS:33:LYS:N	2.70	0.49
51:BT:28:VAL:CG1	51:BT:29:ARG:HH11	2.25	0.49
51:BT:58:ASN:N	51:BT:58:ASN:HD22	2.10	0.49
1:CA:35:G:H2'	1:CA:36:C:C6	2.48	0.49
1:CA:356:A:O2'	1:CA:357:G:H5'	2.13	0.49
1:CA:777:A:H2'	1:CA:778:G:C8	2.46	0.49
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.77	0.49
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.52	0.49
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.47	0.49
2:CB:84:GLU:CB	2:CB:219:VAL:HG21	2.30	0.49
12:CL:49:ASN:ND2	12:CL:49:ASN:N	2.54	0.49
19:CS:62:ILE:HD12	19:CS:66:MET:CE	2.34	0.49
20:CT:13:LEU:C	20:CT:15:ARG:N	2.67	0.49
20:CT:32:ALA:O	20:CT:36:LEU:HD23	2.12	0.49
22:CY:19:G:C2	22:CY:59:G:C2	3.00	0.49
25:D0:74:ARG:HH11	25:D0:74:ARG:HG3	1.77	0.49
27:D2:7:ARG:O	27:D2:11:GLU:HG3	2.12	0.49
27:D2:46:GLN:H	27:D2:49:LYS:HD2	1.77	0.49
35:DA:144:C:H2'	35:DA:145:G:H8	1.78	0.49
35:DA:979:G:H3'	35:DA:980:A:C5'	2.43	0.49
35:DA:1652:A:O3'	35:DA:1653:G:C8	2.65	0.49
35:DA:1747(A):G:O2'	35:DA:1748:G:H5"	2.11	0.49
38:DD:224:ALA:O	38:DD:225:ALA:HB2	2.12	0.49
39:DE:203:LYS:HD2	39:DE:203:LYS:C	2.36	0.49
40:DF:63:LYS:HZ1	40:DF:67:GLN:HB2	1.77	0.49
40:DF:160:ASN:C	40:DF:160:ASN:ND2	2.70	0.49
41:DG:64:THR:HG23	41:DG:66:GLN:N	2.27	0.49
41:DG:86:MET:N	41:DG:87:PRO:CD	2.76	0.49
41:DG:124:SER:HB2	41:DG:131:TYR:CE2	2.47	0.49
43:DI:10:GLU:O	43:DI:12:LEU:HD23	2.11	0.49
43:DI:73:GLU:CG	43:DI:74:ASN:N	2.76	0.49
46:DO:114:ILE:H	46:DO:114:ILE:CD1	2.24	0.49
47:DP:131:SER:O	47:DP:132:LYS:C	2.55	0.49
48:DQ:29:PHE:HB2	48:DQ:105:GLU:OE2	2.12	0.49
50:DS:17:ARG:C	50:DS:19:LYS:H	2.20	0.49
50:DS:90:GLY:O	50:DS:92:TYR:N	2.43	0.49
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.13	0.49
1:AA:255:G:H4'	17:AQ:17:LYS:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:320:C:H2'	1:AA:321:A:C8	2.47	0.49
1:AA:1139:G:N3	1:AA:1141:C:N4	2.60	0.49
3:AC:106:VAL:HG12	3:AC:108:ASN:H	1.77	0.49
3:AC:118:GLN:O	3:AC:122:GLU:HG3	2.13	0.49
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.94	0.49
3:AC:173:VAL:O	3:AC:173:VAL:HG12	2.13	0.49
10:AJ:98:ILE:HD12	10:AJ:98:ILE:N	2.28	0.49
18:AR:30:ASP:O	18:AR:32:ARG:N	2.46	0.49
18:AR:52:PRO:O	18:AR:56:THR:HG23	2.13	0.49
22:AV:58:C:N3	41:BG:84:LYS:HE2	2.27	0.49
23:AW:35:U:C4	23:AW:37:A:H5"	2.48	0.49
29:B4:5:ILE:CD1	41:BG:67:LYS:HZ3	2.24	0.49
35:BA:154(A):C:H3'	35:BA:155:U:H5"	1.93	0.49
35:BA:239:U:H2'	35:BA:240:G:O4'	2.13	0.49
35:BA:923:C:O2'	35:BA:924:C:H5'	2.13	0.49
35:BA:1354:A:H2'	35:BA:1355:G:O4'	2.13	0.49
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.27	0.49
35:BA:2201:C:O2'	35:BA:2202:C:H5'	2.13	0.49
35:BA:2271:G:H2'	35:BA:2272:U:C6	2.48	0.49
39:BE:21:VAL:HG23	39:BE:23:VAL:CG1	2.42	0.49
39:BE:69:LYS:HE3	39:BE:90:THR:N	2.20	0.49
39:BE:93:VAL:HG12	39:BE:175:VAL:CG2	2.43	0.49
41:BG:42:GLY:O	41:BG:88:ILE:HG22	2.12	0.49
48:BQ:54:MET:HG3	48:BQ:117:ALA:HB1	1.94	0.49
48:BQ:110:THR:C	48:BQ:112:GLU:N	2.68	0.49
49:BR:101:ALA:O	49:BR:102:GLU:CB	2.57	0.49
1:CA:406:G:N2	1:CA:437:U:H3	2.11	0.49
1:CA:532:A:H2	1:CA:1207:G:C4'	2.26	0.49
1:CA:1064:G:O4'	1:CA:1066:C:H1'	2.13	0.49
1:CA:1400:C:H6	1:CA:1400:C:C5'	2.25	0.49
4:CD:24:GLU:HB2	4:CD:112:VAL:HG21	1.95	0.49
8:CH:1:MET:HE3	8:CH:3:THR:HG23	1.94	0.49
8:CH:30:ARG:HB3	8:CH:30:ARG:NH1	2.28	0.49
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.71	0.49
22:CV:11:C:C6	22:CV:12:U:C5	3.01	0.49
22:CY:14:A:C6	22:CY:24:A:C5	3.01	0.49
29:D4:27:THR:O	29:D4:28:LYS:CB	2.59	0.49
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.74	0.49
35:DA:1429:G:H2'	35:DA:1430:C:C6	2.48	0.49
35:DA:1689:A:N6	35:DA:1698:A:H2	1.97	0.49
35:DA:1719:G:H2'	35:DA:1720:U:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2271:G:H2'	35:DA:2272:U:H6	1.77	0.49
35:DA:2665:A:H4'	35:DA:2665:A:OP1	2.11	0.49
39:DE:34:VAL:CG2	39:DE:34:VAL:O	2.59	0.49
42:DH:9:ILE:O	42:DH:9:ILE:CG2	2.59	0.49
42:DH:119:GLU:HG2	42:DH:120:GLY:N	2.27	0.49
43:DI:142:VAL:HG12	43:DI:142:VAL:O	2.11	0.49
45:DN:58:ASP:O	45:DN:60:ILE:N	2.36	0.49
46:DO:119:PRO:HB2	51:DT:68:TYR:CE2	2.47	0.49
47:DP:16:ARG:HH11	47:DP:16:ARG:CB	2.24	0.49
48:DQ:56:ARG:CD	57:DZ:180:VAL:HG11	2.42	0.49
48:DQ:110:THR:C	48:DQ:112:GLU:H	2.20	0.49
57:DZ:97:GLU:HA	57:DZ:126:VAL:O	2.13	0.49
1:AA:43:C:H42	1:AA:399:G:H1	1.61	0.49
1:AA:170:U:H2'	1:AA:171:A:H8	1.76	0.49
1:AA:520:A:OP2	12:AL:51:ALA:HB1	2.12	0.49
1:AA:606:G:N2	1:AA:631:G:H2'	2.27	0.49
1:AA:1147:C:O2	9:AI:16:ARG:NH1	2.42	0.49
1:AA:1319:A:H61	1:AA:1361:G:H21	1.61	0.49
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.13	0.49
2:AB:98:LEU:HB2	2:AB:101:MET:HE3	1.93	0.49
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.95	0.49
2:AB:206:ASP:O	2:AB:211:ILE:HD11	2.13	0.49
6:AF:63:TYR:N	6:AF:63:TYR:CD1	2.80	0.49
8:AH:11:THR:CG2	8:AH:14:ARG:HH12	2.24	0.49
8:AH:25:ASP:OD2	8:AH:60:ARG:HD2	2.13	0.49
8:AH:83:ILE:O	8:AH:83:ILE:HG13	2.12	0.49
10:AJ:30:SER:HB3	10:AJ:81:THR:HA	1.95	0.49
12:AL:38:THR:CG2	12:AL:39:VAL:N	2.69	0.49
12:AL:75:HIS:HB2	12:AL:77:LEU:HG	1.94	0.49
13:AM:24:GLY:C	13:AM:25:ILE:HG13	2.38	0.49
23:AW:37:A:C2	23:AW:38:U:C2	3.00	0.49
29:B4:5:ILE:CD1	41:BG:67:LYS:NZ	2.76	0.49
33:B8:50:LEU:CD1	33:B8:51:ALA:N	2.74	0.49
35:BA:144:C:H2'	35:BA:145:G:H8	1.78	0.49
35:BA:587:C:C3'	47:BP:33:ARG:NH2	2.75	0.49
35:BA:972:G:OP2	35:BA:974:G:H5"	2.12	0.49
35:BA:999:U:O2'	35:BA:1000:A:H5'	2.13	0.49
35:BA:1188:U:H4'	53:BV:79:VAL:HG22	1.95	0.49
35:BA:1488:G:H2'	35:BA:1488:G:N3	2.28	0.49
35:BA:1888:G:H5'	35:BA:1888:G:N3	2.26	0.49
35:BA:2140:C:H2'	35:BA:2141:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:127:VAL:HA	38:BD:193:VAL:HG13	1.93	0.49
40:BF:8:GLN:CG	40:BF:126:VAL:HA	2.42	0.49
45:BN:123:TYR:OH	45:BN:130:HIS:CE1	2.66	0.49
47:BP:101:VAL:CB	47:BP:107:LYS:HA	2.35	0.49
47:BP:102:ARG:CB	47:BP:102:ARG:NH1	2.75	0.49
53:BV:41:GLY:HA3	53:BV:45:THR:OG1	2.13	0.49
54:BW:73:ALA:HB3	54:BW:106:ILE:CD1	2.41	0.49
56:BY:81:LYS:HD2	56:BY:96:ILE:CG2	2.42	0.49
1:CA:271:C:O2'	1:CA:272:C:H5'	2.13	0.49
1:CA:801:U:H2'	1:CA:802:A:H8	1.78	0.49
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.46	0.49
1:CA:1228:C:OP1	13:CM:115:LYS:HE3	2.13	0.49
1:CA:1358:U:OP1	14:CN:35:ARG:HG2	2.12	0.49
2:CB:27:LYS:HB2	2:CB:193:ASP:HB2	1.95	0.49
4:CD:159:ARG:HG3	4:CD:159:ARG:HH11	1.76	0.49
5:CE:19:MET:O	5:CE:20:GLN:HB2	2.13	0.49
5:CE:71:LEU:O	5:CE:72:GLN:CG	2.59	0.49
6:CF:33:TYR:N	6:CF:33:TYR:CD1	2.81	0.49
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.37	0.49
16:CP:43:LYS:HE3	16:CP:48:TRP:CE3	2.48	0.49
22:CV:5:C:C2	22:CV:6:C:C5	2.99	0.49
22:CV:70:G:C2	22:CV:71:G:C8	3.01	0.49
23:CW:14:A:H2'	23:CW:15:G:O4'	2.13	0.49
22:CY:32:G:C6	22:CY:43:G:C6	3.01	0.49
25:D0:73:GLY:C	25:D0:75:LEU:H	2.20	0.49
27:D2:42:GLY:O	27:D2:43:GLN:O	2.31	0.49
30:D5:20:ARG:HA	30:D5:23:HIS:CE1	2.48	0.49
33:D8:58:ILE:CG2	47:DP:49:ARG:CD	2.90	0.49
35:DA:259:G:H1'	35:DA:621:A:O2'	2.13	0.49
35:DA:412:A:N7	35:DA:2411:A:H2	2.10	0.49
35:DA:624:C:O2'	35:DA:657:U:H5"	2.13	0.49
35:DA:768:G:O2'	35:DA:769:G:H5'	2.11	0.49
35:DA:832:G:H5'	47:DP:45:LEU:HD11	1.93	0.49
35:DA:1018:C:O2'	35:DA:1019:U:H5'	2.13	0.49
35:DA:2415:G:O3'	47:DP:66:GLY:HA3	2.13	0.49
35:DA:2740:A:H2'	35:DA:2741:A:C8	2.48	0.49
37:DC:46:ALA:HA	37:DC:212:SER:O	2.12	0.49
39:DE:37:ARG:HD2	39:DE:42:ASP:CG	2.37	0.49
39:DE:120:TRP:CE3	39:DE:155:LYS:HD3	2.48	0.49
48:DQ:10:ARG:HB3	48:DQ:10:ARG:CZ	2.43	0.49
48:DQ:87:LYS:O	48:DQ:88:GLY:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:35:ILE:N	50:DS:53:SER:HB2	2.28	0.49
51:DT:13:ARG:NH1	51:DT:13:ARG:CA	2.69	0.49
51:DT:90:GLN:O	51:DT:91:ARG:C	2.55	0.49
54:DW:60:ASN:OD1	54:DW:61:ASN:ND2	2.44	0.49
1:AA:232:G:H1'	1:AA:262:A:N1	2.27	0.49
1:AA:339:C:OP2	46:BO:97:ARG:NH1	2.46	0.49
1:AA:865:A:H2	1:AA:918:A:H4'	1.78	0.49
1:AA:1056:U:OP1	3:AC:163:ALA:HB3	2.13	0.49
1:AA:1133:G:N2	1:AA:1143:G:H1'	2.28	0.49
1:AA:1358:U:OP1	14:AN:35:ARG:HG2	2.13	0.49
1:AA:1381:U:H5	1:AA:1382:C:C4	2.31	0.49
3:AC:24:ALA:HB2	3:AC:32:LEU:HD12	1.93	0.49
5:AE:8:GLU:HA	5:AE:33:VAL:O	2.13	0.49
5:AE:146:ALA:O	5:AE:147:ASP:C	2.54	0.49
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.27	0.49
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.13	0.49
17:AQ:63:ARG:O	17:AQ:64:PRO:C	2.56	0.49
23:AW:20:G:C6	23:AW:58:C:C4	3.00	0.49
23:AW:26:G:C5	23:AW:27:C:N4	2.81	0.49
28:B3:36:VAL:HG23	28:B3:36:VAL:O	2.12	0.49
33:B8:30:ARG:CZ	35:BA:2419:U:O4	2.60	0.49
35:BA:573:G:N1	35:BA:2031:A:OP2	2.36	0.49
35:BA:654(B):C:H2'	35:BA:654(C):G:C8	2.48	0.49
35:BA:657:U:H2'	35:BA:658:C:C6	2.48	0.49
35:BA:1547:C:H2'	35:BA:1548:C:C6	2.48	0.49
35:BA:2032:G:O2'	39:BE:145:LYS:NZ	2.45	0.49
35:BA:2524:G:H5'	35:BA:2524:G:C8	2.42	0.49
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.93	0.49
39:BE:1:MET:N	39:BE:1:MET:HE2	2.28	0.49
41:BG:32:PRO:HB2	41:BG:172:LEU:CD1	2.42	0.49
41:BG:109:VAL:C	41:BG:112:PRO:HD2	2.37	0.49
42:BH:41:MET:SD	42:BH:52:VAL:HG13	2.52	0.49
46:BO:119:PRO:HB2	51:BT:68:TYR:CE2	2.47	0.49
48:BQ:135:ASP:C	48:BQ:137:TYR:H	2.20	0.49
49:BR:53:HIS:HA	49:BR:56:LYS:HD3	1.95	0.49
50:BS:73:LEU:HD23	50:BS:73:LEU:O	2.12	0.49
53:BV:12:TYR:CE2	53:BV:22:VAL:HG12	2.46	0.49
1:CA:119:A:O2'	1:CA:120:A:OP2	2.25	0.49
1:CA:283:C:C2	1:CA:284:G:C8	3.00	0.49
1:CA:598:U:H2'	1:CA:599:C:C6	2.47	0.49
1:CA:948:C:H2'	1:CA:949:A:H8	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.12	0.49
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.13	0.49
1:CA:1381:U:H5	1:CA:1382:C:C4	2.30	0.49
2:CB:21:ARG:O	2:CB:23:ARG:N	2.45	0.49
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.95	0.49
3:CC:5:ILE:O	3:CC:5:ILE:HD13	2.12	0.49
3:CC:118:GLN:O	3:CC:122:GLU:HG3	2.13	0.49
3:CC:132:ARG:HG2	3:CC:136:GLN:NE2	2.27	0.49
5:CE:8:GLU:HA	5:CE:33:VAL:O	2.12	0.49
13:CM:3:ARG:HH21	41:DG:113:ARG:HB2	1.75	0.49
16:CP:28:ARG:HG2	16:CP:29:ASP:OD1	2.12	0.49
19:CS:33:THR:HG22	19:CS:50:ALA:O	2.13	0.49
23:CW:23:A:C2	23:CW:50:C:N3	2.81	0.49
22:CY:70:G:C5	22:CY:71:G:N7	2.81	0.49
30:D5:54:GLY:C	30:D5:55:ARG:HE	2.20	0.49
35:DA:833:U:H5"	47:DP:48:PRO:HB3	1.95	0.49
35:DA:870:A:C2	35:DA:908:C:N3	2.80	0.49
35:DA:1021:A:H8	35:DA:1022:G:H5"	1.77	0.49
35:DA:1179:C:H2'	35:DA:1180:C:C6	2.48	0.49
35:DA:1771:C:O2'	35:DA:1786:A:H8	1.94	0.49
35:DA:1885:A:H2'	35:DA:1886:C:O4'	2.13	0.49
35:DA:2360:A:O2'	35:DA:2361:A:P	2.71	0.49
35:DA:2611:U:H5'	35:DA:2611:U:H6	1.77	0.49
36:DB:91:C:OP1	48:DQ:16:ARG:HG2	2.11	0.49
42:DH:127:GLU:CG	42:DH:130:ARG:HE	2.26	0.49
43:DI:15:VAL:O	43:DI:17:GLN:N	2.46	0.49
47:DP:23:PRO:O	47:DP:33:ARG:NH1	2.45	0.49
47:DP:57:THR:HB	47:DP:59:LEU:N	2.26	0.49
50:DS:103:GLU:O	50:DS:104:GLY:C	2.55	0.49
51:DT:48:ILE:HD12	51:DT:48:ILE:N	2.27	0.49
52:DU:92:ARG:HB3	53:DV:11:GLN:NE2	2.27	0.49
55:DX:12:VAL:HG11	55:DX:27:THR:HG23	1.95	0.49
55:DX:47:PHE:O	55:DX:48:LYS:C	2.55	0.49
55:DX:47:PHE:O	55:DX:49:VAL:HG13	2.13	0.49
56:DY:57:GLN:HG2	56:DY:58:GLY:H	1.78	0.49
1:AA:10:A:OP2	5:AE:126:ARG:HB3	2.12	0.49
1:AA:17:U:H2'	1:AA:18:C:H6	1.78	0.49
1:AA:328:C:H4'	1:AA:329:A:C5'	2.43	0.49
1:AA:601:C:H2'	1:AA:602:A:C8	2.48	0.49
1:AA:777:A:H2'	1:AA:778:G:H8	1.78	0.49
1:AA:865:A:C2	1:AA:918:A:H4'	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1155:G:O2'	1:AA:1156:G:H5'	2.13	0.49
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.13	0.49
2:AB:112:VAL:C	2:AB:114:ARG:N	2.70	0.49
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.95	0.49
3:AC:58:GLU:O	3:AC:59:ARG:HG3	2.12	0.49
4:AD:24:GLU:HB2	4:AD:112:VAL:HG21	1.94	0.49
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.40	0.49
12:AL:45:PRO:HG2	12:AL:50:SER:C	2.38	0.49
12:AL:109:GLY:HA3	12:AL:121:GLY:O	2.12	0.49
13:AM:3:ARG:HB2	29:B4:34:GLU:CG	2.43	0.49
13:AM:28:ALA:C	13:AM:30:ALA:H	2.21	0.49
13:AM:93:ARG:HG2	35:BA:888:C:OP1	2.13	0.49
16:AP:4:ILE:HD12	16:AP:4:ILE:N	2.28	0.49
18:AR:36:ASN:HB2	18:AR:40:LEU:HD11	1.94	0.49
23:AW:38:U:C2	23:AW:39:A:N7	2.81	0.49
23:AW:77:C:O5'	23:AW:77:C:H6	1.96	0.49
22:AY:70:G:C2	22:AY:71:G:C4	3.00	0.49
25:B0:6:GLY:O	25:B0:7:LEU:HD23	2.12	0.49
35:BA:78:A:H2'	35:BA:79:G:C8	2.47	0.49
35:BA:654(D):G:O6	35:BA:654(R):C:H1'	2.12	0.49
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.36	0.49
35:BA:1755:A:H2'	35:BA:1756:G:H5'	1.94	0.49
35:BA:2128:C:H2'	35:BA:2129:C:O4'	2.12	0.49
35:BA:2736:G:O2'	35:BA:2737:G:H5'	2.12	0.49
35:BA:2884:U:H2'	35:BA:2885:C:O4'	2.13	0.49
37:BC:48:LEU:HB3	37:BC:50:ILE:HG13	1.95	0.49
39:BE:34:VAL:O	39:BE:34:VAL:HG22	2.13	0.49
41:BG:7:LEU:O	41:BG:8:LYS:C	2.56	0.49
41:BG:128:ARG:O	41:BG:129:GLY:O	2.30	0.49
45:BN:48:MET:HE3	45:BN:48:MET:C	2.38	0.49
46:BO:64:ARG:CZ	51:BT:70:VAL:HG21	2.43	0.49
47:BP:96:THR:O	47:BP:100:LEU:HD23	2.13	0.49
47:BP:101:VAL:HB	47:BP:107:LYS:CA	2.33	0.49
47:BP:112:LEU:H	47:BP:128:HIS:CD2	2.29	0.49
50:BS:30:ARG:HH11	50:BS:35:ILE:HB	1.77	0.49
50:BS:83:LYS:HE3	50:BS:105:ALA:CB	2.42	0.49
56:BY:90:LEU:HG	56:BY:91:GLU:N	2.27	0.49
1:CA:499:A:H4'	1:CA:500:G:OP1	2.12	0.49
1:CA:738:C:H2'	1:CA:739:C:C6	2.47	0.49
1:CA:1133:G:N2	1:CA:1143:G:H1'	2.27	0.49
1:CA:1262:C:H42	1:CA:1273:G:H1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:37:ASN:OD1	2:CB:37:ASN:O	2.30	0.49
8:CH:54:ASP:C	8:CH:56:LYS:N	2.69	0.49
8:CH:77:GLU:HG2	8:CH:78:GLN:N	2.27	0.49
9:CI:100:GLY:C	9:CI:102:LEU:N	2.71	0.49
12:CL:21:LYS:O	12:CL:23:LYS:N	2.45	0.49
12:CL:64:TYR:N	12:CL:64:TYR:HD1	2.10	0.49
16:CP:80:PHE:N	16:CP:80:PHE:CD1	2.80	0.49
21:CU:12:LYS:CB	21:CU:22:ARG:HD2	2.38	0.49
22:CY:57:U:C5	57:DZ:181:GLU:C	2.91	0.49
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	1.95	0.49
26:D1:64:ALA:HA	26:D1:67:ILE:CD1	2.43	0.49
31:D6:5:VAL:CG1	31:D6:7:ILE:HG22	2.43	0.49
31:D6:30:THR:OG1	31:D6:31:PRO:HD2	2.12	0.49
35:DA:309:G:N3	35:DA:329:G:O2'	2.45	0.49
35:DA:548:A:H2'	35:DA:548:A:N3	2.27	0.49
35:DA:643:A:O2'	35:DA:644:A:H5'	2.12	0.49
35:DA:1049:C:N4	35:DA:1111:A:C2	2.81	0.49
35:DA:1332:G:N2	35:DA:1609:A:O2'	2.46	0.49
35:DA:1902:C:H5'	38:DD:246:PRO:HD3	1.95	0.49
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.95	0.49
38:DD:129:ASN:O	38:DD:193:VAL:HG12	2.13	0.49
39:DE:77:ILE:CG2	39:DE:78:LEU:N	2.68	0.49
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	2.12	0.49
41:DG:35:GLU:HB3	41:DG:160:VAL:CG1	2.42	0.49
43:DI:92:VAL:HG12	43:DI:92:VAL:O	2.12	0.49
47:DP:33:ARG:HG3	47:DP:34:GLY:N	2.27	0.49
48:DQ:133:ARG:HG3	48:DQ:133:ARG:NH1	2.28	0.49
50:DS:83:LYS:HE3	50:DS:105:ALA:CB	2.43	0.49
52:DU:76:TYR:CZ	52:DU:80:ILE:HG13	2.47	0.49
52:DU:92:ARG:NH2	53:DV:10:LYS:CG	2.71	0.49
52:DU:101:ARG:HH11	52:DU:101:ARG:HB2	1.78	0.49
57:DZ:108:PRO:HG3	57:DZ:117:LEU:HD13	1.95	0.49
1:AA:545:C:O2'	1:AA:546:G:H5'	2.12	0.49
1:AA:1170:A:H2'	1:AA:1171:G:H5'	1.95	0.49
1:AA:1201:A:H1'	1:AA:1202:G:OP2	2.13	0.49
3:AC:119:ARG:HE	3:AC:140:ARG:HH21	1.60	0.49
4:AD:128:VAL:CG1	4:AD:129:ASN:N	2.73	0.49
5:AE:20:GLN:O	5:AE:21:ALA:C	2.55	0.49
6:AF:40:VAL:O	6:AF:40:VAL:HG13	2.13	0.49
8:AH:25:ASP:HA	8:AH:59:LEU:O	2.13	0.49
9:AI:85:LEU:HD12	9:AI:86:VAL:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:114:VAL:O	11:AK:114:VAL:HG13	2.12	0.49
11:AK:126:ARG:C	11:AK:128:ALA:N	2.66	0.49
12:AL:25:PRO:C	12:AL:27:LEU:N	2.70	0.49
12:AL:41:ARG:O	12:AL:55:VAL:HG22	2.13	0.49
19:AS:6:LYS:HE3	19:AS:6:LYS:N	2.28	0.49
22:AV:64:C:H2'	22:AV:65:G:C8	2.48	0.49
23:AW:11:C:C4	23:AW:12:U:C4	3.01	0.49
23:AW:54:G:H2'	23:AW:54:G:N3	2.28	0.49
33:B8:60:LEU:O	33:B8:63:PRO:HG2	2.13	0.49
35:BA:654(Q):C:O2'	35:BA:654(R):C:H5'	2.13	0.49
35:BA:1131:G:O6	35:BA:2040:C:H1'	2.13	0.49
35:BA:1440:G:O2'	35:BA:1441:G:H5'	2.12	0.49
35:BA:1747:G:H2'	35:BA:1747(A):G:H8	1.78	0.49
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.28	0.49
36:BB:80:U:O2'	36:BB:81:G:H5"	2.12	0.49
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.77	0.49
42:BH:29:PRO:HD2	42:BH:79:VAL:O	2.12	0.49
43:BI:119:PRO:O	43:BI:121:LYS:N	2.46	0.49
44:BJ:79:UNK:O	44:BJ:80:UNK:CB	2.61	0.49
47:BP:7:ARG:H	47:BP:8:PRO:HD2	1.78	0.49
47:BP:71:VAL:O	47:BP:73:GLY:N	2.46	0.49
47:BP:99:LEU:HD23	47:BP:99:LEU:C	2.38	0.49
50:BS:35:ILE:O	50:BS:53:SER:HB2	2.13	0.49
51:BT:57:PHE:O	51:BT:59:THR:CG2	2.61	0.49
52:BU:57:PHE:C	52:BU:59:ARG:N	2.68	0.49
57:BZ:5:LEU:O	57:BZ:59:LEU:HA	2.13	0.49
57:BZ:77:ASP:O	57:BZ:78:LYS:C	2.55	0.49
57:BZ:144:LEU:N	57:BZ:144:LEU:HD22	2.27	0.49
1:CA:59:A:C5'	1:CA:60:A:H5"	2.43	0.49
1:CA:253:U:H2'	1:CA:254:G:C8	2.48	0.49
1:CA:606:G:N2	1:CA:631:G:H2'	2.28	0.49
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.43	0.49
1:CA:1184:G:O2'	1:CA:1185:G:H5'	2.12	0.49
1:CA:1256:A:H5'	1:CA:1257:U:OP1	2.13	0.49
3:CC:74:GLY:O	3:CC:76:VAL:N	2.46	0.49
3:CC:88:ARG:HA	3:CC:91:LEU:CD1	2.43	0.49
3:CC:106:VAL:HG12	3:CC:108:ASN:H	1.78	0.49
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.80	0.49
4:CD:170:VAL:HG12	4:CD:174:LEU:HB2	1.93	0.49
6:CF:6:VAL:C	6:CF:7:ASN:HD22	2.21	0.49
8:CH:97:VAL:C	8:CH:99:GLU:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:4:ILE:HD13	10:CJ:74:ILE:HD11	1.94	0.49
10:CJ:12:ASP:OD2	10:CJ:15:THR:HG23	2.12	0.49
10:CJ:42:THR:HA	10:CJ:68:HIS:HA	1.94	0.49
11:CK:126:ARG:C	11:CK:128:ALA:N	2.67	0.49
13:CM:28:ALA:C	13:CM:30:ALA:H	2.21	0.49
15:CO:63:ARG:O	15:CO:67:LEU:HG	2.12	0.49
16:CP:28:ARG:HG2	16:CP:28:ARG:HH11	1.76	0.49
17:CQ:3:LYS:HD3	17:CQ:61:GLU:O	2.12	0.49
25:D0:25:ARG:HD2	25:D0:29:GLN:NE2	2.28	0.49
26:D1:45:ASN:CB	35:DA:2230:G:H1'	2.43	0.49
29:D4:1:MET:N	36:DB:44:G:P	2.86	0.49
35:DA:373:U:H2'	35:DA:374:A:H8	1.78	0.49
35:DA:654(B):C:H2'	35:DA:654(C):G:C8	2.48	0.49
35:DA:840:C:H2'	35:DA:841:A:H8	1.77	0.49
35:DA:1005:C:H2'	35:DA:1006:C:C6	2.48	0.49
35:DA:1190:G:H5'	47:DP:35:HIS:N	2.23	0.49
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.12	0.49
35:DA:1652:A:OP1	49:DR:9:LYS:HD3	2.13	0.49
35:DA:2591:C:P	38:DD:239:ARG:HB3	2.53	0.49
37:DC:52:PRO:CG	37:DC:53:ARG:HH11	2.26	0.49
38:DD:108:PRO:CG	38:DD:111:LEU:HD23	2.43	0.49
39:DE:52:LEU:N	39:DE:74:PRO:HB3	2.28	0.49
39:DE:101:ARG:HH11	39:DE:171:GLU:CB	2.17	0.49
40:DF:8:GLN:HG2	40:DF:126:VAL:CB	2.43	0.49
41:DG:140:ILE:HD12	41:DG:140:ILE:C	2.37	0.49
42:DH:158:HIS:CD2	42:DH:170:ARG:HA	2.47	0.49
47:DP:59:LEU:O	47:DP:59:LEU:HD23	2.12	0.49
56:DY:90:LEU:HG	56:DY:91:GLU:N	2.27	0.49
1:AA:1023:G:H2'	1:AA:1024:G:H5'	1.94	0.48
1:AA:1028:C:H2'	1:AA:1029:C:H5'	1.96	0.48
2:AB:169:LYS:HB3	2:AB:170:GLU:OE2	2.13	0.48
3:AC:77:ILE:O	3:AC:83:ARG:HB3	2.12	0.48
3:AC:156:ARG:NH2	3:AC:159:GLY:O	2.43	0.48
4:AD:61:LYS:NZ	4:AD:62:GLN:HE21	2.11	0.48
4:AD:110:PHE:CD1	4:AD:110:PHE:N	2.67	0.48
7:AG:79:ARG:HG2	7:AG:81:GLY:N	2.21	0.48
17:AQ:3:LYS:HD3	17:AQ:61:GLU:O	2.12	0.48
22:AV:12:U:C2	22:AV:13:U:C6	3.01	0.48
23:AW:43:G:C6	23:AW:44:A:C5	3.01	0.48
23:AW:45:U:H2'	23:AW:46:U:O4'	2.12	0.48
22:AY:11:C:H2'	22:AY:12:U:C5	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:25:A:C6	22:AY:26:G:C6	3.01	0.48
27:B2:63:VAL:C	27:B2:65:ASN:N	2.70	0.48
35:BA:27:G:N2	35:BA:512:G:C2'	2.76	0.48
35:BA:644:A:C2	35:BA:2369:A:H1'	2.48	0.48
35:BA:993:G:OP1	52:BU:50:ARG:NH1	2.46	0.48
35:BA:1009:A:C4'	52:BU:59:ARG:HD3	2.43	0.48
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.12	0.48
35:BA:1579:A:H2'	35:BA:1580:A:O4'	2.13	0.48
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.48	0.48
35:BA:2619:C:O2'	35:BA:2620:C:H5'	2.13	0.48
35:BA:2728:U:O2'	35:BA:2729:G:H5'	2.13	0.48
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.77	0.48
39:BE:52:LEU:N	39:BE:74:PRO:HB3	2.28	0.48
39:BE:104:VAL:HG11	39:BE:188:VAL:CG2	2.43	0.48
41:BG:38:VAL:HG22	41:BG:93:THR:HG23	1.93	0.48
41:BG:146:TYR:C	41:BG:148:MET:N	2.71	0.48
42:BH:41:MET:CE	42:BH:53:GLU:H	2.25	0.48
46:BO:77:ILE:HD11	51:BT:72:VAL:CG1	2.42	0.48
47:BP:100:LEU:N	47:BP:100:LEU:HD22	2.28	0.48
50:BS:35:ILE:N	50:BS:53:SER:HB2	2.27	0.48
51:BT:36:GLU:HG2	51:BT:36:GLU:O	2.12	0.48
54:BW:34:ASN:O	54:BW:35:ILE:C	2.56	0.48
56:BY:28:LYS:CA	56:BY:38:ILE:HG22	2.32	0.48
1:CA:334:C:O2'	1:CA:335:C:H5'	2.12	0.48
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.48	0.48
1:CA:1081:G:H2'	1:CA:1082:G:H8	1.78	0.48
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.13	0.48
9:CI:18:PHE:HD2	9:CI:62:TYR:HD2	1.61	0.48
9:CI:33:PHE:CE1	9:CI:37:PHE:CD2	3.01	0.48
11:CK:21:ILE:HD13	11:CK:82:VAL:HG13	1.95	0.48
13:CM:10:PRO:O	13:CM:45:VAL:HG11	2.13	0.48
13:CM:114:ARG:C	13:CM:115:LYS:HD3	2.36	0.48
23:CW:70:G:C5	23:CW:71:G:C6	3.01	0.48
22:CY:4:C:C4	22:CY:72:C:H5	2.31	0.48
22:CY:11:C:H2'	22:CY:12:U:C5	2.45	0.48
22:CY:25:A:H2'	22:CY:26:G:N7	2.24	0.48
28:D3:7:LYS:CB	28:D3:34:GLU:HG2	2.43	0.48
35:DA:491:G:H2'	35:DA:492:A:C8	2.48	0.48
35:DA:523:C:O2'	35:DA:524:U:H5'	2.13	0.48
35:DA:911:A:H2'	48:DQ:9:TYR:OH	2.13	0.48
35:DA:1486:A:N1	35:DA:1504:C:N3	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1721:G:H5'	35:DA:1722:A:OP2	2.13	0.48
35:DA:2801(A):A:C4'	35:DA:2802:G:H2'	2.43	0.48
35:DA:2892:A:H62	35:DA:2893:G:N2	2.10	0.48
38:DD:210:GLY:C	38:DD:212:SER:N	2.70	0.48
40:DF:83:PHE:O	40:DF:84:VAL:CB	2.56	0.48
40:DF:181:LEU:HD11	40:DF:186:ILE:HD11	1.95	0.48
43:DI:83:ALA:HB2	43:DI:88:ILE:HG12	1.95	0.48
45:DN:57:ALA:C	45:DN:58:ASP:OD1	2.56	0.48
45:DN:93:THR:O	45:DN:94:HIS:CB	2.61	0.48
47:DP:96:THR:O	47:DP:100:LEU:HD23	2.13	0.48
48:DQ:59:ARG:HG3	48:DQ:59:ARG:O	2.13	0.48
51:DT:28:VAL:HG12	51:DT:29:ARG:HH11	1.77	0.48
51:DT:70:VAL:HG12	51:DT:71:GLY:H	1.75	0.48
52:DU:17:ILE:HG23	52:DU:39:LEU:HD12	1.95	0.48
56:DY:97:ARG:C	56:DY:99:CYS:H	2.21	0.48
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.28	0.48
1:AA:81:U:H3	1:AA:88:A:N6	1.96	0.48
1:AA:301:G:H2'	1:AA:302:G:C8	2.46	0.48
1:AA:586:C:O2'	1:AA:587:G:H5'	2.13	0.48
1:AA:857:C:H2'	1:AA:858:G:O4'	2.13	0.48
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.47	0.48
1:AA:1353:G:O2'	1:AA:1354:C:H5'	2.12	0.48
1:AA:1441:G:H5"	1:AA:1442:G:O4'	2.13	0.48
2:AB:137:ARG:HD3	2:AB:138:LEU:N	2.28	0.48
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.11	0.48
7:AG:80:VAL:HG12	7:AG:80:VAL:O	2.14	0.48
7:AG:113:GLU:HB3	7:AG:118:VAL:CG2	2.44	0.48
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.48	0.48
9:AI:63:ILE:CG2	9:AI:64:THR:N	2.76	0.48
9:AI:111:ARG:O	9:AI:113:LYS:HD2	2.13	0.48
10:AJ:4:ILE:HD13	10:AJ:74:ILE:HD11	1.94	0.48
12:AL:35:GLY:HA3	12:AL:58:VAL:CG1	2.33	0.48
16:AP:80:PHE:N	16:AP:80:PHE:CD1	2.81	0.48
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.56	0.48
22:AV:69:G:H2'	22:AV:70:G:C8	2.48	0.48
22:AY:67:C:C6	22:AY:67:C:C3'	2.96	0.48
30:B5:48:GLU:O	30:B5:49:CYS:CB	2.58	0.48
35:BA:528:A:C2	35:BA:2042:A:H2'	2.48	0.48
35:BA:863:A:O2'	35:BA:864:G:H5'	2.13	0.48
35:BA:1652:A:O3'	35:BA:1653:G:C8	2.66	0.48
35:BA:2138:C:H2'	35:BA:2139:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2884:U:H2'	35:BA:2885:C:H5'	1.94	0.48
38:BD:8:PRO:C	38:BD:10:THR:H	2.21	0.48
39:BE:10:GLY:HA3	51:BT:8:LYS:HZ3	1.79	0.48
39:BE:34:VAL:HG12	39:BE:49:LEU:HA	1.94	0.48
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.48	0.48
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.28	0.48
42:BH:136:ILE:N	42:BH:136:ILE:CD1	2.72	0.48
47:BP:140:ALA:O	47:BP:141:ALA:HB3	2.13	0.48
48:BQ:36:ALA:HB1	48:BQ:127:ILE:CD1	2.44	0.48
52:BU:17:ILE:HG23	52:BU:39:LEU:HD12	1.95	0.48
54:BW:20:VAL:HG23	54:BW:21:VAL:N	2.27	0.48
54:BW:64:MET:HE2	54:BW:109:GLU:HG3	1.94	0.48
1:CA:59:A:H2'	1:CA:59:A:N3	2.26	0.48
1:CA:151:A:O2'	1:CA:152:A:H5'	2.13	0.48
1:CA:320:C:H2'	1:CA:321:A:C8	2.48	0.48
1:CA:627:G:O2'	1:CA:628:G:H5'	2.13	0.48
1:CA:955:U:H1'	1:CA:1227:A:N6	2.28	0.48
1:CA:1037:C:H2'	1:CA:1038:C:C6	2.47	0.48
1:CA:1278:U:H4'	1:CA:1279:A:C8	2.48	0.48
2:CB:61:LEU:HD21	2:CB:161:ALA:HB2	1.94	0.48
3:CC:77:ILE:O	3:CC:83:ARG:HB3	2.13	0.48
4:CD:170:VAL:O	4:CD:171:GLY:C	2.54	0.48
4:CD:175:SER:OG	4:CD:186:LEU:HD21	2.13	0.48
7:CG:64:GLN:HG3	7:CG:68:ASN:HD21	1.78	0.48
7:CG:137:LYS:O	7:CG:141:VAL:HG23	2.14	0.48
8:CH:4:ASP:CG	8:CH:85:ARG:HH21	2.21	0.48
8:CH:111:ILE:C	8:CH:112:LEU:HD23	2.38	0.48
9:CI:99:LEU:O	9:CI:101:PHE:N	2.46	0.48
12:CL:24:VAL:CG1	12:CL:26:ALA:HB2	2.43	0.48
19:CS:73:GLU:O	19:CS:73:GLU:HG2	2.14	0.48
20:CT:38:LYS:HA	20:CT:41:ILE:CD1	2.42	0.48
20:CT:82:SER:O	20:CT:86:ARG:CB	2.60	0.48
28:D3:7:LYS:HD2	28:D3:34:GLU:OE2	2.12	0.48
29:D4:33:VAL:HG12	29:D4:34:GLU:N	2.28	0.48
35:DA:1039:G:H2'	35:DA:1040:C:C6	2.48	0.48
35:DA:1354:A:H2'	35:DA:1355:G:O4'	2.13	0.48
35:DA:1748:G:H5'	35:DA:1748:G:C8	2.43	0.48
35:DA:2020:A:O2'	35:DA:2021:C:H5'	2.12	0.48
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.77	0.48
35:DA:2692:C:O2'	35:DA:2693:A:H5'	2.14	0.48
37:DC:48:LEU:HB3	37:DC:50:ILE:HG13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.78	0.48
41:DG:68:PRO:CA	41:DG:92:VAL:HB	2.39	0.48
41:DG:110:ALA:O	41:DG:111:LEU:C	2.56	0.48
41:DG:150:ASP:CG	41:DG:151:ALA:H	2.21	0.48
42:DH:41:MET:SD	42:DH:53:GLU:O	2.71	0.48
43:DI:92:VAL:CG1	43:DI:120:ILE:HD13	2.34	0.48
43:DI:124:GLY:H	43:DI:142:VAL:HG11	1.78	0.48
50:DS:36:TYR:HA	50:DS:52:SER:HA	1.94	0.48
51:DT:28:VAL:CG1	51:DT:29:ARG:HH11	2.26	0.48
56:DY:81:LYS:HD2	56:DY:96:ILE:CG2	2.43	0.48
1:AA:173:U:H5"	1:AA:197:A:O4'	2.13	0.48
1:AA:474:G:C2'	1:AA:475:G:H8	2.26	0.48
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.78	0.48
4:AD:33:MET:C	4:AD:35:ARG:H	2.20	0.48
5:AE:33:VAL:HG21	5:AE:109:ILE:HG12	1.96	0.48
11:AK:15:ALA:HB1	11:AK:78:GLN:HE21	1.78	0.48
12:AL:42:THR:HA	12:AL:54:LYS:HA	1.95	0.48
13:AM:2:ALA:CB	13:AM:9:ILE:HG23	2.38	0.48
15:AO:7:GLU:O	15:AO:10:LYS:HB3	2.13	0.48
19:AS:36:ARG:HH11	19:AS:53:ASN:HA	1.77	0.48
22:AV:12:U:N3	22:AV:26:G:N2	2.61	0.48
22:AY:52:C:C2	22:AY:53:U:C5	3.01	0.48
26:B1:66:HIS:O	26:B1:67:ILE:C	2.55	0.48
30:B5:41:PRO:HG2	30:B5:44:THR:OG1	2.13	0.48
33:B8:34:TRP:CD2	33:B8:35:GLN:N	2.82	0.48
35:BA:297:C:H2'	35:BA:298:G:O4'	2.14	0.48
35:BA:665:C:H2'	35:BA:666:G:C8	2.48	0.48
35:BA:1362:C:C2'	35:BA:1363:C:H5'	2.44	0.48
35:BA:1403:C:H5"	35:BA:1471:A:C1'	2.43	0.48
35:BA:2261:C:O2'	35:BA:2262:U:H5'	2.13	0.48
36:BB:94:C:O2'	36:BB:95:C:H5'	2.13	0.48
41:BG:72:ARG:HB3	41:BG:86:MET:H	1.78	0.48
47:BP:39:LYS:HD3	47:BP:39:LYS:HA	1.55	0.48
49:BR:12:ARG:HG3	49:BR:12:ARG:HH11	1.77	0.48
49:BR:37:THR:HA	49:BR:111:LEU:HD23	1.95	0.48
51:BT:70:VAL:CG1	51:BT:71:GLY:H	2.27	0.48
52:BU:92:ARG:HB3	53:BV:11:GLN:NE2	2.28	0.48
53:BV:38:LEU:HD22	53:BV:52:VAL:HG11	1.94	0.48
56:BY:29:GLU:OE2	56:BY:38:ILE:HG21	2.13	0.48
56:BY:88:LYS:O	56:BY:90:LEU:HD23	2.13	0.48
57:BZ:13:GLU:OE1	57:BZ:13:GLU:N	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:69:THR:HA	57:BZ:89:PHE:O	2.13	0.48
1:CA:148:G:O2'	1:CA:149:A:H5'	2.13	0.48
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.13	0.48
1:CA:766:A:H2'	1:CA:767:A:O4'	2.13	0.48
1:CA:794:A:H4'	1:CA:1521:G:O2'	2.12	0.48
1:CA:1201:A:H1'	1:CA:1202:G:OP2	2.13	0.48
1:CA:1242:C:H42	1:CA:1295:G:H1	1.61	0.48
1:CA:1436:U:H2'	1:CA:1437:C:H6	1.78	0.48
3:CC:162:GLN:OE1	24:CX:24:A:O4'	2.32	0.48
5:CE:7:GLU:HB2	5:CE:35:GLY:O	2.13	0.48
5:CE:105:VAL:HB	5:CE:106:PRO:HD3	1.95	0.48
11:CK:102:GLY:O	11:CK:103:LEU:HD22	2.12	0.48
12:CL:47:LYS:HE2	12:CL:48:PRO:CB	2.41	0.48
19:CS:6:LYS:H	19:CS:6:LYS:CE	2.26	0.48
23:CW:71:G:C8	23:CW:71:G:H3'	2.47	0.48
22:CY:17:C:H5"	22:CY:18:U:H6	1.74	0.48
22:CY:17:C:OP1	57:DZ:186:GLU:HG3	2.13	0.48
22:CY:71:G:C6	22:CY:72:C:C4	3.01	0.48
26:D1:89:GLU:O	26:D1:93:GLU:HG2	2.13	0.48
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.47	0.48
30:D5:35:GLU:O	30:D5:36:CYS:CB	2.61	0.48
33:D8:33:ASN:N	33:D8:36:LYS:HD2	2.29	0.48
35:DA:74:A:H4'	35:DA:75:G:O4'	2.13	0.48
35:DA:997:G:OP1	52:DU:93:LYS:HD3	2.12	0.48
35:DA:1155:A:OP2	52:DU:58:ARG:NH1	2.46	0.48
35:DA:1161:C:H4'	53:DV:8:GLY:HA2	1.95	0.48
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.14	0.48
35:DA:1484:G:H21	35:DA:1505:C:N4	2.10	0.48
35:DA:1747:G:H2'	35:DA:1747(A):G:H8	1.78	0.48
35:DA:1756:G:H4'	35:DA:1758:G:O4'	2.13	0.48
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.12	0.48
36:DB:11:C:OP2	36:DB:12:C:H5	1.96	0.48
37:DC:4:HIS:ND1	37:DC:8:TYR:CE2	2.81	0.48
38:DD:4:LYS:HE3	38:DD:20:ASP:HA	1.95	0.48
39:DE:52:LEU:HD22	39:DE:76:ARG:HD3	1.94	0.48
43:DI:88:ILE:CG2	43:DI:89:TYR:H	2.24	0.48
43:DI:123:LEU:HD11	43:DI:144:VAL:HG21	1.95	0.48
45:DN:28:THR:HG22	45:DN:29:LYS:N	2.27	0.48
45:DN:68:GLU:HG2	45:DN:88:GLU:OE2	2.13	0.48
46:DO:69:ILE:HD13	46:DO:77:ILE:HG23	1.95	0.48
48:DQ:133:ARG:O	48:DQ:134:ARG:HG2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:104:ARG:HD2	49:DR:109:ALA:HB3	1.95	0.48
50:DS:46:VAL:HG12	50:DS:47:THR:N	2.29	0.48
50:DS:59:LYS:HG2	50:DS:60:GLY:N	2.28	0.48
52:DU:5:LYS:O	52:DU:6:THR:C	2.55	0.48
56:DY:29:GLU:OE2	56:DY:38:ILE:HG21	2.13	0.48
1:AA:189(D):C:H1'	1:AA:189(H):G:C2	2.48	0.48
1:AA:189(I):G:H2'	1:AA:189(J):G:C8	2.47	0.48
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.13	0.48
1:AA:511:C:H1'	4:AD:43:HIS:NE2	2.28	0.48
1:AA:532:A:H2	1:AA:1207:G:C1'	2.26	0.48
1:AA:668:G:O2'	15:AO:46:HIS:HD2	1.96	0.48
1:AA:692:U:H5	11:AK:26:ASN:HD22	1.61	0.48
2:AB:54:THR:HG22	2:AB:58:ILE:CD1	2.43	0.48
3:AC:20:SER:CB	3:AC:40:ARG:HH22	2.24	0.48
3:AC:57:ILE:CG2	3:AC:58:GLU:N	2.76	0.48
6:AF:23:LYS:O	6:AF:27:GLN:HG2	2.13	0.48
6:AF:84:ASN:O	6:AF:86:ARG:HG3	2.13	0.48
13:AM:79:LYS:HG2	13:AM:82:MET:HE3	1.94	0.48
17:AQ:63:ARG:HG2	17:AQ:64:PRO:CD	2.43	0.48
22:AV:3:G:H2'	22:AV:4:C:H5"	1.96	0.48
22:AV:52:C:C2	22:AV:53:U:C5	3.02	0.48
22:AV:58:C:O2'	22:AV:59:G:H5'	2.13	0.48
23:AW:70:G:C8	23:AW:71:G:N7	2.80	0.48
22:AY:29:A:C6	22:AY:30:U:C4	3.01	0.48
22:AY:29:A:H2'	22:AY:30:U:O4'	2.14	0.48
26:B1:19:GLN:CB	26:B1:35:THR:CG2	2.92	0.48
27:B2:2:LYS:CB	35:BA:97:C:H5"	2.44	0.48
30:B5:52:TYR:O	30:B5:53:ALA:HB2	2.13	0.48
33:B8:56:GLU:C	33:B8:58:ILE:H	2.21	0.48
35:BA:221:A:O2'	35:BA:222:A:OP2	2.29	0.48
35:BA:510:C:O2'	35:BA:511:U:H5'	2.13	0.48
35:BA:654(L):G:H2'	35:BA:654(M):C:H4'	1.96	0.48
35:BA:1179:C:H2'	35:BA:1180:C:C6	2.48	0.48
35:BA:1493:C:H4'	35:BA:1494:A:OP1	2.13	0.48
35:BA:1838:C:N4	35:BA:1898:U:H2'	2.29	0.48
37:BC:11:LEU:HD13	37:BC:33:LEU:O	2.13	0.48
40:BF:160:ASN:C	40:BF:160:ASN:ND2	2.71	0.48
49:BR:103:ARG:HD2	54:BW:40:ASN:ND2	2.28	0.48
1:CA:224:C:H2'	1:CA:225:C:C6	2.49	0.48
1:CA:853:G:H2'	1:CA:854:G:H8	1.78	0.48
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1492:A:O2'	1:CA:1493:A:P	2.71	0.48
2:CB:80:ILE:HD11	2:CB:208:ILE:CG2	2.31	0.48
3:CC:6:HIS:CD2	3:CC:7:PRO:HD2	2.47	0.48
3:CC:55:VAL:O	3:CC:57:ILE:HG13	2.13	0.48
8:CH:103:VAL:HG21	8:CH:110:ALA:CB	2.31	0.48
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.13	0.48
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	1.95	0.48
12:CL:54:LYS:CB	12:CL:70:ILE:HD12	2.30	0.48
12:CL:58:VAL:C	12:CL:65:GLU:HG3	2.37	0.48
15:CO:23:GLY:O	15:CO:27:VAL:HB	2.13	0.48
20:CT:72:LEU:O	20:CT:73:HIS:HB2	2.13	0.48
22:CV:76:C:C2'	22:CV:77:C:H5"	2.44	0.48
23:CW:44:A:C2'	23:CW:45:U:H5"	2.42	0.48
22:CY:9:A:C5	22:CY:47:G:C6	3.01	0.48
22:CY:20:G:N2	22:CY:58:C:C2	2.82	0.48
22:CY:57:U:O2	22:CY:59:G:C4	2.66	0.48
26:D1:94:LEU:O	26:D1:96:LYS:N	2.46	0.48
28:D3:40:THR:CG2	28:D3:43:ILE:HG12	2.43	0.48
35:DA:53:A:H2'	35:DA:54:G:O4'	2.12	0.48
35:DA:402:A:C2'	35:DA:403:U:H5'	2.44	0.48
35:DA:848:G:H8	35:DA:848:G:H5'	1.79	0.48
35:DA:1131:G:O6	35:DA:2040:C:H1'	2.13	0.48
35:DA:1838:C:N4	35:DA:1898:U:H2'	2.28	0.48
35:DA:2134:A:C2	35:DA:2159:G:H1'	2.48	0.48
38:DD:231:HIS:ND1	38:DD:232:PRO:CD	2.76	0.48
47:DP:112:LEU:H	47:DP:128:HIS:CD2	2.32	0.48
48:DQ:110:THR:C	48:DQ:112:GLU:N	2.68	0.48
49:DR:12:ARG:HG3	49:DR:12:ARG:HH11	1.79	0.48
49:DR:28:LEU:HD13	49:DR:28:LEU:C	2.38	0.48
1:AA:30:U:H4'	1:AA:31:G:OP1	2.13	0.48
1:AA:598:U:H2'	1:AA:599:C:C6	2.48	0.48
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.44	0.48
1:AA:1123:A:O2'	10:AJ:38:ILE:HG22	2.13	0.48
1:AA:1240:U:H4'	7:AG:38:LEU:HD21	1.96	0.48
1:AA:1371:G:OP2	9:AI:11:LYS:HG2	2.14	0.48
1:AA:1432:G:OP2	51:BT:108:ARG:HD3	2.14	0.48
4:AD:67:ILE:HG21	4:AD:196:LEU:HD23	1.96	0.48
6:AF:7:ASN:O	6:AF:8:ILE:HG13	2.13	0.48
7:AG:23:VAL:HG12	7:AG:23:VAL:O	2.13	0.48
7:AG:120:ILE:H	7:AG:120:ILE:CD1	2.19	0.48
20:AT:72:LEU:O	20:AT:73:HIS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:3:G:C6	22:AV:4:C:N4	2.82	0.48
23:AW:20:G:C4	23:AW:59:G:N3	2.82	0.48
23:AW:44:A:C2'	23:AW:45:U:H5"	2.43	0.48
22:AY:70:G:C2'	22:AY:71:G:O4'	2.61	0.48
26:B1:64:ALA:HA	26:B1:67:ILE:HG13	1.94	0.48
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.48	0.48
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.49	0.48
35:BA:191:A:O2'	35:BA:192:C:H5'	2.13	0.48
35:BA:840:C:H2'	35:BA:841:A:H8	1.78	0.48
37:BC:4:HIS:ND1	37:BC:8:TYR:CE2	2.82	0.48
39:BE:51:PHE:HE1	39:BE:52:LEU:HD13	1.78	0.48
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.39	0.48
39:BE:201:THR:OG1	39:BE:202:LYS:N	2.45	0.48
40:BF:8:GLN:HG2	40:BF:126:VAL:CB	2.44	0.48
40:BF:63:LYS:HZ1	40:BF:67:GLN:HB2	1.78	0.48
40:BF:63:LYS:HZ2	40:BF:67:GLN:HB2	1.78	0.48
43:BI:38:LEU:CB	43:BI:40:THR:HG23	2.43	0.48
43:BI:132:PRO:C	43:BI:133:HIS:ND1	2.72	0.48
45:BN:93:THR:O	45:BN:94:HIS:CB	2.61	0.48
48:BQ:133:ARG:HH11	48:BQ:133:ARG:HG3	1.78	0.48
50:BS:20:ARG:NE	50:BS:20:ARG:CA	2.76	0.48
50:BS:68:GLN:C	50:BS:70:GLY:N	2.71	0.48
55:BX:47:PHE:O	55:BX:49:VAL:HG13	2.12	0.48
1:CA:80:G:N7	1:CA:81:U:C5	2.81	0.48
1:CA:264:U:H2'	1:CA:265:G:O4'	2.14	0.48
1:CA:1128:C:C5'	9:CI:16:ARG:HH12	2.27	0.48
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.14	0.48
1:CA:1525:G:OP1	11:CK:120:ARG:NH2	2.46	0.48
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.29	0.48
7:CG:95:ARG:HG2	7:CG:99:LEU:HD11	1.95	0.48
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.39	0.48
11:CK:114:VAL:O	11:CK:114:VAL:HG13	2.14	0.48
18:CR:23:LYS:HB2	18:CR:56:THR:O	2.14	0.48
20:CT:23:ARG:O	20:CT:27:LYS:HB2	2.13	0.48
23:CW:20:G:C6	23:CW:58:C:C4	3.01	0.48
23:CW:57:U:C1'	23:CW:59:G:N7	2.77	0.48
22:CY:13:U:C4	22:CY:25:A:N6	2.81	0.48
22:CY:29:A:C6	22:CY:30:U:C4	3.02	0.48
22:CY:37:A:H2'	22:CY:38:U:O4'	2.14	0.48
22:CY:71:G:N1	22:CY:72:C:C5	2.81	0.48
29:D4:48:ARG:O	29:D4:49:PHE:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:5:VAL:HG12	31:D6:8:LYS:CB	2.44	0.48
35:DA:286:C:O2'	35:DA:287:C:H5'	2.14	0.48
35:DA:426:C:O2'	35:DA:427:U:H5'	2.13	0.48
35:DA:686:G:N2	35:DA:788:A:H61	2.12	0.48
35:DA:819:A:C4	35:DA:1189:A:C2	3.01	0.48
35:DA:1779:U:C5	35:DA:1784:A:N7	2.68	0.48
35:DA:2267:A:H5"	35:DA:2268:A:H5'	1.94	0.48
37:DC:195:ARG:HG3	37:DC:195:ARG:NH1	2.26	0.48
39:DE:21:VAL:HG23	39:DE:23:VAL:CG1	2.43	0.48
39:DE:51:PHE:H	39:DE:74:PRO:HB2	1.77	0.48
41:DG:43:LEU:HD11	41:DG:153:ARG:HB2	1.94	0.48
42:DH:9:ILE:HG12	42:DH:73:ALA:HB2	1.95	0.48
45:DN:3:THR:C	45:DN:5:VAL:N	2.70	0.48
45:DN:67:LEU:HD23	45:DN:87:LEU:HD13	1.95	0.48
46:DO:64:ARG:CZ	51:DT:70:VAL:HG21	2.44	0.48
47:DP:100:LEU:N	47:DP:100:LEU:HD22	2.29	0.48
49:DR:88:ARG:C	49:DR:88:ARG:HD2	2.38	0.48
49:DR:101:ALA:O	49:DR:102:GLU:CB	2.59	0.48
51:DT:23:ARG:O	51:DT:25:GLY:N	2.47	0.48
51:DT:28:VAL:HG13	51:DT:46:GLU:CA	2.43	0.48
52:DU:98:LEU:O	52:DU:99:ALA:C	2.55	0.48
53:DV:66:ARG:HH11	53:DV:66:ARG:HG2	1.79	0.48
1:AA:59:A:H2'	1:AA:59:A:N3	2.27	0.48
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.44	0.48
1:AA:867:G:H2'	1:AA:868:C:C6	2.48	0.48
1:AA:1084:G:H5'	1:AA:1102:A:OP2	2.13	0.48
1:AA:1439:C:H5'	20:AT:38:LYS:NZ	2.29	0.48
2:AB:37:ASN:C	2:AB:39:ILE:H	2.22	0.48
5:AE:70:PRO:O	5:AE:77:PRO:HD3	2.14	0.48
9:AI:55:ALA:CA	9:AI:58:HIS:HD2	2.24	0.48
12:AL:36:VAL:C	12:AL:58:VAL:HG22	2.38	0.48
12:AL:79:GLU:C	12:AL:81:SER:H	2.22	0.48
13:AM:99:ARG:O	13:AM:100:GLY:C	2.57	0.48
22:AV:9:A:C6	22:AV:47:G:C6	3.02	0.48
22:AV:63:C:H2'	22:AV:64:C:H6	1.77	0.48
23:AW:13:U:H2'	23:AW:14:A:H5"	1.93	0.48
23:AW:33:G:C2'	23:AW:34:C:H4'	2.44	0.48
24:AX:19:A:C5	22:AY:39:A:C2	3.01	0.48
22:AY:52:C:C4	22:AY:53:U:O4	2.66	0.48
22:AY:57:U:OP2	57:BZ:182:LYS:CB	2.59	0.48
25:B0:27:GLU:C	25:B0:29:GLN:N	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:9:LEU:HD22	29:B4:26:SER:O	2.13	0.48
35:BA:535:C:O3'	52:BU:53:ARG:NH1	2.46	0.48
35:BA:758:C:O2	35:BA:1981:A:H2	1.96	0.48
35:BA:1291:C:H2'	35:BA:1292:U:H6	1.79	0.48
35:BA:1794:U:H1'	35:BA:1900:A:N3	2.29	0.48
35:BA:2335:A:O2'	35:BA:2336:A:H5"	2.12	0.48
38:BD:76:PRO:HB2	38:BD:116:GLN:OE1	2.13	0.48
39:BE:23:VAL:HG12	39:BE:173:VAL:HG21	1.96	0.48
41:BG:43:LEU:N	41:BG:43:LEU:HD22	2.29	0.48
43:BI:92:VAL:HG12	43:BI:92:VAL:O	2.14	0.48
46:BO:105:GLU:OE1	46:BO:105:GLU:N	2.45	0.48
46:BO:107:ARG:CZ	51:BT:35:LYS:HD2	2.42	0.48
49:BR:2:ARG:O	49:BR:2:ARG:CD	2.61	0.48
49:BR:60:LEU:O	49:BR:61:HIS:C	2.55	0.48
50:BS:36:TYR:N	50:BS:36:TYR:HD1	2.12	0.48
50:BS:70:GLY:HA3	50:BS:101:LEU:HD23	1.95	0.48
52:BU:47:TYR:HA	52:BU:50:ARG:HH12	1.78	0.48
52:BU:76:TYR:CZ	52:BU:80:ILE:HG13	2.49	0.48
52:BU:98:LEU:O	52:BU:100:VAL:N	2.47	0.48
1:CA:857:C:H2'	1:CA:858:G:O4'	2.13	0.48
1:CA:1174:G:H2'	1:CA:1175:G:H8	1.79	0.48
1:CA:1291:G:O3'	9:CI:39:GLY:HA3	2.14	0.48
1:CA:1326:C:OP1	21:CU:12:LYS:HE2	2.14	0.48
2:CB:77:ALA:HB2	2:CB:211:ILE:HG21	1.94	0.48
2:CB:79:ASP:O	2:CB:81:VAL:N	2.46	0.48
2:CB:80:ILE:H	2:CB:80:ILE:CD1	2.01	0.48
3:CC:125:GLU:HG2	3:CC:190:ARG:O	2.13	0.48
3:CC:173:VAL:O	3:CC:173:VAL:HG12	2.13	0.48
4:CD:21:LEU:O	4:CD:113:SER:HB2	2.13	0.48
5:CE:72:GLN:C	5:CE:74:GLY:N	2.70	0.48
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.41	0.48
7:CG:113:GLU:HB3	7:CG:118:VAL:CG2	2.43	0.48
9:CI:24:GLY:HA2	9:CI:59:PHE:O	2.13	0.48
10:CJ:63:PHE:CD1	14:CN:58:LYS:HA	2.44	0.48
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.62	0.48
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.42	0.48
18:CR:30:ASP:O	18:CR:32:ARG:N	2.45	0.48
18:CR:36:ASN:HB2	18:CR:40:LEU:HD11	1.95	0.48
20:CT:10:LEU:HG	20:CT:12:ALA:HB2	1.96	0.48
23:CW:9:A:C6	23:CW:48:G:C2	3.01	0.48
23:CW:72:C:H2'	23:CW:73:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:78:A:O2'	35:DA:2394:C:O2	2.31	0.48
22:CY:56:U:P	57:DZ:180:VAL:HG12	2.49	0.48
28:D3:31:LEU:O	28:D3:32:GLN:HB2	2.13	0.48
30:D5:2:ALA:N	35:DA:2014:A:HO2'	2.12	0.48
32:D7:8:ASN:C	32:D7:8:ASN:ND2	2.51	0.48
35:DA:152:G:H1	35:DA:174:C:N4	2.10	0.48
35:DA:491:G:H2'	35:DA:492:A:H8	1.78	0.48
35:DA:589:C:O3'	40:DF:95:ARG:NH1	2.47	0.48
35:DA:745:G:H2'	35:DA:746:A:H5'	1.95	0.48
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.47	0.48
36:DB:109:C:H5'	36:DB:110:G:O5'	2.13	0.48
38:DD:9:TYR:C	38:DD:10:THR:HG22	2.38	0.48
39:DE:1:MET:HE2	39:DE:1:MET:N	2.28	0.48
41:DG:61:ALA:HA	41:DG:64:THR:HG22	1.96	0.48
42:DH:88:LEU:HD22	42:DH:88:LEU:N	2.29	0.48
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.81	0.48
45:DN:41:ASP:O	45:DN:42:TRP:O	2.32	0.48
47:DP:32:THR:O	47:DP:33:ARG:HB3	2.14	0.48
48:DQ:76:LYS:CB	48:DQ:91:GLU:HG3	2.41	0.48
49:DR:75:LEU:HD13	49:DR:75:LEU:O	2.12	0.48
51:DT:106:SER:O	51:DT:107:ASP:HB3	2.13	0.48
52:DU:74:LEU:C	52:DU:74:LEU:HD22	2.39	0.48
57:DZ:150:LEU:O	57:DZ:171:ILE:HD12	2.12	0.48
1:AA:108:G:N2	1:AA:108:G:OP2	2.46	0.48
1:AA:110:C:H2'	1:AA:111:G:O4'	2.13	0.48
1:AA:151:A:O2'	1:AA:152:A:H5'	2.13	0.48
1:AA:961:U:O5'	1:AA:961:U:H6	1.97	0.48
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.13	0.48
5:AE:71:LEU:HD13	5:AE:114:GLY:O	2.14	0.48
9:AI:9:ARG:HG2	9:AI:14:VAL:CG2	2.33	0.48
12:AL:53:ARG:HH12	12:AL:92:ASP:HB3	1.78	0.48
13:AM:91:ARG:CB	13:AM:98:VAL:HG13	2.40	0.48
20:AT:82:SER:O	20:AT:86:ARG:CB	2.60	0.48
22:AV:5:C:C4	22:AV:6:C:N4	2.81	0.48
23:AW:69:G:N3	23:AW:69:G:H2'	2.29	0.48
23:AW:71:G:C8	23:AW:71:G:O5'	2.67	0.48
26:B1:68:PRO:C	26:B1:70:VAL:N	2.71	0.48
28:B3:8:LEU:HD13	28:B3:31:LEU:HA	1.95	0.48
29:B4:5:ILE:CG1	41:BG:67:LYS:NZ	2.77	0.48
33:B8:13:ARG:HD2	47:BP:61:ARG:HH11	1.78	0.48
35:BA:70:G:H2'	35:BA:113:G:O2'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:247:G:H4'	35:BA:386:G:C5	2.48	0.48
35:BA:692:C:H2'	35:BA:693:C:H6	1.78	0.48
35:BA:705:A:C2	35:BA:727:A:H1'	2.49	0.48
35:BA:848:G:H5'	35:BA:848:G:H8	1.78	0.48
35:BA:1151:G:H5"	52:BU:81:HIS:CE1	2.49	0.48
35:BA:1165:U:O2'	35:BA:1166:C:H5'	2.13	0.48
35:BA:1332:G:N2	35:BA:1609:A:O2'	2.47	0.48
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.50	0.48
35:BA:1517:G:O2'	35:BA:1518:U:H5'	2.12	0.48
35:BA:1688:U:H1'	35:BA:1701:A:C6	2.49	0.48
35:BA:1996:C:C5	46:BO:32:TYR:OH	2.67	0.48
35:BA:2112:G:O2'	35:BA:2113:U:H5'	2.14	0.48
35:BA:2580:U:H5'	39:BE:131:ALA:CB	2.36	0.48
35:BA:2689:U:H5"	35:BA:2690:C:H5'	1.96	0.48
35:BA:2811:G:H4'	39:BE:61:ARG:HH21	1.78	0.48
35:BA:2892:A:H62	35:BA:2893:G:N2	2.10	0.48
38:BD:10:THR:C	38:BD:11:PRO:O	2.55	0.48
38:BD:76:PRO:O	38:BD:98:VAL:HG23	2.13	0.48
38:BD:186:HIS:CD2	38:BD:188:GLU:HB2	2.46	0.48
38:BD:270:ILE:O	38:BD:270:ILE:HD12	2.13	0.48
39:BE:196:VAL:HG23	39:BE:196:VAL:O	2.11	0.48
40:BF:20:LEU:O	40:BF:21:ALA:O	2.32	0.48
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.79	0.48
42:BH:97:ARG:O	42:BH:103:LEU:HD12	2.14	0.48
45:BN:134:ARG:O	45:BN:136:GLU:N	2.47	0.48
49:BR:88:ARG:HD2	49:BR:88:ARG:C	2.38	0.48
50:BS:58:LEU:O	50:BS:59:LYS:O	2.31	0.48
52:BU:104:GLN:O	52:BU:107:ALA:HB3	2.13	0.48
53:BV:76:LYS:HB2	53:BV:81:TYR:HB3	1.95	0.48
57:BZ:12:GLY:O	57:BZ:13:GLU:O	2.31	0.48
57:BZ:104:PHE:HD1	57:BZ:141:VAL:HG21	1.79	0.48
1:CA:366:C:H4'	1:CA:367:U:OP1	2.12	0.48
1:CA:541:G:O2'	1:CA:542:G:H5'	2.13	0.48
1:CA:620:C:C1'	4:CD:135:LEU:HD23	2.44	0.48
3:CC:188:LEU:O	3:CC:190:ARG:HG3	2.13	0.48
4:CD:24:GLU:O	4:CD:27:TYR:HB2	2.13	0.48
4:CD:152:SER:O	4:CD:153:ARG:C	2.57	0.48
5:CE:7:GLU:O	5:CE:8:GLU:HB3	2.13	0.48
6:CF:100:ASN:ND2	18:CR:23:LYS:NZ	2.62	0.48
7:CG:101:LEU:O	7:CG:105:VAL:HG23	2.14	0.48
8:CH:83:ILE:O	8:CH:83:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:24:VAL:HG12	12:CL:26:ALA:HB2	1.95	0.48
12:CL:41:ARG:O	12:CL:55:VAL:CG2	2.61	0.48
22:CV:71:G:N2	22:CV:72:C:C1'	2.77	0.48
23:CW:71:G:C8	23:CW:71:G:O5'	2.66	0.48
27:D2:45:SER:H	27:D2:46:GLN:HE21	1.58	0.48
31:D6:9:LEU:HD22	31:D6:9:LEU:C	2.39	0.48
35:DA:141:A:H8	35:DA:1408:C:HO2'	1.46	0.48
35:DA:544:G:C2	35:DA:547:A:H5'	2.49	0.48
35:DA:1598:C:H5'	55:DX:36:LYS:CB	2.38	0.48
35:DA:1996:C:H5	46:DO:32:TYR:OH	1.96	0.48
35:DA:2027:G:O2'	35:DA:2028:U:H5'	2.14	0.48
35:DA:2872:G:C2	35:DA:2873:A:N6	2.82	0.48
38:DD:10:THR:O	38:DD:13:ARG:HB3	2.14	0.48
38:DD:26:LYS:O	38:DD:27:THR:HG22	2.13	0.48
43:DI:62:LYS:NZ	43:DI:133:HIS:HB2	2.28	0.48
43:DI:116:LEU:HD12	43:DI:117:GLU:H	1.79	0.48
46:DO:98:VAL:HG12	46:DO:117:LEU:HB3	1.95	0.48
50:DS:58:LEU:O	50:DS:59:LYS:O	2.32	0.48
57:DZ:172:ALA:O	57:DZ:173:ALA:HB2	2.14	0.48
1:AA:253:U:H2'	1:AA:254:G:C8	2.49	0.48
1:AA:777:A:H2'	1:AA:778:G:C8	2.49	0.48
1:AA:865:A:H5'	1:AA:1078:U:C5	2.48	0.48
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.48	0.48
1:AA:1326:C:OP1	21:AU:12:LYS:HE2	2.13	0.48
2:AB:17:PHE:CB	2:AB:44:LEU:HD11	2.43	0.48
2:AB:95:GLN:HE21	2:AB:147:LYS:CE	2.27	0.48
4:AD:21:LEU:O	4:AD:113:SER:HB2	2.13	0.48
5:AE:67:VAL:HG22	5:AE:68:GLU:N	2.27	0.48
6:AF:33:TYR:N	6:AF:33:TYR:CD1	2.82	0.48
8:AH:77:GLU:HG2	8:AH:78:GLN:N	2.28	0.48
9:AI:20:ARG:HG3	9:AI:20:ARG:NH1	2.28	0.48
11:AK:21:ILE:HD13	11:AK:82:VAL:HG13	1.96	0.48
12:AL:69:TYR:O	12:AL:71:PRO:HD3	2.14	0.48
17:AQ:90:ILE:O	17:AQ:94:ASN:ND2	2.47	0.48
19:AS:19:VAL:HG12	19:AS:23:ASN:HD21	1.78	0.48
22:AV:14:A:C3'	22:AV:15:G:C8	2.76	0.48
22:AV:15:G:C8	22:AV:16:U:C5	3.01	0.48
23:AW:40:A:OP2	23:AW:40:A:C4'	2.60	0.48
22:AY:44:A:C6	22:AY:45:U:C4	3.02	0.48
29:B4:33:VAL:HG21	41:BG:109:VAL:CG1	2.44	0.48
34:B9:19:ARG:HA	35:BA:2757:A:OP1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.49	0.48
35:BA:2377:A:H4'	50:BS:107:GLU:HG3	1.96	0.48
38:BD:2:ALA:O	38:BD:3:VAL:CB	2.62	0.48
40:BF:164:ARG:HG3	40:BF:175:THR:OG1	2.13	0.48
42:BH:7:LEU:HD22	42:BH:65:HIS:NE2	2.28	0.48
42:BH:50:VAL:HG12	42:BH:51:ARG:N	2.27	0.48
42:BH:118:PRO:HG2	42:BH:121:ILE:HD12	1.95	0.48
45:BN:30:ILE:O	45:BN:34:LEU:HD22	2.13	0.48
45:BN:133:GLN:O	45:BN:134:ARG:CB	2.61	0.48
47:BP:18:ARG:HB3	47:BP:18:ARG:NH1	2.28	0.48
47:BP:71:VAL:C	47:BP:73:GLY:N	2.71	0.48
48:BQ:10:ARG:CZ	48:BQ:10:ARG:HB3	2.44	0.48
49:BR:11:ASN:OD1	49:BR:11:ASN:C	2.56	0.48
50:BS:93:LYS:O	50:BS:94:TYR:C	2.56	0.48
51:BT:65:LYS:HZ1	51:BT:66:VAL:N	2.12	0.48
52:BU:113:ALA:C	52:BU:115:ALA:N	2.72	0.48
56:BY:7:VAL:CG2	56:BY:8:LYS:HZ2	2.23	0.48
57:BZ:33:LEU:CG	57:BZ:34:ASN:N	2.76	0.48
57:BZ:151:HIS:N	57:BZ:151:HIS:CD2	2.81	0.48
1:CA:1028:C:H2'	1:CA:1029:C:H5'	1.96	0.48
2:CB:11:LEU:CD1	2:CB:217:ARG:NH2	2.76	0.48
2:CB:71:VAL:HG13	2:CB:93:VAL:HB	1.96	0.48
3:CC:157:ILE:CD1	3:CC:166:GLU:HB2	2.44	0.48
4:CD:33:MET:C	4:CD:35:ARG:H	2.22	0.48
5:CE:127:ASN:OD1	5:CE:129:ILE:HB	2.14	0.48
7:CG:64:GLN:HE21	7:CG:68:ASN:ND2	2.11	0.48
16:CP:5:ARG:CB	16:CP:67:THR:OG1	2.62	0.48
18:CR:35:ARG:C	18:CR:37:VAL:H	2.22	0.48
20:CT:102:GLY:O	20:CT:103:GLY:C	2.56	0.48
22:CV:78:A:OP1	22:CV:78:A:H4'	2.13	0.48
23:CW:4:C:C4	23:CW:5:C:N4	2.82	0.48
29:D4:11:PRO:HA	29:D4:25:TYR:HA	1.96	0.48
34:D9:35:ARG:HD3	35:DA:2742:C:OP1	2.13	0.48
35:DA:363(E):U:H5'	35:DA:363(F):A:OP2	2.14	0.48
35:DA:661:C:H2'	35:DA:662:G:H8	1.77	0.48
35:DA:1204:A:H61	35:DA:1240:U:H2'	1.78	0.48
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.14	0.48
35:DA:1762:A:C8	35:DA:1762:A:O5'	2.66	0.48
35:DA:2036:C:H6	35:DA:2036:C:C5'	2.21	0.48
35:DA:2094:G:OP1	43:DI:22:LYS:HD2	2.14	0.48
35:DA:2297:C:O2'	35:DA:2298:A:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:31:C:C2'	36:DB:53:A:H61	2.27	0.48
37:DC:52:PRO:HG2	37:DC:53:ARG:HH11	1.78	0.48
39:DE:34:VAL:HG12	39:DE:49:LEU:HA	1.95	0.48
40:DF:8:GLN:O	40:DF:9:ILE:C	2.57	0.48
40:DF:84:VAL:C	40:DF:86:GLY:N	2.70	0.48
41:DG:120:LEU:HG	41:DG:179:PRO:O	2.13	0.48
41:DG:123:ASN:HA	41:DG:125:PHE:CE1	2.48	0.48
42:DH:156:ALA:C	42:DH:158:HIS:N	2.72	0.48
48:DQ:42:ILE:HD12	48:DQ:42:ILE:N	2.29	0.48
57:DZ:61:LEU:HD21	57:DZ:65:GLN:CB	2.44	0.48
1:AA:203:U:H3'	1:AA:203:U:OP2	2.14	0.48
1:AA:252:U:C4	1:AA:253:U:O4	2.67	0.48
1:AA:271:C:O2'	1:AA:272:C:H5'	2.13	0.48
1:AA:421:U:O2	1:AA:421:U:C2'	2.61	0.48
1:AA:1030(C):G:H2'	1:AA:1030(D):A:C8	2.49	0.48
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.14	0.48
1:AA:1242:C:H42	1:AA:1295:G:H1	1.60	0.48
2:AB:80:ILE:HD11	2:AB:208:ILE:CG2	2.34	0.48
10:AJ:49:VAL:O	10:AJ:60:ARG:HB2	2.13	0.48
13:AM:3:ARG:NH2	41:BG:113:ARG:HB2	2.29	0.48
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.96	0.48
13:AM:30:ALA:C	13:AM:32:GLU:N	2.72	0.48
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.79	0.48
16:AP:48:TRP:CD1	16:AP:48:TRP:H	2.30	0.48
18:AR:50:ILE:HD11	18:AR:70:ILE:HG21	1.96	0.48
20:AT:13:LEU:C	20:AT:15:ARG:N	2.68	0.48
23:AW:52:C:C2	23:AW:53:U:C4	3.02	0.48
22:AY:14:A:H3'	22:AY:15:G:H8	1.79	0.48
22:AY:69:G:C5	22:AY:70:G:C8	3.02	0.48
27:B2:15:LYS:O	27:B2:15:LYS:HG3	2.13	0.48
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.82	0.48
35:BA:271(C):C:O2'	35:BA:271(D):G:H5'	2.12	0.48
35:BA:1493:C:O2	35:BA:1493:C:C2'	2.62	0.48
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.48	0.48
35:BA:2779:U:H4'	35:BA:2780:G:C5'	2.44	0.48
40:BF:194:MET:HE3	40:BF:199:TRP:CD1	2.48	0.48
41:BG:114:ILE:HG21	41:BG:117:PHE:HB2	1.95	0.48
43:BI:27:ARG:HG3	43:BI:27:ARG:NH1	2.21	0.48
43:BI:129:THR:CG2	43:BI:135:GLU:HG3	2.43	0.48
46:BO:98:VAL:HG12	46:BO:117:LEU:HB3	1.96	0.48
48:BQ:110:THR:C	48:BQ:112:GLU:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:62:THR:HA	51:BT:74:ARG:O	2.14	0.48
53:BV:66:ARG:N	53:BV:91:TYR:HE1	2.12	0.48
56:BY:98:VAL:O	56:BY:98:VAL:HG12	2.13	0.48
1:CA:203:U:OP2	1:CA:203:U:H3'	2.14	0.48
1:CA:255:G:O2'	1:CA:256:U:H5'	2.13	0.48
1:CA:313:A:H2'	1:CA:314:C:C6	2.49	0.48
1:CA:921:U:O2	5:CE:19:MET:HB2	2.14	0.48
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.13	0.48
1:CA:1521:G:H2'	1:CA:1522:U:H6	1.78	0.48
5:CE:6:PHE:HD1	5:CE:63:ARG:HH12	1.62	0.48
5:CE:101:ILE:N	5:CE:101:ILE:HD13	2.29	0.48
6:CF:68:PRO:HG3	6:CF:71:ARG:HH21	1.78	0.48
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.79	0.48
10:CJ:63:PHE:HA	14:CN:59:ALA:H	1.79	0.48
26:D1:76:ARG:HD2	35:DA:271(R):G:OP1	2.13	0.48
35:DA:252:G:OP2	47:DP:50:ARG:NH2	2.44	0.48
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.14	0.48
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.61	0.48
35:DA:1493:C:H4'	35:DA:1494:A:OP1	2.14	0.48
39:DE:9:VAL:CG2	39:DE:25:VAL:HB	2.41	0.48
40:DF:16:GLY:O	40:DF:17:ARG:HG3	2.14	0.48
41:DG:57:ALA:HA	41:DG:90:LEU:CD2	2.43	0.48
42:DH:28:GLY:HA3	42:DH:79:VAL:HB	1.95	0.48
42:DH:41:MET:CE	42:DH:53:GLU:H	2.27	0.48
43:DI:139:GLN:H	43:DI:139:GLN:NE2	2.11	0.48
45:DN:58:ASP:C	45:DN:60:ILE:N	2.69	0.48
45:DN:133:GLN:O	45:DN:134:ARG:HB3	2.13	0.48
46:DO:77:ILE:HD11	51:DT:72:VAL:CG1	2.43	0.48
47:DP:6:LEU:HD12	47:DP:8:PRO:CG	2.42	0.48
47:DP:48:PRO:CG	47:DP:49:ARG:N	2.68	0.48
47:DP:101:VAL:HG12	47:DP:107:LYS:H	1.78	0.48
50:DS:89:ARG:HH11	50:DS:89:ARG:CG	2.27	0.48
51:DT:28:VAL:CG2	51:DT:47:GLY:H	2.20	0.48
51:DT:33:LYS:NZ	51:DT:74:ARG:NH2	2.62	0.48
57:DZ:9:TYR:HD1	57:DZ:37:VAL:HG12	1.78	0.48
1:AA:451:A:C6	1:AA:480:U:H2'	2.48	0.48
1:AA:501:C:O3'	12:AL:118:SER:HB2	2.14	0.48
1:AA:1128:C:C5'	9:AI:16:ARG:HH12	2.27	0.48
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.75	0.48
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.14	0.48
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:84:ILE:HD11	3:AC:88:ARG:NH2	2.29	0.48
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.38	0.48
4:AD:31:CYS:HG	58:AD:1000:ZN:ZN	0.45	0.48
5:AE:33:VAL:HG12	5:AE:34:VAL:N	2.29	0.48
5:AE:148:VAL:C	5:AE:150:ARG:N	2.69	0.48
9:AI:43:ALA:C	9:AI:45:ALA:H	2.22	0.48
10:AJ:12:ASP:OD2	10:AJ:15:THR:HG23	2.14	0.48
12:AL:84:LEU:CD1	12:AL:104:VAL:HG11	2.44	0.48
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.62	0.48
17:AQ:66:SER:O	17:AQ:67:LYS:C	2.57	0.48
19:AS:79:THR:O	19:AS:80:TYR:HB3	2.14	0.48
22:AV:5:C:O2	22:AV:71:G:C4	2.66	0.48
22:AV:23:A:H5'	22:AV:24:A:OP1	2.14	0.48
22:AV:70:G:N3	22:AV:71:G:C8	2.82	0.48
23:AW:9:A:C5	23:AW:48:G:C2	3.02	0.48
23:AW:15:G:H22	23:AW:23:A:C1'	2.17	0.48
23:AW:26:G:H3'	23:AW:27:C:C6	2.49	0.48
23:AW:40:A:C8	23:AW:41:C:C4	3.02	0.48
22:AY:43:G:N1	22:AY:44:A:C5	2.82	0.48
26:B1:83:GLU:O	26:B1:84:GLY:O	2.31	0.48
29:B4:26:SER:HB2	41:BG:143:GLU:OE1	2.14	0.48
31:B6:9:LEU:C	31:B6:9:LEU:HD22	2.39	0.48
35:BA:74:A:H4'	35:BA:75:G:O4'	2.14	0.48
35:BA:1916:A:H5'	35:BA:1916:A:C8	2.46	0.48
35:BA:2020:A:O2'	35:BA:2021:C:H5'	2.14	0.48
35:BA:2884:U:H2'	35:BA:2885:C:C5'	2.44	0.48
36:BB:50:G:OP2	50:BS:62:LYS:CB	2.61	0.48
38:BD:75:ILE:O	38:BD:118:VAL:HG23	2.14	0.48
39:BE:57:LYS:O	39:BE:59:VAL:N	2.46	0.48
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.29	0.48
43:BI:97:ILE:HG22	43:BI:101:LEU:HD22	1.96	0.48
43:BI:100:ALA:HA	43:BI:103:ARG:CD	2.39	0.48
44:BJ:108:UNK:O	44:BJ:110:UNK:N	2.46	0.48
45:BN:1:MET:O	45:BN:2:LYS:HG3	2.14	0.48
47:BP:6:LEU:HD12	47:BP:8:PRO:CG	2.43	0.48
52:BU:91:ASP:OD1	52:BU:96:ALA:CB	2.58	0.48
52:BU:101:ARG:C	52:BU:102:GLU:CG	2.87	0.48
54:BW:20:VAL:CG2	54:BW:47:VAL:HG21	2.44	0.48
1:CA:227:G:H2'	1:CA:228:A:H8	1.79	0.48
1:CA:445:G:H2'	1:CA:446:G:H8	1.79	0.48
1:CA:511:C:H1'	4:CD:43:HIS:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:956:U:O2'	1:CA:957:U:H5'	2.14	0.48
1:CA:961:U:O2'	1:CA:962:C:H5'	2.14	0.48
1:CA:1073:U:H3	1:CA:1102:A:H61	1.62	0.48
1:CA:1123:A:O2'	10:CJ:38:ILE:HG22	2.13	0.48
1:CA:1405:G:H2'	1:CA:1406:U:C6	2.42	0.48
4:CD:79:PHE:HD1	4:CD:79:PHE:O	1.97	0.48
5:CE:31:LEU:HD21	5:CE:43:LEU:HD11	1.96	0.48
5:CE:62:ALA:C	5:CE:64:ARG:H	2.22	0.48
5:CE:111:GLU:C	5:CE:113:ALA:H	2.22	0.48
6:CF:23:LYS:O	6:CF:27:GLN:HG2	2.13	0.48
8:CH:73:ASP:C	8:CH:75:ARG:H	2.21	0.48
12:CL:79:GLU:C	12:CL:81:SER:H	2.22	0.48
14:CN:13:THR:HG22	14:CN:13:THR:O	2.14	0.48
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.14	0.48
22:CY:63:C:C1'	57:DZ:185:GLU:OE1	2.61	0.48
27:D2:31:GLU:HB3	27:D2:53:LEU:HD11	1.96	0.48
27:D2:47:ASN:N	27:D2:47:ASN:OD1	2.45	0.48
35:DA:557:U:H2'	35:DA:558:G:C8	2.49	0.48
35:DA:612:C:C3'	35:DA:613:G:H5"	2.39	0.48
35:DA:889:C:H1'	35:DA:890:A:O4'	2.14	0.48
35:DA:1122:G:O2'	35:DA:1123:C:H5'	2.13	0.48
35:DA:1242:A:N1	47:DP:8:PRO:HG3	2.28	0.48
35:DA:1362:C:C2'	35:DA:1363:C:H5'	2.44	0.48
35:DA:1668:A:H4'	35:DA:1669:A:O5'	2.14	0.48
35:DA:1682:G:H5'	35:DA:1762:A:O2'	2.13	0.48
35:DA:1769:G:O2'	35:DA:1958:C:OP1	2.28	0.48
35:DA:2313:C:C6	35:DA:2314:C:H5	2.32	0.48
35:DA:2736:G:O2'	35:DA:2737:G:H5'	2.14	0.48
35:DA:2820:A:O4'	49:DR:5:LYS:HD2	2.14	0.48
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.49	0.48
39:DE:33:VAL:CG1	39:DE:69:LYS:HZ1	2.27	0.48
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.29	0.48
41:DG:36:LYS:CD	41:DG:38:VAL:HG23	2.44	0.48
41:DG:45:GLU:O	41:DG:88:ILE:HG13	2.13	0.48
41:DG:106:LEU:O	41:DG:110:ALA:HB3	2.14	0.48
42:DH:9:ILE:HD13	42:DH:9:ILE:C	2.39	0.48
43:DI:111:PRO:HG2	43:DI:112:LYS:HD2	1.94	0.48
50:DS:67:ARG:HH11	50:DS:67:ARG:CB	2.17	0.48
50:DS:68:GLN:C	50:DS:70:GLY:N	2.70	0.48
51:DT:70:VAL:CG1	51:DT:71:GLY:H	2.27	0.48
1:AA:14:U:O2	1:AA:17:U:H5	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:156:G:O2'	1:AA:157:G:H5'	2.13	0.47
1:AA:439:A:H2'	1:AA:441:A:C4'	2.44	0.47
1:AA:939:G:H5"	7:AG:102:ARG:HH22	1.77	0.47
1:AA:961:U:O2'	1:AA:962:C:H5'	2.14	0.47
1:AA:1086:U:O5'	1:AA:1086:U:H6	1.97	0.47
1:AA:1291:G:O3'	9:AI:39:GLY:HA3	2.14	0.47
2:AB:77:ALA:HB2	2:AB:211:ILE:HG21	1.96	0.47
7:AG:101:LEU:O	7:AG:105:VAL:HG23	2.14	0.47
7:AG:120:ILE:HG22	7:AG:124:LEU:HD12	1.96	0.47
9:AI:18:PHE:HD2	9:AI:62:TYR:HD2	1.62	0.47
9:AI:96:LEU:O	9:AI:102:LEU:HB2	2.13	0.47
12:AL:40:VAL:HG22	12:AL:78:GLN:O	2.12	0.47
12:AL:41:ARG:O	12:AL:55:VAL:CG2	2.62	0.47
13:AM:70:LEU:O	13:AM:74:VAL:HG23	2.14	0.47
13:AM:114:ARG:C	13:AM:115:LYS:HD3	2.39	0.47
15:AO:63:ARG:O	15:AO:67:LEU:HG	2.13	0.47
33:B8:33:ASN:N	33:B8:33:ASN:HD22	2.12	0.47
35:BA:308:G:O2'	56:BY:19:LYS:HE2	2.13	0.47
35:BA:639:U:H2'	35:BA:640:C:C6	2.49	0.47
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.49	0.47
38:BD:20:ASP:OD1	38:BD:20:ASP:C	2.57	0.47
38:BD:68:LYS:O	38:BD:68:LYS:HG3	2.13	0.47
39:BE:75:VAL:C	39:BE:77:ILE:H	2.21	0.47
40:BF:66:PRO:O	40:BF:67:GLN:CB	2.57	0.47
40:BF:132:VAL:O	40:BF:133:ASN:O	2.32	0.47
41:BG:8:LYS:O	41:BG:11:TYR:HB3	2.14	0.47
42:BH:107:VAL:O	42:BH:107:VAL:HG23	2.14	0.47
43:BI:88:ILE:CG2	43:BI:89:TYR:H	2.23	0.47
45:BN:5:VAL:O	45:BN:5:VAL:HG13	2.14	0.47
46:BO:22:ILE:HG12	46:BO:41:ALA:HA	1.96	0.47
49:BR:45:ARG:O	49:BR:48:VAL:HG12	2.13	0.47
51:BT:13:ARG:NH1	51:BT:13:ARG:CA	2.72	0.47
54:BW:37:ARG:HG3	54:BW:37:ARG:HH11	1.79	0.47
56:BY:57:GLN:HG2	56:BY:58:GLY:H	1.78	0.47
57:BZ:57:ILE:CG2	57:BZ:58:VAL:N	2.76	0.47
1:CA:386:C:O2'	1:CA:387:U:H5'	2.14	0.47
1:CA:389:A:H2'	1:CA:390:C:C5'	2.43	0.47
1:CA:611:A:H2	1:CA:630:G:N2	2.12	0.47
1:CA:644:G:O2'	1:CA:645:C:H5'	2.14	0.47
1:CA:666:G:C5	1:CA:741:G:C6	3.02	0.47
1:CA:935:A:H2'	1:CA:936:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1427:U:H2'	1:CA:1428:A:H8	1.79	0.47
2:CB:23:ARG:O	2:CB:23:ARG:HG3	2.13	0.47
2:CB:237:ALA:O	2:CB:238:LEU:HB3	2.14	0.47
3:CC:82:GLU:O	3:CC:86:VAL:HG13	2.14	0.47
9:CI:37:PHE:HB3	9:CI:43:ALA:HB2	1.96	0.47
9:CI:99:LEU:HD12	9:CI:101:PHE:HE1	1.79	0.47
13:CM:97:PRO:HG3	13:CM:103:THR:HG22	1.96	0.47
13:CM:99:ARG:O	13:CM:100:GLY:C	2.57	0.47
15:CO:7:GLU:O	15:CO:10:LYS:HB3	2.14	0.47
23:CW:32:G:H2'	23:CW:33:G:H8	1.78	0.47
22:CY:57:U:C6	22:CY:59:G:OP2	2.67	0.47
31:D6:7:ILE:HG12	31:D6:29:ASN:ND2	2.29	0.47
35:DA:332:A:O2'	35:DA:334:C:OP2	2.18	0.47
35:DA:709:U:H3	35:DA:722:A:N6	2.10	0.47
35:DA:1007:C:OP1	45:DN:35:ARG:NH1	2.47	0.47
35:DA:1141:U:C5	45:DN:64:GLY:HA3	2.49	0.47
35:DA:1403:C:H5"	35:DA:1471:A:C1'	2.43	0.47
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.44	0.47
38:DD:45:ASN:OD1	38:DD:46:GLN:N	2.47	0.47
38:DD:72:LYS:NZ	38:DD:72:LYS:HB3	2.29	0.47
39:DE:104:VAL:HG11	39:DE:188:VAL:HG23	1.94	0.47
40:DF:8:GLN:CG	40:DF:126:VAL:HA	2.43	0.47
40:DF:192:LEU:HD21	40:DF:194:MET:HG3	1.95	0.47
41:DG:19:LEU:C	41:DG:22:ARG:H	2.20	0.47
41:DG:36:LYS:CE	41:DG:95:ARG:HH12	2.26	0.47
41:DG:76:SER:C	41:DG:78:SER:N	2.56	0.47
41:DG:170:ARG:NH2	41:DG:180:PHE:CD2	2.82	0.47
43:DI:98:ALA:HB1	43:DI:109:ILE:HD13	1.95	0.47
44:DJ:130:UNK:C	44:DJ:132:UNK:N	2.76	0.47
47:DP:108:LYS:C	47:DP:110:TYR:N	2.72	0.47
53:DV:6:LYS:O	53:DV:37:VAL:HG21	2.14	0.47
54:DW:40:ASN:C	54:DW:41:LYS:HG2	2.38	0.47
1:AA:19:C:H5"	5:AE:86:ALA:HB3	1.90	0.47
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.13	0.47
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.49	0.47
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.13	0.47
3:AC:6:HIS:CD2	3:AC:7:PRO:HD2	2.49	0.47
4:AD:22:LYS:O	4:AD:113:SER:HB3	2.14	0.47
4:AD:33:MET:HE3	4:AD:37:PRO:HB3	1.95	0.47
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD3	2.43	0.47
10:AJ:56:HIS:O	10:AJ:58:ASP:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:63:PHE:CD1	14:AN:58:LYS:HA	2.45	0.47
17:AQ:9:VAL:HG11	17:AQ:84:LEU:HD13	1.96	0.47
32:B7:19:ARG:HG2	32:B7:19:ARG:NH1	2.28	0.47
35:BA:57:C:O2'	35:BA:58:G:H5'	2.14	0.47
35:BA:152:G:H1	35:BA:174:C:N4	2.09	0.47
35:BA:292:C:O2'	35:BA:293:U:H5'	2.14	0.47
35:BA:469:G:O2'	35:BA:470:A:H5"	2.14	0.47
35:BA:1816:G:C8	38:BD:62:TYR:CZ	3.01	0.47
35:BA:1980:G:O2'	35:BA:1982:C:OP2	2.32	0.47
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.49	0.47
37:BC:50:ILE:HD12	37:BC:50:ILE:O	2.14	0.47
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.62	0.47
42:BH:9:ILE:O	42:BH:9:ILE:CG2	2.56	0.47
42:BH:156:ALA:C	42:BH:158:HIS:N	2.70	0.47
43:BI:47:LEU:HD12	43:BI:50:ARG:NH1	2.29	0.47
44:BJ:80:UNK:C	44:BJ:82:UNK:N	2.77	0.47
45:BN:131:GLN:C	45:BN:133:GLN:H	2.22	0.47
48:BQ:58:PHE:HD1	48:BQ:58:PHE:O	1.97	0.47
1:CA:401:C:H2'	1:CA:402:G:C8	2.49	0.47
1:CA:624:C:H2'	1:CA:625:G:C8	2.47	0.47
1:CA:706:A:O4'	11:CK:29:ILE:HD13	2.14	0.47
1:CA:1226:C:OP1	19:CS:81:ARG:NH2	2.47	0.47
1:CA:1240:U:H4'	7:CG:38:LEU:HD21	1.96	0.47
1:CA:1306:A:H1'	1:CA:1332:A:C2	2.49	0.47
1:CA:1422:G:H2'	1:CA:1423:G:C8	2.46	0.47
1:CA:1507:A:H2'	1:CA:1508:G:O5'	2.14	0.47
2:CB:37:ASN:C	2:CB:39:ILE:H	2.23	0.47
2:CB:47:THR:HG23	2:CB:202:PRO:HG2	1.96	0.47
2:CB:97:TRP:CE2	2:CB:101:MET:HG3	2.49	0.47
3:CC:74:GLY:C	3:CC:76:VAL:N	2.71	0.47
3:CC:206:GLU:HG2	3:CC:207:VAL:N	2.22	0.47
4:CD:10:ARG:O	4:CD:13:ARG:HB2	2.14	0.47
6:CF:35:ALA:HB2	6:CF:67:MET:SD	2.54	0.47
7:CG:23:VAL:HG12	7:CG:23:VAL:O	2.13	0.47
8:CH:91:ARG:HH11	8:CH:91:ARG:CG	2.23	0.47
9:CI:18:PHE:HB2	9:CI:62:TYR:O	2.15	0.47
9:CI:38:GLN:OE1	9:CI:38:GLN:C	2.57	0.47
9:CI:63:ILE:CG2	9:CI:64:THR:N	2.78	0.47
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.12	0.47
10:CJ:49:VAL:O	10:CJ:60:ARG:HB2	2.13	0.47
10:CJ:56:HIS:O	10:CJ:58:ASP:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:59:TYR:CZ	11:CK:63:LEU:HD21	2.48	0.47
12:CL:21:LYS:O	12:CL:22:SER:C	2.57	0.47
16:CP:67:THR:CG2	16:CP:68:ASP:N	2.76	0.47
18:CR:23:LYS:HD2	18:CR:58:LEU:HA	1.96	0.47
21:CU:22:ARG:O	21:CU:23:PRO:C	2.56	0.47
21:CU:23:PRO:C	21:CU:25:LYS:N	2.72	0.47
22:CV:36:AG9:H2'	22:CV:37:A:H5'	1.95	0.47
28:D3:8:LEU:CD1	28:D3:31:LEU:HA	2.44	0.47
33:D8:30:ARG:CZ	35:DA:2419:U:O4	2.62	0.47
33:D8:56:GLU:C	33:D8:58:ILE:H	2.21	0.47
35:DA:364:C:H2'	35:DA:365:C:C5'	2.44	0.47
35:DA:1112:G:O2'	35:DA:1113:U:C6	2.67	0.47
35:DA:1494:A:O2'	35:DA:1496:A:H2	1.96	0.47
35:DA:1754:C:OP2	51:DT:113:LYS:HE3	2.14	0.47
35:DA:1962:C:O2'	35:DA:1964:G:OP2	2.31	0.47
35:DA:2849:U:OP2	51:DT:95:ARG:NH1	2.46	0.47
39:DE:101:ARG:HE	39:DE:169:ASN:ND2	2.11	0.47
40:DF:25:PRO:CB	40:DF:119:ARG:HD3	2.36	0.47
41:DG:6:ALA:O	41:DG:10:LYS:HG3	2.13	0.47
41:DG:19:LEU:HB3	41:DG:25:TYR:CE2	2.37	0.47
42:DH:11:VAL:HG12	42:DH:15:VAL:HG23	1.96	0.47
48:DQ:21:THR:CG2	48:DQ:101:ARG:HB2	2.44	0.47
49:DR:29:LEU:O	49:DR:75:LEU:HD21	2.14	0.47
54:DW:20:VAL:HG23	54:DW:47:VAL:HG21	1.96	0.47
56:DY:2:ARG:CZ	56:DY:3:VAL:HG23	2.44	0.47
1:AA:202:U:H3'	1:AA:203:U:C6	2.49	0.47
1:AA:683:G:H2'	1:AA:684:A:C8	2.49	0.47
1:AA:689:C:H2'	1:AA:690:G:O4'	2.14	0.47
1:AA:801:U:H2'	1:AA:802:A:H8	1.80	0.47
1:AA:828:A:H5"	1:AA:859:A:N1	2.29	0.47
1:AA:1054:C:N4	22:AY:36:AG9:C2	2.77	0.47
1:AA:1418:A:H2	35:BA:1948:G:N3	2.13	0.47
2:AB:145:LEU:O	2:AB:149:LEU:HB2	2.14	0.47
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	2.29	0.47
9:AI:9:ARG:HA	9:AI:13:ALA:O	2.14	0.47
10:AJ:49:VAL:HG22	10:AJ:50:ILE:N	2.29	0.47
12:AL:21:LYS:O	12:AL:22:SER:C	2.56	0.47
12:AL:24:VAL:CG1	12:AL:26:ALA:HB2	2.45	0.47
12:AL:35:GLY:CA	12:AL:58:VAL:CG1	2.92	0.47
22:AV:12:U:C2'	22:AV:13:U:O4'	2.55	0.47
22:AY:29:A:C5	22:AY:30:U:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:71:G:N1	22:AY:72:C:C6	2.82	0.47
30:B5:4:HIS:CD2	35:BA:2056:G:H1	2.30	0.47
30:B5:35:GLU:O	30:B5:36:CYS:CB	2.62	0.47
33:B8:39:LYS:CG	33:B8:43:GLN:HE21	2.25	0.47
33:B8:58:ILE:CG2	47:BP:49:ARG:CD	2.92	0.47
33:B8:61:LEU:HD12	33:B8:62:LEU:N	2.29	0.47
35:BA:156:U:H2'	35:BA:156:U:O2	2.14	0.47
35:BA:554:U:O2'	35:BA:555:U:H5'	2.15	0.47
35:BA:589:C:O3'	40:BF:95:ARG:NH1	2.47	0.47
35:BA:1141:U:C5	45:BN:64:GLY:HA3	2.49	0.47
35:BA:1161:C:H4'	53:BV:8:GLY:HA2	1.95	0.47
35:BA:1495:A:C2	35:BA:1496:A:C2	3.03	0.47
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.44	0.47
35:BA:2011:U:C2'	35:BA:2012:G:H5'	2.43	0.47
35:BA:2162:G:H5'	35:BA:2173:A:H5'	1.94	0.47
38:BD:106:ILE:HD11	38:BD:157:ARG:O	2.14	0.47
41:BG:41:GLN:NE2	41:BG:155:MET:HB3	2.29	0.47
41:BG:60:LEU:O	41:BG:63:ILE:HG12	2.14	0.47
42:BH:94:TYR:N	42:BH:94:TYR:CD1	2.82	0.47
43:BI:4:ILE:HG12	43:BI:18:VAL:HG22	1.95	0.47
50:BS:54:LEU:C	50:BS:56:LEU:N	2.69	0.47
52:BU:112:ARG:NH2	53:BV:46:VAL:HG11	2.30	0.47
57:BZ:150:LEU:C	57:BZ:151:HIS:HD2	2.23	0.47
1:CA:34:C:H2'	1:CA:35:G:C8	2.49	0.47
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.43	0.47
1:CA:236:G:C6	1:CA:237:C:C4	3.03	0.47
1:CA:502:G:C6	1:CA:503:C:C4	3.02	0.47
1:CA:640:A:C2'	1:CA:641:U:H5'	2.45	0.47
1:CA:1014:A:C2	1:CA:1219:U:O2	2.68	0.47
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.49	0.47
1:CA:1216:G:O2'	1:CA:1217:C:H5'	2.14	0.47
1:CA:1292:U:H5'	9:CI:38:GLN:HE22	1.77	0.47
1:CA:1507:A:C2'	1:CA:1508:G:O5'	2.62	0.47
2:CB:235:SER:OG	2:CB:236:TYR:HD1	1.96	0.47
4:CD:33:MET:HE3	4:CD:37:PRO:HB3	1.96	0.47
4:CD:78:LEU:O	4:CD:79:PHE:C	2.58	0.47
9:CI:114:TYR:N	9:CI:114:TYR:CD1	2.64	0.47
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HB3	1.95	0.47
12:CL:27:LEU:HD22	12:CL:27:LEU:N	2.28	0.47
14:CN:22:THR:O	14:CN:23:ARG:HB2	2.14	0.47
22:CV:49:G:H3'	22:CV:50:C:H5"	1.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:64:C:H2'	22:CV:65:G:C8	2.50	0.47
22:CV:68:A:C6	22:CV:69:G:N7	2.82	0.47
23:CW:5:C:O2	23:CW:72:C:C2	2.67	0.47
23:CW:24:A:C4	23:CW:25:A:C8	3.03	0.47
23:CW:43:G:C2	23:CW:44:A:C4	3.03	0.47
22:CY:24:A:N1	22:CY:25:A:N7	2.62	0.47
22:CY:56:U:O5'	22:CY:56:U:C6	2.58	0.47
22:CY:67:C:C6	22:CY:67:C:H3'	2.49	0.47
29:D4:48:ARG:HG3	29:D4:49:PHE:HD1	1.78	0.47
30:D5:51:TYR:OH	30:D5:52:TYR:HD2	1.98	0.47
33:D8:55:ALA:O	33:D8:58:ILE:HB	2.14	0.47
35:DA:1241:A:O2'	35:DA:1242:A:H5'	2.14	0.47
35:DA:1602:U:H3'	35:DA:1603:A:C5'	2.43	0.47
35:DA:1675:C:C2	39:DE:129:HIS:CD2	3.02	0.47
35:DA:1856:G:O2'	35:DA:1857:G:H5'	2.14	0.47
35:DA:2101:G:H2'	35:DA:2102:U:O4'	2.15	0.47
37:DC:11:LEU:HD13	37:DC:33:LEU:O	2.14	0.47
38:DD:96:HIS:HA	38:DD:102:LYS:HB3	1.94	0.47
39:DE:143:ASN:HB2	39:DE:147:PRO:HD2	1.94	0.47
41:DG:22:ARG:O	41:DG:22:ARG:HD3	2.14	0.47
41:DG:27:ASN:C	41:DG:29:TRP:H	2.22	0.47
45:DN:112:LEU:O	45:DN:115:ARG:HB3	2.14	0.47
48:DQ:58:PHE:HD1	48:DQ:58:PHE:O	1.97	0.47
49:DR:53:HIS:HA	49:DR:56:LYS:HD3	1.95	0.47
49:DR:60:LEU:O	49:DR:61:HIS:C	2.56	0.47
50:DS:16:ASN:O	50:DS:19:LYS:CB	2.63	0.47
50:DS:16:ASN:OD1	50:DS:17:ARG:N	2.48	0.47
57:DZ:72:ARG:NH2	57:DZ:89:PHE:CD2	2.78	0.47
1:AA:68:G:C2	1:AA:69:G:C4	3.02	0.47
1:AA:80:G:N7	1:AA:81:U:C5	2.82	0.47
1:AA:710:G:OP1	6:AF:54:LYS:HE3	2.13	0.47
1:AA:738:C:H2'	1:AA:739:C:H6	1.79	0.47
1:AA:927:G:H8	1:AA:927:G:H5'	1.79	0.47
3:AC:74:GLY:O	3:AC:76:VAL:N	2.47	0.47
3:AC:82:GLU:O	3:AC:86:VAL:HG13	2.14	0.47
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.80	0.47
7:AG:64:GLN:HE21	7:AG:68:ASN:ND2	2.12	0.47
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	1.96	0.47
9:AI:40:LEU:HD12	9:AI:70:LYS:HG3	1.96	0.47
9:AI:48:GLU:OE1	9:AI:51:ARG:HD2	2.15	0.47
16:AP:43:LYS:HE3	16:AP:48:TRP:CE3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:23:LYS:HD2	18:AR:58:LEU:HA	1.96	0.47
22:AV:51:G:H2'	22:AV:52:C:H6	1.78	0.47
23:AW:42:C:C2'	23:AW:43:G:C5'	2.89	0.47
28:B3:7:LYS:HD2	28:B3:34:GLU:OE2	2.14	0.47
33:B8:13:ARG:HD2	47:BP:61:ARG:NH1	2.30	0.47
35:BA:889:C:H1'	35:BA:890:A:O4'	2.14	0.47
35:BA:1043:C:O2'	35:BA:1044:G:H5'	2.14	0.47
35:BA:1162:G:H4'	53:BV:24:LYS:HB2	1.96	0.47
35:BA:1498:C:O4'	35:BA:1577:C:H4'	2.14	0.47
35:BA:1817:G:C2'	35:BA:1818:U:H5'	2.44	0.47
35:BA:2406:U:O4	47:BP:70:GLN:HB3	2.13	0.47
35:BA:2713:A:C3'	35:BA:2714:G:C5'	2.93	0.47
35:BA:2847:U:OP1	51:BT:98:LYS:HD3	2.13	0.47
36:BB:45:A:H2'	36:BB:45:A:N3	2.29	0.47
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.15	0.47
39:BE:14:ILE:HG12	39:BE:21:VAL:HG22	1.96	0.47
41:BG:41:GLN:OE1	41:BG:153:ARG:HG3	2.15	0.47
41:BG:57:ALA:C	41:BG:59:GLU:N	2.72	0.47
42:BH:11:VAL:HG12	42:BH:15:VAL:HG23	1.94	0.47
44:BJ:118:UNK:O	44:BJ:119:UNK:CB	2.62	0.47
46:BO:17:ARG:HB2	46:BO:45:GLU:O	2.14	0.47
47:BP:46:LYS:HB3	47:BP:52:GLU:HG2	1.96	0.47
48:BQ:28:ALA:O	48:BQ:29:PHE:HD1	1.97	0.47
49:BR:28:LEU:C	49:BR:28:LEU:HD13	2.39	0.47
50:BS:17:ARG:C	50:BS:19:LYS:H	2.21	0.47
51:BT:28:VAL:CG2	51:BT:47:GLY:N	2.69	0.47
52:BU:74:LEU:CD2	52:BU:79:PHE:HB2	2.44	0.47
52:BU:91:ASP:O	52:BU:95:LEU:HB2	2.15	0.47
53:BV:6:LYS:O	53:BV:37:VAL:HG21	2.15	0.47
56:BY:32:PRO:C	56:BY:35:TYR:H	2.21	0.47
1:CA:374:A:C6	1:CA:375:U:C4	3.02	0.47
1:CA:828:A:H5"	1:CA:859:A:N1	2.30	0.47
1:CA:1106:G:H5"	3:CC:172:ARG:HD3	1.97	0.47
1:CA:1436:U:H2'	1:CA:1437:C:C6	2.49	0.47
1:CA:1519:A:C2'	1:CA:1520:G:H5'	2.44	0.47
3:CC:84:ILE:HD11	3:CC:88:ARG:HH21	1.79	0.47
3:CC:127:ARG:HG2	3:CC:127:ARG:NH1	2.27	0.47
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.49	0.47
9:CI:5:TYR:HD2	9:CI:18:PHE:HE1	1.62	0.47
12:CL:40:VAL:HG22	12:CL:78:GLN:O	2.15	0.47
17:CQ:59:ILE:HG21	17:CQ:71:PHE:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:15:G:H22	23:CW:23:A:C1'	2.20	0.47
23:CW:35:U:C4	23:CW:37:A:H5"	2.49	0.47
23:CW:40:A:N1	23:CW:41:C:H2'	2.29	0.47
22:CY:52:C:N3	22:CY:53:U:C4	2.83	0.47
27:D2:24:LEU:O	27:D2:28:LYS:HG2	2.15	0.47
31:D6:15:GLU:CD	31:D6:44:ARG:HH12	2.21	0.47
32:D7:5:TRP:CD1	32:D7:7:PRO:HD3	2.49	0.47
33:D8:21:LYS:HD3	33:D8:48:PHE:CZ	2.49	0.47
33:D8:50:LEU:CD1	33:D8:51:ALA:H	2.14	0.47
35:DA:554:U:O2'	35:DA:555:U:H5'	2.14	0.47
35:DA:635:C:O2'	35:DA:636:G:H5'	2.15	0.47
35:DA:654(Q):C:O2'	35:DA:654(R):C:H5'	2.14	0.47
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.78	0.47
35:DA:2299:G:N2	35:DA:2318:G:H1'	2.29	0.47
35:DA:2855:C:O2'	35:DA:2856:C:H5'	2.14	0.47
36:DB:29:A:H2'	36:DB:30:C:C6	2.50	0.47
36:DB:112:U:H2'	36:DB:113:G:H8	1.79	0.47
39:DE:23:VAL:CG1	39:DE:173:VAL:HG21	2.45	0.47
40:DF:116:ASP:OD2	47:DP:5:ASP:HB2	2.14	0.47
47:DP:45:LEU:CD2	47:DP:46:LYS:H	2.28	0.47
47:DP:88:LEU:C	47:DP:90:ARG:N	2.72	0.47
50:DS:98:VAL:HG12	50:DS:100:ALA:H	1.79	0.47
51:DT:31:SER:OG	51:DT:32:TYR:N	2.41	0.47
52:DU:113:ALA:C	52:DU:115:ALA:N	2.72	0.47
53:DV:66:ARG:N	53:DV:91:TYR:HE1	2.12	0.47
57:DZ:8:TYR:O	57:DZ:37:VAL:HB	2.14	0.47
57:DZ:27:VAL:O	57:DZ:88:PHE:HB2	2.13	0.47
57:DZ:129:SER:HB2	57:DZ:130:PRO:CD	2.44	0.47
57:DZ:151:HIS:HB2	57:DZ:168:GLU:O	2.13	0.47
1:AA:41:G:H2'	1:AA:42:G:H8	1.79	0.47
1:AA:677:U:O2'	1:AA:678:U:H5'	2.15	0.47
2:AB:27:LYS:HB2	2:AB:193:ASP:HB2	1.95	0.47
3:AC:103:VAL:HG12	3:AC:104:GLN:H	1.77	0.47
4:AD:47:ARG:HH21	4:AD:49:ARG:HH22	1.63	0.47
4:AD:152:SER:O	4:AD:153:ARG:C	2.57	0.47
6:AF:9:VAL:HA	6:AF:59:TYR:O	2.14	0.47
8:AH:6:ILE:HB	8:AH:85:ARG:NH2	2.30	0.47
9:AI:99:LEU:HD12	9:AI:101:PHE:HE1	1.80	0.47
22:AV:51:G:H1	22:AV:67:C:N4	2.12	0.47
22:AV:53:U:C1'	22:AV:66:G:N2	2.74	0.47
22:AV:76:C:H2'	22:AV:77:C:H5"	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:14:A:H2'	23:AW:15:G:O4'	2.14	0.47
23:AW:71:G:C2	23:AW:72:C:C6	3.03	0.47
23:AW:73:C:C4	23:AW:74:C:H5	2.32	0.47
22:AY:37:A:H2'	22:AY:38:U:O4'	2.15	0.47
22:AY:53:U:N3	22:AY:54:G:N7	2.63	0.47
22:AY:56:U:OP1	48:BQ:56:ARG:CD	2.42	0.47
25:B0:43:THR:HG23	25:B0:43:THR:O	2.12	0.47
27:B2:16:LEU:HD22	27:B2:20:GLU:HB3	1.97	0.47
35:BA:53:A:H2'	35:BA:54:G:O4'	2.14	0.47
35:BA:286:C:O2'	35:BA:287:C:H5'	2.14	0.47
35:BA:364:C:H2'	35:BA:365:C:H5"	1.96	0.47
35:BA:1021:A:H8	35:BA:1022:G:H5"	1.80	0.47
35:BA:1054:A:H2'	35:BA:1107:G:C8	2.49	0.47
35:BA:1241:A:O2'	35:BA:1242:A:H5'	2.14	0.47
35:BA:1510:G:O2'	35:BA:1511:C:H5'	2.15	0.47
35:BA:1962:C:O2'	35:BA:1964:G:OP2	2.33	0.47
35:BA:2632:A:C2	39:BE:61:ARG:HD2	2.47	0.47
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.14	0.47
35:BA:2864:G:O2'	35:BA:2865:U:H5'	2.13	0.47
40:BF:16:GLY:O	40:BF:17:ARG:HG3	2.14	0.47
40:BF:22:ALA:C	40:BF:24:LEU:N	2.73	0.47
41:BG:145:THR:CG2	41:BG:148:MET:HB3	2.44	0.47
43:BI:81:VAL:HG21	43:BI:88:ILE:HD13	1.96	0.47
43:BI:101:LEU:HD23	43:BI:109:ILE:HG12	1.96	0.47
44:BJ:70:UNK:O	44:BJ:72:UNK:N	2.47	0.47
45:BN:58:ASP:O	45:BN:60:ILE:N	2.37	0.47
46:BO:114:ILE:H	46:BO:114:ILE:CD1	2.27	0.47
48:BQ:45:GLN:H	48:BQ:45:GLN:NE2	2.13	0.47
48:BQ:133:ARG:O	48:BQ:134:ARG:HG2	2.14	0.47
49:BR:88:ARG:HD2	49:BR:88:ARG:O	2.14	0.47
49:BR:104:ARG:HD2	49:BR:109:ALA:HB3	1.96	0.47
50:BS:103:GLU:O	50:BS:104:GLY:C	2.57	0.47
51:BT:3:ARG:CG	51:BT:3:ARG:HH11	2.27	0.47
52:BU:95:LEU:HD13	53:BV:11:GLN:HE21	1.80	0.47
53:BV:15:GLU:CB	53:BV:16:PRO:HD2	2.33	0.47
54:BW:9:TYR:H	54:BW:102:HIS:HD2	1.52	0.47
54:BW:46:PHE:O	54:BW:50:VAL:HG12	2.13	0.47
55:BX:29:TRP:CE3	55:BX:78:LYS:HB3	2.49	0.47
56:BY:8:LYS:N	56:BY:8:LYS:CD	2.78	0.47
57:BZ:80:ARG:HH11	57:BZ:80:ARG:HB3	1.79	0.47
1:CA:162:A:C6	1:CA:163:C:H1'	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:191:G:C1'	20:CT:105:SER:HB3	2.44	0.47
1:CA:232:G:H1'	1:CA:262:A:N1	2.29	0.47
1:CA:601:C:H2'	1:CA:602:A:C8	2.49	0.47
1:CA:660:G:H2'	1:CA:661:G:C8	2.49	0.47
1:CA:689:C:H2'	1:CA:690:G:O4'	2.14	0.47
1:CA:973:G:OP1	10:CJ:57:LYS:HD3	2.15	0.47
1:CA:1021:G:N2	1:CA:1022:G:H1'	2.30	0.47
1:CA:1087:G:H22	1:CA:1099:G:H1'	1.78	0.47
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	2.13	0.47
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.95	0.47
8:CH:64:LYS:CG	8:CH:79:VAL:HG21	2.45	0.47
10:CJ:98:ILE:HD12	10:CJ:98:ILE:N	2.28	0.47
11:CK:54:ARG:CZ	23:CW:42:C:OP1	2.63	0.47
12:CL:84:LEU:CD1	12:CL:104:VAL:HG11	2.44	0.47
12:CL:109:GLY:HA3	12:CL:121:GLY:O	2.14	0.47
13:CM:19:LEU:O	13:CM:22:ILE:HD13	2.15	0.47
13:CM:33:ALA:HA	13:CM:59:TYR:CE2	2.49	0.47
13:CM:117:VAL:O	13:CM:118:ALA:HB2	2.14	0.47
15:CO:33:THR:HG21	15:CO:85:LEU:CD2	2.38	0.47
16:CP:58:TYR:O	16:CP:62:VAL:HG22	2.15	0.47
17:CQ:9:VAL:HG11	17:CQ:84:LEU:HD13	1.96	0.47
22:CV:15:G:H2'	22:CV:16:U:C5	2.48	0.47
23:CW:57:U:H1'	23:CW:59:G:N7	2.30	0.47
22:CY:4:C:N3	22:CY:72:C:C5	2.81	0.47
26:D1:66:HIS:C	26:D1:68:PRO:HD2	2.39	0.47
35:DA:1010:A:N3	35:DA:1153:C:H1'	2.29	0.47
35:DA:1244:G:O2'	35:DA:1245:G:H5'	2.15	0.47
35:DA:1252:G:N7	52:DU:36:ARG:NH1	2.60	0.47
35:DA:1491:G:O2'	38:DD:101:GLU:HB2	2.14	0.47
35:DA:2161:C:H2'	35:DA:2162:G:H8	1.80	0.47
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.29	0.47
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.49	0.47
35:DA:2320:A:N3	35:DA:2320:A:H2'	2.29	0.47
35:DA:2340:G:O2'	35:DA:2341:G:H5'	2.14	0.47
35:DA:2515:C:O2'	35:DA:2516:G:H5'	2.15	0.47
35:DA:2580:U:H5'	39:DE:131:ALA:CB	2.40	0.47
35:DA:2892:A:H62	35:DA:2893:G:H21	1.62	0.47
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	1.95	0.47
42:DH:41:MET:CE	42:DH:42:ARG:N	2.77	0.47
45:DN:30:ILE:O	45:DN:34:LEU:HD22	2.15	0.47
48:DQ:67:ARG:HB3	48:DQ:102:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:38:ASN:ND2	51:DT:38:ASN:O	2.47	0.47
53:DV:19:LYS:CE	53:DV:20:LEU:H	2.27	0.47
54:DW:20:VAL:HG23	54:DW:21:VAL:N	2.29	0.47
56:DY:8:LYS:HE3	56:DY:74:PRO:HD3	1.97	0.47
1:AA:155:C:H2'	1:AA:156:G:H8	1.75	0.47
1:AA:345:C:H3'	51:BT:41:ARG:CZ	2.44	0.47
1:AA:398:C:H2'	1:AA:399:G:H8	1.80	0.47
1:AA:541:G:H2'	1:AA:542:G:H8	1.80	0.47
1:AA:851:G:H2'	1:AA:852:G:H8	1.79	0.47
1:AA:1021:G:N2	1:AA:1022:G:H1'	2.30	0.47
1:AA:1053:G:N7	1:AA:1200:C:C5'	2.76	0.47
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.45	0.47
2:AB:9:GLU:OE1	2:AB:10:LEU:N	2.48	0.47
2:AB:53:ARG:NH1	2:AB:199:TYR:CD2	2.82	0.47
3:AC:125:GLU:HG2	3:AC:190:ARG:O	2.15	0.47
4:AD:52:SER:O	4:AD:53:ASP:C	2.56	0.47
4:AD:152:SER:CA	4:AD:155:LEU:HG	2.44	0.47
7:AG:76:ARG:HH11	7:AG:76:ARG:HG2	1.79	0.47
9:AI:26:VAL:CG2	9:AI:61:ALA:HB3	2.40	0.47
9:AI:38:GLN:C	9:AI:38:GLN:OE1	2.58	0.47
9:AI:100:GLY:C	9:AI:102:LEU:N	2.71	0.47
10:AJ:3:LYS:HD2	10:AJ:77:PRO:HD3	1.97	0.47
15:AO:17:ARG:HD3	15:AO:26:GLU:OE1	2.15	0.47
17:AQ:51:TYR:CD2	17:AQ:57:VAL:HG11	2.50	0.47
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	2.30	0.47
20:AT:10:LEU:C	20:AT:12:ALA:H	2.23	0.47
22:AV:9:A:C6	22:AV:48:G:C2	3.03	0.47
22:AV:76:C:C2'	22:AV:77:C:C5'	2.92	0.47
23:AW:35:U:H3	23:AW:37:A:H8	1.62	0.47
22:AY:3:G:H2'	22:AY:4:C:H5"	1.97	0.47
26:B1:53:VAL:O	26:B1:54:ALA:HB3	2.14	0.47
28:B3:8:LEU:HD12	28:B3:30:ARG:O	2.15	0.47
33:B8:7:HIS:CD2	47:BP:50:ARG:HD3	2.49	0.47
35:BA:332:A:O2'	35:BA:334:C:OP2	2.19	0.47
35:BA:551:G:O2'	35:BA:1220:A:N3	2.43	0.47
35:BA:860:U:C5	35:BA:917:A:N7	2.82	0.47
35:BA:1021:A:H8	35:BA:1021:A:H3'	1.80	0.47
35:BA:2086:U:OP1	38:BD:262:ARG:HD3	2.13	0.47
35:BA:2116:G:N7	35:BA:2117:A:C2	2.82	0.47
35:BA:2801(A):A:H4'	35:BA:2802:G:H2'	1.96	0.47
36:BB:48:A:H4'	50:BS:95:HIS:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:98:PRO:HD3	39:BE:175:VAL:CG1	2.44	0.47
41:BG:16:ARG:NE	41:BG:31:VAL:HG11	2.28	0.47
42:BH:41:MET:CE	42:BH:42:ARG:H	2.27	0.47
43:BI:40:THR:O	43:BI:44:LEU:N	2.42	0.47
43:BI:83:ALA:HA	43:BI:88:ILE:HG23	1.95	0.47
47:BP:62:LEU:HG	47:BP:63:PRO:HD2	1.97	0.47
47:BP:108:LYS:O	47:BP:110:TYR:N	2.47	0.47
53:BV:52:VAL:CG1	53:BV:55:ALA:HB3	2.40	0.47
54:BW:20:VAL:HG23	54:BW:47:VAL:HG21	1.95	0.47
55:BX:12:VAL:HG22	55:BX:27:THR:O	2.13	0.47
55:BX:64:LYS:NZ	55:BX:73:ARG:HE	2.11	0.47
56:BY:2:ARG:CZ	56:BY:3:VAL:HG23	2.45	0.47
1:CA:252:U:C4	1:CA:253:U:O4	2.68	0.47
1:CA:452:A:H4'	16:CP:72:ARG:NH1	2.29	0.47
1:CA:1033:G:H2'	1:CA:1034:G:C5'	2.43	0.47
1:CA:1319:A:N6	1:CA:1361:G:H21	2.11	0.47
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.22	0.47
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.26	0.47
3:CC:57:ILE:CG2	3:CC:58:GLU:N	2.77	0.47
3:CC:99:VAL:O	3:CC:99:VAL:HG23	2.14	0.47
3:CC:103:VAL:HG12	3:CC:104:GLN:H	1.78	0.47
4:CD:73:ARG:HG3	4:CD:77:ASN:HD21	1.79	0.47
9:CI:37:PHE:HB3	9:CI:43:ALA:CB	2.45	0.47
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.41	0.47
11:CK:21:ILE:HB	11:CK:84:VAL:HA	1.97	0.47
13:CM:89:GLY:CA	13:CM:93:ARG:HH11	2.28	0.47
15:CO:17:ARG:HD3	15:CO:26:GLU:OE1	2.15	0.47
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.57	0.47
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	2.30	0.47
20:CT:10:LEU:C	20:CT:12:ALA:H	2.23	0.47
22:CV:7:U:O4	22:CV:69:G:C6	2.68	0.47
22:CV:27:C:C6	22:CV:27:C:H3'	2.49	0.47
23:CW:20:G:OP1	23:CW:21:U:C5	2.67	0.47
30:D5:4:HIS:CD2	35:DA:2056:G:H1	2.31	0.47
33:D8:32:LEU:HB3	33:D8:36:LYS:NZ	2.29	0.47
35:DA:1291:C:H5'	35:DA:1534:U:O2'	2.15	0.47
35:DA:1945:G:H2'	35:DA:1946:U:H6	1.80	0.47
35:DA:2604:U:O2'	35:DA:2605:U:H5'	2.15	0.47
36:DB:42:C:O2'	41:DG:66:GLN:NE2	2.48	0.47
39:DE:98:PRO:HD3	39:DE:175:VAL:CG1	2.45	0.47
40:DF:132:VAL:O	40:DF:133:ASN:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:13:GLU:O	41:DG:17:PRO:HG3	2.14	0.47
41:DG:159:VAL:HG13	41:DG:159:VAL:O	2.14	0.47
42:DH:41:MET:CE	42:DH:42:ARG:H	2.28	0.47
43:DI:93:THR:HG23	43:DI:119:PRO:CB	2.43	0.47
43:DI:119:PRO:O	43:DI:121:LYS:N	2.48	0.47
46:DO:22:ILE:HG12	46:DO:41:ALA:HA	1.96	0.47
47:DP:18:ARG:HH11	47:DP:18:ARG:CB	2.28	0.47
51:DT:32:TYR:O	51:DT:33:LYS:O	2.33	0.47
52:DU:90:VAL:HG11	53:DV:39:LEU:HB2	1.96	0.47
1:AA:115:G:H1'	1:AA:116:A:N7	2.30	0.47
1:AA:262:A:H2'	1:AA:263:A:C8	2.49	0.47
1:AA:377:G:C2	1:AA:387:U:O2	2.68	0.47
1:AA:475:G:C2'	1:AA:476:G:H8	2.25	0.47
1:AA:1064:G:O4'	1:AA:1066:C:H1'	2.14	0.47
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.13	0.47
1:AA:1226:C:OP1	19:AS:81:ARG:NH2	2.48	0.47
1:AA:1306:A:H1'	1:AA:1332:A:C2	2.50	0.47
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.95	0.47
2:AB:84:GLU:CB	2:AB:219:VAL:HG21	2.31	0.47
3:AC:138:VAL:HG22	3:AC:151:VAL:CG2	2.44	0.47
5:AE:62:ALA:C	5:AE:64:ARG:H	2.23	0.47
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.41	0.47
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.30	0.47
11:AK:74:ALA:C	11:AK:76:GLY:N	2.65	0.47
12:AL:53:ARG:HG2	12:AL:93:LEU:HD11	1.97	0.47
12:AL:86:ARG:N	12:AL:99:HIS:O	2.48	0.47
13:AM:93:ARG:HG3	35:BA:888:C:OP1	2.15	0.47
14:AN:23:ARG:HD2	14:AN:28:GLY:C	2.40	0.47
20:AT:32:ALA:O	20:AT:36:LEU:HD23	2.14	0.47
22:AV:43:G:C2	22:AV:44:A:C4	3.03	0.47
23:AW:3:G:O6	23:AW:4:C:N4	2.48	0.47
23:AW:10:G:O6	23:AW:28:G:C8	2.68	0.47
23:AW:74:C:O2	23:AW:75:A:C1'	2.63	0.47
22:AY:5:C:H2'	22:AY:6:C:C6	2.49	0.47
22:AY:28:G:H3'	22:AY:29:A:N7	2.29	0.47
22:AY:67:C:H5"	22:AY:67:C:H6	1.79	0.47
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.79	0.47
35:BA:84:A:N1	35:BA:98:G:O2'	2.40	0.47
35:BA:402:A:C2'	35:BA:403:U:H5'	2.45	0.47
35:BA:856:C:H2'	35:BA:856:C:O2	2.14	0.47
35:BA:870:A:C2	35:BA:908:C:N3	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.78	0.47
35:BA:1484:G:N2	35:BA:1505:C:H42	2.12	0.47
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.45	0.47
35:BA:1773:A:C2'	35:BA:1774:C:H5'	2.45	0.47
35:BA:2134:A:C2	35:BA:2159:G:H1'	2.50	0.47
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.79	0.47
35:BA:2236:C:C2'	35:BA:2237:G:H5'	2.44	0.47
35:BA:2567:G:H2'	35:BA:2568:C:C6	2.50	0.47
35:BA:2712:U:O2'	35:BA:2712(A):A:P	2.73	0.47
35:BA:2777:G:C5'	35:BA:2778:A:H5'	2.44	0.47
35:BA:2801(A):A:H5'	35:BA:2802:G:C8	2.50	0.47
36:BB:112:U:H2'	36:BB:113:G:H8	1.78	0.47
38:BD:173:VAL:HG22	38:BD:174:ILE:N	2.30	0.47
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	2.15	0.47
40:BF:133:ASN:HD22	40:BF:133:ASN:N	2.06	0.47
41:BG:9:ARG:O	41:BG:13:GLU:HG2	2.15	0.47
47:BP:65:ARG:HG3	47:BP:65:ARG:NH1	2.29	0.47
47:BP:127:ALA:HB3	47:BP:130:PHE:CE1	2.50	0.47
50:BS:67:ARG:HH11	50:BS:67:ARG:CB	2.18	0.47
51:BT:28:VAL:CG1	51:BT:46:GLU:HA	2.42	0.47
53:BV:49:THR:CB	53:BV:50:PRO:CD	2.91	0.47
55:BX:18:TYR:C	55:BX:20:GLY:N	2.73	0.47
56:BY:2:ARG:HD3	56:BY:3:VAL:N	2.29	0.47
56:BY:8:LYS:HE3	56:BY:74:PRO:HD3	1.97	0.47
57:BZ:24:LEU:HD12	57:BZ:41:LEU:CD2	2.45	0.47
1:CA:72:C:H2'	1:CA:73:G:H8	1.78	0.47
1:CA:105:G:H2'	1:CA:106:C:H6	1.78	0.47
1:CA:352:C:H4'	1:CA:354:G:OP1	2.15	0.47
1:CA:386:C:C2'	1:CA:387:U:H5'	2.44	0.47
1:CA:398:C:H2'	1:CA:399:G:H8	1.80	0.47
1:CA:447:G:H2'	1:CA:485:G:H22	1.70	0.47
1:CA:541:G:H2'	1:CA:542:G:H8	1.78	0.47
1:CA:677:U:H3	1:CA:714:G:H22	1.62	0.47
1:CA:914:A:O2'	1:CA:915:A:H5'	2.15	0.47
1:CA:977:A:H2'	1:CA:978:A:H5'	1.97	0.47
1:CA:983:A:HO2'	1:CA:1049:U:HO2'	1.56	0.47
1:CA:1030(C):G:H2'	1:CA:1030(D):A:C8	2.50	0.47
1:CA:1182:G:H4'	1:CA:1184:G:OP2	2.15	0.47
1:CA:1190:G:OP2	3:CC:5:ILE:HG23	2.14	0.47
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.44	0.47
1:CA:1197:G:O2'	1:CA:1198:G:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.97	0.47
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.14	0.47
1:CA:1526:G:H2'	1:CA:1527:C:C6	2.48	0.47
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.34	0.47
2:CB:174:VAL:O	2:CB:178:ARG:HB2	2.14	0.47
3:CC:18:TRP:CE3	3:CC:18:TRP:N	2.76	0.47
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.38	0.47
4:CD:149:ALA:HB3	4:CD:152:SER:OG	2.15	0.47
5:CE:33:VAL:HG21	5:CE:109:ILE:HG12	1.97	0.47
5:CE:67:VAL:HG22	5:CE:68:GLU:N	2.30	0.47
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.29	0.47
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.96	0.47
11:CK:21:ILE:CD1	11:CK:82:VAL:HG13	2.45	0.47
12:CL:39:VAL:HG12	12:CL:40:VAL:H	1.79	0.47
13:CM:5:ALA:CB	13:CM:66:LEU:HD13	2.44	0.47
16:CP:43:LYS:C	16:CP:45:THR:N	2.70	0.47
17:CQ:7:THR:HG22	17:CQ:58:GLU:HG2	1.97	0.47
22:CV:10:G:H2'	22:CV:11:C:C6	2.49	0.47
22:CV:20:G:C8	22:CV:59:G:N2	2.83	0.47
23:CW:15:G:C8	23:CW:61:A:C2	3.03	0.47
23:CW:45:U:H2'	23:CW:46:U:O4'	2.15	0.47
22:CY:19:G:C6	22:CY:59:G:C6	3.03	0.47
22:CY:57:U:P	57:DZ:182:LYS:O	2.72	0.47
25:D0:23:VAL:HG13	25:D0:38:VAL:HG22	1.96	0.47
27:D2:65:ASN:HB3	27:D2:69:ARG:NH1	2.18	0.47
28:D3:7:LYS:C	28:D3:54:VAL:HG13	2.39	0.47
30:D5:3:LYS:HG2	35:DA:2015:A:H2	1.78	0.47
31:D6:35:GLU:O	31:D6:36:LEU:HB2	2.13	0.47
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.44	0.47
35:DA:292:C:O2'	35:DA:293:U:H5'	2.15	0.47
35:DA:646:A:H2'	35:DA:647:G:O4'	2.14	0.47
35:DA:758:C:O2	35:DA:1981:A:H2	1.97	0.47
35:DA:887:A:O2'	35:DA:888:C:H6	1.98	0.47
35:DA:917:A:N1	36:DB:80:U:H4'	2.29	0.47
35:DA:956:G:OP2	48:DQ:14:ARG:NH2	2.47	0.47
35:DA:1368:G:C2	35:DA:1369:G:C8	3.02	0.47
35:DA:1541:G:C5'	35:DA:1542:A:O4'	2.63	0.47
35:DA:1816:G:C8	38:DD:62:TYR:CZ	3.02	0.47
35:DA:1916:A:H5'	35:DA:1916:A:C8	2.48	0.47
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.45	0.47
35:DA:2134:A:H61	35:DA:2157:G:C1'	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.50	0.47
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.49	0.47
35:DA:2502:G:H5"	35:DA:2503:A:H5"	1.96	0.47
35:DA:2682:U:O4	35:DA:2728:U:H1'	2.14	0.47
35:DA:2743:C:H2'	35:DA:2744:G:O4'	2.15	0.47
35:DA:2801(A):A:H5'	35:DA:2802:G:C8	2.50	0.47
35:DA:2847:U:OP1	51:DT:98:LYS:HD3	2.14	0.47
35:DA:2864:G:OP1	51:DT:119:LYS:HD2	2.15	0.47
38:DD:8:PRO:C	38:DD:10:THR:H	2.23	0.47
38:DD:30:GLU:CG	38:DD:63:ARG:NH2	2.78	0.47
39:DE:63:LEU:O	39:DE:65:GLY:N	2.48	0.47
39:DE:89:ASP:O	39:DE:90:THR:C	2.57	0.47
39:DE:199:ARG:HH12	39:DE:202:LYS:HE2	1.80	0.47
40:DF:125:LEU:HD12	40:DF:196:LEU:HG	1.96	0.47
43:DI:68:LEU:CD2	43:DI:72:LEU:HD11	2.44	0.47
43:DI:77:LEU:HD22	43:DI:140:LEU:CA	2.38	0.47
43:DI:129:THR:HG23	43:DI:136:VAL:O	2.15	0.47
45:DN:1:MET:H3	53:DV:20:LEU:HD21	1.79	0.47
46:DO:79:PHE:CD2	51:DT:72:VAL:HG13	2.50	0.47
47:DP:7:ARG:H	47:DP:8:PRO:HD2	1.79	0.47
48:DQ:110:THR:OG1	48:DQ:112:GLU:HB3	2.15	0.47
49:DR:37:THR:HA	49:DR:111:LEU:HD23	1.96	0.47
50:DS:25:ARG:HH11	50:DS:25:ARG:CB	2.27	0.47
50:DS:89:ARG:HB3	50:DS:92:TYR:CB	2.45	0.47
51:DT:28:VAL:CB	51:DT:88:ILE:HG12	2.35	0.47
52:DU:91:ASP:O	52:DU:92:ARG:C	2.57	0.47
53:DV:47:VAL:C	53:DV:49:THR:N	2.73	0.47
55:DX:18:TYR:O	55:DX:20:GLY:N	2.48	0.47
56:DY:55:TYR:O	56:DY:56:PRO:C	2.58	0.47
1:AA:393:A:H2'	1:AA:394:G:H8	1.79	0.47
1:AA:677:U:H3	1:AA:714:G:H22	1.63	0.47
1:AA:781:A:H2'	1:AA:782:A:H5'	1.96	0.47
1:AA:921:U:O2'	5:AE:19:MET:O	2.30	0.47
1:AA:963:G:H21	10:AJ:55:LYS:CE	2.28	0.47
1:AA:1087:G:H22	1:AA:1099:G:H1'	1.79	0.47
1:AA:1256:A:H5'	1:AA:1257:U:OP1	2.15	0.47
1:AA:1319:A:N6	1:AA:1361:G:H21	2.13	0.47
2:AB:97:TRP:CE2	2:AB:101:MET:HG3	2.49	0.47
4:AD:6:GLY:O	4:AD:7:PRO:C	2.58	0.47
4:AD:39:PRO:HB2	4:AD:44:GLY:HA2	1.97	0.47
4:AD:73:ARG:HG3	4:AD:77:ASN:HD21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.29	0.47
7:AG:137:LYS:O	7:AG:141:VAL:HG23	2.14	0.47
22:AV:8:U:C4	22:AV:13:U:C4	3.03	0.47
35:BA:544:G:C2	35:BA:547:A:H5'	2.49	0.47
35:BA:825:C:O2'	35:BA:826:U:H5'	2.14	0.47
35:BA:829:A:N7	35:BA:2247:A:O2'	2.43	0.47
35:BA:956:G:OP2	48:BQ:14:ARG:NH2	2.48	0.47
35:BA:1756:G:H4'	35:BA:1758:G:O4'	2.14	0.47
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.15	0.47
35:BA:2094:G:OP1	43:BI:22:LYS:HD2	2.14	0.47
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.77	0.47
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.45	0.47
35:BA:2346:A:H5'	35:BA:2383:G:C1'	2.45	0.47
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.15	0.47
35:BA:2762:G:H2'	35:BA:2763:G:C5'	2.45	0.47
38:BD:10:THR:O	38:BD:13:ARG:HB3	2.14	0.47
41:BG:9:ARG:C	41:BG:11:TYR:H	2.21	0.47
42:BH:14:GLY:O	42:BH:29:PRO:HD3	2.14	0.47
42:BH:82:GLY:O	42:BH:83:TYR:O	2.33	0.47
43:BI:129:THR:HG23	43:BI:136:VAL:O	2.15	0.47
49:BR:17:ARG:HG2	49:BR:17:ARG:O	2.14	0.47
51:BT:65:LYS:HZ1	51:BT:66:VAL:H	1.63	0.47
53:BV:51:VAL:CG1	53:BV:52:VAL:H	2.24	0.47
54:BW:60:ASN:OD1	54:BW:61:ASN:ND2	2.48	0.47
56:BY:95:LYS:HD3	56:BY:100:ALA:HB1	1.97	0.47
56:BY:97:ARG:C	56:BY:99:CYS:H	2.23	0.47
57:BZ:103:ARG:HH11	57:BZ:103:ARG:CB	2.27	0.47
1:CA:232:G:H2'	1:CA:233:C:C6	2.50	0.47
1:CA:523:A:H61	12:CL:92:ASP:CB	2.28	0.47
1:CA:619:U:N3	4:CD:135:LEU:HD11	2.30	0.47
1:CA:851:G:H2'	1:CA:852:G:H8	1.79	0.47
1:CA:1259:C:H42	1:CA:1276:G:H1	1.63	0.47
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.15	0.47
1:CA:1339:A:C2	22:CV:33:G:O4'	2.68	0.47
1:CA:1492:A:C2	1:CA:1493:A:C2	3.02	0.47
2:CB:137:ARG:NH1	2:CB:138:LEU:HD23	2.29	0.47
2:CB:145:LEU:O	2:CB:149:LEU:HB2	2.15	0.47
3:CC:138:VAL:HG22	3:CC:151:VAL:CG2	2.44	0.47
5:CE:41:VAL:HG11	5:CE:113:ALA:HA	1.97	0.47
11:CK:15:ALA:HB1	11:CK:78:GLN:HE21	1.79	0.47
16:CP:14:ASN:OD1	16:CP:42:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:9:VAL:O	17:CQ:9:VAL:HG23	2.15	0.47
22:CY:11:C:H41	22:CY:47:G:H21	1.61	0.47
26:D1:57:GLU:O	26:D1:58:ILE:HG12	2.15	0.47
34:D9:1:MET:HE1	34:D9:32:HIS:CD2	2.50	0.47
35:DA:236:C:H2'	35:DA:237:C:C6	2.50	0.47
35:DA:1130:U:O2	39:DE:149:ARG:NH2	2.47	0.47
35:DA:2062:A:O2'	35:DA:2063:C:OP1	2.32	0.47
35:DA:2543:G:O2'	35:DA:2544:G:H5'	2.14	0.47
35:DA:2701:C:H2'	35:DA:2702:U:H2'	1.96	0.47
35:DA:2801(A):A:H4'	35:DA:2802:G:H2'	1.97	0.47
38:DD:44:ASN:OD1	38:DD:44:ASN:N	2.45	0.47
38:DD:209:ALA:O	38:DD:212:SER:HB3	2.14	0.47
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.97	0.47
40:DF:46:ARG:HG3	40:DF:46:ARG:NH1	2.29	0.47
46:DO:10:VAL:HG22	46:DO:17:ARG:O	2.14	0.47
48:DQ:57:HIS:CD2	48:DQ:116:GLU:HG3	2.50	0.47
48:DQ:84:GLY:O	48:DQ:85:LYS:HB2	2.13	0.47
49:DR:10:LEU:HD23	49:DR:21:TYR:OH	2.15	0.47
49:DR:45:ARG:O	49:DR:48:VAL:HG12	2.14	0.47
50:DS:20:ARG:NE	50:DS:20:ARG:CA	2.77	0.47
50:DS:73:LEU:HD23	50:DS:73:LEU:O	2.15	0.47
50:DS:93:LYS:O	50:DS:94:TYR:C	2.56	0.47
51:DT:91:ARG:HG2	51:DT:116:ALA:CB	2.44	0.47
51:DT:127:ALA:C	51:DT:129:ARG:N	2.73	0.47
53:DV:99:ILE:HD13	53:DV:99:ILE:N	2.29	0.47
56:DY:25:GLY:HA3	56:DY:39:VAL:CG1	2.45	0.47
57:DZ:27:VAL:O	57:DZ:88:PHE:N	2.48	0.47
1:AA:47:C:O2	1:AA:49:U:C4	2.68	0.47
2:AB:61:LEU:HD21	2:AB:161:ALA:HB2	1.96	0.47
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.23	0.47
3:AC:17:ASP:O	3:AC:18:TRP:C	2.57	0.47
4:AD:122:ARG:HH12	4:AD:135:LEU:CD1	2.26	0.47
6:AF:63:TYR:HD1	6:AF:63:TYR:N	2.13	0.47
6:AF:100:ASN:ND2	18:AR:23:LYS:NZ	2.63	0.47
7:AG:54:THR:C	7:AG:56:GLN:H	2.23	0.47
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.15	0.47
16:AP:58:TYR:C	16:AP:58:TYR:CD1	2.93	0.47
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.96	0.47
21:AU:2:GLY:C	21:AU:4:GLY:N	2.65	0.47
22:AV:30:U:N3	22:AV:31:C:C4	2.83	0.47
23:AW:11:C:H3'	23:AW:12:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:48:G:O5'	23:AW:49:G:OP2	2.33	0.47
22:AY:20:G:O6	35:BA:898:C:H5'	2.15	0.47
27:B2:69:ARG:HB2	27:B2:70:GLN:OE1	2.15	0.47
29:B4:8:LYS:O	29:B4:9:LEU:CB	2.63	0.47
35:BA:365:C:H5'	35:BA:365:C:C6	2.40	0.47
35:BA:557:U:H2'	35:BA:558:G:C8	2.48	0.47
35:BA:705:A:H1'	38:BD:9:TYR:CE2	2.49	0.47
35:BA:833:U:H2'	35:BA:834:C:C6	2.50	0.47
35:BA:1138:G:H2'	35:BA:1139:G:O4'	2.14	0.47
35:BA:1798:U:H5'	38:BD:259:THR:CG2	2.32	0.47
35:BA:1917:U:O2'	35:BA:1918:A:H5'	2.15	0.47
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.50	0.47
36:BB:103:G:O2'	36:BB:104:U:H5'	2.15	0.47
37:BC:52:PRO:HG2	37:BC:53:ARG:HH11	1.79	0.47
38:BD:148:GLU:CD	38:BD:151:LYS:HZ2	2.21	0.47
41:BG:46:ALA:HB2	41:BG:88:ILE:HG12	1.97	0.47
41:BG:170:ARG:NH1	41:BG:174:GLU:OE1	2.46	0.47
42:BH:159:GLU:OE1	42:BH:159:GLU:HA	2.14	0.47
42:BH:163:TYR:N	42:BH:163:TYR:CD1	2.83	0.47
43:BI:116:LEU:HD12	43:BI:117:GLU:H	1.80	0.47
44:BJ:124:UNK:O	44:BJ:125:UNK:C	2.62	0.47
47:BP:25:SER:O	47:BP:30:THR:HG23	2.15	0.47
47:BP:101:VAL:HG12	47:BP:107:LYS:N	2.30	0.47
51:BT:7:ILE:O	51:BT:10:VAL:HB	2.15	0.47
51:BT:53:ARG:O	51:BT:53:ARG:HG3	2.15	0.47
57:BZ:7:ALA:C	57:BZ:8:TYR:CD1	2.93	0.47
1:CA:202:U:H3'	1:CA:203:U:C6	2.50	0.47
1:CA:401:C:OP2	4:CD:73:ARG:NH2	2.48	0.47
1:CA:600:C:H2'	1:CA:601:C:H6	1.80	0.47
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.15	0.47
1:CA:1431:C:H2'	1:CA:1432:G:H5'	1.96	0.47
1:CA:1501:C:H3'	1:CA:1502:A:C5'	2.45	0.47
2:CB:83:MET:HG3	2:CB:234:PRO:HG2	1.96	0.47
3:CC:181:ASN:HD22	3:CC:205:GLY:H	1.57	0.47
4:CD:47:ARG:HH21	4:CD:49:ARG:HH22	1.63	0.47
5:CE:76:ILE:HD11	5:CE:142:LEU:CD2	2.45	0.47
9:CI:7:THR:HB	9:CI:83:ARG:NH1	2.26	0.47
9:CI:112:LYS:C	9:CI:112:LYS:HD3	2.40	0.47
10:CJ:33:GLN:O	10:CJ:75:ILE:HG23	2.15	0.47
10:CJ:50:ILE:CD1	14:CN:41:ARG:HD3	2.44	0.47
12:CL:37:CYS:CA	12:CL:58:VAL:HG22	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:12:ARG:CB	14:CN:12:ARG:NH1	2.78	0.47
16:CP:18:ARG:CG	16:CP:35:LYS:HE3	2.44	0.47
17:CQ:51:TYR:CD2	17:CQ:57:VAL:HG11	2.49	0.47
17:CQ:60:ILE:O	17:CQ:61:GLU:C	2.57	0.47
17:CQ:90:ILE:O	17:CQ:94:ASN:ND2	2.48	0.47
18:CR:66:LEU:HD11	18:CR:70:ILE:HD11	1.97	0.47
19:CS:79:THR:O	19:CS:80:TYR:HB3	2.15	0.47
23:CW:26:G:H2'	23:CW:27:C:N1	2.29	0.47
27:D2:10:LEU:O	27:D2:13:ALA:N	2.48	0.47
27:D2:46:GLN:HG2	27:D2:49:LYS:HZ1	1.79	0.47
28:D3:10:LYS:HD3	28:D3:53:LEU:HD23	1.96	0.47
29:D4:32:TYR:N	29:D4:32:TYR:CD1	2.83	0.47
30:D5:16:ARG:HG2	30:D5:16:ARG:NH1	2.30	0.47
33:D8:48:PHE:O	33:D8:49:VAL:CG2	2.59	0.47
35:DA:71:A:H5"	35:DA:73:A:C8	2.50	0.47
35:DA:587:C:C6	47:DP:33:ARG:HD3	2.49	0.47
35:DA:644:A:C2	35:DA:2369:A:H1'	2.50	0.47
35:DA:1009:A:O4'	52:DU:59:ARG:HD3	2.15	0.47
35:DA:1459:G:C8	35:DA:1461:G:H1'	2.50	0.47
35:DA:1754:C:OP1	51:DT:96:ARG:NH1	2.48	0.47
35:DA:1916:A:H2'	35:DA:1917:U:O4'	2.14	0.47
35:DA:2167:U:H2'	35:DA:2168:G:C8	2.49	0.47
35:DA:2464:C:O2'	35:DA:2465:C:P	2.73	0.47
35:DA:2591:C:OP2	38:DD:239:ARG:HB3	2.15	0.47
37:DC:31:LYS:NZ	37:DC:183:PRO:HD3	2.30	0.47
38:DD:40:THR:HG22	38:DD:41:GLY:O	2.14	0.47
39:DE:14:ILE:HG12	39:DE:21:VAL:HG22	1.97	0.47
41:DG:31:VAL:HG22	41:DG:32:PRO:CD	2.35	0.47
41:DG:60:LEU:O	41:DG:60:LEU:HD13	2.15	0.47
41:DG:96:ARG:O	41:DG:99:MET:N	2.36	0.47
41:DG:131:TYR:HB3	41:DG:159:VAL:HG11	1.97	0.47
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.15	0.47
43:DI:2:LYS:HB2	43:DI:39:ALA:HB3	1.96	0.47
43:DI:98:ALA:O	43:DI:101:LEU:HB3	2.15	0.47
48:DQ:35:VAL:HG23	48:DQ:100:GLY:O	2.15	0.47
50:DS:13:ARG:HG3	50:DS:14:VAL:N	2.21	0.47
50:DS:97:ARG:HG2	50:DS:97:ARG:NH1	2.29	0.47
52:DU:91:ASP:O	52:DU:95:LEU:HB2	2.15	0.47
53:DV:72:VAL:HG23	53:DV:72:VAL:O	2.15	0.47
1:AA:59:A:C5'	1:AA:60:A:H5"	2.45	0.47
1:AA:433:C:O2'	1:AA:434:U:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:568:G:O6	12:AL:5:PRO:HD3	2.15	0.47
1:AA:644:G:O2'	1:AA:645:C:H5'	2.15	0.47
1:AA:1269:A:OP1	21:AU:24:ARG:HD2	2.15	0.47
1:AA:1505:G:H5"	1:AA:1506:U:H5"	1.96	0.47
2:AB:174:VAL:O	2:AB:178:ARG:HB2	2.15	0.47
2:AB:235:SER:OG	2:AB:236:TYR:HD1	1.96	0.47
5:AE:7:GLU:HB2	5:AE:35:GLY:O	2.15	0.47
6:AF:68:PRO:HG3	6:AF:71:ARG:HH21	1.80	0.47
12:AL:39:VAL:HG11	12:AL:57:LYS:HZ3	1.80	0.47
12:AL:60:LEU:CD2	12:AL:65:GLU:HA	2.45	0.47
13:AM:32:GLU:O	13:AM:35:GLU:HG2	2.15	0.47
17:AQ:7:THR:HG22	17:AQ:58:GLU:HG2	1.96	0.47
18:AR:25:THR:HG22	18:AR:42:ARG:HH11	1.79	0.47
23:AW:69:G:N1	23:AW:70:G:C5	2.83	0.47
27:B2:55:ARG:NH2	35:BA:75:G:H4'	2.30	0.47
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.44	0.47
35:BA:192:C:H2'	35:BA:193:U:H5'	1.97	0.47
35:BA:530:G:C5	35:BA:2022:U:H5"	2.50	0.47
35:BA:709:U:H3	35:BA:722:A:N6	2.10	0.47
35:BA:832:G:H5'	47:BP:45:LEU:HD11	1.97	0.47
35:BA:1484:G:H21	35:BA:1505:C:N4	2.12	0.47
35:BA:1670:C:O2	39:BE:129:HIS:HE1	1.97	0.47
35:BA:2167:U:H2'	35:BA:2168:G:C8	2.50	0.47
35:BA:2330:G:H2'	35:BA:2331:G:O4'	2.14	0.47
35:BA:2639:A:C2'	35:BA:2640:G:H5'	2.45	0.47
35:BA:2854:G:H2'	35:BA:2855:C:C6	2.50	0.47
38:BD:30:GLU:CG	38:BD:63:ARG:NH2	2.78	0.47
39:BE:51:PHE:CE1	39:BE:52:LEU:HD13	2.50	0.47
40:BF:8:GLN:O	40:BF:10:PRO:N	2.48	0.47
41:BG:36:LYS:HD3	41:BG:160:VAL:HG21	1.97	0.47
41:BG:43:LEU:HB3	41:BG:45:GLU:HG2	1.95	0.47
41:BG:106:LEU:HD12	41:BG:110:ALA:HB3	1.97	0.47
45:BN:128:HIS:NE2	45:BN:134:ARG:HD3	2.29	0.47
47:BP:71:VAL:O	47:BP:72:PRO:C	2.58	0.47
51:BT:98:LYS:HB3	51:BT:100:TYR:CE1	2.50	0.47
1:CA:501:C:O3'	12:CL:118:SER:HB2	2.15	0.47
1:CA:781:A:C3'	1:CA:782:A:H5'	2.45	0.47
1:CA:936:C:H2'	1:CA:937:A:O4'	2.15	0.47
1:CA:1291:G:H4'	9:CI:39:GLY:HA3	1.97	0.47
1:CA:1522:U:N3	1:CA:1523:G:N7	2.63	0.47
2:CB:53:ARG:NH1	2:CB:199:TYR:CD2	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:189:ASP:C	2:CB:191:ASP:N	2.67	0.47
4:CD:9:CYS:SG	4:CD:31:CYS:C	2.98	0.47
4:CD:152:SER:C	4:CD:155:LEU:HG	2.40	0.47
5:CE:20:GLN:O	5:CE:21:ALA:C	2.57	0.47
7:CG:32:ARG:HG2	7:CG:32:ARG:NH1	2.30	0.47
7:CG:95:ARG:HG2	7:CG:99:LEU:CD1	2.44	0.47
8:CH:25:ASP:HA	8:CH:59:LEU:O	2.15	0.47
11:CK:11:LYS:O	11:CK:13:GLN:HG3	2.14	0.47
12:CL:102:ARG:HE	12:CL:102:ARG:HB3	1.47	0.47
13:CM:90:LEU:O	13:CM:91:ARG:CB	2.63	0.47
13:CM:94:ARG:HB3	13:CM:96:LEU:HG	1.96	0.47
18:CR:25:THR:HG22	18:CR:42:ARG:HH11	1.79	0.47
18:CR:30:ASP:C	18:CR:32:ARG:N	2.73	0.47
18:CR:40:LEU:HD12	18:CR:40:LEU:N	2.29	0.47
20:CT:82:SER:O	20:CT:86:ARG:HD2	2.14	0.47
20:CT:89:ARG:HB2	20:CT:104:LEU:CD1	2.41	0.47
22:CY:70:G:C6	22:CY:71:G:C6	3.03	0.47
22:CY:76:C:OP1	25:D0:3:HIS:ND1	2.48	0.47
35:DA:510:C:O2'	35:DA:511:U:H5'	2.15	0.47
35:DA:1668:A:N3	35:DA:1670:C:C4	2.83	0.47
35:DA:1688:U:H1'	35:DA:1701:A:C6	2.49	0.47
35:DA:1999:C:H5"	35:DA:2723:C:O2'	2.15	0.47
35:DA:2114:A:O2'	35:DA:2115:G:H5'	2.15	0.47
38:DD:166:GLN:CA	38:DD:166:GLN:HE21	2.27	0.47
40:DF:164:ARG:HG3	40:DF:175:THR:OG1	2.14	0.47
43:DI:37:VAL:HG12	43:DI:38:LEU:N	2.30	0.47
45:DN:99:LEU:O	45:DN:103:VAL:HG23	2.15	0.47
45:DN:128:HIS:NE2	45:DN:134:ARG:HD3	2.30	0.47
51:DT:117:ASP:O	51:DT:121:ILE:HG13	2.15	0.47
1:AA:153:C:O2'	1:AA:154:C:H5'	2.15	0.46
1:AA:1027:C:H1'	1:AA:1035:A:C2	2.50	0.46
1:AA:1027:C:H2'	1:AA:1028:C:C5	2.50	0.46
1:AA:1346:A:C5'	9:AI:120:ARG:HH12	2.28	0.46
2:AB:21:ARG:O	2:AB:23:ARG:N	2.48	0.46
2:AB:83:MET:HG3	2:AB:234:PRO:HG2	1.97	0.46
9:AI:48:GLU:C	9:AI:50:LEU:H	2.23	0.46
9:AI:112:LYS:HD3	9:AI:112:LYS:C	2.40	0.46
10:AJ:63:PHE:HA	14:AN:59:ALA:H	1.80	0.46
11:AK:21:ILE:HB	11:AK:84:VAL:HG12	1.97	0.46
12:AL:46:LYS:HB3	12:AL:47:LYS:H	1.41	0.46
16:AP:80:PHE:H	16:AP:80:PHE:HD1	1.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:61:GLU:HA	17:AQ:71:PHE:CE1	2.50	0.46
18:AR:30:ASP:C	18:AR:32:ARG:N	2.72	0.46
18:AR:66:LEU:HD11	18:AR:70:ILE:HD11	1.97	0.46
20:AT:90:GLN:O	20:AT:93:GLU:HB3	2.15	0.46
22:AV:13:U:N3	22:AV:25:A:C6	2.82	0.46
23:AW:9:A:C6	23:AW:48:G:C2	3.03	0.46
23:AW:35:U:H3'	23:AW:35:U:P	2.54	0.46
25:B0:6:GLY:C	25:B0:7:LEU:HD23	2.40	0.46
26:B1:48:LYS:HA	26:B1:60:PHE:O	2.15	0.46
28:B3:2:PRO:O	28:B3:3:ARG:O	2.33	0.46
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.15	0.46
31:B6:42:TRP:CZ2	35:BA:642:G:O3'	2.67	0.46
33:B8:33:ASN:N	33:B8:36:LYS:HD2	2.29	0.46
35:BA:145:G:C3'	35:BA:146:G:H5"	2.44	0.46
35:BA:363(E):U:H5'	35:BA:363(F):A:OP2	2.14	0.46
35:BA:960:A:N6	48:BQ:83:MET:HE2	2.30	0.46
35:BA:980:A:N3	35:BA:2037:G:O2'	2.46	0.46
35:BA:1204:A:N1	35:BA:1241:A:C2	2.81	0.46
35:BA:1541:G:C5'	35:BA:1542:A:O4'	2.63	0.46
35:BA:1841:U:H2'	35:BA:1842:G:C8	2.50	0.46
35:BA:2591:C:P	38:BD:239:ARG:HB3	2.55	0.46
39:BE:39:PRO:HA	39:BE:43:GLY:CA	2.45	0.46
40:BF:82:ILE:O	40:BF:82:ILE:HG13	2.15	0.46
40:BF:184:TYR:O	40:BF:188:ARG:HG2	2.14	0.46
41:BG:10:LYS:O	41:BG:15:VAL:HG23	2.15	0.46
43:BI:139:GLN:H	43:BI:139:GLN:NE2	2.13	0.46
45:BN:1:MET:H1	53:BV:20:LEU:HD22	1.81	0.46
46:BO:35:VAL:HG11	46:BO:103:ALA:CB	2.35	0.46
47:BP:16:ARG:NH1	47:BP:16:ARG:O	2.47	0.46
47:BP:91:PHE:H	47:BP:91:PHE:HD1	1.58	0.46
47:BP:125:VAL:CG1	47:BP:138:LEU:HD21	2.45	0.46
56:BY:40:GLU:HA	56:BY:40:GLU:OE1	2.15	0.46
1:CA:358:U:O2'	1:CA:359:U:H5'	2.15	0.46
1:CA:393:A:H2'	1:CA:394:G:H8	1.79	0.46
1:CA:828:A:H2'	1:CA:829:G:O4'	2.16	0.46
1:CA:836:G:C6	1:CA:851:G:C6	3.03	0.46
1:CA:1056:U:OP1	3:CC:163:ALA:HB3	2.15	0.46
1:CA:1133:G:H2'	1:CA:1134:G:C8	2.50	0.46
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.97	0.46
2:CB:93:VAL:HG11	2:CB:97:TRP:CD1	2.50	0.46
6:CF:7:ASN:O	6:CF:8:ILE:HG13	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:14:LEU:HB2	6:CF:19:LEU:HB2	1.95	0.46
6:CF:40:VAL:O	6:CF:40:VAL:HG13	2.15	0.46
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.29	0.46
7:CG:139:GLU:O	7:CG:142:GLU:N	2.48	0.46
8:CH:25:ASP:OD2	8:CH:60:ARG:HD2	2.15	0.46
10:CJ:7:LYS:HD3	10:CJ:71:LEU:HD13	1.97	0.46
11:CK:54:ARG:NH2	23:CW:42:C:OP1	2.48	0.46
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.96	0.46
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.78	0.46
16:CP:64:ALA:O	16:CP:65:GLN:C	2.57	0.46
18:CR:44:LEU:CD2	18:CR:79:LEU:HD22	2.44	0.46
23:CW:15:G:C5	23:CW:61:A:C2	3.03	0.46
24:CX:19:A:C5	22:CY:39:A:C2	3.03	0.46
22:CY:52:C:C4	22:CY:53:U:C4	3.02	0.46
26:D1:87:PRO:HA	26:D1:90:ILE:CG1	2.46	0.46
29:D4:1:MET:H1	36:DB:43:C:H4'	1.81	0.46
35:DA:156:U:O2	35:DA:156:U:H2'	2.14	0.46
35:DA:191:A:H2'	35:DA:192:C:H6	1.80	0.46
35:DA:574:C:N3	39:DE:145:LYS:HE2	2.30	0.46
35:DA:1014:U:O2'	35:DA:1015:G:H5"	2.15	0.46
35:DA:1168:G:O2'	35:DA:1169:G:H5'	2.15	0.46
35:DA:1837:C:O2'	35:DA:1927:A:N3	2.47	0.46
35:DA:2747:G:O2'	42:DH:67:LEU:HD13	2.15	0.46
38:DD:35:LYS:N	38:DD:36:PRO:CD	2.76	0.46
39:DE:25:VAL:HG21	51:DT:8:LYS:HG2	1.97	0.46
39:DE:48:GLN:NE2	39:DE:78:LEU:HD22	2.30	0.46
39:DE:57:LYS:O	39:DE:59:VAL:N	2.47	0.46
40:DF:82:ILE:O	40:DF:82:ILE:HG13	2.14	0.46
40:DF:192:LEU:HD21	40:DF:194:MET:CG	2.45	0.46
45:DN:1:MET:N	53:DV:20:LEU:HD21	2.30	0.46
45:DN:91:LEU:HA	45:DN:95:PRO:HB3	1.97	0.46
47:DP:82:GLY:HA2	47:DP:113:LYS:O	2.15	0.46
48:DQ:32:TYR:HE1	48:DQ:133:ARG:NH1	2.13	0.46
49:DR:28:LEU:CD2	49:DR:114:VAL:HG12	2.45	0.46
51:DT:62:THR:HA	51:DT:74:ARG:O	2.14	0.46
55:DX:18:TYR:C	55:DX:20:GLY:N	2.72	0.46
57:DZ:145:GLU:HG3	57:DZ:146:ILE:HG12	1.97	0.46
1:AA:180:U:H2'	1:AA:181:G:H5'	1.91	0.46
1:AA:185:A:O2'	1:AA:186:C:H5'	2.15	0.46
1:AA:255:G:O2'	1:AA:256:U:H5'	2.16	0.46
1:AA:343:U:O2	1:AA:347:G:C6	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:501:C:OP1	12:AL:117:ARG:NH2	2.43	0.46
1:AA:706:A:N7	1:AA:707:C:C5	2.83	0.46
1:AA:764:C:H2'	1:AA:765:G:H8	1.80	0.46
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.97	0.46
1:AA:1184:G:O2'	1:AA:1185:G:H5'	2.15	0.46
1:AA:1298:C:H2'	7:AG:114:ARG:NH1	2.30	0.46
2:AB:224:GLN:C	2:AB:226:ARG:N	2.73	0.46
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.44	0.46
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.45	0.46
9:AI:97:LYS:HB3	9:AI:98:PRO:CD	2.40	0.46
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HB3	1.95	0.46
11:AK:82:VAL:HB	11:AK:108:ILE:HG13	1.97	0.46
12:AL:46:LYS:HE3	12:AL:92:ASP:HA	1.97	0.46
13:AM:89:GLY:HA2	13:AM:93:ARG:NH1	2.30	0.46
22:AV:14:A:C8	22:AV:24:A:C2	3.04	0.46
22:AV:19:G:O2'	22:AV:59:G:N2	2.48	0.46
23:AW:20:G:OP1	23:AW:21:U:C6	2.69	0.46
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	1.97	0.46
35:BA:570:G:H2'	35:BA:2030:A:C6	2.49	0.46
35:BA:574:C:N3	39:BE:145:LYS:HE2	2.30	0.46
35:BA:646:A:H2'	35:BA:647:G:O4'	2.15	0.46
35:BA:829:A:N7	35:BA:2248:C:H5'	2.30	0.46
35:BA:1014:U:H2'	35:BA:1015:G:H5'	1.98	0.46
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.50	0.46
35:BA:1494:A:O2'	35:BA:1496:A:H2	1.98	0.46
35:BA:2153:G:H2'	35:BA:2154:G:C8	2.50	0.46
35:BA:2161:C:H2'	35:BA:2162:G:H8	1.80	0.46
38:BD:93:ALA:HB3	38:BD:105:ILE:HG23	1.97	0.46
39:BE:107:THR:O	39:BE:190:GLY:HA2	2.14	0.46
42:BH:89:ILE:C	42:BH:89:ILE:HD12	2.40	0.46
43:BI:27:ARG:HH11	43:BI:27:ARG:CG	2.22	0.46
43:BI:93:THR:HG23	43:BI:119:PRO:CB	2.42	0.46
43:BI:109:ILE:HG22	43:BI:114:LEU:HD11	1.96	0.46
45:BN:96:GLU:HB2	45:BN:122:VAL:HG12	1.97	0.46
49:BR:10:LEU:HD13	49:BR:17:ARG:NH1	2.30	0.46
50:BS:16:ASN:C	50:BS:18:ILE:N	2.73	0.46
51:BT:125:ARG:C	51:BT:127:ALA:N	2.74	0.46
52:BU:92:ARG:HD2	53:BV:11:GLN:NE2	2.30	0.46
56:BY:95:LYS:HD3	56:BY:100:ALA:CA	2.45	0.46
57:BZ:30:ASN:OD1	57:BZ:33:LEU:HB3	2.14	0.46
1:CA:110:C:H2'	1:CA:111:G:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:255:G:H4'	17:CQ:17:LYS:HD2	1.97	0.46
1:CA:1194:U:H4'	5:CE:22:GLY:CA	2.45	0.46
1:CA:1236:A:O2'	1:CA:1304:G:H4'	2.15	0.46
1:CA:1371:G:OP2	9:CI:11:LYS:HG2	2.15	0.46
2:CB:97:TRP:CE2	2:CB:173:ALA:HB2	2.50	0.46
3:CC:207:VAL:HG12	3:CC:207:VAL:O	2.14	0.46
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.15	0.46
7:CG:67:GLU:HA	7:CG:67:GLU:OE1	2.15	0.46
12:CL:53:ARG:HG2	12:CL:93:LEU:HD11	1.96	0.46
13:CM:45:VAL:O	13:CM:48:LEU:HD22	2.14	0.46
14:CN:22:THR:OG1	14:CN:33:VAL:HG21	2.15	0.46
14:CN:23:ARG:HD2	14:CN:28:GLY:C	2.39	0.46
17:CQ:50:LYS:HG3	17:CQ:51:TYR:CD1	2.51	0.46
22:CV:51:G:H1	22:CV:67:C:N4	2.13	0.46
23:CW:7:U:C2	23:CW:69:G:C5	3.03	0.46
23:CW:71:G:H8	23:CW:71:G:O5'	1.97	0.46
29:D4:33:VAL:CG2	41:DG:109:VAL:HG22	2.45	0.46
30:D5:50:GLY:HA2	30:D5:55:ARG:HB2	1.96	0.46
31:D6:34:LEU:CD2	31:D6:51:GLU:HB3	2.44	0.46
35:DA:1043:C:O2'	35:DA:1044:G:H5'	2.16	0.46
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.80	0.46
35:DA:1399:C:O2'	35:DA:1400:G:H5'	2.16	0.46
35:DA:1440:G:O2'	35:DA:1441:G:H5'	2.15	0.46
35:DA:1545:A:H2'	35:DA:1546:C:O4'	2.15	0.46
35:DA:2011:U:H2'	35:DA:2012:G:H5'	1.96	0.46
35:DA:2287:A:C6	35:DA:2289:G:C4	3.03	0.46
35:DA:2639:A:C2'	35:DA:2640:G:H5'	2.45	0.46
39:DE:117:MET:HE1	39:DE:124:GLY:HA3	1.98	0.46
41:DG:22:ARG:HD2	41:DG:23:PHE:CE1	2.51	0.46
41:DG:113:ARG:N	41:DG:140:ILE:HB	2.30	0.46
41:DG:114:ILE:O	41:DG:115:ARG:C	2.59	0.46
45:DN:58:ASP:O	45:DN:59:LYS:HB2	2.15	0.46
47:DP:41:ARG:NE	47:DP:41:ARG:HA	2.31	0.46
51:DT:3:ARG:HH11	51:DT:3:ARG:CG	2.29	0.46
51:DT:98:LYS:HB3	51:DT:100:TYR:CE1	2.50	0.46
51:DT:125:ARG:C	51:DT:127:ALA:N	2.72	0.46
52:DU:98:LEU:C	52:DU:100:VAL:N	2.71	0.46
54:DW:24:ILE:O	54:DW:25:ARG:C	2.58	0.46
55:DX:65:ARG:HH11	55:DX:65:ARG:HG2	1.80	0.46
57:DZ:63:ASP:O	57:DZ:65:GLN:N	2.48	0.46
57:DZ:146:ILE:HA	57:DZ:174:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:37:U:OP2	12:AL:123:LYS:HD3	2.15	0.46
1:AA:369:C:O2	1:AA:369:C:H2'	2.15	0.46
1:AA:818:G:H3'	1:AA:819:A:H5"	1.97	0.46
1:AA:991:U:O2	1:AA:993:G:C8	2.65	0.46
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.79	0.46
1:AA:1106:G:H5"	3:AC:172:ARG:CD	2.45	0.46
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.15	0.46
1:AA:1408:A:H5'	35:BA:1912:A:N6	2.30	0.46
2:AB:19:HIS:HD2	2:AB:189:ASP:OD2	1.99	0.46
2:AB:56:ARG:HG2	2:AB:56:ARG:NH1	2.30	0.46
7:AG:5:ARG:C	7:AG:7:ALA:N	2.74	0.46
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.14	0.46
7:AG:40:ALA:O	7:AG:44:TYR:CD2	2.68	0.46
8:AH:111:ILE:C	8:AH:112:LEU:HD23	2.40	0.46
10:AJ:22:LYS:C	10:AJ:24:VAL:N	2.73	0.46
12:AL:41:ARG:CZ	12:AL:43:VAL:HG12	2.45	0.46
13:AM:90:LEU:O	13:AM:91:ARG:CB	2.63	0.46
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	2.16	0.46
18:AR:25:THR:O	18:AR:26:LEU:HG	2.15	0.46
23:AW:24:A:H2'	23:AW:25:A:O4'	2.16	0.46
23:AW:76:C:C4	23:AW:77:C:N4	2.83	0.46
22:AY:15:G:N2	22:AY:61:A:C4	2.83	0.46
29:B4:32:TYR:N	29:B4:32:TYR:CD1	2.84	0.46
34:B9:35:ARG:HD3	35:BA:2742:C:OP1	2.15	0.46
35:BA:686:G:N2	35:BA:788:A:H61	2.14	0.46
35:BA:941:A:H2'	35:BA:942:G:C8	2.50	0.46
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.50	0.46
35:BA:1755:A:C2	35:BA:2716:U:H1'	2.50	0.46
35:BA:1789:A:H2'	35:BA:1790:C:O4'	2.16	0.46
35:BA:2011:U:H2'	35:BA:2012:G:H5'	1.96	0.46
35:BA:2665:A:OP1	35:BA:2665:A:H4'	2.15	0.46
37:BC:36:ALA:C	37:BC:38:PHE:H	2.23	0.46
39:BE:37:ARG:HD2	39:BE:42:ASP:CG	2.40	0.46
39:BE:89:ASP:O	39:BE:90:THR:C	2.57	0.46
39:BE:199:ARG:HH12	39:BE:202:LYS:HE2	1.80	0.46
41:BG:77:ILE:HG22	41:BG:77:ILE:O	2.14	0.46
41:BG:181:ARG:O	41:BG:182:LYS:C	2.57	0.46
42:BH:24:VAL:HG11	42:BH:72:ILE:CD1	2.46	0.46
45:BN:134:ARG:H	45:BN:135:PRO:HD3	1.80	0.46
46:BO:43:VAL:CG2	46:BO:56:ASP:HB2	2.45	0.46
46:BO:69:ILE:HD12	46:BO:69:ILE:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:108:LYS:C	47:BP:110:TYR:N	2.71	0.46
48:BQ:133:ARG:HG3	48:BQ:133:ARG:NH1	2.30	0.46
51:BT:29:ARG:HA	51:BT:29:ARG:HD2	1.60	0.46
51:BT:32:TYR:O	51:BT:33:LYS:O	2.32	0.46
52:BU:79:PHE:O	52:BU:83:LEU:HD22	2.15	0.46
54:BW:2:GLU:HA	54:BW:64:MET:HE1	1.98	0.46
57:BZ:81:ARG:HH11	57:BZ:81:ARG:HB2	1.80	0.46
57:BZ:146:ILE:HG22	57:BZ:174:VAL:HG12	1.97	0.46
1:CA:764:C:H2'	1:CA:765:G:H8	1.80	0.46
1:CA:801:U:H2'	1:CA:802:A:C8	2.50	0.46
1:CA:1070:U:O2'	1:CA:1071:C:H5'	2.15	0.46
1:CA:1121:U:H2'	1:CA:1122:U:C6	2.51	0.46
1:CA:1405:G:H21	1:CA:1517:G:H22	1.61	0.46
2:CB:17:PHE:CB	2:CB:44:LEU:HD11	2.45	0.46
2:CB:30:ARG:HG3	2:CB:31:TYR:CD1	2.51	0.46
2:CB:112:VAL:C	2:CB:114:ARG:N	2.70	0.46
3:CC:143:GLU:C	3:CC:145:GLY:H	2.23	0.46
6:CF:63:TYR:N	6:CF:63:TYR:CD1	2.82	0.46
7:CG:78:ARG:HG2	7:CG:79:ARG:H	1.80	0.46
9:CI:20:ARG:HG3	9:CI:20:ARG:NH1	2.29	0.46
11:CK:117:ASN:HD22	11:CK:117:ASN:HA	1.59	0.46
16:CP:25:ARG:HH11	16:CP:25:ARG:HG3	1.79	0.46
22:CV:3:G:H2'	22:CV:4:C:H5"	1.96	0.46
22:CV:14:A:C5	22:CV:24:A:C5	3.04	0.46
23:CW:12:U:H3	23:CW:26:G:H1	1.62	0.46
22:CY:14:A:H3'	22:CY:15:G:H8	1.80	0.46
27:D2:53:LEU:O	27:D2:53:LEU:HD23	2.15	0.46
27:D2:63:VAL:O	27:D2:64:LEU:C	2.58	0.46
27:D2:64:LEU:HD22	27:D2:68:ARG:HH11	1.79	0.46
35:DA:27:G:N2	35:DA:512:G:C2'	2.79	0.46
35:DA:67:U:O2'	35:DA:68:G:H5'	2.15	0.46
35:DA:251:A:H5"	47:DP:51:PHE:CZ	2.50	0.46
35:DA:528:A:C2	35:DA:2042:A:H2'	2.50	0.46
35:DA:813:U:H2'	35:DA:814:C:H6	1.80	0.46
35:DA:836:G:C5	35:DA:837:C:C4	3.03	0.46
35:DA:860:U:C5	35:DA:917:A:N7	2.83	0.46
35:DA:903:C:H2'	35:DA:904:C:C6	2.51	0.46
35:DA:1204:A:N1	35:DA:1241:A:C2	2.80	0.46
35:DA:1341:U:OP1	35:DA:1397:U:N3	2.34	0.46
35:DA:1498:C:O4'	35:DA:1577:C:H4'	2.14	0.46
35:DA:1548:C:H2'	35:DA:1549:C:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2469:A:H2'	48:DQ:56:ARG:HH21	1.80	0.46
36:DB:7:G:H4'	50:DS:29:PHE:CD2	2.50	0.46
36:DB:28:C:H2'	36:DB:29:A:C8	2.51	0.46
40:DF:124:LEU:O	40:DF:193:VAL:HA	2.14	0.46
43:DI:40:THR:O	43:DI:44:LEU:N	2.39	0.46
44:DJ:35:UNK:O	44:DJ:37:UNK:N	2.49	0.46
51:DT:28:VAL:CG1	51:DT:46:GLU:HA	2.43	0.46
51:DT:30:VAL:HG21	51:DT:84:GLN:H	1.81	0.46
52:DU:74:LEU:CD2	52:DU:79:PHE:HB2	2.45	0.46
57:DZ:77:ASP:O	57:DZ:78:LYS:HB2	2.15	0.46
57:DZ:179:ASP:OD2	57:DZ:181:GLU:HB2	2.15	0.46
1:AA:126:G:OP1	1:AA:605:U:O2'	2.34	0.46
1:AA:203:U:OP2	1:AA:203:U:H6	1.98	0.46
1:AA:695:A:H61	1:AA:797:C:H1'	1.80	0.46
1:AA:1216:G:O2'	1:AA:1217:C:H5'	2.15	0.46
1:AA:1326:C:H2'	1:AA:1327:C:C6	2.50	0.46
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.51	0.46
2:AB:11:LEU:CD1	2:AB:217:ARG:NH2	2.78	0.46
2:AB:93:VAL:HG11	2:AB:97:TRP:CD1	2.50	0.46
3:AC:74:GLY:C	3:AC:76:VAL:N	2.72	0.46
5:AE:36:ASP:O	5:AE:37:ARG:CB	2.63	0.46
9:AI:15:ALA:HB2	9:AI:65:VAL:CB	2.45	0.46
9:AI:33:PHE:CE1	9:AI:37:PHE:CD2	3.03	0.46
11:AK:54:ARG:CZ	23:AW:42:C:OP1	2.63	0.46
11:AK:59:TYR:CZ	11:AK:63:LEU:HD21	2.50	0.46
12:AL:86:ARG:HB2	12:AL:101:VAL:CG2	2.45	0.46
13:AM:66:LEU:O	13:AM:70:LEU:HB3	2.16	0.46
19:AS:40:ILE:HG21	19:AS:62:ILE:CD1	2.46	0.46
23:AW:68:A:C6	23:AW:69:G:C8	3.03	0.46
23:AW:70:G:C4	23:AW:71:G:C5	3.03	0.46
22:AY:4:C:O2'	22:AY:5:C:P	2.73	0.46
22:AY:56:U:OP1	48:BQ:56:ARG:NH1	2.47	0.46
25:B0:11:ARG:C	25:B0:12:ASN:ND2	2.73	0.46
25:B0:36:ILE:HD11	25:B0:39:ARG:HG2	1.98	0.46
26:B1:7:ILE:HG12	26:B1:62:VAL:HG23	1.96	0.46
27:B2:3:LEU:CD2	27:B2:7:ARG:HH11	2.28	0.46
27:B2:68:ARG:CG	27:B2:68:ARG:NH1	2.75	0.46
33:B8:32:LEU:HB3	33:B8:36:LYS:NZ	2.30	0.46
35:BA:26:G:C6	35:BA:27:G:N1	2.82	0.46
35:BA:570:G:H2'	35:BA:2030:A:N7	2.30	0.46
35:BA:598:G:H2'	35:BA:599:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:887:A:HO2'	35:BA:888:C:H6	1.63	0.46
35:BA:1168:G:O2'	35:BA:1169:G:H5'	2.16	0.46
35:BA:1311:G:C2	55:BX:60:ARG:NH1	2.83	0.46
35:BA:2148:G:H2'	35:BA:2149:G:C8	2.49	0.46
35:BA:2291:U:O2'	35:BA:2374:C:H1'	2.16	0.46
35:BA:2322:A:H2'	35:BA:2323:G:O4'	2.15	0.46
36:BB:109:C:H5'	36:BB:110:G:O5'	2.14	0.46
37:BC:14:LYS:O	37:BC:29:LEU:HD11	2.15	0.46
37:BC:48:LEU:HD12	37:BC:48:LEU:N	2.31	0.46
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.50	0.46
39:BE:167:VAL:HG22	39:BE:170:LEU:HD11	1.98	0.46
41:BG:12:TYR:HA	41:BG:16:ARG:CG	2.45	0.46
43:BI:73:GLU:CG	43:BI:74:ASN:N	2.78	0.46
47:BP:6:LEU:HD23	47:BP:6:LEU:N	2.20	0.46
48:BQ:14:ARG:O	48:BQ:72:LYS:HE2	2.16	0.46
49:BR:18:LEU:HD21	49:BR:22:ARG:CZ	2.46	0.46
50:BS:87:PHE:H	50:BS:106:ARG:HD3	1.79	0.46
51:BT:58:ASN:N	51:BT:58:ASN:ND2	2.64	0.46
51:BT:91:ARG:HG2	51:BT:116:ALA:CB	2.46	0.46
52:BU:74:LEU:HD22	52:BU:74:LEU:C	2.40	0.46
55:BX:55:ASN:HB2	55:BX:80:ILE:HG12	1.98	0.46
56:BY:7:VAL:HG21	56:BY:8:LYS:HZ3	1.77	0.46
56:BY:46:LYS:HG3	56:BY:47:LYS:N	2.31	0.46
57:BZ:31:ARG:HD2	57:BZ:94:GLU:OE1	2.15	0.46
57:BZ:119:GLU:O	57:BZ:119:GLU:HG3	2.16	0.46
1:CA:19:C:H5"	5:CE:86:ALA:HB3	1.93	0.46
1:CA:68:G:C2	1:CA:69:G:C4	3.03	0.46
1:CA:501:C:H2'	1:CA:502:G:C8	2.50	0.46
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.50	0.46
1:CA:1145:C:H4'	1:CA:1146:A:H5'	1.97	0.46
2:CB:9:GLU:OE1	2:CB:10:LEU:N	2.48	0.46
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.97	0.46
2:CB:56:ARG:HG2	2:CB:56:ARG:NH1	2.30	0.46
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.44	0.46
7:CG:36:LYS:O	7:CG:39:ALA:HB3	2.15	0.46
7:CG:54:THR:C	7:CG:56:GLN:H	2.23	0.46
9:CI:48:GLU:C	9:CI:50:LEU:H	2.24	0.46
11:CK:21:ILE:HB	11:CK:84:VAL:HG12	1.97	0.46
12:CL:60:LEU:C	12:CL:62:SER:N	2.73	0.46
18:CR:65:ILE:O	18:CR:69:THR:HG23	2.15	0.46
20:CT:42:GLN:HA	20:CT:42:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:8:U:N3	23:CW:24:A:N6	2.63	0.46
23:CW:12:U:N3	23:CW:26:G:N2	2.29	0.46
22:CY:36:AG9:H2A	22:CY:37:A:C1'	2.45	0.46
31:D6:42:TRP:CZ2	35:DA:642:G:O3'	2.68	0.46
33:D8:33:ASN:ND2	33:D8:33:ASN:N	2.59	0.46
33:D8:56:GLU:O	33:D8:58:ILE:N	2.49	0.46
35:DA:560:C:H4'	52:DU:52:ARG:CZ	2.44	0.46
35:DA:631:A:OP1	47:DP:64:LYS:CE	2.63	0.46
35:DA:861:A:N3	36:DB:79:C:O2'	2.44	0.46
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.38	0.46
35:DA:2050:C:H2'	35:DA:2051:A:O4'	2.15	0.46
35:DA:2153:G:H2'	35:DA:2154:G:C8	2.51	0.46
35:DA:2307:G:H3'	35:DA:2307:G:N3	2.30	0.46
35:DA:2646:C:O5'	35:DA:2646:C:H6	1.98	0.46
38:DD:137:PRO:O	38:DD:138:VAL:C	2.58	0.46
41:DG:170:ARG:HH21	41:DG:180:PHE:HD2	1.63	0.46
45:DN:131:GLN:C	45:DN:133:GLN:H	2.23	0.46
46:DO:17:ARG:HB2	46:DO:45:GLU:O	2.14	0.46
47:DP:58:THR:O	47:DP:58:THR:HG22	2.16	0.46
47:DP:62:LEU:HG	47:DP:63:PRO:HD2	1.98	0.46
47:DP:144:GLU:O	47:DP:145:PRO:C	2.56	0.46
49:DR:38:VAL:HG12	49:DR:42:LYS:HD2	1.96	0.46
50:DS:70:GLY:HA3	50:DS:101:LEU:HD23	1.96	0.46
51:DT:36:GLU:HG2	51:DT:36:GLU:O	2.15	0.46
53:DV:51:VAL:CG1	53:DV:52:VAL:N	2.79	0.46
54:DW:37:ARG:HH11	54:DW:37:ARG:HG3	1.80	0.46
57:DZ:165:VAL:HG13	57:DZ:169:GLU:HB2	1.96	0.46
1:AA:34:C:H2'	1:AA:35:G:C8	2.51	0.46
1:AA:828:A:H2'	1:AA:829:G:O4'	2.15	0.46
1:AA:1190:G:OP2	3:AC:5:ILE:HG23	2.15	0.46
1:AA:1408:A:O2'	1:AA:1409:C:H5'	2.15	0.46
2:AB:47:THR:HG23	2:AB:202:PRO:HG2	1.97	0.46
3:AC:88:ARG:HA	3:AC:91:LEU:CD1	2.44	0.46
3:AC:106:VAL:C	3:AC:108:ASN:H	2.23	0.46
4:AD:168:ARG:HG3	4:AD:168:ARG:NH1	2.30	0.46
5:AE:101:ILE:HD13	5:AE:101:ILE:H	1.81	0.46
5:AE:126:ARG:HG3	5:AE:126:ARG:NH1	2.30	0.46
6:AF:6:VAL:C	6:AF:7:ASN:HD22	2.23	0.46
12:AL:20:LYS:HB3	12:AL:20:LYS:HZ3	1.77	0.46
14:AN:22:THR:O	14:AN:23:ARG:HB2	2.14	0.46
15:AO:25:THR:HG21	15:AO:70:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:38:LYS:HA	20:AT:41:ILE:HG12	1.98	0.46
20:AT:89:ARG:HD2	20:AT:104:LEU:HD21	1.96	0.46
23:AW:10:G:N3	23:AW:11:C:C6	2.84	0.46
23:AW:11:C:C2'	23:AW:12:U:O4'	2.64	0.46
23:AW:63:C:H2'	23:AW:63:C:O2	2.15	0.46
22:AY:32:G:C5	22:AY:43:G:C2	3.04	0.46
26:B1:29:GLY:O	26:B1:30:VAL:HG23	2.15	0.46
26:B1:67:ILE:O	26:B1:70:VAL:HB	2.16	0.46
27:B2:45:SER:H	27:B2:46:GLN:HE22	1.61	0.46
30:B5:3:LYS:HG2	35:BA:2015:A:H2	1.80	0.46
30:B5:40:LYS:HE2	30:B5:46:CYS:CB	2.44	0.46
35:BA:1130:U:O2	39:BE:149:ARG:NH2	2.49	0.46
35:BA:1140:C:P	45:BN:66:LYS:HZ3	2.39	0.46
35:BA:1252:G:N7	52:BU:36:ARG:NH1	2.62	0.46
35:BA:1638:C:H5"	35:BA:2710:C:O2'	2.15	0.46
35:BA:1641:A:H2'	35:BA:1642:G:O4'	2.16	0.46
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.35	0.46
39:BE:108:SER:O	39:BE:162:ALA:HA	2.15	0.46
39:BE:128:SER:OG	39:BE:129:HIS:N	2.43	0.46
40:BF:21:ALA:C	40:BF:23:ASP:N	2.69	0.46
43:BI:2:LYS:HB2	43:BI:39:ALA:HB3	1.97	0.46
47:BP:45:LEU:HD22	47:BP:46:LYS:H	1.80	0.46
47:BP:144:GLU:O	47:BP:145:PRO:C	2.58	0.46
48:BQ:42:ILE:HG22	48:BQ:47:ILE:HG13	1.97	0.46
48:BQ:52:VAL:O	48:BQ:55:VAL:HG22	2.16	0.46
50:BS:85:VAL:HG23	50:BS:106:ARG:HG3	1.98	0.46
53:BV:19:LYS:NZ	53:BV:20:LEU:N	2.44	0.46
54:BW:13:SER:O	54:BW:14:PRO:C	2.59	0.46
57:BZ:132:ASN:O	57:BZ:133:ILE:HD13	2.14	0.46
57:BZ:158:PRO:HA	57:BZ:159:PRO:HD3	1.82	0.46
1:CA:80:G:OP1	1:CA:80:G:H4'	2.16	0.46
1:CA:173:U:H5"	1:CA:197:A:O4'	2.16	0.46
1:CA:451:A:C6	1:CA:480:U:H2'	2.50	0.46
1:CA:476:G:H2'	1:CA:477:A:C8	2.51	0.46
1:CA:683:G:H2'	1:CA:684:A:C8	2.51	0.46
1:CA:894:G:H2'	1:CA:895:G:C8	2.51	0.46
1:CA:935:A:H2'	1:CA:936:C:H6	1.80	0.46
1:CA:1112:C:H1'	3:CC:179:ARG:CD	2.45	0.46
1:CA:1240:U:C4'	7:CG:38:LEU:HD21	2.45	0.46
1:CA:1411:C:O5'	1:CA:1411:C:H6	1.98	0.46
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:6:GLY:O	4:CD:7:PRO:C	2.59	0.46
5:CE:28:PHE:CD1	5:CE:28:PHE:N	2.84	0.46
9:CI:15:ALA:HB2	9:CI:65:VAL:CG2	2.46	0.46
9:CI:55:ALA:HA	9:CI:58:HIS:CD2	2.44	0.46
11:CK:105:VAL:HG23	11:CK:105:VAL:O	2.15	0.46
12:CL:47:LYS:HB3	12:CL:47:LYS:HZ3	1.79	0.46
13:CM:30:ALA:C	13:CM:32:GLU:N	2.73	0.46
22:CV:15:G:N9	22:CV:16:U:H5	2.13	0.46
23:CW:9:A:C8	23:CW:47:G:N2	2.83	0.46
23:CW:11:C:H2'	23:CW:12:U:O4'	2.15	0.46
23:CW:29:A:C4	23:CW:30:U:C5	3.03	0.46
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.13	0.46
35:DA:145:G:C3'	35:DA:146:G:H5"	2.44	0.46
35:DA:589:C:O2'	35:DA:590:A:H5'	2.15	0.46
35:DA:665:C:H2'	35:DA:666:G:C8	2.50	0.46
35:DA:680:G:H2'	35:DA:681:G:H8	1.79	0.46
35:DA:1054:A:H2'	35:DA:1107:G:C8	2.51	0.46
35:DA:1564:C:O2'	35:DA:1565:C:H5'	2.15	0.46
35:DA:2032:G:O2'	39:DE:145:LYS:NZ	2.47	0.46
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.16	0.46
35:DA:2098:U:H2'	35:DA:2099:U:O4'	2.15	0.46
35:DA:2828:C:O2'	35:DA:2829:C:H5'	2.15	0.46
38:DD:33:LEU:C	38:DD:33:LEU:HD23	2.41	0.46
39:DE:1:MET:HE2	39:DE:1:MET:H1	1.80	0.46
39:DE:24:THR:HG23	39:DE:184:VAL:CG2	2.46	0.46
39:DE:51:PHE:HE1	39:DE:52:LEU:HD13	1.80	0.46
39:DE:132:HIS:CG	39:DE:135:HIS:NE2	2.83	0.46
40:DF:158:THR:C	40:DF:178:PRO:HD3	2.40	0.46
41:DG:86:MET:HG2	41:DG:86:MET:O	2.16	0.46
41:DG:163:ALA:HB3	41:DG:169:ALA:HB2	1.98	0.46
42:DH:124:GLU:HG3	42:DH:132:ARG:CG	2.46	0.46
42:DH:124:GLU:CB	42:DH:132:ARG:HG2	2.44	0.46
45:DN:55:VAL:O	45:DN:56:ASN:C	2.59	0.46
46:DO:69:ILE:HD12	46:DO:69:ILE:N	2.30	0.46
47:DP:23:PRO:HB2	47:DP:33:ARG:NE	2.31	0.46
50:DS:17:ARG:HA	50:DS:20:ARG:HH12	1.81	0.46
51:DT:50:ILE:HD11	51:DT:102:ILE:HD11	1.98	0.46
52:DU:57:PHE:O	52:DU:58:ARG:C	2.57	0.46
52:DU:92:ARG:HD2	53:DV:11:GLN:NE2	2.31	0.46
57:DZ:24:LEU:HD23	57:DZ:24:LEU:C	2.40	0.46
57:DZ:61:LEU:HD23	57:DZ:61:LEU:N	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:181:GLU:HA	57:DZ:181:GLU:OE1	2.15	0.46
1:AA:59:A:H1'	1:AA:354:G:N2	2.30	0.46
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.50	0.46
1:AA:264:U:H2'	1:AA:265:G:O4'	2.16	0.46
1:AA:456:C:H2'	1:AA:457:C:H6	1.80	0.46
1:AA:473:G:H2'	1:AA:474:G:C8	2.48	0.46
1:AA:585:G:N3	1:AA:879:C:H4'	2.29	0.46
1:AA:668:G:H4'	15:AO:48:LYS:HB2	1.98	0.46
1:AA:914:A:O2'	1:AA:915:A:H5'	2.15	0.46
1:AA:936:C:H2'	1:AA:937:A:O4'	2.16	0.46
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	2.15	0.46
1:AA:1134:G:H22	1:AA:1141:C:C1'	2.29	0.46
1:AA:1291:G:H4'	9:AI:39:GLY:HA3	1.97	0.46
2:AB:30:ARG:HG3	2:AB:31:TYR:CD1	2.51	0.46
3:AC:131:ARG:HH11	5:AE:50:GLU:HG2	1.80	0.46
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.64	0.46
10:AJ:3:LYS:HZ2	10:AJ:76:ASN:HA	1.76	0.46
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	2.07	0.46
12:AL:60:LEU:C	12:AL:62:SER:H	2.23	0.46
12:AL:85:ILE:HD11	12:AL:98:TYR:CB	2.43	0.46
12:AL:119:LYS:C	12:AL:120:TYR:CD1	2.93	0.46
13:AM:57:ARG:NH1	29:B4:34:GLU:HA	2.29	0.46
16:AP:43:LYS:C	16:AP:45:THR:N	2.70	0.46
19:AS:25:LYS:O	19:AS:26:GLY:C	2.59	0.46
22:AV:10:G:N2	22:AV:27:C:C2	2.83	0.46
22:AV:14:A:H5"	22:AV:15:G:N7	2.31	0.46
22:AY:13:U:C2	22:AY:25:A:C6	3.02	0.46
30:B5:50:GLY:HA2	30:B5:55:ARG:HB2	1.98	0.46
31:B6:28:ARG:HB3	31:B6:28:ARG:NH1	2.31	0.46
33:B8:50:LEU:CD1	33:B8:51:ALA:H	2.14	0.46
34:B9:1:MET:O	34:B9:34:GLN:HG2	2.16	0.46
35:BA:102:G:OP1	35:BA:102:G:C4'	2.64	0.46
35:BA:364:C:C2'	35:BA:365:C:H5"	2.46	0.46
35:BA:469:G:H2'	35:BA:470:A:H5"	1.96	0.46
35:BA:870:A:C2	35:BA:908:C:C2	3.03	0.46
35:BA:1769:G:O2'	35:BA:1958:C:OP1	2.33	0.46
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.30	0.46
36:BB:42:C:H5"	41:BG:67:LYS:HE3	1.98	0.46
39:BE:72:VAL:O	39:BE:72:VAL:HG12	2.16	0.46
40:BF:25:PRO:CB	40:BF:119:ARG:HD3	2.39	0.46
43:BI:37:VAL:HG12	43:BI:38:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:62:LYS:HA	43:BI:65:ALA:HB3	1.98	0.46
45:BN:55:VAL:O	45:BN:56:ASN:C	2.58	0.46
45:BN:119:ARG:NH1	45:BN:119:ARG:HG3	2.31	0.46
46:BO:69:ILE:HD13	46:BO:77:ILE:HG23	1.96	0.46
47:BP:80:TYR:CE1	47:BP:111:ARG:HD3	2.51	0.46
48:BQ:59:ARG:HB2	57:BZ:180:VAL:HB	1.97	0.46
48:BQ:60:ARG:CA	57:BZ:178:GLU:O	2.64	0.46
51:BT:3:ARG:HB3	51:BT:6:LEU:CB	2.46	0.46
51:BT:117:ASP:O	51:BT:121:ILE:HG13	2.15	0.46
53:BV:72:VAL:HG23	53:BV:72:VAL:O	2.15	0.46
56:BY:31:LEU:N	56:BY:31:LEU:CD2	2.76	0.46
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG22	1.98	0.46
1:CA:153:C:O2'	1:CA:154:C:H5'	2.16	0.46
1:CA:456:C:H2'	1:CA:457:C:H6	1.80	0.46
1:CA:799:G:O6	1:CA:800:G:C2	2.69	0.46
1:CA:858:G:O6	1:CA:869:G:H3'	2.16	0.46
1:CA:1027:C:H1'	1:CA:1035:A:C2	2.50	0.46
1:CA:1183:A:H5"	1:CA:1184:G:OP2	2.15	0.46
1:CA:1326:C:H2'	1:CA:1327:C:C6	2.50	0.46
12:CL:60:LEU:CD2	12:CL:65:GLU:HA	2.45	0.46
19:CS:45:VAL:HG12	19:CS:63:THR:CA	2.38	0.46
22:CV:51:G:H2'	22:CV:52:C:H6	1.80	0.46
23:CW:19:G:HO2'	23:CW:20:G:C4'	2.29	0.46
23:CW:35:U:H3'	23:CW:35:U:P	2.54	0.46
23:CW:38:U:O2	23:CW:39:A:N7	2.49	0.46
25:D0:27:GLU:C	25:D0:29:GLN:N	2.71	0.46
31:D6:7:ILE:CG1	31:D6:29:ASN:HD21	2.27	0.46
35:DA:706:A:H2'	35:DA:707:G:O4'	2.16	0.46
35:DA:776:G:H4'	35:DA:777:A:O5'	2.15	0.46
39:DE:36:ARG:HG2	39:DE:36:ARG:NH1	2.30	0.46
39:DE:50:GLY:HA2	39:DE:78:LEU:HB3	1.96	0.46
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.50	0.46
41:DG:96:ARG:O	41:DG:99:MET:HB3	2.15	0.46
42:DH:107:VAL:HG23	42:DH:107:VAL:O	2.15	0.46
43:DI:38:LEU:CB	43:DI:40:THR:HG23	2.45	0.46
43:DI:97:ILE:HG22	43:DI:101:LEU:HD22	1.96	0.46
45:DN:65:LYS:HD2	45:DN:69:GLN:HE21	1.81	0.46
48:DQ:111:GLU:O	48:DQ:115:MET:HG2	2.16	0.46
49:DR:31:HIS:C	49:DR:33:ARG:N	2.72	0.46
49:DR:55:ALA:CB	49:DR:79:LEU:HD22	2.46	0.46
50:DS:13:ARG:O	50:DS:14:VAL:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:54:LEU:C	50:DS:57:LYS:H	2.24	0.46
51:DT:52:ILE:HG23	51:DT:61:PHE:HB3	1.97	0.46
54:DW:20:VAL:CG2	54:DW:47:VAL:HG21	2.45	0.46
57:DZ:27:VAL:HG23	57:DZ:36:LYS:CA	2.45	0.46
1:AA:123:C:OP1	1:AA:311:C:O2'	2.32	0.46
1:AA:334:C:O2'	1:AA:335:C:H5'	2.16	0.46
1:AA:443:C:H2'	1:AA:444:C:C6	2.51	0.46
1:AA:519:C:OP2	12:AL:50:SER:OG	2.27	0.46
1:AA:541:G:O2'	1:AA:542:G:H5'	2.16	0.46
1:AA:627:G:O2'	1:AA:628:G:H5'	2.16	0.46
1:AA:709:G:O2'	1:AA:710:G:H5'	2.16	0.46
1:AA:865:A:H5'	1:AA:1078:U:C4	2.51	0.46
1:AA:963:G:N2	10:AJ:55:LYS:NZ	2.61	0.46
1:AA:1112:C:H1'	3:AC:179:ARG:CD	2.46	0.46
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.49	0.46
1:AA:1183:A:H5"	1:AA:1184:G:OP2	2.16	0.46
1:AA:1259:C:H42	1:AA:1276:G:H1	1.62	0.46
1:AA:1472:U:O2'	1:AA:1473:A:H5'	2.16	0.46
2:AB:71:VAL:HG13	2:AB:93:VAL:HB	1.98	0.46
2:AB:97:TRP:CE2	2:AB:173:ALA:HB2	2.49	0.46
2:AB:231:GLU:HB2	2:AB:232:PRO:CD	2.46	0.46
3:AC:9:GLY:HA3	14:AN:49:HIS:HA	1.96	0.46
5:AE:9:LYS:O	5:AE:32:VAL:HG13	2.16	0.46
7:AG:67:GLU:HA	7:AG:67:GLU:OE1	2.16	0.46
7:AG:132:GLY:C	7:AG:134:ALA:N	2.73	0.46
9:AI:37:PHE:HB3	9:AI:43:ALA:CB	2.46	0.46
9:AI:79:LEU:HD13	9:AI:79:LEU:C	2.40	0.46
10:AJ:6:ILE:CD1	10:AJ:72:VAL:HB	2.42	0.46
12:AL:28:LYS:O	12:AL:29:GLY:C	2.59	0.46
20:AT:39:LYS:O	20:AT:42:GLN:HB3	2.16	0.46
23:AW:25:A:C6	23:AW:26:G:C6	3.03	0.46
23:AW:53:U:C4	23:AW:54:G:C8	3.04	0.46
23:AW:71:G:C8	23:AW:71:G:H3'	2.50	0.46
22:AY:5:C:C4	22:AY:6:C:N4	2.84	0.46
28:B3:42:ALA:C	28:B3:44:ARG:N	2.72	0.46
33:B8:52:LYS:HE2	35:BA:834:C:H4'	1.96	0.46
38:BD:239:ARG:HH11	38:BD:239:ARG:HG2	1.81	0.46
40:BF:116:ASP:OD2	47:BP:5:ASP:HB2	2.16	0.46
40:BF:125:LEU:HD12	40:BF:196:LEU:HG	1.98	0.46
41:BG:5:VAL:O	41:BG:6:ALA:C	2.59	0.46
41:BG:162:THR:O	41:BG:163:ALA:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:157:TYR:HE1	42:BH:171:LEU:N	2.12	0.46
43:BI:98:ALA:HB1	43:BI:109:ILE:HD13	1.98	0.46
49:BR:38:VAL:O	49:BR:42:LYS:HG3	2.16	0.46
49:BR:65:LEU:N	49:BR:65:LEU:HD12	2.30	0.46
51:BT:89:VAL:CG1	51:BT:91:ARG:HG3	2.45	0.46
52:BU:91:ASP:O	52:BU:92:ARG:C	2.56	0.46
53:BV:99:ILE:HD13	53:BV:99:ILE:N	2.29	0.46
55:BX:34:ALA:HB1	55:BX:39:ILE:HD11	1.98	0.46
56:BY:39:VAL:CG1	56:BY:40:GLU:H	2.24	0.46
1:CA:1269:A:OP1	21:CU:24:ARG:HD2	2.16	0.46
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.16	0.46
1:CA:1522:U:C2	1:CA:1523:G:C8	3.04	0.46
2:CB:48:MET:C	2:CB:48:MET:HE2	2.41	0.46
4:CD:22:LYS:O	4:CD:113:SER:HB3	2.15	0.46
4:CD:96:LEU:HD12	4:CD:96:LEU:N	2.30	0.46
5:CE:80:ILE:HA	8:CH:104:ARG:NH1	2.31	0.46
5:CE:105:VAL:CB	5:CE:106:PRO:CD	2.94	0.46
6:CF:81:ILE:O	6:CF:82:ARG:C	2.58	0.46
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.30	0.46
9:CI:9:ARG:HA	9:CI:13:ALA:O	2.15	0.46
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.62	0.46
10:CJ:3:LYS:HD2	10:CJ:77:PRO:HD3	1.98	0.46
10:CJ:22:LYS:C	10:CJ:24:VAL:N	2.72	0.46
12:CL:35:GLY:CA	12:CL:58:VAL:CG1	2.91	0.46
14:CN:41:ARG:HG3	14:CN:42:ILE:HD13	1.98	0.46
19:CS:25:LYS:O	19:CS:26:GLY:C	2.58	0.46
22:CV:42:C:C2'	22:CV:43:G:H5'	2.46	0.46
23:CW:36:C:O2	23:CW:36:C:C2'	2.64	0.46
22:CY:26:G:H2'	22:CY:27:C:O4'	2.16	0.46
22:CY:43:G:N1	22:CY:44:A:C5	2.83	0.46
30:D5:29:THR:HG21	35:DA:2814:C:O2'	2.16	0.46
33:D8:23:VAL:HG12	33:D8:46:ARG:HB3	1.97	0.46
33:D8:38:GLY:O	33:D8:42:ARG:HB2	2.15	0.46
34:D9:19:ARG:HA	35:DA:2757:A:OP1	2.15	0.46
35:DA:174:C:O2	35:DA:174:C:H2'	2.16	0.46
35:DA:613:G:C5'	35:DA:613:G:C8	2.93	0.46
35:DA:2801(A):A:H4'	35:DA:2802:G:C5'	2.35	0.46
37:DC:48:LEU:HD12	37:DC:48:LEU:N	2.30	0.46
38:DD:173:VAL:HG22	38:DD:174:ILE:N	2.30	0.46
40:DF:22:ALA:C	40:DF:24:LEU:N	2.74	0.46
40:DF:133:ASN:O	40:DF:135:LYS:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:155:LEU:HD22	40:DF:186:ILE:HA	1.98	0.46
42:DH:163:TYR:N	42:DH:163:TYR:CD1	2.84	0.46
43:DI:27:ARG:HG3	43:DI:27:ARG:NH1	2.20	0.46
45:DN:1:MET:O	45:DN:2:LYS:HG3	2.15	0.46
45:DN:96:GLU:H	45:DN:96:GLU:CD	2.16	0.46
48:DQ:45:GLN:H	48:DQ:45:GLN:NE2	2.14	0.46
48:DQ:54:MET:HE1	48:DQ:104:PHE:HB3	1.96	0.46
48:DQ:135:ASP:C	48:DQ:137:TYR:H	2.23	0.46
50:DS:16:ASN:C	50:DS:18:ILE:N	2.73	0.46
50:DS:31:SER:C	50:DS:33:LYS:N	2.72	0.46
50:DS:87:PHE:CG	50:DS:88:ASP:N	2.84	0.46
50:DS:95:HIS:O	50:DS:98:VAL:HG23	2.16	0.46
56:DY:32:PRO:O	56:DY:35:TYR:N	2.45	0.46
56:DY:95:LYS:CG	56:DY:101:LYS:H	2.25	0.46
57:DZ:11:GLU:N	57:DZ:11:GLU:CD	2.74	0.46
57:DZ:40:ASP:OD1	57:DZ:41:LEU:N	2.49	0.46
1:AA:136:C:C5'	16:AP:1:MET:HE3	2.46	0.46
1:AA:250:A:H4'	1:AA:251:G:O5'	2.16	0.46
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.16	0.46
1:AA:1145:C:H4'	1:AA:1146:A:H5'	1.97	0.46
1:AA:1300:G:O2'	1:AA:1301:U:P	2.74	0.46
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.16	0.46
3:AC:143:GLU:C	3:AC:145:GLY:H	2.24	0.46
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.81	0.46
4:AD:78:LEU:O	4:AD:79:PHE:C	2.58	0.46
5:AE:76:ILE:HD11	5:AE:142:LEU:CD2	2.45	0.46
6:AF:8:ILE:CD1	6:AF:26:ILE:HD13	2.45	0.46
6:AF:28:ARG:O	6:AF:29:ALA:C	2.58	0.46
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.97	0.46
10:AJ:61:GLU:CG	14:AN:58:LYS:HE2	2.46	0.46
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.31	0.46
18:AR:65:ILE:O	18:AR:69:THR:HG23	2.16	0.46
20:AT:13:LEU:N	20:AT:13:LEU:CD1	2.78	0.46
20:AT:82:SER:O	20:AT:86:ARG:HD2	2.16	0.46
20:AT:89:ARG:HB2	20:AT:104:LEU:CD1	2.41	0.46
22:AV:56:U:C2'	22:AV:57:U:H5'	2.46	0.46
23:AW:19:G:HO2'	23:AW:20:G:C4'	2.29	0.46
23:AW:54:G:C2	23:AW:55:G:C8	3.04	0.46
22:AY:72:C:H3'	22:AY:72:C:O2	2.16	0.46
35:BA:139:G:H2'	35:BA:140:G:N7	2.30	0.46
35:BA:624:C:O2'	35:BA:657:U:H5"	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1045:A:H3'	35:BA:1045:A:N3	2.31	0.46
35:BA:1291:C:H5'	35:BA:1534:U:O2'	2.14	0.46
35:BA:1459:G:C8	35:BA:1461:G:H1'	2.51	0.46
35:BA:2154:G:O2'	35:BA:2155:G:H5'	2.16	0.46
35:BA:2392:A:H2	35:BA:2424:C:N4	1.99	0.46
35:BA:2892:A:H62	35:BA:2893:G:H21	1.61	0.46
36:BB:50:G:OP1	50:BS:63:THR:HG23	2.16	0.46
38:BD:30:GLU:CG	38:BD:63:ARG:CZ	2.85	0.46
38:BD:176:ARG:HG2	38:BD:176:ARG:NH1	2.23	0.46
39:BE:51:PHE:N	39:BE:74:PRO:CB	2.79	0.46
39:BE:129:HIS:O	39:BE:130:GLY:O	2.34	0.46
40:BF:160:ASN:C	40:BF:162:LEU:H	2.23	0.46
41:BG:75:LYS:HB3	41:BG:76:SER:H	1.58	0.46
46:BO:24:VAL:O	46:BO:24:VAL:HG13	2.16	0.46
47:BP:48:PRO:O	47:BP:51:PHE:N	2.48	0.46
47:BP:83:VAL:CG1	47:BP:112:LEU:HD21	2.46	0.46
49:BR:2:ARG:N	49:BR:2:ARG:NH1	2.47	0.46
49:BR:38:VAL:HB	49:BR:39:PRO:CD	2.37	0.46
50:BS:31:SER:C	50:BS:33:LYS:H	2.24	0.46
55:BX:65:ARG:HH11	55:BX:65:ARG:HG2	1.80	0.46
57:BZ:31:ARG:NH1	57:BZ:31:ARG:CB	2.79	0.46
1:CA:237:C:H2'	1:CA:238:G:H8	1.81	0.46
1:CA:262:A:C6	1:CA:263:A:C6	3.03	0.46
1:CA:823:G:H21	8:CH:1:MET:HE1	1.81	0.46
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.51	0.46
2:CB:24:TRP:H	2:CB:24:TRP:HD1	1.59	0.46
5:CE:79:GLU:N	5:CE:79:GLU:OE1	2.49	0.46
7:CG:5:ARG:O	7:CG:7:ALA:N	2.47	0.46
7:CG:120:ILE:HG22	7:CG:124:LEU:HD12	1.96	0.46
9:CI:65:VAL:O	9:CI:65:VAL:HG13	2.15	0.46
13:CM:70:LEU:O	13:CM:74:VAL:HG23	2.16	0.46
13:CM:89:GLY:HA2	13:CM:93:ARG:HH11	1.80	0.46
22:CY:4:C:C2	22:CY:5:C:C5	3.04	0.46
22:CY:19:G:H21	22:CY:59:G:H2'	1.75	0.46
22:CY:56:U:H6	22:CY:56:U:P	2.37	0.46
22:CY:68:A:C6	22:CY:69:G:C5	3.03	0.46
25:D0:36:ILE:HD11	25:D0:39:ARG:HG2	1.97	0.46
34:D9:27:CYS:SG	34:D9:28:GLU:N	2.89	0.46
35:DA:598:G:H2'	35:DA:599:G:O4'	2.14	0.46
35:DA:942:G:O2'	35:DA:943:U:H5'	2.16	0.46
35:DA:1006:C:C2	35:DA:1138:G:N2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1014:U:H2'	35:DA:1015:G:H5'	1.97	0.46
35:DA:1712:C:O2'	35:DA:1713:U:H5'	2.16	0.46
35:DA:1755:A:H2'	35:DA:1756:G:H5'	1.96	0.46
35:DA:2732:G:C2'	35:DA:2733:A:H5'	2.45	0.46
36:DB:103:G:O2'	36:DB:104:U:H5'	2.16	0.46
37:DC:14:LYS:O	37:DC:29:LEU:HD11	2.16	0.46
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	1.96	0.46
39:DE:24:THR:HG22	39:DE:186:GLY:CA	2.46	0.46
41:DG:53:LEU:N	41:DG:53:LEU:HD22	2.31	0.46
45:DN:19:GLU:HG3	45:DN:20:GLY:N	2.30	0.46
46:DO:14:THR:HG21	46:DO:86:ILE:HB	1.97	0.46
46:DO:24:VAL:HG23	46:DO:33:ALA:HB2	1.97	0.46
47:DP:39:LYS:O	47:DP:41:ARG:HG2	2.16	0.46
47:DP:125:VAL:O	47:DP:125:VAL:HG13	2.15	0.46
48:DQ:12:GLN:HE21	48:DQ:73:PRO:HD3	1.81	0.46
49:DR:28:LEU:HD21	49:DR:114:VAL:HG12	1.97	0.46
50:DS:14:VAL:O	50:DS:14:VAL:HG12	2.15	0.46
51:DT:28:VAL:CG2	51:DT:46:GLU:HA	2.42	0.46
53:DV:69:LYS:HG3	53:DV:70:ILE:N	2.31	0.46
54:DW:4:LYS:HA	54:DW:106:ILE:HG22	1.98	0.46
54:DW:10:VAL:O	54:DW:11:ARG:CB	2.54	0.46
56:DY:2:ARG:HD3	56:DY:3:VAL:N	2.30	0.46
57:DZ:6:LYS:HE3	57:DZ:43:GLU:OE2	2.15	0.46
57:DZ:103:ARG:HB2	57:DZ:136:PHE:HB2	1.97	0.46
57:DZ:155:LEU:H	57:DZ:155:LEU:CD2	2.29	0.46
1:AA:63:C:N4	1:AA:104:G:H1	2.13	0.46
1:AA:146:G:N2	1:AA:147:G:H1'	2.31	0.46
1:AA:827:U:O5'	1:AA:827:U:H6	1.99	0.46
1:AA:1073:U:H3	1:AA:1102:A:H61	1.63	0.46
1:AA:1319:A:OP2	19:AS:5:LEU:HD23	2.16	0.46
1:AA:1374:A:O4'	7:AG:31:MET:HE1	2.15	0.46
3:AC:188:LEU:O	3:AC:190:ARG:HG3	2.15	0.46
5:AE:26:PHE:O	5:AE:27:ARG:HB2	2.16	0.46
5:AE:41:VAL:HG11	5:AE:113:ALA:HA	1.98	0.46
5:AE:135:THR:O	5:AE:136:MET:C	2.59	0.46
8:AH:91:ARG:CG	8:AH:91:ARG:NH1	2.77	0.46
22:AV:3:G:H8	22:AV:3:G:OP2	1.99	0.46
22:AV:10:G:N1	22:AV:28:G:C4	2.84	0.46
22:AY:23:A:C2'	22:AY:24:A:C8	2.96	0.46
25:B0:23:VAL:HG13	25:B0:38:VAL:HG22	1.98	0.46
26:B1:83:GLU:O	26:B1:84:GLY:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:7:PRO:HG2	41:BG:61:ALA:O	2.15	0.46
33:B8:30:ARG:HA	33:B8:30:ARG:NE	2.22	0.46
35:BA:363(F):A:O2'	35:BA:364:C:C5	2.63	0.46
35:BA:2305:A:O2'	41:BG:136:ARG:NE	2.49	0.46
35:BA:2572:A:N7	39:BE:144:ARG:HD2	2.31	0.46
35:BA:2747:G:O2'	42:BH:67:LEU:HD13	2.15	0.46
35:BA:2855:C:O2'	35:BA:2856:C:H5'	2.16	0.46
38:BD:33:LEU:HD23	38:BD:33:LEU:C	2.41	0.46
39:BE:132:HIS:CG	39:BE:135:HIS:NE2	2.84	0.46
43:BI:10:GLU:CD	43:BI:11:ASN:N	2.74	0.46
45:BN:57:ALA:C	45:BN:58:ASP:OD1	2.59	0.46
45:BN:89:LYS:O	45:BN:93:THR:CG2	2.64	0.46
47:BP:146:VAL:CG2	47:BP:147:LEU:N	2.66	0.46
48:BQ:67:ARG:HB3	48:BQ:102:VAL:O	2.16	0.46
49:BR:103:ARG:HD3	49:BR:108:GLY:O	2.16	0.46
50:BS:13:ARG:O	50:BS:14:VAL:C	2.58	0.46
51:BT:65:LYS:NZ	51:BT:66:VAL:H	2.14	0.46
51:BT:128:GLU:CD	51:BT:128:GLU:C	2.84	0.46
53:BV:19:LYS:CE	53:BV:20:LEU:H	2.26	0.46
54:BW:4:LYS:HA	54:BW:106:ILE:HG22	1.98	0.46
57:BZ:40:ASP:OD1	57:BZ:43:GLU:HG2	2.16	0.46
57:BZ:145:GLU:O	57:BZ:147:GLY:N	2.49	0.46
1:CA:1287:A:H2	1:CA:1353:G:H1'	1.81	0.46
3:CC:40:ARG:CA	3:CC:55:VAL:HG11	2.42	0.46
4:CD:45:GLN:O	4:CD:45:GLN:HG3	2.16	0.46
4:CD:76:ARG:O	4:CD:77:ASN:C	2.59	0.46
6:CF:28:ARG:O	6:CF:29:ALA:C	2.58	0.46
7:CG:65:ALA:HB1	7:CG:127:ALA:HB3	1.96	0.46
8:CH:6:ILE:HB	8:CH:85:ARG:NH2	2.31	0.46
8:CH:91:ARG:NH1	17:CQ:33:GLY:HA3	2.29	0.46
11:CK:22:HIS:HB3	11:CK:29:ILE:CG2	2.41	0.46
11:CK:108:ILE:HG21	18:CR:88:LYS:OXT	2.15	0.46
12:CL:54:LYS:H	12:CL:54:LYS:CD	2.21	0.46
12:CL:60:LEU:C	12:CL:62:SER:H	2.24	0.46
13:CM:32:GLU:O	13:CM:35:GLU:HG2	2.16	0.46
22:CY:19:G:C2	22:CY:59:G:N3	2.84	0.46
22:CY:44:A:C6	22:CY:45:U:C4	3.03	0.46
22:CY:70:G:C2	22:CY:71:G:C4	3.04	0.46
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.48	0.46
35:DA:154(A):C:H3'	35:DA:155:U:H5"	1.96	0.46
35:DA:524:U:H4'	35:DA:555:U:H4'	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:588:U:H6	35:DA:588:U:O5'	1.99	0.46
35:DA:680:G:O2'	35:DA:681:G:H5'	2.16	0.46
35:DA:1805:U:O2	38:DD:50:THR:HB	2.15	0.46
35:DA:2001:A:H2'	35:DA:2002:G:C8	2.51	0.46
35:DA:2369:A:O2'	35:DA:2370:G:H5'	2.16	0.46
35:DA:2397:G:N2	35:DA:2420:C:H1'	2.31	0.46
36:DB:45:A:H2'	36:DB:45:A:N3	2.29	0.46
36:DB:94:C:O2'	36:DB:95:C:H5'	2.15	0.46
39:DE:5:LEU:HG	39:DE:49:LEU:HD12	1.98	0.46
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.41	0.46
41:DG:100:TRP:CD1	41:DG:100:TRP:H	2.32	0.46
42:DH:18:GLU:O	42:DH:24:VAL:HG23	2.15	0.46
43:DI:79:ILE:O	43:DI:143:SER:OG	2.32	0.46
45:DN:119:ARG:HG3	45:DN:119:ARG:NH1	2.31	0.46
45:DN:134:ARG:H	45:DN:135:PRO:HD3	1.80	0.46
46:DO:80:ASP:O	46:DO:81:ASP:HB3	2.16	0.46
47:DP:33:ARG:HG3	47:DP:34:GLY:H	1.81	0.46
47:DP:126:VAL:HG22	47:DP:145:PRO:HG2	1.98	0.46
47:DP:146:VAL:O	47:DP:148:LEU:HG	2.16	0.46
48:DQ:39:PRO:HD3	48:DQ:99:PRO:HG3	1.98	0.46
51:DT:132:LYS:C	51:DT:134:GLU:N	2.74	0.46
53:DV:22:VAL:O	53:DV:23:GLU:HB2	2.15	0.46
53:DV:52:VAL:CG1	53:DV:55:ALA:HB3	2.39	0.46
57:DZ:114:GLY:O	57:DZ:177:PRO:HD3	2.16	0.46
1:AA:313:A:H2'	1:AA:314:C:C6	2.51	0.46
1:AA:476:G:H2'	1:AA:477:A:C8	2.51	0.46
1:AA:853:G:H2'	1:AA:854:G:H8	1.81	0.46
1:AA:935:A:H2'	1:AA:936:C:C6	2.51	0.46
1:AA:983:A:H3'	1:AA:983:A:N3	2.31	0.46
1:AA:1228:C:OP1	13:AM:115:LYS:HE3	2.16	0.46
2:AB:59:GLU:O	2:AB:62:ALA:HB3	2.16	0.46
2:AB:67:THR:HG22	2:AB:90:MET:HE1	1.98	0.46
3:AC:22:TRP:HB2	3:AC:23:TYR:H	1.66	0.46
3:AC:178:LEU:N	3:AC:178:LEU:HD22	2.31	0.46
6:AF:62:TRP:C	6:AF:63:TYR:CD1	2.84	0.46
9:AI:24:GLY:N	9:AI:60:ASP:OD1	2.44	0.46
10:AJ:70:ARG:HG2	10:AJ:70:ARG:NH1	2.30	0.46
10:AJ:75:ILE:CG1	10:AJ:76:ASN:N	2.79	0.46
16:AP:18:ARG:CG	16:AP:35:LYS:HE3	2.46	0.46
22:AV:14:A:N6	22:AV:24:A:N7	2.64	0.46
22:AV:20:G:N2	22:AV:58:C:N3	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:30:U:N1	23:AW:31:C:C5	2.84	0.46
23:AW:33:G:C2'	23:AW:34:C:C4'	2.94	0.46
23:AW:45:U:C5	23:AW:46:U:C4	3.04	0.46
22:AY:42:C:H2'	22:AY:43:G:H8	1.81	0.46
27:B2:2:LYS:HE3	27:B2:5:GLU:OE1	2.16	0.46
29:B4:5:ILE:N	29:B4:5:ILE:CD1	2.75	0.46
31:B6:48:VAL:CG2	31:B6:49:HIS:H	2.21	0.46
35:BA:408:G:O2'	35:BA:409:C:H5'	2.16	0.46
35:BA:661:C:H2'	35:BA:662:G:H8	1.80	0.46
35:BA:1188:U:H2'	35:BA:1189:A:H5'	1.96	0.46
35:BA:1281:G:H8	35:BA:1281:G:C5'	2.27	0.46
35:BA:1491:G:O2'	38:BD:101:GLU:HB2	2.16	0.46
35:BA:1721:G:H8	35:BA:1741:A:H62	1.64	0.46
35:BA:1951:U:H2'	35:BA:1953:A:OP2	2.16	0.46
35:BA:2101:G:H2'	35:BA:2102:U:O4'	2.15	0.46
35:BA:2163:C:H2'	35:BA:2164:C:O4'	2.16	0.46
35:BA:2443:C:O2'	35:BA:2444:G:H5'	2.16	0.46
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.51	0.46
41:BG:71:THR:HB	41:BG:89:GLY:O	2.16	0.46
42:BH:9:ILE:HG12	42:BH:73:ALA:HB2	1.99	0.46
43:BI:98:ALA:O	43:BI:101:LEU:HB3	2.15	0.46
44:BJ:125:UNK:C	44:BJ:127:UNK:N	2.75	0.46
45:BN:90:MET:HE2	45:BN:90:MET:HA	1.97	0.46
49:BR:58:GLY:HA2	49:BR:80:PHE:CE1	2.48	0.46
50:BS:97:ARG:HG2	50:BS:97:ARG:HH11	1.81	0.46
52:BU:65:ILE:CD1	52:BU:96:ALA:HB3	2.45	0.46
53:BV:69:LYS:HG3	53:BV:70:ILE:N	2.30	0.46
54:BW:24:ILE:O	54:BW:25:ARG:C	2.59	0.46
56:BY:7:VAL:CB	56:BY:8:LYS:HD2	2.46	0.46
57:BZ:24:LEU:HD23	57:BZ:24:LEU:O	2.16	0.46
57:BZ:108:PRO:CB	57:BZ:144:LEU:HB2	2.45	0.46
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.30	0.46
1:CA:827:U:O5'	1:CA:827:U:H6	1.98	0.46
1:CA:961:U:O5'	1:CA:961:U:H6	1.98	0.46
1:CA:1067:A:N3	1:CA:1068:G:H1'	2.31	0.46
2:CB:67:THR:HG22	2:CB:90:MET:HE1	1.98	0.46
3:CC:103:VAL:CG1	3:CC:104:GLN:H	2.29	0.46
4:CD:61:LYS:NZ	4:CD:62:GLN:HE21	2.13	0.46
6:CF:8:ILE:CD1	6:CF:26:ILE:HD13	2.45	0.46
10:CJ:61:GLU:CG	14:CN:58:LYS:HE2	2.46	0.46
22:CV:5:C:C4	22:CV:6:C:N4	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:15:G:C8	22:CV:16:U:C5	3.04	0.46
22:CV:52:C:O2'	22:CV:53:U:H5'	2.15	0.46
23:CW:14:A:C2	23:CW:24:A:C5	3.04	0.46
23:CW:47:G:H8	23:CW:47:G:O5'	1.98	0.46
23:CW:53:U:C4	23:CW:54:G:C8	3.05	0.46
23:CW:54:G:N3	23:CW:54:G:H2'	2.30	0.46
23:CW:68:A:C4	23:CW:69:G:H8	2.34	0.46
25:D0:6:GLY:O	25:D0:7:LEU:HD23	2.14	0.46
29:D4:34:GLU:HB2	41:DG:113:ARG:HD2	1.97	0.46
30:D5:52:TYR:O	30:D5:53:ALA:HB2	2.15	0.46
31:D6:26:ASN:OD1	31:D6:27:LYS:N	2.47	0.46
33:D8:13:ARG:HD2	47:DP:61:ARG:NH1	2.30	0.46
33:D8:49:VAL:HG23	33:D8:53:PRO:HB3	1.98	0.46
35:DA:139:G:H2'	35:DA:140:G:N7	2.30	0.46
35:DA:1453:U:O4'	49:DR:63:ARG:HD3	2.16	0.46
35:DA:1510:G:O2'	35:DA:1511:C:H5'	2.16	0.46
35:DA:2061:G:H5"	35:DA:2503:A:C2	2.51	0.46
35:DA:2291:U:O2'	35:DA:2374:C:H1'	2.17	0.46
35:DA:2389:G:H5"	35:DA:2390:U:O4'	2.16	0.46
35:DA:2638:G:OP1	39:DE:82:ARG:NH2	2.49	0.46
35:DA:2769:C:H2'	35:DA:2770:G:O4'	2.16	0.46
36:DB:28:C:OP1	50:DS:31:SER:OG	2.33	0.46
37:DC:36:ALA:C	37:DC:38:PHE:H	2.24	0.46
40:DF:8:GLN:O	40:DF:10:PRO:N	2.49	0.46
40:DF:184:TYR:O	40:DF:188:ARG:HG2	2.16	0.46
43:DI:10:GLU:CD	43:DI:11:ASN:N	2.74	0.46
43:DI:127:VAL:HG22	43:DI:139:GLN:CB	2.46	0.46
46:DO:76:ALA:HB3	51:DT:75:ILE:HD12	1.97	0.46
47:DP:61:ARG:H	47:DP:61:ARG:CD	2.12	0.46
47:DP:71:VAL:O	47:DP:72:PRO:C	2.56	0.46
52:DU:31:SER:C	52:DU:33:ARG:N	2.73	0.46
53:DV:15:GLU:CB	53:DV:16:PRO:HD2	2.34	0.46
54:DW:36:LEU:HD12	54:DW:48:ALA:HA	1.97	0.46
55:DX:12:VAL:HG11	55:DX:27:THR:CG2	2.46	0.46
56:DY:18:GLY:C	56:DY:20:TYR:N	2.71	0.46
57:DZ:43:GLU:HG2	57:DZ:44:PHE:N	2.30	0.46
1:AA:9:G:O2'	1:AA:10:A:H5'	2.17	0.45
1:AA:237:C:O2'	1:AA:238:G:H5'	2.16	0.45
1:AA:438:G:H4'	1:AA:439:A:OP1	2.16	0.45
1:AA:502:G:C6	1:AA:503:C:C4	3.04	0.45
1:AA:1080:A:H5"	5:AE:16:THR:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1212:U:H4'	1:AA:1213:A:C8	2.51	0.45
1:AA:1262:C:H42	1:AA:1273:G:H1	1.61	0.45
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.81	0.45
3:AC:206:GLU:O	3:AC:208:ILE:N	2.49	0.45
4:AD:4:TYR:CG	4:AD:5:ILE:N	2.81	0.45
7:AG:128:ALA:C	7:AG:130:GLY:H	2.24	0.45
8:AH:64:LYS:CG	8:AH:79:VAL:HG21	2.46	0.45
12:AL:26:ALA:C	12:AL:27:LEU:HD22	2.41	0.45
12:AL:38:THR:HG22	12:AL:57:LYS:O	2.16	0.45
12:AL:73:GLU:O	12:AL:110:VAL:HG13	2.16	0.45
17:AQ:9:VAL:O	17:AQ:9:VAL:HG23	2.16	0.45
17:AQ:65:ILE:HD11	17:AQ:72:ARG:HG2	1.97	0.45
18:AR:50:ILE:HD12	18:AR:70:ILE:HD12	1.98	0.45
22:AV:28:G:C6	22:AV:29:A:C5	3.04	0.45
22:AV:30:U:C2	22:AV:31:C:C6	3.04	0.45
23:AW:76:C:H2'	23:AW:77:C:C6	2.51	0.45
26:B1:3:LYS:HG3	26:B1:4:VAL:H	1.81	0.45
35:BA:251:A:H5"	47:BP:51:PHE:CZ	2.50	0.45
35:BA:1027:A:C2	35:BA:2488:A:H5'	2.50	0.45
35:BA:1180:C:O2	35:BA:1180:C:H2'	2.15	0.45
35:BA:1509(A):A:H2'	35:BA:1509(B):A:H8	1.80	0.45
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.46	0.45
35:BA:2098:U:H2'	35:BA:2099:U:O4'	2.15	0.45
35:BA:2881:C:C2	35:BA:2882:A:C8	3.04	0.45
38:BD:35:LYS:C	38:BD:35:LYS:CD	2.78	0.45
38:BD:40:THR:HG22	38:BD:41:GLY:O	2.15	0.45
39:BE:117:MET:HE3	39:BE:124:GLY:HA3	1.97	0.45
39:BE:120:TRP:CE3	39:BE:155:LYS:HD3	2.50	0.45
42:BH:41:MET:CE	42:BH:42:ARG:N	2.76	0.45
47:BP:7:ARG:HB3	47:BP:7:ARG:CZ	2.47	0.45
48:BQ:57:HIS:CD2	48:BQ:116:GLU:HG3	2.51	0.45
52:BU:66:ASN:HB2	52:BU:76:TYR:HB2	1.98	0.45
52:BU:108:GLU:HG3	53:BV:44:LYS:CD	2.37	0.45
53:BV:7:THR:O	53:BV:7:THR:HG23	2.14	0.45
56:BY:25:GLY:HA3	56:BY:39:VAL:CG1	2.46	0.45
1:CA:141:A:H2'	1:CA:142:G:C8	2.51	0.45
1:CA:443:C:H2'	1:CA:444:C:C6	2.51	0.45
1:CA:1086:U:O5'	1:CA:1086:U:H6	1.98	0.45
1:CA:1400:C:O5'	1:CA:1400:C:C6	2.62	0.45
2:CB:116:GLU:HA	2:CB:119:GLU:HB2	1.99	0.45
5:CE:17:ALA:HA	5:CE:26:PHE:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:51:ARG:HG3	10:CJ:60:ARG:C	2.40	0.45
14:CN:23:ARG:HD2	14:CN:28:GLY:O	2.17	0.45
23:CW:40:A:C5	23:CW:42:C:C4	3.04	0.45
23:CW:76:C:H2'	23:CW:77:C:C6	2.51	0.45
22:CY:49:G:C3'	22:CY:50:C:C5'	2.84	0.45
26:D1:58:ILE:O	26:D1:58:ILE:HG13	2.16	0.45
29:D4:25:TYR:CD1	41:DG:5:VAL:HG22	2.51	0.45
35:DA:146:G:C2'	35:DA:147:U:H5'	2.46	0.45
35:DA:402:A:O2'	35:DA:403:U:H5'	2.16	0.45
35:DA:572:A:H2'	35:DA:573:G:O4'	2.16	0.45
35:DA:662:G:OP1	47:DP:18:ARG:CD	2.61	0.45
35:DA:1755:A:C2	35:DA:2716:U:H1'	2.51	0.45
35:DA:2154:G:O2'	35:DA:2155:G:H5'	2.16	0.45
35:DA:2558:C:H2'	35:DA:2559:C:C6	2.51	0.45
39:DE:39:PRO:HA	39:DE:43:GLY:CA	2.46	0.45
41:DG:118:ARG:CG	41:DG:118:ARG:NH1	2.79	0.45
41:DG:125:PHE:HD2	41:DG:131:TYR:HB2	1.80	0.45
41:DG:167:GLU:O	41:DG:170:ARG:HB3	2.17	0.45
45:DN:123:TYR:OH	45:DN:130:HIS:HE1	1.96	0.45
47:DP:33:ARG:O	47:DP:34:GLY:C	2.58	0.45
51:DT:95:ARG:HH11	51:DT:95:ARG:CB	2.24	0.45
53:DV:3:ALA:HA	53:DV:40:LEU:O	2.16	0.45
56:DY:27:VAL:C	56:DY:28:LYS:HZ1	2.24	0.45
56:DY:95:LYS:HD3	56:DY:100:ALA:CA	2.45	0.45
1:AA:141:A:H2'	1:AA:142:G:C8	2.50	0.45
1:AA:176:C:H2'	1:AA:177:C:C6	2.52	0.45
1:AA:386:C:O2'	1:AA:387:U:H5'	2.16	0.45
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.16	0.45
2:AB:79:ASP:O	2:AB:81:VAL:N	2.49	0.45
3:AC:11:ARG:O	3:AC:14:ILE:O	2.34	0.45
4:AD:9:CYS:SG	4:AD:31:CYS:C	2.99	0.45
4:AD:79:PHE:HD1	4:AD:79:PHE:O	1.99	0.45
4:AD:122:ARG:HD2	4:AD:122:ARG:HA	1.75	0.45
5:AE:33:VAL:HG22	5:AE:109:ILE:HG12	1.98	0.45
7:AG:15:ASP:CB	7:AG:20:ASP:H	2.29	0.45
7:AG:65:ALA:HB1	7:AG:127:ALA:HB3	1.98	0.45
8:AH:35:ILE:O	8:AH:39:LEU:HD23	2.17	0.45
8:AH:73:ASP:C	8:AH:75:ARG:H	2.23	0.45
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.31	0.45
9:AI:114:TYR:HD2	10:AJ:60:ARG:HG3	1.82	0.45
10:AJ:33:GLN:O	10:AJ:75:ILE:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:33:THR:OG1	19:AS:34:TRP:N	2.49	0.45
20:AT:10:LEU:HG	20:AT:12:ALA:HB2	1.97	0.45
20:AT:13:LEU:N	20:AT:13:LEU:HD12	2.31	0.45
20:AT:81:LYS:C	20:AT:83:ARG:N	2.73	0.45
22:AV:27:C:C6	22:AV:27:C:H3'	2.51	0.45
22:AV:78:A:C8	35:BA:2602:A:N6	2.84	0.45
23:AW:30:U:O2'	23:AW:31:C:H5'	2.17	0.45
23:AW:47:G:O2'	23:AW:48:G:C5'	2.63	0.45
23:AW:57:U:O2	23:AW:59:G:N7	2.49	0.45
22:AY:70:G:C6	22:AY:71:G:C6	3.04	0.45
26:B1:51:VAL:CG1	26:B1:58:ILE:HD11	2.39	0.45
27:B2:47:ASN:O	27:B2:49:LYS:N	2.49	0.45
35:BA:524:U:H4'	35:BA:555:U:H4'	1.98	0.45
35:BA:1014:U:O2'	35:BA:1015:G:H5"	2.16	0.45
35:BA:1916:A:H2'	35:BA:1917:U:O4'	2.17	0.45
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.51	0.45
37:BC:31:LYS:NZ	37:BC:183:PRO:HD3	2.29	0.45
37:BC:34:ALA:HB1	37:BC:40:GLU:HG3	1.98	0.45
38:BD:231:HIS:ND1	38:BD:232:PRO:HD2	2.31	0.45
40:BF:40:GLN:NE2	40:BF:184:TYR:HB3	2.32	0.45
40:BF:133:ASN:O	40:BF:135:LYS:N	2.48	0.45
41:BG:174:GLU:OE2	41:BG:182:LYS:HE3	2.17	0.45
43:BI:111:PRO:CB	43:BI:112:LYS:HD2	2.46	0.45
43:BI:119:PRO:O	43:BI:120:ILE:C	2.59	0.45
45:BN:132:ALA:O	45:BN:133:GLN:CB	2.63	0.45
48:BQ:110:THR:OG1	48:BQ:112:GLU:HB3	2.16	0.45
51:BT:99:LEU:CD1	51:BT:99:LEU:O	2.64	0.45
52:BU:111:GLU:C	52:BU:113:ALA:N	2.73	0.45
1:CA:473:G:C5	1:CA:474:G:N7	2.84	0.45
1:CA:474:G:C2'	1:CA:475:G:H8	2.26	0.45
1:CA:527:G:O2'	1:CA:528:C:H5'	2.15	0.45
2:CB:95:GLN:HE21	2:CB:147:LYS:CE	2.27	0.45
3:CC:117:ALA:C	3:CC:119:ARG:N	2.74	0.45
9:CI:24:GLY:N	9:CI:60:ASP:OD1	2.44	0.45
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.42	0.45
20:CT:90:GLN:O	20:CT:93:GLU:HB3	2.16	0.45
25:D0:27:GLU:HG3	25:D0:68:GLU:HA	1.97	0.45
25:D0:84:LEU:H	25:D0:84:LEU:CD1	2.26	0.45
27:D2:24:LEU:HG	27:D2:60:LEU:HD11	1.98	0.45
27:D2:47:ASN:C	27:D2:49:LYS:N	2.74	0.45
34:D9:1:MET:O	34:D9:34:GLN:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D9:7:VAL:C	34:D9:8:LYS:HG3	2.41	0.45
35:DA:573:G:O2'	35:DA:574:C:H3'	2.17	0.45
35:DA:902:C:H2'	35:DA:903:C:H6	1.82	0.45
35:DA:1021:A:H8	35:DA:1021:A:H3'	1.81	0.45
35:DA:1775:U:C2'	35:DA:1776:G:H5'	2.46	0.45
35:DA:1833:U:O2'	35:DA:1969:A:N1	2.45	0.45
35:DA:2036:C:H5'	35:DA:2036:C:C6	2.36	0.45
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.51	0.45
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.52	0.45
35:DA:2364:C:H2'	35:DA:2365:G:O4'	2.16	0.45
39:DE:17:ASP:HB3	39:DE:18:ASP:H	1.57	0.45
41:DG:26:GLN:O	41:DG:27:ASN:HB2	2.15	0.45
41:DG:92:VAL:O	41:DG:92:VAL:HG13	2.15	0.45
41:DG:131:TYR:N	41:DG:159:VAL:HG13	2.27	0.45
42:DH:41:MET:SD	42:DH:43:VAL:HG13	2.56	0.45
46:DO:22:ILE:HD11	46:DO:42:SER:CB	2.44	0.45
47:DP:50:ARG:HH11	47:DP:50:ARG:CG	2.29	0.45
48:DQ:28:ALA:O	48:DQ:29:PHE:HD1	1.97	0.45
50:DS:17:ARG:C	50:DS:19:LYS:N	2.73	0.45
52:DU:95:LEU:HD13	53:DV:11:GLN:HE21	1.80	0.45
53:DV:7:THR:O	53:DV:7:THR:HG23	2.17	0.45
56:DY:95:LYS:HD3	56:DY:100:ALA:HB1	1.96	0.45
1:AA:278:G:O4'	1:AA:282:A:H1'	2.15	0.45
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.80	0.45
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.98	0.45
2:AB:16:HIS:HD2	2:AB:210:SER:HA	1.81	0.45
2:AB:230:VAL:HG23	2:AB:231:GLU:N	2.31	0.45
4:AD:45:GLN:O	4:AD:45:GLN:HG3	2.17	0.45
8:AH:4:ASP:HB2	8:AH:89:PRO:CG	2.44	0.45
8:AH:56:LYS:O	8:AH:58:TYR:HD1	1.99	0.45
8:AH:83:ILE:HD13	8:AH:137:VAL:HG22	1.99	0.45
10:AJ:51:ARG:HG3	10:AJ:60:ARG:C	2.41	0.45
12:AL:90:VAL:CG2	12:AL:99:HIS:HE2	2.28	0.45
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.32	0.45
17:AQ:59:ILE:HG21	17:AQ:71:PHE:HB3	1.96	0.45
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.15	0.45
22:AV:3:G:N2	22:AV:72:C:N3	2.58	0.45
22:AV:24:A:H62	22:AV:48:G:N2	2.15	0.45
22:AY:68:A:C6	22:AY:69:G:C5	3.04	0.45
27:B2:46:GLN:CD	27:B2:46:GLN:N	2.74	0.45
29:B4:1:MET:H1	36:BB:43:C:H4'	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:7:ILE:HG12	31:B6:29:ASN:ND2	2.28	0.45
35:BA:631:A:OP1	47:BP:64:LYS:CE	2.64	0.45
35:BA:654(P):C:C2'	35:BA:654(Q):C:H5'	2.47	0.45
35:BA:1467:C:C2'	35:BA:1468:C:H5'	2.46	0.45
35:BA:1712:C:O2'	35:BA:1713:U:H5'	2.16	0.45
35:BA:2114:A:O2'	35:BA:2115:G:H5'	2.16	0.45
35:BA:2287:A:C6	35:BA:2289:G:C4	3.05	0.45
35:BA:2305:A:C4	41:BG:154:GLY:HA3	2.52	0.45
35:BA:2369:A:O2'	35:BA:2370:G:H5'	2.17	0.45
37:BC:173:HIS:CD2	37:BC:173:HIS:N	2.84	0.45
39:BE:104:VAL:HG11	39:BE:188:VAL:HG23	1.97	0.45
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.97	0.45
41:BG:96:ARG:HA	41:BG:99:MET:HE2	1.98	0.45
43:BI:74:ASN:O	43:BI:76:THR:N	2.38	0.45
45:BN:65:LYS:O	45:BN:69:GLN:HB2	2.16	0.45
50:BS:36:TYR:HA	50:BS:52:SER:HA	1.97	0.45
52:BU:88:ILE:HG23	53:BV:47:VAL:CG2	2.47	0.45
53:BV:34:GLU:O	53:BV:36:PRO:CD	2.64	0.45
55:BX:12:VAL:CG2	55:BX:27:THR:HG23	2.41	0.45
56:BY:23:ARG:O	56:BY:24:VAL:C	2.59	0.45
57:BZ:104:PHE:CD1	57:BZ:141:VAL:HG21	2.51	0.45
1:CA:963:G:H21	10:CJ:55:LYS:HZ3	1.63	0.45
1:CA:1327:C:H2'	1:CA:1328:C:H6	1.82	0.45
1:CA:1409:C:H42	1:CA:1491:G:H1	1.63	0.45
1:CA:1492:A:C1'	1:CA:1493:A:OP2	2.59	0.45
3:CC:11:ARG:O	3:CC:14:ILE:O	2.34	0.45
3:CC:11:ARG:NH2	3:CC:177:THR:O	2.49	0.45
4:CD:67:ILE:HG21	4:CD:196:LEU:HD23	1.97	0.45
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.98	0.45
9:CI:40:LEU:HD12	9:CI:70:LYS:HG3	1.97	0.45
15:CO:37:ASN:N	15:CO:37:ASN:HD22	2.14	0.45
16:CP:58:TYR:C	16:CP:58:TYR:CD1	2.94	0.45
23:CW:11:C:C2'	23:CW:12:U:C6	2.99	0.45
23:CW:20:G:C4	23:CW:59:G:N3	2.84	0.45
22:CY:57:U:H5	57:DZ:181:GLU:C	2.24	0.45
25:D0:11:ARG:C	25:D0:12:ASN:ND2	2.74	0.45
26:D1:41:ARG:HD3	26:D1:43:TYR:CZ	2.51	0.45
26:D1:45:ASN:CG	35:DA:2230:G:H1'	2.41	0.45
26:D1:53:VAL:HG22	26:D1:74:VAL:HG13	1.95	0.45
31:D6:48:VAL:CG2	31:D6:49:HIS:H	2.22	0.45
34:D9:30:PRO:HG2	35:DA:2528:U:OP1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:213:A:H2'	35:DA:214:G:O4'	2.16	0.45
35:DA:271(Q):G:O2'	35:DA:271(R):G:P	2.74	0.45
35:DA:773:U:H4'	38:DD:47:GLY:HA3	1.97	0.45
35:DA:941:A:H4'	47:DP:35:HIS:CE1	2.51	0.45
35:DA:990:A:OP2	35:DA:991:C:OP2	2.35	0.45
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.81	0.45
35:DA:1914:C:P	35:DA:1914:C:C3'	3.05	0.45
35:DA:2526:G:H5'	35:DA:2742:C:O2'	2.16	0.45
35:DA:2881:C:C2	35:DA:2882:A:C8	3.04	0.45
35:DA:2884:U:H2'	35:DA:2885:C:C5'	2.46	0.45
36:DB:52:A:O2'	36:DB:53:A:H8	1.99	0.45
38:DD:182:LEU:H	38:DD:272:ALA:CB	2.27	0.45
40:DF:148:LEU:HD21	40:DF:191:ARG:NH1	2.31	0.45
48:DQ:21:THR:HG21	48:DQ:101:ARG:CB	2.46	0.45
49:DR:58:GLY:HA2	49:DR:80:PHE:CE1	2.49	0.45
49:DR:88:ARG:HD2	49:DR:88:ARG:O	2.16	0.45
56:DY:31:LEU:CB	56:DY:32:PRO:CA	2.95	0.45
57:DZ:104:PHE:HB3	57:DZ:141:VAL:HG23	1.98	0.45
57:DZ:166:SER:HB2	57:DZ:167:PRO:C	2.40	0.45
1:AA:284:G:H2'	1:AA:285:G:H8	1.81	0.45
1:AA:624:C:H2'	1:AA:625:G:C8	2.49	0.45
1:AA:1033:G:H2'	1:AA:1034:G:C5'	2.43	0.45
1:AA:1095:U:OP1	1:AA:1108:G:N2	2.43	0.45
1:AA:1400:C:H4'	1:AA:1401:G:OP2	2.17	0.45
1:AA:1498:U:O2'	1:AA:1499:A:OP2	2.34	0.45
2:AB:116:GLU:HA	2:AB:119:GLU:HB2	1.98	0.45
3:AC:110:ASN:OD1	3:AC:140:ARG:HD2	2.17	0.45
4:AD:74:GLN:CA	4:AD:77:ASN:HD22	2.26	0.45
4:AD:117:ALA:O	4:AD:118:ARG:C	2.60	0.45
10:AJ:16:LEU:O	10:AJ:16:LEU:HD13	2.16	0.45
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB2	1.99	0.45
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.93	0.45
11:AK:62:GLN:C	11:AK:64:ALA:N	2.74	0.45
12:AL:60:LEU:C	12:AL:62:SER:N	2.74	0.45
12:AL:86:ARG:HB2	12:AL:101:VAL:HG23	1.98	0.45
13:AM:65:LYS:HD3	29:B4:44:THR:CB	2.47	0.45
15:AO:86:GLY:O	15:AO:87:ILE:HG23	2.16	0.45
16:AP:67:THR:CG2	16:AP:68:ASP:H	2.27	0.45
17:AQ:50:LYS:HG3	17:AQ:51:TYR:CD1	2.52	0.45
23:AW:11:C:H2'	23:AW:12:U:O4'	2.15	0.45
23:AW:15:G:H8	23:AW:16:U:C5	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:45:U:H3'	23:AW:46:U:C5	2.52	0.45
23:AW:73:C:H3'	23:AW:74:C:C5'	2.45	0.45
25:B0:50:ASN:HB2	25:B0:81:VAL:HB	1.98	0.45
32:B7:8:ASN:ND2	32:B7:10:ARG:N	2.64	0.45
35:BA:887:A:O2'	35:BA:888:C:H6	1.99	0.45
35:BA:1528:A:C2	35:BA:1542:A:H2	2.34	0.45
35:BA:2515:C:O2'	35:BA:2516:G:H5'	2.16	0.45
38:BD:64:ILE:O	38:BD:64:ILE:HG23	2.16	0.45
38:BD:72:LYS:HD3	38:BD:97:TYR:CZ	2.51	0.45
38:BD:101:GLU:HG2	38:BD:102:LYS:N	2.31	0.45
38:BD:206:LEU:HD22	38:BD:211:ARG:HG3	1.98	0.45
39:BE:116:VAL:HG21	39:BE:122:PHE:CE2	2.51	0.45
41:BG:171:ALA:O	41:BG:175:LEU:HG	2.15	0.45
42:BH:124:GLU:HG3	42:BH:132:ARG:CG	2.46	0.45
43:BI:84:GLY:HA2	43:BI:144:VAL:HG13	1.98	0.45
46:BO:10:VAL:O	46:BO:10:VAL:HG23	2.16	0.45
46:BO:81:ASP:OD1	46:BO:81:ASP:C	2.59	0.45
47:BP:39:LYS:O	47:BP:41:ARG:HG2	2.17	0.45
47:BP:41:ARG:NE	47:BP:41:ARG:HA	2.31	0.45
50:BS:17:ARG:HA	50:BS:20:ARG:HH12	1.81	0.45
50:BS:66:ALA:HA	50:BS:69:VAL:CG1	2.46	0.45
51:BT:6:LEU:O	51:BT:10:VAL:HG23	2.16	0.45
51:BT:127:ALA:C	51:BT:129:ARG:H	2.24	0.45
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.51	0.45
1:CA:260:G:H2'	1:CA:261:U:C6	2.51	0.45
1:CA:963:G:H21	10:CJ:55:LYS:CE	2.29	0.45
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.17	0.45
1:CA:1319:A:OP2	19:CS:5:LEU:HD23	2.16	0.45
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.51	0.45
2:CB:51:LEU:O	2:CB:55:PHE:CD2	2.68	0.45
3:CC:106:VAL:C	3:CC:108:ASN:H	2.22	0.45
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.26	0.45
9:CI:33:PHE:HE1	9:CI:37:PHE:HD2	1.63	0.45
11:CK:59:TYR:O	11:CK:63:LEU:HD23	2.16	0.45
12:CL:84:LEU:C	12:CL:84:LEU:CD2	2.90	0.45
12:CL:104:VAL:O	12:CL:107:ALA:HB3	2.17	0.45
14:CN:23:ARG:HA	14:CN:29:ARG:O	2.16	0.45
17:CQ:78:GLU:OE1	17:CQ:81:ARG:HD3	2.16	0.45
22:CV:3:G:C6	22:CV:4:C:C4	3.04	0.45
22:CV:52:C:O2	22:CV:66:G:N1	2.46	0.45
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:47:ASN:HD22	35:DA:94(A):G:N2	2.15	0.45
27:D2:64:LEU:O	27:D2:68:ARG:HG2	2.15	0.45
30:D5:43:HIS:HD2	35:DA:2815:C:O2'	1.99	0.45
35:DA:39:C:O2	40:DF:46:ARG:NH2	2.49	0.45
35:DA:280:C:O2'	35:DA:281:G:H5'	2.17	0.45
35:DA:364:C:H2'	35:DA:365:C:H5"	1.98	0.45
35:DA:491:G:O2'	35:DA:492:A:H5'	2.16	0.45
35:DA:840:C:H2'	35:DA:841:A:C8	2.51	0.45
35:DA:1375:C:O2'	35:DA:1376:C:H5'	2.17	0.45
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.51	0.45
35:DA:1641:A:H2'	35:DA:1642:G:O4'	2.16	0.45
35:DA:2148:G:H2'	35:DA:2149:G:C8	2.51	0.45
36:DB:83:G:C2'	36:DB:84:C:H5'	2.46	0.45
37:DC:50:ILE:O	37:DC:50:ILE:HD12	2.16	0.45
39:DE:196:VAL:O	39:DE:196:VAL:HG23	2.16	0.45
40:DF:164:ARG:HG2	40:DF:164:ARG:NH1	2.29	0.45
41:DG:16:ARG:O	41:DG:20:ILE:HG13	2.16	0.45
41:DG:107:LEU:HD22	41:DG:177:GLY:O	2.17	0.45
43:DI:126:TYR:O	43:DI:140:LEU:HB3	2.16	0.45
45:DN:48:MET:HE3	45:DN:48:MET:C	2.42	0.45
46:DO:32:TYR:CD1	46:DO:32:TYR:N	2.84	0.45
47:DP:91:PHE:CD1	47:DP:91:PHE:N	2.74	0.45
47:DP:101:VAL:HB	47:DP:107:LYS:CA	2.34	0.45
52:DU:88:ILE:O	52:DU:90:VAL:N	2.39	0.45
56:DY:8:LYS:N	56:DY:8:LYS:CD	2.80	0.45
56:DY:52:SER:O	56:DY:54:LYS:N	2.49	0.45
1:AA:236:G:C6	1:AA:237:C:C4	3.04	0.45
1:AA:1240:U:C4'	7:AG:38:LEU:HD21	2.46	0.45
7:AG:15:ASP:CG	7:AG:18:TYR:H	2.25	0.45
9:AI:15:ALA:HB2	9:AI:65:VAL:CG2	2.44	0.45
13:AM:33:ALA:HA	13:AM:59:TYR:CE2	2.52	0.45
13:AM:94:ARG:HB3	13:AM:96:LEU:HG	1.99	0.45
15:AO:51:HIS:O	15:AO:54:ARG:HB3	2.17	0.45
22:AV:57:U:C5	22:AV:59:G:OP2	2.70	0.45
23:AW:15:G:C6	23:AW:61:A:C4	3.04	0.45
23:AW:70:G:C2	23:AW:71:G:C4	3.05	0.45
22:AY:60:A:C5	57:BZ:186:GLU:OE1	2.70	0.45
22:AY:63:C:H2'	22:AY:64:C:C6	2.51	0.45
26:B1:53:VAL:HB	26:B1:58:ILE:HD13	1.99	0.45
27:B2:41:ILE:HG13	27:B2:43:GLN:HB2	1.99	0.45
28:B3:40:THR:CG2	28:B3:43:ILE:HG12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:1:MET:SD	35:BA:2478:A:OP2	2.74	0.45
34:B9:18:ARG:HD3	35:BA:1034:G:H5'	1.97	0.45
35:BA:29:U:H2'	35:BA:30:G:C8	2.52	0.45
35:BA:35:G:H2'	35:BA:36:G:O4'	2.17	0.45
35:BA:197:A:H2'	35:BA:198:C:H5'	1.98	0.45
35:BA:626:U:C5'	35:BA:627:A:H5'	2.46	0.45
35:BA:911:A:H2'	48:BQ:9:TYR:OH	2.17	0.45
35:BA:933:A:H2'	35:BA:934:G:O4'	2.17	0.45
35:BA:1368:G:O2'	35:BA:1369:G:H5'	2.17	0.45
35:BA:1486:A:N1	35:BA:1504:C:N3	2.65	0.45
35:BA:1532:C:O2'	35:BA:1533:G:H5'	2.17	0.45
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.51	0.45
35:BA:2682:U:O4	35:BA:2728:U:H1'	2.17	0.45
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.51	0.45
38:BD:166:GLN:HE21	38:BD:166:GLN:CA	2.28	0.45
39:BE:36:ARG:HG2	39:BE:36:ARG:NH1	2.31	0.45
39:BE:86:PRO:C	39:BE:88:GLY:H	2.24	0.45
39:BE:143:ASN:HB2	39:BE:147:PRO:HD2	1.98	0.45
40:BF:158:THR:C	40:BF:178:PRO:HD3	2.42	0.45
41:BG:85:GLY:C	41:BG:87:PRO:CD	2.89	0.45
41:BG:172:LEU:C	41:BG:172:LEU:CD2	2.89	0.45
44:BJ:49:UNK:O	44:BJ:50:UNK:C	2.64	0.45
44:BJ:85:UNK:O	44:BJ:86:UNK:O	2.34	0.45
46:BO:1:MET:HE2	46:BO:32:TYR:CE2	2.51	0.45
46:BO:79:PHE:CD2	51:BT:72:VAL:HG13	2.52	0.45
47:BP:85:LEU:HD23	47:BP:115:LEU:O	2.17	0.45
51:BT:48:ILE:HD12	51:BT:48:ILE:N	2.31	0.45
53:BV:38:LEU:C	53:BV:38:LEU:HD23	2.41	0.45
1:CA:237:C:O2'	1:CA:238:G:H5'	2.16	0.45
1:CA:266:G:C8	1:CA:266:G:H5'	2.52	0.45
1:CA:438:G:H4'	1:CA:439:A:OP1	2.17	0.45
1:CA:439:A:C5	1:CA:441:A:H1'	2.51	0.45
1:CA:824:C:H4'	8:CH:1:MET:N	2.32	0.45
1:CA:1014:A:H2	1:CA:1219:U:O2	1.98	0.45
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.81	0.45
1:CA:1479:C:C2	1:CA:1480:G:C8	3.05	0.45
2:CB:233:SER:CB	2:CB:234:PRO:CD	2.92	0.45
9:CI:33:PHE:CZ	9:CI:47:LEU:HD11	2.51	0.45
10:CJ:67:THR:HG22	10:CJ:67:THR:O	2.16	0.45
11:CK:74:ALA:O	11:CK:76:GLY:N	2.50	0.45
17:CQ:91:ARG:HA	17:CQ:94:ASN:HD22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:72:LEU:O	20:CT:73:HIS:CB	2.64	0.45
20:CT:81:LYS:C	20:CT:83:ARG:N	2.73	0.45
21:CU:5:ASP:O	21:CU:11:GLY:HA3	2.17	0.45
22:CY:67:C:C6	22:CY:67:C:C3'	2.99	0.45
34:D9:18:ARG:HD3	35:DA:1034:G:H5'	1.99	0.45
34:D9:33:LYS:HE3	35:DA:2526:G:O2'	2.17	0.45
35:DA:102:G:OP1	35:DA:102:G:C4'	2.64	0.45
35:DA:192:C:H2'	35:DA:193:U:H5'	1.98	0.45
35:DA:551:G:O2'	35:DA:1220:A:N3	2.40	0.45
35:DA:649:G:H2'	35:DA:650:C:C6	2.51	0.45
35:DA:1506:C:O2	35:DA:1506:C:C2'	2.64	0.45
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.52	0.45
35:DA:2163:C:H2'	35:DA:2164:C:O4'	2.16	0.45
35:DA:2473:U:O2	35:DA:2473:U:O4'	2.34	0.45
39:DE:141:ILE:O	39:DE:141:ILE:HG13	2.16	0.45
42:DH:50:VAL:HG12	42:DH:51:ARG:N	2.30	0.45
43:DI:84:GLY:HA2	43:DI:144:VAL:HG13	1.97	0.45
45:DN:96:GLU:HB2	45:DN:122:VAL:HG12	1.97	0.45
46:DO:71:ARG:NE	46:DO:105:GLU:OE2	2.50	0.45
49:DR:97:VAL:CG1	49:DR:114:VAL:HG22	2.47	0.45
50:DS:97:ARG:HG2	50:DS:97:ARG:HH11	1.81	0.45
51:DT:28:VAL:HG21	51:DT:46:GLU:HG3	1.98	0.45
53:DV:49:THR:CB	53:DV:50:PRO:CD	2.93	0.45
57:DZ:38:TYR:CD1	57:DZ:38:TYR:O	2.70	0.45
1:AA:80:G:H4'	1:AA:80:G:OP1	2.16	0.45
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.16	0.45
1:AA:429:U:H1'	1:AA:430:A:H5"	1.97	0.45
1:AA:439:A:C5	1:AA:441:A:H1'	2.52	0.45
1:AA:474:G:C2'	1:AA:475:G:C8	2.87	0.45
1:AA:801:U:H2'	1:AA:802:A:C8	2.51	0.45
1:AA:830:G:H2'	1:AA:831:U:O4'	2.17	0.45
1:AA:874:G:H2'	1:AA:875:C:H6	1.81	0.45
1:AA:948:C:H2'	1:AA:949:A:H8	1.81	0.45
1:AA:1197:G:O2'	1:AA:1198:G:H5'	2.17	0.45
3:AC:103:VAL:CG1	3:AC:104:GLN:H	2.29	0.45
4:AD:96:LEU:HD12	4:AD:96:LEU:N	2.32	0.45
5:AE:17:ALA:HA	5:AE:26:PHE:HA	1.99	0.45
7:AG:64:GLN:HG3	7:AG:68:ASN:HD21	1.80	0.45
9:AI:18:PHE:HB2	9:AI:62:TYR:O	2.16	0.45
9:AI:112:LYS:HA	9:AI:119:ALA:CB	2.45	0.45
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:91:ARG:HD2	11:AK:91:ARG:C	2.41	0.45
16:AP:14:ASN:OD1	16:AP:42:ARG:NH2	2.50	0.45
16:AP:51:VAL:O	16:AP:53:VAL:N	2.50	0.45
16:AP:64:ALA:O	16:AP:65:GLN:C	2.58	0.45
19:AS:15:LEU:O	19:AS:16:LEU:C	2.59	0.45
21:AU:24:ARG:HH11	21:AU:24:ARG:HG2	1.80	0.45
22:AV:14:A:C6	22:AV:24:A:N7	2.85	0.45
22:AV:20:G:C4	22:AV:59:G:N3	2.85	0.45
22:AV:68:A:N1	22:AV:69:G:C4	2.84	0.45
22:AV:73:C:C4	22:AV:74:C:C5	3.05	0.45
23:AW:47:G:O5'	23:AW:47:G:H8	1.99	0.45
23:AW:51:G:C2'	23:AW:52:C:H5'	2.47	0.45
26:B1:29:GLY:O	26:B1:30:VAL:CG2	2.65	0.45
28:B3:7:LYS:C	28:B3:54:VAL:HG13	2.42	0.45
29:B4:11:PRO:HA	29:B4:25:TYR:HA	1.98	0.45
31:B6:37:ARG:NH1	31:B6:39:TYR:HE2	2.14	0.45
33:B8:49:VAL:HG23	33:B8:53:PRO:HB3	1.98	0.45
35:BA:270:A:O2'	35:BA:271:A:H5'	2.16	0.45
35:BA:314:A:H2'	35:BA:315:G:C8	2.52	0.45
35:BA:426:C:O2'	35:BA:427:U:H5'	2.17	0.45
35:BA:828:U:H3'	35:BA:828:U:O2	2.16	0.45
35:BA:1339:G:H5"	55:BX:16:LYS:HD3	1.98	0.45
35:BA:1652:A:OP1	49:BR:9:LYS:HD3	2.16	0.45
35:BA:1654:A:P	49:BR:3:HIS:HB2	2.57	0.45
35:BA:1751:C:O4'	35:BA:2860:A:C2	2.69	0.45
35:BA:1945:G:H2'	35:BA:1946:U:H6	1.81	0.45
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.82	0.45
35:BA:2604:U:O2'	35:BA:2605:U:H5'	2.17	0.45
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.17	0.45
36:BB:3:C:H42	36:BB:118:G:H1	1.65	0.45
36:BB:28:C:H2'	36:BB:29:A:C8	2.52	0.45
38:BD:270:ILE:C	38:BD:271:ILE:HG12	2.41	0.45
40:BF:84:VAL:C	40:BF:86:GLY:N	2.71	0.45
40:BF:192:LEU:HD21	40:BF:194:MET:HG3	1.99	0.45
42:BH:50:VAL:CG1	42:BH:51:ARG:N	2.80	0.45
43:BI:5:LEU:HD23	43:BI:36:ALA:HB2	1.97	0.45
46:BO:47:ILE:HG13	46:BO:48:PRO:HD2	1.95	0.45
47:BP:10:PRO:O	47:BP:11:GLY:O	2.35	0.45
47:BP:75:ILE:HD12	47:BP:75:ILE:N	2.32	0.45
47:BP:82:GLY:HA2	47:BP:113:LYS:O	2.17	0.45
52:BU:61:TRP:CE2	52:BU:94:ASN:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:20:LEU:N	53:BV:20:LEU:HD12	2.32	0.45
53:BV:36:PRO:O	53:BV:37:VAL:C	2.60	0.45
57:BZ:57:ILE:HD12	57:BZ:57:ILE:N	2.30	0.45
1:CA:39:G:O2'	1:CA:40:C:H5'	2.16	0.45
1:CA:560:U:H5'	1:CA:566:G:N2	2.32	0.45
1:CA:874:G:H2'	1:CA:875:C:H6	1.81	0.45
1:CA:1095:U:OP1	1:CA:1108:G:N2	2.43	0.45
1:CA:1175:G:H2'	1:CA:1176:A:C8	2.52	0.45
1:CA:1199:U:H4'	10:CJ:54:PHE:CZ	2.52	0.45
1:CA:1405:G:C4	1:CA:1406:U:C5	3.04	0.45
2:CB:70:PHE:CD2	2:CB:163:PHE:HB3	2.51	0.45
2:CB:169:LYS:HB3	2:CB:170:GLU:OE2	2.16	0.45
2:CB:207:ALA:C	2:CB:209:ARG:H	2.24	0.45
4:CD:168:ARG:HG3	4:CD:168:ARG:NH1	2.32	0.45
6:CF:9:VAL:HA	6:CF:59:TYR:O	2.16	0.45
7:CG:80:VAL:HG12	7:CG:80:VAL:O	2.15	0.45
9:CI:118:LYS:HZ3	9:CI:118:LYS:HB3	1.82	0.45
10:CJ:49:VAL:HG22	10:CJ:50:ILE:N	2.32	0.45
12:CL:25:PRO:C	12:CL:27:LEU:N	2.70	0.45
12:CL:84:LEU:HD23	12:CL:85:ILE:O	2.16	0.45
12:CL:89:ARG:HD3	12:CL:90:VAL:H	1.80	0.45
19:CS:36:ARG:HH11	19:CS:53:ASN:HA	1.78	0.45
23:CW:7:U:N3	23:CW:69:G:C6	2.84	0.45
23:CW:20:G:N2	23:CW:58:C:H2'	2.31	0.45
23:CW:24:A:H2'	23:CW:25:A:O4'	2.17	0.45
25:D0:6:GLY:C	25:D0:7:LEU:HD23	2.42	0.45
27:D2:10:LEU:O	27:D2:11:GLU:C	2.59	0.45
27:D2:69:ARG:HG3	27:D2:69:ARG:HH11	1.80	0.45
31:D6:5:VAL:HG11	35:DA:2284:C:OP1	2.17	0.45
31:D6:28:ARG:HB3	31:D6:28:ARG:NH1	2.31	0.45
35:DA:272(D):G:H1	35:DA:364:C:N4	2.14	0.45
35:DA:755:C:H2'	35:DA:756:C:C6	2.52	0.45
35:DA:829:A:N7	35:DA:2248:C:H5'	2.31	0.45
35:DA:871:U:OP1	48:DQ:5:ARG:HG3	2.16	0.45
35:DA:1019:U:H2'	35:DA:1020:A:C8	2.52	0.45
35:DA:1140:C:H1'	35:DA:1143:A:N3	2.31	0.45
35:DA:1547:C:H2'	35:DA:1548:C:C6	2.51	0.45
35:DA:1598:C:H5'	55:DX:36:LYS:HG3	1.99	0.45
35:DA:2580:U:C5'	39:DE:131:ALA:HB2	2.40	0.45
36:DB:42:C:O2'	41:DG:67:LYS:NZ	2.50	0.45
38:DD:68:LYS:O	38:DD:68:LYS:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:93:ALA:HB3	38:DD:105:ILE:HG23	1.98	0.45
38:DD:94:LEU:HD22	38:DD:95:LEU:N	2.32	0.45
38:DD:110:GLY:O	38:DD:111:LEU:C	2.60	0.45
39:DE:34:VAL:O	39:DE:34:VAL:HG22	2.16	0.45
40:DF:67:GLN:O	40:DF:67:GLN:CG	2.62	0.45
41:DG:144:ILE:HD12	41:DG:145:THR:H	1.82	0.45
43:DI:111:PRO:HB2	43:DI:112:LYS:HD2	1.98	0.45
45:DN:16:ILE:HG12	45:DN:17:ASP:N	2.32	0.45
45:DN:132:ALA:O	45:DN:133:GLN:CB	2.64	0.45
46:DO:24:VAL:O	46:DO:24:VAL:HG13	2.17	0.45
46:DO:113:LYS:O	46:DO:117:LEU:HB2	2.17	0.45
47:DP:83:VAL:CG1	47:DP:112:LEU:HD21	2.46	0.45
49:DR:65:LEU:HD12	49:DR:65:LEU:N	2.32	0.45
51:DT:7:ILE:O	51:DT:10:VAL:HB	2.16	0.45
55:DX:55:ASN:HB2	55:DX:80:ILE:HG12	1.98	0.45
57:DZ:7:ALA:O	57:DZ:62:PRO:HD3	2.16	0.45
57:DZ:101:PRO:C	57:DZ:102:LEU:HD23	2.41	0.45
1:AA:401:C:P	4:AD:73:ARG:HH21	2.40	0.45
1:AA:445:G:H2'	1:AA:446:G:H8	1.79	0.45
1:AA:827:U:H2'	1:AA:870:U:O4	2.16	0.45
1:AA:1030(B):C:H2'	1:AA:1030(C):G:O4'	2.17	0.45
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.51	0.45
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.17	0.45
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.16	0.45
1:AA:1276:G:C2'	1:AA:1277:C:H5'	2.46	0.45
2:AB:137:ARG:NH1	2:AB:138:LEU:HD23	2.32	0.45
3:AC:99:VAL:O	3:AC:99:VAL:HG23	2.16	0.45
4:AD:152:SER:C	4:AD:155:LEU:HG	2.40	0.45
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.97	0.45
7:AG:78:ARG:HG2	7:AG:79:ARG:H	1.82	0.45
8:AH:117:GLY:O	8:AH:119:LEU:HG	2.17	0.45
9:AI:33:PHE:CZ	9:AI:47:LEU:HD11	2.51	0.45
17:AQ:60:ILE:O	17:AQ:61:GLU:C	2.60	0.45
20:AT:72:LEU:O	20:AT:73:HIS:CB	2.65	0.45
22:AV:76:C:C2'	22:AV:77:C:H5"	2.47	0.45
23:AW:72:C:C2'	23:AW:73:C:O4'	2.62	0.45
27:B2:6:VAL:HA	27:B2:9:GLN:HB2	1.99	0.45
29:B4:28:LYS:HE3	29:B4:28:LYS:CA	2.43	0.45
35:BA:1021:A:H3'	35:BA:1021:A:C8	2.51	0.45
35:BA:2134:A:H1'	35:BA:2159:G:H21	1.80	0.45
35:BA:2877:G:O2'	35:BA:2878:U:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:52:PRO:CG	37:BC:53:ARG:HH11	2.29	0.45
38:BD:137:PRO:O	38:BD:138:VAL:C	2.59	0.45
38:BD:209:ALA:O	38:BD:212:SER:HB3	2.16	0.45
39:BE:24:THR:HG23	39:BE:184:VAL:CG2	2.46	0.45
40:BF:15:SER:O	40:BF:16:GLY:O	2.35	0.45
41:BG:6:ALA:O	41:BG:9:ARG:N	2.50	0.45
41:BG:137:GLU:HG2	41:BG:152:LEU:CD1	2.46	0.45
42:BH:94:TYR:HD1	42:BH:94:TYR:N	2.15	0.45
42:BH:159:GLU:O	42:BH:160:LYS:O	2.35	0.45
45:BN:4:TYR:HB2	52:BU:64:ARG:NH1	2.31	0.45
48:BQ:12:GLN:HE21	48:BQ:73:PRO:HD3	1.82	0.45
51:BT:132:LYS:C	51:BT:134:GLU:N	2.75	0.45
55:BX:18:TYR:O	55:BX:20:GLY:N	2.49	0.45
1:CA:146:G:N2	1:CA:147:G:H1'	2.32	0.45
1:CA:153:C:H2'	1:CA:154:C:H6	1.80	0.45
1:CA:625:G:H2'	1:CA:626:U:H6	1.82	0.45
1:CA:975:A:H4'	1:CA:1358:U:O2	2.17	0.45
1:CA:999:C:O2'	1:CA:1000:U:H5'	2.17	0.45
1:CA:1072:G:N2	2:CB:107:THR:HG21	2.32	0.45
1:CA:1103:C:C5'	2:CB:98:LEU:HD13	2.46	0.45
1:CA:1244:C:H2'	1:CA:1245:A:H8	1.81	0.45
2:CB:131:PRO:O	2:CB:135:GLN:HG3	2.17	0.45
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.97	0.45
3:CC:110:ASN:OD1	3:CC:140:ARG:HD2	2.17	0.45
8:CH:35:ILE:O	8:CH:39:LEU:HD23	2.15	0.45
11:CK:58:PRO:HA	11:CK:90:GLY:CA	2.45	0.45
11:CK:91:ARG:HD2	11:CK:91:ARG:C	2.42	0.45
13:CM:18:ALA:CB	13:CM:45:VAL:HG21	2.47	0.45
15:CO:17:ARG:CD	15:CO:26:GLU:OE1	2.65	0.45
17:CQ:66:SER:O	17:CQ:67:LYS:C	2.59	0.45
18:CR:44:LEU:O	18:CR:45:SER:C	2.60	0.45
21:CU:24:ARG:HH11	21:CU:24:ARG:HG2	1.82	0.45
22:CV:3:G:H8	22:CV:3:G:OP2	2.00	0.45
23:CW:4:C:C2	23:CW:5:C:C5	3.05	0.45
22:CY:69:G:C5	22:CY:70:G:C8	3.04	0.45
29:D4:8:LYS:O	29:D4:9:LEU:CB	2.64	0.45
34:D9:30:PRO:HB2	35:DA:2527:C:H4'	1.98	0.45
35:DA:118:A:H1'	35:DA:178:G:O4'	2.17	0.45
35:DA:933:A:H2'	35:DA:934:G:O4'	2.17	0.45
35:DA:1162:G:H1'	53:DV:23:GLU:OE1	2.16	0.45
35:DA:1286:A:H2'	35:DA:1288:U:OP2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1542:A:C8	35:DA:1544:A:H5"	2.52	0.45
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.52	0.45
35:DA:2299:G:N1	35:DA:2318:G:C8	2.85	0.45
35:DA:2672:G:H2'	35:DA:2673:G:H5"	1.99	0.45
39:DE:86:PRO:C	39:DE:88:GLY:H	2.25	0.45
40:DF:20:LEU:O	40:DF:24:LEU:HD23	2.16	0.45
42:DH:116:GLU:CD	42:DH:116:GLU:C	2.84	0.45
46:DO:1:MET:HE2	46:DO:32:TYR:CE2	2.51	0.45
49:DR:32:GLY:O	49:DR:115:GLU:HA	2.17	0.45
49:DR:97:VAL:HG12	49:DR:114:VAL:HG22	1.99	0.45
50:DS:36:TYR:N	50:DS:36:TYR:HD1	2.14	0.45
50:DS:85:VAL:HG23	50:DS:106:ARG:HG3	1.98	0.45
50:DS:98:VAL:HG12	50:DS:100:ALA:N	2.32	0.45
53:DV:2:PHE:HB3	53:DV:3:ALA:H	1.48	0.45
53:DV:20:LEU:N	53:DV:20:LEU:HD12	2.32	0.45
56:DY:89:PHE:O	56:DY:90:LEU:HB3	2.16	0.45
57:DZ:109:ALA:CB	57:DZ:145:GLU:HB2	2.43	0.45
1:AA:431:A:O2'	1:AA:432:A:H5'	2.16	0.45
1:AA:560:U:O2'	1:AA:561:U:OP2	2.23	0.45
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.70	0.45
2:AB:58:ILE:CG2	2:AB:222:ILE:HD11	2.47	0.45
2:AB:183:PRO:HA	2:AB:198:ASP:OD2	2.17	0.45
5:AE:105:VAL:CB	5:AE:106:PRO:CD	2.93	0.45
9:AI:99:LEU:C	9:AI:101:PHE:N	2.75	0.45
10:AJ:8:LEU:HD13	10:AJ:20:ALA:CB	2.47	0.45
13:AM:45:VAL:O	13:AM:48:LEU:HD22	2.16	0.45
13:AM:97:PRO:HG3	13:AM:103:THR:HG22	1.99	0.45
16:AP:20:VAL:HG23	16:AP:35:LYS:HA	1.99	0.45
23:AW:20:G:H3'	23:AW:21:U:C5'	2.38	0.45
22:AY:9:A:C8	22:AY:47:G:C2	3.05	0.45
22:AY:44:A:C2	22:AY:45:U:C2	3.04	0.45
26:B1:20:ARG:NH1	26:B1:20:ARG:CG	2.75	0.45
29:B4:50:VAL:O	29:B4:52:THR:N	2.47	0.45
31:B6:12:GLU:HG2	31:B6:23:THR:CG2	2.37	0.45
32:B7:1:MET:N	35:BA:1619:G:O2'	2.48	0.45
35:BA:545:C:H2'	35:BA:547:A:C5'	2.47	0.45
35:BA:593:G:C6	35:BA:594:U:C4	3.04	0.45
35:BA:1018:C:O2'	35:BA:1019:U:H5'	2.17	0.45
35:BA:1453:U:O4'	49:BR:63:ARG:HD3	2.17	0.45
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.17	0.45
35:BA:2500:U:O2	35:BA:2504:U:C5	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:31:C:C2'	36:BB:53:A:H61	2.27	0.45
38:BD:135:PHE:HZ	4:CD:166:LYS:HG2	1.81	0.45
39:BE:24:THR:HG22	39:BE:186:GLY:CA	2.44	0.45
42:BH:41:MET:SD	42:BH:53:GLU:N	2.79	0.45
43:BI:81:VAL:HG22	43:BI:143:SER:O	2.17	0.45
43:BI:109:ILE:CG2	43:BI:110:ASP:H	2.14	0.45
45:BN:1:MET:N	53:BV:20:LEU:HD21	2.31	0.45
45:BN:15:LEU:HD12	45:BN:136:GLU:HG3	1.98	0.45
45:BN:57:ALA:C	45:BN:58:ASP:O	2.59	0.45
47:BP:61:ARG:H	47:BP:61:ARG:CD	2.08	0.45
54:BW:36:LEU:HD12	54:BW:48:ALA:HA	1.99	0.45
1:CA:102:G:O2'	1:CA:103:C:H5'	2.17	0.45
1:CA:115:G:H1'	1:CA:116:A:N7	2.32	0.45
1:CA:509:A:H5"	4:CD:55:ALA:HB2	1.97	0.45
1:CA:542:G:C5'	4:CD:41:GLY:HA3	2.43	0.45
1:CA:751:U:H2'	1:CA:752:G:H5'	1.99	0.45
1:CA:1266:G:N2	1:CA:1268:A:H3'	2.31	0.45
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.52	0.45
1:CA:1442:G:O6	1:CA:1442(B):A:H2	1.99	0.45
2:CB:198:ASP:OD1	2:CB:198:ASP:N	2.50	0.45
3:CC:155:GLY:O	3:CC:156:ARG:CB	2.65	0.45
4:CD:39:PRO:HB2	4:CD:44:GLY:HA2	1.97	0.45
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.64	0.45
7:CG:12:LEU:HD21	7:CG:28:ASN:HD21	1.82	0.45
7:CG:15:ASP:CB	7:CG:20:ASP:H	2.28	0.45
7:CG:20:ASP:CB	7:CG:23:VAL:HG23	2.42	0.45
7:CG:66:VAL:O	7:CG:66:VAL:HG12	2.17	0.45
9:CI:9:ARG:HG2	9:CI:14:VAL:CG2	2.34	0.45
9:CI:103:THR:HG22	9:CI:104:ARG:N	2.32	0.45
10:CJ:28:ARG:HH11	10:CJ:28:ARG:HG2	1.81	0.45
10:CJ:30:SER:C	10:CJ:80:LYS:HZ3	2.25	0.45
10:CJ:75:ILE:CG1	10:CJ:76:ASN:N	2.79	0.45
11:CK:62:GLN:C	11:CK:64:ALA:N	2.74	0.45
19:CS:15:LEU:O	19:CS:16:LEU:C	2.60	0.45
22:CV:43:G:C4	22:CV:44:A:C8	3.05	0.45
23:CW:73:C:C4	23:CW:74:C:H5	2.33	0.45
22:CY:44:A:C2	22:CY:45:U:C2	3.05	0.45
22:CY:62:U:C2'	57:DZ:186:GLU:CB	2.82	0.45
25:D0:14:ARG:CG	25:D0:14:ARG:NH1	2.79	0.45
28:D3:42:ALA:C	28:D3:44:ARG:N	2.73	0.45
29:D4:6:HIS:CG	41:DG:67:LYS:HE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:43:CYS:O	31:D6:44:ARG:NH1	2.49	0.45
32:D7:33:ARG:HD2	35:DA:467:G:OP1	2.17	0.45
35:DA:35:G:H2'	35:DA:36:G:O4'	2.17	0.45
35:DA:128:C:O2'	35:DA:129:C:O5'	2.29	0.45
35:DA:195:A:OP1	47:DP:46:LYS:HE2	2.17	0.45
35:DA:822:U:H2'	35:DA:823:G:H8	1.82	0.45
35:DA:1751:C:O4'	35:DA:2860:A:C2	2.69	0.45
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.52	0.45
35:DA:2884:U:H2'	35:DA:2885:C:O4'	2.16	0.45
38:DD:72:LYS:HD3	38:DD:97:TYR:CZ	2.52	0.45
38:DD:142:VAL:HG22	38:DD:143:HIS:N	2.31	0.45
38:DD:206:LEU:HD22	38:DD:211:ARG:HG3	1.99	0.45
39:DE:51:PHE:CE1	39:DE:52:LEU:HD13	2.52	0.45
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.80	0.45
40:DF:110:LEU:HD13	40:DF:206:ILE:HD11	1.99	0.45
40:DF:150:GLY:HA2	40:DF:172:TRP:CD2	2.52	0.45
41:DG:173:LEU:HD22	41:DG:178:PHE:CZ	2.52	0.45
42:DH:82:GLY:O	42:DH:83:TYR:O	2.34	0.45
42:DH:105:LEU:HD23	42:DH:105:LEU:N	2.27	0.45
46:DO:69:ILE:HD12	46:DO:69:ILE:H	1.81	0.45
47:DP:102:ARG:NH1	47:DP:102:ARG:HB3	2.32	0.45
48:DQ:14:ARG:O	48:DQ:72:LYS:HE2	2.17	0.45
51:DT:28:VAL:HG12	51:DT:29:ARG:HD3	1.99	0.45
51:DT:32:TYR:CG	51:DT:81:PRO:HB3	2.51	0.45
51:DT:99:LEU:CD1	51:DT:99:LEU:O	2.65	0.45
53:DV:34:GLU:O	53:DV:36:PRO:CD	2.64	0.45
56:DY:23:ARG:O	56:DY:24:VAL:C	2.59	0.45
1:AA:72:C:H2'	1:AA:73:G:C8	2.51	0.45
1:AA:283:C:C2	1:AA:284:G:C8	3.05	0.45
1:AA:297:G:N2	1:AA:300:A:OP2	2.47	0.45
1:AA:660:G:H2'	1:AA:661:G:C8	2.52	0.45
1:AA:823:G:H21	8:AH:1:MET:HE1	1.82	0.45
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.81	0.45
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.32	0.45
1:AA:1327:C:H2'	1:AA:1328:C:H6	1.82	0.45
2:AB:81:VAL:O	2:AB:82:ARG:C	2.59	0.45
4:AD:88:VAL:HG13	5:AE:97:GLY:HA2	1.99	0.45
4:AD:132:ARG:C	4:AD:132:ARG:CD	2.88	0.45
5:AE:20:GLN:O	5:AE:21:ALA:O	2.34	0.45
5:AE:144:THR:C	5:AE:146:ALA:N	2.74	0.45
8:AH:86:ILE:CB	8:AH:133:LEU:HD22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:5:TYR:CD2	9:AI:18:PHE:HE1	2.35	0.45
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD13	1.98	0.45
11:AK:29:ILE:HG13	11:AK:44:SER:HB3	1.99	0.45
11:AK:59:TYR:O	11:AK:63:LEU:HD23	2.17	0.45
12:AL:27:LEU:HD11	12:AL:64:TYR:CD2	2.52	0.45
13:AM:15:VAL:O	13:AM:16:ASP:C	2.59	0.45
13:AM:89:GLY:CA	13:AM:93:ARG:HH11	2.30	0.45
17:AQ:91:ARG:HA	17:AQ:94:ASN:HD22	1.81	0.45
23:AW:3:G:C5	23:AW:4:C:C5	3.04	0.45
26:B1:52:ARG:NH2	35:BA:2218:U:O2	2.50	0.45
26:B1:84:GLY:O	26:B1:85:LEU:C	2.60	0.45
31:B6:35:GLU:O	31:B6:36:LEU:HB2	2.16	0.45
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.52	0.45
35:BA:2188:C:H2'	35:BA:2189:U:C1'	2.47	0.45
35:BA:2743:C:H2'	35:BA:2744:G:O4'	2.17	0.45
35:BA:2820:A:O4'	49:BR:5:LYS:HD2	2.16	0.45
35:BA:2849:U:H1'	35:BA:2866:U:H6	1.82	0.45
37:BC:34:ALA:HB2	37:BC:217:THR:HG21	1.99	0.45
38:BD:58:HIS:CD2	38:BD:59:LYS:H	2.35	0.45
38:BD:142:VAL:HG22	38:BD:143:HIS:N	2.32	0.45
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.60	0.45
43:BI:111:PRO:O	43:BI:116:LEU:HD22	2.16	0.45
45:BN:1:MET:N	53:BV:20:LEU:CD2	2.80	0.45
46:BO:77:ILE:HD13	51:BT:74:ARG:CG	2.46	0.45
49:BR:2:ARG:HD2	49:BR:2:ARG:C	2.42	0.45
49:BR:27:SER:HB3	49:BR:34:ILE:HD11	1.99	0.45
50:BS:98:VAL:HG12	50:BS:100:ALA:H	1.82	0.45
51:BT:87:ASP:OD1	51:BT:87:ASP:C	2.59	0.45
51:BT:127:ALA:C	51:BT:129:ARG:N	2.72	0.45
55:BX:57:LEU:HD22	55:BX:57:LEU:C	2.42	0.45
56:BY:4:LYS:HD2	56:BY:32:PRO:HG3	1.99	0.45
57:BZ:165:VAL:HG12	57:BZ:166:SER:N	2.32	0.45
1:CA:677:U:O2'	1:CA:678:U:H5'	2.16	0.45
1:CA:830:G:H2'	1:CA:831:U:O4'	2.17	0.45
1:CA:862:C:H2'	1:CA:863:U:C6	2.52	0.45
1:CA:1346:A:C5'	9:CI:120:ARG:HH12	2.28	0.45
2:CB:16:HIS:HD2	2:CB:210:SER:HA	1.81	0.45
2:CB:231:GLU:HB2	2:CB:232:PRO:CD	2.47	0.45
5:CE:71:LEU:HD22	5:CE:114:GLY:O	2.16	0.45
5:CE:80:ILE:HA	8:CH:104:ARG:HH12	1.81	0.45
7:CG:50:ILE:O	7:CG:54:THR:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:61:VAL:O	8:CH:63:LEU:HD22	2.17	0.45
11:CK:29:ILE:HG13	11:CK:44:SER:HB3	1.99	0.45
17:CQ:63:ARG:O	17:CQ:64:PRO:C	2.59	0.45
20:CT:39:LYS:O	20:CT:42:GLN:HB3	2.17	0.45
20:CT:96:GLY:O	20:CT:97:ALA:O	2.34	0.45
22:CV:54:G:C2'	22:CV:55:G:H5'	2.47	0.45
22:CV:68:A:C6	22:CV:69:G:C8	3.04	0.45
22:CV:76:C:O2'	22:CV:77:C:H5"	2.17	0.45
29:D4:5:ILE:N	29:D4:5:ILE:CD1	2.78	0.45
33:D8:39:LYS:CG	33:D8:43:GLN:HE21	2.28	0.45
33:D8:61:LEU:HD12	33:D8:62:LEU:N	2.30	0.45
35:DA:887:A:HO2'	35:DA:888:C:H6	1.65	0.45
35:DA:1009:A:C5'	52:DU:59:ARG:HD3	2.47	0.45
35:DA:1509(A):A:H2'	35:DA:1509(B):A:H8	1.80	0.45
35:DA:1654:A:P	49:DR:3:HIS:HB2	2.57	0.45
35:DA:1916:A:C5'	35:DA:1916:A:H8	2.28	0.45
35:DA:2033:A:O2'	35:DA:2034:U:P	2.75	0.45
36:DB:5:C:O2'	36:DB:6:C:H5'	2.17	0.45
36:DB:87:G:H2'	36:DB:88:C:H5"	1.99	0.45
38:DD:2:ALA:O	38:DD:3:VAL:CB	2.65	0.45
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.42	0.45
41:DG:106:LEU:HD12	41:DG:110:ALA:CB	2.47	0.45
42:DH:43:VAL:CG1	42:DH:52:VAL:HG22	2.27	0.45
42:DH:124:GLU:O	42:DH:131:VAL:HG13	2.17	0.45
43:DI:81:VAL:H	43:DI:143:SER:HB2	1.81	0.45
45:DN:1:MET:N	53:DV:20:LEU:CD2	2.80	0.45
48:DQ:45:GLN:CD	48:DQ:45:GLN:N	2.75	0.45
49:DR:3:HIS:O	49:DR:4:LEU:HB3	2.17	0.45
49:DR:38:VAL:O	49:DR:42:LYS:HG3	2.17	0.45
49:DR:103:ARG:HD3	49:DR:108:GLY:O	2.17	0.45
55:DX:35:THR:O	55:DX:39:ILE:CG1	2.56	0.45
56:DY:49:VAL:HG12	56:DY:50:ARG:N	2.32	0.45
1:AA:90:U:P	1:AA:91:C:H5'	2.57	0.45
1:AA:823:G:H21	8:AH:1:MET:CE	2.30	0.45
1:AA:1067:A:N3	1:AA:1068:G:H1'	2.31	0.45
3:AC:69:HIS:N	3:AC:69:HIS:HD2	2.15	0.45
3:AC:117:ALA:C	3:AC:119:ARG:N	2.74	0.45
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.75	0.45
7:AG:50:ILE:O	7:AG:54:THR:O	2.35	0.45
10:AJ:46:ARG:HH11	10:AJ:46:ARG:HG2	1.82	0.45
11:AK:21:ILE:HB	11:AK:84:VAL:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.32	0.45
22:AV:10:G:H2'	22:AV:11:C:C6	2.51	0.45
22:AV:43:G:O2'	22:AV:44:A:H5'	2.17	0.45
22:AV:78:A:H8	35:BA:2602:A:C6	2.34	0.45
23:AW:23:A:H61	23:AW:48:G:H2'	1.81	0.45
22:AY:56:U:H5"	22:AY:57:U:OP2	2.17	0.45
26:B1:95:LEU:HD12	26:B1:95:LEU:HA	1.84	0.45
31:B6:43:CYS:O	31:B6:44:ARG:NH1	2.50	0.45
33:B8:8:LYS:N	33:B8:8:LYS:HD2	2.32	0.45
33:B8:55:ALA:O	33:B8:58:ILE:HB	2.18	0.45
35:BA:523:C:H2'	35:BA:524:U:C5'	2.47	0.45
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.47	0.45
35:BA:2543:G:O2'	35:BA:2544:G:H5'	2.17	0.45
35:BA:2729:G:H2'	35:BA:2730:C:C6	2.53	0.45
35:BA:2769:C:H2'	35:BA:2770:G:O4'	2.17	0.45
36:BB:29:A:H2'	36:BB:30:C:C6	2.52	0.45
36:BB:38:C:O4'	50:BS:95:HIS:NE2	2.50	0.45
38:BD:182:LEU:H	38:BD:272:ALA:CB	2.29	0.45
39:BE:38:THR:C	39:BE:40:GLU:N	2.73	0.45
40:BF:187:VAL:C	40:BF:189:THR:H	2.25	0.45
43:BI:127:VAL:HG22	43:BI:139:GLN:CB	2.47	0.45
46:BO:69:ILE:HD12	46:BO:69:ILE:H	1.81	0.45
47:BP:92:GLU:HG3	47:BP:93:GLY:N	2.25	0.45
47:BP:146:VAL:CG2	47:BP:147:LEU:H	2.00	0.45
49:BR:55:ALA:CB	49:BR:79:LEU:HD22	2.47	0.45
53:BV:2:PHE:HB3	53:BV:3:ALA:H	1.50	0.45
57:BZ:44:PHE:CD1	57:BZ:44:PHE:C	2.94	0.45
1:CA:72:C:H2'	1:CA:73:G:C8	2.52	0.45
1:CA:131:C:H2'	1:CA:132:C:C6	2.51	0.45
1:CA:600:C:O2'	1:CA:601:C:H5'	2.17	0.45
1:CA:773:G:O2'	1:CA:774:G:H5'	2.16	0.45
1:CA:939:G:H2'	1:CA:940:C:H6	1.81	0.45
2:CB:47:THR:OG1	2:CB:202:PRO:HG2	2.17	0.45
7:CG:5:ARG:C	7:CG:7:ALA:N	2.73	0.45
8:CH:56:LYS:O	8:CH:58:TYR:HD1	2.00	0.45
9:CI:18:PHE:HB3	9:CI:20:ARG:HH12	1.82	0.45
9:CI:26:VAL:HA	9:CI:61:ALA:O	2.16	0.45
10:CJ:6:ILE:CD1	10:CJ:72:VAL:HB	2.42	0.45
11:CK:34:ASP:CB	11:CK:35:PRO:CD	2.93	0.45
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.17	0.45
20:CT:89:ARG:HD2	20:CT:104:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:100:ILE:CG2	20:CT:100:ILE:O	2.65	0.45
22:CV:59:G:H2'	22:CV:60:A:H5'	1.98	0.45
23:CW:16:U:O3'	23:CW:62:U:O3'	2.34	0.45
23:CW:33:G:H2'	23:CW:34:C:H4'	1.97	0.45
23:CW:69:G:N1	23:CW:70:G:C4	2.85	0.45
22:CY:17:C:OP2	57:DZ:186:GLU:HB3	2.16	0.45
22:CY:58:C:H2'	22:CY:59:G:C8	2.51	0.45
27:D2:44:LEU:O	27:D2:45:SER:CB	2.64	0.45
30:D5:50:GLY:HA3	30:D5:55:ARG:HB2	1.99	0.45
31:D6:37:ARG:NH1	31:D6:39:TYR:HE2	2.15	0.45
34:D9:15:LYS:HB3	35:DA:1033:U:O4	2.17	0.45
35:DA:184:C:H2'	35:DA:185:U:C6	2.52	0.45
35:DA:1002:G:H2'	35:DA:1003:G:O4'	2.16	0.45
35:DA:1030:G:OP2	48:DQ:128:LYS:NZ	2.50	0.45
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.52	0.45
35:DA:1771:C:C1'	35:DA:1786:A:C8	3.00	0.45
35:DA:2491:U:H4'	35:DA:2570:G:OP1	2.17	0.45
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.16	0.45
38:DD:132:PRO:HG3	38:DD:190:TYR:CE1	2.52	0.45
41:DG:42:GLY:O	41:DG:43:LEU:HB2	2.16	0.45
45:DN:15:LEU:HD12	45:DN:136:GLU:HG3	1.99	0.45
47:DP:65:ARG:HG3	47:DP:65:ARG:NH1	2.31	0.45
48:DQ:42:ILE:HA	48:DQ:46:GLN:OE1	2.16	0.45
48:DQ:111:GLU:O	48:DQ:111:GLU:HG2	2.16	0.45
48:DQ:135:ASP:OD1	48:DQ:135:ASP:N	2.46	0.45
49:DR:2:ARG:O	49:DR:2:ARG:CD	2.60	0.45
49:DR:30:THR:HG22	49:DR:30:THR:O	2.17	0.45
50:DS:31:SER:C	50:DS:33:LYS:H	2.26	0.45
51:DT:91:ARG:HG2	51:DT:116:ALA:HB2	1.99	0.45
52:DU:108:GLU:O	52:DU:111:GLU:N	2.48	0.45
1:AA:479:C:H2'	1:AA:479:C:O2	2.16	0.44
1:AA:596:C:H6	1:AA:596:C:O5'	2.00	0.44
1:AA:773:G:O2'	1:AA:774:G:H5'	2.17	0.44
1:AA:828:A:N3	2:AB:26:PRO:HG3	2.32	0.44
1:AA:959:A:H3'	1:AA:960:U:C5'	2.47	0.44
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.18	0.44
1:AA:1196:U:O4	24:AX:23:A:C8	2.71	0.44
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.16	0.44
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.17	0.44
2:AB:47:THR:OG1	2:AB:202:PRO:HG2	2.16	0.44
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:124:GLY:C	4:AD:126:ILE:H	2.25	0.44
5:AE:28:PHE:N	5:AE:28:PHE:CD1	2.85	0.44
5:AE:92:LYS:O	5:AE:118:ILE:HD12	2.18	0.44
7:AG:32:ARG:HG2	7:AG:32:ARG:NH1	2.30	0.44
9:AI:18:PHE:HB3	9:AI:20:ARG:HH12	1.82	0.44
14:AN:12:ARG:NH1	14:AN:12:ARG:CB	2.79	0.44
18:AR:44:LEU:O	18:AR:45:SER:C	2.60	0.44
22:AV:5:C:C6	22:AV:6:C:C5	3.05	0.44
23:AW:3:G:H2'	23:AW:3:G:N3	2.32	0.44
23:AW:25:A:C6	23:AW:26:G:O6	2.71	0.44
25:B0:84:LEU:H	25:B0:84:LEU:CD1	2.25	0.44
27:B2:28:LYS:HD3	27:B2:31:GLU:OE2	2.16	0.44
32:B7:47:ARG:HH11	55:BX:60:ARG:HH21	1.65	0.44
34:B9:1:MET:HE3	35:BA:2477:C:H3'	1.99	0.44
35:BA:236:C:H2'	35:BA:237:C:C6	2.52	0.44
35:BA:280:C:O2'	35:BA:281:G:H5'	2.17	0.44
35:BA:840:C:H2'	35:BA:841:A:C8	2.52	0.44
35:BA:903:C:H2'	35:BA:904:C:C6	2.51	0.44
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.81	0.44
35:BA:2052:G:H4'	39:BE:143:ASN:O	2.16	0.44
35:BA:2263:C:O2'	35:BA:2264:C:H5'	2.17	0.44
35:BA:2297:C:O2'	35:BA:2298:A:H5'	2.18	0.44
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.33	0.44
39:BE:62:PRO:C	39:BE:64:LYS:N	2.65	0.44
39:BE:116:VAL:CG2	39:BE:122:PHE:CD2	3.00	0.44
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	2.17	0.44
41:BG:83:ARG:C	41:BG:85:GLY:N	2.75	0.44
45:BN:3:THR:O	45:BN:3:THR:HG22	2.17	0.44
45:BN:15:LEU:CB	45:BN:134:ARG:HB2	2.36	0.44
45:BN:62:VAL:HG11	45:BN:67:LEU:CD2	2.46	0.44
47:BP:50:ARG:HG3	47:BP:51:PHE:N	2.32	0.44
53:BV:47:VAL:C	53:BV:49:THR:N	2.73	0.44
53:BV:91:TYR:N	53:BV:91:TYR:CD1	2.85	0.44
54:BW:4:LYS:HD3	54:BW:6:ILE:HD11	1.99	0.44
56:BY:76:CYS:CB	56:BY:96:ILE:HD11	2.39	0.44
57:BZ:10:ARG:HG2	57:BZ:11:GLU:N	2.32	0.44
57:BZ:141:VAL:HG13	57:BZ:144:LEU:HD21	1.99	0.44
1:CA:43:C:H42	1:CA:399:G:H1	1.65	0.44
1:CA:90:U:P	1:CA:91:C:H5'	2.57	0.44
1:CA:189(D):C:H1'	1:CA:189(H):G:C2	2.52	0.44
1:CA:921:U:H2'	1:CA:922:G:O4'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:962:C:H2'	1:CA:963:G:H8	1.82	0.44
2:CB:81:VAL:O	2:CB:82:ARG:C	2.59	0.44
2:CB:183:PRO:HA	2:CB:198:ASP:OD2	2.18	0.44
4:CD:98:GLU:OE2	4:CD:107:ARG:HD2	2.17	0.44
7:CG:40:ALA:O	7:CG:44:TYR:CD2	2.69	0.44
8:CH:19:VAL:HG23	8:CH:21:LYS:HB2	1.99	0.44
10:CJ:34:VAL:HG21	10:CJ:74:ILE:HG22	1.99	0.44
19:CS:13:ASP:C	19:CS:15:LEU:N	2.75	0.44
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.32	0.44
22:CV:5:C:C6	22:CV:6:C:C5	3.03	0.44
22:CV:69:G:C5	22:CV:70:G:N7	2.85	0.44
23:CW:3:G:H2'	23:CW:4:C:O5'	2.18	0.44
23:CW:15:G:OP2	23:CW:16:U:H5	2.00	0.44
22:CY:29:A:C4	22:CY:30:U:C5	3.05	0.44
22:CY:67:C:H6	22:CY:67:C:H5"	1.81	0.44
26:D1:52:ARG:HD3	26:D1:52:ARG:HA	1.68	0.44
27:D2:69:ARG:C	27:D2:70:GLN:HG2	2.42	0.44
28:D3:2:PRO:O	28:D3:3:ARG:O	2.36	0.44
29:D4:28:LYS:HE3	29:D4:28:LYS:CA	2.43	0.44
33:D8:23:VAL:HG12	33:D8:46:ARG:HH11	1.82	0.44
35:DA:319:C:H2'	35:DA:320:A:O4'	2.17	0.44
35:DA:654(P):C:C2'	35:DA:654(Q):C:H5'	2.47	0.44
35:DA:803:U:O2'	35:DA:804:A:H5'	2.17	0.44
35:DA:828:U:H3'	35:DA:828:U:O2	2.18	0.44
35:DA:2236:C:C2'	35:DA:2237:G:H5'	2.47	0.44
35:DA:2473:U:C5	35:DA:2474:C:H1'	2.52	0.44
35:DA:2865:U:C4	35:DA:2866:U:C4	3.05	0.44
36:DB:3:C:H42	36:DB:118:G:H1	1.64	0.44
36:DB:28:C:H2'	36:DB:29:A:H8	1.81	0.44
38:DD:186:HIS:CD2	38:DD:188:GLU:HB2	2.49	0.44
38:DD:270:ILE:C	38:DD:271:ILE:HG12	2.41	0.44
40:DF:70:THR:HG22	40:DF:72:ARG:HG2	1.99	0.44
41:DG:25:TYR:HD1	41:DG:30:GLU:OE2	1.99	0.44
45:DN:133:GLN:O	45:DN:134:ARG:CB	2.64	0.44
46:DO:77:ILE:HD13	51:DT:74:ARG:CG	2.47	0.44
47:DP:80:TYR:CE1	47:DP:111:ARG:HD3	2.52	0.44
49:DR:13:HIS:O	49:DR:13:HIS:ND1	2.50	0.44
53:DV:62:LEU:HD22	53:DV:62:LEU:N	2.32	0.44
56:DY:40:GLU:OE1	56:DY:40:GLU:HA	2.17	0.44
57:DZ:109:ALA:HB3	57:DZ:145:GLU:CB	2.38	0.44
1:AA:523:A:H61	12:AL:92:ASP:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:823:G:N2	8:AH:1:MET:HE1	2.32	0.44
1:AA:992:U:O2'	1:AA:993:G:P	2.75	0.44
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.52	0.44
1:AA:1308:U:OP1	13:AM:98:VAL:N	2.50	0.44
2:AB:21:ARG:O	2:AB:22:LYS:C	2.61	0.44
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.98	0.44
2:AB:131:PRO:O	2:AB:135:GLN:HG3	2.17	0.44
4:AD:11:LEU:O	4:AD:12:CYS:C	2.60	0.44
5:AE:105:VAL:HB	5:AE:106:PRO:HD3	1.97	0.44
5:AE:107:ARG:O	5:AE:108:ALA:C	2.60	0.44
9:AI:5:TYR:HD2	9:AI:18:PHE:HE1	1.64	0.44
11:AK:11:LYS:O	11:AK:13:GLN:HG3	2.17	0.44
12:AL:102:ARG:HE	12:AL:102:ARG:HB3	1.44	0.44
15:AO:37:ASN:N	15:AO:37:ASN:HD22	2.14	0.44
22:AV:1:G:H2'	22:AV:2:G:H8	1.81	0.44
22:AV:11:C:C2	22:AV:26:G:N2	2.85	0.44
22:AV:57:U:C6	22:AV:59:G:OP2	2.70	0.44
22:AV:74:C:H2'	22:AV:75:A:O4'	2.17	0.44
23:AW:20:G:C2	23:AW:58:C:C2	3.05	0.44
23:AW:40:A:N6	23:AW:42:C:C2	2.85	0.44
22:AY:57:U:O4'	57:BZ:183:LEU:CA	2.66	0.44
27:B2:43:GLN:O	27:B2:44:LEU:O	2.35	0.44
31:B6:5:VAL:HG11	31:B6:7:ILE:HG22	1.98	0.44
34:B9:7:VAL:C	34:B9:8:LYS:HG3	2.41	0.44
35:BA:80:G:C2'	35:BA:81:G:H5'	2.48	0.44
35:BA:587:C:C6	47:BP:33:ARG:HD3	2.52	0.44
35:BA:1501:C:H1'	38:BD:100:GLY:HA2	2.00	0.44
35:BA:1544:A:O2'	35:BA:1545:A:H5'	2.18	0.44
35:BA:1773:A:H2'	35:BA:1774:C:H5'	1.98	0.44
35:BA:1899:G:N2	35:BA:1902:C:C4	2.85	0.44
35:BA:2807:G:H2'	35:BA:2808:U:C5'	2.43	0.44
35:BA:2823:A:OP1	39:BE:113:PHE:HB2	2.18	0.44
38:BD:16:MET:HB2	38:BD:207:GLY:HA3	1.99	0.44
39:BE:1:MET:HE2	39:BE:1:MET:H1	1.81	0.44
41:BG:141:PHE:HB3	41:BG:142:PRO:HD2	2.00	0.44
47:BP:32:THR:O	47:BP:33:ARG:HB3	2.18	0.44
48:BQ:21:THR:HG21	48:BQ:101:ARG:CB	2.48	0.44
49:BR:25:ALA:O	49:BR:29:LEU:HB2	2.17	0.44
49:BR:72:ASP:OD2	49:BR:74:LYS:HB3	2.17	0.44
49:BR:100:LEU:HD22	49:BR:112:ALA:HA	1.99	0.44
51:BT:48:ILE:O	51:BT:63:VAL:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:27:ALA:O	53:BV:28:GLU:C	2.60	0.44
1:CA:738:C:H2'	1:CA:739:C:H6	1.81	0.44
1:CA:818:G:H3'	1:CA:819:A:H5"	1.99	0.44
1:CA:1052:U:O2'	1:CA:1055:A:OP2	2.33	0.44
1:CA:1055:A:OP1	1:CA:1055:A:C8	2.70	0.44
1:CA:1155:G:O2'	1:CA:1156:G:H5'	2.16	0.44
1:CA:1212:U:H4'	1:CA:1213:A:C8	2.52	0.44
1:CA:1234:C:O2'	1:CA:1235:U:H5'	2.17	0.44
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.52	0.44
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.17	0.44
3:CC:113:ALA:O	3:CC:115:LEU:N	2.50	0.44
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.81	0.44
7:CG:128:ALA:C	7:CG:130:GLY:H	2.25	0.44
8:CH:23:SER:OG	8:CH:24:THR:N	2.49	0.44
9:CI:48:GLU:OE1	9:CI:51:ARG:HD2	2.17	0.44
10:CJ:8:LEU:HD13	10:CJ:20:ALA:CB	2.45	0.44
10:CJ:16:LEU:O	10:CJ:16:LEU:HD13	2.16	0.44
10:CJ:30:SER:CA	10:CJ:80:LYS:HE2	2.39	0.44
12:CL:89:ARG:NH1	12:CL:97:ARG:HG2	2.28	0.44
15:CO:86:GLY:O	15:CO:87:ILE:HG23	2.17	0.44
18:CR:25:THR:O	18:CR:26:LEU:HG	2.17	0.44
22:CV:15:G:C8	22:CV:15:G:OP2	2.70	0.44
22:CV:39:A:C6	24:CX:16:A:N6	2.86	0.44
23:CW:3:G:H2'	23:CW:3:G:N3	2.31	0.44
23:CW:29:A:H8	23:CW:29:A:P	2.40	0.44
23:CW:33:G:C2'	23:CW:34:C:H4'	2.47	0.44
22:CY:25:A:C2	22:CY:26:G:C4	3.05	0.44
22:CY:53:U:N3	22:CY:54:G:N7	2.65	0.44
22:CY:57:U:OP1	48:DQ:51:ARG:NH2	2.50	0.44
28:D3:7:LYS:CG	28:D3:34:GLU:HG2	2.47	0.44
31:D6:24:GLU:HB3	31:D6:25:LYS:H	1.59	0.44
33:D8:8:LYS:HD2	33:D8:8:LYS:N	2.31	0.44
33:D8:32:LEU:HB3	33:D8:36:LYS:HZ2	1.82	0.44
35:DA:402:A:H2'	35:DA:403:U:H5'	2.00	0.44
35:DA:484:C:OP1	56:DY:49:VAL:HG13	2.17	0.44
35:DA:523:C:H2'	35:DA:524:U:C5'	2.46	0.44
35:DA:593:G:C6	35:DA:594:U:C4	3.05	0.44
35:DA:1027:A:C2	35:DA:2488:A:H5'	2.51	0.44
35:DA:1794:U:H1'	35:DA:1900:A:N3	2.32	0.44
35:DA:1831:G:H2'	35:DA:1832:C:H6	1.81	0.44
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2197:U:O2'	35:DA:2198:A:H2'	2.17	0.44
35:DA:2223:G:H2'	35:DA:2224:G:C5'	2.47	0.44
35:DA:2262:U:O2'	35:DA:2263:C:H5'	2.17	0.44
35:DA:2319:G:C5	35:DA:2320:A:N6	2.85	0.44
35:DA:2755:C:O2'	35:DA:2756:U:H2'	2.18	0.44
36:DB:8:U:H5'	36:DB:8:U:H6	1.82	0.44
38:DD:35:LYS:HZ2	38:DD:36:PRO:N	2.15	0.44
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.80	0.44
38:DD:215:LEU:HD12	38:DD:217:ARG:HH21	1.82	0.44
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.17	0.44
40:DF:179:GLU:OE1	40:DF:179:GLU:N	2.50	0.44
41:DG:46:ALA:CB	41:DG:82:LEU:HD11	2.37	0.44
43:DI:31:LEU:H	43:DI:31:LEU:HD12	1.82	0.44
43:DI:77:LEU:HD21	43:DI:79:ILE:CG1	2.48	0.44
49:DR:27:SER:HB3	49:DR:34:ILE:HD11	1.98	0.44
49:DR:63:ARG:NH1	49:DR:80:PHE:CG	2.85	0.44
51:DT:10:VAL:O	51:DT:13:ARG:HG2	2.17	0.44
51:DT:58:ASN:N	51:DT:58:ASN:ND2	2.62	0.44
52:DU:57:PHE:C	52:DU:59:ARG:N	2.73	0.44
52:DU:65:ILE:HD11	52:DU:93:LYS:HA	1.98	0.44
55:DX:12:VAL:HG13	55:DX:27:THR:O	2.17	0.44
1:AA:83:U:H2'	1:AA:84:U:C5	2.53	0.44
1:AA:105:G:H2'	1:AA:106:C:H6	1.79	0.44
1:AA:154:C:O2'	1:AA:155:C:H5'	2.17	0.44
1:AA:217:C:O2'	1:AA:470:C:N4	2.50	0.44
1:AA:532:A:N6	3:AC:156:ARG:HH12	2.15	0.44
1:AA:542:G:C5'	4:AD:41:GLY:HA3	2.42	0.44
1:AA:1005:A:C2'	1:AA:1006:C:H5'	2.47	0.44
1:AA:1072:G:N2	2:AB:107:THR:HG21	2.32	0.44
5:AE:40:ARG:HG2	5:AE:40:ARG:NH1	2.32	0.44
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.17	0.44
6:AF:3:ARG:HG3	6:AF:3:ARG:NH1	2.31	0.44
19:AS:43:GLU:O	19:AS:43:GLU:CG	2.57	0.44
19:AS:62:ILE:HD12	19:AS:66:MET:CE	2.33	0.44
20:AT:10:LEU:O	20:AT:13:LEU:HD13	2.17	0.44
22:AV:25:A:N1	22:AV:26:G:C6	2.85	0.44
22:AV:43:G:C4	22:AV:44:A:C8	3.05	0.44
23:AW:44:A:H3'	23:AW:45:U:H5"	1.99	0.44
22:AY:19:G:OP1	22:AY:19:G:C8	2.60	0.44
30:B5:40:LYS:HZ3	30:B5:46:CYS:CB	2.30	0.44
35:BA:15:G:O2'	35:BA:16:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:649:G:H2'	35:BA:650:C:C6	2.53	0.44
35:BA:812:C:H5'	47:BP:25:SER:HB2	2.00	0.44
35:BA:990:A:OP2	35:BA:991:C:OP2	2.35	0.44
35:BA:1006:C:O2	45:BN:106:MET:HG2	2.17	0.44
35:BA:1657:C:H2'	35:BA:1658:C:H6	1.80	0.44
35:BA:1667:G:H22	35:BA:1992:G:H5'	1.83	0.44
35:BA:1719:G:C6	35:BA:1720:U:C4	3.06	0.44
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.52	0.44
35:BA:2491:U:H4'	35:BA:2570:G:OP1	2.17	0.44
38:BD:108:PRO:CG	38:BD:111:LEU:HD23	2.46	0.44
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.51	0.44
39:BE:176:ILE:HG22	39:BE:178:GLU:HB3	1.98	0.44
40:BF:34:TRP:HB2	47:BP:10:PRO:O	2.17	0.44
41:BG:54:GLU:O	41:BG:58:GLN:HG3	2.18	0.44
42:BH:116:GLU:CD	42:BH:116:GLU:C	2.85	0.44
43:BI:98:ALA:CB	43:BI:109:ILE:HB	2.46	0.44
48:BQ:121:ALA:O	48:BQ:123:HIS:N	2.50	0.44
50:BS:89:ARG:CB	50:BS:92:TYR:HB3	2.45	0.44
50:BS:95:HIS:O	50:BS:96:GLY:C	2.61	0.44
55:BX:21:PHE:O	55:BX:22:ALA:C	2.60	0.44
56:BY:88:LYS:NZ	56:BY:93:GLY:HA3	2.33	0.44
1:CA:532:A:H61	3:CC:193:TYR:HB3	1.80	0.44
1:CA:823:G:N2	8:CH:1:MET:HE1	2.33	0.44
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.18	0.44
1:CA:1196:U:C2	24:CX:23:A:N1	2.85	0.44
2:CB:206:ASP:O	2:CB:211:ILE:HD11	2.17	0.44
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.18	0.44
4:CD:163:GLU:HA	4:CD:163:GLU:OE1	2.17	0.44
7:CG:105:VAL:HG12	7:CG:109:ASN:HD21	1.83	0.44
7:CG:115:ARG:C	7:CG:118:VAL:HG22	2.42	0.44
9:CI:5:TYR:CD2	9:CI:18:PHE:HE1	2.34	0.44
9:CI:15:ALA:HB2	9:CI:65:VAL:CB	2.47	0.44
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD13	1.99	0.44
11:CK:93:GLN:CD	11:CK:93:GLN:C	2.86	0.44
13:CM:112:GLY:CA	13:CM:113:PRO:HG2	2.46	0.44
17:CQ:65:ILE:HD11	17:CQ:72:ARG:HG2	1.98	0.44
17:CQ:92:ARG:O	17:CQ:95:TYR:CD2	2.70	0.44
19:CS:6:LYS:N	19:CS:6:LYS:HE3	2.31	0.44
22:CV:28:G:C6	22:CV:29:A:C5	3.06	0.44
22:CV:36:AG9:H2G	22:CV:36:AG9:NH2	2.33	0.44
23:CW:4:C:H42	23:CW:72:C:N4	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:3:LYS:HE3	35:DA:2015:A:H2	1.81	0.44
33:D8:39:LYS:HG2	33:D8:43:GLN:NE2	2.28	0.44
35:DA:198:C:H5'	35:DA:2244:U:OP1	2.18	0.44
35:DA:314:A:H2'	35:DA:315:G:C8	2.52	0.44
35:DA:587:C:C2'	47:DP:33:ARG:NH2	2.80	0.44
35:DA:626:U:C5'	35:DA:627:A:H5'	2.48	0.44
35:DA:1188:U:H4'	53:DV:79:VAL:HG22	1.98	0.44
35:DA:1281:G:H8	35:DA:1281:G:C5'	2.25	0.44
35:DA:1528:A:C2	35:DA:1542:A:H2	2.33	0.44
35:DA:2186:G:H2'	35:DA:2187:G:C8	2.52	0.44
35:DA:2650:U:O2'	35:DA:2651:C:H5'	2.17	0.44
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.18	0.44
35:DA:2854:G:H2'	35:DA:2855:C:C6	2.52	0.44
38:DD:101:GLU:HG2	38:DD:102:LYS:N	2.33	0.44
39:DE:51:PHE:N	39:DE:74:PRO:CB	2.81	0.44
39:DE:52:LEU:HB2	39:DE:76:ARG:HB2	1.99	0.44
40:DF:175:THR:O	40:DF:176:LEU:HB2	2.17	0.44
41:DG:42:GLY:HA2	41:DG:89:GLY:CA	2.30	0.44
43:DI:8:PRO:HB3	43:DI:14:ASP:N	2.32	0.44
43:DI:83:ALA:HA	43:DI:88:ILE:HG23	1.99	0.44
45:DN:23:LEU:HD23	45:DN:23:LEU:O	2.17	0.44
46:DO:98:VAL:CG1	46:DO:117:LEU:HB3	2.47	0.44
46:DO:104:ARG:HE	51:DT:33:LYS:HE2	1.80	0.44
47:DP:46:LYS:HB3	47:DP:52:GLU:HG2	1.99	0.44
47:DP:50:ARG:HG3	47:DP:51:PHE:N	2.32	0.44
47:DP:125:VAL:CG1	47:DP:138:LEU:HD21	2.47	0.44
49:DR:57:ARG:O	49:DR:59:ASP:N	2.43	0.44
55:DX:27:THR:HA	55:DX:80:ILE:HA	1.99	0.44
57:DZ:128:VAL:HG21	57:DZ:132:ASN:CB	2.48	0.44
1:AA:197:A:N6	1:AA:221:C:C5'	2.79	0.44
1:AA:836:G:C6	1:AA:851:G:C6	3.05	0.44
1:AA:862:C:H2'	1:AA:863:U:C6	2.52	0.44
1:AA:962:C:H2'	1:AA:963:G:H8	1.83	0.44
1:AA:977:A:H2'	1:AA:978:A:H5'	1.98	0.44
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.17	0.44
1:AA:1308:U:H5'	13:AM:110:ARG:HD2	1.99	0.44
3:AC:113:ALA:HB3	3:AC:114:PRO:CD	2.41	0.44
3:AC:206:GLU:HG2	3:AC:207:VAL:N	2.22	0.44
6:AF:98:LEU:HD12	6:AF:98:LEU:N	2.33	0.44
10:AJ:67:THR:HG22	10:AJ:67:THR:O	2.18	0.44
11:AK:44:SER:H	11:AK:47:VAL:CG2	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.96	0.44
18:AR:44:LEU:CD2	18:AR:79:LEU:HD22	2.47	0.44
22:AV:57:U:C4	22:AV:59:G:OP2	2.71	0.44
27:B2:36:ARG:HH11	27:B2:36:ARG:HG3	1.82	0.44
31:B6:25:LYS:NZ	33:B8:34:TRP:HZ2	2.16	0.44
34:B9:30:PRO:HG2	35:BA:2528:U:OP1	2.18	0.44
35:BA:174:C:O2	35:BA:174:C:H2'	2.17	0.44
35:BA:218:A:C2	35:BA:235:U:H4'	2.52	0.44
35:BA:560:C:H4'	52:BU:52:ARG:CZ	2.47	0.44
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.52	0.44
35:BA:1668:A:N3	35:BA:1670:C:C4	2.85	0.44
35:BA:2133:G:H2'	35:BA:2157:G:N2	2.33	0.44
35:BA:2473:U:O4'	35:BA:2473:U:O2	2.34	0.44
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.32	0.44
38:BD:135:PHE:CZ	4:CD:166:LYS:HG2	2.52	0.44
38:BD:206:LEU:HD23	38:BD:206:LEU:HA	1.78	0.44
39:BE:76:ARG:O	39:BE:77:ILE:C	2.59	0.44
40:BF:65:TRP:CZ3	40:BF:75:HIS:HD2	2.35	0.44
42:BH:105:LEU:HD23	42:BH:105:LEU:N	2.27	0.44
43:BI:85:GLU:HB3	43:BI:86:THR:H	1.63	0.44
45:BN:91:LEU:HA	45:BN:95:PRO:HB3	1.99	0.44
45:BN:119:ARG:HG3	45:BN:119:ARG:HH11	1.82	0.44
48:BQ:21:THR:CG2	48:BQ:101:ARG:HB2	2.46	0.44
52:BU:90:VAL:CG2	53:BV:47:VAL:HG21	2.48	0.44
53:BV:22:VAL:O	53:BV:23:GLU:HB2	2.17	0.44
57:BZ:150:LEU:CD2	57:BZ:150:LEU:H	2.30	0.44
1:CA:22:G:H2'	1:CA:23:C:H6	1.81	0.44
1:CA:54:C:H2'	1:CA:352:C:N4	2.32	0.44
1:CA:473:G:H5"	16:CP:81:ARG:HE	1.82	0.44
1:CA:918:A:O2'	1:CA:919:A:H5'	2.18	0.44
1:CA:933:G:O6	7:CG:3:ARG:NH2	2.50	0.44
1:CA:992:U:O2'	1:CA:993:G:P	2.76	0.44
1:CA:1107:C:C2'	1:CA:1108:G:H5"	2.48	0.44
1:CA:1314:C:C5	19:CS:6:LYS:HE2	2.37	0.44
1:CA:1442:G:H2'	1:CA:1442(A):G:H5"	1.99	0.44
2:CB:121:LEU:C	2:CB:123:ALA:H	2.25	0.44
2:CB:180:LEU:O	2:CB:181:PHE:HB2	2.17	0.44
3:CC:82:GLU:CD	3:CC:82:GLU:H	2.24	0.44
3:CC:84:ILE:HD11	3:CC:88:ARG:NH2	2.32	0.44
3:CC:206:GLU:O	3:CC:208:ILE:N	2.51	0.44
4:CD:152:SER:CA	4:CD:155:LEU:HG	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.42	0.44
5:CE:62:ALA:C	5:CE:64:ARG:N	2.75	0.44
9:CI:114:TYR:HD2	10:CJ:60:ARG:HG3	1.82	0.44
15:CO:25:THR:HG21	15:CO:70:LEU:HB2	1.99	0.44
31:D6:7:ILE:CG1	31:D6:29:ASN:ND2	2.81	0.44
34:D9:1:MET:HE2	34:D9:10:ILE:HD13	1.99	0.44
35:DA:259:G:N2	35:DA:621:A:H8	2.13	0.44
35:DA:610:G:H2'	35:DA:611:C:C6	2.53	0.44
35:DA:985:C:H2'	35:DA:986:C:H6	1.83	0.44
35:DA:1045:A:H3'	35:DA:1045:A:N3	2.33	0.44
35:DA:1208:C:O2	35:DA:1208:C:H2'	2.17	0.44
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.17	0.44
35:DA:1495:A:C2	35:DA:1496:A:C2	3.05	0.44
35:DA:1509(B):A:O2'	35:DA:1510:G:H5'	2.18	0.44
35:DA:1532:C:O2'	35:DA:1533:G:H5'	2.17	0.44
35:DA:1789:A:H2'	35:DA:1790:C:O4'	2.17	0.44
35:DA:1996:C:C5	46:DO:32:TYR:OH	2.69	0.44
35:DA:2147:G:H2'	35:DA:2148:G:C4'	2.47	0.44
35:DA:2175:C:H1'	37:DC:218:THR:O	2.17	0.44
35:DA:2228:G:OP1	38:DD:261:LYS:HE3	2.17	0.44
35:DA:2305:A:C2	41:DG:154:GLY:HA3	2.53	0.44
35:DA:2796:U:H3'	35:DA:2799:C:H5'	1.99	0.44
35:DA:2849:U:H1'	35:DA:2866:U:H6	1.81	0.44
37:DC:214:TYR:CZ	37:DC:224:ARG:HD2	2.53	0.44
38:DD:20:ASP:OD1	38:DD:20:ASP:C	2.58	0.44
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.18	0.44
40:DF:172:TRP:H	40:DF:172:TRP:CD1	2.35	0.44
40:DF:187:VAL:C	40:DF:189:THR:H	2.26	0.44
41:DG:58:GLN:HG3	41:DG:59:GLU:H	1.82	0.44
41:DG:95:ARG:O	41:DG:96:ARG:C	2.60	0.44
42:DH:24:VAL:HG11	42:DH:72:ILE:CD1	2.47	0.44
42:DH:94:TYR:HD1	42:DH:94:TYR:N	2.14	0.44
43:DI:93:THR:CG2	43:DI:119:PRO:HB3	2.44	0.44
1:AA:140:A:N6	1:AA:141:A:N6	2.65	0.44
1:AA:261:U:OP2	20:AT:79:ARG:NH2	2.50	0.44
1:AA:473:G:C5	1:AA:474:G:N7	2.86	0.44
1:AA:606:G:H2'	1:AA:631:G:C2	2.52	0.44
1:AA:1121:U:H2'	1:AA:1122:U:C6	2.52	0.44
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.52	0.44
1:AA:1308:U:OP2	13:AM:99:ARG:HD2	2.18	0.44
2:AB:77:ALA:HB1	2:AB:211:ILE:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.52	0.44
12:AL:45:PRO:HG3	12:AL:53:ARG:NE	2.32	0.44
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.50	0.44
22:AY:19:G:C5	22:AY:60:A:C6	3.05	0.44
22:AY:29:A:C4	22:AY:30:U:C6	3.05	0.44
26:B1:68:PRO:C	26:B1:70:VAL:H	2.25	0.44
28:B3:8:LEU:CD1	28:B3:31:LEU:HA	2.47	0.44
35:BA:213:A:H2'	35:BA:214:G:O4'	2.16	0.44
35:BA:271(Q):G:O2'	35:BA:271(R):G:P	2.75	0.44
35:BA:433:C:H2'	35:BA:434:U:C6	2.53	0.44
35:BA:528:A:C2	35:BA:2043:C:C5'	3.00	0.44
35:BA:768:G:O2'	35:BA:769:G:H5'	2.17	0.44
35:BA:1598:C:H5'	55:BX:36:LYS:HG3	1.99	0.44
35:BA:1701:A:H5'	35:BA:1702:G:OP2	2.18	0.44
35:BA:2646:C:H6	35:BA:2646:C:O5'	2.01	0.44
35:BA:2649:U:C2	35:BA:2672:G:N2	2.86	0.44
37:BC:51:ASP:HB3	37:BC:54:ARG:HG3	1.99	0.44
38:BD:30:GLU:CD	38:BD:63:ARG:NE	2.74	0.44
39:BE:11:MET:HB2	39:BE:23:VAL:O	2.18	0.44
39:BE:47:VAL:HG22	39:BE:48:GLN:O	2.17	0.44
40:BF:124:LEU:O	40:BF:193:VAL:HA	2.17	0.44
40:BF:136:THR:O	40:BF:137:LYS:C	2.60	0.44
41:BG:60:LEU:HD13	41:BG:60:LEU:C	2.43	0.44
41:BG:149:VAL:O	41:BG:149:VAL:HG13	2.16	0.44
43:BI:47:LEU:HD12	43:BI:50:ARG:HH12	1.81	0.44
47:BP:58:THR:O	47:BP:58:THR:HG22	2.18	0.44
47:BP:91:PHE:CD1	47:BP:91:PHE:N	2.74	0.44
49:BR:32:GLY:O	49:BR:115:GLU:HA	2.16	0.44
49:BR:56:LYS:C	49:BR:58:GLY:N	2.75	0.44
51:BT:30:VAL:HG21	51:BT:84:GLN:CG	2.47	0.44
52:BU:90:VAL:HG11	53:BV:39:LEU:HB2	1.98	0.44
56:BY:18:GLY:C	56:BY:20:TYR:N	2.71	0.44
1:CA:284:G:H2'	1:CA:285:G:H8	1.82	0.44
1:CA:939:G:H5"	7:CG:102:ARG:HH22	1.77	0.44
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.32	0.44
1:CA:1187:G:OP1	9:CI:113:LYS:HE2	2.17	0.44
1:CA:1381:U:H1'	7:CG:78:ARG:HH11	1.82	0.44
4:CD:209:ARG:HG3	4:CD:209:ARG:NH1	2.32	0.44
5:CE:135:THR:O	5:CE:136:MET:C	2.59	0.44
7:CG:47:CYS:HA	7:CG:50:ILE:CG1	2.48	0.44
9:CI:43:ALA:C	9:CI:45:ALA:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:65:ALA:HB1	11:CK:98:LEU:CD2	2.47	0.44
12:CL:38:THR:HG22	12:CL:57:LYS:O	2.18	0.44
13:CM:85:GLY:O	13:CM:86:CYS:SG	2.76	0.44
17:CQ:43:LEU:HB2	17:CQ:69:LYS:HG2	2.00	0.44
18:CR:85:LEU:CD2	18:CR:88:LYS:HG2	2.47	0.44
19:CS:33:THR:OG1	19:CS:34:TRP:N	2.50	0.44
22:CV:1:G:C6	22:CV:75:A:C6	3.05	0.44
22:CV:58:C:O2'	22:CV:59:G:H5'	2.18	0.44
23:CW:30:U:C4	23:CW:31:C:C4	3.06	0.44
26:D1:72:GLU:O	26:D1:75:GLU:HB3	2.17	0.44
26:D1:82:LEU:N	26:D1:82:LEU:CD2	2.80	0.44
26:D1:85:LEU:O	26:D1:86:SER:CB	2.64	0.44
28:D3:28:LEU:HA	28:D3:33:GLN:OE1	2.18	0.44
35:DA:29:U:H2'	35:DA:30:G:C8	2.52	0.44
35:DA:364:C:C2'	35:DA:365:C:H5"	2.48	0.44
35:DA:826:U:H2'	35:DA:828:U:O4'	2.18	0.44
35:DA:1000:A:H2'	35:DA:1001:A:C8	2.52	0.44
35:DA:1021:A:H3'	35:DA:1021:A:C8	2.52	0.44
35:DA:1142(A):A:H5'	35:DA:1142(A):A:C8	2.52	0.44
35:DA:1312:U:P	55:DX:63:LYS:HD2	2.57	0.44
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.81	0.44
35:DA:2688:U:H1'	35:DA:2721:A:N6	2.32	0.44
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.82	0.44
37:DC:30:VAL:CG1	37:DC:42:VAL:HG22	2.44	0.44
39:DE:134:ILE:HA	39:DE:137:HIS:CD2	2.52	0.44
41:DG:96:ARG:HB2	41:DG:97:ASP:H	1.58	0.44
41:DG:171:ALA:O	41:DG:175:LEU:N	2.44	0.44
43:DI:102:SER:HA	43:DI:107:VAL:O	2.18	0.44
43:DI:109:ILE:HG22	43:DI:114:LEU:HD11	1.99	0.44
46:DO:104:ARG:HB3	46:DO:104:ARG:NH1	2.33	0.44
46:DO:105:GLU:OE1	46:DO:105:GLU:N	2.50	0.44
50:DS:24:LEU:N	50:DS:24:LEU:HD22	2.32	0.44
51:DT:106:SER:C	51:DT:107:ASP:CG	2.86	0.44
53:DV:27:ALA:O	53:DV:28:GLU:C	2.59	0.44
53:DV:41:GLY:N	53:DV:45:THR:OG1	2.51	0.44
55:DX:56:THR:HG22	55:DX:79:ALA:CB	2.47	0.44
56:DY:4:LYS:HD2	56:DY:32:PRO:HG3	1.99	0.44
1:AA:185:A:H2'	1:AA:186:C:C6	2.51	0.44
1:AA:187:C:H2'	1:AA:188:C:C6	2.53	0.44
1:AA:197:A:N6	1:AA:221:C:H5"	2.32	0.44
1:AA:223:U:O2'	1:AA:224:C:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:473:G:H5”	16:AP:81:ARG:HE	1.82	0.44
1:AA:611:A:H2	1:AA:630:G:N2	2.16	0.44
1:AA:766:A:H2’	1:AA:767:A:O4’	2.18	0.44
1:AA:999:C:O2’	1:AA:1000:U:H5’	2.17	0.44
1:AA:1431:C:H2’	1:AA:1432:G:O4’	2.18	0.44
2:AB:180:LEU:O	2:AB:181:PHE:HB2	2.17	0.44
3:AC:57:ILE:HG22	3:AC:58:GLU:N	2.32	0.44
4:AD:98:GLU:OE2	4:AD:107:ARG:HD2	2.17	0.44
4:AD:196:LEU:HD12	4:AD:196:LEU:N	2.31	0.44
5:AE:31:LEU:HD21	5:AE:43:LEU:HD11	1.99	0.44
5:AE:127:ASN:OD1	5:AE:129:ILE:HB	2.16	0.44
9:AI:53:VAL:HB	9:AI:92:TYR:CE2	2.51	0.44
12:AL:37:CYS:CA	12:AL:58:VAL:HG22	2.47	0.44
12:AL:53:ARG:HD2	12:AL:53:ARG:N	2.33	0.44
14:AN:22:THR:OG1	14:AN:33:VAL:HG21	2.18	0.44
15:AO:64:ARG:HG3	15:AO:64:ARG:NH1	2.31	0.44
22:AV:19:G:H2’	22:AV:59:G:H22	1.81	0.44
22:AV:26:G:C4	22:AV:27:C:N3	2.85	0.44
23:AW:20:G:C5	23:AW:59:G:C2	3.06	0.44
26:B1:88:LYS:O	26:B1:88:LYS:HD3	2.17	0.44
33:B8:38:GLY:O	33:B8:42:ARG:HB2	2.17	0.44
35:BA:17:G:H4’	52:BU:25:TRP:CZ3	2.53	0.44
35:BA:146:G:H5’	35:BA:146:G:C8	2.52	0.44
35:BA:259:G:N2	35:BA:621:A:H8	2.10	0.44
35:BA:706:A:H2’	35:BA:707:G:O4’	2.18	0.44
35:BA:2033:A:O2’	35:BA:2034:U:P	2.75	0.44
35:BA:2124:G:O3’	37:BC:41:THR:HG21	2.18	0.44
35:BA:2755:C:O2’	35:BA:2756:U:H2’	2.18	0.44
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.17	0.44
43:BI:8:PRO:HB3	43:BI:14:ASP:N	2.33	0.44
43:BI:107:VAL:O	43:BI:109:ILE:HD11	2.17	0.44
43:BI:109:ILE:HD12	43:BI:109:ILE:H	1.83	0.44
43:BI:129:THR:HG22	43:BI:130:TYR:N	2.33	0.44
45:BN:61:ARG:HH11	45:BN:61:ARG:HG3	1.83	0.44
47:BP:18:ARG:HH11	47:BP:18:ARG:CB	2.30	0.44
48:BQ:32:TYR:HE1	48:BQ:133:ARG:NH1	2.16	0.44
48:BQ:45:GLN:CD	48:BQ:45:GLN:N	2.75	0.44
57:BZ:53:ILE:HG22	57:BZ:71:VAL:CB	2.48	0.44
1:CA:30:U:H4’	1:CA:31:G:OP1	2.13	0.44
1:CA:185:A:H2’	1:CA:186:C:C6	2.53	0.44
1:CA:479:C:O2	1:CA:479:C:H2’	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:656:C:H2'	1:CA:657:G:O4'	2.17	0.44
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.18	0.44
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.53	0.44
5:CE:101:ILE:HD13	5:CE:101:ILE:H	1.82	0.44
6:CF:12:PRO:O	6:CF:13:ASN:CG	2.61	0.44
9:CI:99:LEU:C	9:CI:101:PHE:N	2.75	0.44
12:CL:46:LYS:HE3	12:CL:92:ASP:HA	1.98	0.44
18:CR:45:SER:HB3	18:CR:51:LEU:HD21	1.99	0.44
22:CV:3:G:C2'	22:CV:4:C:C5'	2.95	0.44
22:CV:57:U:C5	22:CV:59:G:OP2	2.70	0.44
23:CW:20:G:C6	23:CW:58:C:N4	2.86	0.44
23:CW:20:G:N2	23:CW:58:C:C2	2.85	0.44
23:CW:47:G:O2'	23:CW:48:G:C5'	2.65	0.44
25:D0:16:SER:HB3	35:DA:2262:U:OP2	2.18	0.44
26:D1:45:ASN:ND2	26:D1:47:GLN:NE2	2.58	0.44
27:D2:2:LYS:O	27:D2:3:LEU:C	2.60	0.44
30:D5:25:LEU:HD11	54:DW:41:LYS:HE3	1.99	0.44
31:D6:25:LYS:NZ	33:D8:34:TRP:HZ2	2.16	0.44
35:DA:433:C:H2'	35:DA:434:U:C6	2.53	0.44
35:DA:444:C:O2'	35:DA:445:C:H5'	2.18	0.44
35:DA:586:A:H5'	40:DF:89:VAL:HG21	2.00	0.44
35:DA:1040:C:N4	35:DA:1115:G:H1	2.09	0.44
35:DA:1155:A:O2'	35:DA:1156:A:H2'	2.17	0.44
35:DA:1667:G:H22	35:DA:1992:G:H5'	1.83	0.44
35:DA:1711:C:H2'	35:DA:1712:C:H6	1.83	0.44
35:DA:1775:U:H2'	35:DA:1776:G:C5'	2.46	0.44
35:DA:1951:U:H2'	35:DA:1953:A:OP2	2.18	0.44
35:DA:2330:G:H2'	35:DA:2331:G:O4'	2.18	0.44
35:DA:2439:A:H5'	35:DA:2439:A:H8	1.80	0.44
37:DC:210:LEU:HD13	37:DC:227:PRO:CG	2.47	0.44
38:DD:30:GLU:HG3	38:DD:63:ARG:NH2	2.32	0.44
38:DD:65:ILE:HD13	38:DD:65:ILE:O	2.17	0.44
40:DF:178:PRO:HB3	40:DF:198:ALA:CB	2.48	0.44
41:DG:14:GLU:O	41:DG:17:PRO:HD2	2.18	0.44
41:DG:17:PRO:C	41:DG:19:LEU:H	2.24	0.44
43:DI:119:PRO:O	43:DI:120:ILE:C	2.60	0.44
43:DI:120:ILE:O	43:DI:121:LYS:C	2.61	0.44
50:DS:66:ALA:HA	50:DS:69:VAL:CG1	2.47	0.44
51:DT:30:VAL:HA	51:DT:44:ASP:HA	2.00	0.44
52:DU:91:ASP:OD1	52:DU:96:ALA:CB	2.61	0.44
57:DZ:94:GLU:H	57:DZ:94:GLU:HG2	1.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:99:TYR:HA	57:DZ:124:ILE:O	2.17	0.44
57:DZ:130:PRO:O	57:DZ:133:ILE:HD11	2.16	0.44
1:AA:538:G:O2'	1:AA:539:A:H5'	2.17	0.44
1:AA:751:U:H2'	1:AA:752:G:H5'	1.99	0.44
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.33	0.44
2:AB:42:ILE:CD1	2:AB:203:GLY:HA2	2.42	0.44
3:AC:40:ARG:CA	3:AC:55:VAL:HG11	2.41	0.44
3:AC:113:ALA:O	3:AC:115:LEU:N	2.51	0.44
4:AD:14:ARG:C	4:AD:16:GLY:N	2.75	0.44
4:AD:24:GLU:O	4:AD:27:TYR:HB2	2.17	0.44
4:AD:30:LYS:C	4:AD:32:ALA:N	2.56	0.44
5:AE:64:ARG:HH11	5:AE:64:ARG:CG	2.31	0.44
10:AJ:7:LYS:HD3	10:AJ:71:LEU:HD13	2.00	0.44
13:AM:18:ALA:CB	13:AM:45:VAL:HG21	2.48	0.44
15:AO:17:ARG:CD	15:AO:26:GLU:OE1	2.66	0.44
19:AS:13:ASP:C	19:AS:15:LEU:N	2.76	0.44
19:AS:13:ASP:O	19:AS:15:LEU:N	2.51	0.44
20:AT:42:GLN:HA	20:AT:42:GLN:NE2	2.31	0.44
23:AW:5:C:C2	23:AW:72:C:C2	3.06	0.44
22:AY:25:A:C2	22:AY:26:G:C6	3.06	0.44
22:AY:63:C:C4'	57:BZ:186:GLU:HA	2.48	0.44
25:B0:36:ILE:C	25:B0:36:ILE:HD12	2.43	0.44
35:BA:252:G:OP2	47:BP:50:ARG:NH2	2.47	0.44
35:BA:573:G:O2'	35:BA:574:C:H3'	2.18	0.44
35:BA:807:U:O2'	35:BA:808:G:H5'	2.18	0.44
35:BA:1204:A:H61	35:BA:1240:U:H2'	1.82	0.44
35:BA:2299:G:N2	35:BA:2318:G:H1'	2.32	0.44
35:BA:2865:U:C4	35:BA:2866:U:C4	3.06	0.44
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.52	0.44
38:BD:65:ILE:HD13	38:BD:65:ILE:O	2.18	0.44
38:BD:110:GLY:O	38:BD:112:GLN:HG2	2.18	0.44
39:BE:76:ARG:O	39:BE:77:ILE:O	2.36	0.44
40:BF:67:GLN:O	40:BF:67:GLN:CG	2.66	0.44
41:BG:118:ARG:H	41:BG:181:ARG:NH2	2.11	0.44
43:BI:66:GLU:OE2	43:BI:69:LYS:HE3	2.17	0.44
45:BN:2:LYS:NZ	52:BU:95:LEU:CD2	2.76	0.44
45:BN:3:THR:C	45:BN:5:VAL:N	2.68	0.44
45:BN:128:HIS:HA	45:BN:129:PRO:HD2	1.84	0.44
48:BQ:63:LYS:HE3	48:BQ:65:PHE:HE1	1.81	0.44
49:BR:33:ARG:HA	49:BR:114:VAL:O	2.18	0.44
49:BR:97:VAL:CG1	49:BR:114:VAL:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:54:LEU:HD23	50:BS:58:LEU:O	2.17	0.44
50:BS:89:ARG:O	50:BS:90:GLY:O	2.35	0.44
51:BT:26:ASP:HB3	51:BT:89:VAL:O	2.17	0.44
51:BT:57:PHE:O	51:BT:59:THR:HG23	2.18	0.44
53:BV:62:LEU:N	53:BV:62:LEU:HD22	2.33	0.44
53:BV:82:ARG:O	53:BV:83:ARG:HG2	2.17	0.44
57:BZ:119:GLU:HG3	57:BZ:122:ARG:NH1	2.32	0.44
1:CA:137:C:H42	1:CA:226:G:H1	1.65	0.44
1:CA:154:C:O2'	1:CA:155:C:H5'	2.18	0.44
1:CA:328:C:H2'	1:CA:328:C:O2	2.18	0.44
1:CA:501:C:OP1	12:CL:117:ARG:NH2	2.46	0.44
1:CA:811:C:O2'	1:CA:901:A:N1	2.47	0.44
1:CA:823:G:H21	8:CH:1:MET:CE	2.30	0.44
1:CA:983:A:H3'	1:CA:983:A:N3	2.32	0.44
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.17	0.44
1:CA:1437:C:O2'	1:CA:1438:G:H5'	2.18	0.44
2:CB:32:ILE:CD1	2:CB:40:HIS:HB3	2.47	0.44
2:CB:59:GLU:O	2:CB:62:ALA:HB3	2.17	0.44
3:CC:178:LEU:N	3:CC:178:LEU:HD22	2.33	0.44
4:CD:2:GLY:O	4:CD:3:ARG:O	2.35	0.44
4:CD:117:ALA:O	4:CD:118:ARG:C	2.60	0.44
5:CE:40:ARG:HG2	5:CE:40:ARG:NH1	2.30	0.44
7:CG:76:ARG:HH11	7:CG:76:ARG:HG2	1.83	0.44
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.32	0.44
11:CK:44:SER:H	11:CK:47:VAL:CG2	2.30	0.44
22:CV:14:A:C5	22:CV:24:A:C6	3.06	0.44
22:CV:69:G:H2'	22:CV:70:G:H8	1.82	0.44
23:CW:77:C:O5'	23:CW:77:C:H6	2.00	0.44
27:D2:47:ASN:O	27:D2:50:ILE:N	2.50	0.44
31:D6:43:CYS:O	31:D6:44:ARG:CB	2.60	0.44
35:DA:373:U:H2'	35:DA:374:A:C8	2.52	0.44
35:DA:498:G:O2'	56:DY:60:PHE:HZ	2.01	0.44
35:DA:654(P):C:H2'	35:DA:654(Q):C:O4'	2.17	0.44
35:DA:1180:C:O2	35:DA:1180:C:H2'	2.17	0.44
35:DA:1259:G:O2'	35:DA:1260:G:H5'	2.17	0.44
35:DA:1467:C:C2'	35:DA:1468:C:H5'	2.48	0.44
35:DA:2418:A:H2'	35:DA:2419:U:C6	2.53	0.44
35:DA:2712:U:O2'	35:DA:2712(A):A:P	2.76	0.44
40:DF:33:LEU:O	40:DF:37:VAL:HG23	2.17	0.44
41:DG:112:PRO:C	41:DG:113:ARG:CA	2.91	0.44
41:DG:158:ALA:O	41:DG:159:VAL:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DO:18:LYS:HD2	46:DO:45:GLU:OE1	2.17	0.44
49:DR:25:ALA:O	49:DR:29:LEU:HB2	2.17	0.44
50:DS:16:ASN:O	50:DS:19:LYS:HB2	2.18	0.44
50:DS:54:LEU:HD23	50:DS:58:LEU:O	2.17	0.44
51:DT:106:SER:O	51:DT:107:ASP:CG	2.60	0.44
52:DU:90:VAL:HG21	53:DV:39:LEU:HB3	1.99	0.44
54:DW:4:LYS:HD3	54:DW:6:ILE:HD11	1.98	0.44
55:DX:57:LEU:HD22	55:DX:57:LEU:C	2.43	0.44
57:DZ:9:TYR:HA	57:DZ:37:VAL:HG12	1.99	0.44
57:DZ:152:ALA:HA	57:DZ:168:GLU:N	2.33	0.44
1:AA:153:C:H2'	1:AA:154:C:H6	1.80	0.44
1:AA:191:G:N9	20:AT:105:SER:HB3	2.32	0.44
1:AA:250:A:O2'	1:AA:251:G:P	2.76	0.44
1:AA:371:G:N2	1:AA:374:A:N6	2.66	0.44
1:AA:386:C:C2'	1:AA:387:U:H5'	2.48	0.44
1:AA:401:C:H3'	1:AA:401:C:C6	2.52	0.44
1:AA:451:A:N6	1:AA:480:U:H2'	2.33	0.44
1:AA:600:C:H2'	1:AA:601:C:H6	1.81	0.44
1:AA:943:U:H1'	9:AI:124:GLN:HE22	1.83	0.44
1:AA:1182:G:H4'	1:AA:1184:G:OP2	2.18	0.44
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.52	0.44
2:AB:39:ILE:HG22	2:AB:40:HIS:N	2.33	0.44
2:AB:121:LEU:HD23	2:AB:124:SER:CB	2.48	0.44
2:AB:230:VAL:HG23	2:AB:231:GLU:H	1.83	0.44
5:AE:87:SER:HB3	5:AE:131:ILE:HD13	2.00	0.44
9:AI:65:VAL:O	9:AI:65:VAL:HG13	2.17	0.44
10:AJ:30:SER:C	10:AJ:80:LYS:NZ	2.76	0.44
11:AK:111:ASP:HA	18:AR:84:LYS:HE2	2.00	0.44
23:AW:28:G:OP2	23:AW:28:G:H3'	2.18	0.44
23:AW:40:A:C5	23:AW:42:C:C4	3.06	0.44
22:AY:44:A:C4	22:AY:45:U:C6	3.06	0.44
33:B8:16:ILE:HD12	33:B8:57:ARG:HG2	1.98	0.44
35:BA:402:A:O2'	35:BA:403:U:H5'	2.17	0.44
35:BA:498:G:O2'	35:BA:499:U:H5'	2.18	0.44
35:BA:613:G:C5'	35:BA:613:G:C8	2.92	0.44
35:BA:614:U:O2	35:BA:614:U:O4'	2.34	0.44
35:BA:745:G:H2'	35:BA:746:A:H5'	2.00	0.44
35:BA:1140:C:H1'	35:BA:1143:A:N3	2.33	0.44
35:BA:1506:C:O2	35:BA:1506:C:C2'	2.65	0.44
35:BA:1652:A:H4'	35:BA:1653:G:OP1	2.18	0.44
35:BA:2134:A:H61	35:BA:2157:G:C1'	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:32:PRO:HA	41:BG:162:THR:HB	2.00	0.44
42:BH:109:PHE:C	42:BH:111:HIS:H	2.25	0.44
43:BI:77:LEU:O	43:BI:141:LYS:HG2	2.17	0.44
45:BN:16:ILE:HG12	45:BN:17:ASP:N	2.33	0.44
49:BR:38:VAL:HG12	49:BR:42:LYS:HD2	2.00	0.44
50:BS:25:ARG:HB3	50:BS:25:ARG:NH1	2.32	0.44
51:BT:80:SER:OG	51:BT:81:PRO:HD3	2.17	0.44
51:BT:122:ASP:C	51:BT:124:ASP:N	2.75	0.44
51:BT:122:ASP:O	51:BT:124:ASP:N	2.50	0.44
52:BU:97:ASP:OD1	52:BU:98:LEU:N	2.50	0.44
53:BV:75:PHE:C	53:BV:75:PHE:CD1	2.95	0.44
1:CA:9:G:O2'	1:CA:10:A:H5'	2.16	0.44
1:CA:176:C:H2'	1:CA:177:C:C6	2.52	0.44
1:CA:223:U:O2'	1:CA:224:C:H5'	2.18	0.44
1:CA:375:U:O2'	16:CP:28:ARG:HD2	2.18	0.44
1:CA:487:A:H2'	1:CA:488:C:O4'	2.18	0.44
1:CA:502:G:OP1	12:CL:118:SER:CB	2.66	0.44
1:CA:587:G:C6	1:CA:755:G:C6	3.06	0.44
1:CA:943:U:H1'	9:CI:124:GLN:HE22	1.83	0.44
1:CA:977:A:C2'	1:CA:978:A:H5'	2.47	0.44
1:CA:1030(B):C:H2'	1:CA:1030(C):G:O4'	2.17	0.44
2:CB:173:ALA:O	2:CB:174:VAL:C	2.61	0.44
4:CD:170:VAL:HG12	4:CD:171:GLY:N	2.33	0.44
7:CG:135:VAL:O	7:CG:136:LYS:C	2.61	0.44
7:CG:143:ARG:CZ	23:CW:44:A:H5"	2.47	0.44
10:CJ:4:ILE:CD1	10:CJ:77:PRO:HB3	2.48	0.44
11:CK:33:THR:HB	11:CK:37:GLY:O	2.18	0.44
11:CK:124:LYS:NZ	11:CK:124:LYS:CB	2.81	0.44
12:CL:58:VAL:O	12:CL:65:GLU:HG3	2.16	0.44
15:CO:27:VAL:C	15:CO:29:VAL:N	2.75	0.44
19:CS:13:ASP:O	19:CS:15:LEU:N	2.51	0.44
22:CV:6:C:C2	22:CV:70:G:C2	3.06	0.44
22:CV:57:U:C4	22:CV:59:G:OP2	2.71	0.44
22:CY:25:A:C2	22:CY:26:G:C5	3.06	0.44
22:CY:35:U:H3'	22:CY:36:AG9:C5'	2.41	0.44
22:CY:56:U:H4'	48:DQ:52:VAL:HG22	2.00	0.44
22:CY:61:A:O2'	22:CY:62:U:H5'	2.18	0.44
27:D2:65:ASN:C	27:D2:69:ARG:NH1	2.76	0.44
31:D6:39:TYR:CE1	35:DA:2347:C:OP1	2.71	0.44
31:D6:54:ILE:CD1	31:D6:54:ILE:O	2.65	0.44
33:D8:61:LEU:H	33:D8:61:LEU:HG	1.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:389:G:H22	47:DP:72:PRO:HD3	1.83	0.44
35:DA:408:G:O2'	35:DA:409:C:H5'	2.17	0.44
35:DA:1386:C:OP2	35:DA:1396:U:H5	2.01	0.44
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.53	0.44
35:DA:1899:G:N2	35:DA:1902:C:C4	2.84	0.44
35:DA:1912:A:C8	35:DA:1918:A:C2	3.05	0.44
35:DA:2405:G:H1'	35:DA:2412:A:N6	2.33	0.44
35:DA:2698:U:H2'	35:DA:2699:C:C6	2.53	0.44
38:DD:67:PHE:CZ	38:DD:157:ARG:CZ	3.00	0.44
41:DG:152:LEU:N	41:DG:152:LEU:CD2	2.78	0.44
47:DP:16:ARG:NH1	47:DP:16:ARG:O	2.49	0.44
48:DQ:29:PHE:HB3	48:DQ:65:PHE:CD2	2.52	0.44
48:DQ:32:TYR:CZ	48:DQ:111:GLU:HG3	2.53	0.44
48:DQ:99:PRO:HB2	57:DZ:79:ARG:HH21	1.83	0.44
49:DR:9:LYS:C	49:DR:10:LEU:HG	2.43	0.44
53:DV:60:GLU:O	53:DV:62:LEU:HD22	2.18	0.44
54:DW:36:LEU:CD1	54:DW:48:ALA:HA	2.48	0.44
57:DZ:43:GLU:CG	57:DZ:44:PHE:N	2.81	0.44
57:DZ:79:ARG:O	57:DZ:80:ARG:HB2	2.18	0.44
57:DZ:144:LEU:CD1	57:DZ:149:SER:HA	2.48	0.44
1:AA:582:U:C2	1:AA:760:G:C6	3.06	0.44
1:AA:921:U:H2'	1:AA:922:G:O4'	2.18	0.44
1:AA:951:G:C6	1:AA:1231:G:C6	3.05	0.44
1:AA:977:A:C2'	1:AA:978:A:H5'	2.47	0.44
1:AA:1048:G:OP1	14:AN:4:LYS:HB2	2.18	0.44
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.81	0.44
1:AA:1266:G:N2	1:AA:1268:A:H3'	2.32	0.44
4:AD:76:ARG:O	4:AD:77:ASN:C	2.60	0.44
5:AE:150:ARG:NH1	5:AE:150:ARG:CB	2.81	0.44
6:AF:81:ILE:O	6:AF:82:ARG:C	2.60	0.44
7:AG:47:CYS:HA	7:AG:50:ILE:CG1	2.48	0.44
9:AI:26:VAL:HA	9:AI:61:ALA:O	2.17	0.44
11:AK:33:THR:HB	11:AK:37:GLY:O	2.18	0.44
11:AK:86:GLY:N	11:AK:112:THR:OG1	2.47	0.44
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	2.00	0.44
13:AM:97:PRO:O	13:AM:98:VAL:HA	2.18	0.44
15:AO:34:LEU:O	15:AO:35:ARG:C	2.61	0.44
17:AQ:37:LYS:HB2	17:AQ:37:LYS:HE3	1.75	0.44
32:B7:10:ARG:HH12	35:BA:1378:A:H5"	1.83	0.44
34:B9:17:ILE:HG13	34:B9:26:ILE:HD12	2.00	0.44
35:BA:146:G:C2'	35:BA:147:U:H5'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:319:C:H2'	35:BA:320:A:O4'	2.17	0.44
35:BA:466:A:H2'	35:BA:467:G:H5'	1.99	0.44
35:BA:610:G:H2'	35:BA:611:C:C6	2.53	0.44
35:BA:803:U:O2'	35:BA:804:A:H5'	2.18	0.44
35:BA:838:C:O2'	35:BA:839:U:H5'	2.18	0.44
35:BA:871:U:OP1	48:BQ:5:ARG:HG3	2.18	0.44
35:BA:1040:C:O2'	35:BA:1041:C:P	2.76	0.44
35:BA:1332:G:H8	35:BA:1332:G:H5"	1.83	0.44
35:BA:1388:G:O2'	35:BA:1389:G:H5'	2.18	0.44
35:BA:1545:A:H2'	35:BA:1546:C:O4'	2.17	0.44
35:BA:1827:C:OP2	38:BD:222:ARG:NH1	2.51	0.44
35:BA:2538:C:O2'	35:BA:2539:C:H5'	2.18	0.44
36:BB:16:G:O2'	36:BB:17:C:H5'	2.18	0.44
36:BB:17:C:H2'	36:BB:18:G:O4'	2.18	0.44
39:BE:25:VAL:HG21	51:BT:8:LYS:HG2	2.00	0.44
39:BE:101:ARG:HH11	39:BE:171:GLU:CB	2.16	0.44
40:BF:72:ARG:NH1	40:BF:72:ARG:HB3	2.33	0.44
47:BP:41:ARG:HE	47:BP:41:ARG:CA	2.30	0.44
47:BP:83:VAL:HG11	47:BP:112:LEU:HD21	2.00	0.44
50:BS:14:VAL:HG12	50:BS:14:VAL:O	2.16	0.44
50:BS:90:GLY:C	50:BS:92:TYR:N	2.68	0.44
51:BT:35:LYS:O	51:BT:36:GLU:CB	2.66	0.44
51:BT:51:ARG:HB2	51:BT:98:LYS:HG3	2.00	0.44
53:BV:5:VAL:CG2	53:BV:6:LYS:N	2.81	0.44
53:BV:66:ARG:HG2	53:BV:66:ARG:NH1	2.32	0.44
56:BY:47:LYS:O	56:BY:48:ALA:CB	2.66	0.44
56:BY:77:PRO:O	56:BY:78:ALA:HB2	2.18	0.44
57:BZ:128:VAL:CG2	57:BZ:161:VAL:HG22	2.48	0.44
1:CA:668:G:H4'	15:CO:48:LYS:HB2	1.99	0.44
1:CA:865:A:O2'	1:CA:919:A:H4'	2.18	0.44
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.18	0.44
4:CD:14:ARG:C	4:CD:16:GLY:N	2.75	0.44
11:CK:61:ALA:HB3	11:CK:90:GLY:HA3	2.00	0.44
15:CO:34:LEU:O	15:CO:35:ARG:C	2.61	0.44
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.51	0.44
23:CW:2:G:C2	23:CW:3:G:C4	3.06	0.44
22:CY:5:C:O2	22:CY:70:G:N1	2.50	0.44
22:CY:28:G:H3'	22:CY:29:A:N7	2.33	0.44
33:D8:33:ASN:N	33:D8:33:ASN:HD22	2.14	0.44
35:DA:26:G:C6	35:DA:27:G:N1	2.86	0.44
35:DA:221:A:O2'	35:DA:222:A:OP2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:271(X):G:O2'	35:DA:271(Y):U:H5"	2.17	0.44
35:DA:272(B):G:O2'	35:DA:272(C):G:C5'	2.66	0.44
35:DA:530:G:C5	35:DA:2022:U:H5"	2.52	0.44
35:DA:772:C:O2'	35:DA:773:U:H5'	2.17	0.44
35:DA:856:C:O2	35:DA:856:C:H2'	2.17	0.44
35:DA:954:G:H2'	35:DA:955:C:H6	1.83	0.44
35:DA:964:C:N3	35:DA:965:C:C5	2.86	0.44
35:DA:1140:C:OP1	45:DN:23:LEU:O	2.35	0.44
35:DA:2014:A:H2'	35:DA:2015:A:C8	2.53	0.44
35:DA:2124:G:H1'	37:DC:43:GLU:OE1	2.18	0.44
35:DA:2134:A:H1'	35:DA:2159:G:H21	1.79	0.44
37:DC:34:ALA:HB1	37:DC:40:GLU:HG3	1.98	0.44
38:DD:13:ARG:NH1	38:DD:16:MET:SD	2.91	0.44
38:DD:231:HIS:CG	38:DD:232:PRO:HD2	2.53	0.44
40:DF:15:SER:O	40:DF:16:GLY:O	2.36	0.44
42:DH:143:GLN:HE22	42:DH:147:ASN:HD21	1.66	0.44
42:DH:159:GLU:OE1	42:DH:159:GLU:HA	2.17	0.44
43:DI:111:PRO:O	43:DI:116:LEU:HD22	2.18	0.44
46:DO:71:ARG:HH11	46:DO:71:ARG:HG3	1.83	0.44
48:DQ:12:GLN:HE21	48:DQ:73:PRO:CD	2.31	0.44
48:DQ:87:LYS:O	48:DQ:88:GLY:C	2.61	0.44
49:DR:28:LEU:HD22	49:DR:28:LEU:O	2.18	0.44
50:DS:25:ARG:NH1	50:DS:25:ARG:HB3	2.33	0.44
51:DT:35:LYS:O	51:DT:36:GLU:CB	2.66	0.44
54:DW:3:ALA:CB	54:DW:58:ALA:HB2	2.47	0.44
1:AA:226:G:O2'	1:AA:227:G:H5'	2.18	0.43
1:AA:781:A:C3'	1:AA:782:A:H5'	2.47	0.43
1:AA:1003:G:N2	1:AA:1038:C:N4	2.66	0.43
1:AA:1236:A:O2'	1:AA:1304:G:H4'	2.18	0.43
2:AB:199:TYR:CD1	2:AB:199:TYR:N	2.86	0.43
3:AC:44:GLU:HA	3:AC:52:LEU:HD11	2.00	0.43
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.17	0.43
4:AD:57:ARG:HD2	4:AD:57:ARG:H	1.83	0.43
5:AE:62:ALA:C	5:AE:64:ARG:N	2.76	0.43
6:AF:27:GLN:HE21	6:AF:27:GLN:HA	1.83	0.43
11:AK:21:ILE:CD1	11:AK:82:VAL:HG13	2.48	0.43
12:AL:47:LYS:HB3	12:AL:47:LYS:HZ3	1.83	0.43
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.32	0.43
13:AM:112:GLY:CA	13:AM:113:PRO:HG2	2.45	0.43
14:AN:23:ARG:HA	14:AN:29:ARG:O	2.17	0.43
17:AQ:43:LEU:HB2	17:AQ:69:LYS:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:38:U:O2	23:AW:39:A:N7	2.51	0.43
22:AY:4:C:C2	22:AY:5:C:C4	3.05	0.43
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.51	0.43
30:B5:51:TYR:CZ	30:B5:52:TYR:CD2	3.04	0.43
33:B8:56:GLU:HG3	33:B8:59:LYS:HZ1	1.82	0.43
34:B9:15:LYS:HB3	35:BA:1033:U:O4	2.17	0.43
35:BA:71:A:C2	55:BX:31:HIS:CE1	3.05	0.43
35:BA:141:A:H8	35:BA:1408:C:O2'	1.95	0.43
35:BA:833:U:H5"	47:BP:48:PRO:HB3	1.99	0.43
35:BA:1540:U:O3'	35:BA:1542:A:OP1	2.36	0.43
35:BA:1771:C:C1'	35:BA:1786:A:C8	3.00	0.43
35:BA:1884:A:C2'	35:BA:1885:A:C5'	2.83	0.43
35:BA:1914:C:P	35:BA:1914:C:C3'	3.06	0.43
35:BA:2638:G:OP1	39:BE:82:ARG:NH2	2.51	0.43
38:BD:80:ALA:HB3	38:BD:94:LEU:HD13	1.99	0.43
39:BE:89:ASP:O	39:BE:90:THR:O	2.36	0.43
41:BG:51:ARG:NH1	41:BG:53:LEU:HD21	2.33	0.43
41:BG:57:ALA:HA	41:BG:90:LEU:CD2	2.47	0.43
41:BG:92:VAL:O	41:BG:92:VAL:HG13	2.16	0.43
42:BH:143:GLN:HE22	42:BH:147:ASN:HD21	1.66	0.43
43:BI:120:ILE:O	43:BI:121:LYS:C	2.61	0.43
45:BN:1:MET:H3	53:BV:20:LEU:HD21	1.82	0.43
45:BN:99:LEU:O	45:BN:103:VAL:HG23	2.18	0.43
45:BN:123:TYR:OH	45:BN:130:HIS:HE1	2.01	0.43
46:BO:10:VAL:HG22	46:BO:17:ARG:O	2.18	0.43
47:BP:23:PRO:HD2	47:BP:33:ARG:NE	2.32	0.43
47:BP:45:LEU:CD2	47:BP:46:LYS:H	2.31	0.43
47:BP:90:ARG:HD2	47:BP:91:PHE:HD1	1.82	0.43
48:BQ:87:LYS:O	48:BQ:88:GLY:C	2.61	0.43
49:BR:11:ASN:O	49:BR:12:ARG:CG	2.61	0.43
50:BS:17:ARG:C	50:BS:19:LYS:N	2.74	0.43
52:BU:83:LEU:CD1	52:BU:88:ILE:HD12	2.42	0.43
56:BY:55:TYR:O	56:BY:56:PRO:C	2.60	0.43
57:BZ:179:ASP:N	57:BZ:182:LYS:CE	2.81	0.43
1:CA:61:G:H2'	1:CA:62:U:O4'	2.17	0.43
1:CA:191:G:N9	20:CT:105:SER:HB3	2.33	0.43
1:CA:250:A:H4'	1:CA:251:G:O5'	2.18	0.43
1:CA:439:A:H2'	1:CA:441:A:C4'	2.46	0.43
1:CA:630:G:H2'	1:CA:631:G:H5'	2.00	0.43
1:CA:951:G:C6	1:CA:1231:G:C6	3.06	0.43
1:CA:1149:C:OP1	9:CI:9:ARG:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1288:A:H2	1:CA:1352:C:O2	2.00	0.43
1:CA:1387:G:C6	1:CA:1388:C:N4	2.86	0.43
2:CB:19:HIS:HD2	2:CB:189:ASP:OD2	2.00	0.43
3:CC:107:GLN:O	3:CC:108:ASN:HB2	2.17	0.43
5:CE:33:VAL:HG22	5:CE:109:ILE:HG12	2.00	0.43
5:CE:107:ARG:O	5:CE:110:LEU:N	2.47	0.43
12:CL:42:THR:HG23	12:CL:42:THR:O	2.18	0.43
13:CM:68:GLY:H	13:CM:71:ARG:CB	2.31	0.43
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.51	0.43
20:CT:51:GLU:HA	20:CT:54:LYS:HZ2	1.81	0.43
22:CY:12:U:N3	22:CY:26:G:N1	2.66	0.43
27:D2:44:LEU:O	27:D2:45:SER:HB3	2.18	0.43
27:D2:63:VAL:C	27:D2:65:ASN:N	2.74	0.43
35:DA:1339:G:H5"	55:DX:16:LYS:HD3	1.99	0.43
35:DA:1516:C:O2'	35:DA:1517:G:H5'	2.18	0.43
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.17	0.43
35:DA:1917:U:O2'	35:DA:1918:A:H5'	2.18	0.43
35:DA:2700:C:O2'	35:DA:2701:C:H5'	2.18	0.43
39:DE:76:ARG:O	39:DE:77:ILE:C	2.61	0.43
41:DG:46:ALA:HB3	41:DG:82:LEU:HD21	2.00	0.43
41:DG:60:LEU:O	41:DG:64:THR:CG2	2.66	0.43
41:DG:100:TRP:O	41:DG:101:ILE:C	2.61	0.43
41:DG:160:VAL:CG1	41:DG:161:THR:N	2.80	0.43
43:DI:5:LEU:O	43:DI:6:LEU:HD23	2.18	0.43
43:DI:85:GLU:O	43:DI:123:LEU:HD13	2.18	0.43
47:DP:83:VAL:HG11	47:DP:112:LEU:HD21	2.00	0.43
48:DQ:52:VAL:O	48:DQ:55:VAL:HG22	2.18	0.43
52:DU:79:PHE:O	52:DU:83:LEU:HD22	2.17	0.43
52:DU:111:GLU:C	52:DU:113:ALA:N	2.75	0.43
53:DV:91:TYR:N	53:DV:91:TYR:CD1	2.85	0.43
57:DZ:81:ARG:HH11	57:DZ:81:ARG:HB2	1.82	0.43
57:DZ:166:SER:HB2	57:DZ:167:PRO:CA	2.47	0.43
1:AA:61:G:H2'	1:AA:62:U:O4'	2.18	0.43
1:AA:189(C):C:O2'	1:AA:189(D):C:H5'	2.18	0.43
1:AA:397:A:H5'	1:AA:398:C:OP1	2.18	0.43
1:AA:423:G:C2'	1:AA:424:G:H5'	2.48	0.43
1:AA:457:C:N4	1:AA:475:G:H1	2.16	0.43
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.53	0.43
2:AB:32:ILE:CD1	2:AB:40:HIS:HB3	2.48	0.43
4:AD:209:ARG:HG3	4:AD:209:ARG:NH1	2.32	0.43
8:AH:56:LYS:CB	8:AH:58:TYR:HE1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:93:GLN:CD	11:AK:93:GLN:C	2.86	0.43
12:AL:24:VAL:HG12	12:AL:26:ALA:HB2	2.00	0.43
13:AM:86:CYS:SG	13:AM:88:ARG:HG3	2.58	0.43
18:AR:44:LEU:HD22	18:AR:79:LEU:HD22	2.00	0.43
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.31	0.43
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	2.01	0.43
20:AT:49:ALA:O	20:AT:52:ALA:HB3	2.18	0.43
20:AT:96:GLY:O	20:AT:97:ALA:O	2.35	0.43
22:AV:1:G:C6	22:AV:75:A:C6	3.06	0.43
22:AV:12:U:N3	22:AV:13:U:C6	2.86	0.43
22:AY:67:C:H2'	22:AY:68:A:H5'	2.00	0.43
22:AY:70:G:C6	22:AY:71:G:C5	3.06	0.43
28:B3:10:LYS:HD3	28:B3:53:LEU:HD23	1.99	0.43
29:B4:55:ARG:HG3	29:B4:55:ARG:H	1.62	0.43
30:B5:40:LYS:HZ2	30:B5:46:CYS:H	1.66	0.43
35:BA:1173:G:H2'	35:BA:1175:U:C5	2.53	0.43
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.53	0.43
35:BA:2312:U:H4'	41:BG:71:THR:CG2	2.47	0.43
35:BA:2591:C:OP2	38:BD:239:ARG:HB3	2.18	0.43
35:BA:2720:U:H3'	35:BA:2721:A:H8	1.83	0.43
37:BC:30:VAL:CG1	37:BC:42:VAL:HG22	2.44	0.43
39:BE:7:VAL:O	39:BE:8:LYS:C	2.60	0.43
39:BE:44:TYR:O	39:BE:45:THR:CB	2.64	0.43
39:BE:52:LEU:HA	39:BE:52:LEU:HD12	1.84	0.43
39:BE:81:ILE:O	39:BE:82:ARG:O	2.36	0.43
40:BF:164:ARG:HG2	40:BF:164:ARG:NH1	2.32	0.43
41:BG:39:ILE:CG1	41:BG:92:VAL:HG12	2.47	0.43
41:BG:63:ILE:CG1	41:BG:64:THR:N	2.81	0.43
41:BG:115:ARG:HD3	41:BG:137:GLU:OE2	2.17	0.43
42:BH:30:LYS:HE3	42:BH:81:GLU:H	1.83	0.43
43:BI:107:VAL:O	43:BI:109:ILE:CD1	2.66	0.43
44:BJ:76:UNK:O	44:BJ:114:UNK:CB	2.66	0.43
47:BP:78:PRO:HB2	47:BP:111:ARG:HD2	2.00	0.43
47:BP:100:LEU:O	47:BP:101:VAL:C	2.61	0.43
48:BQ:32:TYR:CZ	48:BQ:111:GLU:HG3	2.53	0.43
48:BQ:134:ARG:NH2	57:BZ:122:ARG:HE	2.16	0.43
49:BR:72:ASP:O	49:BR:76:VAL:HB	2.19	0.43
50:BS:16:ASN:O	50:BS:19:LYS:CB	2.66	0.43
50:BS:54:LEU:C	50:BS:57:LYS:H	2.26	0.43
50:BS:87:PHE:CG	50:BS:88:ASP:N	2.86	0.43
50:BS:89:ARG:CG	50:BS:92:TYR:HA	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:100:TYR:C	51:BT:102:ILE:H	2.27	0.43
56:BY:10:GLY:CA	56:BY:27:VAL:HG13	2.39	0.43
57:BZ:150:LEU:C	57:BZ:151:HIS:CD2	2.96	0.43
1:CA:155:C:H2'	1:CA:156:G:H8	1.76	0.43
1:CA:217:C:O2'	1:CA:470:C:N4	2.52	0.43
1:CA:538:G:O2'	1:CA:539:A:H5'	2.17	0.43
1:CA:662:G:H2'	1:CA:663:A:H8	1.83	0.43
1:CA:797:C:O2'	1:CA:798:G:H5'	2.17	0.43
1:CA:887:G:C2'	1:CA:888:G:H5'	2.48	0.43
1:CA:955:U:O2'	1:CA:956:U:H5'	2.19	0.43
1:CA:960:U:O2	1:CA:960:U:H2'	2.17	0.43
1:CA:1056:U:H4'	3:CC:163:ALA:CB	2.47	0.43
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.33	0.43
1:CA:1374:A:O4'	7:CG:31:MET:HE1	2.18	0.43
1:CA:1388:C:H2'	1:CA:1389:C:O4'	2.17	0.43
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.17	0.43
2:CB:230:VAL:HG23	2:CB:231:GLU:N	2.32	0.43
4:CD:11:LEU:O	4:CD:12:CYS:C	2.62	0.43
4:CD:56:VAL:HG12	4:CD:202:LEU:HD13	1.99	0.43
6:CF:40:VAL:O	6:CF:40:VAL:HG22	2.18	0.43
8:CH:4:ASP:HB2	8:CH:89:PRO:CG	2.42	0.43
8:CH:56:LYS:CB	8:CH:58:TYR:HE1	2.32	0.43
8:CH:117:GLY:O	8:CH:119:LEU:HG	2.18	0.43
9:CI:126:SER:O	9:CI:127:LYS:HB3	2.18	0.43
10:CJ:44:VAL:HG12	10:CJ:45:ARG:N	2.34	0.43
10:CJ:46:ARG:HH11	10:CJ:46:ARG:HG2	1.83	0.43
11:CK:111:ASP:HA	18:CR:84:LYS:HE2	2.00	0.43
12:CL:73:GLU:O	12:CL:110:VAL:HG13	2.19	0.43
12:CL:101:VAL:O	12:CL:104:VAL:HG23	2.18	0.43
14:CN:34:TYR:C	14:CN:36:PHE:N	2.76	0.43
15:CO:64:ARG:HG3	15:CO:64:ARG:NH1	2.31	0.43
18:CR:44:LEU:HD22	18:CR:79:LEU:HD22	2.00	0.43
19:CS:40:ILE:HG21	19:CS:62:ILE:CD1	2.48	0.43
22:CV:27:C:C6	22:CV:27:C:C3'	3.02	0.43
23:CW:13:U:C2'	23:CW:14:A:H5"	2.47	0.43
23:CW:25:A:C6	23:CW:26:G:C6	3.06	0.43
22:CY:19:G:C8	57:DZ:187:ALA:N	2.69	0.43
22:CY:19:G:C4	22:CY:59:G:N2	2.86	0.43
31:D6:44:ARG:HB2	31:D6:44:ARG:NH1	2.33	0.43
32:D7:1:MET:N	35:DA:1619:G:O2'	2.50	0.43
35:DA:141:A:H8	35:DA:1408:C:O2'	1.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:614:U:O2	35:DA:614:U:O4’	2.34	0.43
35:DA:821:A:H2’	35:DA:946:G:H5”	2.00	0.43
35:DA:889:C:O2’	35:DA:890:A:O5’	2.26	0.43
35:DA:1039:G:C6	35:DA:1040:C:N4	2.86	0.43
35:DA:1244:G:H4’	47:DP:11:GLY:HA2	2.00	0.43
35:DA:1614:A:C6	54:DW:91:GLY:HA2	2.53	0.43
35:DA:2126:A:H61	35:DA:2163:C:H4’	1.83	0.43
37:DC:29:LEU:HD22	37:DC:33:LEU:CD1	2.49	0.43
38:DD:177:LEU:HD12	38:DD:181:GLU:HB3	2.00	0.43
39:DE:35:GLN:HB3	39:DE:48:GLN:HB3	2.00	0.43
39:DE:38:THR:OG1	39:DE:41:LYS:HG2	2.18	0.43
43:DI:100:ALA:HA	43:DI:103:ARG:CD	2.40	0.43
47:DP:92:GLU:HG3	47:DP:93:GLY:N	2.25	0.43
48:DQ:35:VAL:HG23	48:DQ:101:ARG:O	2.18	0.43
50:DS:74:ALA:HB1	50:DS:103:GLU:HB3	1.99	0.43
51:DT:40:THR:O	51:DT:41:ARG:CB	2.65	0.43
51:DT:128:GLU:CD	51:DT:128:GLU:C	2.86	0.43
53:DV:38:LEU:C	53:DV:38:LEU:HD23	2.42	0.43
54:DW:92:ARG:O	54:DW:93:ALA:O	2.35	0.43
1:AA:158:G:H2’	1:AA:159:G:C8	2.53	0.43
1:AA:428:G:C6	1:AA:430:A:N6	2.87	0.43
1:AA:730:G:C5	1:AA:731:G:H1’	2.54	0.43
1:AA:892:A:H2’	1:AA:893:C:C6	2.53	0.43
1:AA:1015:A:H2’	1:AA:1016:A:O4’	2.18	0.43
1:AA:1107:C:C2’	1:AA:1108:G:H5”	2.48	0.43
1:AA:1113:C:H2’	1:AA:1114:C:C6	2.53	0.43
1:AA:1126:U:O2’	1:AA:1127:G:H5’	2.18	0.43
2:AB:163:PHE:HA	2:AB:185:ILE:O	2.18	0.43
3:AC:76:VAL:CG2	3:AC:77:ILE:N	2.75	0.43
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.18	0.43
4:AD:43:HIS:C	4:AD:45:GLN:N	2.76	0.43
4:AD:58:LEU:HD23	4:AD:62:GLN:HG2	2.01	0.43
5:AE:6:PHE:HD1	5:AE:63:ARG:HH12	1.64	0.43
5:AE:64:ARG:HG3	5:AE:64:ARG:NH1	2.30	0.43
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.53	0.43
13:AM:19:LEU:O	13:AM:22:ILE:HD13	2.18	0.43
16:AP:16:HIS:O	16:AP:17:TYR:C	2.61	0.43
20:AT:75:ASN:ND2	20:AT:75:ASN:H	2.15	0.43
23:AW:9:A:C4	23:AW:47:G:N3	2.86	0.43
23:AW:23:A:C2	23:AW:50:C:C2	3.06	0.43
23:AW:55:G:O2’	23:AW:56:U:H5’	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AY:9:A:C6	22:AY:47:G:C5	3.06	0.43
22:AY:28:G:N1	22:AY:29:A:C6	2.86	0.43
26:B1:88:LYS:HD3	26:B1:88:LYS:C	2.43	0.43
33:B8:30:ARG:NH1	35:BA:2419:U:O4	2.52	0.43
35:BA:544:G:N2	35:BA:547:A:H5'	2.33	0.43
35:BA:588:U:O5'	35:BA:588:U:H6	2.00	0.43
35:BA:1142(A):A:C8	35:BA:1142(A):A:H5'	2.53	0.43
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.53	0.43
35:BA:1363:C:O2'	35:BA:1364:G:H5'	2.18	0.43
35:BA:1614:A:C6	54:BW:91:GLY:HA2	2.54	0.43
35:BA:1779:U:H5	35:BA:1784:A:C8	2.35	0.43
35:BA:2126:A:H61	35:BA:2163:C:H4'	1.83	0.43
35:BA:2428:G:H5"	35:BA:2429:G:O5'	2.17	0.43
35:BA:2513:G:H2'	35:BA:2514:U:C6	2.53	0.43
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.84	0.43
36:BB:52:A:O2'	36:BB:53:A:H8	1.99	0.43
40:BF:28:ILE:H	40:BF:28:ILE:CD1	2.32	0.43
42:BH:89:ILE:HD12	42:BH:89:ILE:O	2.18	0.43
46:BO:14:THR:HG21	46:BO:86:ILE:HB	1.99	0.43
46:BO:26:LYS:HB3	46:BO:27:GLY:H	1.68	0.43
46:BO:104:ARG:HE	51:BT:33:LYS:HE2	1.82	0.43
47:BP:9:ASN:O	47:BP:11:GLY:N	2.51	0.43
49:BR:30:THR:O	49:BR:30:THR:HG22	2.18	0.43
49:BR:103:ARG:HH11	49:BR:110:PRO:HD3	1.83	0.43
51:BT:28:VAL:HG12	51:BT:29:ARG:HD3	2.00	0.43
51:BT:56:GLY:C	51:BT:57:PHE:O	2.61	0.43
52:BU:65:ILE:HD11	52:BU:93:LYS:HA	2.00	0.43
56:BY:44:ILE:O	56:BY:45:VAL:C	2.60	0.43
56:BY:52:SER:O	56:BY:54:LYS:N	2.50	0.43
56:BY:89:PHE:O	56:BY:90:LEU:HB3	2.18	0.43
57:BZ:63:ASP:OD1	57:BZ:63:ASP:C	2.62	0.43
1:CA:59:A:H1'	1:CA:354:G:N2	2.32	0.43
1:CA:123:C:OP1	1:CA:311:C:O2'	2.36	0.43
1:CA:428:G:C6	1:CA:430:A:N6	2.86	0.43
1:CA:433:C:O2'	1:CA:434:U:H5'	2.19	0.43
1:CA:532:A:H2	1:CA:1207:G:O4'	2.02	0.43
1:CA:975:A:N1	10:CJ:48:THR:HB	2.33	0.43
1:CA:1003:G:N2	1:CA:1038:C:N4	2.67	0.43
1:CA:1227:A:OP2	13:CM:111:LYS:HE3	2.18	0.43
1:CA:1264:C:H1'	1:CA:1272:G:H22	1.83	0.43
1:CA:1421:G:O2'	1:CA:1422:G:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1479:C:O2'	1:CA:1480:G:H5'	2.18	0.43
1:CA:1523:G:C5	1:CA:1524:C:C5	3.06	0.43
3:CC:40:ARG:HG2	3:CC:55:VAL:HB	2.00	0.43
4:CD:32:ALA:CA	4:CD:35:ARG:HG3	2.48	0.43
4:CD:129:ASN:H	4:CD:129:ASN:ND2	2.15	0.43
4:CD:134:ASP:OD1	4:CD:134:ASP:N	2.51	0.43
4:CD:196:LEU:HD12	4:CD:196:LEU:N	2.31	0.43
5:CE:141:GLN:HA	5:CE:143:ARG:HH21	1.83	0.43
7:CG:5:ARG:N	7:CG:5:ARG:HD2	2.34	0.43
8:CH:91:ARG:CG	8:CH:91:ARG:NH1	2.80	0.43
12:CL:28:LYS:O	12:CL:29:GLY:C	2.61	0.43
12:CL:68:ALA:CB	12:CL:85:ILE:HD11	2.47	0.43
17:CQ:37:LYS:HB2	17:CQ:37:LYS:HE3	1.76	0.43
17:CQ:75:ARG:HG3	17:CQ:75:ARG:HH11	1.83	0.43
18:CR:40:LEU:C	18:CR:42:ARG:N	2.75	0.43
18:CR:50:ILE:HD12	18:CR:70:ILE:HD12	1.99	0.43
22:CV:12:U:N3	22:CV:26:G:C2	2.87	0.43
27:D2:47:ASN:O	27:D2:48:HIS:C	2.61	0.43
28:D3:17:LYS:HE2	35:DA:969:U:OP2	2.17	0.43
33:D8:13:ARG:NH2	35:DA:250:G:OP2	2.52	0.43
35:DA:139(A):G:N2	55:DX:44:GLU:OE1	2.39	0.43
35:DA:1173:G:H2'	35:DA:1175:U:C5	2.53	0.43
35:DA:1702:G:H2'	35:DA:1703:G:O5'	2.18	0.43
35:DA:1721:G:H8	35:DA:1741:A:H62	1.65	0.43
35:DA:2133:G:H2'	35:DA:2157:G:N2	2.33	0.43
35:DA:2394:C:OP1	47:DP:63:PRO:CD	2.60	0.43
37:DC:34:ALA:HB2	37:DC:217:THR:HG21	1.99	0.43
38:DD:64:ILE:HG23	38:DD:64:ILE:O	2.18	0.43
38:DD:108:PRO:HG2	38:DD:111:LEU:HD23	2.00	0.43
39:DE:59:VAL:HG13	39:DE:60:ASN:H	1.83	0.43
39:DE:91:VAL:CG1	39:DE:95:ILE:HG13	2.47	0.43
41:DG:33:ARG:C	41:DG:34:LEU:HD12	2.43	0.43
42:DH:11:VAL:HA	42:DH:12:PRO:HD3	1.80	0.43
43:DI:62:LYS:HA	43:DI:65:ALA:HB3	2.01	0.43
45:DN:23:LEU:CD1	45:DN:98:VAL:HG12	2.48	0.43
45:DN:40:PRO:HB3	52:DU:68:ALA:HB2	2.00	0.43
46:DO:18:LYS:HD2	46:DO:45:GLU:CD	2.43	0.43
48:DQ:43:THR:OG1	48:DQ:45:GLN:HG2	2.18	0.43
51:DT:19:LEU:HD22	51:DT:85:LYS:HD3	2.01	0.43
51:DT:48:ILE:O	51:DT:63:VAL:HA	2.18	0.43
51:DT:127:ALA:C	51:DT:129:ARG:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:101:ARG:C	52:DU:102:GLU:CG	2.88	0.43
57:DZ:153:SER:C	57:DZ:155:LEU:H	2.26	0.43
1:AA:109:A:C6	1:AA:326:G:C6	3.06	0.43
1:AA:127:G:HO2'	17:AQ:2:PRO:N	2.17	0.43
1:AA:373:A:C2	1:AA:482:A:C6	3.07	0.43
1:AA:472:A:H4'	16:AP:80:PHE:O	2.18	0.43
1:AA:527:G:O2'	1:AA:528:C:H5'	2.19	0.43
1:AA:788:U:H2'	1:AA:789:U:O4'	2.18	0.43
1:AA:880:C:H2'	1:AA:881:G:C8	2.48	0.43
1:AA:954:G:C2	1:AA:955:U:C2	3.06	0.43
1:AA:1503:A:O2'	1:AA:1504:G:O5'	2.36	0.43
2:AB:114:ARG:HD2	2:AB:118:LEU:HD11	2.01	0.43
3:AC:101:LEU:HD23	3:AC:101:LEU:C	2.43	0.43
6:AF:47:ARG:HH11	6:AF:47:ARG:HG2	1.83	0.43
7:AG:66:VAL:O	7:AG:66:VAL:HG12	2.17	0.43
8:AH:19:VAL:HG23	8:AH:21:LYS:HB2	2.01	0.43
10:AJ:4:ILE:CD1	10:AJ:77:PRO:HB3	2.48	0.43
11:AK:74:ALA:O	11:AK:76:GLY:N	2.50	0.43
12:AL:39:VAL:HG12	12:AL:41:ARG:N	2.33	0.43
17:AQ:66:SER:C	17:AQ:67:LYS:O	2.61	0.43
18:AR:40:LEU:C	18:AR:42:ARG:N	2.75	0.43
22:AV:51:G:C4	22:AV:52:C:C5	3.06	0.43
23:AW:42:C:H2'	23:AW:43:G:C4'	2.48	0.43
23:AW:76:C:O2'	23:AW:77:C:H5'	2.18	0.43
26:B1:93:GLU:O	26:B1:95:LEU:N	2.51	0.43
30:B5:3:LYS:HE3	35:BA:2015:A:H2	1.84	0.43
34:B9:30:PRO:HB2	35:BA:2527:C:H4'	1.99	0.43
35:BA:272(D):G:H1	35:BA:364:C:N4	2.17	0.43
35:BA:547:A:H1'	35:BA:548:A:C8	2.52	0.43
35:BA:941:A:H4'	47:BP:35:HIS:CE1	2.53	0.43
35:BA:1412:A:H2'	35:BA:1413:G:C8	2.53	0.43
35:BA:1529:G:O2'	35:BA:1530:C:H5'	2.18	0.43
35:BA:1945:G:H2'	35:BA:1946:U:C6	2.54	0.43
35:BA:2103:C:H2'	35:BA:2104:G:O4'	2.18	0.43
35:BA:2389:G:H5"	35:BA:2390:U:O4'	2.18	0.43
38:BD:133:LEU:HB3	38:BD:173:VAL:HG11	1.99	0.43
39:BE:152:LYS:HE3	45:BN:77:GLY:HA3	2.01	0.43
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.19	0.43
40:BF:21:ALA:O	40:BF:23:ASP:N	2.51	0.43
40:BF:181:LEU:HD11	40:BF:186:ILE:HD11	2.01	0.43
44:BJ:124:UNK:O	44:BJ:125:UNK:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:76:ALA:HB3	51:BT:75:ILE:HD12	2.00	0.43
46:BO:114:ILE:N	46:BO:114:ILE:CD1	2.81	0.43
47:BP:7:ARG:N	47:BP:8:PRO:HD2	2.33	0.43
47:BP:64:LYS:O	47:BP:64:LYS:HG2	2.18	0.43
47:BP:84:ASN:N	47:BP:84:ASN:HD22	2.14	0.43
48:BQ:21:THR:C	48:BQ:23:GLY:H	2.26	0.43
48:BQ:42:ILE:HD12	48:BQ:42:ILE:N	2.34	0.43
52:BU:88:ILE:O	52:BU:90:VAL:N	2.37	0.43
52:BU:90:VAL:HG21	53:BV:39:LEU:HB3	2.00	0.43
56:BY:87:LYS:O	56:BY:88:LYS:HB2	2.18	0.43
57:BZ:80:ARG:O	57:BZ:81:ARG:C	2.61	0.43
57:BZ:149:SER:OG	57:BZ:150:LEU:N	2.51	0.43
1:CA:18:C:H4'	1:CA:1078:U:O2	2.19	0.43
1:CA:606:G:H2'	1:CA:631:G:C2	2.53	0.43
1:CA:656:C:O2'	1:CA:657:G:H5'	2.17	0.43
1:CA:709:G:O2'	1:CA:710:G:H5'	2.18	0.43
1:CA:763:G:O2'	1:CA:764:C:H5'	2.18	0.43
1:CA:829:G:O2'	1:CA:830:G:H5'	2.18	0.43
1:CA:1492:A:H2	24:CX:20:U:O2'	2.01	0.43
2:CB:39:ILE:HG22	2:CB:40:HIS:N	2.34	0.43
2:CB:74:LYS:HD2	2:CB:166:ASP:CB	2.49	0.43
2:CB:213:LEU:HD23	2:CB:213:LEU:C	2.42	0.43
3:CC:74:GLY:C	3:CC:76:VAL:H	2.26	0.43
4:CD:88:VAL:HG13	5:CE:97:GLY:HA2	1.99	0.43
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.53	0.43
11:CK:96:ARG:HA	11:CK:99:GLN:OE1	2.18	0.43
12:CL:37:CYS:HA	12:CL:58:VAL:CG2	2.47	0.43
22:CV:26:G:C4	22:CV:27:C:N3	2.86	0.43
23:CW:5:C:H1'	23:CW:72:C:O2	2.18	0.43
22:CY:5:C:C2	22:CY:71:G:N1	2.86	0.43
22:CY:43:G:C2'	22:CY:44:A:H5'	2.48	0.43
25:D0:36:ILE:C	25:D0:36:ILE:HD12	2.43	0.43
25:D0:50:ASN:HB2	25:D0:81:VAL:HB	2.00	0.43
26:D1:11:ARG:HB3	26:D1:11:ARG:HH11	1.83	0.43
27:D2:31:GLU:CB	27:D2:53:LEU:HD11	2.48	0.43
32:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.54	0.43
32:D7:10:ARG:HH12	35:DA:1378:A:H5"	1.83	0.43
33:D8:30:ARG:NH1	35:DA:2419:U:O4	2.51	0.43
33:D8:39:LYS:O	33:D8:43:GLN:HG3	2.17	0.43
35:DA:528:A:C2	35:DA:2043:C:C5'	3.02	0.43
35:DA:533:G:H5'	52:DU:24:TYR:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:654(I):C:H5'	35:DA:654(J):A:OP1	2.19	0.43
35:DA:1047:G:C8	35:DA:1110:G:N1	2.86	0.43
35:DA:1363:C:O2'	35:DA:1364:G:H5'	2.18	0.43
35:DA:1485:G:H1'	35:DA:1505:C:N4	2.27	0.43
35:DA:1711:C:H2'	35:DA:1712:C:C6	2.52	0.43
35:DA:1790:C:O2'	38:DD:209:ALA:HB2	2.18	0.43
37:DC:184:GLU:C	37:DC:185:LYS:HE3	2.43	0.43
38:DD:11:PRO:C	38:DD:13:ARG:N	2.75	0.43
41:DG:34:LEU:HD11	41:DG:172:LEU:HD11	1.99	0.43
41:DG:73:ALA:H	41:DG:87:PRO:HG3	1.83	0.43
42:DH:52:VAL:O	42:DH:65:HIS:HE1	2.02	0.43
42:DH:158:HIS:CE1	42:DH:168:PRO:HB2	2.54	0.43
43:DI:103:ARG:O	43:DI:104:GLN:C	2.61	0.43
43:DI:114:LEU:HD23	43:DI:130:TYR:CE1	2.53	0.43
43:DI:129:THR:HG22	43:DI:130:TYR:N	2.32	0.43
47:DP:83:VAL:O	47:DP:83:VAL:HG13	2.18	0.43
50:DS:56:LEU:O	50:DS:57:LYS:HB2	2.18	0.43
50:DS:95:HIS:O	50:DS:96:GLY:C	2.61	0.43
51:DT:87:ASP:OD1	51:DT:87:ASP:C	2.61	0.43
51:DT:122:ASP:C	51:DT:124:ASP:N	2.77	0.43
54:DW:47:VAL:CA	54:DW:50:VAL:HG12	2.48	0.43
56:DY:76:CYS:O	56:DY:77:PRO:C	2.61	0.43
57:DZ:12:GLY:C	57:DZ:13:GLU:CD	2.86	0.43
57:DZ:30:ASN:HB3	57:DZ:90:VAL:HB	1.99	0.43
1:AA:448:A:O2'	1:AA:449:C:H5'	2.18	0.43
1:AA:640:A:C2'	1:AA:641:U:H5'	2.48	0.43
1:AA:799:G:O6	1:AA:800:G:C2	2.72	0.43
1:AA:894:G:H2'	1:AA:895:G:C8	2.53	0.43
1:AA:975:A:H5'	1:AA:975:A:C8	2.54	0.43
1:AA:1170:A:H2'	1:AA:1171:G:O4'	2.19	0.43
1:AA:1187:G:OP1	9:AI:113:LYS:HE2	2.18	0.43
1:AA:1424:C:O2'	1:AA:1425:U:H5'	2.18	0.43
4:AD:32:ALA:CA	4:AD:35:ARG:HG3	2.48	0.43
4:AD:71:SER:O	4:AD:72:GLU:C	2.62	0.43
5:AE:20:GLN:C	5:AE:20:GLN:CD	2.86	0.43
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.33	0.43
9:AI:28:VAL:O	9:AI:29:ASN:C	2.62	0.43
10:AJ:13:HIS:CE1	10:AJ:14:LYS:HG3	2.53	0.43
10:AJ:28:ARG:HH11	10:AJ:28:ARG:HG2	1.82	0.43
16:AP:18:ARG:O	16:AP:19:ILE:C	2.61	0.43
23:AW:20:G:N2	23:AW:58:C:H2'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:20:G:C4	23:AW:59:G:C2	3.07	0.43
23:AW:49:G:OP1	23:AW:49:G:C8	2.65	0.43
22:AY:4:C:N1	22:AY:5:C:C5	2.86	0.43
22:AY:27:C:C2'	22:AY:28:G:H8	2.32	0.43
22:AY:31:C:N4	22:AY:43:G:H1	2.16	0.43
25:B0:20:ARG:HD3	35:BA:2356:C:O3'	2.19	0.43
26:B1:39:LYS:HE3	35:BA:189:G:P	2.59	0.43
27:B2:7:ARG:NH1	35:BA:102:G:OP2	2.51	0.43
35:BA:394:A:C2'	35:BA:395:U:H5'	2.49	0.43
35:BA:404:C:C3'	35:BA:405:U:H5'	2.48	0.43
35:BA:579:G:H2'	35:BA:580:C:C6	2.53	0.43
35:BA:985:C:H2'	35:BA:986:C:H6	1.84	0.43
35:BA:1007:C:OP1	45:BN:35:ARG:NH1	2.51	0.43
35:BA:1244:G:H4'	47:BP:11:GLY:HA2	2.00	0.43
35:BA:1705:G:O2'	35:BA:1706:U:H5'	2.18	0.43
35:BA:1711:C:H2'	35:BA:1712:C:C6	2.52	0.43
35:BA:2672:G:H2'	35:BA:2673:G:H5"	1.99	0.43
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.18	0.43
35:BA:2796:U:H3'	35:BA:2799:C:H5'	1.99	0.43
36:BB:92:C:O2'	36:BB:93:G:H5'	2.19	0.43
36:BB:111:G:H2'	36:BB:112:U:H5'	2.01	0.43
40:BF:83:PHE:O	40:BF:84:VAL:CB	2.50	0.43
40:BF:135:LYS:O	40:BF:136:THR:C	2.60	0.43
42:BH:11:VAL:HA	42:BH:12:PRO:HD3	1.78	0.43
43:BI:62:LYS:NZ	43:BI:133:HIS:HB2	2.33	0.43
45:BN:125:GLY:HA3	45:BN:126:PRO:C	2.39	0.43
48:BQ:114:ALA:C	48:BQ:116:GLU:N	2.74	0.43
49:BR:9:LYS:C	49:BR:10:LEU:HG	2.43	0.43
49:BR:97:VAL:HG12	49:BR:114:VAL:HG22	1.99	0.43
1:CA:148:G:C2	1:CA:149:A:N7	2.86	0.43
1:CA:266:G:H5"	1:CA:268:C:N4	2.21	0.43
1:CA:582:U:C2	1:CA:760:G:C6	3.06	0.43
1:CA:668:G:O2'	15:CO:46:HIS:CD2	2.71	0.43
1:CA:815:A:N7	1:CA:1509:C:O2'	2.45	0.43
1:CA:1027:C:H2'	1:CA:1028:C:C5	2.52	0.43
2:CB:114:ARG:HD3	2:CB:118:LEU:HG	2.01	0.43
2:CB:134:GLU:O	2:CB:138:LEU:HB2	2.18	0.43
2:CB:211:ILE:O	2:CB:215:LEU:HD23	2.19	0.43
2:CB:224:GLN:C	2:CB:226:ARG:N	2.74	0.43
3:CC:34:LEU:HD22	3:CC:38:ARG:CZ	2.49	0.43
3:CC:188:LEU:N	3:CC:188:LEU:HD22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:20:ASP:C	7:CG:22:LEU:N	2.76	0.43
7:CG:132:GLY:C	7:CG:134:ALA:N	2.74	0.43
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.82	0.43
9:CI:118:LYS:NZ	9:CI:118:LYS:CB	2.81	0.43
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.33	0.43
14:CN:29:ARG:NH1	14:CN:31:ARG:HB2	2.34	0.43
15:CO:51:HIS:O	15:CO:54:ARG:HB3	2.16	0.43
17:CQ:59:ILE:HG22	17:CQ:60:ILE:N	2.34	0.43
22:CV:43:G:N1	22:CV:44:A:C4	2.86	0.43
23:CW:9:A:C6	23:CW:47:G:C6	3.06	0.43
23:CW:23:A:H61	23:CW:48:G:H2'	1.83	0.43
23:CW:49:G:H3'	23:CW:50:C:C5'	2.44	0.43
23:CW:53:U:C2	23:CW:66:G:N1	2.87	0.43
22:CY:25:A:C2'	22:CY:26:G:C8	2.88	0.43
22:CY:27:C:C2'	22:CY:28:G:H8	2.29	0.43
35:DA:15:G:O2'	35:DA:16:G:H5'	2.18	0.43
35:DA:874:G:H5"	57:DZ:175:VAL:CG1	2.46	0.43
35:DA:1053:C:O2	35:DA:1053:C:C2'	2.67	0.43
35:DA:2124:G:O3'	37:DC:41:THR:HG21	2.19	0.43
35:DA:2346:A:H5'	35:DA:2383:G:C1'	2.47	0.43
35:DA:2472:G:C3'	35:DA:2475:C:H42	2.32	0.43
35:DA:2741:A:H2'	35:DA:2742:C:O4'	2.19	0.43
35:DA:2877:G:O2'	35:DA:2878:U:H5'	2.17	0.43
36:DB:73:A:H2'	36:DB:74:U:H5'	2.01	0.43
38:DD:89:SER:O	38:DD:159:ALA:HB2	2.18	0.43
38:DD:126:GLN:O	38:DD:127:VAL:C	2.62	0.43
39:DE:176:ILE:HG22	39:DE:178:GLU:HB3	2.01	0.43
41:DG:172:LEU:HD23	41:DG:173:LEU:N	2.33	0.43
42:DH:70:THR:HG23	42:DH:74:ASN:ND2	2.34	0.43
42:DH:157:TYR:HE1	42:DH:171:LEU:N	2.16	0.43
43:DI:15:VAL:C	43:DI:17:GLN:H	2.26	0.43
43:DI:81:VAL:HG21	43:DI:88:ILE:HD13	2.01	0.43
45:DN:1:MET:H1	53:DV:20:LEU:HD22	1.83	0.43
47:DP:7:ARG:HB3	47:DP:7:ARG:CZ	2.47	0.43
48:DQ:21:THR:HG22	48:DQ:21:THR:O	2.17	0.43
53:DV:66:ARG:HG2	53:DV:66:ARG:NH1	2.33	0.43
54:DW:2:GLU:HA	54:DW:64:MET:HE1	2.00	0.43
55:DX:34:ALA:HB1	55:DX:39:ILE:HD11	2.00	0.43
56:DY:88:LYS:NZ	56:DY:93:GLY:HA3	2.33	0.43
57:DZ:14:LYS:HA	57:DZ:15:PRO:HD2	1.92	0.43
1:AA:39:G:O2'	1:AA:40:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:266:G:H5'	1:AA:266:G:C8	2.53	0.43
1:AA:599:C:H4'	8:AH:130:GLY:C	2.44	0.43
1:AA:656:C:O2'	1:AA:657:G:H5'	2.18	0.43
1:AA:715:A:H2'	1:AA:716:A:C8	2.54	0.43
1:AA:1149:C:OP1	9:AI:9:ARG:HD3	2.18	0.43
1:AA:1288:A:H2	1:AA:1352:C:O2	2.01	0.43
2:AB:121:LEU:C	2:AB:123:ALA:H	2.27	0.43
2:AB:173:ALA:O	2:AB:174:VAL:C	2.61	0.43
4:AD:170:VAL:HG12	4:AD:171:GLY:N	2.33	0.43
6:AF:12:PRO:O	6:AF:13:ASN:CG	2.61	0.43
6:AF:14:LEU:HB2	6:AF:19:LEU:HB2	2.00	0.43
7:AG:5:ARG:N	7:AG:5:ARG:HD2	2.34	0.43
13:AM:5:ALA:CB	13:AM:66:LEU:HD13	2.44	0.43
21:AU:25:LYS:CG	21:AU:26:LYS:N	2.82	0.43
23:AW:49:G:H3'	23:AW:50:C:C5'	2.46	0.43
25:B0:49:LYS:O	25:B0:50:ASN:HB2	2.19	0.43
27:B2:63:VAL:HA	27:B2:66:GLU:OE2	2.19	0.43
28:B3:1:MET:C	28:B3:3:ARG:N	2.76	0.43
28:B3:7:LYS:HE2	28:B3:32:GLN:OE1	2.19	0.43
29:B4:1:MET:HG3	41:BG:66:GLN:CG	2.42	0.43
29:B4:36:CYS:HA	41:BG:112:PRO:HB2	2.01	0.43
30:B5:54:GLY:O	30:B5:55:ARG:NE	2.52	0.43
35:BA:92:A:O2'	35:BA:93:G:H5'	2.19	0.43
35:BA:470:A:H2'	35:BA:471:A:O4'	2.18	0.43
35:BA:1116:C:OP2	35:BA:1116:C:H6	2.01	0.43
35:BA:1122:G:O2'	35:BA:1123:C:H5'	2.19	0.43
35:BA:2175:C:H1'	37:BC:218:THR:O	2.18	0.43
35:BA:2364:C:H2'	35:BA:2365:G:O4'	2.19	0.43
35:BA:2472:G:C3'	35:BA:2475:C:H42	2.30	0.43
35:BA:2584:U:O2	35:BA:2584:U:O5'	2.36	0.43
35:BA:2700:C:O2'	35:BA:2701:C:H5'	2.18	0.43
35:BA:2729:G:H2'	35:BA:2730:C:H6	1.82	0.43
35:BA:2732:G:C2'	35:BA:2733:A:H5'	2.49	0.43
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.18	0.43
37:BC:182:PRO:HA	37:BC:183:PRO:HD3	1.90	0.43
38:BD:62:TYR:HA	38:BD:87:ASN:ND2	2.34	0.43
38:BD:110:GLY:O	38:BD:111:LEU:C	2.60	0.43
39:BE:51:PHE:HD1	39:BE:52:LEU:N	2.16	0.43
39:BE:70:ALA:O	39:BE:71:GLY:C	2.62	0.43
40:BF:20:LEU:O	40:BF:24:LEU:HD23	2.18	0.43
43:BI:56:LYS:HA	43:BI:59:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:74:ASN:N	43:BI:74:ASN:ND2	2.46	0.43
43:BI:102:SER:HA	43:BI:107:VAL:O	2.18	0.43
48:BQ:42:ILE:HD13	48:BQ:97:VAL:HG21	1.99	0.43
48:BQ:42:ILE:HA	48:BQ:46:GLN:OE1	2.19	0.43
50:BS:24:LEU:N	50:BS:24:LEU:HD22	2.33	0.43
50:BS:35:ILE:HG23	50:BS:35:ILE:O	2.18	0.43
52:BU:101:ARG:HB2	52:BU:101:ARG:NH1	2.33	0.43
57:BZ:166:SER:OG	57:BZ:167:PRO:HA	2.19	0.43
1:CA:9:G:H5'	5:CE:122:GLU:OE2	2.19	0.43
1:CA:741:G:H2'	1:CA:742:G:C8	2.54	0.43
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.84	0.43
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.46	0.43
1:CA:1276:G:C2'	1:CA:1277:C:H5'	2.48	0.43
1:CA:1298:C:H2'	7:CG:114:ARG:NH1	2.32	0.43
1:CA:1445:C:O2'	1:CA:1446:U:H5'	2.18	0.43
2:CB:21:ARG:O	2:CB:22:LYS:C	2.61	0.43
2:CB:121:LEU:HD23	2:CB:124:SER:CB	2.48	0.43
3:CC:59:ARG:O	10:CJ:92:THR:O	2.37	0.43
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.66	0.43
4:CD:189:PRO:CB	4:CD:194:LEU:HD21	2.40	0.43
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	2.01	0.43
7:CG:88:PRO:O	7:CG:89:MET:HB3	2.17	0.43
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	2.00	0.43
12:CL:27:LEU:HD11	12:CL:64:TYR:CD2	2.53	0.43
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	2.00	0.43
15:CO:27:VAL:O	15:CO:28:GLN:C	2.60	0.43
16:CP:18:ARG:HD3	16:CP:35:LYS:CD	2.43	0.43
17:CQ:5:VAL:HG13	17:CQ:59:ILE:O	2.19	0.43
19:CS:31:ILE:O	19:CS:31:ILE:HG12	2.19	0.43
22:CV:57:U:C6	22:CV:59:G:OP2	2.71	0.43
23:CW:13:U:C6	23:CW:13:U:H5'	2.54	0.43
23:CW:25:A:C6	23:CW:26:G:O6	2.71	0.43
23:CW:40:A:C8	23:CW:41:C:C4	3.07	0.43
29:D4:50:VAL:O	29:D4:52:THR:N	2.48	0.43
30:D5:40:LYS:NZ	30:D5:46:CYS:SG	2.82	0.43
35:DA:146:G:O2'	35:DA:147:U:H5'	2.18	0.43
35:DA:709:U:H2'	35:DA:710:G:H8	1.82	0.43
35:DA:953:A:C2'	35:DA:954:G:H5'	2.48	0.43
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.50	0.43
35:DA:1582:C:O2'	35:DA:1586:A:C8	2.64	0.43
35:DA:1701:A:H5'	35:DA:1702:G:OP2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1713:U:C2	35:DA:1747:G:N1	2.86	0.43
35:DA:1721:G:C2	35:DA:1739:U:OP2	2.72	0.43
35:DA:1983:C:H4'	35:DA:2606:C:H4'	2.00	0.43
35:DA:2552:U:H2'	35:DA:2554:U:H5"	2.00	0.43
35:DA:2729:G:H2'	35:DA:2730:C:H6	1.84	0.43
35:DA:2787:C:H1'	39:DE:61:ARG:HG3	1.99	0.43
35:DA:2788:C:O2'	35:DA:2809:A:N3	2.47	0.43
35:DA:2870:C:H5"	49:DR:65:LEU:HD21	2.00	0.43
37:DC:182:PRO:HA	37:DC:183:PRO:HD3	1.91	0.43
38:DD:148:GLU:CD	38:DD:151:LYS:HZ2	2.21	0.43
38:DD:213:ARG:HD2	38:DD:217:ARG:O	2.19	0.43
39:DE:69:LYS:C	39:DE:71:GLY:N	2.76	0.43
39:DE:81:ILE:O	39:DE:82:ARG:O	2.36	0.43
39:DE:102:VAL:HB	39:DE:199:ARG:O	2.19	0.43
40:DF:33:LEU:HD12	40:DF:33:LEU:HA	1.91	0.43
40:DF:160:ASN:C	40:DF:162:LEU:H	2.26	0.43
41:DG:125:PHE:CD2	41:DG:131:TYR:HD2	2.36	0.43
42:DH:83:TYR:CG	42:DH:134:SER:HB3	2.53	0.43
47:DP:41:ARG:HE	47:DP:41:ARG:CA	2.31	0.43
47:DP:84:ASN:HD22	47:DP:84:ASN:N	2.15	0.43
49:DR:61:HIS:O	49:DR:64:ARG:N	2.51	0.43
51:DT:106:SER:HB2	51:DT:110:ILE:HD11	2.01	0.43
1:AA:148:G:C2	1:AA:149:A:N7	2.86	0.43
1:AA:600:C:O2'	1:AA:601:C:H5'	2.17	0.43
1:AA:909:A:OP1	12:AL:21:LYS:HD3	2.19	0.43
1:AA:911:U:O2'	1:AA:912:C:H5'	2.18	0.43
1:AA:929:G:H1	1:AA:1388:C:H42	1.67	0.43
1:AA:1106:G:H5"	3:AC:172:ARG:HD3	2.00	0.43
1:AA:1269:A:H5'	21:AU:18:TYR:O	2.19	0.43
1:AA:1388:C:H2'	1:AA:1389:C:O4'	2.18	0.43
1:AA:1407:C:C2'	35:BA:1912:A:N1	2.82	0.43
2:AB:207:ALA:C	2:AB:209:ARG:H	2.25	0.43
3:AC:11:ARG:NH2	3:AC:177:THR:O	2.52	0.43
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.87	0.43
3:AC:40:ARG:HG2	3:AC:55:VAL:HB	2.00	0.43
5:AE:12:LEU:C	5:AE:12:LEU:HD22	2.44	0.43
6:AF:30:LEU:O	6:AF:35:ALA:N	2.43	0.43
9:AI:103:THR:HG22	9:AI:104:ARG:N	2.32	0.43
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.49	0.43
10:AJ:44:VAL:HG12	10:AJ:45:ARG:N	2.33	0.43
13:AM:68:GLY:H	13:AM:71:ARG:CB	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.75	0.43
14:AN:6:LEU:C	14:AN:8:GLU:N	2.76	0.43
14:AN:27:CYS:SG	14:AN:27:CYS:O	2.77	0.43
16:AP:48:TRP:CD1	16:AP:48:TRP:N	2.87	0.43
20:AT:26:ASN:N	20:AT:26:ASN:HD22	2.17	0.43
23:AW:69:G:N2	23:AW:70:G:H1'	2.34	0.43
25:B0:14:ARG:CG	25:B0:14:ARG:NH1	2.79	0.43
30:B5:3:LYS:CD	35:BA:2613:U:H2'	2.49	0.43
35:BA:259:G:H1'	35:BA:621:A:O2'	2.18	0.43
35:BA:797:C:O2'	35:BA:798:G:H5'	2.19	0.43
35:BA:1047:G:C8	35:BA:1110:G:N1	2.87	0.43
35:BA:1539:G:H2'	35:BA:1540:U:O4'	2.18	0.43
35:BA:1702:G:H2'	35:BA:1703:G:O5'	2.19	0.43
35:BA:2588:G:O2'	35:BA:2589:A:H5'	2.19	0.43
36:BB:29:A:OP2	50:BS:31:SER:OG	2.33	0.43
38:BD:13:ARG:NH1	38:BD:16:MET:SD	2.91	0.43
39:BE:35:GLN:HB3	39:BE:48:GLN:HB3	2.01	0.43
39:BE:77:ILE:CG2	39:BE:78:LEU:H	2.00	0.43
39:BE:101:ARG:HE	39:BE:169:ASN:ND2	2.16	0.43
40:BF:172:TRP:CD1	40:BF:172:TRP:H	2.36	0.43
41:BG:129:GLY:O	41:BG:130:ASN:CB	2.66	0.43
41:BG:132:ASN:OD1	41:BG:158:ALA:HB2	2.18	0.43
41:BG:172:LEU:HD23	41:BG:176:LEU:HD12	2.01	0.43
43:BI:40:THR:O	43:BI:41:GLU:C	2.62	0.43
46:BO:18:LYS:HD2	46:BO:45:GLU:CD	2.44	0.43
46:BO:25:LEU:CD1	46:BO:40:VAL:HG23	2.44	0.43
46:BO:71:ARG:HG3	46:BO:71:ARG:HH11	1.83	0.43
47:BP:102:ARG:NH1	47:BP:102:ARG:HB3	2.34	0.43
49:BR:3:HIS:O	49:BR:4:LEU:HB3	2.17	0.43
50:BS:98:VAL:HG12	50:BS:100:ALA:N	2.34	0.43
52:BU:34:LYS:HE2	52:BU:34:LYS:CA	2.35	0.43
53:BV:2:PHE:CD1	53:BV:13:ARG:NH1	2.87	0.43
56:BY:23:ARG:O	56:BY:24:VAL:O	2.37	0.43
56:BY:30:VAL:HG12	56:BY:31:LEU:N	2.33	0.43
1:CA:140:A:N6	1:CA:141:A:N6	2.66	0.43
1:CA:451:A:N6	1:CA:480:U:H2'	2.33	0.43
1:CA:520:A:OP2	12:CL:51:ALA:CB	2.66	0.43
1:CA:625:G:O2'	1:CA:626:U:H5'	2.19	0.43
1:CA:724:G:H2'	1:CA:725:G:H8	1.82	0.43
1:CA:892:A:H2'	1:CA:893:C:C6	2.54	0.43
1:CA:962:C:H2'	1:CA:963:G:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1151:A:C4	1:CA:1152:A:N7	2.87	0.43
2:CB:67:THR:CB	2:CB:155:LEU:HD21	2.47	0.43
4:CD:100:ARG:HH11	4:CD:100:ARG:HG2	1.84	0.43
4:CD:156:GLU:O	4:CD:157:LEU:C	2.62	0.43
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.52	0.43
8:CH:25:ASP:O	8:CH:26:VAL:HB	2.19	0.43
8:CH:86:ILE:CB	8:CH:133:LEU:HD22	2.48	0.43
10:CJ:70:ARG:HG2	10:CJ:70:ARG:NH1	2.30	0.43
10:CJ:78:ASN:C	10:CJ:80:LYS:H	2.27	0.43
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.18	0.43
16:CP:18:ARG:O	16:CP:19:ILE:C	2.62	0.43
16:CP:20:VAL:HG23	16:CP:35:LYS:HA	2.00	0.43
20:CT:38:LYS:HA	20:CT:41:ILE:HG12	2.00	0.43
22:CV:4:C:C4	22:CV:5:C:N4	2.87	0.43
23:CW:20:G:C2	23:CW:58:C:C2	3.07	0.43
23:CW:22:U:O2	23:CW:22:U:O4'	2.35	0.43
23:CW:58:C:O5'	23:CW:58:C:H6	2.02	0.43
23:CW:63:C:O2	23:CW:63:C:H2'	2.18	0.43
22:CY:31:C:N3	22:CY:44:A:C2	2.87	0.43
26:D1:88:LYS:HD3	26:D1:88:LYS:C	2.44	0.43
27:D2:65:ASN:C	27:D2:67:LYS:N	2.73	0.43
29:D4:25:TYR:CZ	41:DG:2:PRO:HA	2.54	0.43
31:D6:12:GLU:CG	31:D6:23:THR:HG22	2.36	0.43
34:D9:10:ILE:HD12	34:D9:32:HIS:CG	2.54	0.43
35:DA:280:C:C2'	35:DA:281:G:H5'	2.49	0.43
35:DA:902:C:O2'	35:DA:903:C:H5'	2.19	0.43
35:DA:1116:C:H6	35:DA:1116:C:OP2	2.01	0.43
35:DA:1528:A:N6	35:DA:1544:A:C2	2.87	0.43
35:DA:1544:A:O2'	35:DA:1545:A:H5'	2.19	0.43
35:DA:1675:C:O2	39:DE:129:HIS:HA	2.18	0.43
35:DA:2052:G:N3	39:DE:149:ARG:HA	2.32	0.43
35:DA:2531:A:H2	35:DA:2658:C:O2	2.02	0.43
36:DB:17:C:H2'	36:DB:18:G:O4'	2.17	0.43
36:DB:98:G:H2'	36:DB:99:G:O4'	2.19	0.43
38:DD:27:THR:O	38:DD:27:THR:CG2	2.64	0.43
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.51	0.43
39:DE:42:ASP:HB3	39:DE:44:TYR:CE1	2.54	0.43
39:DE:75:VAL:C	39:DE:77:ILE:H	2.23	0.43
40:DF:108:LYS:HD2	40:DF:112:MET:HE3	1.99	0.43
41:DG:163:ALA:CB	41:DG:169:ALA:HB2	2.49	0.43
44:DJ:77:UNK:C	44:DJ:79:UNK:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:57:ALA:C	45:DN:58:ASP:O	2.61	0.43
47:DP:9:ASN:O	47:DP:11:GLY:N	2.52	0.43
47:DP:108:LYS:O	47:DP:110:TYR:N	2.51	0.43
48:DQ:10:ARG:NH1	48:DQ:10:ARG:HB3	2.32	0.43
50:DS:35:ILE:O	50:DS:35:ILE:HG23	2.19	0.43
50:DS:95:HIS:C	50:DS:98:VAL:HG23	2.43	0.43
56:DY:7:VAL:CB	56:DY:8:LYS:HD2	2.48	0.43
1:AA:438:G:C2'	1:AA:494:U:O4	2.62	0.43
1:AA:621:A:H2'	1:AA:622:A:C8	2.54	0.43
1:AA:724:G:H2'	1:AA:725:G:H8	1.83	0.43
1:AA:754:C:H3'	1:AA:754:C:O2	2.18	0.43
1:AA:935:A:H2'	1:AA:936:C:H6	1.83	0.43
1:AA:973:G:OP1	10:AJ:57:LYS:HD3	2.18	0.43
1:AA:1381:U:H1'	7:AG:78:ARG:HH11	1.83	0.43
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.54	0.43
4:AD:163:GLU:OE1	4:AD:163:GLU:HA	2.18	0.43
4:AD:189:PRO:CB	4:AD:194:LEU:HD21	2.41	0.43
7:AG:20:ASP:C	7:AG:22:LEU:N	2.76	0.43
7:AG:88:PRO:O	7:AG:89:MET:HB3	2.18	0.43
8:AH:68:ARG:HG2	8:AH:68:ARG:NH1	2.33	0.43
9:AI:33:PHE:C	9:AI:35:GLU:H	2.27	0.43
11:AK:73:MET:HE1	11:AK:102:GLY:HA3	2.01	0.43
12:AL:27:LEU:HB2	12:AL:33:ARG:HD2	2.01	0.43
16:AP:4:ILE:HD13	16:AP:64:ALA:O	2.19	0.43
17:AQ:86:GLU:O	17:AQ:87:LYS:C	2.62	0.43
20:AT:89:ARG:CB	20:AT:104:LEU:HD11	2.44	0.43
22:AV:3:G:C2'	22:AV:4:C:C5'	2.96	0.43
22:AV:6:C:O2	22:AV:69:G:N1	2.33	0.43
22:AY:4:C:N3	22:AY:72:C:H5	2.17	0.43
22:AY:57:U:C4'	57:BZ:183:LEU:H	2.30	0.43
28:B3:17:LYS:O	28:B3:20:LYS:N	2.52	0.43
31:B6:14:THR:O	31:B6:14:THR:HG23	2.19	0.43
31:B6:54:ILE:CD1	31:B6:54:ILE:O	2.67	0.43
33:B8:30:ARG:HG2	47:BP:62:LEU:CD1	2.49	0.43
35:BA:480:A:H1'	56:BY:44:ILE:HG21	2.00	0.43
35:BA:527:C:C5	35:BA:2779:U:H2'	2.53	0.43
35:BA:654(P):C:H2'	35:BA:654(Q):C:O4'	2.18	0.43
35:BA:1002:G:H2'	35:BA:1003:G:O4'	2.18	0.43
35:BA:1208:C:H2'	35:BA:1208:C:O2	2.18	0.43
35:BA:1548:C:H2'	35:BA:1549:C:H6	1.83	0.43
35:BA:1748:G:H5'	35:BA:1748:G:C8	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1833:U:O2'	35:BA:1969:A:N1	2.49	0.43
35:BA:2360:A:O2'	35:BA:2361:A:C5'	2.67	0.43
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.53	0.43
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.49	0.43
37:BC:210:LEU:HD13	37:BC:227:PRO:CG	2.49	0.43
38:BD:26:LYS:O	38:BD:27:THR:CG2	2.67	0.43
38:BD:231:HIS:ND1	38:BD:232:PRO:CD	2.82	0.43
39:BE:5:LEU:HG	39:BE:49:LEU:HD12	2.00	0.43
39:BE:52:LEU:HB2	39:BE:76:ARG:HB2	2.00	0.43
39:BE:65:GLY:C	39:BE:67:PHE:H	2.26	0.43
39:BE:117:MET:O	39:BE:118:LYS:CB	2.66	0.43
39:BE:117:MET:HE1	39:BE:124:GLY:HA3	1.99	0.43
40:BF:1:MET:O	40:BF:3:GLU:HG2	2.18	0.43
40:BF:2:LYS:HG3	40:BF:25:PRO:HG2	2.01	0.43
42:BH:44:VAL:O	42:BH:46:GLU:CD	2.61	0.43
47:BP:16:ARG:O	47:BP:18:ARG:N	2.52	0.43
48:BQ:135:ASP:HB3	57:BZ:49:ARG:HH11	1.84	0.43
51:BT:28:VAL:O	51:BT:86:ILE:O	2.37	0.43
51:BT:62:THR:CG2	51:BT:75:ILE:HG12	2.46	0.43
51:BT:91:ARG:HG2	51:BT:116:ALA:HB2	2.01	0.43
52:BU:90:VAL:C	52:BU:92:ARG:N	2.77	0.43
53:BV:64:HIS:ND1	53:BV:92:THR:CG2	2.75	0.43
56:BY:86:ARG:NH1	56:BY:95:LYS:HZ1	2.17	0.43
1:CA:397:A:H5'	1:CA:398:C:OP1	2.18	0.43
1:CA:625:G:H4'	16:CP:16:HIS:CG	2.54	0.43
1:CA:895:G:H2'	1:CA:896:C:C6	2.54	0.43
1:CA:1134:G:H22	1:CA:1141:C:C1'	2.30	0.43
1:CA:1308:U:H5'	13:CM:110:ARG:HD2	1.99	0.43
1:CA:1432:G:C5	1:CA:1467:G:O6	2.72	0.43
2:CB:21:ARG:C	2:CB:23:ARG:N	2.76	0.43
2:CB:218:ALA:O	2:CB:222:ILE:HG12	2.18	0.43
3:CC:33:LEU:HD21	14:CN:53:LEU:HD21	2.00	0.43
4:CD:47:ARG:CZ	4:CD:49:ARG:HH22	2.32	0.43
4:CD:101:LEU:C	4:CD:103:ASN:H	2.26	0.43
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.49	0.43
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.18	0.43
10:CJ:95:GLU:HG3	10:CJ:96:ILE:H	1.81	0.43
11:CK:73:MET:HE1	11:CK:102:GLY:HA3	1.99	0.43
12:CL:26:ALA:C	12:CL:27:LEU:HD22	2.43	0.43
15:CO:36:ILE:O	15:CO:37:ASN:C	2.60	0.43
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.33	0.43
17:CQ:51:TYR:CD1	17:CQ:51:TYR:N	2.86	0.43
20:CT:13:LEU:N	20:CT:13:LEU:CD1	2.82	0.43
22:CV:12:U:N3	22:CV:26:G:N2	2.66	0.43
22:CY:5:C:N3	22:CY:6:C:C4	2.87	0.43
30:D5:40:LYS:NZ	30:D5:46:CYS:H	2.17	0.43
34:D9:1:MET:HE3	35:DA:2477:C:H3'	2.00	0.43
35:DA:274:G:C6	35:DA:276:A:N6	2.87	0.43
35:DA:323:G:HO2'	35:DA:1205:U:H3	1.65	0.43
35:DA:545:C:C3'	35:DA:547:A:C5'	2.96	0.43
35:DA:547:A:H1'	35:DA:548:A:C8	2.54	0.43
35:DA:921:G:H4'	35:DA:2269:A:C5	2.54	0.43
35:DA:970:C:H2'	35:DA:971:C:C6	2.53	0.43
35:DA:1416:G:H1'	35:DA:1417:C:C6	2.54	0.43
35:DA:1945:G:H2'	35:DA:1946:U:C6	2.53	0.43
35:DA:2062:A:HO2'	35:DA:2063:C:P	2.40	0.43
35:DA:2649:U:C2	35:DA:2672:G:N2	2.86	0.43
35:DA:2893:G:H5'	35:DA:2894:G:C5'	2.42	0.43
36:DB:83:G:O2'	36:DB:84:C:H5'	2.18	0.43
37:DC:48:LEU:HA	37:DC:209:PHE:O	2.18	0.43
37:DC:51:ASP:HB3	37:DC:54:ARG:HG3	2.00	0.43
38:DD:94:LEU:HD22	38:DD:94:LEU:C	2.43	0.43
38:DD:133:LEU:HD13	38:DD:173:VAL:HG11	2.01	0.43
38:DD:168:ARG:HA	38:DD:173:VAL:HA	2.01	0.43
39:DE:105:THR:HG23	39:DE:166:THR:OG1	2.18	0.43
39:DE:117:MET:HE3	39:DE:124:GLY:HA3	1.99	0.43
41:DG:103:LEU:O	41:DG:106:LEU:HB3	2.19	0.43
51:DT:3:ARG:HB3	51:DT:6:LEU:CB	2.49	0.43
52:DU:8:VAL:HG23	52:DU:11:ARG:HH21	1.83	0.43
52:DU:90:VAL:CG2	53:DV:47:VAL:HG21	2.48	0.43
52:DU:101:ARG:HB2	52:DU:101:ARG:NH1	2.34	0.43
56:DY:30:VAL:HG12	56:DY:31:LEU:N	2.34	0.43
57:DZ:57:ILE:HD12	57:DZ:57:ILE:N	2.34	0.43
1:AA:52:G:H2'	1:AA:53:A:C8	2.54	0.43
1:AA:119:A:O2'	1:AA:120:A:OP2	2.26	0.43
1:AA:501:C:H2'	1:AA:502:G:C8	2.52	0.43
1:AA:829:G:O2'	1:AA:830:G:H5'	2.17	0.43
1:AA:1291:G:O2'	1:AA:1292:U:H5'	2.19	0.43
1:AA:1296:C:C5	1:AA:1297:C:N4	2.87	0.43
1:AA:1348:U:OP1	9:AI:109:VAL:HA	2.18	0.43
2:AB:15:VAL:C	2:AB:16:HIS:ND1	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:12:LEU:HD21	7:AG:28:ASN:HD21	1.83	0.43
7:AG:93:PRO:O	7:AG:94:ARG:C	2.62	0.43
9:AI:17:VAL:HG22	9:AI:63:ILE:CD1	2.47	0.43
9:AI:118:LYS:NZ	9:AI:118:LYS:CB	2.82	0.43
12:AL:58:VAL:O	12:AL:65:GLU:HG3	2.19	0.43
13:AM:65:LYS:C	13:AM:66:LEU:N	2.77	0.43
19:AS:6:LYS:CG	19:AS:7:LYS:HE3	2.48	0.43
22:AV:11:C:C6	22:AV:12:U:H5	2.35	0.43
22:AV:14:A:N7	22:AV:24:A:N1	2.66	0.43
24:AX:20:U:H2'	24:AX:21:A:H8	1.81	0.43
22:AY:55:G:C5'	48:BQ:56:ARG:HH22	2.28	0.43
22:AY:70:G:N1	22:AY:71:G:C5	2.86	0.43
29:B4:19:GLY:O	29:B4:20:ASN:C	2.61	0.43
29:B4:43:TYR:CD2	29:B4:44:THR:HG23	2.50	0.43
30:B5:40:LYS:NZ	30:B5:46:CYS:H	2.17	0.43
30:B5:40:LYS:NZ	30:B5:46:CYS:SG	2.85	0.43
30:B5:50:GLY:HA3	30:B5:55:ARG:HB2	2.00	0.43
35:BA:67:U:O2'	35:BA:68:G:H5'	2.18	0.43
35:BA:92:A:H2'	35:BA:93:G:O4'	2.19	0.43
35:BA:184:C:H2'	35:BA:185:U:C6	2.53	0.43
35:BA:510:C:H2'	35:BA:511:U:O4'	2.19	0.43
35:BA:804:A:H2'	35:BA:806:C:C4	2.54	0.43
35:BA:1171:G:H3'	35:BA:1173:G:O4'	2.18	0.43
35:BA:1244:G:O2'	35:BA:1245:G:H5'	2.19	0.43
35:BA:1316:U:H2'	35:BA:1317:A:H8	1.83	0.43
35:BA:1536:C:O2'	35:BA:1537:G:H5'	2.19	0.43
35:BA:1916:A:C5'	35:BA:1916:A:H8	2.29	0.43
35:BA:2186:G:H2'	35:BA:2187:G:C8	2.54	0.43
35:BA:2788:C:O2'	35:BA:2809:A:N3	2.46	0.43
37:BC:48:LEU:HA	37:BC:209:PHE:O	2.19	0.43
37:BC:184:GLU:C	37:BC:185:LYS:HE3	2.43	0.43
39:BE:78:LEU:O	39:BE:78:LEU:HD12	2.19	0.43
39:BE:141:ILE:O	39:BE:141:ILE:HG13	2.18	0.43
41:BG:31:VAL:O	41:BG:31:VAL:CG1	2.63	0.43
42:BH:43:VAL:HG23	42:BH:43:VAL:O	2.18	0.43
42:BH:124:GLU:CB	42:BH:132:ARG:HG2	2.45	0.43
43:BI:5:LEU:O	43:BI:6:LEU:HD23	2.18	0.43
43:BI:15:VAL:C	43:BI:17:GLN:H	2.26	0.43
43:BI:31:LEU:H	43:BI:31:LEU:HD12	1.82	0.43
43:BI:48:GLU:C	43:BI:50:ARG:H	2.27	0.43
44:BJ:27:UNK:O	44:BJ:83:UNK:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:47:ILE:O	46:BO:48:PRO:C	2.62	0.43
50:BS:35:ILE:H	50:BS:53:SER:HB2	1.84	0.43
51:BT:40:THR:O	51:BT:41:ARG:CB	2.67	0.43
57:BZ:35:ARG:HG3	57:BZ:35:ARG:NH1	2.34	0.43
1:CA:52:G:H2'	1:CA:53:A:C8	2.54	0.43
1:CA:586:C:C2'	1:CA:587:G:H5'	2.49	0.43
1:CA:599:C:H4'	8:CH:130:GLY:C	2.43	0.43
1:CA:623:C:C4	1:CA:624:C:C5	3.05	0.43
1:CA:660:G:H2'	1:CA:661:G:H8	1.84	0.43
1:CA:1179:A:O2'	1:CA:1180:A:H5'	2.18	0.43
1:CA:1230:C:H2'	1:CA:1231:G:H8	1.83	0.43
2:CB:114:ARG:HD2	2:CB:118:LEU:HD11	2.01	0.43
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	2.00	0.43
4:CD:100:ARG:NH2	4:CD:136:PRO:O	2.52	0.43
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.84	0.43
5:CE:64:ARG:HG3	5:CE:64:ARG:NH1	2.30	0.43
5:CE:92:LYS:O	5:CE:118:ILE:HD12	2.18	0.43
6:CF:3:ARG:HG3	6:CF:3:ARG:NH1	2.33	0.43
9:CI:53:VAL:HB	9:CI:92:TYR:CE2	2.52	0.43
9:CI:53:VAL:CG2	9:CI:55:ALA:HB3	2.49	0.43
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HD23	2.01	0.43
12:CL:85:ILE:CG1	12:CL:98:TYR:HB3	2.48	0.43
15:CO:54:ARG:CD	15:CO:58:MET:HE2	2.41	0.43
17:CQ:61:GLU:HA	17:CQ:71:PHE:CE1	2.53	0.43
22:CV:7:U:C4	22:CV:69:G:N1	2.87	0.43
22:CV:20:G:C3'	22:CV:21:U:C5'	2.89	0.43
22:CV:70:G:C4	22:CV:71:G:C8	3.06	0.43
22:CY:55:G:O3'	22:CY:56:U:O4'	2.37	0.43
25:D0:43:THR:O	25:D0:43:THR:HG23	2.19	0.43
27:D2:16:LEU:HB2	27:D2:21:LEU:HG	1.99	0.43
28:D3:8:LEU:CD1	28:D3:31:LEU:HD23	2.31	0.43
31:D6:8:LYS:O	31:D6:9:LEU:C	2.61	0.43
31:D6:16:CYS:SG	31:D6:48:VAL:HG21	2.59	0.43
34:D9:17:ILE:HG13	34:D9:26:ILE:HD12	2.00	0.43
35:DA:365:C:H5'	35:DA:365:C:C6	2.42	0.43
35:DA:539:G:H2'	35:DA:540:C:H6	1.83	0.43
35:DA:545:C:H2'	35:DA:547:A:C5'	2.47	0.43
35:DA:838:C:O2'	35:DA:839:U:H5'	2.19	0.43
35:DA:916:G:O2'	35:DA:917:A:O4'	2.37	0.43
35:DA:1112:G:O2'	35:DA:1113:U:O4'	2.37	0.43
35:DA:1204:A:H2	35:DA:1241:A:N1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1541:G:H1'	35:DA:1542:A:C6	2.54	0.43
35:DA:1653:G:O6	49:DR:11:ASN:HB2	2.18	0.43
35:DA:1678:G:N2	35:DA:1989:G:H1	2.17	0.43
35:DA:2518:A:H5'	35:DA:2518:A:C8	2.54	0.43
35:DA:2531:A:H61	35:DA:2662:A:H61	1.67	0.43
35:DA:2553:G:H2'	35:DA:2554:U:O4'	2.19	0.43
35:DA:2745:C:H2'	35:DA:2746:U:H6	1.81	0.43
37:DC:31:LYS:HZ2	37:DC:183:PRO:HG3	1.82	0.43
37:DC:211:ARG:HH11	37:DC:211:ARG:HG3	1.82	0.43
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.66	0.43
39:DE:10:GLY:C	51:DT:8:LYS:HD3	2.44	0.43
40:DF:2:LYS:HG3	40:DF:25:PRO:HG2	2.01	0.43
41:DG:46:ALA:HB3	41:DG:82:LEU:CD1	2.37	0.43
42:DH:30:LYS:HE3	42:DH:81:GLU:H	1.83	0.43
43:DI:66:GLU:OE2	43:DI:69:LYS:HE3	2.19	0.43
43:DI:74:ASN:C	43:DI:76:THR:H	2.25	0.43
45:DN:2:LYS:NZ	52:DU:95:LEU:CD2	2.73	0.43
45:DN:30:ILE:HG22	45:DN:34:LEU:HD21	1.99	0.43
50:DS:61:ASN:HB3	50:DS:64:GLU:HB2	2.00	0.43
51:DT:100:TYR:C	51:DT:102:ILE:H	2.26	0.43
53:DV:75:PHE:CD1	53:DV:75:PHE:C	2.96	0.43
54:DW:13:SER:O	54:DW:14:PRO:C	2.61	0.43
56:DY:20:TYR:N	56:DY:20:TYR:HD1	2.17	0.43
56:DY:46:LYS:HG3	56:DY:47:LYS:N	2.33	0.43
57:DZ:61:LEU:HD21	57:DZ:65:GLN:HB2	2.00	0.43
1:AA:119:A:H4'	1:AA:120:A:O5'	2.19	0.43
1:AA:374:A:C6	1:AA:375:U:C4	3.07	0.43
1:AA:413:G:N2	1:AA:428:G:O2'	2.52	0.43
1:AA:447:G:C2'	1:AA:485:G:N2	2.67	0.43
1:AA:586:C:H1'	1:AA:878:G:O2'	2.18	0.43
1:AA:741:G:H2'	1:AA:742:G:C8	2.54	0.43
1:AA:828:A:H5"	1:AA:859:A:C2	2.54	0.43
1:AA:955:U:O2'	1:AA:956:U:H5'	2.19	0.43
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.83	0.43
2:AB:48:MET:HE2	2:AB:48:MET:C	2.43	0.43
2:AB:102:LEU:HD23	2:AB:182:ILE:CD1	2.49	0.43
7:AG:41:ARG:HG3	7:AG:41:ARG:HH11	1.84	0.43
11:AK:61:ALA:HB3	11:AK:90:GLY:HA3	2.01	0.43
12:AL:32:PHE:HB3	12:AL:84:LEU:CD2	2.44	0.43
12:AL:75:HIS:C	12:AL:77:LEU:N	2.72	0.43
14:AN:42:ILE:O	14:AN:43:CYS:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:8:LYS:HG2	15:AO:12:ILE:HD11	2.01	0.43
15:AO:36:ILE:O	15:AO:37:ASN:C	2.61	0.43
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.81	0.43
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.52	0.43
18:AR:35:ARG:C	18:AR:37:VAL:N	2.77	0.43
22:AV:4:C:C1'	22:AV:5:C:C6	3.02	0.43
22:AV:7:U:C4	22:AV:69:G:N1	2.87	0.43
22:AV:36:AG9:H2G	22:AV:36:AG9:H1H2	1.84	0.43
23:AW:51:G:H22	23:AW:67:C:H42	1.67	0.43
22:AY:73:C:N3	22:AY:74:C:C2	2.87	0.43
30:B5:3:LYS:CE	35:BA:2613:U:H2'	2.49	0.43
30:B5:16:ARG:HG2	30:B5:16:ARG:NH1	2.34	0.43
33:B8:53:PRO:HG2	33:B8:54:GLU:N	2.34	0.43
34:B9:33:LYS:HE3	35:BA:2526:G:O2'	2.18	0.43
35:BA:360:G:H2'	35:BA:361:G:C8	2.54	0.43
35:BA:680:G:H2'	35:BA:681:G:H8	1.82	0.43
35:BA:1542:A:C8	35:BA:1544:A:H5"	2.54	0.43
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	2.01	0.43
35:BA:2469:A:O2'	48:BQ:56:ARG:NE	2.44	0.43
36:BB:5:C:O2'	36:BB:6:C:H5'	2.17	0.43
36:BB:91:C:OP1	48:BQ:16:ARG:HG2	2.18	0.43
36:BB:98:G:H2'	36:BB:99:G:O4'	2.19	0.43
38:BD:89:SER:O	38:BD:159:ALA:HB2	2.19	0.43
38:BD:205:VAL:O	38:BD:206:LEU:C	2.62	0.43
39:BE:69:LYS:C	39:BE:71:GLY:N	2.77	0.43
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	2.00	0.43
41:BG:46:ALA:HB2	41:BG:88:ILE:CG1	2.48	0.43
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.44	0.43
42:BH:41:MET:SD	42:BH:43:VAL:HG13	2.58	0.43
43:BI:9:LEU:H	43:BI:13:GLY:HA2	1.84	0.43
47:BP:24:GLY:O	47:BP:25:SER:HB3	2.19	0.43
48:BQ:21:THR:HG22	48:BQ:21:THR:O	2.19	0.43
48:BQ:60:ARG:N	57:BZ:179:ASP:HA	2.33	0.43
56:BY:13:VAL:HG23	56:BY:73:ARG:C	2.44	0.43
1:CA:119:A:H4'	1:CA:120:A:O5'	2.18	0.43
1:CA:189:G:C6	1:CA:189(L):G:C6	3.07	0.43
1:CA:343:U:O2	1:CA:347:G:C6	2.72	0.43
1:CA:474:G:C2	1:CA:475:G:C5	3.07	0.43
1:CA:963:G:N2	10:CJ:55:LYS:HZ3	2.17	0.43
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.19	0.43
1:CA:1206:G:O2'	1:CA:1207:G:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1457:G:O2'	1:CA:1458:G:H5'	2.19	0.43
2:CB:95:GLN:HE21	2:CB:147:LYS:HG2	1.84	0.43
2:CB:199:TYR:CD1	2:CB:199:TYR:N	2.87	0.43
4:CD:98:GLU:CD	4:CD:103:ASN:HD21	2.26	0.43
5:CE:26:PHE:O	5:CE:27:ARG:HB2	2.19	0.43
5:CE:42:GLY:CA	5:CE:65:ASN:O	2.67	0.43
5:CE:144:THR:C	5:CE:146:ALA:N	2.73	0.43
9:CI:112:LYS:HA	9:CI:119:ALA:CB	2.45	0.43
12:CL:20:LYS:HB3	12:CL:20:LYS:HZ2	1.82	0.43
12:CL:90:VAL:HG12	12:CL:92:ASP:H	1.84	0.43
12:CL:119:LYS:C	12:CL:120:TYR:CD1	2.96	0.43
15:CO:40:SER:O	15:CO:43:LEU:HB2	2.19	0.43
16:CP:6:LEU:HG	16:CP:17:TYR:CB	2.49	0.43
16:CP:51:VAL:O	16:CP:53:VAL:N	2.51	0.43
16:CP:68:ASP:C	16:CP:70:ALA:N	2.69	0.43
17:CQ:94:ASN:O	17:CQ:98:LEU:CD1	2.67	0.43
19:CS:47:HIS:O	19:CS:62:ILE:HG22	2.19	0.43
19:CS:53:ASN:HD22	19:CS:58:VAL:CG1	2.32	0.43
22:CV:8:U:C4	22:CV:13:U:C4	3.07	0.43
22:CV:43:G:H2'	22:CV:44:A:O4'	2.19	0.43
22:CV:74:C:H2'	22:CV:75:A:O4'	2.19	0.43
24:CX:22:A:C2	22:CY:36:AG9:N4	2.87	0.43
22:CY:56:U:H5"	57:DZ:180:VAL:O	2.19	0.43
25:D0:48:GLY:HA3	25:D0:80:HIS:HD1	1.83	0.43
29:D4:6:HIS:O	29:D4:8:LYS:N	2.52	0.43
29:D4:26:SER:HB3	41:DG:105:LYS:HE2	2.00	0.43
33:D8:59:LYS:CD	47:DP:50:ARG:HB3	2.39	0.43
35:DA:92:A:O2'	35:DA:93:G:H5'	2.19	0.43
35:DA:466:A:H2'	35:DA:467:G:H5'	2.01	0.43
35:DA:570:G:H2'	35:DA:2030:A:N7	2.33	0.43
35:DA:745:G:C2'	35:DA:746:A:H5'	2.49	0.43
35:DA:866:A:H2	35:DA:867:C:C4	2.36	0.43
35:DA:1171:G:H3'	35:DA:1173:G:O4'	2.18	0.43
35:DA:1332:G:H8	35:DA:1332:G:H5"	1.84	0.43
35:DA:1539:G:H2'	35:DA:1540:U:O4'	2.18	0.43
35:DA:1540:U:O3'	35:DA:1542:A:OP1	2.37	0.43
35:DA:1833:U:O2	35:DA:1969:A:C2	2.72	0.43
35:DA:2063:C:O2	35:DA:2450:A:N1	2.52	0.43
35:DA:2128:C:OP1	37:DC:37:LYS:HG3	2.19	0.43
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.52	0.43
35:DA:2282:G:O2'	35:DA:2390:U:O4	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:158:ALA:O	38:DD:196:VAL:HG11	2.19	0.43
39:DE:72:VAL:HG12	39:DE:72:VAL:O	2.17	0.43
39:DE:117:MET:O	39:DE:118:LYS:CB	2.66	0.43
40:DF:136:THR:O	40:DF:137:LYS:C	2.60	0.43
41:DG:19:LEU:HA	41:DG:22:ARG:HB2	2.01	0.43
41:DG:139:LEU:C	41:DG:141:PHE:N	2.76	0.43
43:DI:27:ARG:CG	43:DI:27:ARG:NH1	2.82	0.43
45:DN:131:GLN:HA	45:DN:131:GLN:OE1	2.19	0.43
46:DO:47:ILE:HG13	46:DO:48:PRO:HD2	1.97	0.43
50:DS:17:ARG:O	50:DS:20:ARG:HG2	2.19	0.43
52:DU:22:LYS:HD3	52:DU:22:LYS:HA	1.80	0.43
54:DW:4:LYS:HG3	54:DW:106:ILE:CG2	2.49	0.43
56:DY:13:VAL:HG11	56:DY:28:LYS:HD3	2.01	0.43
56:DY:21:LYS:O	56:DY:22:GLY:O	2.37	0.43
57:DZ:35:ARG:HG3	57:DZ:35:ARG:HH11	1.83	0.43
57:DZ:135:GLU:O	57:DZ:137:ILE:N	2.40	0.43
1:AA:35:G:H2'	1:AA:36:C:C6	2.54	0.42
1:AA:237:C:H2'	1:AA:238:G:H8	1.83	0.42
1:AA:474:G:C2	1:AA:475:G:C5	3.07	0.42
1:AA:602:A:O2'	1:AA:603:U:H5'	2.18	0.42
1:AA:858:G:O6	1:AA:869:G:H3'	2.19	0.42
1:AA:1030(B):C:C2'	1:AA:1030(C):G:H5'	2.49	0.42
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.54	0.42
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.54	0.42
2:AB:12:GLU:O	2:AB:14:GLY:N	2.51	0.42
3:AC:59:ARG:NH1	3:AC:97:LYS:NZ	2.67	0.42
3:AC:167:TRP:O	3:AC:168:ALA:CB	2.67	0.42
4:AD:52:SER:N	4:AD:55:ALA:HB3	2.33	0.42
4:AD:108:LEU:HD23	4:AD:110:PHE:CE1	2.54	0.42
5:AE:45:PHE:CE2	5:AE:47:LYS:HD2	2.53	0.42
5:AE:118:ILE:HG13	5:AE:119:LEU:N	2.34	0.42
9:AI:48:GLU:CD	9:AI:51:ARG:HD2	2.43	0.42
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.45	0.42
10:AJ:6:ILE:HD12	10:AJ:6:ILE:C	2.44	0.42
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HD23	2.00	0.42
10:AJ:95:GLU:HG3	10:AJ:96:ILE:H	1.83	0.42
16:AP:56:ALA:HB1	16:AP:74:LEU:HD23	2.00	0.42
17:AQ:65:ILE:O	17:AQ:66:SER:HB3	2.18	0.42
18:AR:45:SER:HB3	18:AR:51:LEU:HD21	2.00	0.42
20:AT:40:ALA:HB2	20:AT:55:ILE:HG22	2.00	0.42
22:AV:42:C:C2'	22:AV:43:G:H5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:44:A:C6	22:AV:45:U:C4	3.07	0.42
22:AV:51:G:OP1	22:AV:51:G:H3'	2.18	0.42
22:AV:54:G:C2'	22:AV:55:G:H5'	2.48	0.42
23:AW:20:G:C6	23:AW:58:C:N4	2.87	0.42
23:AW:49:G:N2	23:AW:52:C:O5'	2.52	0.42
23:AW:51:G:C6	23:AW:52:C:C4	3.07	0.42
24:AX:17:U:H2'	24:AX:18:A:O4'	2.18	0.42
25:B0:48:GLY:HA3	25:B0:80:HIS:HD1	1.83	0.42
25:B0:51:VAL:HG23	25:B0:81:VAL:HG23	2.01	0.42
26:B1:56:GLN:CB	26:B1:87:PRO:HB3	2.47	0.42
33:B8:56:GLU:O	33:B8:58:ILE:N	2.51	0.42
35:BA:176:G:C5	35:BA:177:G:C6	3.07	0.42
35:BA:816:C:O2'	35:BA:817:C:H5'	2.19	0.42
35:BA:1242:A:C2	47:BP:8:PRO:HG3	2.54	0.42
35:BA:1331:A:O2'	35:BA:1332:G:H5"	2.19	0.42
35:BA:1681:G:H8	35:BA:1681:G:OP2	2.01	0.42
35:BA:2236:C:H2'	35:BA:2237:G:H5'	2.01	0.42
35:BA:2552:U:H2'	35:BA:2554:U:H5"	2.00	0.42
36:BB:7:G:H5'	36:BB:8:U:OP2	2.19	0.42
38:BD:8:PRO:HB3	38:BD:14:ARG:HB2	2.01	0.42
38:BD:28:GLU:N	38:BD:29:PRO:HD2	2.21	0.42
38:BD:48:ARG:NH1	38:BD:48:ARG:HG3	2.34	0.42
40:BF:66:PRO:C	40:BF:68:LYS:H	2.26	0.42
40:BF:155:LEU:HD22	40:BF:186:ILE:HA	2.01	0.42
42:BH:89:ILE:O	42:BH:89:ILE:HG13	2.20	0.42
43:BI:23:PRO:HB3	43:BI:27:ARG:NH2	2.34	0.42
47:BP:126:VAL:HG22	47:BP:145:PRO:HG2	2.00	0.42
48:BQ:39:PRO:HD3	48:BQ:99:PRO:HG3	2.02	0.42
48:BQ:109:VAL:CG1	48:BQ:113:GLN:OE1	2.66	0.42
48:BQ:121:ALA:C	48:BQ:123:HIS:N	2.77	0.42
51:BT:26:ASP:OD1	51:BT:26:ASP:C	2.62	0.42
51:BT:65:LYS:HG3	51:BT:66:VAL:N	2.34	0.42
52:BU:88:ILE:HG23	53:BV:47:VAL:HG23	2.01	0.42
55:BX:31:HIS:ND1	55:BX:32:PRO:HD2	2.34	0.42
56:BY:49:VAL:HG12	56:BY:50:ARG:N	2.33	0.42
1:CA:475:G:C2'	1:CA:476:G:H8	2.28	0.42
1:CA:570:G:H1'	1:CA:820:U:C4	2.54	0.42
1:CA:788:U:H2'	1:CA:789:U:O4'	2.19	0.42
1:CA:1038:C:O5'	1:CA:1038:C:H6	2.02	0.42
1:CA:1129:C:OP1	1:CA:1130:A:H5"	2.19	0.42
1:CA:1300:G:O2'	1:CA:1301:U:P	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1316:G:H2'	1:CA:1317:C:C5'	2.49	0.42
1:CA:1339:A:H4'	22:CV:42:C:O2'	2.19	0.42
1:CA:1348:U:OP1	9:CI:109:VAL:HA	2.19	0.42
1:CA:1405:G:H1'	1:CA:1518:A:O2'	2.18	0.42
1:CA:1442(B):A:C5	51:DT:118:ARG:NE	2.87	0.42
2:CB:166:ASP:OD2	2:CB:169:LYS:HB2	2.19	0.42
2:CB:185:ILE:HG22	2:CB:199:TYR:HD1	1.84	0.42
3:CC:172:ARG:C	3:CC:173:VAL:HG23	2.44	0.42
4:CD:71:SER:O	4:CD:72:GLU:C	2.61	0.42
4:CD:98:GLU:OE2	4:CD:103:ASN:ND2	2.50	0.42
4:CD:124:GLY:C	4:CD:126:ILE:H	2.27	0.42
8:CH:68:ARG:HG2	8:CH:68:ARG:NH1	2.33	0.42
10:CJ:21:GLN:O	10:CJ:25:GLU:HG3	2.18	0.42
10:CJ:30:SER:C	10:CJ:80:LYS:NZ	2.77	0.42
13:CM:97:PRO:O	13:CM:98:VAL:HA	2.19	0.42
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.49	0.42
17:CQ:27:PHE:C	17:CQ:27:PHE:CD1	2.96	0.42
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.52	0.42
22:CV:56:U:C2'	22:CV:57:U:H5'	2.48	0.42
22:CY:13:U:C2	22:CY:25:A:C6	3.07	0.42
26:D1:44:PRO:O	26:D1:46:LEU:HD13	2.18	0.42
27:D2:8:LYS:O	27:D2:9:GLN:C	2.62	0.42
27:D2:65:ASN:C	27:D2:69:ARG:HH12	2.27	0.42
35:DA:142:A:H1'	35:DA:1408:C:C1'	2.49	0.42
35:DA:234:C:H2'	35:DA:235:U:C6	2.54	0.42
35:DA:1750:G:H2'	35:DA:1751:C:H6	1.84	0.42
35:DA:1841:U:H2'	35:DA:1842:G:H8	1.83	0.42
35:DA:2230:G:H2'	35:DA:2231:C:C6	2.54	0.42
35:DA:2393:A:H5'	47:DP:62:LEU:HB2	2.01	0.42
36:DB:111:G:H2'	36:DB:112:U:H5'	2.01	0.42
39:DE:103:ASP:OD2	39:DE:201:THR:HA	2.19	0.42
41:DG:117:PHE:CG	41:DG:118:ARG:N	2.86	0.42
41:DG:128:ARG:C	41:DG:129:GLY:O	2.62	0.42
45:DN:65:LYS:O	45:DN:69:GLN:HB2	2.18	0.42
45:DN:119:ARG:HG3	45:DN:119:ARG:HH11	1.83	0.42
45:DN:128:HIS:HA	45:DN:129:PRO:HD2	1.85	0.42
47:DP:146:VAL:O	47:DP:148:LEU:N	2.52	0.42
48:DQ:31:ASP:HA	48:DQ:134:ARG:HG3	2.01	0.42
51:DT:32:TYR:CG	51:DT:81:PRO:CB	3.02	0.42
52:DU:97:ASP:OD1	52:DU:98:LEU:N	2.52	0.42
56:DY:44:ILE:O	56:DY:45:VAL:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:77:PRO:O	56:DY:78:ALA:HB2	2.18	0.42
1:AA:80:G:H3'	1:AA:81:U:H5'	2.01	0.42
1:AA:509:A:H5"	4:AD:55:ALA:HB2	2.01	0.42
1:AA:543:C:C2	1:AA:544:G:C8	3.07	0.42
1:AA:975:A:H4'	1:AA:1358:U:O2	2.18	0.42
1:AA:1112:C:N3	3:AC:178:LEU:HD23	2.35	0.42
1:AA:1281:U:O2'	1:AA:1282:C:OP1	2.34	0.42
1:AA:1287:A:C6	1:AA:1288:A:C6	3.07	0.42
1:AA:1387:G:C6	1:AA:1388:C:N4	2.87	0.42
2:AB:169:LYS:HD2	2:AB:170:GLU:OE2	2.19	0.42
3:AC:40:ARG:HH11	3:AC:40:ARG:HG3	1.84	0.42
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.35	0.42
4:AD:47:ARG:CZ	4:AD:49:ARG:HH22	2.33	0.42
4:AD:61:LYS:HD3	4:AD:206:PHE:CD2	2.54	0.42
4:AD:61:LYS:HE2	4:AD:61:LYS:HB3	1.90	0.42
4:AD:163:GLU:C	4:AD:165:MET:N	2.77	0.42
5:AE:72:GLN:O	5:AE:74:GLY:N	2.51	0.42
6:AF:100:ASN:HD21	18:AR:23:LYS:NZ	2.18	0.42
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.19	0.42
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	2.01	0.42
11:AK:98:LEU:O	11:AK:101:SER:OG	2.33	0.42
11:AK:105:VAL:O	11:AK:105:VAL:HG23	2.19	0.42
11:AK:124:LYS:NZ	11:AK:124:LYS:CB	2.82	0.42
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.48	0.42
20:AT:61:SER:O	20:AT:62:LEU:C	2.62	0.42
22:AV:36:AG9:NH2	24:AX:18:A:O2'	2.52	0.42
22:AV:51:G:H2'	22:AV:52:C:C6	2.54	0.42
23:AW:15:G:H21	23:AW:23:A:H1'	1.74	0.42
23:AW:40:A:C5	23:AW:41:C:C2	3.07	0.42
23:AW:64:C:O2'	37:BC:55:SER:HB2	2.19	0.42
23:AW:66:G:H2'	23:AW:67:C:O4'	2.19	0.42
22:AY:67:C:H3'	22:AY:67:C:H6	1.84	0.42
28:B3:7:LYS:CG	28:B3:34:GLU:HG2	2.49	0.42
28:B3:28:LEU:HA	28:B3:33:GLN:OE1	2.18	0.42
33:B8:11:LYS:O	47:BP:65:ARG:CD	2.68	0.42
34:B9:6:SER:HB2	35:BA:2466:C:H5"	2.01	0.42
35:BA:274:G:C6	35:BA:276:A:N6	2.87	0.42
35:BA:755:C:H2'	35:BA:756:C:C6	2.54	0.42
35:BA:769:G:O2'	35:BA:770:G:H5'	2.19	0.42
35:BA:1053:C:O2	35:BA:1053:C:C2'	2.67	0.42
35:BA:1368:G:C2	35:BA:1369:G:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.54	0.42
35:BA:1441:G:H4'	35:BA:1628:G:OP1	2.19	0.42
35:BA:1509(B):A:O2'	35:BA:1510:G:H5'	2.19	0.42
35:BA:1711:C:H2'	35:BA:1712:C:H6	1.84	0.42
35:BA:2473:U:C5	35:BA:2474:C:H1'	2.54	0.42
36:BB:87:G:H2'	36:BB:88:C:H5"	2.00	0.42
38:BD:213:ARG:HD2	38:BD:213:ARG:HA	1.82	0.42
44:BJ:56:UNK:O	44:BJ:58:UNK:N	2.51	0.42
46:BO:119:PRO:HB2	51:BT:68:TYR:CZ	2.54	0.42
47:BP:146:VAL:O	47:BP:148:LEU:N	2.51	0.42
48:BQ:121:ALA:C	48:BQ:123:HIS:H	2.26	0.42
57:BZ:151:HIS:HB2	57:BZ:152:ALA:H	1.37	0.42
1:CA:328:C:H4'	1:CA:329:A:C5'	2.48	0.42
1:CA:625:G:H2'	1:CA:626:U:C6	2.54	0.42
1:CA:963:G:N2	10:CJ:55:LYS:NZ	2.63	0.42
1:CA:1091:U:O2	1:CA:1093:A:H8	2.03	0.42
2:CB:185:ILE:HB	2:CB:199:TYR:O	2.18	0.42
2:CB:230:VAL:HG23	2:CB:231:GLU:H	1.84	0.42
2:CB:236:TYR:HA	2:CB:239:VAL:CG2	2.46	0.42
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.44	0.42
4:CD:79:PHE:HD2	4:CD:207:TYR:HD2	1.66	0.42
4:CD:96:LEU:N	4:CD:96:LEU:CD1	2.82	0.42
4:CD:122:ARG:HD2	4:CD:122:ARG:HA	1.79	0.42
6:CF:7:ASN:C	6:CF:8:ILE:HG13	2.44	0.42
6:CF:24:GLU:OE2	6:CF:28:ARG:NH1	2.52	0.42
6:CF:61:LEU:O	6:CF:62:TRP:HB2	2.20	0.42
6:CF:62:TRP:CG	18:CR:35:ARG:HH12	2.37	0.42
6:CF:99:ALA:HB3	18:CR:29:PHE:CE1	2.54	0.42
8:CH:83:ILE:HD13	8:CH:137:VAL:HG22	2.00	0.42
8:CH:134:ILE:HG22	8:CH:135:CYS:SG	2.60	0.42
9:CI:33:PHE:HE1	9:CI:37:PHE:CD2	2.36	0.42
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB2	1.99	0.42
12:CL:53:ARG:N	12:CL:53:ARG:HD2	2.34	0.42
16:CP:67:THR:CG2	16:CP:68:ASP:H	2.29	0.42
17:CQ:52:LYS:O	17:CQ:55:ASP:OD1	2.37	0.42
17:CQ:56:VAL:N	17:CQ:78:GLU:O	2.52	0.42
21:CU:18:TYR:CG	21:CU:24:ARG:HG3	2.54	0.42
22:CV:10:G:H2'	22:CV:11:C:N1	2.34	0.42
22:CV:12:U:C2'	22:CV:13:U:O4'	2.55	0.42
23:CW:6:C:O2	23:CW:69:G:O6	2.37	0.42
23:CW:52:C:C2	23:CW:53:U:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:55:G:O2'	23:CW:56:U:H5'	2.19	0.42
23:CW:60:A:C6	23:CW:63:C:C2	3.06	0.42
22:CY:70:G:C2'	22:CY:71:G:O4'	2.67	0.42
26:D1:73:LEU:CD1	26:D1:94:LEU:HB3	2.48	0.42
26:D1:74:VAL:O	26:D1:77:ALA:HB3	2.19	0.42
28:D3:18:ASP:O	28:D3:21:ALA:HB3	2.18	0.42
30:D5:23:HIS:O	30:D5:24:ALA:C	2.62	0.42
35:DA:158:U:C2'	35:DA:171:G:O5'	2.66	0.42
35:DA:804:A:H2'	35:DA:806:C:C4	2.54	0.42
35:DA:832:G:O2'	47:DP:52:GLU:HB3	2.18	0.42
35:DA:1047:G:N3	35:DA:1111:A:N6	2.67	0.42
35:DA:1388:G:O2'	35:DA:1389:G:H5'	2.18	0.42
35:DA:1568:G:OP2	38:DD:63:ARG:NH2	2.48	0.42
35:DA:1797:C:O2'	38:DD:259:THR:HB	2.19	0.42
35:DA:2103:C:H2'	35:DA:2104:G:O4'	2.19	0.42
35:DA:2199:A:H5'	35:DA:2200:C:OP2	2.19	0.42
38:DD:35:LYS:NZ	38:DD:36:PRO:HD3	2.35	0.42
38:DD:73:VAL:O	38:DD:75:ILE:N	2.52	0.42
38:DD:96:HIS:ND1	38:DD:102:LYS:HD3	2.34	0.42
38:DD:211:ARG:O	38:DD:215:LEU:HG	2.19	0.42
39:DE:78:LEU:HD12	39:DE:78:LEU:O	2.19	0.42
39:DE:199:ARG:NH1	39:DE:199:ARG:HB2	2.34	0.42
40:DF:3:GLU:HA	40:DF:24:LEU:CB	2.49	0.42
41:DG:125:PHE:O	41:DG:126:ASP:O	2.37	0.42
42:DH:42:ARG:HH11	42:DH:42:ARG:HA	1.84	0.42
45:DN:90:MET:HE2	45:DN:90:MET:HA	2.01	0.42
46:DO:13:ASN:C	46:DO:15:GLY:H	2.25	0.42
48:DQ:27:VAL:CG1	48:DQ:105:GLU:OE2	2.67	0.42
48:DQ:103:MET:CE	48:DQ:125:LEU:HD13	2.48	0.42
49:DR:18:LEU:HD21	49:DR:22:ARG:CZ	2.48	0.42
49:DR:33:ARG:HA	49:DR:114:VAL:O	2.20	0.42
51:DT:28:VAL:O	51:DT:86:ILE:O	2.36	0.42
52:DU:29:SER:OG	52:DU:30:LYS:HE2	2.20	0.42
1:AA:136:C:O3'	16:AP:65:GLN:NE2	2.53	0.42
1:AA:1019:C:H2'	1:AA:1020:U:O4'	2.19	0.42
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.19	0.42
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.19	0.42
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.54	0.42
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.18	0.42
3:AC:82:GLU:CD	3:AC:82:GLU:H	2.25	0.42
4:AD:106:TYR:C	4:AD:108:LEU:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:8:ILE:HG22	6:AF:10:LEU:HD12	2.01	0.42
7:AG:45:ASP:HB2	7:AG:117:ALA:HB2	2.02	0.42
7:AG:126:ASP:O	7:AG:131:LYS:N	2.49	0.42
12:AL:84:LEU:HD23	12:AL:85:ILE:O	2.20	0.42
13:AM:89:GLY:HA2	13:AM:93:ARG:HH11	1.83	0.42
14:AN:41:ARG:HG3	14:AN:42:ILE:HD13	1.99	0.42
17:AQ:27:PHE:CD1	17:AQ:27:PHE:C	2.97	0.42
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.52	0.42
19:AS:19:VAL:O	19:AS:23:ASN:ND2	2.53	0.42
21:AU:18:TYR:CG	21:AU:24:ARG:HG3	2.54	0.42
22:AV:30:U:C4	22:AV:31:C:N4	2.87	0.42
23:AW:13:U:C6	23:AW:13:U:H5'	2.54	0.42
23:AW:23:A:H3'	23:AW:48:G:C6	2.50	0.42
23:AW:29:A:H8	23:AW:29:A:OP2	2.01	0.42
22:AY:13:U:C4	22:AY:25:A:N6	2.87	0.42
22:AY:26:G:H2'	22:AY:27:C:O4'	2.19	0.42
22:AY:56:U:O2	57:BZ:183:LEU:CB	2.68	0.42
25:B0:74:ARG:HH11	25:B0:74:ARG:CG	2.32	0.42
26:B1:21:ARG:O	26:B1:32:LYS:HA	2.19	0.42
28:B3:7:LYS:CB	28:B3:34:GLU:HG2	2.49	0.42
29:B4:5:ILE:HG12	41:BG:67:LYS:NZ	2.33	0.42
29:B4:16:CYS:HB3	29:B4:20:ASN:O	2.20	0.42
30:B5:43:HIS:HD2	35:BA:2815:C:O2'	2.03	0.42
31:B6:8:LYS:O	31:B6:9:LEU:C	2.62	0.42
33:B8:41:ILE:HD13	35:BA:2419:U:OP1	2.19	0.42
35:BA:572:A:H2'	35:BA:573:G:O4'	2.19	0.42
35:BA:654(I):C:H5'	35:BA:654(J):A:OP1	2.19	0.42
35:BA:697:C:H2'	35:BA:698:C:C6	2.55	0.42
35:BA:776:G:H4'	35:BA:777:A:O5'	2.18	0.42
35:BA:842:G:O2'	35:BA:843:G:H5'	2.19	0.42
35:BA:991:C:H6	35:BA:991:C:C5'	2.20	0.42
35:BA:1495:A:N3	35:BA:1495:A:H2'	2.34	0.42
35:BA:1816:G:P	38:BD:39:LYS:HE3	2.59	0.42
35:BA:2572:A:C8	39:BE:144:ARG:HD2	2.54	0.42
36:BB:28:C:H2'	36:BB:29:A:H8	1.84	0.42
37:BC:54:ARG:CB	37:BC:57:GLN:HB3	2.49	0.42
38:BD:65:ILE:HD11	38:BD:67:PHE:CD2	2.54	0.42
38:BD:126:GLN:O	38:BD:127:VAL:C	2.62	0.42
38:BD:213:ARG:HD2	38:BD:217:ARG:O	2.19	0.42
39:BE:59:VAL:HG13	39:BE:60:ASN:H	1.82	0.42
41:BG:139:LEU:HA	41:BG:144:ILE:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:170:ARG:H	42:BH:170:ARG:CD	2.29	0.42
43:BI:74:ASN:ND2	43:BI:75:LEU:H	2.18	0.42
45:BN:30:ILE:HG22	45:BN:34:LEU:HD21	2.02	0.42
45:BN:65:LYS:HD2	45:BN:69:GLN:HE21	1.84	0.42
46:BO:12:ASP:OD2	46:BO:14:THR:HG23	2.20	0.42
47:BP:112:LEU:C	47:BP:112:LEU:CD1	2.92	0.42
48:BQ:111:GLU:HG2	48:BQ:111:GLU:O	2.18	0.42
50:BS:66:ALA:CA	50:BS:69:VAL:HG12	2.48	0.42
52:BU:34:LYS:HA	52:BU:34:LYS:CE	2.36	0.42
56:BY:39:VAL:O	56:BY:40:GLU:CD	2.62	0.42
1:CA:151:A:H2'	1:CA:152:A:C5'	2.50	0.42
1:CA:197:A:N6	1:CA:221:C:C5'	2.83	0.42
1:CA:814:A:H2'	1:CA:816:A:H5"	2.01	0.42
1:CA:959:A:H3'	1:CA:960:U:C5'	2.46	0.42
1:CA:1126:U:OP2	1:CA:1281:U:O2	2.37	0.42
3:CC:14:ILE:O	3:CC:15:THR:C	2.61	0.42
4:CD:61:LYS:HD3	4:CD:206:PHE:CD2	2.54	0.42
4:CD:122:ARG:HH12	4:CD:135:LEU:CD1	2.27	0.42
4:CD:138:TYR:C	4:CD:138:TYR:CD1	2.97	0.42
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.31	0.42
5:CE:139:LEU:HD23	5:CE:142:LEU:HD11	2.02	0.42
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.34	0.42
13:CM:19:LEU:N	13:CM:19:LEU:HD22	2.34	0.42
13:CM:20:THR:C	13:CM:22:ILE:N	2.77	0.42
13:CM:66:LEU:N	13:CM:70:LEU:HB2	2.34	0.42
22:CV:36:AG9:H2G	22:CV:36:AG9:H1H2	1.83	0.42
23:CW:3:G:N1	23:CW:4:C:C4	2.88	0.42
23:CW:43:G:C6	23:CW:44:A:C5	3.07	0.42
23:CW:73:C:H3'	23:CW:74:C:C5'	2.46	0.42
22:CY:19:G:O6	22:CY:59:G:N1	2.53	0.42
22:CY:63:C:C2'	57:DZ:185:GLU:OE1	2.67	0.42
26:D1:83:GLU:O	26:D1:84:GLY:O	2.38	0.42
35:DA:544:G:N2	35:DA:547:A:H5'	2.33	0.42
35:DA:2124:G:N3	37:DC:218:THR:HG23	2.34	0.42
35:DA:2291:U:OP1	35:DA:2381:C:H5'	2.20	0.42
35:DA:2720:U:H3'	35:DA:2721:A:H8	1.84	0.42
38:DD:58:HIS:CD2	38:DD:59:LYS:H	2.37	0.42
38:DD:252:TRP:HE3	38:DD:253:GLN:O	2.02	0.42
40:DF:64:ILE:HG13	40:DF:65:TRP:CD1	2.54	0.42
40:DF:178:PRO:HB3	40:DF:198:ALA:HB1	2.02	0.42
41:DG:77:ILE:C	41:DG:79:ASN:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:61:HIS:O	42:DH:62:LYS:C	2.62	0.42
42:DH:83:TYR:N	42:DH:83:TYR:CD1	2.86	0.42
42:DH:106:THR:HG22	42:DH:112:PRO:CB	2.49	0.42
43:DI:111:PRO:CB	43:DI:112:LYS:HD2	2.49	0.42
44:DJ:90:UNK:O	44:DJ:91:UNK:C	2.67	0.42
47:DP:111:ARG:HG3	47:DP:111:ARG:HH11	1.85	0.42
49:DR:56:LYS:C	49:DR:58:GLY:N	2.77	0.42
50:DS:66:ALA:CA	50:DS:69:VAL:HG12	2.49	0.42
51:DT:26:ASP:HB3	51:DT:89:VAL:O	2.19	0.42
52:DU:88:ILE:HG23	53:DV:47:VAL:CG2	2.49	0.42
56:DY:23:ARG:O	56:DY:24:VAL:O	2.38	0.42
1:AA:9:G:H5'	5:AE:122:GLU:OE2	2.19	0.42
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	2.19	0.42
1:AA:423:G:H2'	1:AA:424:G:O4'	2.18	0.42
1:AA:448:A:N6	1:AA:487:A:H1'	2.34	0.42
1:AA:656:C:H2'	1:AA:657:G:O4'	2.19	0.42
1:AA:662:G:H2'	1:AA:663:A:H8	1.84	0.42
1:AA:741:G:H2'	1:AA:742:G:H8	1.85	0.42
1:AA:814:A:H2'	1:AA:816:A:H5"	2.02	0.42
1:AA:881:G:P	12:AL:12:ARG:HH22	2.43	0.42
1:AA:954:G:O2'	1:AA:955:U:H5'	2.18	0.42
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.19	0.42
1:AA:1287:A:H2	1:AA:1353:G:H1'	1.81	0.42
1:AA:1439:C:C5'	20:AT:38:LYS:HZ1	2.33	0.42
1:AA:1490:C:H2'	1:AA:1491:G:H8	1.85	0.42
4:AD:101:LEU:C	4:AD:103:ASN:N	2.78	0.42
7:AG:139:GLU:O	7:AG:142:GLU:N	2.52	0.42
8:AH:133:LEU:HD23	8:AH:134:ILE:N	2.35	0.42
9:AI:33:PHE:HE1	9:AI:37:PHE:CD2	2.37	0.42
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.34	0.42
11:AK:126:ARG:O	11:AK:127:LYS:C	2.62	0.42
13:AM:40:ASN:ND2	13:AM:42:ALA:HB3	2.27	0.42
16:AP:5:ARG:HB2	16:AP:67:THR:OG1	2.19	0.42
17:AQ:19:VAL:O	17:AQ:19:VAL:HG23	2.19	0.42
20:AT:73:HIS:O	20:AT:74:LYS:C	2.62	0.42
23:AW:29:A:OP2	23:AW:29:A:C8	2.73	0.42
23:AW:49:G:H2'	23:AW:49:G:N3	2.34	0.42
22:AY:19:G:C6	22:AY:59:G:N1	2.88	0.42
22:AY:23:A:N6	22:AY:48:G:H2'	2.34	0.42
22:AY:32:G:O6	22:AY:42:C:N3	2.52	0.42
22:AY:63:C:O4'	57:BZ:186:GLU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:63:ALA:O	26:B1:64:ALA:C	2.62	0.42
31:B6:24:GLU:HB3	31:B6:25:LYS:H	1.60	0.42
31:B6:39:TYR:O	31:B6:46:HIS:HA	2.20	0.42
31:B6:52:VAL:CG2	31:B6:53:LYS:N	2.81	0.42
31:B6:54:ILE:HG12	35:BA:2419:U:O2'	2.19	0.42
32:B7:15:THR:HG22	32:B7:16:HIS:CE1	2.53	0.42
35:BA:953:A:C2'	35:BA:954:G:H5'	2.49	0.42
35:BA:1014:U:C2'	35:BA:1015:G:C5'	2.90	0.42
35:BA:1386:C:OP2	35:BA:1396:U:H5	2.01	0.42
35:BA:1416:G:H1'	35:BA:1417:C:C6	2.54	0.42
35:BA:1509(B):A:H2'	35:BA:1510:G:C8	2.54	0.42
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.19	0.42
35:BA:2124:G:O2'	37:BC:41:THR:HB	2.20	0.42
36:BB:47:C:O2'	50:BS:93:LYS:HG2	2.19	0.42
37:BC:16:ASP:OD2	37:BC:19:LYS:HB2	2.19	0.42
38:BD:72:LYS:HE2	38:BD:101:GLU:OE1	2.19	0.42
38:BD:96:HIS:ND1	38:BD:102:LYS:HD3	2.35	0.42
38:BD:263:ARG:HB2	38:BD:263:ARG:HH11	1.83	0.42
39:BE:7:VAL:HG13	39:BE:27:LEU:HB3	2.01	0.42
40:BF:148:LEU:HD21	40:BF:191:ARG:NH1	2.34	0.42
40:BF:192:LEU:C	40:BF:192:LEU:HD23	2.44	0.42
43:BI:77:LEU:O	43:BI:141:LYS:CG	2.66	0.42
47:BP:125:VAL:O	47:BP:125:VAL:HG13	2.19	0.42
49:BR:77:ARG:O	49:BR:78:LYS:C	2.61	0.42
50:BS:54:LEU:HD11	50:BS:57:LYS:HE3	2.02	0.42
50:BS:89:ARG:CG	50:BS:89:ARG:NH1	2.82	0.42
51:BT:106:SER:C	51:BT:107:ASP:CG	2.87	0.42
52:BU:90:VAL:HG12	52:BU:91:ASP:N	2.34	0.42
57:BZ:114:GLY:O	57:BZ:177:PRO:HD3	2.20	0.42
57:BZ:115:GLY:C	57:BZ:116:VAL:HG23	2.44	0.42
1:CA:187:C:H2'	1:CA:188:C:C6	2.54	0.42
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	2.19	0.42
1:CA:423:G:H2'	1:CA:424:G:O4'	2.20	0.42
1:CA:596:C:O5'	1:CA:596:C:H6	2.01	0.42
1:CA:911:U:O2'	1:CA:912:C:H5'	2.19	0.42
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.18	0.42
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.55	0.42
1:CA:1222:G:O2'	1:CA:1223:C:H5'	2.20	0.42
1:CA:1308:U:OP2	13:CM:99:ARG:HD2	2.19	0.42
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.80	0.42
1:CA:1492:A:O2'	1:CA:1493:A:OP2	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:58:ILE:CG2	2:CB:222:ILE:HD11	2.48	0.42
3:CC:29:TYR:OH	14:CN:54:PRO:HD2	2.19	0.42
3:CC:59:ARG:HH11	3:CC:97:LYS:HZ2	1.67	0.42
3:CC:69:HIS:N	3:CC:69:HIS:HD2	2.15	0.42
3:CC:112:SER:O	3:CC:116:VAL:HG23	2.20	0.42
3:CC:121:ALA:CB	3:CC:187:ALA:HB3	2.49	0.42
4:CD:109:GLY:O	4:CD:111:ALA:N	2.52	0.42
5:CE:36:ASP:O	5:CE:37:ARG:CG	2.67	0.42
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	2.00	0.42
8:CH:38:ILE:C	8:CH:40:ALA:N	2.77	0.42
8:CH:84:ARG:HH11	8:CH:84:ARG:HG2	1.83	0.42
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.84	0.42
12:CL:27:LEU:HB2	12:CL:33:ARG:HD2	2.00	0.42
12:CL:75:HIS:C	12:CL:77:LEU:N	2.73	0.42
13:CM:15:VAL:O	13:CM:16:ASP:C	2.61	0.42
22:CV:10:G:N2	22:CV:27:C:C2	2.85	0.42
23:CW:15:G:H8	23:CW:16:U:C5	2.38	0.42
23:CW:20:G:H3'	23:CW:21:U:C5'	2.40	0.42
23:CW:40:A:OP2	23:CW:40:A:C4'	2.61	0.42
22:CY:11:C:C2	22:CY:12:U:C5	3.08	0.42
25:D0:27:GLU:OE1	35:DA:856:C:O2'	2.31	0.42
29:D4:1:MET:N	36:DB:44:G:OP1	2.52	0.42
31:D6:5:VAL:HG11	31:D6:7:ILE:HG22	2.00	0.42
31:D6:14:THR:O	31:D6:14:THR:HG23	2.19	0.42
35:DA:17:G:H4'	52:DU:25:TRP:CZ3	2.54	0.42
35:DA:146:G:H5'	35:DA:146:G:C8	2.53	0.42
35:DA:360:G:H2'	35:DA:361:G:O4'	2.19	0.42
35:DA:527:C:C5	35:DA:2779:U:H2'	2.55	0.42
35:DA:704:G:H1'	35:DA:726:G:N2	2.34	0.42
35:DA:861:A:C2	35:DA:917:A:C4	3.07	0.42
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.34	0.42
35:DA:1591:G:O2'	35:DA:1592:C:H5'	2.19	0.42
35:DA:2065:C:H2'	35:DA:2066:C:C6	2.54	0.42
35:DA:2538:C:O2'	35:DA:2539:C:H5'	2.19	0.42
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.50	0.42
37:DC:54:ARG:CB	37:DC:57:GLN:HB3	2.50	0.42
38:DD:109:ASP:OD2	38:DD:197:GLY:HA2	2.20	0.42
39:DE:101:ARG:HB2	39:DE:201:THR:CG2	2.48	0.42
40:DF:1:MET:O	40:DF:3:GLU:HG2	2.19	0.42
41:DG:37:VAL:HG23	41:DG:99:MET:SD	2.58	0.42
41:DG:123:ASN:HA	41:DG:125:PHE:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:170:ARG:NH2	41:DG:182:LYS:HE2	2.14	0.42
43:DI:77:LEU:O	43:DI:141:LYS:CG	2.67	0.42
47:DP:48:PRO:O	47:DP:51:PHE:N	2.49	0.42
47:DP:90:ARG:HD2	47:DP:91:PHE:HD1	1.83	0.42
47:DP:101:VAL:HG12	47:DP:107:LYS:N	2.34	0.42
50:DS:12:PHE:N	50:DS:12:PHE:CD1	2.87	0.42
50:DS:90:GLY:C	50:DS:92:TYR:N	2.67	0.42
51:DT:6:LEU:O	51:DT:10:VAL:HG23	2.19	0.42
51:DT:30:VAL:HG22	51:DT:84:GLN:HG3	2.01	0.42
53:DV:5:VAL:CG2	53:DV:6:LYS:N	2.83	0.42
54:DW:36:LEU:O	54:DW:37:ARG:C	2.62	0.42
56:DY:13:VAL:HG23	56:DY:73:ARG:C	2.44	0.42
56:DY:54:LYS:C	56:DY:56:PRO:CD	2.92	0.42
56:DY:66:PRO:O	56:DY:67:LEU:CB	2.67	0.42
1:AA:677:U:H3	1:AA:714:G:N2	2.18	0.42
1:AA:767:A:H2'	1:AA:768:A:O4'	2.19	0.42
1:AA:811:C:O2'	1:AA:901:A:N1	2.51	0.42
1:AA:960:U:O2	1:AA:960:U:H2'	2.18	0.42
1:AA:998:G:O2'	1:AA:999:C:H5'	2.20	0.42
1:AA:1056:U:H4'	3:AC:163:ALA:CB	2.50	0.42
1:AA:1103:C:C5'	2:AB:98:LEU:HD13	2.50	0.42
1:AA:1126:U:OP2	1:AA:1281:U:O2	2.38	0.42
2:AB:52:GLU:HG2	2:AB:56:ARG:NH1	2.34	0.42
3:AC:14:ILE:O	3:AC:15:THR:C	2.62	0.42
3:AC:107:GLN:O	3:AC:108:ASN:HB2	2.19	0.42
3:AC:172:ARG:C	3:AC:173:VAL:HG23	2.45	0.42
3:AC:188:LEU:N	3:AC:188:LEU:HD22	2.35	0.42
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	2.02	0.42
5:AE:93:PRO:HG2	8:AH:105:ARG:HH21	1.85	0.42
6:AF:10:LEU:N	6:AF:10:LEU:CD1	2.81	0.42
8:AH:25:ASP:O	8:AH:26:VAL:HB	2.19	0.42
8:AH:82:HIS:HB3	8:AH:138:TRP:CE2	2.55	0.42
15:AO:18:PHE:O	15:AO:20:GLY:N	2.52	0.42
19:AS:9:VAL:C	19:AS:10:PHE:CD1	2.97	0.42
22:AV:43:G:H2'	22:AV:44:A:O4'	2.20	0.42
22:AY:63:C:C2	57:BZ:186:GLU:CD	2.97	0.42
29:B4:33:VAL:HG21	41:BG:109:VAL:HG13	2.02	0.42
33:B8:33:ASN:H	33:B8:33:ASN:HD22	1.65	0.42
35:BA:128:C:H2'	35:BA:129:C:C6	2.54	0.42
35:BA:271(X):G:O2'	35:BA:271(Y):U:H5"	2.18	0.42
35:BA:848:G:H5'	35:BA:848:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1009:A:C5'	52:BU:59:ARG:HD3	2.49	0.42
35:BA:1162:G:H1'	53:BV:23:GLU:OE1	2.19	0.42
35:BA:2192:G:C3'	35:BA:2193:G:H5"	2.49	0.42
35:BA:2698:U:H2'	35:BA:2699:C:C6	2.54	0.42
36:BB:40:U:C3'	36:BB:41:U:H5"	2.46	0.42
36:BB:55:U:H2'	36:BB:56:G:C8	2.55	0.42
38:BD:32:SER:C	38:BD:36:PRO:HD3	2.44	0.42
38:BD:77:ALA:HB2	38:BD:97:TYR:CG	2.54	0.42
38:BD:85:ASP:OD1	38:BD:85:ASP:C	2.63	0.42
39:BE:111:ARG:HD2	39:BE:160:TYR:CE2	2.55	0.42
40:BF:32:LEU:HD23	40:BF:32:LEU:O	2.20	0.42
40:BF:175:THR:O	40:BF:176:LEU:HB2	2.19	0.42
41:BG:100:TRP:O	41:BG:104:GLU:N	2.45	0.42
42:BH:86:GLU:HB2	42:BH:131:VAL:O	2.18	0.42
42:BH:119:GLU:CG	42:BH:120:GLY:N	2.82	0.42
43:BI:74:ASN:C	43:BI:76:THR:H	2.24	0.42
44:BJ:71:UNK:O	44:BJ:72:UNK:O	2.38	0.42
45:BN:23:LEU:HD23	45:BN:23:LEU:O	2.19	0.42
45:BN:61:ARG:HD3	45:BN:61:ARG:HA	1.78	0.42
46:BO:91:LEU:N	46:BO:91:LEU:HD22	2.34	0.42
46:BO:104:ARG:NH1	46:BO:104:ARG:HB3	2.35	0.42
50:BS:96:GLY:C	50:BS:98:VAL:N	2.77	0.42
53:BV:19:LYS:HG3	53:BV:20:LEU:O	2.19	0.42
55:BX:48:LYS:O	55:BX:49:VAL:HG13	2.20	0.42
1:CA:63:C:N4	1:CA:104:G:H1	2.14	0.42
1:CA:185:A:O2'	1:CA:186:C:H5'	2.20	0.42
1:CA:189(C):C:O2'	1:CA:189(D):C:H5'	2.19	0.42
1:CA:472:A:H4'	16:CP:80:PHE:O	2.19	0.42
1:CA:583:A:H2'	1:CA:584:G:O4'	2.19	0.42
1:CA:963:G:HO2'	10:CJ:54:PHE:HZ	1.66	0.42
1:CA:975:A:H5'	1:CA:975:A:C8	2.53	0.42
1:CA:975:A:H61	10:CJ:48:THR:HG21	1.84	0.42
1:CA:1005:A:C2'	1:CA:1006:C:H5'	2.48	0.42
1:CA:1030(B):C:C2'	1:CA:1030(C):G:H5'	2.50	0.42
1:CA:1059:C:P	3:CC:199:LYS:NZ	2.92	0.42
1:CA:1068:G:OP2	1:CA:1068:G:H8	2.02	0.42
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.20	0.42
1:CA:1480:G:C5	1:CA:1481:U:C5	3.08	0.42
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.19	0.42
4:CD:101:LEU:C	4:CD:103:ASN:N	2.76	0.42
5:CE:107:ARG:O	5:CE:108:ALA:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:104:ARG:C	9:CI:105:ASP:N	2.78	0.42
12:CL:45:PRO:HG3	12:CL:53:ARG:NE	2.34	0.42
22:CV:19:G:O2'	22:CV:59:G:N2	2.53	0.42
23:CW:29:A:H8	23:CW:29:A:OP2	2.03	0.42
23:CW:57:U:C2	23:CW:59:G:N7	2.87	0.42
23:CW:70:G:C6	23:CW:71:G:C5	3.08	0.42
22:CY:4:C:O2'	22:CY:5:C:P	2.78	0.42
22:CY:75:A:O2'	22:CY:76:C:H5'	2.19	0.42
25:D0:41:ARG:O	25:D0:57:PHE:CD2	2.72	0.42
26:D1:95:LEU:HD12	26:D1:95:LEU:HA	1.85	0.42
27:D2:13:ALA:HA	27:D2:16:LEU:HG	2.01	0.42
29:D4:43:TYR:CD2	29:D4:44:THR:HG23	2.53	0.42
29:D4:55:ARG:O	29:D4:55:ARG:NE	2.53	0.42
30:D5:3:LYS:CD	35:DA:2613:U:H2'	2.50	0.42
30:D5:51:TYR:H	30:D5:55:ARG:HD3	1.85	0.42
35:DA:307:G:H21	35:DA:330:A:H62	1.68	0.42
35:DA:1133:U:H2'	35:DA:1137:G:OP1	2.19	0.42
35:DA:1656:C:O2'	35:DA:1657:C:H5'	2.18	0.42
35:DA:1771:C:C1'	35:DA:1786:A:H8	2.31	0.42
36:DB:92:C:O2'	36:DB:93:G:H5'	2.19	0.42
37:DC:51:ASP:H	37:DC:57:GLN:HE21	1.68	0.42
38:DD:30:GLU:CD	38:DD:63:ARG:NE	2.75	0.42
38:DD:67:PHE:CE2	38:DD:157:ARG:CZ	3.02	0.42
38:DD:80:ALA:HB3	38:DD:94:LEU:HD13	2.02	0.42
38:DD:110:GLY:O	38:DD:112:GLN:HG2	2.19	0.42
39:DE:65:GLY:C	39:DE:67:PHE:H	2.27	0.42
39:DE:120:TRP:CD2	39:DE:155:LYS:HD3	2.55	0.42
39:DE:134:ILE:HD12	39:DE:134:ILE:O	2.19	0.42
40:DF:154:VAL:HG22	40:DF:191:ARG:HB2	2.02	0.42
42:DH:7:LEU:CD2	42:DH:65:HIS:NE2	2.82	0.42
42:DH:139:GLN:O	42:DH:143:GLN:HB2	2.19	0.42
43:DI:77:LEU:O	43:DI:141:LYS:HG2	2.18	0.42
45:DN:5:VAL:O	45:DN:5:VAL:HG13	2.19	0.42
45:DN:23:LEU:HB2	45:DN:60:ILE:HG21	2.01	0.42
45:DN:56:ASN:HB2	45:DN:126:PRO:N	2.35	0.42
46:DO:80:ASP:OD2	51:DT:64:ARG:NH2	2.53	0.42
47:DP:7:ARG:N	47:DP:8:PRO:HD2	2.35	0.42
47:DP:100:LEU:O	47:DP:101:VAL:C	2.62	0.42
51:DT:14:TYR:N	51:DT:14:TYR:CD1	2.87	0.42
51:DT:57:PHE:O	51:DT:59:THR:HG22	2.20	0.42
52:DU:112:ARG:NH2	53:DV:46:VAL:HG11	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DX:21:PHE:O	55:DX:22:ALA:C	2.61	0.42
56:DY:39:VAL:O	56:DY:40:GLU:CD	2.63	0.42
57:DZ:112:ARG:O	57:DZ:112:ARG:CD	2.54	0.42
1:AA:18:C:H4'	1:AA:1078:U:O2	2.18	0.42
1:AA:295:C:H2'	1:AA:296:U:C6	2.55	0.42
1:AA:338:A:C6	1:AA:339:C:C4	3.07	0.42
1:AA:656:C:H2'	1:AA:657:G:H8	1.84	0.42
1:AA:933:G:O6	7:AG:3:ARG:NH2	2.53	0.42
1:AA:1227:A:OP2	13:AM:111:LYS:HE3	2.19	0.42
1:AA:1288:A:O4'	1:AA:1353:G:H4'	2.20	0.42
2:AB:42:ILE:HD11	2:AB:202:PRO:C	2.45	0.42
2:AB:44:LEU:O	2:AB:47:THR:HB	2.19	0.42
2:AB:70:PHE:CD2	2:AB:163:PHE:HB3	2.55	0.42
2:AB:84:GLU:HA	2:AB:87:ARG:HB3	2.02	0.42
2:AB:93:VAL:HG11	2:AB:97:TRP:HD1	1.85	0.42
2:AB:173:ALA:O	2:AB:176:GLU:N	2.53	0.42
2:AB:198:ASP:OD1	2:AB:198:ASP:N	2.51	0.42
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.44	0.42
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	2.01	0.42
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.19	0.42
4:AD:149:ALA:HB3	4:AD:152:SER:OG	2.19	0.42
4:AD:177:ASP:C	4:AD:179:GLU:N	2.78	0.42
5:AE:71:LEU:HD22	5:AE:114:GLY:O	2.19	0.42
6:AF:61:LEU:O	6:AF:62:TRP:HB2	2.20	0.42
6:AF:97:PHE:HD2	18:AR:31:LEU:HD21	1.84	0.42
9:AI:48:GLU:OE2	9:AI:51:ARG:HB2	2.19	0.42
10:AJ:49:VAL:CG2	10:AJ:50:ILE:N	2.83	0.42
15:AO:70:LEU:O	15:AO:70:LEU:HD23	2.20	0.42
23:AW:19:G:C4	23:AW:59:G:C2	3.08	0.42
23:AW:68:A:C4	23:AW:69:G:C8	3.02	0.42
22:AY:3:G:N2	22:AY:73:C:C2	2.87	0.42
26:B1:29:GLY:C	26:B1:30:VAL:CG2	2.92	0.42
29:B4:55:ARG:NE	29:B4:55:ARG:O	2.52	0.42
31:B6:7:ILE:CG1	31:B6:29:ASN:HD21	2.28	0.42
33:B8:39:LYS:O	33:B8:43:GLN:HG3	2.19	0.42
35:BA:970:C:H2'	35:BA:971:C:C6	2.54	0.42
35:BA:1885:A:H5'	35:BA:1885:A:C8	2.50	0.42
35:BA:2723:C:O3'	49:BR:2:ARG:NH2	2.53	0.42
35:BA:2787:C:H1'	39:BE:61:ARG:HG3	2.02	0.42
36:BB:73:A:H2'	36:BB:74:U:H5'	2.01	0.42
38:BD:62:TYR:HA	38:BD:87:ASN:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:4:ILE:HG12	39:BE:5:LEU:N	2.34	0.42
40:BF:110:LEU:HD13	40:BF:206:ILE:HD11	2.01	0.42
41:BG:146:TYR:O	41:BG:148:MET:N	2.52	0.42
42:BH:114:VAL:HG23	42:BH:114:VAL:O	2.20	0.42
42:BH:158:HIS:CE1	42:BH:168:PRO:HB2	2.55	0.42
45:BN:33:LEU:O	45:BN:35:ARG:O	2.38	0.42
46:BO:14:THR:HG22	46:BO:95:GLY:N	2.35	0.42
46:BO:37:ASP:O	46:BO:61:VAL:HA	2.20	0.42
48:BQ:130:LYS:HZ2	57:BZ:80:ARG:NH1	2.16	0.42
51:BT:30:VAL:HG22	51:BT:84:GLN:O	2.18	0.42
53:BV:60:GLU:O	53:BV:62:LEU:HD22	2.18	0.42
54:BW:3:ALA:CB	54:BW:58:ALA:HB2	2.50	0.42
56:BY:13:VAL:HG11	56:BY:28:LYS:HD3	2.01	0.42
56:BY:52:SER:O	56:BY:53:PRO:C	2.62	0.42
57:BZ:48:PHE:HA	57:BZ:51:ALA:HB3	2.02	0.42
57:BZ:85:HIS:HD1	57:BZ:86:VAL:N	2.18	0.42
1:CA:37:U:OP2	12:CL:123:LYS:HD3	2.20	0.42
1:CA:41:G:H2'	1:CA:42:G:H8	1.84	0.42
1:CA:221:C:H2'	1:CA:222:U:C6	2.54	0.42
1:CA:443:C:H2'	1:CA:444:C:H6	1.84	0.42
1:CA:622:A:C8	1:CA:623:C:C5	3.08	0.42
1:CA:984:C:H2'	1:CA:985:C:H6	1.82	0.42
1:CA:1019:C:H2'	1:CA:1020:U:O4'	2.19	0.42
1:CA:1032:G:H2'	1:CA:1033:G:C8	2.55	0.42
1:CA:1165:C:H2'	1:CA:1166:G:H8	1.85	0.42
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.54	0.42
1:CA:1423:G:H5'	46:DO:49:ARG:HH22	1.83	0.42
1:CA:1490:C:H2'	1:CA:1491:G:H8	1.84	0.42
2:CB:103:THR:HG23	2:CB:176:GLU:OE1	2.19	0.42
3:CC:35:GLU:OE2	3:CC:97:LYS:HD2	2.19	0.42
7:CG:15:ASP:CG	7:CG:18:TYR:H	2.27	0.42
7:CG:41:ARG:HH11	7:CG:41:ARG:HG3	1.84	0.42
8:CH:64:LYS:HD2	8:CH:79:VAL:HG21	2.01	0.42
13:CM:60:VAL:HG13	13:CM:64:TRP:HE1	1.85	0.42
16:CP:4:ILE:HD13	16:CP:64:ALA:O	2.19	0.42
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.81	0.42
16:CP:68:ASP:O	16:CP:70:ALA:N	2.52	0.42
23:CW:69:G:N2	23:CW:70:G:H1'	2.34	0.42
22:CY:55:G:C5'	48:DQ:56:ARG:HH22	2.23	0.42
25:D0:51:VAL:HG21	25:D0:79:VAL:O	2.19	0.42
26:D1:82:LEU:C	26:D1:83:GLU:CD	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:54:VAL:HG12	28:D3:55:ARG:N	2.34	0.42
29:D4:2:LYS:NZ	36:DB:44:G:C5	2.87	0.42
29:D4:43:TYR:O	29:D4:44:THR:O	2.37	0.42
30:D5:6:VAL:HG11	35:DA:2016:U:O4'	2.20	0.42
31:D6:39:TYR:O	31:D6:46:HIS:HA	2.19	0.42
35:DA:29:U:O5'	35:DA:29:U:H6	2.02	0.42
35:DA:71:A:C2	55:DX:31:HIS:CE1	3.07	0.42
35:DA:394:A:C2'	35:DA:395:U:H5'	2.50	0.42
35:DA:558:G:O2'	35:DA:559:G:H5'	2.20	0.42
35:DA:755:C:H2'	35:DA:756:C:H6	1.84	0.42
35:DA:946:G:O2'	35:DA:947:G:H5'	2.19	0.42
35:DA:1242:A:C2	47:DP:8:PRO:HG3	2.54	0.42
35:DA:1270:C:H5"	35:DA:1271:G:C5'	2.49	0.42
35:DA:1336:A:O2'	35:DA:1337:G:H5'	2.20	0.42
35:DA:1412:A:H2'	35:DA:1413:G:C8	2.54	0.42
35:DA:1803:A:HO2'	38:DD:259:THR:HG21	1.85	0.42
35:DA:2230:G:H2'	35:DA:2231:C:H6	1.84	0.42
36:DB:16:G:O2'	36:DB:17:C:H5'	2.19	0.42
37:DC:202:PRO:HB2	37:DC:205:ALA:HB2	2.02	0.42
38:DD:25:THR:CG2	38:DD:26:LYS:N	2.83	0.42
38:DD:46:GLN:N	38:DD:46:GLN:CD	2.78	0.42
38:DD:72:LYS:HE2	38:DD:101:GLU:OE1	2.19	0.42
39:DE:7:VAL:O	39:DE:8:LYS:C	2.62	0.42
39:DE:7:VAL:HG13	39:DE:27:LEU:HB3	2.01	0.42
39:DE:48:GLN:CD	39:DE:78:LEU:HD13	2.45	0.42
41:DG:21:ARG:HG2	41:DG:21:ARG:O	2.19	0.42
41:DG:151:ALA:HB3	41:DG:153:ARG:HH21	1.85	0.42
42:DH:26:VAL:HG21	42:DH:75:ALA:CB	2.49	0.42
42:DH:109:PHE:C	42:DH:111:HIS:H	2.25	0.42
43:DI:5:LEU:HD11	43:DI:19:VAL:CG1	2.49	0.42
44:DJ:39:UNK:HA	44:DJ:43:UNK:CB	2.49	0.42
49:DR:28:LEU:HD12	49:DR:48:VAL:HG21	2.02	0.42
49:DR:74:LYS:C	49:DR:76:VAL:N	2.76	0.42
50:DS:89:ARG:O	50:DS:90:GLY:O	2.38	0.42
51:DT:34:VAL:HG22	51:DT:39:ARG:HA	2.02	0.42
53:DV:21:ARG:N	53:DV:21:ARG:CD	2.78	0.42
53:DV:79:VAL:O	53:DV:79:VAL:CG1	2.64	0.42
55:DX:55:ASN:O	55:DX:79:ALA:HA	2.19	0.42
57:DZ:57:ILE:HG22	57:DZ:59:LEU:HD23	2.01	0.42
57:DZ:108:PRO:HG2	57:DZ:111:VAL:H	1.84	0.42
1:AA:68:G:O4'	1:AA:171:A:H1'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:189(K):U:H2'	1:AA:189(L):G:H8	1.85	0.42
1:AA:217:C:O2'	1:AA:218:C:H5'	2.20	0.42
1:AA:1055:A:OP1	1:AA:1055:A:C8	2.72	0.42
1:AA:1129:C:H5"	1:AA:1139:G:C6	2.55	0.42
2:AB:95:GLN:HE21	2:AB:147:LYS:HG2	1.85	0.42
2:AB:134:GLU:O	2:AB:138:LEU:HB2	2.20	0.42
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.34	0.42
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.83	0.42
4:AD:156:GLU:O	4:AD:157:LEU:C	2.62	0.42
6:AF:7:ASN:O	6:AF:8:ILE:CG1	2.68	0.42
8:AH:30:ARG:NH1	8:AH:30:ARG:CB	2.83	0.42
13:AM:89:GLY:O	13:AM:92:HIS:N	2.50	0.42
22:AV:6:C:C4	22:AV:70:G:N1	2.88	0.42
23:AW:15:G:C8	23:AW:16:U:C5	3.08	0.42
22:AY:3:G:H8	22:AY:3:G:OP2	2.02	0.42
22:AY:11:C:H42	22:AY:47:G:H22	1.68	0.42
31:B6:37:ARG:NH1	31:B6:39:TYR:CE2	2.87	0.42
31:B6:53:LYS:HD2	31:B6:53:LYS:HA	1.81	0.42
32:B7:25:PRO:HA	32:B7:28:ARG:CZ	2.50	0.42
35:BA:271(A):A:H1'	35:BA:365:C:O4'	2.19	0.42
35:BA:626:U:H5'	35:BA:627:A:H5'	2.02	0.42
35:BA:845:G:OP2	35:BA:845:G:C8	2.67	0.42
35:BA:1030:G:OP2	48:BQ:128:LYS:NZ	2.53	0.42
35:BA:1204:A:H2	35:BA:1241:A:N1	2.17	0.42
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.54	0.42
35:BA:1771:C:C1'	35:BA:1786:A:H8	2.33	0.42
35:BA:1775:U:C2'	35:BA:1776:G:H5'	2.50	0.42
35:BA:2027:G:O2'	35:BA:2028:U:H5'	2.20	0.42
35:BA:2124:G:N3	37:BC:218:THR:HG23	2.34	0.42
35:BA:2531:A:H2	35:BA:2658:C:O2	2.01	0.42
36:BB:83:G:C2'	36:BB:84:C:H5'	2.50	0.42
37:BC:211:ARG:HG3	37:BC:211:ARG:HH11	1.84	0.42
38:BD:108:PRO:HG2	38:BD:111:LEU:HD23	2.00	0.42
38:BD:221:VAL:HG22	38:BD:226:MET:CE	2.40	0.42
39:BE:9:VAL:CG2	39:BE:25:VAL:HB	2.44	0.42
39:BE:102:VAL:HB	39:BE:199:ARG:O	2.19	0.42
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.91	0.42
40:BF:107:LYS:O	40:BF:108:LYS:C	2.62	0.42
40:BF:179:GLU:OE1	40:BF:179:GLU:N	2.52	0.42
41:BG:5:VAL:HG12	41:BG:104:GLU:OE2	2.19	0.42
41:BG:114:ILE:O	41:BG:115:ARG:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:43:VAL:CG1	42:BH:52:VAL:HG22	2.28	0.42
47:BP:59:LEU:CB	47:BP:61:ARG:NH1	2.82	0.42
47:BP:88:LEU:C	47:BP:90:ARG:N	2.74	0.42
48:BQ:17:LEU:HD22	48:BQ:96:VAL:HG13	2.00	0.42
50:BS:61:ASN:HB3	50:BS:64:GLU:HB2	2.01	0.42
51:BT:3:ARG:O	51:BT:4:GLY:C	2.62	0.42
51:BT:34:VAL:HG22	51:BT:39:ARG:HA	2.01	0.42
57:BZ:121:HIS:C	57:BZ:123:ASP:N	2.78	0.42
1:CA:457:C:N4	1:CA:475:G:H1	2.17	0.42
1:CA:607:A:O2'	1:CA:608:A:H5'	2.20	0.42
1:CA:818:G:H3'	1:CA:819:A:C5'	2.50	0.42
1:CA:854:G:H3'	1:CA:871:U:O4	2.19	0.42
1:CA:912:C:O2'	1:CA:913:A:H5'	2.18	0.42
1:CA:1057:G:C5	1:CA:1204:A:C2	3.07	0.42
1:CA:1113:C:H2'	1:CA:1114:C:C6	2.54	0.42
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.20	0.42
1:CA:1442:G:C6	1:CA:1442(B):A:H2	2.38	0.42
2:CB:47:THR:HA	2:CB:202:PRO:CG	2.49	0.42
2:CB:51:LEU:O	2:CB:55:PHE:HD2	2.02	0.42
2:CB:121:LEU:HD23	2:CB:124:SER:HB3	2.01	0.42
2:CB:163:PHE:HA	2:CB:185:ILE:O	2.20	0.42
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.20	0.42
8:CH:20:TYR:HD1	8:CH:65:TYR:CD2	2.38	0.42
8:CH:31:PHE:O	8:CH:34:GLU:HB2	2.18	0.42
13:CM:68:GLY:CA	13:CM:71:ARG:HB3	2.50	0.42
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	2.00	0.42
20:CT:10:LEU:HD12	20:CT:11:SER:N	2.33	0.42
20:CT:10:LEU:O	20:CT:13:LEU:HD13	2.19	0.42
21:CU:25:LYS:CG	21:CU:26:LYS:N	2.82	0.42
22:CV:69:G:H2'	22:CV:70:G:C8	2.55	0.42
23:CW:26:G:C2'	23:CW:27:C:C6	2.99	0.42
23:CW:44:A:C2	23:CW:45:U:N1	2.87	0.42
23:CW:51:G:C2'	23:CW:52:C:H5'	2.49	0.42
23:CW:66:G:H2'	23:CW:67:C:O4'	2.19	0.42
22:CY:70:G:C6	22:CY:71:G:C5	3.07	0.42
27:D2:28:LYS:HB3	27:D2:57:ILE:CD1	2.47	0.42
28:D3:1:MET:C	28:D3:3:ARG:N	2.77	0.42
29:D4:2:LYS:HG2	36:DB:44:G:OP2	2.20	0.42
35:DA:769:G:O2'	35:DA:770:G:H5'	2.20	0.42
35:DA:1053:C:O2	35:DA:1053:C:H2'	2.20	0.42
35:DA:1719:G:C6	35:DA:1720:U:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2033:A:O2'	35:DA:2034:U:O5'	2.36	0.42
35:DA:2166:G:H2'	35:DA:2167:U:C6	2.55	0.42
35:DA:2360:A:O2'	35:DA:2361:A:C5'	2.67	0.42
35:DA:2584:U:H2'	35:DA:2585:U:H2'	2.01	0.42
35:DA:2584:U:O2	35:DA:2584:U:O5'	2.37	0.42
35:DA:2747:G:H4'	42:DH:67:LEU:HD12	2.01	0.42
35:DA:2796:U:H3'	35:DA:2799:C:C5'	2.50	0.42
36:DB:87:G:H3'	36:DB:88:C:H5"	2.00	0.42
37:DC:34:ALA:CA	37:DC:40:GLU:HG3	2.50	0.42
38:DD:120:GLY:O	38:DD:131:LEU:HB3	2.19	0.42
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.51	0.42
39:DE:151:TYR:O	39:DE:154:LYS:HB2	2.20	0.42
40:DF:135:LYS:O	40:DF:136:THR:C	2.61	0.42
41:DG:12:TYR:O	41:DG:16:ARG:HB2	2.19	0.42
41:DG:63:ILE:HG22	41:DG:143:GLU:HG2	2.01	0.42
46:DO:91:LEU:N	46:DO:91:LEU:HD22	2.35	0.42
48:DQ:32:TYR:CE1	48:DQ:133:ARG:NH1	2.87	0.42
48:DQ:63:LYS:HE3	48:DQ:65:PHE:HE1	1.84	0.42
48:DQ:134:ARG:HG3	48:DQ:134:ARG:HH11	1.84	0.42
50:DS:86:ALA:HA	50:DS:106:ARG:HG2	2.01	0.42
50:DS:89:ARG:CB	50:DS:92:TYR:HB3	2.49	0.42
52:DU:66:ASN:HB2	52:DU:76:TYR:HB2	2.01	0.42
54:DW:29:LEU:O	54:DW:33:ARG:HG3	2.18	0.42
57:DZ:39:VAL:HG23	57:DZ:40:ASP:H	1.84	0.42
57:DZ:149:SER:HB3	57:DZ:173:ALA:HA	2.02	0.42
1:AA:62:U:H5"	1:AA:385:C:O2'	2.19	0.42
1:AA:104:G:C2	1:AA:105:G:C5	3.08	0.42
1:AA:184:G:C4'	1:AA:224:C:H4'	2.49	0.42
1:AA:794:A:H4'	1:AA:1521:G:O2'	2.20	0.42
1:AA:895:G:H2'	1:AA:896:C:C6	2.54	0.42
1:AA:1005:A:H5'	1:AA:1037:C:O2	2.20	0.42
1:AA:1028:C:C2'	1:AA:1029:C:H5'	2.50	0.42
1:AA:1052:U:O2'	1:AA:1055:A:OP2	2.33	0.42
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.55	0.42
1:AA:1434:A:O5'	1:AA:1434:A:H8	2.03	0.42
2:AB:185:ILE:HB	2:AB:199:TYR:O	2.19	0.42
3:AC:16:ARG:HB2	3:AC:16:ARG:CZ	2.49	0.42
3:AC:121:ALA:CB	3:AC:187:ALA:HB3	2.49	0.42
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.67	0.42
4:AD:17:VAL:HG23	4:AD:63:LYS:HZ1	1.85	0.42
5:AE:78:HIS:HE1	5:AE:143:ARG:H	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:20:ASP:CB	7:AG:23:VAL:HG23	2.41	0.42
10:AJ:50:ILE:HD11	14:AN:41:ARG:HD3	2.02	0.42
11:AK:79:SER:HB2	11:AK:106:LYS:HG3	2.02	0.42
13:AM:3:ARG:HH22	41:BG:113:ARG:HB2	1.84	0.42
17:AQ:92:ARG:O	17:AQ:95:TYR:CD2	2.72	0.42
18:AR:85:LEU:CD2	18:AR:88:LYS:HG2	2.49	0.42
20:AT:38:LYS:HA	20:AT:41:ILE:CG1	2.50	0.42
21:AU:5:ASP:C	21:AU:7:ARG:H	2.28	0.42
22:AV:4:C:C6	22:AV:5:C:C5	3.07	0.42
23:AW:19:G:C2	23:AW:59:G:C4	3.07	0.42
24:AX:15:A:H5'	24:AX:16:A:OP1	2.20	0.42
22:AY:8:U:C2	22:AY:15:G:O6	2.72	0.42
22:AY:11:C:N1	22:AY:12:U:C5	2.88	0.42
22:AY:69:G:C6	22:AY:70:G:C6	3.08	0.42
26:B1:49:VAL:HB	26:B1:60:PHE:HB2	2.02	0.42
29:B4:6:HIS:O	29:B4:8:LYS:N	2.51	0.42
30:B5:25:LEU:HD11	54:BW:41:LYS:HE3	2.01	0.42
31:B6:7:ILE:CG1	31:B6:29:ASN:ND2	2.82	0.42
31:B6:14:THR:CG2	31:B6:52:VAL:HG11	2.50	0.42
35:BA:27:G:N2	35:BA:512:G:H2'	2.34	0.42
35:BA:39:C:O2	40:BF:46:ARG:NH2	2.49	0.42
35:BA:833:U:O2	47:BP:55:ARG:NH2	2.53	0.42
35:BA:848:G:N3	35:BA:933:A:H1'	2.34	0.42
35:BA:1112:G:O2'	35:BA:1113:U:O4'	2.37	0.42
35:BA:1826:G:C4'	38:BD:242:ARG:HH21	2.24	0.42
35:BA:2809:A:H62	35:BA:2891:G:H2'	1.85	0.42
36:BB:87:G:H3'	36:BB:88:C:H5"	2.01	0.42
37:BC:45:HIS:CE1	37:BC:173:HIS:HD1	2.38	0.42
37:BC:185:LYS:HA	37:BC:188:ASP:OD2	2.20	0.42
38:BD:65:ILE:HD13	38:BD:65:ILE:H	1.84	0.42
38:BD:142:VAL:HG21	38:BD:191:ALA:CB	2.48	0.42
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.82	0.42
38:BD:197:GLY:O	38:BD:198:ASN:CB	2.68	0.42
38:BD:215:LEU:HD12	38:BD:217:ARG:HH21	1.85	0.42
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	2.01	0.42
40:BF:88:VAL:HG23	40:BF:89:VAL:N	2.34	0.42
43:BI:114:LEU:HD23	43:BI:130:TYR:CE1	2.54	0.42
45:BN:112:LEU:O	45:BN:115:ARG:HB3	2.18	0.42
48:BQ:27:VAL:O	48:BQ:28:ALA:HB3	2.20	0.42
48:BQ:134:ARG:NH2	57:BZ:122:ARG:HD2	2.35	0.42
51:BT:88:ILE:CG2	51:BT:89:VAL:H	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:92:ARG:HD3	52:BU:95:LEU:HD12	2.02	0.42
54:BW:36:LEU:CD1	54:BW:48:ALA:HA	2.50	0.42
54:BW:61:ASN:N	54:BW:61:ASN:HD22	2.17	0.42
55:BX:54:VAL:HG22	55:BX:81:VAL:HG12	2.02	0.42
56:BY:81:LYS:CD	56:BY:96:ILE:HG22	2.46	0.42
57:BZ:150:LEU:H	57:BZ:150:LEU:HD23	1.85	0.42
57:BZ:172:ALA:O	57:BZ:173:ALA:HB2	2.19	0.42
1:CA:136:C:C5'	16:CP:1:MET:HE3	2.48	0.42
1:CA:160:A:C1'	1:CA:344:A:C5	3.01	0.42
1:CA:226:G:O2'	1:CA:227:G:H5'	2.19	0.42
1:CA:522:C:O2'	1:CA:523:A:H5'	2.20	0.42
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.53	0.42
1:CA:1382:C:H2'	1:CA:1383:C:H6	1.85	0.42
1:CA:1466:C:C2'	1:CA:1467:G:H5'	2.50	0.42
1:CA:1494:G:H21	35:DA:1912:A:H1'	1.84	0.42
2:CB:15:VAL:C	2:CB:16:HIS:ND1	2.78	0.42
3:CC:20:SER:HB2	3:CC:40:ARG:HH21	1.81	0.42
3:CC:57:ILE:HG22	3:CC:58:GLU:N	2.33	0.42
4:CD:163:GLU:C	4:CD:165:MET:N	2.77	0.42
5:CE:150:ARG:NH1	5:CE:150:ARG:CB	2.82	0.42
6:CF:86:ARG:O	6:CF:87:ARG:HG2	2.20	0.42
7:CG:54:THR:O	7:CG:54:THR:HG23	2.19	0.42
8:CH:8:ASP:O	8:CH:9:MET:C	2.62	0.42
10:CJ:3:LYS:NZ	10:CJ:75:ILE:O	2.53	0.42
11:CK:37:GLY:O	11:CK:38:ASN:C	2.63	0.42
12:CL:101:VAL:HG12	12:CL:104:VAL:CG2	2.50	0.42
13:CM:40:ASN:ND2	13:CM:42:ALA:HB3	2.30	0.42
13:CM:86:CYS:C	13:CM:88:ARG:N	2.78	0.42
17:CQ:62:SER:OG	17:CQ:72:ARG:HG3	2.20	0.42
19:CS:9:VAL:C	19:CS:10:PHE:CD1	2.98	0.42
19:CS:19:VAL:O	19:CS:23:ASN:ND2	2.52	0.42
22:CV:70:G:N3	22:CV:71:G:C8	2.88	0.42
23:CW:20:G:C5	23:CW:59:G:C2	3.07	0.42
23:CW:54:G:C2	23:CW:55:G:C8	3.08	0.42
22:CY:4:C:N3	22:CY:72:C:H5	2.18	0.42
30:D5:34:PRO:O	30:D5:35:GLU:HG2	2.20	0.42
30:D5:35:GLU:O	30:D5:36:CYS:HB3	2.20	0.42
30:D5:47:PRO:O	30:D5:49:CYS:N	2.49	0.42
33:D8:41:ILE:HD13	35:DA:2419:U:OP1	2.20	0.42
35:DA:8:A:H2	35:DA:2896:C:O2	2.03	0.42
35:DA:251:A:C5	35:DA:252:G:H1'	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:299:A:N1	35:DA:322:A:O2'	2.47	0.42
35:DA:314:A:H2'	35:DA:315:G:H8	1.85	0.42
35:DA:404:C:C3'	35:DA:405:U:H5'	2.48	0.42
35:DA:773:U:H4'	38:DD:47:GLY:CA	2.50	0.42
35:DA:814:C:O2'	35:DA:815:C:H5'	2.19	0.42
35:DA:948:G:OP1	35:DA:962:G:OP1	2.38	0.42
35:DA:1469:A:H2'	35:DA:1470:G:O4'	2.20	0.42
35:DA:1532:C:H2'	35:DA:1533:G:C5'	2.50	0.42
35:DA:1879:C:H2'	35:DA:1880:C:O4'	2.19	0.42
35:DA:1884:A:C2'	35:DA:1885:A:C5'	2.82	0.42
36:DB:7:G:H21	50:DS:38:GLN:HE22	1.68	0.42
37:DC:26:ALA:C	37:DC:28:ARG:H	2.27	0.42
37:DC:53:ARG:HD3	37:DC:53:ARG:N	2.24	0.42
38:DD:16:MET:HB2	38:DD:207:GLY:HA3	2.01	0.42
38:DD:18:VAL:HG12	38:DD:19:ALA:O	2.19	0.42
39:DE:111:ARG:HG2	49:DR:2:ARG:NH1	2.35	0.42
40:DF:21:ALA:O	40:DF:23:ASP:N	2.52	0.42
41:DG:67:LYS:O	41:DG:67:LYS:HD2	2.19	0.42
41:DG:91:ARG:C	41:DG:91:ARG:CD	2.90	0.42
42:DH:159:GLU:O	42:DH:160:LYS:O	2.38	0.42
42:DH:170:ARG:H	42:DH:170:ARG:CD	2.29	0.42
43:DI:101:LEU:HG	43:DI:107:VAL:HG11	2.02	0.42
46:DO:110:GLY:HA2	46:DO:112:MET:HE2	2.02	0.42
50:DS:49:VAL:CG2	50:DS:80:LEU:HD12	2.50	0.42
51:DT:23:ARG:HG2	51:DT:120:ARG:HH12	1.80	0.42
52:DU:98:LEU:O	52:DU:100:VAL:N	2.52	0.42
53:DV:18:LEU:HD12	53:DV:18:LEU:N	2.35	0.42
57:DZ:146:ILE:H	57:DZ:146:ILE:HG12	1.65	0.42
1:AA:108:G:C2	1:AA:109:A:C2	3.08	0.42
1:AA:583:A:H2'	1:AA:584:G:O4'	2.20	0.42
1:AA:625:G:H2'	1:AA:626:U:H6	1.84	0.42
3:AC:135:LYS:HD2	3:AC:135:LYS:HA	1.92	0.42
4:AD:74:GLN:HA	4:AD:77:ASN:ND2	2.31	0.42
4:AD:98:GLU:OE2	4:AD:103:ASN:ND2	2.51	0.42
9:AI:83:ARG:C	9:AI:86:VAL:HG12	2.45	0.42
10:AJ:3:LYS:NZ	10:AJ:75:ILE:O	2.53	0.42
10:AJ:4:ILE:N	10:AJ:4:ILE:CD1	2.82	0.42
10:AJ:21:GLN:O	10:AJ:25:GLU:HG3	2.20	0.42
10:AJ:34:VAL:HG13	10:AJ:74:ILE:HA	2.02	0.42
12:AL:8:ASN:HD22	17:AQ:34:LYS:HE2	1.83	0.42
17:AQ:51:TYR:CD1	17:AQ:51:TYR:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:75:ARG:HH12	17:AQ:77:VAL:HG22	1.85	0.42
18:AR:57:GLY:O	18:AR:58:LEU:C	2.60	0.42
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.72	0.42
19:AS:46:GLY:HA2	19:AS:61:TYR:HE1	1.85	0.42
22:AV:5:C:O2	22:AV:71:G:N3	2.52	0.42
22:AY:44:A:H2'	22:AY:45:U:O4'	2.20	0.42
22:AY:56:U:C2'	57:BZ:182:LYS:O	2.68	0.42
22:AY:58:C:OP2	57:BZ:182:LYS:CD	2.68	0.42
27:B2:68:ARG:NH1	27:B2:68:ARG:HG3	2.34	0.42
29:B4:43:TYR:O	29:B4:44:THR:O	2.37	0.42
31:B6:12:GLU:CG	31:B6:23:THR:HG22	2.36	0.42
33:B8:11:LYS:O	47:BP:65:ARG:HD3	2.20	0.42
35:BA:272(B):G:O2'	35:BA:272(C):G:C5'	2.68	0.42
35:BA:708:C:O2	35:BA:708:C:H2'	2.19	0.42
35:BA:1010:A:N3	35:BA:1153:C:H1'	2.34	0.42
35:BA:1112:G:O2'	35:BA:1113:U:C6	2.72	0.42
35:BA:1140:C:OP1	45:BN:23:LEU:O	2.37	0.42
35:BA:1375:C:O2'	35:BA:1376:C:H5'	2.20	0.42
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.55	0.42
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.85	0.42
35:BA:2166:G:H2'	35:BA:2167:U:C6	2.55	0.42
35:BA:2299:G:N1	35:BA:2318:G:C8	2.88	0.42
35:BA:2393:A:C2'	35:BA:2394:C:H5'	2.49	0.42
38:BD:25:THR:O	38:BD:27:THR:HG22	2.20	0.42
41:BG:53:LEU:HD13	41:BG:53:LEU:HA	1.78	0.42
41:BG:91:ARG:HD2	41:BG:92:VAL:CA	2.49	0.42
41:BG:95:ARG:HG2	41:BG:95:ARG:NH1	2.34	0.42
41:BG:104:GLU:HA	41:BG:104:GLU:OE1	2.19	0.42
41:BG:170:ARG:HG2	41:BG:170:ARG:NH1	2.34	0.42
43:BI:77:LEU:HD21	43:BI:79:ILE:CG1	2.50	0.42
43:BI:79:ILE:HA	43:BI:80:PRO:HD2	1.97	0.42
44:BJ:126:UNK:O	44:BJ:130:UNK:CB	2.67	0.42
45:BN:57:ALA:O	45:BN:58:ASP:C	2.63	0.42
47:BP:77:ARG:HB2	47:BP:78:PRO:HD2	2.02	0.42
48:BQ:35:VAL:HG23	48:BQ:100:GLY:O	2.20	0.42
48:BQ:135:ASP:CB	57:BZ:49:ARG:NH1	2.83	0.42
49:BR:103:ARG:NH1	49:BR:110:PRO:HD3	2.34	0.42
51:BT:50:ILE:HD11	51:BT:102:ILE:HD11	2.01	0.42
51:BT:127:ALA:O	51:BT:129:ARG:N	2.52	0.42
53:BV:3:ALA:HA	53:BV:40:LEU:O	2.19	0.42
56:BY:81:LYS:CD	56:BY:97:ARG:O	2.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:171:A:H2'	1:CA:172:A:C8	2.55	0.42
1:CA:235:C:H1'	17:CQ:61:GLU:OE2	2.20	0.42
1:CA:532:A:C2	1:CA:1207:G:C4'	3.03	0.42
1:CA:767:A:H2'	1:CA:768:A:O4'	2.20	0.42
1:CA:865:A:H5'	1:CA:1078:U:C5	2.55	0.42
1:CA:1513:A:C4	1:CA:1514:C:C5	3.08	0.42
1:CA:1522:U:O2	1:CA:1523:G:C8	2.72	0.42
3:CC:30:ARG:HD2	14:CN:38:GLY:HA3	2.02	0.42
5:CE:51:VAL:O	5:CE:54:ALA:HB3	2.20	0.42
9:CI:33:PHE:C	9:CI:35:GLU:H	2.28	0.42
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.27	0.42
11:CK:92:GLU:OE2	11:CK:95:ILE:HD12	2.20	0.42
17:CQ:65:ILE:O	17:CQ:66:SER:HB3	2.20	0.42
18:CR:68:LYS:NZ	18:CR:71:LYS:HZ2	2.17	0.42
19:CS:16:LEU:H	19:CS:16:LEU:CD1	2.20	0.42
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	2.00	0.42
20:CT:61:SER:O	20:CT:62:LEU:C	2.63	0.42
22:CV:5:C:O2	22:CV:71:G:C2	2.73	0.42
22:CV:13:U:N3	22:CV:25:A:C6	2.88	0.42
22:CV:57:U:O2	22:CV:59:G:C8	2.72	0.42
22:CY:26:G:C5	22:CY:27:C:C4	3.08	0.42
22:CY:61:A:H2'	22:CY:62:U:C5'	2.39	0.42
22:CY:67:C:H2'	22:CY:68:A:H5'	2.00	0.42
25:D0:55:ARG:HG3	35:DA:2365:G:OP1	2.19	0.42
27:D2:65:ASN:C	27:D2:67:LYS:H	2.28	0.42
29:D4:19:GLY:O	29:D4:20:ASN:C	2.62	0.42
31:D6:27:LYS:HE2	31:D6:29:ASN:OD1	2.20	0.42
35:DA:110:G:O2'	35:DA:111:A:H5'	2.19	0.42
35:DA:234:C:H2'	35:DA:235:U:H6	1.85	0.42
35:DA:487:C:C5	35:DA:488:G:N7	2.88	0.42
35:DA:536:A:P	52:DU:53:ARG:NH1	2.93	0.42
35:DA:1203:G:H3'	35:DA:1204:A:H5"	2.01	0.42
35:DA:1638:C:H5"	35:DA:2710:C:O2'	2.20	0.42
35:DA:1832:C:N4	35:DA:1833:U:C4	2.88	0.42
35:DA:1902:C:C2'	38:DD:244:ARG:HB2	2.50	0.42
35:DA:2152:G:H2'	35:DA:2153:G:H8	1.82	0.42
35:DA:2469:A:O2'	48:DQ:56:ARG:NE	2.47	0.42
36:DB:55:U:H2'	36:DB:56:G:C8	2.55	0.42
37:DC:16:ASP:OD2	37:DC:19:LYS:HB2	2.20	0.42
37:DC:225:ILE:HD12	37:DC:225:ILE:C	2.45	0.42
40:DF:116:ASP:OD2	47:DP:5:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:131:TYR:CE1	41:DG:133:LEU:HB3	2.55	0.42
43:DI:13:GLY:O	43:DI:17:GLN:OE1	2.38	0.42
43:DI:98:ALA:CB	43:DI:109:ILE:HB	2.48	0.42
45:DN:58:ASP:O	45:DN:60:ILE:HG13	2.20	0.42
46:DO:24:VAL:HA	46:DO:39:ILE:HG22	2.02	0.42
46:DO:104:ARG:HB3	46:DO:104:ARG:CZ	2.50	0.42
47:DP:29:LYS:N	47:DP:29:LYS:CD	2.82	0.42
48:DQ:11:LYS:NZ	48:DQ:87:LYS:O	2.50	0.42
49:DR:2:ARG:N	49:DR:2:ARG:NH1	2.47	0.42
50:DS:96:GLY:C	50:DS:98:VAL:N	2.77	0.42
51:DT:88:ILE:CG2	51:DT:89:VAL:H	2.27	0.42
57:DZ:163:LEU:HD23	57:DZ:163:LEU:N	2.34	0.42
57:DZ:174:VAL:HG12	57:DZ:174:VAL:O	2.19	0.42
1:AA:46:G:O2'	1:AA:365:U:H1'	2.20	0.42
1:AA:160:A:C1'	1:AA:344:A:C5	2.98	0.42
1:AA:363:A:N7	12:AL:30:ALA:HB1	2.35	0.42
1:AA:453:A:C5	1:AA:454:C:C4	3.08	0.42
1:AA:487:A:H2'	1:AA:488:C:O4'	2.20	0.42
1:AA:620:C:C2	4:AD:135:LEU:HD23	2.55	0.42
1:AA:1264:C:H1'	1:AA:1272:G:H22	1.84	0.42
1:AA:1281:U:O2'	1:AA:1282:C:P	2.78	0.42
1:AA:1462:G:C6	1:AA:1463:C:C4	3.08	0.42
2:AB:47:THR:HA	2:AB:202:PRO:CG	2.50	0.42
2:AB:60:ASP:O	2:AB:64:ARG:HG2	2.19	0.42
2:AB:115:LEU:O	2:AB:119:GLU:HB2	2.19	0.42
2:AB:170:GLU:C	2:AB:172:ILE:N	2.78	0.42
3:AC:35:GLU:OE2	3:AC:97:LYS:HD2	2.19	0.42
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.35	0.42
6:AF:40:VAL:O	6:AF:40:VAL:HG22	2.19	0.42
12:AL:90:VAL:HG12	12:AL:92:ASP:H	1.85	0.42
15:AO:8:LYS:O	15:AO:12:ILE:HG13	2.20	0.42
15:AO:38:ARG:HH11	15:AO:38:ARG:HG2	1.84	0.42
16:AP:20:VAL:HG22	16:AP:32:TYR:HB2	2.02	0.42
17:AQ:47:PRO:C	17:AQ:48:GLU:HG3	2.43	0.42
17:AQ:59:ILE:HG22	17:AQ:71:PHE:HB3	1.98	0.42
17:AQ:90:ILE:HG22	17:AQ:94:ASN:ND2	2.30	0.42
19:AS:9:VAL:O	19:AS:11:VAL:N	2.52	0.42
19:AS:11:VAL:HG13	19:AS:11:VAL:O	2.20	0.42
19:AS:47:HIS:O	19:AS:62:ILE:HG22	2.19	0.42
22:AV:10:G:H2'	22:AV:11:C:N1	2.35	0.42
23:AW:17:C:H5'	23:AW:18:U:H3'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:62:U:OP1	23:AW:63:C:N4	2.44	0.42
22:AY:19:G:C2	22:AY:59:G:C2	3.08	0.42
25:B0:73:GLY:C	25:B0:75:LEU:N	2.78	0.42
31:B6:52:VAL:CG2	31:B6:53:LYS:H	2.32	0.42
34:B9:1:MET:HE2	34:B9:10:ILE:HD13	2.01	0.42
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.20	0.42
35:BA:210:C:H2'	35:BA:211:A:C8	2.55	0.42
35:BA:402:A:H2'	35:BA:403:U:H5'	2.01	0.42
35:BA:539:G:H2'	35:BA:540:C:H6	1.85	0.42
35:BA:902:C:O2'	35:BA:903:C:H5'	2.19	0.42
35:BA:1312:U:P	55:BX:63:LYS:HD2	2.60	0.42
35:BA:1385:G:O2'	35:BA:1396:U:C6	2.68	0.42
35:BA:1469:A:H2'	35:BA:1470:G:O4'	2.20	0.42
35:BA:1750:G:H2'	35:BA:1751:C:H6	1.84	0.42
35:BA:1754:C:OP2	51:BT:113:LYS:HE3	2.20	0.42
35:BA:1797:C:O2'	38:BD:259:THR:HB	2.19	0.42
35:BA:1902:C:C2'	38:BD:244:ARG:HB2	2.50	0.42
35:BA:2062:A:O2'	35:BA:2063:C:OP1	2.30	0.42
35:BA:2478:A:C2'	35:BA:2479:G:H5'	2.50	0.42
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.20	0.42
36:BB:79:C:H2'	36:BB:80:U:O4'	2.20	0.42
37:BC:27:ALA:HB1	37:BC:186:LEU:HB2	2.01	0.42
37:BC:41:THR:HB	37:BC:218:THR:OG1	2.19	0.42
37:BC:214:TYR:CZ	37:BC:224:ARG:HD2	2.55	0.42
38:BD:168:ARG:HA	38:BD:173:VAL:HA	2.00	0.42
39:BE:11:MET:C	39:BE:12:THR:HG22	2.45	0.42
39:BE:52:LEU:O	39:BE:74:PRO:CA	2.66	0.42
39:BE:75:VAL:C	39:BE:77:ILE:N	2.78	0.42
39:BE:91:VAL:CG1	39:BE:95:ILE:HG13	2.49	0.42
39:BE:132:HIS:O	39:BE:135:HIS:CD2	2.73	0.42
40:BF:150:GLY:HA2	40:BF:172:TRP:CD2	2.54	0.42
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.20	0.42
41:BG:60:LEU:HD22	41:BG:63:ILE:HD11	2.00	0.42
42:BH:18:GLU:O	42:BH:24:VAL:HG23	2.20	0.42
43:BI:12:LEU:O	43:BI:12:LEU:HG	2.20	0.42
43:BI:52:ARG:C	43:BI:54:GLN:H	2.28	0.42
43:BI:103:ARG:O	43:BI:104:GLN:C	2.61	0.42
46:BO:71:ARG:NE	46:BO:105:GLU:OE2	2.52	0.42
48:BQ:12:GLN:HE21	48:BQ:73:PRO:CD	2.33	0.42
50:BS:56:LEU:HD23	50:BS:56:LEU:C	2.45	0.42
54:BW:18:ARG:HG2	54:BW:76:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:54:LYS:C	56:BY:56:PRO:CD	2.93	0.42
57:BZ:63:ASP:OD1	57:BZ:65:GLN:HB2	2.20	0.42
1:CA:55:A:O2'	1:CA:56:U:H5'	2.20	0.42
1:CA:80:G:H3'	1:CA:81:U:H5'	2.01	0.42
1:CA:83:U:H2'	1:CA:84:U:C5	2.55	0.42
1:CA:407:G:O2'	4:CD:116:GLN:HG3	2.19	0.42
1:CA:423:G:C2'	1:CA:424:G:H5'	2.50	0.42
1:CA:448:A:O5'	1:CA:485:G:N2	2.53	0.42
1:CA:827:U:H2'	1:CA:870:U:O4	2.19	0.42
1:CA:828:A:H5"	1:CA:859:A:C2	2.55	0.42
1:CA:975:A:C4'	1:CA:976:G:H5"	2.31	0.42
1:CA:1003:G:N2	1:CA:1039:C:H42	2.18	0.42
1:CA:1291:G:O2'	1:CA:1292:U:H5'	2.20	0.42
1:CA:1296:C:C5	1:CA:1297:C:N4	2.88	0.42
2:CB:207:ALA:O	2:CB:209:ARG:N	2.53	0.42
4:CD:43:HIS:C	4:CD:45:GLN:N	2.75	0.42
4:CD:126:ILE:HG23	4:CD:147:ALA:O	2.20	0.42
5:CE:31:LEU:HD21	5:CE:43:LEU:HG	2.02	0.42
6:CF:7:ASN:O	6:CF:8:ILE:CG1	2.68	0.42
9:CI:48:GLU:CD	9:CI:51:ARG:HD2	2.45	0.42
9:CI:83:ARG:C	9:CI:86:VAL:HG12	2.45	0.42
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.50	0.42
10:CJ:13:HIS:CE1	10:CJ:14:LYS:HG3	2.55	0.42
16:CP:66:PRO:C	16:CP:67:THR:O	2.61	0.42
23:CW:15:G:OP2	23:CW:16:U:C5	2.73	0.42
25:D0:41:ARG:HD3	25:D0:41:ARG:HA	1.88	0.42
27:D2:7:ARG:HH11	27:D2:7:ARG:HG2	1.85	0.42
31:D6:37:ARG:NH1	31:D6:39:TYR:CE2	2.88	0.42
34:D9:6:SER:HB2	35:DA:2466:C:H5"	2.02	0.42
35:DA:15:G:H1	35:DA:525:U:H3	1.68	0.42
35:DA:92:A:H2'	35:DA:93:G:O4'	2.20	0.42
35:DA:461:C:O2'	35:DA:462:C:H5'	2.20	0.42
35:DA:950:G:O2'	35:DA:951:C:H5'	2.20	0.42
35:DA:1344:G:H4'	35:DA:1384:A:C5	2.55	0.42
35:DA:1448:G:H2'	35:DA:1449:A:C8	2.55	0.42
35:DA:1528:A:N1	35:DA:1542:A:C2	2.73	0.42
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.55	0.42
37:DC:173:HIS:CD2	37:DC:173:HIS:N	2.86	0.42
37:DC:182:PRO:CB	37:DC:185:LYS:HD2	2.49	0.42
38:DD:32:SER:C	38:DD:36:PRO:HD3	2.45	0.42
39:DE:21:VAL:HG23	39:DE:21:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:111:ARG:HD2	39:DE:160:TYR:CE2	2.55	0.42
39:DE:181:LEU:HD11	51:DT:7:ILE:HG21	2.02	0.42
40:DF:126:VAL:HG23	40:DF:127:GLU:N	2.35	0.42
41:DG:135:LEU:HD13	41:DG:155:MET:CG	2.49	0.42
43:DI:48:GLU:C	43:DI:50:ARG:H	2.27	0.42
43:DI:81:VAL:HG22	43:DI:143:SER:O	2.20	0.42
46:DO:10:VAL:O	46:DO:10:VAL:CG2	2.68	0.42
47:DP:16:ARG:O	47:DP:18:ARG:N	2.52	0.42
47:DP:64:LYS:O	47:DP:64:LYS:HG2	2.19	0.42
49:DR:72:ASP:O	49:DR:76:VAL:HB	2.20	0.42
53:DV:41:GLY:CA	53:DV:45:THR:OG1	2.68	0.42
55:DX:48:LYS:O	55:DX:49:VAL:HG13	2.20	0.42
56:DY:14:LEU:O	56:DY:14:LEU:HG	2.17	0.42
56:DY:57:GLN:CG	56:DY:58:GLY:N	2.83	0.42
1:AA:136:C:C4'	16:AP:1:MET:HE3	2.49	0.41
1:AA:371:G:H21	1:AA:374:A:N6	2.18	0.41
1:AA:401:C:C6	1:AA:401:C:C3'	3.03	0.41
1:AA:453:A:H2'	1:AA:454:C:H6	1.85	0.41
1:AA:523:A:C2	1:AA:527:G:O6	2.73	0.41
1:AA:656:C:H2'	1:AA:657:G:C8	2.55	0.41
1:AA:668:G:O2'	15:AO:46:HIS:CD2	2.73	0.41
1:AA:682:G:O2'	1:AA:683:G:H5'	2.20	0.41
1:AA:743:U:O2'	1:AA:744:C:H5'	2.19	0.41
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.20	0.41
1:AA:975:A:N1	10:AJ:48:THR:HB	2.35	0.41
1:AA:1032:G:H2'	1:AA:1033:G:C8	2.55	0.41
2:AB:144:ARG:HA	2:AB:147:LYS:HB3	2.02	0.41
3:AC:118:GLN:HA	3:AC:187:ALA:CB	2.50	0.41
4:AD:36:ARG:O	4:AD:38:TYR:N	2.52	0.41
4:AD:56:VAL:HG12	4:AD:202:LEU:HD13	2.02	0.41
4:AD:76:ARG:HH11	4:AD:76:ARG:HG2	1.84	0.41
4:AD:98:GLU:CD	4:AD:103:ASN:HD21	2.28	0.41
6:AF:39:LYS:O	6:AF:40:VAL:HB	2.20	0.41
8:AH:64:LYS:C	8:AH:65:TYR:CD1	2.98	0.41
9:AI:78:LYS:NZ	9:AI:78:LYS:HB3	2.35	0.41
10:AJ:34:VAL:HG21	10:AJ:74:ILE:HG22	1.98	0.41
10:AJ:42:THR:OG1	10:AJ:68:HIS:HB3	2.20	0.41
10:AJ:78:ASN:C	10:AJ:80:LYS:H	2.27	0.41
13:AM:65:LYS:HD3	29:B4:44:THR:HB	2.01	0.41
13:AM:112:GLY:C	13:AM:113:PRO:HG2	2.45	0.41
14:AN:23:ARG:HD2	14:AN:28:GLY:O	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:13:ASP:C	17:AQ:15:MET:N	2.78	0.41
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.20	0.41
17:AQ:75:ARG:HG3	17:AQ:75:ARG:HH11	1.85	0.41
22:AV:76:C:O2'	22:AV:77:C:H5"	2.20	0.41
23:AW:25:A:H3'	23:AW:26:G:C8	2.54	0.41
22:AY:58:C:H2'	22:AY:59:G:C8	2.52	0.41
22:AY:63:C:N1	57:BZ:186:GLU:OE1	2.53	0.41
27:B2:41:ILE:C	27:B2:43:GLN:H	2.27	0.41
28:B3:16:PRO:O	28:B3:17:LYS:C	2.63	0.41
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.34	0.41
30:B5:9:LYS:NZ	35:BA:2019:A:N7	2.66	0.41
30:B5:51:TYR:CD2	30:B5:52:TYR:HB2	2.55	0.41
31:B6:27:LYS:O	31:B6:30:THR:HG22	2.20	0.41
31:B6:28:ARG:NH1	31:B6:28:ARG:CB	2.83	0.41
32:B7:43:THR:HG23	32:B7:44:PRO:HD2	2.02	0.41
35:BA:527:C:O2	35:BA:527:C:O4'	2.36	0.41
35:BA:704:G:H1'	35:BA:726:G:N2	2.35	0.41
35:BA:954:G:C5	35:BA:955:C:C5	3.07	0.41
35:BA:1244:G:H2'	35:BA:1245:G:H5'	2.02	0.41
35:BA:1516:C:O2'	35:BA:1517:G:H5'	2.20	0.41
35:BA:1564:C:O2'	35:BA:1565:C:H5'	2.19	0.41
35:BA:2070:G:H2'	35:BA:2071:A:O4'	2.20	0.41
35:BA:2558:C:H2'	35:BA:2559:C:C6	2.55	0.41
35:BA:2646:C:OP2	35:BA:2732:G:O2'	2.35	0.41
35:BA:2702:U:H4'	35:BA:2703:C:OP1	2.20	0.41
37:BC:23:ILE:CG2	37:BC:190:ILE:HB	2.50	0.41
37:BC:29:LEU:HD22	37:BC:33:LEU:CD1	2.50	0.41
38:BD:28:GLU:N	38:BD:29:PRO:CD	2.81	0.41
38:BD:200:ASP:O	38:BD:201:HIS:C	2.63	0.41
39:BE:38:THR:O	39:BE:40:GLU:N	2.53	0.41
39:BE:79:ARG:HH11	39:BE:79:ARG:CG	2.33	0.41
40:BF:192:LEU:HD21	40:BF:194:MET:CG	2.50	0.41
41:BG:125:PHE:O	41:BG:126:ASP:C	2.63	0.41
42:BH:61:HIS:O	42:BH:62:LYS:C	2.60	0.41
42:BH:70:THR:HG23	42:BH:74:ASN:ND2	2.34	0.41
42:BH:94:TYR:CD2	42:BH:107:VAL:HB	2.55	0.41
43:BI:82:ARG:HG2	43:BI:145:VAL:HG21	2.02	0.41
43:BI:113:ARG:O	43:BI:114:LEU:HG	2.20	0.41
51:BT:12:SER:O	51:BT:13:ARG:NH2	2.53	0.41
51:BT:28:VAL:O	51:BT:29:ARG:CD	2.68	0.41
57:BZ:27:VAL:O	57:BZ:88:PHE:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:28:MET:HA	57:BZ:88:PHE:O	2.20	0.41
1:CA:540:G:H2'	1:CA:541:G:O4'	2.19	0.41
1:CA:706:A:N7	1:CA:707:C:C5	2.86	0.41
1:CA:942:G:H21	9:CI:124:GLN:HE22	1.65	0.41
1:CA:1296:C:H5"	1:CA:1297:C:H5	1.85	0.41
2:CB:60:ASP:O	2:CB:64:ARG:HG2	2.19	0.41
2:CB:107:THR:HA	2:CB:110:GLN:NE2	2.35	0.41
2:CB:115:LEU:O	2:CB:119:GLU:HB2	2.19	0.41
2:CB:144:ARG:HA	2:CB:147:LYS:HB3	2.02	0.41
3:CC:22:TRP:HB2	3:CC:23:TYR:H	1.66	0.41
3:CC:44:GLU:HA	3:CC:52:LEU:HD11	2.00	0.41
3:CC:59:ARG:NH1	3:CC:97:LYS:NZ	2.67	0.41
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.67	0.41
4:CD:177:ASP:C	4:CD:179:GLU:N	2.78	0.41
8:CH:6:ILE:O	8:CH:8:ASP:N	2.53	0.41
8:CH:44:PHE:HA	8:CH:79:VAL:CG1	2.50	0.41
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	2.02	0.41
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.97	0.41
13:CM:37:THR:O	13:CM:55:ARG:CZ	2.67	0.41
14:CN:27:CYS:SG	14:CN:27:CYS:O	2.78	0.41
18:CR:61:LYS:O	18:CR:65:ILE:HG13	2.20	0.41
22:CV:1:G:H1'	25:D0:5:LYS:CE	2.49	0.41
22:CY:19:G:C8	22:CY:19:G:OP1	2.69	0.41
29:D4:24:THR:HB	41:DG:5:VAL:CG1	2.49	0.41
32:D7:25:PRO:HA	32:D7:28:ARG:CZ	2.50	0.41
35:DA:143:G:H1'	55:DX:37:THR:CG2	2.48	0.41
35:DA:469:G:H2'	35:DA:470:A:H5"	1.99	0.41
35:DA:634:C:H2'	35:DA:635:C:H6	1.85	0.41
35:DA:812:C:H5'	47:DP:25:SER:HB2	2.00	0.41
35:DA:845:G:O2'	35:DA:846:C:H5	2.03	0.41
35:DA:1283:G:N2	35:DA:1285:G:H3'	2.35	0.41
35:DA:1501:C:H1'	38:DD:100:GLY:HA2	2.01	0.41
35:DA:2016:U:H2'	35:DA:2017:U:C6	2.55	0.41
35:DA:2271:G:C5	35:DA:2272:U:C4	3.08	0.41
35:DA:2729:G:H2'	35:DA:2730:C:C6	2.54	0.41
35:DA:2815:C:H2'	35:DA:2816:C:C6	2.54	0.41
35:DA:2848:G:H3'	51:DT:95:ARG:O	2.20	0.41
37:DC:6:LYS:C	37:DC:8:TYR:H	2.28	0.41
38:DD:70:TRP:HZ3	38:DD:146:GLU:CD	2.27	0.41
38:DD:118:VAL:CG2	38:DD:119:ALA:N	2.81	0.41
38:DD:145:VAL:HG11	38:DD:175:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:44:TYR:O	39:DE:45:THR:CB	2.68	0.41
39:DE:89:ASP:O	39:DE:90:THR:O	2.37	0.41
39:DE:117:MET:HA	39:DE:122:PHE:H	1.85	0.41
41:DG:27:ASN:O	41:DG:30:GLU:HB3	2.20	0.41
41:DG:138:GLN:HE21	41:DG:149:VAL:CG2	2.33	0.41
42:DH:89:ILE:C	42:DH:89:ILE:HD12	2.44	0.41
43:DI:82:ARG:HG2	43:DI:145:VAL:HG21	2.01	0.41
45:DN:33:LEU:O	45:DN:35:ARG:O	2.38	0.41
47:DP:59:LEU:CB	47:DP:61:ARG:NH1	2.83	0.41
48:DQ:39:PRO:HA	48:DQ:97:VAL:O	2.20	0.41
48:DQ:114:ALA:C	48:DQ:116:GLU:N	2.75	0.41
50:DS:56:LEU:HD23	50:DS:56:LEU:C	2.46	0.41
50:DS:85:VAL:O	50:DS:106:ARG:HG2	2.20	0.41
55:DX:8:ILE:HD12	55:DX:8:ILE:N	2.35	0.41
1:AA:254:G:H4'	17:AQ:18:THR:HG21	2.02	0.41
1:AA:347:G:C2	1:AA:348:G:H1'	2.55	0.41
1:AA:918:A:O2'	1:AA:919:A:H5'	2.20	0.41
1:AA:1003:G:N2	1:AA:1039:C:H42	2.18	0.41
1:AA:1151:A:C4	1:AA:1152:A:N7	2.88	0.41
1:AA:1347:G:C2	9:AI:107:ARG:NH2	2.88	0.41
2:AB:91:PRO:HG3	2:AB:154:LEU:CB	2.42	0.41
2:AB:121:LEU:HD23	2:AB:124:SER:HB3	2.02	0.41
3:AC:87:LEU:C	3:AC:89:GLU:N	2.74	0.41
4:AD:129:ASN:H	4:AD:129:ASN:ND2	2.17	0.41
13:AM:89:GLY:C	13:AM:93:ARG:HD2	2.45	0.41
17:AQ:4:LYS:HG3	17:AQ:5:VAL:N	2.35	0.41
17:AQ:52:LYS:HE3	17:AQ:52:LYS:HB3	1.92	0.41
19:AS:6:LYS:CE	19:AS:6:LYS:N	2.83	0.41
22:AV:9:A:H8	22:AV:11:C:H41	1.64	0.41
22:AV:72:C:C4	22:AV:73:C:C5	3.08	0.41
23:AW:37:A:C5	23:AW:38:U:C4	3.08	0.41
23:AW:40:A:N1	23:AW:41:C:H3'	2.30	0.41
23:AW:45:U:C3'	23:AW:46:U:H6	2.27	0.41
23:AW:70:G:N9	23:AW:71:G:C8	2.87	0.41
22:AY:5:C:N3	22:AY:6:C:C4	2.88	0.41
22:AY:11:C:H42	22:AY:27:C:H42	1.68	0.41
29:B4:9:LEU:C	29:B4:9:LEU:HD13	2.45	0.41
31:B6:27:LYS:HE2	31:B6:29:ASN:OD1	2.20	0.41
35:BA:229:A:C5'	35:BA:230:U:H5'	2.50	0.41
35:BA:280:C:C2'	35:BA:281:G:H5'	2.50	0.41
35:BA:299:A:N1	35:BA:322:A:O2'	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:626:U:C5'	35:BA:627:A:C5'	2.98	0.41
35:BA:732:C:O2'	35:BA:733:G:H5'	2.20	0.41
35:BA:822:U:H2'	35:BA:823:G:H8	1.85	0.41
35:BA:950:G:O2'	35:BA:951:C:H5'	2.20	0.41
35:BA:1672:C:H5"	35:BA:2554:U:OP1	2.20	0.41
35:BA:1775:U:H2'	35:BA:1776:G:C5'	2.50	0.41
35:BA:2128:C:OP1	37:BC:37:LYS:HG3	2.20	0.41
35:BA:2688:U:H1'	35:BA:2721:A:N6	2.35	0.41
35:BA:2796:U:H3'	35:BA:2799:C:C5'	2.50	0.41
35:BA:2884:U:O2'	35:BA:2885:C:H5'	2.19	0.41
37:BC:26:ALA:C	37:BC:28:ARG:H	2.28	0.41
37:BC:225:ILE:HD12	37:BC:225:ILE:C	2.44	0.41
38:BD:94:LEU:HD22	38:BD:95:LEU:N	2.35	0.41
40:BF:84:VAL:O	40:BF:85:GLY:C	2.61	0.41
40:BF:192:LEU:HD22	40:BF:194:MET:HG3	2.01	0.41
41:BG:57:ALA:CA	41:BG:90:LEU:HD21	2.47	0.41
41:BG:86:MET:HB3	41:BG:87:PRO:HD3	2.02	0.41
41:BG:123:ASN:HB2	41:BG:126:ASP:OD1	2.20	0.41
41:BG:127:GLY:O	41:BG:128:ARG:C	2.62	0.41
43:BI:13:GLY:O	43:BI:17:GLN:OE1	2.38	0.41
46:BO:32:TYR:CD1	46:BO:32:TYR:N	2.88	0.41
47:BP:41:ARG:NE	47:BP:41:ARG:CA	2.83	0.41
47:BP:110:TYR:CE2	47:BP:111:ARG:NH1	2.88	0.41
48:BQ:79:LEU:HD23	48:BQ:80:GLU:H	1.85	0.41
50:BS:17:ARG:O	50:BS:20:ARG:HG2	2.19	0.41
51:BT:66:VAL:HA	51:BT:71:GLY:HA2	2.01	0.41
53:BV:18:LEU:CD1	53:BV:18:LEU:N	2.84	0.41
53:BV:46:VAL:HG22	53:BV:47:VAL:N	2.27	0.41
55:BX:12:VAL:HG11	55:BX:27:THR:HG23	2.01	0.41
56:BY:2:ARG:HH11	56:BY:2:ARG:HG2	1.85	0.41
1:CA:180:U:H2'	1:CA:181:G:H5'	1.96	0.41
1:CA:268:C:H2'	1:CA:269:C:H6	1.85	0.41
1:CA:523:A:C2	1:CA:527:G:O6	2.73	0.41
1:CA:668:G:O2'	1:CA:669:U:H5'	2.20	0.41
1:CA:1005:A:H5'	1:CA:1037:C:O2	2.19	0.41
1:CA:1010:G:H2'	1:CA:1011:G:C8	2.55	0.41
1:CA:1060:C:O2'	1:CA:1061:G:H5'	2.20	0.41
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.20	0.41
2:CB:44:LEU:O	2:CB:47:THR:HB	2.20	0.41
2:CB:77:ALA:HB1	2:CB:211:ILE:HG21	1.99	0.41
2:CB:91:PRO:HG3	2:CB:154:LEU:CB	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:3:ASN:OD1	3:CC:4:LYS:HG3	2.21	0.41
4:CD:103:ASN:C	4:CD:105:VAL:N	2.77	0.41
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.85	0.41
7:CG:77:SER:OG	23:CW:35:U:H5"	2.20	0.41
7:CG:93:PRO:O	7:CG:94:ARG:C	2.63	0.41
9:CI:127:LYS:CE	22:CV:36:AG9:H15'	2.50	0.41
10:CJ:42:THR:OG1	10:CJ:68:HIS:HB3	2.20	0.41
12:CL:39:VAL:HG11	12:CL:57:LYS:HZ3	1.85	0.41
15:CO:48:LYS:HA	15:CO:48:LYS:HD3	1.86	0.41
16:CP:4:ILE:HD12	16:CP:4:ILE:H	1.85	0.41
16:CP:16:HIS:O	16:CP:17:TYR:C	2.62	0.41
17:CQ:52:LYS:HE3	17:CQ:52:LYS:HB3	1.91	0.41
20:CT:49:ALA:O	20:CT:52:ALA:HB3	2.19	0.41
23:CW:3:G:C2'	23:CW:4:C:O5'	2.68	0.41
22:CY:31:C:N3	22:CY:43:G:N2	2.61	0.41
25:D0:20:ARG:HD3	35:DA:2356:C:O3'	2.20	0.41
27:D2:32:LEU:O	27:D2:33:MET:C	2.62	0.41
27:D2:35:LEU:HD12	27:D2:53:LEU:CD1	2.49	0.41
29:D4:25:TYR:O	41:DG:101:ILE:CG2	2.68	0.41
31:D6:19:ARG:N	31:D6:19:ARG:HD2	2.35	0.41
31:D6:28:ARG:NH1	31:D6:28:ARG:CB	2.84	0.41
33:D8:12:LYS:NZ	35:DA:249:C:O2	2.51	0.41
33:D8:16:ILE:HD12	33:D8:57:ARG:HG2	2.02	0.41
35:DA:128:C:H2'	35:DA:129:C:C6	2.52	0.41
35:DA:470:A:H2'	35:DA:471:A:O4'	2.19	0.41
35:DA:527:C:N4	35:DA:2779:U:OP2	2.50	0.41
35:DA:528:A:C2	35:DA:2043:C:C4'	3.01	0.41
35:DA:621:A:C2'	35:DA:622:G:H5'	2.48	0.41
35:DA:2134:A:H61	35:DA:2157:G:C2'	2.33	0.41
35:DA:2188:C:C2'	35:DA:2189:U:O4'	2.65	0.41
35:DA:2236:C:H2'	35:DA:2237:G:H5'	2.03	0.41
35:DA:2300:G:H1	35:DA:2316:C:N4	2.15	0.41
35:DA:2588:G:O2'	35:DA:2589:A:H5'	2.20	0.41
36:DB:79:C:H2'	36:DB:80:U:O4'	2.20	0.41
37:DC:48:LEU:HD11	37:DC:172:ILE:CG2	2.41	0.41
38:DD:35:LYS:NZ	38:DD:36:PRO:N	2.68	0.41
38:DD:52:ARG:HH11	38:DD:52:ARG:HD3	1.73	0.41
38:DD:65:ILE:HD13	38:DD:65:ILE:H	1.85	0.41
39:DE:47:VAL:HG22	39:DE:48:GLN:O	2.20	0.41
39:DE:76:ARG:O	39:DE:77:ILE:O	2.37	0.41
39:DE:79:ARG:CG	39:DE:79:ARG:HH11	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.35	0.41
39:DE:134:ILE:HA	39:DE:137:HIS:HD2	1.83	0.41
40:DF:66:PRO:C	40:DF:68:LYS:H	2.28	0.41
40:DF:68:LYS:O	40:DF:69:HIS:HB2	2.19	0.41
40:DF:192:LEU:HD23	40:DF:192:LEU:C	2.46	0.41
43:DI:40:THR:O	43:DI:41:GLU:C	2.61	0.41
43:DI:113:ARG:O	43:DI:114:LEU:HD23	2.20	0.41
47:DP:47:ASP:HB2	47:DP:51:PHE:HB2	2.01	0.41
48:DQ:69:PHE:CD1	48:DQ:70:PRO:HD2	2.55	0.41
49:DR:116:LEU:HD23	49:DR:116:LEU:HA	1.89	0.41
50:DS:35:ILE:H	50:DS:53:SER:HB2	1.84	0.41
53:DV:18:LEU:CD1	53:DV:18:LEU:N	2.83	0.41
53:DV:36:PRO:O	53:DV:37:VAL:C	2.62	0.41
54:DW:5:ALA:HB3	54:DW:105:VAL:H	1.85	0.41
56:DY:2:ARG:HH11	56:DY:2:ARG:HG2	1.84	0.41
57:DZ:7:ALA:C	57:DZ:8:TYR:CD1	2.98	0.41
57:DZ:29:TYR:HB3	57:DZ:34:ASN:HD22	1.85	0.41
1:AA:570:G:H1'	1:AA:820:U:C4	2.55	0.41
1:AA:618:C:N4	1:AA:623:C:H42	2.19	0.41
1:AA:706:A:O4'	11:AK:29:ILE:HD13	2.19	0.41
1:AA:825:G:H2'	1:AA:826:C:C6	2.55	0.41
1:AA:865:A:H5'	1:AA:1078:U:O4	2.21	0.41
1:AA:1010:G:H2'	1:AA:1011:G:C8	2.55	0.41
1:AA:1278:U:H4'	1:AA:1279:A:H8	1.84	0.41
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.21	0.41
3:AC:18:TRP:CE3	3:AC:18:TRP:N	2.77	0.41
3:AC:29:TYR:OH	14:AN:54:PRO:HD2	2.20	0.41
3:AC:40:ARG:HG2	3:AC:55:VAL:CB	2.50	0.41
3:AC:127:ARG:N	3:AC:127:ARG:HD2	2.35	0.41
4:AD:11:LEU:C	4:AD:13:ARG:H	2.28	0.41
4:AD:76:ARG:HG2	4:AD:76:ARG:NH1	2.35	0.41
5:AE:42:GLY:CA	5:AE:65:ASN:O	2.68	0.41
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.49	0.41
5:AE:128:PRO:O	5:AE:129:ILE:C	2.63	0.41
7:AG:40:ALA:O	7:AG:44:TYR:HD2	2.03	0.41
7:AG:115:ARG:C	7:AG:118:VAL:HG22	2.45	0.41
8:AH:31:PHE:O	8:AH:34:GLU:HB2	2.19	0.41
9:AI:114:TYR:CD1	9:AI:114:TYR:O	2.73	0.41
10:AJ:32:ALA:H	10:AJ:78:ASN:HD22	1.69	0.41
10:AJ:70:ARG:HH11	10:AJ:70:ARG:CG	2.31	0.41
11:AK:66:LEU:C	11:AK:68:ALA:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:16:U:O2	23:AW:62:U:C5'	2.69	0.41
23:AW:20:G:C3'	23:AW:21:U:C5'	2.96	0.41
24:AX:15:A:H2'	24:AX:15:A:N3	2.36	0.41
30:B5:35:GLU:O	30:B5:36:CYS:HB3	2.20	0.41
31:B6:44:ARG:HB2	31:B6:44:ARG:NH1	2.35	0.41
35:BA:484:C:OP1	56:BY:50:ARG:HG3	2.20	0.41
35:BA:964:C:N3	35:BA:965:C:C5	2.88	0.41
35:BA:1133:U:H2'	35:BA:1137:G:OP1	2.20	0.41
35:BA:1504:C:O2'	35:BA:1505:C:C5'	2.68	0.41
35:BA:1652:A:C2'	35:BA:1653:G:H5'	2.51	0.41
35:BA:1678:G:N2	35:BA:1989:G:H1	2.18	0.41
35:BA:1831:G:H2'	35:BA:1832:C:H6	1.82	0.41
35:BA:1887:C:H2'	35:BA:1888:G:C5'	2.38	0.41
35:BA:1948:G:O2'	35:BA:1949:G:H5'	2.20	0.41
35:BA:2692:C:H1'	35:BA:2847:U:O2'	2.20	0.41
35:BA:2801(A):A:O4'	35:BA:2802:G:H2'	2.20	0.41
38:BD:74:GLY:O	38:BD:76:PRO:HD3	2.19	0.41
39:BE:64:LYS:O	39:BE:73:GLU:OE2	2.38	0.41
39:BE:134:ILE:HA	39:BE:137:HIS:CD2	2.56	0.41
39:BE:137:HIS:CB	39:BE:138:PRO:HD2	2.50	0.41
41:BG:96:ARG:O	41:BG:97:ASP:CB	2.68	0.41
41:BG:125:PHE:CD1	41:BG:125:PHE:N	2.72	0.41
43:BI:9:LEU:H	43:BI:13:GLY:CA	2.33	0.41
43:BI:60:GLU:HB3	43:BI:61:ARG:NH1	2.35	0.41
46:BO:2:ILE:CG2	46:BO:8:LEU:HD21	2.50	0.41
47:BP:88:LEU:N	47:BP:88:LEU:CD1	2.82	0.41
48:BQ:111:GLU:O	48:BQ:115:MET:HG2	2.21	0.41
49:BR:28:LEU:CD2	49:BR:114:VAL:HG12	2.50	0.41
51:BT:88:ILE:CG2	51:BT:89:VAL:N	2.76	0.41
52:BU:95:LEU:HD12	53:BV:11:GLN:HE21	1.85	0.41
56:BY:95:LYS:CD	56:BY:101:LYS:H	2.33	0.41
1:CA:254:G:H4'	17:CQ:18:THR:HG21	2.02	0.41
1:CA:322:C:O2'	1:CA:323:U:H5'	2.19	0.41
1:CA:363:A:OP2	12:CL:34:ARG:HB3	2.21	0.41
1:CA:656:C:H2'	1:CA:657:G:H8	1.84	0.41
1:CA:918:A:H2'	1:CA:919:A:O4'	2.20	0.41
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.20	0.41
1:CA:971:G:H22	1:CA:1363(A):A:P	2.43	0.41
1:CA:1003:G:N2	1:CA:1039:C:N4	2.68	0.41
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.55	0.41
1:CA:1339:A:C2	22:CV:33:G:H4'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.20	0.41
1:CA:1498:U:O2'	1:CA:1499:A:P	2.78	0.41
3:CC:184:TYR:HA	3:CC:200:ALA:O	2.20	0.41
4:CD:57:ARG:HD2	4:CD:57:ARG:H	1.85	0.41
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.66	0.41
5:CE:51:VAL:CB	5:CE:52:PRO:HD3	2.30	0.41
5:CE:72:GLN:O	5:CE:74:GLY:N	2.54	0.41
6:CF:8:ILE:HD13	6:CF:26:ILE:HD13	2.02	0.41
6:CF:100:ASN:HD21	18:CR:23:LYS:NZ	2.17	0.41
10:CJ:4:ILE:N	10:CJ:4:ILE:CD1	2.83	0.41
10:CJ:78:ASN:HB2	10:CJ:81:THR:OG1	2.20	0.41
13:CM:89:GLY:O	13:CM:92:HIS:N	2.52	0.41
14:CN:6:LEU:C	14:CN:8:GLU:N	2.75	0.41
16:CP:20:VAL:HG21	16:CP:32:TYR:CD1	2.56	0.41
19:CS:63:THR:HG23	19:CS:65:ASN:OD1	2.19	0.41
20:CT:40:ALA:HB2	20:CT:55:ILE:HG22	2.02	0.41
22:CV:58:C:N4	41:DG:84:LYS:HE2	2.35	0.41
23:CW:20:G:C4	23:CW:59:G:C2	3.07	0.41
24:CX:17:U:H2'	24:CX:18:A:O4'	2.21	0.41
24:CX:22:A:H2	22:CY:36:AG9:N4	2.17	0.41
22:CY:3:G:OP2	22:CY:3:G:H8	2.03	0.41
25:D0:25:ARG:HG2	25:D0:25:ARG:NH1	2.34	0.41
29:D4:14:ILE:HG23	29:D4:33:VAL:HG23	2.02	0.41
31:D6:27:LYS:O	31:D6:28:ARG:C	2.63	0.41
32:D7:34:ARG:HH12	32:D7:39:ARG:HD2	1.85	0.41
33:D8:36:LYS:O	33:D8:37:SER:C	2.62	0.41
35:DA:191:A:H2'	35:DA:192:C:C6	2.55	0.41
35:DA:649:G:H2'	35:DA:650:C:H6	1.85	0.41
35:DA:935:C:H2'	35:DA:936:C:C6	2.55	0.41
35:DA:954:G:C5	35:DA:955:C:C5	3.08	0.41
35:DA:1003:G:O2'	35:DA:1010:A:N1	2.53	0.41
35:DA:1181:C:H2'	35:DA:1182:A:H8	1.86	0.41
35:DA:2073:C:O2'	35:DA:2074:U:H5'	2.20	0.41
35:DA:2121:G:H1	35:DA:2177:C:N4	2.12	0.41
35:DA:2188:C:H2'	35:DA:2189:U:C1'	2.50	0.41
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.33	0.41
35:DA:2629:A:N3	35:DA:2629:A:H2'	2.35	0.41
35:DA:2809:A:H62	35:DA:2891:G:H2'	1.85	0.41
35:DA:2850:A:N7	35:DA:2868:A:O2'	2.51	0.41
35:DA:2894:G:N3	35:DA:2894:G:C2'	2.81	0.41
38:DD:142:VAL:HG21	38:DD:191:ALA:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:117:MET:HA	39:DE:122:PHE:N	2.35	0.41
40:DF:32:LEU:HD23	40:DF:32:LEU:O	2.19	0.41
40:DF:72:ARG:HB3	40:DF:72:ARG:NH1	2.35	0.41
41:DG:47:LYS:HG2	41:DG:81:LYS:HD3	2.03	0.41
41:DG:111:LEU:HB3	41:DG:117:PHE:CZ	2.56	0.41
42:DH:43:VAL:HG12	42:DH:52:VAL:HA	2.02	0.41
42:DH:89:ILE:HD11	42:DH:94:TYR:O	2.20	0.41
43:DI:77:LEU:HD21	43:DI:79:ILE:HG12	2.02	0.41
44:DJ:55:UNK:O	44:DJ:56:UNK:O	2.38	0.41
45:DN:61:ARG:HG3	45:DN:61:ARG:HH11	1.85	0.41
45:DN:120:LEU:CD2	45:DN:120:LEU:C	2.94	0.41
45:DN:133:GLN:CG	45:DN:134:ARG:H	2.08	0.41
46:DO:47:ILE:O	46:DO:48:PRO:C	2.62	0.41
48:DQ:99:PRO:CB	57:DZ:79:ARG:HH21	2.33	0.41
50:DS:89:ARG:CG	50:DS:92:TYR:HA	2.47	0.41
51:DT:1:MET:O	51:DT:2:ASN:O	2.38	0.41
51:DT:88:ILE:HG22	51:DT:89:VAL:CG2	2.39	0.41
53:DV:56:SER:O	53:DV:100:ARG:O	2.38	0.41
54:DW:16:LYS:O	54:DW:19:LEU:HB2	2.19	0.41
57:DZ:43:GLU:O	57:DZ:44:PHE:C	2.63	0.41
57:DZ:63:ASP:C	57:DZ:65:GLN:H	2.27	0.41
1:AA:66:G:C2	1:AA:67:C:C6	3.08	0.41
1:AA:549:C:H2'	1:AA:550:G:O4'	2.20	0.41
1:AA:586:C:C2'	1:AA:587:G:H5'	2.50	0.41
1:AA:818:G:H3'	1:AA:819:A:C5'	2.50	0.41
1:AA:963:G:H21	10:AJ:55:LYS:HZ3	1.66	0.41
1:AA:1206:G:O2'	1:AA:1207:G:H5'	2.20	0.41
1:AA:1289:A:H2'	1:AA:1290:G:O4'	2.21	0.41
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.55	0.41
1:AA:1346:A:C8	7:AG:10:ARG:NH2	2.89	0.41
2:AB:114:ARG:HD3	2:AB:118:LEU:HG	2.01	0.41
2:AB:185:ILE:HG22	2:AB:199:TYR:HD1	1.86	0.41
2:AB:211:ILE:O	2:AB:215:LEU:HD23	2.20	0.41
3:AC:33:LEU:HD21	14:AN:53:LEU:HD21	2.02	0.41
3:AC:34:LEU:HD22	3:AC:38:ARG:CZ	2.50	0.41
4:AD:52:SER:O	4:AD:55:ALA:HB3	2.20	0.41
6:AF:7:ASN:C	6:AF:8:ILE:HG13	2.46	0.41
7:AG:135:VAL:O	7:AG:136:LYS:C	2.63	0.41
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.61	0.41
9:AI:104:ARG:C	9:AI:105:ASP:N	2.79	0.41
11:AK:69:ALA:O	11:AK:73:MET:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:96:ARG:HA	11:AK:99:GLN:OE1	2.19	0.41
12:AL:11:VAL:HG21	17:AQ:34:LYS:HD3	2.02	0.41
12:AL:45:PRO:HG3	12:AL:53:ARG:CD	2.51	0.41
12:AL:104:VAL:O	12:AL:107:ALA:HB3	2.20	0.41
13:AM:78:ILE:C	13:AM:80:ARG:H	2.27	0.41
15:AO:27:VAL:O	15:AO:28:GLN:C	2.61	0.41
15:AO:72:ARG:HH11	15:AO:72:ARG:HG2	1.85	0.41
18:AR:84:LYS:HD3	18:AR:84:LYS:HA	1.93	0.41
20:AT:69:GLY:O	20:AT:73:HIS:CD2	2.73	0.41
22:AV:25:A:C2	22:AV:26:G:C5	3.08	0.41
23:AW:3:G:H2'	23:AW:4:C:O5'	2.21	0.41
25:B0:16:SER:HB3	35:BA:2262:U:OP2	2.20	0.41
27:B2:3:LEU:HD21	27:B2:7:ARG:HH11	1.84	0.41
31:B6:28:ARG:CB	31:B6:28:ARG:HH11	2.33	0.41
33:B8:36:LYS:O	33:B8:37:SER:C	2.61	0.41
33:B8:39:LYS:HG2	33:B8:43:GLN:NE2	2.28	0.41
35:BA:71:A:H5"	35:BA:73:A:C8	2.55	0.41
35:BA:604:G:C6	35:BA:625:G:C2	3.08	0.41
35:BA:635:C:O2'	35:BA:636:G:H5'	2.21	0.41
35:BA:720:C:H2'	35:BA:721:C:C6	2.55	0.41
35:BA:1653:G:O6	49:BR:11:ASN:HB2	2.20	0.41
35:BA:2016:U:H2'	35:BA:2017:U:C6	2.55	0.41
35:BA:2197:U:O2'	35:BA:2198:A:H2'	2.21	0.41
35:BA:2463:C:C2'	35:BA:2464:C:H5'	2.50	0.41
35:BA:2472:G:C2'	35:BA:2475:C:H42	2.32	0.41
36:BB:8:U:H5'	36:BB:8:U:H6	1.85	0.41
38:BD:27:THR:HG23	38:BD:83:GLU:HB3	2.03	0.41
38:BD:155:LEU:HD23	38:BD:177:LEU:HD22	2.02	0.41
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.50	0.41
40:BF:28:ILE:N	40:BF:28:ILE:CD1	2.84	0.41
41:BG:53:LEU:N	41:BG:53:LEU:HD22	2.35	0.41
46:BO:64:ARG:HG2	46:BO:79:PHE:CD1	2.55	0.41
46:BO:98:VAL:CG1	46:BO:117:LEU:HB3	2.49	0.41
47:BP:66:GLY:O	47:BP:67:MET:HB3	2.20	0.41
47:BP:71:VAL:HG13	47:BP:72:PRO:N	2.35	0.41
48:BQ:10:ARG:NH1	48:BQ:10:ARG:HB3	2.34	0.41
49:BR:28:LEU:HD21	49:BR:114:VAL:HG12	2.02	0.41
49:BR:57:ARG:O	49:BR:59:ASP:N	2.44	0.41
50:BS:20:ARG:HA	50:BS:20:ARG:HE	1.83	0.41
51:BT:14:TYR:CD1	51:BT:14:TYR:N	2.88	0.41
51:BT:23:ARG:HG2	51:BT:120:ARG:HH12	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:30:VAL:HA	51:BT:44:ASP:HA	2.02	0.41
52:BU:29:SER:OG	52:BU:30:LYS:HE2	2.21	0.41
54:BW:17:VAL:C	54:BW:19:LEU:N	2.77	0.41
56:BY:3:VAL:O	56:BY:4:LYS:C	2.63	0.41
57:BZ:94:GLU:O	57:BZ:130:PRO:HD3	2.20	0.41
57:BZ:163:LEU:H	57:BZ:163:LEU:CD2	2.34	0.41
57:BZ:183:LEU:CG	57:BZ:184:ALA:N	2.83	0.41
1:CA:189(H):G:H2'	1:CA:189(I):G:H8	1.85	0.41
1:CA:522:C:H2'	1:CA:523:A:O4'	2.20	0.41
1:CA:779:C:H2'	1:CA:780:A:O4'	2.20	0.41
1:CA:825:G:H2'	1:CA:826:C:C6	2.56	0.41
1:CA:1129:C:H5"	1:CA:1139:G:C6	2.55	0.41
1:CA:1381:U:H1'	7:CG:78:ARG:NH1	2.35	0.41
1:CA:1402:C:C2'	1:CA:1403:C:H5'	2.50	0.41
2:CB:196:LEU:CD1	2:CB:197:VAL:HG23	2.50	0.41
3:CC:87:LEU:C	3:CC:89:GLU:N	2.75	0.41
3:CC:150:LYS:HA	3:CC:169:ALA:CB	2.50	0.41
4:CD:79:PHE:O	4:CD:82:ALA:HB3	2.21	0.41
6:CF:61:LEU:HD23	6:CF:63:TYR:CZ	2.55	0.41
11:CK:66:LEU:C	11:CK:68:ALA:N	2.77	0.41
12:CL:35:GLY:O	12:CL:83:VAL:N	2.52	0.41
13:CM:33:ALA:HB1	13:CM:59:TYR:HD2	1.86	0.41
13:CM:112:GLY:C	13:CM:113:PRO:HG2	2.46	0.41
15:CO:65:ARG:HH11	15:CO:65:ARG:CG	2.26	0.41
22:CV:51:G:H2'	22:CV:52:C:C6	2.55	0.41
23:CW:19:G:C6	23:CW:60:A:C6	3.09	0.41
25:D0:7:LEU:CD2	48:DQ:81:VAL:HB	2.50	0.41
25:D0:36:ILE:HD12	25:D0:38:VAL:N	2.36	0.41
27:D2:50:ILE:C	27:D2:52:ASP:N	2.77	0.41
31:D6:14:THR:CG2	31:D6:52:VAL:HG11	2.50	0.41
35:DA:579:G:H2'	35:DA:580:C:C6	2.56	0.41
35:DA:736:C:H2'	35:DA:737:C:C6	2.56	0.41
35:DA:818:G:H4'	35:DA:838:C:O3'	2.21	0.41
35:DA:923:C:H2'	35:DA:924:C:H6	1.86	0.41
35:DA:1670:C:O2	39:DE:129:HIS:CE1	2.73	0.41
35:DA:1705:G:O2'	35:DA:1706:U:H5'	2.20	0.41
35:DA:2032:G:OP2	35:DA:2454:G:O2'	2.34	0.41
35:DA:2762:G:H2'	35:DA:2763:G:C5'	2.48	0.41
36:DB:7:G:H5'	36:DB:8:U:OP2	2.20	0.41
36:DB:112:U:H2'	36:DB:113:G:C8	2.55	0.41
38:DD:26:LYS:O	38:DD:27:THR:CG2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:136:ILE:HA	38:DD:137:PRO:HD3	1.92	0.41
38:DD:200:ASP:O	38:DD:201:HIS:C	2.62	0.41
39:DE:38:THR:O	39:DE:40:GLU:N	2.53	0.41
41:DG:46:ALA:CB	41:DG:82:LEU:HD21	2.50	0.41
41:DG:51:ARG:HE	41:DG:51:ARG:CA	2.32	0.41
41:DG:71:THR:N	41:DG:89:GLY:O	2.43	0.41
41:DG:102:PHE:O	41:DG:103:LEU:C	2.63	0.41
41:DG:102:PHE:HE1	41:DG:141:PHE:HE1	1.66	0.41
41:DG:125:PHE:HB3	41:DG:130:ASN:O	2.19	0.41
42:DH:41:MET:HG3	42:DH:43:VAL:HG13	2.02	0.41
43:DI:127:VAL:HG13	43:DI:138:ILE:O	2.19	0.41
47:DP:85:LEU:HD23	47:DP:115:LEU:O	2.19	0.41
51:DT:83:ILE:CG1	51:DT:84:GLN:N	2.62	0.41
51:DT:122:ASP:O	51:DT:124:ASP:N	2.52	0.41
52:DU:90:VAL:C	52:DU:92:ARG:N	2.78	0.41
56:DY:9:LYS:HG3	56:DY:11:ASP:OD2	2.20	0.41
56:DY:52:SER:N	56:DY:53:PRO:HD2	2.34	0.41
57:DZ:100:VAL:N	57:DZ:124:ILE:O	2.41	0.41
1:AA:64:G:N2	1:AA:68:G:O6	2.43	0.41
1:AA:221:C:H2'	1:AA:222:U:C6	2.54	0.41
1:AA:408:A:H5'	4:AD:116:GLN:HB2	2.02	0.41
1:AA:589:C:O2'	1:AA:590:C:H5'	2.20	0.41
1:AA:815:A:N6	1:AA:1509:C:H1'	2.35	0.41
1:AA:939:G:H2'	1:AA:940:C:H6	1.80	0.41
1:AA:1053:G:O5'	1:AA:1054:C:H3'	2.21	0.41
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.50	0.41
1:AA:1199:U:H4'	10:AJ:54:PHE:CE1	2.55	0.41
2:AB:97:TRP:CH2	2:AB:176:GLU:OE2	2.74	0.41
4:AD:3:ARG:HD3	4:AD:3:ARG:N	2.35	0.41
4:AD:187:ARG:HG2	4:AD:187:ARG:NH1	2.33	0.41
7:AG:105:VAL:HG12	7:AG:109:ASN:HD21	1.85	0.41
8:AH:64:LYS:HD2	8:AH:79:VAL:HG21	2.01	0.41
8:AH:134:ILE:HG22	8:AH:135:CYS:SG	2.60	0.41
12:AL:68:ALA:CB	12:AL:85:ILE:HD11	2.47	0.41
22:AV:20:G:C3'	22:AV:21:U:C5'	2.89	0.41
22:AV:73:C:C2'	22:AV:74:C:H5'	2.50	0.41
23:AW:22:U:O2	23:AW:22:U:O4'	2.35	0.41
23:AW:40:A:H2	23:AW:41:C:H3'	1.66	0.41
22:AY:70:G:N1	22:AY:71:G:C6	2.89	0.41
25:B0:36:ILE:HD12	25:B0:37:LEU:N	2.36	0.41
28:B3:17:LYS:HE2	35:BA:969:U:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:25:TYR:O	41:BG:105:LYS:HD3	2.21	0.41
31:B6:10:LEU:HD23	31:B6:10:LEU:N	2.26	0.41
34:B9:1:MET:HE1	34:B9:32:HIS:CD2	2.55	0.41
35:BA:435:C:H2'	35:BA:436:C:H5'	2.02	0.41
35:BA:495:G:O2'	54:BW:62:HIS:HE1	2.03	0.41
35:BA:1286:A:H2'	35:BA:1288:U:OP2	2.20	0.41
35:BA:1532:C:H2'	35:BA:1533:G:C5'	2.50	0.41
35:BA:1713:U:C2	35:BA:1747:G:N1	2.89	0.41
35:BA:2010:G:H5"	54:BW:42:ARG:HB2	2.01	0.41
35:BA:2165:G:H2'	35:BA:2166:G:O4'	2.21	0.41
35:BA:2607:G:H2'	35:BA:2608:G:O4'	2.20	0.41
35:BA:2642:G:O2'	35:BA:2643:G:H5'	2.20	0.41
35:BA:2849:U:O4	51:BT:23:ARG:NH2	2.54	0.41
36:BB:68:C:O2'	36:BB:69:G:H5'	2.21	0.41
39:BE:117:MET:HA	39:BE:122:PHE:N	2.35	0.41
41:BG:12:TYR:HA	41:BG:16:ARG:HB2	2.03	0.41
41:BG:161:THR:HG22	41:BG:162:THR:N	2.35	0.41
42:BH:38:SER:HA	42:BH:39:PRO:HD3	1.93	0.41
43:BI:54:GLN:HA	43:BI:57:ARG:HB3	2.01	0.41
43:BI:73:GLU:HB2	43:BI:137:PRO:O	2.21	0.41
43:BI:74:ASN:C	43:BI:76:THR:N	2.79	0.41
45:BN:131:GLN:OE1	45:BN:131:GLN:HA	2.19	0.41
49:BR:99:LYS:HD3	49:BR:99:LYS:N	2.35	0.41
51:BT:10:VAL:O	51:BT:13:ARG:HG2	2.21	0.41
51:BT:32:TYR:CG	51:BT:81:PRO:HB3	2.55	0.41
52:BU:92:ARG:HD2	53:BV:11:GLN:HB2	2.02	0.41
55:BX:27:THR:HA	55:BX:80:ILE:HA	2.02	0.41
1:CA:176:C:H2'	1:CA:177:C:H6	1.86	0.41
1:CA:189(B):C:O2'	1:CA:189(C):C:H5'	2.20	0.41
1:CA:754:C:H3'	1:CA:754:C:O2	2.20	0.41
1:CA:781:A:C2'	1:CA:782:A:H5'	2.51	0.41
1:CA:946:A:H2'	1:CA:947:G:C8	2.55	0.41
1:CA:1281:U:O2'	1:CA:1282:C:OP1	2.35	0.41
1:CA:1321:C:H5"	1:CA:1322:C:H2'	2.02	0.41
2:CB:48:MET:CE	2:CB:52:GLU:HB2	2.50	0.41
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.19	0.41
3:CC:115:LEU:C	3:CC:117:ALA:N	2.78	0.41
4:CD:74:GLN:HA	4:CD:77:ASN:ND2	2.29	0.41
4:CD:148:VAL:CG1	4:CD:152:SER:HB2	2.50	0.41
7:CG:139:GLU:O	7:CG:143:ARG:N	2.53	0.41
8:CH:82:HIS:HB3	8:CH:138:TRP:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:17:VAL:HG22	9:CI:63:ILE:CD1	2.46	0.41
9:CI:48:GLU:OE2	9:CI:51:ARG:HB2	2.20	0.41
9:CI:97:LYS:HB3	9:CI:98:PRO:CD	2.39	0.41
13:CM:86:CYS:SG	13:CM:88:ARG:HG3	2.60	0.41
18:CR:57:GLY:O	18:CR:58:LEU:C	2.64	0.41
22:CV:20:G:N2	22:CV:58:C:N3	2.68	0.41
22:CV:78:A:C8	35:DA:2602:A:N6	2.88	0.41
22:CY:9:A:C6	22:CY:48:G:C2	3.09	0.41
22:CY:60:A:N7	57:DZ:184:ALA:CA	2.76	0.41
25:D0:51:VAL:HG23	25:D0:81:VAL:HG23	2.01	0.41
25:D0:68:GLU:OE2	25:D0:82:ARG:HB2	2.21	0.41
28:D3:17:LYS:O	28:D3:20:LYS:N	2.54	0.41
29:D4:9:LEU:C	29:D4:9:LEU:HD13	2.45	0.41
31:D6:8:LYS:HD2	31:D6:27:LYS:HG2	2.03	0.41
32:D7:19:ARG:HG2	32:D7:19:ARG:NH1	2.34	0.41
35:DA:146:G:H2'	35:DA:147:U:O4'	2.20	0.41
35:DA:271(A):A:H1'	35:DA:365:C:O4'	2.19	0.41
35:DA:272(J):C:N3	35:DA:363:G:O6	2.53	0.41
35:DA:322:A:H5'	35:DA:340:A:O4'	2.21	0.41
35:DA:322:A:P	40:DF:169:ASN:HB2	2.61	0.41
35:DA:720:C:H2'	35:DA:721:C:C6	2.54	0.41
35:DA:816:C:O2'	35:DA:817:C:H5'	2.19	0.41
35:DA:1215:G:O2'	35:DA:1216:G:H5'	2.20	0.41
35:DA:2124:G:O2'	37:DC:41:THR:HB	2.20	0.41
35:DA:2192:G:C3'	35:DA:2193:G:H5"	2.50	0.41
35:DA:2807:G:H2'	35:DA:2808:U:C5'	2.43	0.41
35:DA:2883:A:C5'	35:DA:2884:U:H5'	2.51	0.41
35:DA:2887:U:H2'	35:DA:2888:C:H6	1.85	0.41
38:DD:79:VAL:CG2	38:DD:111:LEU:HD11	2.46	0.41
38:DD:85:ASP:OD1	38:DD:85:ASP:C	2.64	0.41
40:DF:93:LYS:HA	40:DF:93:LYS:HD3	1.78	0.41
40:DF:187:VAL:C	40:DF:189:THR:N	2.78	0.41
45:DN:19:GLU:O	45:DN:60:ILE:HA	2.21	0.41
46:DO:2:ILE:CG2	46:DO:8:LEU:HD21	2.50	0.41
46:DO:13:ASN:C	46:DO:15:GLY:N	2.79	0.41
46:DO:119:PRO:HB2	51:DT:68:TYR:CZ	2.55	0.41
48:DQ:42:ILE:CG2	48:DQ:47:ILE:HG13	2.50	0.41
51:DT:81:PRO:O	51:DT:83:ILE:N	2.53	0.41
51:DT:99:LEU:HB2	51:DT:101:PHE:CE2	2.55	0.41
51:DT:127:ALA:O	51:DT:129:ARG:N	2.54	0.41
55:DX:12:VAL:O	55:DX:13:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:13:VAL:HG21	56:DY:72:VAL:HB	2.03	0.41
57:DZ:176:PRO:HB2	57:DZ:177:PRO:HD2	2.01	0.41
1:AA:26:A:N6	1:AA:558:G:H1'	2.35	0.41
1:AA:503:C:OP2	12:AL:116:SER:OG	2.35	0.41
1:AA:540:G:H2'	1:AA:541:G:O4'	2.21	0.41
1:AA:668:G:O2'	1:AA:669:U:H5'	2.21	0.41
1:AA:763:G:O2'	1:AA:764:C:H5'	2.20	0.41
1:AA:824:C:H4'	8:AH:1:MET:N	2.33	0.41
1:AA:832:C:O2'	1:AA:833:U:P	2.78	0.41
1:AA:1015:A:H1'	1:AA:1218:C:O2'	2.21	0.41
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.19	0.41
1:AA:1306:A:H2'	1:AA:1307:U:C6	2.56	0.41
1:AA:1498:U:O2'	1:AA:1499:A:P	2.79	0.41
2:AB:80:ILE:HG21	2:AB:211:ILE:O	2.21	0.41
2:AB:135:GLN:O	2:AB:139:LYS:HB2	2.21	0.41
3:AC:59:ARG:NH1	3:AC:97:LYS:HZ2	2.18	0.41
3:AC:67:THR:HG22	3:AC:69:HIS:CD2	2.56	0.41
4:AD:26:CYS:HA	4:AD:31:CYS:CB	2.47	0.41
4:AD:79:PHE:O	4:AD:82:ALA:HB3	2.21	0.41
4:AD:96:LEU:N	4:AD:96:LEU:CD1	2.84	0.41
4:AD:109:GLY:O	4:AD:111:ALA:N	2.54	0.41
5:AE:139:LEU:HD23	5:AE:142:LEU:HD11	2.02	0.41
7:AG:44:TYR:O	7:AG:45:ASP:C	2.63	0.41
8:AH:21:LYS:O	8:AH:65:TYR:OH	2.37	0.41
8:AH:38:ILE:C	8:AH:40:ALA:N	2.78	0.41
8:AH:84:ARG:HH11	8:AH:84:ARG:HG2	1.85	0.41
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	2.03	0.41
9:AI:55:ALA:HA	9:AI:58:HIS:CD2	2.44	0.41
10:AJ:91:PRO:CB	10:AJ:94:VAL:HB	2.51	0.41
11:AK:106:LYS:O	11:AK:107:SER:HB3	2.21	0.41
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.68	0.41
13:AM:85:GLY:O	13:AM:86:CYS:SG	2.79	0.41
13:AM:116:THR:O	13:AM:117:VAL:C	2.63	0.41
19:AS:16:LEU:HD12	19:AS:16:LEU:N	2.23	0.41
19:AS:53:ASN:HD22	19:AS:58:VAL:CG1	2.33	0.41
22:AV:36:AG9:H2G	22:AV:36:AG9:NH2	2.35	0.41
23:AW:45:U:C4	23:AW:46:U:C4	3.08	0.41
22:AY:5:C:C2	22:AY:71:G:N1	2.88	0.41
22:AY:15:G:N2	22:AY:23:A:N3	2.69	0.41
22:AY:32:G:H3'	22:AY:33:G:H8	1.86	0.41
26:B1:29:GLY:C	26:B1:30:VAL:HG22	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:76:ARG:NE	35:BA:271(R):G:OP1	2.54	0.41
29:B4:10:VAL:CG1	29:B4:11:PRO:HD2	2.50	0.41
35:BA:118:A:H1'	35:BA:178:G:O4'	2.20	0.41
35:BA:143(A):C:H4'	55:BX:38:GLU:OE2	2.21	0.41
35:BA:154(A):C:H3'	35:BA:155:U:H4'	2.02	0.41
35:BA:158:U:C2'	35:BA:171:G:O5'	2.68	0.41
35:BA:272(J):C:N3	35:BA:363:G:O6	2.54	0.41
35:BA:314:A:H2'	35:BA:315:G:H8	1.84	0.41
35:BA:773:U:H4'	38:BD:47:GLY:CA	2.50	0.41
35:BA:845:G:O2'	35:BA:846:C:H5	2.04	0.41
35:BA:866:A:H2	35:BA:867:C:C4	2.38	0.41
35:BA:1178:C:H2'	35:BA:1179:C:C6	2.56	0.41
35:BA:1485:G:H1'	35:BA:1505:C:N4	2.28	0.41
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.85	0.41
35:BA:2092:U:C4	35:BA:2226:C:OP2	2.74	0.41
35:BA:2124:G:H1'	37:BC:43:GLU:OE1	2.19	0.41
35:BA:2309:A:H2'	35:BA:2309:A:N3	2.35	0.41
35:BA:2629:A:H2'	35:BA:2629:A:N3	2.35	0.41
35:BA:2869:G:H2'	35:BA:2870:C:O4'	2.20	0.41
36:BB:112:U:H2'	36:BB:113:G:C8	2.55	0.41
37:BC:36:ALA:HB3	37:BC:40:GLU:HG2	2.03	0.41
38:BD:133:LEU:HD13	38:BD:173:VAL:HG11	2.03	0.41
39:BE:105:THR:HG23	39:BE:166:THR:OG1	2.19	0.41
41:BG:16:ARG:N	41:BG:17:PRO:HD2	2.36	0.41
41:BG:66:GLN:HB2	41:BG:92:VAL:HG21	2.02	0.41
42:BH:20:ALA:CB	42:BH:23:ARG:HB2	2.51	0.41
50:BS:83:LYS:O	50:BS:105:ALA:N	2.48	0.41
51:BT:28:VAL:CG2	51:BT:46:GLU:HG3	2.51	0.41
54:BW:47:VAL:CA	54:BW:50:VAL:HG12	2.50	0.41
55:BX:12:VAL:HG13	55:BX:27:THR:O	2.20	0.41
56:BY:100:ALA:O	56:BY:101:LYS:CB	2.68	0.41
57:BZ:82:ARG:NH1	57:BZ:83:PRO:O	2.54	0.41
57:BZ:104:PHE:HA	57:BZ:141:VAL:HG21	2.03	0.41
1:CA:7:G:H2'	5:CE:119:LEU:HD22	2.02	0.41
1:CA:46:G:O2'	1:CA:365:U:H1'	2.20	0.41
1:CA:109:A:C6	1:CA:326:G:C6	3.09	0.41
1:CA:586:C:H1'	1:CA:878:G:O2'	2.20	0.41
1:CA:736:C:C2	1:CA:737:A:N7	2.88	0.41
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	2.03	0.41
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.86	0.41
1:CA:1080:A:H5"	5:CE:16:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1130:A:C2	1:CA:1146:A:H1'	2.56	0.41
1:CA:1330:U:C5	1:CA:1331:G:C5	3.08	0.41
2:CB:170:GLU:C	2:CB:172:ILE:N	2.77	0.41
3:CC:129:ALA:HB3	3:CC:132:ARG:HB3	2.02	0.41
4:CD:26:CYS:HA	4:CD:31:CYS:CB	2.44	0.41
4:CD:52:SER:N	4:CD:55:ALA:HB3	2.35	0.41
4:CD:185:PHE:O	4:CD:186:LEU:C	2.64	0.41
5:CE:18:ARG:HH22	5:CE:25:ARG:HD2	1.86	0.41
5:CE:144:THR:H	5:CE:147:ASP:HB2	1.86	0.41
6:CF:98:LEU:HD12	6:CF:98:LEU:N	2.34	0.41
11:CK:126:ARG:HH11	11:CK:126:ARG:CB	2.30	0.41
13:CM:13:LYS:HA	13:CM:44:ARG:NH1	2.23	0.41
13:CM:68:GLY:N	13:CM:71:ARG:HB3	2.36	0.41
16:CP:60:LEU:C	16:CP:63:GLY:H	2.29	0.41
18:CR:68:LYS:NZ	18:CR:71:LYS:NZ	2.69	0.41
19:CS:9:VAL:O	19:CS:11:VAL:N	2.53	0.41
22:CV:14:A:C8	22:CV:24:A:C2	3.08	0.41
22:CV:51:G:OP1	22:CV:52:C:OP2	2.39	0.41
22:CV:53:U:C1'	22:CV:66:G:N2	2.78	0.41
23:CW:11:C:C2'	23:CW:12:U:O4'	2.68	0.41
23:CW:23:A:C6	23:CW:48:G:C4	3.08	0.41
23:CW:37:A:C2	23:CW:38:U:C2	3.08	0.41
22:CY:8:U:C2	22:CY:15:G:O6	2.73	0.41
22:CY:34:C:O2	22:CY:34:C:H2'	2.21	0.41
22:CY:57:U:C2'	57:DZ:182:LYS:NZ	2.82	0.41
27:D2:12:GLU:HA	27:D2:15:LYS:HE2	2.03	0.41
30:D5:51:TYR:CD2	30:D5:52:TYR:HB2	2.56	0.41
31:D6:12:GLU:HG2	31:D6:23:THR:CG2	2.37	0.41
33:D8:6:THR:CA	33:D8:61:LEU:HD11	2.45	0.41
33:D8:56:GLU:O	33:D8:59:LYS:N	2.36	0.41
34:D9:33:LYS:HE3	35:DA:2526:G:HO2'	1.85	0.41
35:DA:501:A:OP1	56:DY:19:LYS:NZ	2.50	0.41
35:DA:848:G:H5'	35:DA:848:G:C8	2.55	0.41
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.56	0.41
35:DA:1504:C:O2'	35:DA:1505:C:C5'	2.68	0.41
35:DA:2052:G:O4'	39:DE:142:GLY:HA3	2.20	0.41
35:DA:2647:U:H2'	35:DA:2648:C:C6	2.56	0.41
37:DC:41:THR:HB	37:DC:218:THR:OG1	2.20	0.41
38:DD:268:ARG:HH11	38:DD:268:ARG:CB	2.23	0.41
40:DF:40:GLN:NE2	40:DF:184:TYR:HB3	2.35	0.41
41:DG:34:LEU:CD1	41:DG:172:LEU:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:72:ILE:O	42:DH:75:ALA:HB3	2.20	0.41
42:DH:119:GLU:CG	42:DH:120:GLY:N	2.83	0.41
43:DI:9:LEU:H	43:DI:13:GLY:HA2	1.86	0.41
43:DI:9:LEU:H	43:DI:13:GLY:CA	2.34	0.41
43:DI:52:ARG:C	43:DI:54:GLN:H	2.28	0.41
44:DJ:88:UNK:C	44:DJ:90:UNK:H	2.33	0.41
45:DN:62:VAL:HG11	45:DN:67:LEU:CD2	2.45	0.41
47:DP:23:PRO:HB3	47:DP:29:LYS:HB3	2.02	0.41
47:DP:59:LEU:HA	47:DP:61:ARG:HH11	1.73	0.41
49:DR:39:PRO:O	49:DR:40:LYS:C	2.64	0.41
49:DR:72:ASP:OD2	49:DR:74:LYS:HB3	2.20	0.41
50:DS:59:LYS:HB3	50:DS:65:VAL:HG22	2.01	0.41
51:DT:3:ARG:O	51:DT:4:GLY:C	2.63	0.41
51:DT:65:LYS:NZ	51:DT:66:VAL:H	2.19	0.41
51:DT:85:LYS:O	51:DT:86:ILE:C	2.63	0.41
53:DV:15:GLU:O	53:DV:16:PRO:C	2.63	0.41
56:DY:76:CYS:O	56:DY:78:ALA:N	2.53	0.41
57:DZ:51:ALA:O	57:DZ:52:SER:HB3	2.21	0.41
1:AA:227:G:H2'	1:AA:228:A:H8	1.83	0.41
1:AA:268:C:H2'	1:AA:269:C:H6	1.86	0.41
1:AA:443:C:H2'	1:AA:444:C:H6	1.85	0.41
1:AA:625:G:O2'	1:AA:626:U:H5'	2.20	0.41
1:AA:962:C:H2'	1:AA:963:G:C8	2.54	0.41
1:AA:975:A:C4'	1:AA:976:G:H5"	2.31	0.41
2:AB:41:ILE:HD12	2:AB:41:ILE:H	1.86	0.41
2:AB:74:LYS:HD2	2:AB:166:ASP:CB	2.50	0.41
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.24	0.41
4:AD:57:ARG:NH2	5:AE:107:ARG:NH1	2.69	0.41
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.54	0.41
4:AD:101:LEU:C	4:AD:103:ASN:H	2.28	0.41
4:AD:132:ARG:HD2	4:AD:133:VAL:N	2.36	0.41
4:AD:134:ASP:O	4:AD:136:PRO:HD3	2.21	0.41
5:AE:72:GLN:C	5:AE:74:GLY:N	2.69	0.41
6:AF:89:MET:SD	18:AR:76:LEU:CD2	3.09	0.41
13:AM:111:LYS:O	13:AM:113:PRO:HD2	2.21	0.41
15:AO:54:ARG:CD	15:AO:58:MET:HE2	2.43	0.41
16:AP:68:ASP:O	16:AP:70:ALA:N	2.53	0.41
18:AR:87:ARG:HB3	18:AR:87:ARG:NH1	2.35	0.41
20:AT:16:HIS:O	20:AT:19:SER:N	2.52	0.41
22:AV:4:C:C2	22:AV:5:C:C4	3.08	0.41
22:AV:33:G:C4	22:AV:34:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:3:G:C4	23:AW:4:C:C5	3.08	0.41
22:AY:5:C:O2	22:AY:70:G:C2	2.74	0.41
22:AY:28:G:N2	22:AY:29:A:C4	2.89	0.41
25:B0:73:GLY:O	25:B0:75:LEU:N	2.54	0.41
26:B1:19:GLN:CB	26:B1:35:THR:HG23	2.47	0.41
26:B1:51:VAL:CG2	26:B1:53:VAL:HG23	2.50	0.41
29:B4:26:SER:O	29:B4:27:THR:HB	2.20	0.41
35:BA:8:A:H2	35:BA:2896:C:O2	2.03	0.41
35:BA:307:G:H21	35:BA:330:A:H62	1.67	0.41
35:BA:545:C:C3'	35:BA:547:A:C5'	2.96	0.41
35:BA:1379:A:N3	35:BA:1379:A:O4'	2.53	0.41
35:BA:2300:G:H1	35:BA:2316:C:N4	2.14	0.41
35:BA:2405:G:H1'	35:BA:2412:A:N6	2.36	0.41
35:BA:2526:G:H5'	35:BA:2742:C:O2'	2.21	0.41
35:BA:2612:C:C5	35:BA:2613:U:H5	2.38	0.41
36:BB:50:G:OP2	50:BS:62:LYS:CG	2.67	0.41
38:BD:45:ASN:HD22	38:BD:50:THR:HG21	1.86	0.41
39:BE:59:VAL:CG1	39:BE:60:ASN:N	2.84	0.41
39:BE:115:GLY:O	39:BE:116:VAL:C	2.64	0.41
40:BF:70:THR:HG22	40:BF:72:ARG:HG2	2.01	0.41
42:BH:143:GLN:O	42:BH:144:VAL:C	2.63	0.41
43:BI:113:ARG:O	43:BI:114:LEU:HD23	2.20	0.41
46:BO:113:LYS:O	46:BO:117:LEU:HB2	2.21	0.41
49:BR:96:ARG:HB2	49:BR:117:VAL:CG2	2.51	0.41
50:BS:59:LYS:HB3	50:BS:65:VAL:HG22	2.03	0.41
53:BV:56:SER:O	53:BV:100:ARG:O	2.39	0.41
1:CA:229:U:H2'	1:CA:230:G:O4'	2.21	0.41
1:CA:338:A:C6	1:CA:339:C:C4	3.08	0.41
1:CA:394:G:H2'	1:CA:395:C:H6	1.86	0.41
1:CA:431:A:O2'	1:CA:432:A:H5'	2.20	0.41
1:CA:433:C:H2'	1:CA:434:U:H6	1.85	0.41
1:CA:621:A:H2'	1:CA:622:A:C8	2.56	0.41
1:CA:630:G:C2'	1:CA:631:G:C5'	2.97	0.41
1:CA:656:C:H2'	1:CA:657:G:C8	2.55	0.41
1:CA:743:U:O2'	1:CA:744:C:H5'	2.20	0.41
1:CA:931:C:H2'	1:CA:932:C:H6	1.86	0.41
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.56	0.41
1:CA:1288:A:O4'	1:CA:1353:G:H4'	2.20	0.41
1:CA:1400:C:N4	22:CV:36:AG9:C6	2.82	0.41
2:CB:12:GLU:O	2:CB:14:GLY:N	2.54	0.41
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:40:ARG:HG2	3:CC:55:VAL:CB	2.51	0.41
3:CC:40:ARG:HG3	3:CC:40:ARG:HH11	1.85	0.41
3:CC:118:GLN:HA	3:CC:187:ALA:CB	2.49	0.41
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.34	0.41
4:CD:192:GLU:O	4:CD:193:ASP:C	2.64	0.41
9:CI:28:VAL:O	9:CI:29:ASN:C	2.63	0.41
9:CI:53:VAL:HG23	9:CI:55:ALA:N	2.36	0.41
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.35	0.41
13:CM:7:VAL:O	13:CM:7:VAL:HG12	2.21	0.41
13:CM:27:LYS:HE3	13:CM:31:LYS:NZ	2.36	0.41
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.35	0.41
16:CP:20:VAL:HG23	16:CP:34:GLU:C	2.46	0.41
18:CR:35:ARG:C	18:CR:37:VAL:N	2.78	0.41
19:CS:69:HIS:HB2	19:CS:74:PHE:CE2	2.52	0.41
20:CT:36:LEU:HD12	20:CT:55:ILE:HD12	2.03	0.41
22:CV:51:G:OP1	22:CV:51:G:H3'	2.20	0.41
22:CY:4:C:C2	22:CY:5:C:C6	3.08	0.41
22:CY:49:G:C2'	22:CY:50:C:H5'	2.50	0.41
27:D2:2:LYS:N	35:DA:98:G:OP1	2.54	0.41
30:D5:8:LYS:HB2	35:DA:2054:A:C2	2.55	0.41
30:D5:41:PRO:O	30:D5:42:PRO:C	2.63	0.41
31:D6:28:ARG:CB	31:D6:28:ARG:HH11	2.33	0.41
31:D6:53:LYS:HA	31:D6:53:LYS:HD2	1.81	0.41
32:D7:47:ARG:HH11	55:DX:60:ARG:NH2	2.19	0.41
35:DA:11:G:N2	35:DA:2628:C:OP1	2.53	0.41
35:DA:80:G:C2'	35:DA:81:G:H5'	2.51	0.41
35:DA:191:A:O2'	35:DA:192:C:H5'	2.20	0.41
35:DA:392:C:H5"	35:DA:409:C:H5"	2.02	0.41
35:DA:471:A:H2'	35:DA:472:A:O4'	2.21	0.41
35:DA:654(M):C:C2	35:DA:654(O):G:N2	2.88	0.41
35:DA:807:U:O2'	35:DA:808:G:H5'	2.20	0.41
35:DA:993:G:O2'	53:DV:89:GLN:HG3	2.20	0.41
35:DA:1311:G:C2	55:DX:60:ARG:NH1	2.87	0.41
35:DA:1773:A:C2'	35:DA:1774:C:H5'	2.50	0.41
35:DA:1773:A:H2'	35:DA:1774:C:H5'	2.02	0.41
35:DA:1882:C:O2	35:DA:1882:C:H2'	2.21	0.41
35:DA:2070:G:H2'	35:DA:2071:A:C8	2.56	0.41
35:DA:2393:A:C2'	35:DA:2394:C:H5'	2.51	0.41
35:DA:2428:G:H5"	35:DA:2429:G:O5'	2.21	0.41
35:DA:2572:A:N7	39:DE:144:ARG:HD2	2.35	0.41
35:DA:2720:U:C2	35:DA:2721:A:C8	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:35:U:O2'	36:DB:36:C:H5'	2.21	0.41
36:DB:81:G:H2'	36:DB:82:G:H5'	2.02	0.41
38:DD:145:VAL:HG11	38:DD:175:LEU:CD1	2.50	0.41
38:DD:211:ARG:HA	38:DD:214:TRP:CD2	2.56	0.41
41:DG:60:LEU:HD12	41:DG:68:PRO:HD3	2.03	0.41
41:DG:62:LEU:C	41:DG:64:THR:H	2.29	0.41
42:DH:94:TYR:CD2	42:DH:107:VAL:HB	2.56	0.41
42:DH:143:GLN:O	42:DH:144:VAL:C	2.64	0.41
43:DI:29:TYR:CE1	43:DI:33:ARG:NE	2.60	0.41
45:DN:128:HIS:HE1	45:DN:134:ARG:NH1	2.18	0.41
47:DP:85:LEU:HD12	47:DP:120:ALA:CA	2.51	0.41
47:DP:101:VAL:CB	47:DP:107:LYS:HA	2.36	0.41
48:DQ:32:TYR:O	48:DQ:106:VAL:HG22	2.21	0.41
54:DW:18:ARG:HG2	54:DW:76:VAL:CG1	2.50	0.41
1:AA:152:A:N6	1:AA:170:U:C2	2.89	0.41
1:AA:322:C:O2'	1:AA:323:U:H5'	2.20	0.41
1:AA:420:U:C5	1:AA:422:C:N3	2.88	0.41
1:AA:1003:G:N2	1:AA:1039:C:N4	2.69	0.41
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.83	0.41
1:AA:1305:G:C5'	21:AU:4:GLY:HA3	2.47	0.41
1:AA:1330:U:C5	1:AA:1331:G:C5	3.09	0.41
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.85	0.41
1:AA:1407:C:H6	1:AA:1407:C:O5'	2.03	0.41
4:AD:100:ARG:NH2	4:AD:136:PRO:O	2.53	0.41
4:AD:158:ILE:CG2	4:AD:181:MET:HE1	2.51	0.41
4:AD:166:LYS:HE3	4:AD:166:LYS:HB2	1.89	0.41
4:AD:180:GLY:O	4:AD:181:MET:HB2	2.21	0.41
8:AH:44:PHE:HA	8:AH:79:VAL:CG1	2.50	0.41
9:AI:99:LEU:HD12	9:AI:101:PHE:CE1	2.56	0.41
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.85	0.41
12:AL:35:GLY:O	12:AL:83:VAL:N	2.53	0.41
13:AM:15:VAL:O	13:AM:18:ALA:N	2.54	0.41
16:AP:56:ALA:HB1	16:AP:74:LEU:CD2	2.51	0.41
16:AP:60:LEU:C	16:AP:63:GLY:H	2.29	0.41
17:AQ:62:SER:OG	17:AQ:72:ARG:HG3	2.21	0.41
19:AS:63:THR:HG23	19:AS:65:ASN:OD1	2.21	0.41
22:AV:3:G:O6	22:AV:4:C:N4	2.53	0.41
27:B2:38:GLN:HA	27:B2:41:ILE:HG12	2.01	0.41
27:B2:42:GLY:O	27:B2:43:GLN:C	2.63	0.41
33:B8:56:GLU:HA	33:B8:59:LYS:HZ1	1.82	0.41
35:BA:128:C:O2'	35:BA:129:C:O5'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:146:G:O2'	35:BA:147:U:H5'	2.20	0.41
35:BA:154(A):C:O2	35:BA:154(A):C:H2'	2.20	0.41
35:BA:631:A:O2'	47:BP:67:MET:HB3	2.20	0.41
35:BA:843:G:C2'	35:BA:844:C:H5'	2.51	0.41
35:BA:861:A:C2	35:BA:917:A:C4	3.09	0.41
35:BA:902:C:H2'	35:BA:903:C:H6	1.83	0.41
35:BA:1053:C:O2	35:BA:1053:C:H2'	2.20	0.41
35:BA:1541:G:H1'	35:BA:1542:A:C6	2.55	0.41
35:BA:1578:U:H2'	35:BA:1579:A:C5'	2.50	0.41
35:BA:1882:C:H3'	35:BA:1883:G:H8	1.86	0.41
35:BA:2052:G:N3	39:BE:149:ARG:HA	2.36	0.41
35:BA:2417:C:C4	35:BA:2418:A:N7	2.88	0.41
35:BA:2532:G:O2'	35:BA:2657:A:N6	2.51	0.41
37:BC:202:PRO:HB2	37:BC:205:ALA:HB2	2.03	0.41
38:BD:61:LEU:HA	38:BD:61:LEU:HD12	1.83	0.41
38:BD:118:VAL:CG2	38:BD:119:ALA:H	2.24	0.41
39:BE:10:GLY:C	51:BT:8:LYS:HD3	2.45	0.41
40:BF:32:LEU:HD11	40:BF:105:VAL:HG13	2.02	0.41
40:BF:187:VAL:C	40:BF:189:THR:N	2.79	0.41
41:BG:9:ARG:C	41:BG:11:TYR:N	2.79	0.41
41:BG:18:GLU:HA	41:BG:18:GLU:OE1	2.21	0.41
41:BG:178:PHE:HA	41:BG:179:PRO:HD2	1.92	0.41
42:BH:61:HIS:O	42:BH:64:LEU:N	2.52	0.41
42:BH:89:ILE:O	42:BH:89:ILE:CG1	2.68	0.41
45:BN:23:LEU:HB2	45:BN:60:ILE:HG21	2.03	0.41
47:BP:47:ASP:CB	47:BP:48:PRO:HA	2.47	0.41
48:BQ:103:MET:CE	48:BQ:125:LEU:HD13	2.50	0.41
48:BQ:134:ARG:NH2	57:BZ:122:ARG:NE	2.69	0.41
49:BR:13:HIS:O	49:BR:13:HIS:ND1	2.54	0.41
53:BV:18:LEU:N	53:BV:18:LEU:HD12	2.35	0.41
53:BV:82:ARG:C	53:BV:83:ARG:HG2	2.46	0.41
56:BY:32:PRO:O	56:BY:35:TYR:N	2.50	0.41
57:BZ:95:PRO:HA	57:BZ:128:VAL:O	2.21	0.41
57:BZ:110:GLY:C	57:BZ:112:ARG:H	2.29	0.41
57:BZ:120:ILE:HB	57:BZ:171:ILE:O	2.21	0.41
1:CA:266:G:O2'	1:CA:267:C:OP2	2.32	0.41
1:CA:401:C:C6	1:CA:401:C:H3'	2.56	0.41
1:CA:553:A:H2'	1:CA:554:C:C6	2.56	0.41
1:CA:669:U:O2'	1:CA:670:G:H5'	2.20	0.41
1:CA:677:U:H3	1:CA:714:G:N2	2.18	0.41
1:CA:728:A:N6	15:CO:54:ARG:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:730:G:C5	1:CA:731:G:H1'	2.56	0.41
1:CA:751:U:OP1	15:CO:18:PHE:HZ	2.04	0.41
1:CA:1060:C:C4	3:CC:2:GLY:HA2	2.56	0.41
1:CA:1066:C:H3'	1:CA:1067:A:C8	2.56	0.41
1:CA:1069:C:O2'	1:CA:1192:C:H1'	2.20	0.41
1:CA:1168:A:H2'	1:CA:1169:A:C8	2.56	0.41
1:CA:1514:C:H2'	1:CA:1515:C:H6	1.85	0.41
2:CB:74:LYS:HD2	2:CB:166:ASP:HB2	2.03	0.41
4:CD:76:ARG:HH11	4:CD:76:ARG:HG2	1.85	0.41
7:CG:77:SER:HB3	7:CG:86:GLN:HB3	2.03	0.41
7:CG:146:GLU:O	7:CG:149:ARG:CB	2.69	0.41
13:CM:74:VAL:O	13:CM:78:ILE:HG13	2.20	0.41
14:CN:34:TYR:O	14:CN:36:PHE:N	2.54	0.41
14:CN:40:CYS:O	14:CN:44:LEU:HB3	2.21	0.41
19:CS:44:MET:O	19:CS:45:VAL:C	2.64	0.41
20:CT:13:LEU:N	20:CT:13:LEU:HD12	2.35	0.41
22:CV:20:G:C4	22:CV:59:G:N3	2.89	0.41
22:CV:26:G:O2'	35:DA:1923:U:H5"	2.20	0.41
22:CV:59:G:C2'	22:CV:60:A:H5'	2.50	0.41
23:CW:40:A:N6	23:CW:42:C:C2	2.88	0.41
25:D0:49:LYS:O	25:D0:50:ASN:HB2	2.21	0.41
25:D0:74:ARG:HH11	25:D0:74:ARG:CG	2.33	0.41
26:D1:64:ALA:HA	26:D1:67:ILE:HG13	2.01	0.41
31:D6:26:ASN:CG	31:D6:27:LYS:H	2.28	0.41
31:D6:54:ILE:O	31:D6:54:ILE:HD12	2.21	0.41
33:D8:7:HIS:HB2	33:D8:59:LYS:HB3	2.02	0.41
35:DA:957:A:C6	35:DA:2459:A:C8	3.09	0.41
35:DA:1014:U:C2'	35:DA:1015:G:C5'	2.89	0.41
35:DA:1401:G:H2'	35:DA:1402:C:C6	2.56	0.41
35:DA:1843:C:H5'	38:DD:253:GLN:OE1	2.21	0.41
35:DA:2472:G:C2'	35:DA:2475:C:H42	2.34	0.41
35:DA:2553:G:H3'	35:DA:2554:U:H5"	2.01	0.41
35:DA:2689:U:H5"	35:DA:2690:C:H5'	2.01	0.41
39:DE:52:LEU:O	39:DE:74:PRO:CA	2.66	0.41
39:DE:64:LYS:O	39:DE:73:GLU:OE2	2.38	0.41
39:DE:70:ALA:O	39:DE:71:GLY:C	2.61	0.41
39:DE:137:HIS:HB3	39:DE:138:PRO:HD2	2.03	0.41
39:DE:179:GLU:HB3	39:DE:181:LEU:HD22	2.02	0.41
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	2.21	0.41
41:DG:36:LYS:HE2	41:DG:95:ARG:HH22	1.85	0.41
42:DH:44:VAL:O	42:DH:46:GLU:CD	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:83:TYR:CD2	42:DH:134:SER:HB3	2.56	0.41
43:DI:74:ASN:ND2	43:DI:75:LEU:H	2.18	0.41
47:DP:66:GLY:O	47:DP:67:MET:HB3	2.21	0.41
56:DY:39:VAL:CG1	56:DY:40:GLU:N	2.82	0.41
56:DY:87:LYS:O	56:DY:88:LYS:HB2	2.20	0.41
56:DY:95:LYS:CD	56:DY:101:LYS:H	2.33	0.41
56:DY:97:ARG:HD2	56:DY:97:ARG:HA	1.93	0.41
1:AA:172:A:H5'	1:AA:173:U:OP2	2.21	0.41
1:AA:290:C:O2'	1:AA:291:C:H5'	2.21	0.41
1:AA:460:G:N2	1:AA:471:G:N7	2.69	0.41
1:AA:605:U:H2'	1:AA:606:G:H8	1.85	0.41
1:AA:963:G:H1	1:AA:972:C:H42	1.69	0.41
1:AA:971:G:H22	1:AA:1363(A):A:P	2.44	0.41
1:AA:1129:C:OP1	1:AA:1130:A:H5"	2.20	0.41
1:AA:1168:A:H2'	1:AA:1169:A:C8	2.56	0.41
1:AA:1206:G:C6	1:AA:1207:G:C5	3.09	0.41
1:AA:1296:C:H5"	1:AA:1297:C:H5	1.86	0.41
1:AA:1301:U:H3'	1:AA:1302:U:H5"	2.03	0.41
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.04	0.41
2:AB:67:THR:CB	2:AB:155:LEU:HD21	2.51	0.41
2:AB:74:LYS:HD2	2:AB:166:ASP:HB2	2.02	0.41
4:AD:30:LYS:HB3	4:AD:35:ARG:CZ	2.51	0.41
4:AD:100:ARG:HH11	4:AD:100:ARG:HG2	1.85	0.41
4:AD:118:ARG:O	4:AD:119:GLN:C	2.64	0.41
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.85	0.41
4:AD:194:LEU:O	4:AD:195:ALA:HB2	2.21	0.41
5:AE:63:ARG:HH11	5:AE:63:ARG:HG2	1.86	0.41
7:AG:13:GLN:HA	7:AG:14:PRO:HD3	1.91	0.41
8:AH:61:VAL:O	8:AH:63:LEU:HD22	2.20	0.41
9:AI:53:VAL:CG2	9:AI:55:ALA:HB3	2.50	0.41
10:AJ:78:ASN:HB2	10:AJ:81:THR:OG1	2.20	0.41
12:AL:40:VAL:CG1	12:AL:77:LEU:HB3	2.51	0.41
13:AM:78:ILE:C	13:AM:80:ARG:N	2.77	0.41
15:AO:27:VAL:C	15:AO:29:VAL:N	2.77	0.41
16:AP:25:ARG:HG3	16:AP:25:ARG:NH1	2.36	0.41
17:AQ:59:ILE:HG22	17:AQ:60:ILE:N	2.36	0.41
17:AQ:65:ILE:HD11	17:AQ:72:ARG:CG	2.51	0.41
19:AS:70:LYS:N	19:AS:70:LYS:HE3	2.36	0.41
22:AV:31:C:C2	22:AV:32:G:C8	3.09	0.41
22:AV:54:G:C6	22:AV:65:G:C6	3.08	0.41
23:AW:11:C:H3'	23:AW:12:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:70:G:C4	23:AW:71:G:N7	2.89	0.41
22:AY:7:U:H3'	22:AY:8:U:C5'	2.51	0.41
22:AY:27:C:C5	22:AY:28:G:N7	2.89	0.41
22:AY:28:G:C6	22:AY:29:A:C6	3.09	0.41
22:AY:49:G:OP1	22:AY:49:G:O4'	2.38	0.41
22:AY:71:G:C2	22:AY:72:C:C6	3.09	0.41
25:B0:41:ARG:HD3	25:B0:41:ARG:HA	1.88	0.41
25:B0:55:ARG:HG3	35:BA:2365:G:OP1	2.21	0.41
26:B1:52:ARG:O	26:B1:53:VAL:O	2.39	0.41
27:B2:24:LEU:HD23	27:B2:60:LEU:HD22	2.02	0.41
27:B2:63:VAL:C	27:B2:65:ASN:H	2.27	0.41
28:B3:18:ASP:O	28:B3:21:ALA:HB3	2.20	0.41
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.84	0.41
30:B5:23:HIS:O	30:B5:24:ALA:C	2.63	0.41
30:B5:42:PRO:HB2	30:B5:43:HIS:HD2	1.86	0.41
31:B6:39:TYR:CE1	35:BA:2347:C:OP1	2.74	0.41
33:B8:21:LYS:HD3	33:B8:48:PHE:CE2	2.55	0.41
35:BA:110:G:O2'	35:BA:111:A:H5'	2.21	0.41
35:BA:146:G:H8	35:BA:146:G:C5'	2.34	0.41
35:BA:360:G:H2'	35:BA:361:G:O4'	2.20	0.41
35:BA:654(M):C:C2	35:BA:654(O):G:N2	2.89	0.41
35:BA:821:A:H2'	35:BA:946:G:H5"	2.02	0.41
35:BA:825:C:H2'	35:BA:826:U:O4'	2.21	0.41
35:BA:826:U:H2'	35:BA:828:U:O4'	2.21	0.41
35:BA:1373:A:H2'	35:BA:1374:G:O4'	2.20	0.41
35:BA:1494:A:H2'	35:BA:1495:A:C5'	2.32	0.41
35:BA:1824:G:OP1	38:BD:52:ARG:NH1	2.52	0.41
35:BA:2065:C:H2'	35:BA:2066:C:C6	2.56	0.41
35:BA:2120:G:H2'	35:BA:2121:G:H8	1.86	0.41
35:BA:2134:A:H61	35:BA:2157:G:C2'	2.34	0.41
35:BA:2152:G:H2'	35:BA:2153:G:H8	1.82	0.41
35:BA:2271:G:H2'	35:BA:2272:U:H6	1.85	0.41
35:BA:2319:G:C5	35:BA:2320:A:N6	2.89	0.41
35:BA:2553:G:H3'	35:BA:2554:U:H5"	2.03	0.41
35:BA:2745:C:H2'	35:BA:2746:U:H6	1.83	0.41
35:BA:2815:C:H2'	35:BA:2816:C:C6	2.53	0.41
35:BA:2848:G:H3'	51:BT:95:ARG:O	2.21	0.41
35:BA:2894:G:N3	35:BA:2894:G:C2'	2.80	0.41
36:BB:64:C:H2'	36:BB:65:C:C6	2.56	0.41
37:BC:26:ALA:C	37:BC:28:ARG:N	2.78	0.41
37:BC:34:ALA:CA	37:BC:40:GLU:HG3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:176:ARG:NH1	38:BD:176:ARG:CG	2.84	0.41
39:BE:12:THR:OG1	39:BE:13:ARG:N	2.53	0.41
39:BE:55:ASN:ND2	39:BE:75:VAL:HG22	2.36	0.41
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	2.21	0.41
39:BE:74:PRO:O	39:BE:75:VAL:C	2.63	0.41
39:BE:111:ARG:HG2	49:BR:2:ARG:NH1	2.36	0.41
39:BE:199:ARG:HB2	39:BE:199:ARG:NH1	2.36	0.41
40:BF:32:LEU:O	40:BF:36:VAL:HG23	2.21	0.41
41:BG:61:ALA:CB	41:BG:67:LYS:HA	2.46	0.41
41:BG:76:SER:HA	41:BG:83:ARG:HB3	2.02	0.41
41:BG:174:GLU:C	41:BG:176:LEU:N	2.78	0.41
43:BI:52:ARG:HE	43:BI:52:ARG:HB2	1.75	0.41
43:BI:58:LEU:C	43:BI:60:GLU:H	2.29	0.41
43:BI:109:ILE:HG21	43:BI:114:LEU:HD11	2.02	0.41
45:BN:58:ASP:O	45:BN:59:LYS:CB	2.69	0.41
47:BP:83:VAL:HG13	47:BP:83:VAL:O	2.21	0.41
48:BQ:59:ARG:O	48:BQ:60:ARG:HB2	2.20	0.41
50:BS:36:TYR:HD1	50:BS:36:TYR:H	1.66	0.41
50:BS:65:VAL:O	50:BS:69:VAL:HG12	2.20	0.41
50:BS:95:HIS:C	50:BS:98:VAL:HG23	2.46	0.41
51:BT:3:ARG:NH1	51:BT:3:ARG:HG2	2.36	0.41
51:BT:19:LEU:HD22	51:BT:85:LYS:HD3	2.03	0.41
51:BT:32:TYR:CG	51:BT:81:PRO:CB	3.04	0.41
51:BT:106:SER:O	51:BT:107:ASP:CG	2.63	0.41
52:BU:37:GLU:O	52:BU:40:PHE:HB2	2.21	0.41
53:BV:19:LYS:HE2	53:BV:19:LYS:CA	2.50	0.41
53:BV:24:LYS:HA	53:BV:92:THR:HG23	2.03	0.41
54:BW:19:LEU:HA	54:BW:19:LEU:HD12	1.83	0.41
56:BY:7:VAL:HB	56:BY:8:LYS:CE	2.50	0.41
56:BY:52:SER:N	56:BY:53:PRO:HD2	2.35	0.41
57:BZ:111:VAL:HG22	57:BZ:116:VAL:CA	2.51	0.41
1:CA:152:A:N6	1:CA:170:U:C2	2.89	0.41
1:CA:192:U:H2'	1:CA:193:C:H6	1.78	0.41
1:CA:401:C:P	4:CD:73:ARG:HH21	2.44	0.41
1:CA:429:U:H1'	1:CA:430:A:H5"	2.02	0.41
1:CA:447:G:O2'	1:CA:448:A:O4'	2.34	0.41
1:CA:602:A:O2'	1:CA:603:U:H5'	2.20	0.41
1:CA:640:A:O2'	1:CA:641:U:H5'	2.20	0.41
1:CA:741:G:H2'	1:CA:742:G:H8	1.85	0.41
1:CA:998:G:O2'	1:CA:999:C:H5'	2.21	0.41
1:CA:1087:G:H2'	1:CA:1088:G:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1142:G:C8	1:CA:1143:G:C8	3.09	0.41
1:CA:1264:C:H2'	1:CA:1265:G:H8	1.83	0.41
1:CA:1294:G:H2'	1:CA:1295:G:H8	1.86	0.41
1:CA:1306:A:H2'	1:CA:1307:U:C6	2.56	0.41
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.20	0.41
2:CB:74:LYS:O	2:CB:75:LYS:C	2.63	0.41
2:CB:95:GLN:NE2	2:CB:147:LYS:CE	2.79	0.41
2:CB:102:LEU:HD23	2:CB:182:ILE:CD1	2.48	0.41
2:CB:169:LYS:HD2	2:CB:170:GLU:OE2	2.21	0.41
3:CC:71:ALA:HB3	3:CC:109:PRO:HB3	2.03	0.41
3:CC:92:ALA:HB2	3:CC:99:VAL:HG22	2.03	0.41
3:CC:206:GLU:CG	3:CC:207:VAL:H	2.17	0.41
4:CD:58:LEU:HD23	4:CD:62:GLN:HG2	2.01	0.41
4:CD:118:ARG:O	4:CD:121:VAL:N	2.54	0.41
4:CD:187:ARG:HG2	4:CD:187:ARG:NH1	2.34	0.41
5:CE:147:ASP:HA	5:CE:150:ARG:HH11	1.85	0.41
6:CF:8:ILE:HG22	6:CF:10:LEU:HD12	2.03	0.41
7:CG:46:ALA:O	7:CG:49:ILE:N	2.54	0.41
7:CG:47:CYS:HA	7:CG:50:ILE:HG12	2.02	0.41
7:CG:135:VAL:O	7:CG:138:LYS:N	2.54	0.41
8:CH:6:ILE:O	8:CH:7:ALA:C	2.63	0.41
8:CH:21:LYS:O	8:CH:65:TYR:OH	2.39	0.41
8:CH:102:ARG:HD3	8:CH:102:ARG:N	2.36	0.41
8:CH:133:LEU:HD23	8:CH:134:ILE:N	2.35	0.41
10:CJ:4:ILE:CG1	10:CJ:74:ILE:HD11	2.51	0.41
10:CJ:32:ALA:H	10:CJ:78:ASN:HD22	1.69	0.41
11:CK:69:ALA:O	11:CK:73:MET:HG2	2.21	0.41
12:CL:85:ILE:HD12	12:CL:85:ILE:HA	1.85	0.41
12:CL:86:ARG:N	12:CL:99:HIS:O	2.54	0.41
13:CM:82:MET:HG2	13:CM:82:MET:O	2.20	0.41
13:CM:116:THR:O	13:CM:117:VAL:C	2.63	0.41
15:CO:18:PHE:O	15:CO:20:GLY:N	2.53	0.41
17:CQ:66:SER:C	17:CQ:67:LYS:O	2.61	0.41
17:CQ:95:TYR:O	17:CQ:96:GLU:C	2.63	0.41
18:CR:50:ILE:HD12	18:CR:70:ILE:CD1	2.51	0.41
19:CS:42:PRO:HG3	29:D4:50:VAL:HG21	2.02	0.41
22:CV:4:C:C2	22:CV:5:C:C6	3.09	0.41
22:CV:43:G:C2	22:CV:44:A:C4	3.09	0.41
22:CV:73:C:C4	22:CV:74:C:C5	3.08	0.41
23:CW:6:C:C2	23:CW:7:U:C5	3.09	0.41
23:CW:45:U:C5	23:CW:46:U:C4	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:72:C:C2'	23:CW:73:C:O4'	2.65	0.41
22:CY:3:G:N2	22:CY:73:C:C2	2.89	0.41
27:D2:48:HIS:O	27:D2:50:ILE:N	2.54	0.41
27:D2:50:ILE:O	27:D2:51:ARG:C	2.62	0.41
27:D2:64:LEU:O	27:D2:64:LEU:HD23	2.20	0.41
28:D3:3:ARG:HB2	28:D3:59:VAL:O	2.20	0.41
30:D5:3:LYS:CE	35:DA:2613:U:H2'	2.50	0.41
30:D5:43:HIS:HE1	35:DA:2884:U:OP2	2.04	0.41
32:D7:8:ASN:ND2	32:D7:10:ARG:N	2.68	0.41
35:DA:218:A:C2	35:DA:235:U:H4'	2.56	0.41
35:DA:229:A:C5'	35:DA:230:U:H5'	2.51	0.41
35:DA:279:C:H2'	35:DA:280:C:C6	2.56	0.41
35:DA:435:C:H2'	35:DA:436:C:H5'	2.03	0.41
35:DA:797:C:O2'	35:DA:798:G:H5'	2.21	0.41
35:DA:820:A:C2	35:DA:821:A:C4	3.09	0.41
35:DA:825:C:H2'	35:DA:826:U:O4'	2.20	0.41
35:DA:1262:A:P	54:DW:99:ARG:HH12	2.44	0.41
35:DA:1379:A:O4'	35:DA:1379:A:N3	2.53	0.41
35:DA:1438:U:O2'	35:DA:1439:A:H5'	2.21	0.41
35:DA:1529:G:O2'	35:DA:1530:C:H5'	2.21	0.41
35:DA:1536:C:O2'	35:DA:1537:G:H5'	2.20	0.41
35:DA:2120:G:H2'	35:DA:2121:G:H8	1.86	0.41
35:DA:2319:G:C4	35:DA:2320:A:C6	3.08	0.41
35:DA:2362:G:O2'	35:DA:2363:C:H5'	2.21	0.41
35:DA:2417:C:C4	35:DA:2418:A:N7	2.89	0.41
35:DA:2463:C:C2'	35:DA:2464:C:H5'	2.50	0.41
35:DA:2702:U:H4'	35:DA:2703:C:OP1	2.21	0.41
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.21	0.41
36:DB:17:C:O2'	36:DB:18:G:H5'	2.21	0.41
37:DC:26:ALA:C	37:DC:28:ARG:N	2.78	0.41
38:DD:27:THR:HG23	38:DD:83:GLU:HB3	2.02	0.41
38:DD:65:ILE:HD11	38:DD:67:PHE:CD2	2.56	0.41
38:DD:65:ILE:H	38:DD:65:ILE:CD1	2.34	0.41
38:DD:263:ARG:HB2	38:DD:263:ARG:HH11	1.84	0.41
39:DE:2:LYS:HD3	39:DE:95:ILE:O	2.21	0.41
39:DE:23:VAL:HA	39:DE:184:VAL:O	2.21	0.41
39:DE:59:VAL:CG1	39:DE:60:ASN:N	2.84	0.41
39:DE:132:HIS:O	39:DE:135:HIS:CD2	2.74	0.41
40:DF:65:TRP:CZ3	40:DF:75:HIS:HD2	2.39	0.41
41:DG:34:LEU:HD12	41:DG:34:LEU:N	2.36	0.41
41:DG:64:THR:OG1	41:DG:94:LEU:HD21	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:166:ASP:O	41:DG:170:ARG:N	2.54	0.41
42:DH:50:VAL:CG1	42:DH:51:ARG:N	2.82	0.41
42:DH:86:GLU:HB2	42:DH:131:VAL:O	2.21	0.41
43:DI:68:LEU:CG	43:DI:72:LEU:HD11	2.51	0.41
43:DI:107:VAL:O	43:DI:109:ILE:CD1	2.69	0.41
45:DN:65:LYS:HD2	45:DN:69:GLN:NE2	2.35	0.41
46:DO:14:THR:HG22	46:DO:95:GLY:N	2.35	0.41
47:DP:39:LYS:HD3	47:DP:39:LYS:HA	1.51	0.41
47:DP:41:ARG:NE	47:DP:41:ARG:CA	2.84	0.41
47:DP:88:LEU:N	47:DP:88:LEU:CD1	2.83	0.41
47:DP:106:LEU:HB3	47:DP:107:LYS:H	1.67	0.41
48:DQ:3:MET:O	48:DQ:4:PRO:C	2.61	0.41
48:DQ:10:ARG:CB	48:DQ:10:ARG:CZ	2.99	0.41
48:DQ:118:LEU:CD1	48:DQ:131:ILE:HG23	2.51	0.41
49:DR:99:LYS:HD3	49:DR:99:LYS:N	2.36	0.41
51:DT:65:LYS:HZ1	51:DT:66:VAL:H	1.67	0.41
51:DT:66:VAL:HA	51:DT:71:GLY:HA2	2.02	0.41
51:DT:107:ASP:CG	51:DT:108:ARG:N	2.72	0.41
53:DV:14:VAL:HB	53:DV:96:ILE:HG13	2.02	0.41
53:DV:16:PRO:O	53:DV:96:ILE:O	2.39	0.41
53:DV:39:LEU:CD1	53:DV:47:VAL:HG11	2.49	0.41
54:DW:19:LEU:HD12	54:DW:19:LEU:HA	1.85	0.41
56:DY:86:ARG:NH1	56:DY:95:LYS:HZ1	2.17	0.41
57:DZ:19:ARG:NH1	57:DZ:84:GLU:HA	2.22	0.41
57:DZ:150:LEU:O	57:DZ:171:ILE:CD1	2.68	0.41
57:DZ:151:HIS:CB	57:DZ:170:THR:HA	2.44	0.41
1:AA:229:U:H2'	1:AA:230:G:O4'	2.21	0.41
1:AA:266:G:O2'	1:AA:267:C:OP2	2.36	0.41
1:AA:436:C:O2'	1:AA:437:U:P	2.79	0.41
1:AA:448:A:C5	1:AA:487:A:C2	3.08	0.41
1:AA:452:A:C4'	16:AP:72:ARG:NH1	2.84	0.41
1:AA:553:A:H2'	1:AA:554:C:C6	2.55	0.41
1:AA:603:U:H2'	1:AA:604:G:H8	1.86	0.41
1:AA:663:A:H5"	18:AR:61:LYS:HE2	2.03	0.41
1:AA:779:C:H2'	1:AA:780:A:O4'	2.21	0.41
1:AA:1170:A:H2'	1:AA:1171:G:C5'	2.51	0.41
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.21	0.41
1:AA:1305:G:N2	1:AA:1331:G:N3	2.69	0.41
2:AB:16:HIS:CD2	2:AB:210:SER:HA	2.56	0.41
3:AC:74:GLY:C	3:AC:76:VAL:H	2.27	0.41
4:AD:46:LYS:O	4:AD:48:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:59:ARG:CA	4:AD:59:ARG:NE	2.75	0.41
4:AD:103:ASN:C	4:AD:105:VAL:N	2.77	0.41
4:AD:185:PHE:O	4:AD:186:LEU:C	2.64	0.41
6:AF:97:PHE:HB2	18:AR:32:ARG:NH2	2.36	0.41
7:AG:6:ARG:HG2	7:AG:6:ARG:O	2.21	0.41
7:AG:16:LEU:HD11	9:AI:42:ARG:CG	2.50	0.41
7:AG:46:ALA:C	7:AG:48:LYS:N	2.78	0.41
7:AG:54:THR:O	7:AG:54:THR:HG23	2.20	0.41
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.34	0.41
8:AH:91:ARG:NH2	17:AQ:32:TYR:HA	2.36	0.41
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.70	0.41
11:AK:25:TYR:H	11:AK:25:TYR:HD1	1.69	0.41
11:AK:66:LEU:O	11:AK:67:ASP:C	2.64	0.41
12:AL:117:ARG:HB3	12:AL:122:THR:O	2.21	0.41
13:AM:86:CYS:C	13:AM:88:ARG:N	2.79	0.41
14:AN:29:ARG:NH1	14:AN:31:ARG:HB2	2.34	0.41
16:AP:20:VAL:HG23	16:AP:34:GLU:C	2.45	0.41
19:AS:44:MET:O	19:AS:45:VAL:C	2.63	0.41
22:AV:20:G:C5	22:AV:59:G:C2	3.09	0.41
22:AV:68:A:C6	22:AV:69:G:C5	3.08	0.41
23:AW:2:G:C5	23:AW:75:A:C2	3.09	0.41
23:AW:5:C:O2	23:AW:72:C:N3	2.54	0.41
23:AW:9:A:C4	23:AW:47:G:C2	3.09	0.41
23:AW:58:C:O5’	23:AW:58:C:H6	2.03	0.41
22:AY:41:C:C4	22:AY:42:C:N4	2.88	0.41
22:AY:55:G:N2	57:BZ:183:LEU:CD2	2.84	0.41
29:B4:1:MET:N	36:BB:43:C:H4’	2.36	0.41
30:B5:8:LYS:HB2	35:BA:2054:A:C2	2.56	0.41
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.54	0.41
32:B7:15:THR:HG22	32:B7:16:HIS:ND1	2.36	0.41
35:BA:303:U:O2’	35:BA:304:G:H5’	2.21	0.41
35:BA:493:G:H2’	35:BA:494:G:O4’	2.21	0.41
35:BA:576:U:H2’	35:BA:577:G:C8	2.56	0.41
35:BA:614(A):U:H4’	35:BA:614(B):G:H5”	2.03	0.41
35:BA:832:G:O2’	47:BP:52:GLU:HB3	2.20	0.41
35:BA:1047:G:N3	35:BA:1111:A:N6	2.69	0.41
35:BA:1203:G:H3’	35:BA:1204:A:H5”	2.03	0.41
35:BA:1487:G:N3	35:BA:1487:G:H2’	2.36	0.41
35:BA:1678:G:H22	35:BA:1989:G:H1	1.68	0.41
35:BA:1829:A:H2’	35:BA:1830:C:H5’	2.04	0.41
35:BA:1983:C:H4’	35:BA:2606:C:H4’	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2881:C:H2'	35:BA:2882:A:H8	1.86	0.41
35:BA:2883:A:C5'	35:BA:2884:U:H5'	2.51	0.41
37:BC:47:LYS:CB	37:BC:212:SER:HB3	2.50	0.41
38:BD:18:VAL:HG12	38:BD:19:ALA:O	2.20	0.41
38:BD:150:LYS:HA	38:BD:150:LYS:HD3	1.85	0.41
39:BE:55:ASN:HD22	39:BE:55:ASN:HA	1.51	0.41
45:BN:1:MET:H1	53:BV:20:LEU:CD2	2.33	0.41
45:BN:46:VAL:O	45:BN:46:VAL:HG22	2.20	0.41
47:BP:41:ARG:HH22	47:BP:45:LEU:HD12	1.84	0.41
48:BQ:3:MET:O	48:BQ:4:PRO:C	2.64	0.41
48:BQ:26:TYR:CD1	48:BQ:26:TYR:O	2.74	0.41
48:BQ:60:ARG:HA	57:BZ:178:GLU:O	2.21	0.41
48:BQ:66:ILE:O	48:BQ:66:ILE:HG13	2.21	0.41
48:BQ:134:ARG:HG3	48:BQ:134:ARG:HH11	1.85	0.41
50:BS:54:LEU:HD22	50:BS:58:LEU:N	2.34	0.41
51:BT:52:ILE:HG12	51:BT:61:PHE:CB	2.51	0.41
53:BV:15:GLU:O	53:BV:16:PRO:C	2.64	0.41
1:CA:147:G:N2	1:CA:176:C:C2	2.90	0.41
1:CA:366:C:O2'	1:CA:367:U:P	2.79	0.41
1:CA:473:G:C5'	16:CP:81:ARG:HE	2.34	0.41
1:CA:505:G:H2'	1:CA:506:G:C8	2.55	0.41
1:CA:620:C:N1	4:CD:135:LEU:HD23	2.36	0.41
1:CA:937:A:C2	1:CA:1379:G:C6	3.09	0.41
1:CA:1129:C:N4	1:CA:1135:U:N3	2.64	0.41
1:CA:1206:G:C6	1:CA:1207:G:C5	3.09	0.41
1:CA:1281:U:O2'	1:CA:1282:C:P	2.78	0.41
1:CA:1347:G:C2	9:CI:107:ARG:NH2	2.89	0.41
2:CB:17:PHE:CD1	2:CB:17:PHE:C	2.98	0.41
2:CB:84:GLU:HA	2:CB:87:ARG:HB3	2.03	0.41
3:CC:90:GLU:HA	3:CC:93:LYS:HB3	2.03	0.41
4:CD:118:ARG:O	4:CD:119:GLN:C	2.64	0.41
4:CD:173:TRP:C	4:CD:186:LEU:HD12	2.46	0.41
5:CE:31:LEU:HD21	5:CE:43:LEU:CD1	2.50	0.41
7:CG:16:LEU:HD11	9:CI:42:ARG:CG	2.51	0.41
10:CJ:6:ILE:HD12	10:CJ:6:ILE:C	2.44	0.41
12:CL:117:ARG:HG3	12:CL:117:ARG:HH11	1.86	0.41
14:CN:2:ALA:O	14:CN:6:LEU:HD12	2.21	0.41
15:CO:70:LEU:O	15:CO:70:LEU:HD23	2.20	0.41
19:CS:50:ALA:HA	19:CS:58:VAL:O	2.22	0.41
22:CV:14:A:C6	22:CV:15:G:N3	2.89	0.41
23:CW:44:A:H3'	23:CW:45:U:H5"	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:71:G:C8	23:CW:71:G:C3'	3.04	0.41
27:D2:47:ASN:ND2	35:DA:94(A):G:N3	2.67	0.41
35:DA:275:G:H5"	35:DA:275:G:N3	2.35	0.41
35:DA:484:C:P	56:DY:49:VAL:HG13	2.61	0.41
35:DA:512:G:OP1	35:DA:1235:G:H5'	2.21	0.41
35:DA:626:U:C5'	35:DA:627:A:C5'	2.99	0.41
35:DA:1266:G:O5'	54:DW:15:ARG:NH2	2.54	0.41
35:DA:1385:G:O2'	35:DA:1396:U:C6	2.68	0.41
35:DA:1498:C:O4'	35:DA:1577:C:C4'	2.69	0.41
35:DA:1678:G:H22	35:DA:1989:G:H1	1.69	0.41
35:DA:1861:G:H2'	35:DA:1862:G:H8	1.86	0.41
35:DA:2307:G:N3	35:DA:2307:G:H5"	2.36	0.41
35:DA:2309:A:N3	35:DA:2309:A:H2'	2.35	0.41
35:DA:2723:C:O3'	49:DR:2:ARG:NH2	2.53	0.41
35:DA:2772:C:H2'	35:DA:2773:C:H6	1.85	0.41
35:DA:2822:G:O6	49:DR:4:LEU:HD23	2.21	0.41
36:DB:87:G:N1	36:DB:91:C:N4	2.69	0.41
38:DD:166:GLN:HE21	38:DD:166:GLN:N	2.19	0.41
38:DD:183:ARG:HH11	38:DD:183:ARG:HG2	1.85	0.41
38:DD:201:HIS:O	38:DD:204:ILE:HG12	2.21	0.41
40:DF:165:ARG:HB3	40:DF:165:ARG:NH1	2.32	0.41
41:DG:96:ARG:CA	41:DG:99:MET:HE2	2.44	0.41
42:DH:9:ILE:HG23	42:DH:50:VAL:HB	2.03	0.41
42:DH:66:GLY:HA2	42:DH:69:ARG:HB3	2.02	0.41
42:DH:86:GLU:HA	42:DH:132:ARG:HA	2.03	0.41
43:DI:79:ILE:H	43:DI:141:LYS:HB2	1.86	0.41
45:DN:55:VAL:HG22	45:DN:126:PRO:CA	2.44	0.41
45:DN:61:ARG:HD3	45:DN:61:ARG:HA	1.77	0.41
45:DN:103:VAL:HG21	45:DN:120:LEU:HD11	2.02	0.41
45:DN:136:GLU:HG2	45:DN:137:LYS:N	2.36	0.41
50:DS:36:TYR:HD1	50:DS:36:TYR:H	1.69	0.41
51:DT:12:SER:O	51:DT:13:ARG:NH2	2.54	0.41
51:DT:26:ASP:OD1	51:DT:26:ASP:C	2.63	0.41
51:DT:52:ILE:HG12	51:DT:61:PHE:HB2	2.03	0.41
51:DT:65:LYS:HZ1	51:DT:66:VAL:N	2.19	0.41
51:DT:77:PRO:O	51:DT:78:LEU:CB	2.69	0.41
52:DU:61:TRP:CH2	52:DU:94:ASN:HB2	2.55	0.41
53:DV:46:VAL:HG22	53:DV:47:VAL:N	2.27	0.41
53:DV:82:ARG:HD2	53:DV:82:ARG:N	2.36	0.41
54:DW:61:ASN:N	54:DW:61:ASN:HD22	2.18	0.41
56:DY:52:SER:O	56:DY:53:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:189:G:C6	1:AA:189(L):G:C6	3.09	0.40
1:AA:189(B):C:O2'	1:AA:189(C):C:H5'	2.21	0.40
1:AA:285:G:O2'	1:AA:286:G:H5'	2.21	0.40
1:AA:779:C:H4'	11:AK:121:PRO:O	2.22	0.40
1:AA:1003:G:N2	1:AA:1038:C:H42	2.19	0.40
1:AA:1059:C:P	3:AC:199:LYS:NZ	2.94	0.40
1:AA:1069:C:O2'	1:AA:1192:C:H1'	2.21	0.40
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.85	0.40
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.85	0.40
1:AA:1442(B):A:C8	51:BT:118:ARG:HD3	2.56	0.40
2:AB:236:TYR:HA	2:AB:239:VAL:CG2	2.46	0.40
4:AD:49:ARG:O	4:AD:51:PRO:HD3	2.21	0.40
6:AF:21:LEU:O	6:AF:24:GLU:HB3	2.21	0.40
6:AF:99:ALA:HB3	18:AR:29:PHE:CE1	2.55	0.40
7:AG:46:ALA:O	7:AG:49:ILE:N	2.54	0.40
12:AL:45:PRO:HG2	12:AL:51:ALA:CA	2.51	0.40
13:AM:16:ASP:N	13:AM:16:ASP:OD1	2.55	0.40
14:AN:34:TYR:C	14:AN:36:PHE:N	2.76	0.40
14:AN:36:PHE:HD1	14:AN:37:PHE:N	2.19	0.40
22:AV:49:G:C2	22:AV:52:C:OP1	2.75	0.40
23:AW:23:A:C6	23:AW:48:G:C4	3.08	0.40
23:AW:30:U:C6	23:AW:31:C:C5	3.08	0.40
23:AW:37:A:C4	23:AW:38:U:C6	3.09	0.40
23:AW:42:C:C4	23:AW:43:G:C8	3.09	0.40
23:AW:43:G:C4	23:AW:44:A:C8	3.08	0.40
22:AY:52:C:N3	22:AY:66:G:O6	2.53	0.40
25:B0:5:LYS:HG3	48:BQ:80:GLU:O	2.21	0.40
29:B4:2:LYS:HD3	36:BB:44:G:OP1	2.21	0.40
31:B6:5:VAL:HG11	35:BA:2284:C:OP1	2.21	0.40
33:B8:23:VAL:HG12	33:B8:46:ARG:HB3	2.01	0.40
35:BA:767:U:O2'	35:BA:768:G:H5'	2.22	0.40
35:BA:814:C:O2'	35:BA:815:C:H5'	2.21	0.40
35:BA:921:G:H4'	35:BA:2269:A:C5	2.57	0.40
35:BA:1498:C:O4'	35:BA:1577:C:C4'	2.69	0.40
35:BA:1721:G:C2	35:BA:1739:U:OP2	2.74	0.40
35:BA:1956:U:H2'	35:BA:1957:C:H5'	2.03	0.40
35:BA:2104:G:C5	35:BA:2186:G:C2	3.10	0.40
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.22	0.40
35:BA:2864:G:H2'	35:BA:2865:U:O4'	2.21	0.40
37:BC:32:GLU:H	37:BC:32:GLU:HG2	1.70	0.40
38:BD:72:LYS:HB3	38:BD:72:LYS:NZ	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:132:PRO:HG3	38:BD:190:TYR:CE1	2.56	0.40
38:BD:252:TRP:HE3	38:BD:253:GLN:O	2.04	0.40
39:BE:48:GLN:CD	39:BE:78:LEU:HD13	2.45	0.40
39:BE:59:VAL:C	39:BE:60:ASN:CG	2.89	0.40
39:BE:82:ARG:HG3	39:BE:82:ARG:HH11	1.86	0.40
40:BF:178:PRO:HB3	40:BF:198:ALA:CB	2.51	0.40
41:BG:43:LEU:HB2	41:BG:88:ILE:HG23	2.02	0.40
42:BH:42:ARG:HH11	42:BH:42:ARG:HA	1.86	0.40
42:BH:83:TYR:CG	42:BH:134:SER:HB3	2.56	0.40
42:BH:83:TYR:N	42:BH:83:TYR:CD1	2.87	0.40
43:BI:27:ARG:NH1	43:BI:27:ARG:CG	2.82	0.40
43:BI:75:LEU:O	43:BI:76:THR:O	2.38	0.40
43:BI:109:ILE:N	43:BI:109:ILE:CD1	2.82	0.40
47:BP:47:ASP:HB2	47:BP:51:PHE:HB2	2.03	0.40
48:BQ:135:ASP:CB	57:BZ:49:ARG:HH11	2.34	0.40
49:BR:10:LEU:HD23	49:BR:21:TYR:OH	2.20	0.40
49:BR:63:ARG:NH1	49:BR:80:PHE:CG	2.89	0.40
49:BR:84:ALA:O	49:BR:85:PRO:C	2.64	0.40
52:BU:31:SER:C	52:BU:33:ARG:N	2.70	0.40
56:BY:31:LEU:CB	56:BY:32:PRO:CA	2.99	0.40
56:BY:96:ILE:CG2	56:BY:97:ARG:N	2.73	0.40
57:BZ:129:SER:O	57:BZ:132:ASN:O	2.39	0.40
1:CA:136:C:O3'	16:CP:65:GLN:NE2	2.54	0.40
1:CA:158:G:H2'	1:CA:159:G:C8	2.56	0.40
1:CA:217:C:O2'	1:CA:218:C:H5'	2.21	0.40
1:CA:363:A:C5	12:CL:31:PRO:HD2	2.56	0.40
1:CA:371:G:N2	1:CA:374:A:N6	2.68	0.40
1:CA:377:G:C2	1:CA:387:U:O2	2.74	0.40
1:CA:447:G:H1'	1:CA:487:A:H61	1.85	0.40
1:CA:774:G:OP1	38:DD:202:LYS:NZ	2.54	0.40
1:CA:1100:C:OP2	2:CB:96:ARG:HG2	2.21	0.40
1:CA:1142:G:C2'	1:CA:1143:G:H5'	2.52	0.40
1:CA:1452:C:H4'	1:CA:1456:G:O5'	2.21	0.40
1:CA:1473:A:H2'	1:CA:1474:G:H8	1.85	0.40
2:CB:30:ARG:HH21	2:CB:194:PRO:CG	2.34	0.40
2:CB:42:ILE:HD11	2:CB:202:PRO:C	2.47	0.40
2:CB:229:VAL:O	2:CB:230:VAL:O	2.39	0.40
3:CC:12:LEU:O	3:CC:18:TRP:CZ3	2.74	0.40
3:CC:22:TRP:HZ2	3:CC:36:ASP:OD2	2.05	0.40
3:CC:95:THR:C	3:CC:97:LYS:N	2.78	0.40
4:CD:15:GLU:OE1	4:CD:15:GLU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:97:PHE:HB2	18:CR:32:ARG:NH2	2.36	0.40
7:CG:13:GLN:HA	7:CG:14:PRO:HD3	1.93	0.40
7:CG:46:ALA:C	7:CG:48:LYS:N	2.78	0.40
8:CH:9:MET:SD	8:CH:32:LYS:HB3	2.61	0.40
10:CJ:34:VAL:HG13	10:CJ:74:ILE:HA	2.03	0.40
12:CL:17:LYS:HB3	12:CL:18:VAL:H	1.61	0.40
12:CL:37:CYS:N	12:CL:58:VAL:HG22	2.35	0.40
13:CM:89:GLY:C	13:CM:93:ARG:HD2	2.46	0.40
14:CN:41:ARG:HG3	14:CN:42:ILE:N	2.36	0.40
15:CO:29:VAL:O	15:CO:30:ALA:C	2.64	0.40
24:CX:19:A:H61	22:CY:38:U:H3	1.69	0.40
26:D1:72:GLU:C	26:D1:72:GLU:OE1	2.64	0.40
27:D2:30:ARG:C	27:D2:32:LEU:N	2.78	0.40
27:D2:66:GLU:O	27:D2:70:GLN:NE2	2.54	0.40
29:D4:36:CYS:HB2	41:DG:108:ASN:HB3	2.01	0.40
35:DA:332:A:O2'	35:DA:333:G:O5'	2.39	0.40
35:DA:862:G:H2'	35:DA:863:A:O4'	2.21	0.40
35:DA:1040:C:O2'	35:DA:1041:C:P	2.80	0.40
35:DA:1050:A:N1	35:DA:1051:G:C2	2.89	0.40
35:DA:1266:G:O2'	35:DA:2012:G:O6	2.38	0.40
35:DA:1885:A:H5'	35:DA:1885:A:C8	2.51	0.40
35:DA:2534:A:H2'	35:DA:2535:G:O5'	2.21	0.40
35:DA:2558:C:H2'	35:DA:2559:C:H6	1.85	0.40
35:DA:2563:U:O2	35:DA:2565:A:H8	2.03	0.40
35:DA:2692:C:H1'	35:DA:2847:U:O2'	2.20	0.40
35:DA:2697:G:H2'	35:DA:2698:U:O4'	2.20	0.40
35:DA:2822:G:H8	35:DA:2822:G:O5'	2.03	0.40
36:DB:14:U:O2	36:DB:14:U:O4'	2.38	0.40
37:DC:27:ALA:HB1	37:DC:186:LEU:HB2	2.02	0.40
38:DD:11:PRO:O	38:DD:13:ARG:N	2.55	0.40
38:DD:213:ARG:HD2	38:DD:213:ARG:HA	1.83	0.40
39:DE:55:ASN:HD22	39:DE:55:ASN:HA	1.51	0.40
40:DF:8:GLN:CD	40:DF:8:GLN:C	2.88	0.40
42:DH:43:VAL:O	42:DH:43:VAL:HG23	2.20	0.40
44:DJ:118:UNK:C	44:DJ:120:UNK:N	2.83	0.40
47:DP:18:ARG:HH11	47:DP:18:ARG:C	2.29	0.40
47:DP:75:ILE:N	47:DP:75:ILE:HD12	2.36	0.40
48:DQ:21:THR:C	48:DQ:23:GLY:H	2.29	0.40
49:DR:82:GLU:O	49:DR:86:ARG:HD3	2.21	0.40
50:DS:65:VAL:O	50:DS:69:VAL:HG12	2.21	0.40
53:DV:18:LEU:CG	53:DV:19:LYS:N	2.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:109:ALA:HB3	57:DZ:145:GLU:CA	2.51	0.40
57:DZ:155:LEU:HD23	57:DZ:155:LEU:N	2.33	0.40
1:AA:54:C:H2'	1:AA:352:C:N4	2.36	0.40
1:AA:192:U:H2'	1:AA:193:C:H6	1.79	0.40
1:AA:233:C:H2'	1:AA:234:C:C6	2.52	0.40
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.21	0.40
1:AA:375:U:O2'	16:AP:28:ARG:HD2	2.21	0.40
1:AA:394:G:H2'	1:AA:395:C:H6	1.87	0.40
1:AA:451:A:H2'	1:AA:481:G:O6	2.21	0.40
1:AA:625:G:N2	1:AA:626:U:C2	2.90	0.40
1:AA:784:C:H4'	35:BA:1837:C:OP1	2.21	0.40
1:AA:881:G:OP2	12:AL:12:ARG:NH2	2.55	0.40
1:AA:1004:A:C8	1:AA:1037:C:N3	2.89	0.40
1:AA:1228:C:C5	1:AA:1229:A:N7	2.90	0.40
1:AA:1253:G:H2'	1:AA:1254:C:C6	2.56	0.40
1:AA:1307:U:H2'	1:AA:1308:U:H6	1.86	0.40
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.86	0.40
1:AA:1423:G:C5'	46:BO:49:ARG:NH2	2.84	0.40
2:AB:21:ARG:C	2:AB:23:ARG:N	2.78	0.40
2:AB:37:ASN:C	2:AB:39:ILE:N	2.79	0.40
2:AB:101:MET:HB2	2:AB:102:LEU:HD12	2.03	0.40
2:AB:196:LEU:CD1	2:AB:197:VAL:HG23	2.51	0.40
3:AC:59:ARG:O	10:AJ:92:THR:O	2.40	0.40
3:AC:148:GLY:HA3	3:AC:203:PHE:HB3	2.02	0.40
4:AD:15:GLU:HA	4:AD:15:GLU:OE1	2.22	0.40
4:AD:36:ARG:C	4:AD:38:TYR:H	2.29	0.40
4:AD:126:ILE:HG23	4:AD:147:ALA:O	2.21	0.40
8:AH:20:TYR:HD1	8:AH:65:TYR:CD2	2.39	0.40
8:AH:23:SER:OG	8:AH:24:THR:N	2.49	0.40
8:AH:34:GLU:HB3	8:AH:118:VAL:HG21	2.03	0.40
10:AJ:46:ARG:HG2	10:AJ:46:ARG:NH1	2.36	0.40
12:AL:84:LEU:C	12:AL:84:LEU:CD2	2.94	0.40
12:AL:89:ARG:HH11	12:AL:89:ARG:CB	2.08	0.40
13:AM:40:ASN:HA	13:AM:41:PRO:HD3	1.78	0.40
13:AM:68:GLY:N	13:AM:71:ARG:HB3	2.36	0.40
16:AP:39:TYR:CD1	16:AP:39:TYR:C	2.98	0.40
18:AR:68:LYS:NZ	18:AR:71:LYS:NZ	2.70	0.40
22:AV:14:A:H5"	22:AV:15:G:C8	2.57	0.40
22:AV:37:A:H2'	22:AV:38:U:H6	1.85	0.40
23:AW:3:G:C2'	23:AW:4:C:O5'	2.69	0.40
23:AW:29:A:C4	23:AW:30:U:C6	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:64:C:O2'	37:BC:55:SER:CB	2.69	0.40
23:AW:71:G:H8	23:AW:71:G:O5'	2.02	0.40
22:AY:3:G:N2	22:AY:73:C:N1	2.69	0.40
22:AY:6:C:C2	22:AY:7:U:C5	3.09	0.40
27:B2:27:GLU:O	27:B2:30:ARG:HG2	2.22	0.40
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.50	0.40
35:BA:26:G:N1	35:BA:513:A:OP2	2.50	0.40
35:BA:417:C:H1'	35:BA:2407:G:N2	2.37	0.40
35:BA:476:G:N2	35:BA:478:A:H3'	2.36	0.40
35:BA:654(A):G:H2'	35:BA:654(B):C:H5'	2.04	0.40
35:BA:1181:C:H2'	35:BA:1182:A:H8	1.87	0.40
35:BA:2063:C:O2	35:BA:2450:A:N1	2.53	0.40
35:BA:2236:C:H2'	35:BA:2237:G:O4'	2.21	0.40
35:BA:2418:A:H2'	35:BA:2419:U:C6	2.57	0.40
35:BA:2553:G:H2'	35:BA:2554:U:C4'	2.52	0.40
35:BA:2893:G:H5'	35:BA:2894:G:C5'	2.42	0.40
37:BC:182:PRO:CB	37:BC:185:LYS:HD2	2.50	0.40
38:BD:120:GLY:O	38:BD:131:LEU:HB3	2.22	0.40
38:BD:136:ILE:HA	38:BD:137:PRO:HD3	1.92	0.40
38:BD:211:ARG:HA	38:BD:214:TRP:CD2	2.56	0.40
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.20	0.40
39:BE:120:TRP:CD2	39:BE:155:LYS:HD3	2.56	0.40
40:BF:72:ARG:HA	40:BF:72:ARG:HH11	1.86	0.40
40:BF:110:LEU:O	40:BF:110:LEU:HD22	2.21	0.40
40:BF:127:GLU:O	40:BF:129:PHE:N	2.53	0.40
41:BG:43:LEU:HB2	41:BG:88:ILE:HG21	2.03	0.40
41:BG:57:ALA:O	41:BG:59:GLU:N	2.54	0.40
42:BH:43:VAL:HG12	42:BH:52:VAL:HA	2.03	0.40
43:BI:15:VAL:C	43:BI:17:GLN:N	2.79	0.40
43:BI:35:LEU:O	43:BI:36:ALA:CB	2.69	0.40
43:BI:62:LYS:HE3	43:BI:133:HIS:C	2.46	0.40
47:BP:95:VAL:HG22	47:BP:125:VAL:HA	2.03	0.40
50:BS:56:LEU:O	50:BS:57:LYS:HB2	2.21	0.40
51:BT:3:ARG:CG	51:BT:3:ARG:NH1	2.82	0.40
51:BT:29:ARG:HG2	51:BT:86:ILE:CG2	2.49	0.40
51:BT:77:PRO:O	51:BT:78:LEU:CB	2.68	0.40
51:BT:106:SER:HB2	51:BT:110:ILE:HD11	2.03	0.40
52:BU:108:GLU:O	52:BU:111:GLU:N	2.50	0.40
54:BW:20:VAL:CG2	54:BW:21:VAL:N	2.84	0.40
56:BY:76:CYS:O	56:BY:77:PRO:C	2.64	0.40
57:BZ:24:LEU:HD12	57:BZ:41:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:97:G:O2'	1:CA:98:G:P	2.79	0.40
1:CA:238:G:O2'	1:CA:239:U:H5'	2.22	0.40
1:CA:333:G:O2'	1:CA:334:C:H5'	2.22	0.40
1:CA:346:G:H2'	1:CA:347:G:O4'	2.21	0.40
1:CA:408:A:H5'	4:CD:116:GLN:HB2	2.02	0.40
1:CA:636:U:H2'	1:CA:637:G:H8	1.82	0.40
1:CA:944:G:C2	1:CA:1340:A:C6	3.08	0.40
1:CA:1226:C:N4	13:CM:104:ARG:HG3	2.37	0.40
1:CA:1246:C:O2'	1:CA:1247:U:H5'	2.22	0.40
1:CA:1289:A:H2'	1:CA:1290:G:O4'	2.21	0.40
1:CA:1301:U:H3'	1:CA:1302:U:H5"	2.03	0.40
2:CB:36:ARG:O	2:CB:37:ASN:HB3	2.21	0.40
3:CC:182:ILE:CG1	3:CC:203:PHE:HD1	2.34	0.40
6:CF:33:TYR:N	6:CF:33:TYR:HD1	2.19	0.40
7:CG:45:ASP:HB2	7:CG:117:ALA:HB2	2.01	0.40
7:CG:59:LEU:O	7:CG:59:LEU:HG	2.21	0.40
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.44	0.40
12:CL:45:PRO:HG3	12:CL:53:ARG:CD	2.52	0.40
12:CL:53:ARG:O	12:CL:54:LYS:C	2.64	0.40
16:CP:48:TRP:CD1	16:CP:48:TRP:N	2.87	0.40
19:CS:23:ASN:O	19:CS:25:LYS:N	2.55	0.40
20:CT:73:HIS:O	20:CT:74:LYS:C	2.63	0.40
20:CT:75:ASN:ND2	20:CT:75:ASN:H	2.14	0.40
23:CW:15:G:N7	23:CW:61:A:C2	2.89	0.40
22:CY:19:G:O6	57:DZ:184:ALA:C	2.64	0.40
22:CY:31:C:N4	22:CY:43:G:H1	2.20	0.40
22:CY:32:G:H3'	22:CY:33:G:H8	1.86	0.40
25:D0:7:LEU:HD22	48:DQ:81:VAL:HB	2.03	0.40
25:D0:30:VAL:O	25:D0:30:VAL:HG23	2.21	0.40
29:D4:25:TYR:CD2	41:DG:2:PRO:HG3	2.56	0.40
31:D6:54:ILE:HG12	35:DA:2419:U:O2'	2.22	0.40
33:D8:33:ASN:HA	33:D8:36:LYS:HD3	2.02	0.40
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.20	0.40
35:DA:52:A:O2'	35:DA:53:A:H5'	2.22	0.40
35:DA:151:C:O2'	35:DA:152:G:H5'	2.21	0.40
35:DA:176:G:C5	35:DA:177:G:C6	3.09	0.40
35:DA:230:U:O2'	35:DA:231:C:H5'	2.21	0.40
35:DA:1141:U:OP2	45:DN:63:THR:OG1	2.27	0.40
35:DA:1178:C:H2'	35:DA:1179:C:C6	2.56	0.40
35:DA:1882:C:H3'	35:DA:1883:G:H8	1.86	0.40
35:DA:1902:C:H1'	38:DD:244:ARG:HG3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.21	0.40
35:DA:2195:C:H2'	35:DA:2196:C:H6	1.86	0.40
35:DA:2656:U:C2'	35:DA:2657:A:H5"	2.51	0.40
38:DD:61:LEU:HD12	38:DD:61:LEU:HA	1.84	0.40
38:DD:222:ARG:O	38:DD:223:GLY:C	2.64	0.40
40:DF:198:ALA:C	40:DF:200:GLU:N	2.78	0.40
43:DI:54:GLN:HA	43:DI:57:ARG:HB3	2.02	0.40
47:DP:13:ASN:O	47:DP:14:LYS:C	2.63	0.40
47:DP:28:GLY:C	47:DP:29:LYS:HD2	2.46	0.40
47:DP:56:SER:O	47:DP:57:THR:O	2.38	0.40
47:DP:110:TYR:CE2	47:DP:111:ARG:NH1	2.90	0.40
52:DU:92:ARG:HD2	53:DV:11:GLN:CD	2.46	0.40
54:DW:32:ALA:O	54:DW:33:ARG:C	2.62	0.40
54:DW:73:ALA:HB3	54:DW:106:ILE:CG1	2.52	0.40
56:DY:52:SER:N	56:DY:53:PRO:CD	2.84	0.40
56:DY:81:LYS:CD	56:DY:97:ARG:O	2.66	0.40
57:DZ:56:VAL:CG1	57:DZ:57:ILE:N	2.84	0.40
57:DZ:77:ASP:O	57:DZ:77:ASP:CG	2.63	0.40
57:DZ:121:HIS:CB	57:DZ:171:ILE:HA	2.48	0.40
57:DZ:144:LEU:HB3	57:DZ:174:VAL:HG21	2.03	0.40
1:AA:70:G:H1	1:AA:99:U:H3	1.68	0.40
1:AA:137:C:H42	1:AA:226:G:H1	1.68	0.40
1:AA:308:C:H2'	1:AA:309:G:C8	2.51	0.40
1:AA:346:G:H2'	1:AA:347:G:O4'	2.21	0.40
1:AA:607:A:O2'	1:AA:608:A:H5'	2.22	0.40
1:AA:626:U:H2'	1:AA:627:G:H8	1.86	0.40
1:AA:644:G:C2'	1:AA:645:C:H5'	2.52	0.40
1:AA:814:A:N7	1:AA:816:A:C4	2.90	0.40
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.54	0.40
1:AA:1276:G:H2'	1:AA:1277:C:H5'	2.03	0.40
1:AA:1279:A:H2	10:AJ:43:ARG:NH2	2.19	0.40
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.57	0.40
1:AA:1442:G:O6	1:AA:1442(B):A:H2	2.04	0.40
1:AA:1470:G:C2'	1:AA:1471:G:H5'	2.50	0.40
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.22	0.40
2:AB:95:GLN:HB3	2:AB:148:TYR:HD1	1.86	0.40
2:AB:107:THR:HA	2:AB:110:GLN:NE2	2.36	0.40
2:AB:218:ALA:O	2:AB:222:ILE:HG12	2.21	0.40
3:AC:90:GLU:HA	3:AC:93:LYS:HB3	2.03	0.40
3:AC:112:SER:O	3:AC:116:VAL:HG23	2.22	0.40
4:AD:30:LYS:HB2	4:AD:35:ARG:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:144:MET:HE1	23:AW:32:G:N2	2.37	0.40
11:AK:126:ARG:HH11	11:AK:126:ARG:CB	2.32	0.40
13:AM:30:ALA:O	13:AM:32:GLU:N	2.54	0.40
20:AT:13:LEU:CD1	20:AT:13:LEU:H	2.34	0.40
22:AV:15:G:C8	22:AV:15:G:OP2	2.74	0.40
23:AW:19:G:C6	23:AW:60:A:C6	3.09	0.40
23:AW:26:G:C3'	23:AW:27:C:C6	3.05	0.40
23:AW:30:U:C5	23:AW:31:C:N4	2.89	0.40
23:AW:32:G:O2'	23:AW:33:G:H5'	2.21	0.40
23:AW:67:C:H6	23:AW:67:C:H5"	1.87	0.40
22:AY:17:C:OP1	22:AY:17:C:H4'	2.21	0.40
22:AY:70:G:C2	22:AY:71:G:C5	3.09	0.40
25:B0:7:LEU:CD2	48:BQ:81:VAL:HB	2.51	0.40
26:B1:24:ALA:O	26:B1:25:LYS:C	2.63	0.40
27:B2:48:HIS:CG	27:B2:49:LYS:N	2.88	0.40
35:BA:322:A:P	40:BF:169:ASN:HB2	2.61	0.40
35:BA:755:C:H2'	35:BA:756:C:H6	1.86	0.40
35:BA:1009:A:O4'	52:BU:59:ARG:HD3	2.21	0.40
35:BA:1528:A:N1	35:BA:1542:A:C2	2.74	0.40
35:BA:1528(A):A:N6	35:BA:1541:G:N2	2.68	0.40
35:BA:1789:A:OP1	38:BD:221:VAL:HA	2.21	0.40
35:BA:1835:G:H2'	35:BA:1835:G:N3	2.36	0.40
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.74	0.40
37:BC:6:LYS:C	37:BC:8:TYR:H	2.29	0.40
38:BD:11:PRO:C	38:BD:13:ARG:N	2.77	0.40
38:BD:27:THR:O	38:BD:27:THR:CG2	2.67	0.40
38:BD:94:LEU:HD22	38:BD:94:LEU:C	2.47	0.40
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	2.03	0.40
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.46	0.40
41:BG:164:GLU:OE1	41:BG:164:GLU:N	2.53	0.40
42:BH:41:MET:HG3	42:BH:43:VAL:HG13	2.02	0.40
42:BH:52:VAL:O	42:BH:65:HIS:HE1	2.05	0.40
42:BH:66:GLY:HA2	42:BH:69:ARG:HB3	2.03	0.40
45:BN:27:ALA:O	45:BN:28:THR:C	2.65	0.40
45:BN:93:THR:O	45:BN:93:THR:HG23	2.22	0.40
49:BR:25:ALA:O	49:BR:26:LYS:C	2.64	0.40
50:BS:12:PHE:N	50:BS:12:PHE:CD1	2.89	0.40
50:BS:95:HIS:O	50:BS:98:VAL:HG23	2.21	0.40
51:BT:51:ARG:CG	51:BT:98:LYS:HG3	2.47	0.40
51:BT:107:ASP:OD1	51:BT:107:ASP:N	2.53	0.40
54:BW:45:TYR:CD1	54:BW:45:TYR:C	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:88:LYS:HZ3	56:BY:93:GLY:C	2.30	0.40
57:BZ:53:ILE:CD1	57:BZ:99:TYR:HB2	2.51	0.40
57:BZ:104:PHE:CD2	57:BZ:117:LEU:HD21	2.57	0.40
1:CA:66:G:C2	1:CA:67:C:C6	3.09	0.40
1:CA:70:G:H1	1:CA:99:U:H3	1.69	0.40
1:CA:163:C:O2	1:CA:163:C:H2'	2.22	0.40
1:CA:373:A:C2	1:CA:482:A:C6	3.09	0.40
1:CA:505:G:C6	1:CA:535:A:C2	3.10	0.40
1:CA:664:G:P	18:CR:64:ARG:HH21	2.45	0.40
1:CA:805:C:H2'	1:CA:806:C:H6	1.87	0.40
1:CA:826:C:H2'	1:CA:827:U:C6	2.56	0.40
1:CA:1018:C:O2'	1:CA:1019:C:H5'	2.20	0.40
1:CA:1073:U:O2'	2:CB:104:ASN:ND2	2.53	0.40
1:CA:1228:C:C5	1:CA:1229:A:N7	2.89	0.40
1:CA:1245:A:O2'	1:CA:1246:C:H5'	2.21	0.40
1:CA:1321:C:H5"	1:CA:1322:C:H5"	1.98	0.40
1:CA:1442:G:C5	51:DT:118:ARG:NH2	2.89	0.40
1:CA:1500:A:OP1	1:CA:1508:G:OP1	2.39	0.40
2:CB:42:ILE:CD1	2:CB:203:GLY:HA2	2.44	0.40
2:CB:95:GLN:CB	2:CB:148:TYR:HD1	2.34	0.40
2:CB:173:ALA:O	2:CB:176:GLU:N	2.55	0.40
3:CC:110:ASN:O	3:CC:116:VAL:HG21	2.21	0.40
3:CC:115:LEU:O	3:CC:116:VAL:C	2.64	0.40
4:CD:8:VAL:C	4:CD:10:ARG:N	2.80	0.40
4:CD:49:ARG:O	4:CD:51:PRO:HD3	2.21	0.40
5:CE:41:VAL:HG22	5:CE:69:VAL:HG21	2.03	0.40
6:CF:27:GLN:HA	6:CF:27:GLN:HE21	1.85	0.40
9:CI:14:VAL:HG12	9:CI:15:ALA:N	2.36	0.40
10:CJ:4:ILE:HB	10:CJ:74:ILE:HG12	2.03	0.40
10:CJ:46:ARG:HG2	10:CJ:46:ARG:NH1	2.36	0.40
12:CL:11:VAL:HG21	17:CQ:34:LYS:HD3	2.04	0.40
15:CO:76:GLU:C	15:CO:78:TYR:N	2.79	0.40
16:CP:5:ARG:HB2	16:CP:67:THR:OG1	2.22	0.40
17:CQ:75:ARG:HH12	17:CQ:77:VAL:HG22	1.87	0.40
22:CY:50:C:OP2	22:CY:61:A:H5'	2.22	0.40
28:D3:7:LYS:HE2	28:D3:32:GLN:OE1	2.20	0.40
33:D8:8:LYS:HB3	35:DA:247:G:O6	2.22	0.40
35:DA:143(A):C:H4'	55:DX:38:GLU:OE2	2.21	0.40
35:DA:365:C:H6	35:DA:365:C:C5'	2.29	0.40
35:DA:708:C:O2	35:DA:708:C:H2'	2.21	0.40
35:DA:736:C:H2'	35:DA:737:C:H6	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:806:C:P	47:DP:39:LYS:HG3	2.61	0.40
35:DA:921:G:C6	35:DA:922:U:C4	3.09	0.40
35:DA:1375:C:O5'	35:DA:1375:C:H6	2.03	0.40
35:DA:1672:C:H5"	35:DA:2554:U:OP1	2.21	0.40
35:DA:1796:U:H2'	35:DA:1797:C:H6	1.86	0.40
35:DA:2033:A:H4'	35:DA:2034:U:OP1	2.21	0.40
35:DA:2242:G:H2'	35:DA:2243:U:O4'	2.21	0.40
35:DA:2444:G:P	40:DF:68:LYS:HE2	2.61	0.40
36:DB:38:C:O2	36:DB:48:A:H1'	2.21	0.40
38:DD:25:THR:O	38:DD:27:THR:HG22	2.21	0.40
39:DE:4:ILE:HG12	39:DE:5:LEU:N	2.36	0.40
40:DF:32:LEU:O	40:DF:36:VAL:HG23	2.21	0.40
40:DF:66:PRO:C	40:DF:68:LYS:N	2.80	0.40
40:DF:175:THR:HG23	40:DF:176:LEU:N	2.37	0.40
43:DI:74:ASN:C	43:DI:76:THR:N	2.80	0.40
43:DI:90:GLY:O	43:DI:91:SER:C	2.64	0.40
43:DI:133:HIS:O	43:DI:133:HIS:CG	2.74	0.40
43:DI:139:GLN:CD	43:DI:139:GLN:N	2.80	0.40
45:DN:21:LYS:HG2	45:DN:22:THR:N	2.36	0.40
47:DP:78:PRO:HB2	47:DP:111:ARG:HD2	2.02	0.40
49:DR:33:ARG:HD2	49:DR:33:ARG:N	2.36	0.40
51:DT:56:GLY:O	51:DT:57:PHE:O	2.39	0.40
52:DU:68:ALA:HB2	52:DU:99:ALA:HB1	2.01	0.40
54:DW:46:PHE:O	54:DW:50:VAL:HG12	2.22	0.40
55:DX:31:HIS:ND1	55:DX:32:PRO:HD2	2.36	0.40
56:DY:4:LYS:O	56:DY:5:MET:C	2.64	0.40
56:DY:47:LYS:O	56:DY:60:PHE:HA	2.21	0.40
56:DY:54:LYS:C	56:DY:56:PRO:HD2	2.46	0.40
1:AA:587:G:C6	1:AA:755:G:C6	3.09	0.40
1:AA:887:G:C2'	1:AA:888:G:H5'	2.51	0.40
1:AA:946:A:H2'	1:AA:947:G:C8	2.57	0.40
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.55	0.40
1:AA:1409:C:OP1	35:BA:1916:A:H2	2.04	0.40
1:AA:1415:G:C4	1:AA:1486:G:C2	3.10	0.40
1:AA:1502:A:H2	1:AA:1505:G:N2	2.19	0.40
2:AB:204:ASN:C	2:AB:204:ASN:HD22	2.30	0.40
2:AB:220:ASP:C	2:AB:222:ILE:N	2.79	0.40
4:AD:8:VAL:C	4:AD:10:ARG:N	2.78	0.40
4:AD:118:ARG:O	4:AD:121:VAL:N	2.54	0.40
4:AD:171:GLY:C	4:AD:173:TRP:N	2.79	0.40
5:AE:150:ARG:HB2	5:AE:150:ARG:CZ	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:102:ARG:N	8:AH:102:ARG:HD3	2.36	0.40
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.52	0.40
12:AL:85:ILE:HD12	12:AL:85:ILE:HA	1.81	0.40
16:AP:9:PHE:HB3	16:AP:10:GLY:H	1.69	0.40
16:AP:39:TYR:CG	16:AP:40:ASP:N	2.89	0.40
19:AS:23:ASN:O	19:AS:25:LYS:N	2.54	0.40
22:AV:27:C:C6	22:AV:27:C:C3'	3.04	0.40
22:AV:67:C:O2'	22:AV:68:A:H5'	2.22	0.40
22:AV:71:G:C2	22:AV:72:C:C6	3.09	0.40
22:AY:9:A:C6	22:AY:48:G:C2	3.10	0.40
22:AY:23:A:C4	22:AY:50:C:C4	3.10	0.40
25:B0:36:ILE:O	25:B0:36:ILE:HG13	2.21	0.40
29:B4:4:GLY:O	29:B4:5:ILE:HG23	2.21	0.40
35:BA:7:G:H2'	35:BA:8:A:C8	2.56	0.40
35:BA:11:G:N2	35:BA:2628:C:OP1	2.53	0.40
35:BA:781:A:H2	35:BA:1776:G:N3	2.20	0.40
35:BA:806:C:P	47:BP:39:LYS:HG3	2.60	0.40
35:BA:851:U:H2'	35:BA:852:G:C8	2.56	0.40
35:BA:2305:A:C2	35:BA:2306:C:H1'	2.56	0.40
35:BA:2508:G:H2'	35:BA:2509:G:O4'	2.22	0.40
36:BB:74:U:H2'	36:BB:75:G:O4'	2.22	0.40
36:BB:81:G:H2'	36:BB:82:G:H5'	2.02	0.40
38:BD:138:VAL:O	38:BD:138:VAL:HG13	2.22	0.40
39:BE:11:MET:HB3	39:BE:24:THR:HB	2.03	0.40
39:BE:68:ALA:C	39:BE:70:ALA:N	2.78	0.40
40:BF:185:ASP:HA	40:BF:188:ARG:CD	2.51	0.40
41:BG:41:GLN:HB2	41:BG:90:LEU:HB3	2.03	0.40
42:BH:7:LEU:CD2	42:BH:65:HIS:NE2	2.85	0.40
43:BI:85:GLU:O	43:BI:123:LEU:HD13	2.22	0.40
45:BN:62:VAL:HG23	45:BN:66:LYS:HD2	2.03	0.40
45:BN:136:GLU:HG2	45:BN:137:LYS:N	2.36	0.40
47:BP:100:LEU:N	47:BP:100:LEU:CD2	2.84	0.40
49:BR:74:LYS:C	49:BR:76:VAL:N	2.77	0.40
51:BT:1:MET:O	51:BT:2:ASN:O	2.40	0.40
51:BT:85:LYS:O	51:BT:86:ILE:C	2.64	0.40
55:BX:12:VAL:HG11	55:BX:27:THR:CG2	2.52	0.40
56:BY:7:VAL:HB	56:BY:8:LYS:CD	2.52	0.40
1:CA:181:G:N2	1:CA:183:G:N2	2.69	0.40
1:CA:247:G:OP2	17:CQ:100:LYS:N	2.53	0.40
1:CA:448:A:O2'	1:CA:449:C:H5'	2.22	0.40
1:CA:460:G:N2	1:CA:471:G:N7	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:724:G:C2	1:CA:725:G:C8	3.10	0.40
1:CA:954:G:O2'	1:CA:955:U:H5'	2.21	0.40
1:CA:1107:C:P	3:CC:172:ARG:HD2	2.61	0.40
1:CA:1236:A:OP1	21:CU:3:LYS:HG3	2.22	0.40
1:CA:1242:C:OP1	21:CU:10:ARG:NH1	2.50	0.40
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.55	0.40
1:CA:1499:A:N3	1:CA:1499:A:H2'	2.36	0.40
2:CB:16:HIS:CD2	2:CB:210:SER:HA	2.56	0.40
2:CB:34:ALA:HB1	2:CB:36:ARG:HD2	2.04	0.40
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.35	0.40
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.36	0.40
4:CD:3:ARG:HD3	4:CD:3:ARG:N	2.36	0.40
4:CD:76:ARG:HG2	4:CD:76:ARG:NH1	2.35	0.40
4:CD:106:TYR:HE1	4:CD:112:VAL:O	2.04	0.40
4:CD:108:LEU:HD23	4:CD:110:PHE:CE1	2.57	0.40
4:CD:132:ARG:C	4:CD:132:ARG:CD	2.88	0.40
6:CF:10:LEU:N	6:CF:10:LEU:CD1	2.82	0.40
8:CH:64:LYS:C	8:CH:65:TYR:CD1	2.99	0.40
8:CH:97:VAL:C	8:CH:99:GLU:N	2.79	0.40
9:CI:46:ALA:HA	9:CI:78:LYS:CB	2.51	0.40
9:CI:99:LEU:HD12	9:CI:101:PHE:CE1	2.56	0.40
12:CL:32:PHE:HB3	12:CL:84:LEU:CD2	2.43	0.40
14:CN:3:ARG:O	14:CN:7:ILE:HG23	2.21	0.40
14:CN:4:LYS:C	14:CN:6:LEU:N	2.78	0.40
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.51	0.40
17:CQ:75:ARG:HG3	17:CQ:75:ARG:NH1	2.36	0.40
18:CR:58:LEU:HB3	18:CR:62:GLU:CB	2.51	0.40
23:CW:30:U:O2'	23:CW:31:C:H5'	2.21	0.40
23:CW:40:A:H2'	23:CW:41:C:C6	2.47	0.40
23:CW:45:U:H3'	23:CW:46:U:C5	2.54	0.40
22:CY:2:G:N3	22:CY:2:G:H2'	2.36	0.40
22:CY:15:G:N2	22:CY:61:A:C4	2.89	0.40
22:CY:17:C:H5"	22:CY:18:U:H5	1.83	0.40
22:CY:20:G:C4	22:CY:59:G:C2	3.10	0.40
22:CY:55:G:C2'	22:CY:56:U:C1'	2.94	0.40
22:CY:57:U:C6	57:DZ:181:GLU:O	2.73	0.40
22:CY:59:G:P	57:DZ:181:GLU:O	2.80	0.40
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.36	0.40
27:D2:59:ARG:HD3	35:DA:77:C:OP1	2.22	0.40
34:D9:1:MET:HE1	34:D9:32:HIS:HD2	1.85	0.40
34:D9:4:ARG:HB2	35:DA:2466:C:OP1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D9:16:VAL:O	35:DA:1033:U:H5	2.05	0.40
35:DA:27:G:N2	35:DA:512:G:H2'	2.35	0.40
35:DA:478:A:N1	35:DA:500:G:H4'	2.37	0.40
35:DA:480:A:H1'	56:DY:44:ILE:HG21	2.02	0.40
35:DA:1718:G:O2'	35:DA:1719:G:H5'	2.21	0.40
35:DA:1816:G:P	38:DD:39:LYS:HE3	2.60	0.40
35:DA:1902:C:H4'	38:DD:244:ARG:CA	2.48	0.40
35:DA:2030:A:H4'	35:DA:2031:A:H8	1.87	0.40
35:DA:2462:U:H2'	35:DA:2463:C:O4'	2.20	0.40
35:DA:2768:C:C2'	35:DA:2769:C:H5'	2.51	0.40
35:DA:2784:C:H6	35:DA:2784:C:O5'	2.04	0.40
37:DC:11:LEU:HD13	37:DC:221:PRO:HD2	2.04	0.40
37:DC:194:ILE:O	37:DC:198:GLU:HG3	2.21	0.40
39:DE:34:VAL:HG22	39:DE:48:GLN:HE21	1.86	0.40
39:DE:115:GLY:O	39:DE:116:VAL:C	2.65	0.40
40:DF:28:ILE:H	40:DF:28:ILE:CD1	2.34	0.40
40:DF:132:VAL:HG13	40:DF:133:ASN:CG	2.47	0.40
41:DG:123:ASN:HB2	41:DG:126:ASP:OD1	2.22	0.40
43:DI:31:LEU:N	43:DI:32:PRO:CD	2.85	0.40
43:DI:60:GLU:HB3	43:DI:61:ARG:NH1	2.36	0.40
47:DP:23:PRO:HD2	47:DP:33:ARG:NE	2.34	0.40
47:DP:88:LEU:O	47:DP:90:ARG:N	2.55	0.40
47:DP:95:VAL:HG22	47:DP:125:VAL:HA	2.02	0.40
48:DQ:35:VAL:HG23	48:DQ:100:GLY:C	2.47	0.40
50:DS:85:VAL:CG2	50:DS:106:ARG:HB2	2.51	0.40
53:DV:38:LEU:O	53:DV:52:VAL:HG12	2.21	0.40
56:DY:3:VAL:O	56:DY:4:LYS:C	2.63	0.40
56:DY:29:GLU:N	56:DY:29:GLU:CD	2.79	0.40
1:AA:189(B):C:N4	1:AA:189(J):G:N1	2.69	0.40
1:AA:232:G:H2'	1:AA:233:C:H6	1.86	0.40
1:AA:235:C:H1'	17:AQ:61:GLU:OE2	2.21	0.40
1:AA:956:U:C2'	1:AA:957:U:H5'	2.51	0.40
1:AA:1018:C:O2'	1:AA:1019:C:H5'	2.22	0.40
1:AA:1038:C:H6	1:AA:1038:C:O5'	2.03	0.40
1:AA:1152:A:C5'	10:AJ:70:ARG:NH2	2.75	0.40
1:AA:1316:G:H2'	1:AA:1317:C:C5'	2.50	0.40
1:AA:1456:G:H5"	1:AA:1456:G:N3	2.37	0.40
2:AB:187:LEU:HD13	2:AB:187:LEU:C	2.47	0.40
2:AB:207:ALA:O	2:AB:209:ARG:N	2.54	0.40
3:AC:95:THR:C	3:AC:97:LYS:N	2.78	0.40
3:AC:184:TYR:HA	3:AC:200:ALA:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:141:GLN:HA	5:AE:143:ARG:HH21	1.85	0.40
8:AH:8:ASP:O	8:AH:9:MET:C	2.63	0.40
8:AH:91:ARG:NH1	17:AQ:33:GLY:HA3	2.34	0.40
13:AM:7:VAL:O	13:AM:7:VAL:HG12	2.21	0.40
16:AP:8:ARG:HG2	16:AP:9:PHE:H	1.87	0.40
17:AQ:8:GLY:O	17:AQ:56:VAL:HA	2.21	0.40
21:AU:5:ASP:O	21:AU:11:GLY:HA3	2.20	0.40
22:AV:25:A:O2'	22:AV:26:G:C5'	2.62	0.40
23:AW:45:U:C4	23:AW:46:U:N3	2.89	0.40
22:AY:34:C:O2	22:AY:34:C:H2'	2.21	0.40
22:AY:43:G:HO2'	22:AY:44:A:H5'	1.87	0.40
25:B0:10:THR:CG2	25:B0:11:ARG:H	2.09	0.40
27:B2:68:ARG:HH11	27:B2:68:ARG:HG2	1.84	0.40
31:B6:54:ILE:O	31:B6:54:ILE:HD12	2.22	0.40
35:BA:35:G:O2'	35:BA:36:G:H5'	2.21	0.40
35:BA:198:C:H5'	35:BA:2244:U:OP1	2.22	0.40
35:BA:251:A:C5	35:BA:252:G:H1'	2.56	0.40
35:BA:900:A:C2	35:BA:901:A:H1'	2.57	0.40
35:BA:1000:A:H2'	35:BA:1001:A:C8	2.57	0.40
35:BA:1591:G:O2'	35:BA:1592:C:H5'	2.21	0.40
35:BA:2033:A:H4'	35:BA:2034:U:OP1	2.21	0.40
35:BA:2302:G:C6	35:BA:2315:G:C6	3.10	0.40
38:BD:24:ILE:C	38:BD:25:THR:O	2.64	0.40
38:BD:109:ASP:OD2	38:BD:197:GLY:HA2	2.21	0.40
41:BG:32:PRO:CB	41:BG:163:ALA:HB2	2.46	0.40
41:BG:41:GLN:HE22	41:BG:155:MET:HE2	1.85	0.40
41:BG:51:ARG:HH11	41:BG:53:LEU:HD21	1.86	0.40
41:BG:57:ALA:HA	41:BG:68:PRO:HG3	2.03	0.40
41:BG:145:THR:HG21	41:BG:148:MET:CB	2.52	0.40
43:BI:93:THR:N	43:BI:96:ASP:HB2	2.32	0.40
43:BI:113:ARG:C	43:BI:114:LEU:HG	2.46	0.40
44:BJ:93:UNK:O	44:BJ:96:UNK:N	2.55	0.40
46:BO:18:LYS:HD2	46:BO:45:GLU:OE1	2.21	0.40
48:BQ:119:ARG:O	48:BQ:123:HIS:HD2	2.05	0.40
49:BR:34:ILE:CG2	49:BR:35:THR:N	2.84	0.40
49:BR:54:LEU:HD12	49:BR:54:LEU:HA	1.93	0.40
50:BS:16:ASN:O	50:BS:19:LYS:HB2	2.21	0.40
51:BT:57:PHE:O	51:BT:58:ASN:C	2.64	0.40
51:BT:95:ARG:HH11	51:BT:95:ARG:CB	2.29	0.40
51:BT:107:ASP:OD1	51:BT:108:ARG:N	2.54	0.40
51:BT:117:ASP:O	51:BT:119:LYS:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:5:VAL:HG22	53:BV:6:LYS:N	2.37	0.40
53:BV:47:VAL:O	53:BV:49:THR:N	2.54	0.40
55:BX:63:LYS:O	55:BX:64:LYS:HG3	2.22	0.40
56:BY:57:GLN:CG	56:BY:58:GLY:N	2.84	0.40
56:BY:88:LYS:HZ1	56:BY:93:GLY:C	2.29	0.40
1:CA:26:A:N6	1:CA:558:G:H1'	2.36	0.40
1:CA:34:C:H2'	1:CA:35:G:H8	1.87	0.40
1:CA:52:G:H2'	1:CA:53:A:O4'	2.22	0.40
1:CA:66:G:N3	1:CA:66:G:H2'	2.37	0.40
1:CA:136:C:C4'	16:CP:1:MET:HE3	2.51	0.40
1:CA:151:A:C6	1:CA:171:A:N6	2.90	0.40
1:CA:377:G:H5'	16:CP:5:ARG:NH1	2.37	0.40
1:CA:603:U:H2'	1:CA:604:G:H8	1.86	0.40
1:CA:605:U:H2'	1:CA:606:G:H8	1.86	0.40
1:CA:643:C:H5'	8:CH:31:PHE:CE1	2.56	0.40
1:CA:696:A:H1'	1:CA:786:G:O2'	2.22	0.40
1:CA:781:A:H2	1:CA:1514:C:O4'	2.04	0.40
1:CA:929:G:H1	1:CA:1388:C:H42	1.68	0.40
1:CA:1269:A:H5'	21:CU:18:TYR:O	2.21	0.40
1:CA:1278:U:H4'	1:CA:1279:A:H8	1.86	0.40
1:CA:1339:A:N3	22:CV:33:G:H1'	2.37	0.40
1:CA:1399:C:H5'	1:CA:1401:G:OP2	2.21	0.40
1:CA:1504:G:H4'	1:CA:1505:G:O5'	2.22	0.40
2:CB:52:GLU:HG2	2:CB:56:ARG:NH1	2.35	0.40
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.90	0.40
2:CB:166:ASP:HA	2:CB:167:PRO:HD2	1.88	0.40
3:CC:3:ASN:O	3:CC:4:LYS:O	2.40	0.40
3:CC:92:ALA:HA	3:CC:95:THR:O	2.21	0.40
4:CD:36:ARG:O	4:CD:38:TYR:N	2.53	0.40
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.51	0.40
5:CE:33:VAL:HG12	5:CE:34:VAL:H	1.83	0.40
7:CG:40:ALA:O	7:CG:44:TYR:HD2	2.05	0.40
12:CL:43:VAL:CG2	12:CL:44:THR:N	2.79	0.40
15:CO:8:LYS:HG2	15:CO:12:ILE:HD11	2.03	0.40
17:CQ:4:LYS:HG3	17:CQ:5:VAL:N	2.36	0.40
17:CQ:12:SER:HB3	17:CQ:20:THR:CB	2.47	0.40
21:CU:24:ARG:O	21:CU:25:LYS:HB3	2.21	0.40
22:CV:14:A:H4'	22:CV:14:A:OP1	2.21	0.40
24:CX:15:A:N3	24:CX:15:A:H2'	2.37	0.40
26:D1:19:GLN:NE2	26:D1:19:GLN:CA	2.80	0.40
29:D4:50:VAL:C	29:D4:52:THR:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:125:G:H4'	35:DA:126:A:OP2	2.22	0.40
35:DA:510:C:H2'	35:DA:511:U:O4'	2.20	0.40
35:DA:907:U:OP1	48:DQ:24:GLY:N	2.51	0.40
35:DA:942:G:H5"	47:DP:36:LYS:H	1.87	0.40
35:DA:945:A:C4	35:DA:2448:A:C2	3.09	0.40
35:DA:1722:A:O2'	35:DA:1739:U:C5'	2.70	0.40
35:DA:2078:C:H2'	35:DA:2079:U:C6	2.55	0.40
35:DA:2108:C:O2'	35:DA:2109:U:H5'	2.22	0.40
37:DC:23:ILE:CG2	37:DC:190:ILE:HB	2.51	0.40
38:DD:24:ILE:HG12	38:DD:25:THR:H	1.75	0.40
38:DD:25:THR:HG22	38:DD:26:LYS:HD2	2.04	0.40
38:DD:73:VAL:C	38:DD:75:ILE:H	2.30	0.40
41:DG:61:ALA:HB2	41:DG:67:LYS:HA	2.03	0.40
41:DG:83:ARG:NH2	41:DG:84:LYS:HZ2	2.19	0.40
41:DG:171:ALA:O	41:DG:172:LEU:C	2.64	0.40
42:DH:61:HIS:O	42:DH:64:LEU:N	2.54	0.40
44:DJ:58:UNK:C	44:DJ:59:UNK:O	2.68	0.40
45:DN:89:LYS:HB3	45:DN:89:LYS:HZ2	1.87	0.40
47:DP:146:VAL:HG13	47:DP:147:LEU:H	1.86	0.40
50:DS:68:GLN:O	50:DS:69:VAL:C	2.63	0.40
51:DT:51:ARG:HB2	51:DT:98:LYS:HG3	2.02	0.40
54:DW:82:LEU:HG	54:DW:84:ARG:HH12	1.86	0.40
55:DX:28:PHE:CE2	55:DX:92:LEU:HD11	2.57	0.40
57:DZ:56:VAL:C	57:DZ:57:ILE:HD12	2.46	0.40
57:DZ:144:LEU:HD11	57:DZ:149:SER:HA	2.04	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)
4:AD:27:TYR:OH	6:CF:15:ASP:OD2[4_455]	2.05	0.15

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	AB	202/220 (92%)	187 (93%)	15 (7%)	13 40
2	CB	202/220 (92%)	187 (93%)	15 (7%)	13 40
3	AC	160/188 (85%)	146 (91%)	14 (9%)	9 33
3	CC	160/188 (85%)	148 (92%)	12 (8%)	12 39
4	AD	180/181 (99%)	167 (93%)	13 (7%)	13 40
4	CD	180/181 (99%)	167 (93%)	13 (7%)	13 40
5	AE	115/123 (94%)	109 (95%)	6 (5%)	21 51
5	CE	115/123 (94%)	108 (94%)	7 (6%)	17 46
6	AF	90/90 (100%)	86 (96%)	4 (4%)	25 56
6	CF	90/90 (100%)	86 (96%)	4 (4%)	25 56
7	AG	126/127 (99%)	119 (94%)	7 (6%)	19 49
7	CG	126/127 (99%)	119 (94%)	7 (6%)	19 49
8	AH	119/119 (100%)	108 (91%)	11 (9%)	8 31
8	CH	119/119 (100%)	108 (91%)	11 (9%)	8 31
9	AI	98/99 (99%)	93 (95%)	5 (5%)	21 52
9	CI	98/99 (99%)	93 (95%)	5 (5%)	21 52
10	AJ	88/92 (96%)	84 (96%)	4 (4%)	24 56
10	CJ	88/92 (96%)	84 (96%)	4 (4%)	24 56
11	AK	90/99 (91%)	85 (94%)	5 (6%)	19 49
11	CK	90/99 (91%)	85 (94%)	5 (6%)	19 49
12	AL	104/111 (94%)	81 (78%)	23 (22%)	1 4
12	CL	104/111 (94%)	81 (78%)	23 (22%)	1 4
13	AM	94/101 (93%)	87 (93%)	7 (7%)	13 40
13	CM	94/101 (93%)	87 (93%)	7 (7%)	13 40
14	AN	49/50 (98%)	47 (96%)	2 (4%)	27 59
14	CN	49/50 (98%)	46 (94%)	3 (6%)	17 46

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	AO	79/80 (99%)	77 (98%)	2 (2%)	42 69
15	CO	79/80 (99%)	77 (98%)	2 (2%)	42 69
16	AP	72/74 (97%)	66 (92%)	6 (8%)	10 35
16	CP	72/74 (97%)	65 (90%)	7 (10%)	8 30
17	AQ	94/97 (97%)	90 (96%)	4 (4%)	26 57
17	CQ	94/97 (97%)	90 (96%)	4 (4%)	26 57
18	AR	61/77 (79%)	58 (95%)	3 (5%)	22 53
18	CR	61/77 (79%)	58 (95%)	3 (5%)	22 53
19	AS	69/80 (86%)	61 (88%)	8 (12%)	5 22
19	CS	69/80 (86%)	61 (88%)	8 (12%)	5 22
20	AT	76/82 (93%)	70 (92%)	6 (8%)	11 37
20	CT	76/82 (93%)	70 (92%)	6 (8%)	11 37
21	AU	19/22 (86%)	18 (95%)	1 (5%)	20 51
21	CU	19/22 (86%)	18 (95%)	1 (5%)	20 51
25	B0	66/67 (98%)	58 (88%)	8 (12%)	5 20
25	D0	66/67 (98%)	58 (88%)	8 (12%)	5 20
26	B1	78/83 (94%)	66 (85%)	12 (15%)	2 12
26	D1	78/83 (94%)	66 (85%)	12 (15%)	2 12
27	B2	66/67 (98%)	56 (85%)	10 (15%)	3 13
27	D2	66/67 (98%)	57 (86%)	9 (14%)	3 16
28	B3	51/52 (98%)	48 (94%)	3 (6%)	18 48
28	D3	51/52 (98%)	48 (94%)	3 (6%)	18 48
29	B4	51/63 (81%)	43 (84%)	8 (16%)	2 12
29	D4	51/63 (81%)	43 (84%)	8 (16%)	2 12
30	B5	47/52 (90%)	43 (92%)	4 (8%)	10 35
30	D5	47/52 (90%)	43 (92%)	4 (8%)	10 35
31	B6	49/52 (94%)	41 (84%)	8 (16%)	2 11
31	D6	49/52 (94%)	41 (84%)	8 (16%)	2 11
32	B7	40/42 (95%)	36 (90%)	4 (10%)	7 29
32	D7	40/42 (95%)	36 (90%)	4 (10%)	7 29
33	B8	53/55 (96%)	44 (83%)	9 (17%)	2 10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
33	D8	53/55 (96%)	44 (83%)	9 (17%)	2 10
34	B9	34/34 (100%)	34 (100%)	0	100 100
34	D9	34/34 (100%)	34 (100%)	0	100 100
37	BC	99/181 (55%)	94 (95%)	5 (5%)	21 52
37	DC	99/181 (55%)	94 (95%)	5 (5%)	21 52
38	BD	213/218 (98%)	182 (85%)	31 (15%)	3 14
38	DD	213/218 (98%)	183 (86%)	30 (14%)	3 15
39	BE	165/166 (99%)	142 (86%)	23 (14%)	3 15
39	DE	165/166 (99%)	143 (87%)	22 (13%)	4 17
40	BF	165/166 (99%)	148 (90%)	17 (10%)	7 27
40	DF	165/166 (99%)	148 (90%)	17 (10%)	7 27
41	BG	155/156 (99%)	141 (91%)	14 (9%)	9 33
41	DG	155/156 (99%)	141 (91%)	14 (9%)	9 33
42	BH	137/148 (93%)	119 (87%)	18 (13%)	4 17
42	DH	137/148 (93%)	119 (87%)	18 (13%)	4 17
43	BI	122/124 (98%)	110 (90%)	12 (10%)	7 29
43	DI	122/124 (98%)	110 (90%)	12 (10%)	7 29
45	BN	117/119 (98%)	100 (86%)	17 (14%)	3 14
45	DN	117/119 (98%)	98 (84%)	19 (16%)	2 11
46	BO	100/100 (100%)	90 (90%)	10 (10%)	7 29
46	DO	100/100 (100%)	90 (90%)	10 (10%)	7 29
47	BP	112/116 (97%)	91 (81%)	21 (19%)	1 7
47	DP	112/116 (97%)	92 (82%)	20 (18%)	2 9
48	BQ	110/111 (99%)	101 (92%)	9 (8%)	10 36
48	DQ	110/111 (99%)	102 (93%)	8 (7%)	13 40
49	BR	100/101 (99%)	83 (83%)	17 (17%)	2 10
49	DR	100/101 (99%)	83 (83%)	17 (17%)	2 10
50	BS	77/88 (88%)	64 (83%)	13 (17%)	2 10
50	DS	77/88 (88%)	64 (83%)	13 (17%)	2 10
51	BT	118/127 (93%)	96 (81%)	22 (19%)	1 8
51	DT	118/127 (93%)	95 (80%)	23 (20%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
52	BU	92/94 (98%)	82 (89%)	10 (11%)	6 24
52	DU	92/94 (98%)	81 (88%)	11 (12%)	5 21
53	BV	82/82 (100%)	66 (80%)	16 (20%)	1 6
53	DV	82/82 (100%)	65 (79%)	17 (21%)	1 5
54	BW	91/92 (99%)	81 (89%)	10 (11%)	6 24
54	DW	91/92 (99%)	80 (88%)	11 (12%)	5 20
55	BX	74/78 (95%)	70 (95%)	4 (5%)	20 50
55	DX	74/78 (95%)	70 (95%)	4 (5%)	20 50
56	BY	84/91 (92%)	70 (83%)	14 (17%)	2 10
56	DY	84/91 (92%)	70 (83%)	14 (17%)	2 10
57	BZ	162/179 (90%)	142 (88%)	20 (12%)	4 20
57	DZ	162/179 (90%)	148 (91%)	14 (9%)	10 34
All	All	9790/10432 (94%)	8764 (90%)	1026 (10%)	6 26

All (1026) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	17	PHE
2	AB	36	ARG
2	AB	48	MET
2	AB	80	ILE
2	AB	87	ARG
2	AB	102	LEU
2	AB	140	HIS
2	AB	145	LEU
2	AB	178	ARG
2	AB	179	LYS
2	AB	187	LEU
2	AB	196	LEU
2	AB	198	ASP
2	AB	221	LEU
3	AC	3	ASN
3	AC	5	ILE
3	AC	16	ARG
3	AC	17	ASP
3	AC	18	TRP
3	AC	22	TRP

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Mol	Chain	Res	Type
3	AC	34	LEU
3	AC	69	HIS
3	AC	82	GLU
3	AC	107	GLN
3	AC	131	ARG
3	AC	165	THR
3	AC	181	ASN
3	AC	191	THR
4	AD	3	ARG
4	AD	7	PRO
4	AD	9	CYS
4	AD	15	GLU
4	AD	36	ARG
4	AD	38	TYR
4	AD	79	PHE
4	AD	110	PHE
4	AD	121	VAL
4	AD	129	ASN
4	AD	135	LEU
4	AD	168	ARG
4	AD	190	ASP
5	AE	12	LEU
5	AE	31	LEU
5	AE	73	ASN
5	AE	79	GLU
5	AE	101	ILE
5	AE	112	LEU
6	AF	24	GLU
6	AF	63	TYR
6	AF	69	GLU
6	AF	92	LYS
7	AG	12	LEU
7	AG	88	PRO
7	AG	111	ARG
7	AG	124	LEU
7	AG	136	LYS
7	AG	140	ASP
7	AG	151	TYR
8	AH	1	MET
8	AH	52	ASP
8	AH	60	ARG
8	AH	63	LEU

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Mol	Chain	Res	Type
8	AH	65	TYR
8	AH	83	ILE
8	AH	85	ARG
8	AH	112	LEU
8	AH	115	SER
8	AH	118	VAL
8	AH	133	LEU
9	AI	10	ARG
9	AI	38	GLN
9	AI	78	LYS
9	AI	95	LYS
9	AI	114	TYR
10	AJ	16	LEU
10	AJ	50	ILE
10	AJ	80	LYS
10	AJ	96	ILE
11	AK	29	ILE
11	AK	40	ILE
11	AK	110	ASP
11	AK	117	ASN
11	AK	124	LYS
12	AL	20	LYS
12	AL	24	VAL
12	AL	27	LEU
12	AL	40	VAL
12	AL	41	ARG
12	AL	44	THR
12	AL	45	PRO
12	AL	46	LYS
12	AL	47	LYS
12	AL	48	PRO
12	AL	49	ASN
12	AL	60	LEU
12	AL	64	TYR
12	AL	66	VAL
12	AL	77	LEU
12	AL	79	GLU
12	AL	83	VAL
12	AL	89	ARG
12	AL	92	ASP
12	AL	104	VAL
12	AL	110	VAL

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Mol	Chain	Res	Type
12	AL	120	TYR
12	AL	126	LYS
13	AM	47	ASP
13	AM	79	LYS
13	AM	82	MET
13	AM	92	HIS
13	AM	93	ARG
13	AM	106	ASN
13	AM	115	LYS
14	AN	33	VAL
14	AN	41	ARG
15	AO	44	LYS
15	AO	82	ILE
16	AP	1	MET
16	AP	2	VAL
16	AP	6	LEU
16	AP	47	ASP
16	AP	65	GLN
16	AP	69	THR
17	AQ	36	ILE
17	AQ	38	ARG
17	AQ	42	TYR
17	AQ	52	LYS
18	AR	47	THR
18	AR	58	LEU
18	AR	76	LEU
19	AS	5	LEU
19	AS	6	LYS
19	AS	7	LYS
19	AS	22	LEU
19	AS	29	ARG
19	AS	37	ARG
19	AS	43	GLU
19	AS	70	LYS
20	AT	24	LEU
20	AT	26	ASN
20	AT	54	LYS
20	AT	73	HIS
20	AT	75	ASN
20	AT	93	GLU
21	AU	5	ASP
25	B0	3	HIS

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Mol	Chain	Res	Type
25	B0	5	LYS
25	B0	11	ARG
25	B0	14	ARG
25	B0	20	ARG
25	B0	36	ILE
25	B0	55	ARG
25	B0	84	LEU
26	B1	18	ILE
26	B1	20	ARG
26	B1	39	LYS
26	B1	40	ARG
26	B1	41	ARG
26	B1	46	LEU
26	B1	51	VAL
26	B1	59	THR
26	B1	67	ILE
26	B1	82	LEU
26	B1	91	LYS
26	B1	93	GLU
27	B2	2	LYS
27	B2	16	LEU
27	B2	32	LEU
27	B2	34	GLU
27	B2	45	SER
27	B2	51	ARG
27	B2	64	LEU
27	B2	66	GLU
27	B2	68	ARG
27	B2	71	ASN
28	B3	8	LEU
28	B3	30	ARG
28	B3	47	VAL
29	B4	1	MET
29	B4	5	ILE
29	B4	13	ARG
29	B4	28	LYS
29	B4	30	GLU
29	B4	32	TYR
29	B4	53	GLU
29	B4	55	ARG
30	B5	4	HIS
30	B5	25	LEU

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Mol	Chain	Res	Type
30	B5	52	TYR
30	B5	55	ARG
31	B6	9	LEU
31	B6	10	LEU
31	B6	11	LEU
31	B6	15	GLU
31	B6	16	CYS
31	B6	18	ARG
31	B6	27	LYS
31	B6	42	TRP
32	B7	4	THR
32	B7	8	ASN
32	B7	24	THR
32	B7	43	THR
33	B8	6	THR
33	B8	30	ARG
33	B8	31	HIS
33	B8	32	LEU
33	B8	34	TRP
33	B8	47	LYS
33	B8	59	LYS
33	B8	61	LEU
33	B8	64	TYR
37	BC	29	LEU
37	BC	39	ASP
37	BC	50	ILE
37	BC	173	HIS
37	BC	185	LYS
38	BD	10	THR
38	BD	24	ILE
38	BD	28	GLU
38	BD	35	LYS
38	BD	37	LEU
38	BD	43	ARG
38	BD	44	ASN
38	BD	46	GLN
38	BD	49	ILE
38	BD	61	LEU
38	BD	65	ILE
38	BD	72	LYS
38	BD	94	LEU
38	BD	98	VAL

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Mol	Chain	Res	Type
38	BD	103	ARG
38	BD	111	LEU
38	BD	116	GLN
38	BD	122	ASP
38	BD	131	LEU
38	BD	166	GLN
38	BD	192	THR
38	BD	221	VAL
38	BD	228	PRO
38	BD	229	VAL
38	BD	246	PRO
38	BD	257	LEU
38	BD	259	THR
38	BD	260	ARG
38	BD	268	ARG
38	BD	270	ILE
38	BD	271	ILE
39	BE	7	VAL
39	BE	9	VAL
39	BE	12	THR
39	BE	33	VAL
39	BE	34	VAL
39	BE	49	LEU
39	BE	53	PRO
39	BE	55	ASN
39	BE	63	LEU
39	BE	67	PHE
39	BE	78	LEU
39	BE	79	ARG
39	BE	87	GLU
39	BE	89	ASP
39	BE	94	GLU
39	BE	119	ARG
39	BE	129	HIS
39	BE	134	ILE
39	BE	144	ARG
39	BE	169	ASN
39	BE	175	VAL
39	BE	188	VAL
39	BE	202	LYS
40	BF	23	ASP
40	BF	28	ILE

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Mol	Chain	Res	Type
40	BF	38	ARG
40	BF	66	PRO
40	BF	74	ARG
40	BF	88	VAL
40	BF	100	THR
40	BF	110	LEU
40	BF	125	LEU
40	BF	133	ASN
40	BF	158	THR
40	BF	164	ARG
40	BF	170	LEU
40	BF	175	THR
40	BF	183	VAL
40	BF	196	LEU
40	BF	200	GLU
41	BG	22	ARG
41	BG	36	LYS
41	BG	39	ILE
41	BG	40	ASN
41	BG	45	GLU
41	BG	71	THR
41	BG	83	ARG
41	BG	86	MET
41	BG	125	PHE
41	BG	126	ASP
41	BG	133	LEU
41	BG	143	GLU
41	BG	147	ASP
41	BG	172	LEU
42	BH	9	ILE
42	BH	24	VAL
42	BH	34	GLU
42	BH	42	ARG
42	BH	46	GLU
42	BH	53	GLU
42	BH	70	THR
42	BH	88	LEU
42	BH	89	ILE
42	BH	94	TYR
42	BH	105	LEU
42	BH	116	GLU
42	BH	136	ILE

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Mol	Chain	Res	Type
42	BH	143	GLN
42	BH	153	LYS
42	BH	157	TYR
42	BH	163	TYR
42	BH	170	ARG
43	BI	1	MET
43	BI	20	ASP
43	BI	35	LEU
43	BI	74	ASN
43	BI	77	LEU
43	BI	81	VAL
43	BI	92	VAL
43	BI	109	ILE
43	BI	132	PRO
43	BI	136	VAL
43	BI	139	GLN
43	BI	140	LEU
45	BN	1	MET
45	BN	4	TYR
45	BN	15	LEU
45	BN	23	LEU
45	BN	28	THR
45	BN	33	LEU
45	BN	34	LEU
45	BN	39	ARG
45	BN	48	MET
45	BN	50	ASP
45	BN	73	THR
45	BN	85	ILE
45	BN	87	LEU
45	BN	89	LYS
45	BN	93	THR
45	BN	103	VAL
45	BN	120	LEU
46	BO	20	MET
46	BO	24	VAL
46	BO	28	SER
46	BO	32	TYR
46	BO	43	VAL
46	BO	48	PRO
46	BO	78	ARG
46	BO	98	VAL

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Mol	Chain	Res	Type
46	BO	108	GLU
46	BO	114	ILE
47	BP	6	LEU
47	BP	13	ASN
47	BP	16	ARG
47	BP	18	ARG
47	BP	39	LYS
47	BP	40	SER
47	BP	42	SER
47	BP	45	LEU
47	BP	47	ASP
47	BP	57	THR
47	BP	59	LEU
47	BP	61	ARG
47	BP	83	VAL
47	BP	85	LEU
47	BP	91	PHE
47	BP	95	VAL
47	BP	98	GLU
47	BP	112	LEU
47	BP	114	ILE
47	BP	119	GLU
47	BP	135	LEU
48	BQ	45	GLN
48	BQ	56	ARG
48	BQ	79	LEU
48	BQ	89	ASN
48	BQ	91	GLU
48	BQ	109	VAL
48	BQ	110	THR
48	BQ	135	ASP
48	BQ	137	TYR
49	BR	2	ARG
49	BR	9	LYS
49	BR	18	LEU
49	BR	29	LEU
49	BR	37	THR
49	BR	54	LEU
49	BR	66	VAL
49	BR	67	LEU
49	BR	76	VAL
49	BR	79	LEU

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Mol	Chain	Res	Type
49	BR	81	ASP
49	BR	91	GLN
49	BR	94	TYR
49	BR	97	VAL
49	BR	99	LYS
49	BR	100	LEU
49	BR	113	LEU
50	BS	11	LYS
50	BS	12	PHE
50	BS	15	ARG
50	BS	21	THR
50	BS	26	LEU
50	BS	36	TYR
50	BS	44	LYS
50	BS	67	ARG
50	BS	89	ARG
50	BS	92	TYR
50	BS	97	ARG
50	BS	101	LEU
50	BS	106	ARG
51	BT	3	ARG
51	BT	6	LEU
51	BT	13	ARG
51	BT	14	TYR
51	BT	24	PRO
51	BT	41	ARG
51	BT	44	ASP
51	BT	49	VAL
51	BT	51	ARG
51	BT	58	ASN
51	BT	59	THR
51	BT	65	LYS
51	BT	72	VAL
51	BT	78	LEU
51	BT	82	LEU
51	BT	85	LYS
51	BT	89	VAL
51	BT	93	ARG
51	BT	95	ARG
51	BT	100	TYR
51	BT	124	ASP
51	BT	128	GLU

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Mol	Chain	Res	Type
52	BU	8	VAL
52	BU	17	ILE
52	BU	59	ARG
52	BU	60	LEU
52	BU	74	LEU
52	BU	83	LEU
52	BU	101	ARG
52	BU	102	GLU
52	BU	104	GLN
52	BU	108	GLU
53	BV	1	MET
53	BV	5	VAL
53	BV	13	ARG
53	BV	16	PRO
53	BV	18	LEU
53	BV	19	LYS
53	BV	21	ARG
53	BV	39	LEU
53	BV	40	LEU
53	BV	45	THR
53	BV	57	VAL
53	BV	61	VAL
53	BV	79	VAL
53	BV	91	TYR
53	BV	95	LEU
53	BV	99	ILE
54	BW	11	ARG
54	BW	39	THR
54	BW	51	LEU
54	BW	52	GLU
54	BW	59	VAL
54	BW	63	ASP
54	BW	82	LEU
54	BW	92	ARG
54	BW	96	ILE
54	BW	107	LEU
55	BX	27	THR
55	BX	35	THR
55	BX	57	LEU
55	BX	68	ARG
56	BY	6	HIS
56	BY	7	VAL

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Mol	Chain	Res	Type
56	BY	9	LYS
56	BY	14	LEU
56	BY	20	TYR
56	BY	28	LYS
56	BY	29	GLU
56	BY	38	ILE
56	BY	53	PRO
56	BY	61	ILE
56	BY	64	GLU
56	BY	66	PRO
56	BY	77	PRO
56	BY	83	THR
57	BZ	13	GLU
57	BZ	31	ARG
57	BZ	37	VAL
57	BZ	40	ASP
57	BZ	61	LEU
57	BZ	70	LEU
57	BZ	71	VAL
57	BZ	80	ARG
57	BZ	103	ARG
57	BZ	148	ASP
57	BZ	150	LEU
57	BZ	151	HIS
57	BZ	154	ASP
57	BZ	157	LEU
57	BZ	166	SER
57	BZ	169	GLU
57	BZ	171	ILE
57	BZ	180	VAL
57	BZ	181	GLU
57	BZ	182	LYS
2	CB	15	VAL
2	CB	17	PHE
2	CB	36	ARG
2	CB	44	LEU
2	CB	48	MET
2	CB	80	ILE
2	CB	87	ARG
2	CB	140	HIS
2	CB	145	LEU
2	CB	178	ARG

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Mol	Chain	Res	Type
2	CB	179	LYS
2	CB	187	LEU
2	CB	196	LEU
2	CB	198	ASP
2	CB	221	LEU
3	CC	3	ASN
3	CC	5	ILE
3	CC	16	ARG
3	CC	17	ASP
3	CC	18	TRP
3	CC	22	TRP
3	CC	34	LEU
3	CC	69	HIS
3	CC	82	GLU
3	CC	107	GLN
3	CC	131	ARG
3	CC	181	ASN
4	CD	3	ARG
4	CD	7	PRO
4	CD	9	CYS
4	CD	15	GLU
4	CD	36	ARG
4	CD	38	TYR
4	CD	79	PHE
4	CD	110	PHE
4	CD	121	VAL
4	CD	129	ASN
4	CD	135	LEU
4	CD	168	ARG
4	CD	190	ASP
5	CE	12	LEU
5	CE	20	GLN
5	CE	31	LEU
5	CE	73	ASN
5	CE	79	GLU
5	CE	101	ILE
5	CE	112	LEU
6	CF	24	GLU
6	CF	63	TYR
6	CF	69	GLU
6	CF	92	LYS
7	CG	12	LEU

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Mol	Chain	Res	Type
7	CG	88	PRO
7	CG	111	ARG
7	CG	124	LEU
7	CG	136	LYS
7	CG	140	ASP
7	CG	151	TYR
8	CH	1	MET
8	CH	52	ASP
8	CH	60	ARG
8	CH	63	LEU
8	CH	65	TYR
8	CH	83	ILE
8	CH	85	ARG
8	CH	112	LEU
8	CH	115	SER
8	CH	118	VAL
8	CH	133	LEU
9	CI	10	ARG
9	CI	38	GLN
9	CI	78	LYS
9	CI	95	LYS
9	CI	114	TYR
10	CJ	16	LEU
10	CJ	50	ILE
10	CJ	80	LYS
10	CJ	96	ILE
11	CK	29	ILE
11	CK	40	ILE
11	CK	110	ASP
11	CK	117	ASN
11	CK	124	LYS
12	CL	20	LYS
12	CL	24	VAL
12	CL	27	LEU
12	CL	40	VAL
12	CL	41	ARG
12	CL	44	THR
12	CL	45	PRO
12	CL	46	LYS
12	CL	47	LYS
12	CL	48	PRO
12	CL	49	ASN

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Mol	Chain	Res	Type
12	CL	60	LEU
12	CL	64	TYR
12	CL	66	VAL
12	CL	77	LEU
12	CL	79	GLU
12	CL	83	VAL
12	CL	89	ARG
12	CL	92	ASP
12	CL	104	VAL
12	CL	110	VAL
12	CL	120	TYR
12	CL	126	LYS
13	CM	47	ASP
13	CM	79	LYS
13	CM	82	MET
13	CM	92	HIS
13	CM	93	ARG
13	CM	106	ASN
13	CM	115	LYS
14	CN	33	VAL
14	CN	41	ARG
14	CN	42	ILE
15	CO	44	LYS
15	CO	82	ILE
16	CP	1	MET
16	CP	2	VAL
16	CP	6	LEU
16	CP	21	VAL
16	CP	47	ASP
16	CP	65	GLN
16	CP	69	THR
17	CQ	36	ILE
17	CQ	38	ARG
17	CQ	42	TYR
17	CQ	52	LYS
18	CR	31	LEU
18	CR	47	THR
18	CR	76	LEU
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	22	LEU

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Mol	Chain	Res	Type
19	CS	29	ARG
19	CS	37	ARG
19	CS	43	GLU
19	CS	70	LYS
20	CT	24	LEU
20	CT	26	ASN
20	CT	54	LYS
20	CT	73	HIS
20	CT	75	ASN
20	CT	93	GLU
21	CU	5	ASP
25	D0	3	HIS
25	D0	5	LYS
25	D0	11	ARG
25	D0	14	ARG
25	D0	20	ARG
25	D0	36	ILE
25	D0	55	ARG
25	D0	84	LEU
26	D1	14	VAL
26	D1	37	ILE
26	D1	39	LYS
26	D1	40	ARG
26	D1	41	ARG
26	D1	45	ASN
26	D1	46	LEU
26	D1	52	ARG
26	D1	72	GLU
26	D1	73	LEU
26	D1	82	LEU
26	D1	91	LYS
27	D2	3	LEU
27	D2	21	LEU
27	D2	44	LEU
27	D2	47	ASN
27	D2	53	LEU
27	D2	57	ILE
27	D2	64	LEU
27	D2	65	ASN
27	D2	68	ARG
28	D3	8	LEU
28	D3	30	ARG

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Mol	Chain	Res	Type
28	D3	47	VAL
29	D4	1	MET
29	D4	5	ILE
29	D4	13	ARG
29	D4	28	LYS
29	D4	30	GLU
29	D4	32	TYR
29	D4	53	GLU
29	D4	55	ARG
30	D5	4	HIS
30	D5	25	LEU
30	D5	52	TYR
30	D5	55	ARG
31	D6	9	LEU
31	D6	10	LEU
31	D6	11	LEU
31	D6	15	GLU
31	D6	16	CYS
31	D6	18	ARG
31	D6	27	LYS
31	D6	42	TRP
32	D7	4	THR
32	D7	8	ASN
32	D7	24	THR
32	D7	43	THR
33	D8	6	THR
33	D8	30	ARG
33	D8	31	HIS
33	D8	32	LEU
33	D8	34	TRP
33	D8	47	LYS
33	D8	59	LYS
33	D8	61	LEU
33	D8	64	TYR
37	DC	29	LEU
37	DC	39	ASP
37	DC	50	ILE
37	DC	173	HIS
37	DC	185	LYS
38	DD	10	THR
38	DD	24	ILE
38	DD	28	GLU

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Mol	Chain	Res	Type
38	DD	35	LYS
38	DD	37	LEU
38	DD	43	ARG
38	DD	44	ASN
38	DD	46	GLN
38	DD	49	ILE
38	DD	61	LEU
38	DD	65	ILE
38	DD	72	LYS
38	DD	94	LEU
38	DD	98	VAL
38	DD	103	ARG
38	DD	111	LEU
38	DD	116	GLN
38	DD	122	ASP
38	DD	131	LEU
38	DD	166	GLN
38	DD	221	VAL
38	DD	228	PRO
38	DD	229	VAL
38	DD	246	PRO
38	DD	257	LEU
38	DD	259	THR
38	DD	260	ARG
38	DD	268	ARG
38	DD	270	ILE
38	DD	271	ILE
39	DE	7	VAL
39	DE	9	VAL
39	DE	12	THR
39	DE	33	VAL
39	DE	34	VAL
39	DE	49	LEU
39	DE	53	PRO
39	DE	55	ASN
39	DE	63	LEU
39	DE	78	LEU
39	DE	79	ARG
39	DE	87	GLU
39	DE	89	ASP
39	DE	94	GLU
39	DE	119	ARG

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Mol	Chain	Res	Type
39	DE	129	HIS
39	DE	134	ILE
39	DE	144	ARG
39	DE	169	ASN
39	DE	175	VAL
39	DE	188	VAL
39	DE	202	LYS
40	DF	23	ASP
40	DF	28	ILE
40	DF	38	ARG
40	DF	66	PRO
40	DF	74	ARG
40	DF	88	VAL
40	DF	100	THR
40	DF	110	LEU
40	DF	125	LEU
40	DF	133	ASN
40	DF	158	THR
40	DF	164	ARG
40	DF	170	LEU
40	DF	175	THR
40	DF	183	VAL
40	DF	196	LEU
40	DF	200	GLU
41	DG	26	GLN
41	DG	29	TRP
41	DG	60	LEU
41	DG	67	LYS
41	DG	77	ILE
41	DG	78	SER
41	DG	83	ARG
41	DG	96	ARG
41	DG	123	ASN
41	DG	125	PHE
41	DG	143	GLU
41	DG	152	LEU
41	DG	155	MET
41	DG	170	ARG
42	DH	9	ILE
42	DH	24	VAL
42	DH	34	GLU
42	DH	42	ARG

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Mol	Chain	Res	Type
42	DH	46	GLU
42	DH	53	GLU
42	DH	70	THR
42	DH	88	LEU
42	DH	89	ILE
42	DH	94	TYR
42	DH	105	LEU
42	DH	116	GLU
42	DH	136	ILE
42	DH	143	GLN
42	DH	153	LYS
42	DH	157	TYR
42	DH	163	TYR
42	DH	170	ARG
43	DI	1	MET
43	DI	20	ASP
43	DI	35	LEU
43	DI	74	ASN
43	DI	77	LEU
43	DI	81	VAL
43	DI	92	VAL
43	DI	109	ILE
43	DI	132	PRO
43	DI	136	VAL
43	DI	139	GLN
43	DI	140	LEU
45	DN	1	MET
45	DN	4	TYR
45	DN	15	LEU
45	DN	23	LEU
45	DN	28	THR
45	DN	32	THR
45	DN	33	LEU
45	DN	34	LEU
45	DN	39	ARG
45	DN	48	MET
45	DN	50	ASP
45	DN	73	THR
45	DN	85	ILE
45	DN	87	LEU
45	DN	89	LYS
45	DN	93	THR

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Mol	Chain	Res	Type
45	DN	103	VAL
45	DN	119	ARG
45	DN	120	LEU
46	DO	20	MET
46	DO	28	SER
46	DO	32	TYR
46	DO	43	VAL
46	DO	48	PRO
46	DO	52	VAL
46	DO	78	ARG
46	DO	98	VAL
46	DO	108	GLU
46	DO	114	ILE
47	DP	6	LEU
47	DP	13	ASN
47	DP	16	ARG
47	DP	18	ARG
47	DP	39	LYS
47	DP	42	SER
47	DP	45	LEU
47	DP	47	ASP
47	DP	57	THR
47	DP	59	LEU
47	DP	61	ARG
47	DP	83	VAL
47	DP	85	LEU
47	DP	91	PHE
47	DP	95	VAL
47	DP	98	GLU
47	DP	112	LEU
47	DP	114	ILE
47	DP	119	GLU
47	DP	135	LEU
48	DQ	45	GLN
48	DQ	79	LEU
48	DQ	89	ASN
48	DQ	91	GLU
48	DQ	109	VAL
48	DQ	110	THR
48	DQ	135	ASP
48	DQ	137	TYR
49	DR	2	ARG

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Mol	Chain	Res	Type
49	DR	9	LYS
49	DR	18	LEU
49	DR	29	LEU
49	DR	37	THR
49	DR	54	LEU
49	DR	66	VAL
49	DR	67	LEU
49	DR	76	VAL
49	DR	79	LEU
49	DR	81	ASP
49	DR	91	GLN
49	DR	94	TYR
49	DR	97	VAL
49	DR	99	LYS
49	DR	100	LEU
49	DR	113	LEU
50	DS	11	LYS
50	DS	12	PHE
50	DS	15	ARG
50	DS	21	THR
50	DS	26	LEU
50	DS	36	TYR
50	DS	44	LYS
50	DS	67	ARG
50	DS	89	ARG
50	DS	92	TYR
50	DS	97	ARG
50	DS	101	LEU
50	DS	106	ARG
51	DT	3	ARG
51	DT	6	LEU
51	DT	13	ARG
51	DT	14	TYR
51	DT	24	PRO
51	DT	41	ARG
51	DT	44	ASP
51	DT	49	VAL
51	DT	51	ARG
51	DT	58	ASN
51	DT	59	THR
51	DT	63	VAL
51	DT	65	LYS

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Mol	Chain	Res	Type
51	DT	72	VAL
51	DT	78	LEU
51	DT	82	LEU
51	DT	85	LYS
51	DT	89	VAL
51	DT	93	ARG
51	DT	95	ARG
51	DT	100	TYR
51	DT	124	ASP
51	DT	128	GLU
52	DU	8	VAL
52	DU	17	ILE
52	DU	59	ARG
52	DU	60	LEU
52	DU	69	CYS
52	DU	74	LEU
52	DU	83	LEU
52	DU	101	ARG
52	DU	102	GLU
52	DU	104	GLN
52	DU	108	GLU
53	DV	1	MET
53	DV	5	VAL
53	DV	13	ARG
53	DV	16	PRO
53	DV	18	LEU
53	DV	19	LYS
53	DV	21	ARG
53	DV	37	VAL
53	DV	39	LEU
53	DV	40	LEU
53	DV	45	THR
53	DV	57	VAL
53	DV	61	VAL
53	DV	79	VAL
53	DV	91	TYR
53	DV	95	LEU
53	DV	99	ILE
54	DW	11	ARG
54	DW	19	LEU
54	DW	39	THR
54	DW	51	LEU

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Mol	Chain	Res	Type
54	DW	52	GLU
54	DW	59	VAL
54	DW	63	ASP
54	DW	82	LEU
54	DW	92	ARG
54	DW	96	ILE
54	DW	107	LEU
55	DX	27	THR
55	DX	35	THR
55	DX	57	LEU
55	DX	68	ARG
56	DY	7	VAL
56	DY	9	LYS
56	DY	14	LEU
56	DY	20	TYR
56	DY	28	LYS
56	DY	29	GLU
56	DY	32	PRO
56	DY	38	ILE
56	DY	53	PRO
56	DY	61	ILE
56	DY	64	GLU
56	DY	66	PRO
56	DY	77	PRO
56	DY	83	THR
57	DZ	6	LYS
57	DZ	29	TYR
57	DZ	41	LEU
57	DZ	43	GLU
57	DZ	59	LEU
57	DZ	70	LEU
57	DZ	71	VAL
57	DZ	87	ASP
57	DZ	121	HIS
57	DZ	123	ASP
57	DZ	127	LYS
57	DZ	145	GLU
57	DZ	157	LEU
57	DZ	169	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (339) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	78	GLN
2	AB	94	ASN
2	AB	95	GLN
2	AB	104	ASN
2	AB	110	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
3	AC	69	HIS
3	AC	107	GLN
3	AC	118	GLN
3	AC	139	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	42	GLN
4	AD	62	GLN
4	AD	77	ASN
4	AD	129	ASN
4	AD	161	ASN
4	AD	201	GLN
5	AE	73	ASN
5	AE	141	GLN
6	AF	7	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	64	GLN
6	AF	100	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	28	ASN
7	AG	64	GLN
7	AG	68	ASN
7	AG	84	ASN
7	AG	86	GLN
7	AG	106	GLN
7	AG	109	ASN
7	AG	122	HIS
7	AG	148	ASN
8	AH	70	GLN
9	AI	31	GLN
9	AI	58	HIS

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Mol	Chain	Res	Type
9	AI	124	GLN
10	AJ	78	ASN
11	AK	13	GLN
11	AK	38	ASN
11	AK	78	GLN
11	AK	93	GLN
11	AK	117	ASN
12	AL	8	ASN
12	AL	49	ASN
12	AL	75	HIS
12	AL	80	HIS
13	AM	40	ASN
13	AM	77	ASN
13	AM	92	HIS
13	AM	101	GLN
15	AO	9	GLN
15	AO	13	GLN
15	AO	37	ASN
15	AO	46	HIS
16	AP	76	GLN
17	AQ	16	GLN
17	AQ	94	ASN
18	AR	36	ASN
19	AS	23	ASN
19	AS	47	HIS
19	AS	57	HIS
20	AT	16	HIS
20	AT	18	GLN
20	AT	26	ASN
20	AT	42	GLN
20	AT	73	HIS
20	AT	75	ASN
25	B0	12	ASN
25	B0	29	GLN
25	B0	70	GLN
26	B1	45	ASN
26	B1	47	GLN
27	B2	46	GLN
27	B2	47	ASN
27	B2	71	ASN
28	B3	19	GLN
28	B3	46	ASN

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Mol	Chain	Res	Type
28	B3	52	HIS
29	B4	6	HIS
29	B4	20	ASN
29	B4	40	HIS
30	B5	4	HIS
30	B5	43	HIS
32	B7	8	ASN
32	B7	36	GLN
33	B8	31	HIS
33	B8	33	ASN
33	B8	43	GLN
34	B9	34	GLN
37	BC	57	GLN
38	BD	44	ASN
38	BD	58	HIS
38	BD	87	ASN
38	BD	126	GLN
38	BD	143	HIS
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	121	ASN
39	BE	129	HIS
39	BE	169	ASN
39	BE	180	ASN
39	BE	192	ASN
40	BF	40	GLN
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
41	BG	40	ASN
41	BG	41	GLN
41	BG	58	GLN
41	BG	130	ASN
42	BH	61	HIS
42	BH	65	HIS
42	BH	74	ASN
42	BH	147	ASN
43	BI	74	ASN

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Mol	Chain	Res	Type
43	BI	104	GLN
43	BI	105	HIS
43	BI	139	GLN
45	BN	56	ASN
45	BN	69	GLN
45	BN	128	HIS
45	BN	130	HIS
46	BO	82	ASN
46	BO	88	ASN
46	BO	89	ASN
47	BP	13	ASN
47	BP	68	GLN
47	BP	84	ASN
48	BQ	12	GLN
48	BQ	45	GLN
48	BQ	123	HIS
49	BR	23	ASN
49	BR	24	GLN
49	BR	50	HIS
49	BR	71	GLN
50	BS	34	HIS
50	BS	68	GLN
51	BT	58	ASN
51	BT	90	GLN
51	BT	123	GLN
52	BU	49	HIS
52	BU	66	ASN
52	BU	72	HIS
52	BU	81	HIS
52	BU	117	GLN
53	BV	11	GLN
54	BW	61	ASN
54	BW	62	HIS
54	BW	102	HIS
55	BX	31	HIS
55	BX	41	ASN
55	BX	55	ASN
57	BZ	55	HIS
57	BZ	75	ASN
57	BZ	118	GLN
57	BZ	132	ASN
57	BZ	151	HIS

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Mol	Chain	Res	Type
2	CB	37	ASN
2	CB	78	GLN
2	CB	94	ASN
2	CB	95	GLN
2	CB	104	ASN
2	CB	110	GLN
2	CB	135	GLN
2	CB	146	GLN
2	CB	204	ASN
3	CC	69	HIS
3	CC	107	GLN
3	CC	118	GLN
3	CC	139	GLN
3	CC	162	GLN
3	CC	170	GLN
3	CC	181	ASN
4	CD	42	GLN
4	CD	62	GLN
4	CD	77	ASN
4	CD	129	ASN
4	CD	161	ASN
4	CD	201	GLN
5	CE	73	ASN
5	CE	78	HIS
5	CE	141	GLN
6	CF	7	ASN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	64	GLN
6	CF	100	ASN
7	CG	11	GLN
7	CG	13	GLN
7	CG	28	ASN
7	CG	64	GLN
7	CG	68	ASN
7	CG	84	ASN
7	CG	106	GLN
7	CG	109	ASN
7	CG	122	HIS
8	CH	70	GLN
9	CI	3	GLN

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Mol	Chain	Res	Type
9	CI	31	GLN
9	CI	58	HIS
9	CI	73	GLN
9	CI	124	GLN
10	CJ	78	ASN
11	CK	13	GLN
11	CK	38	ASN
11	CK	78	GLN
11	CK	93	GLN
11	CK	117	ASN
12	CL	8	ASN
12	CL	49	ASN
12	CL	75	HIS
12	CL	80	HIS
13	CM	12	ASN
13	CM	40	ASN
13	CM	92	HIS
13	CM	101	GLN
15	CO	9	GLN
15	CO	13	GLN
15	CO	37	ASN
15	CO	46	HIS
16	CP	76	GLN
17	CQ	16	GLN
17	CQ	94	ASN
18	CR	36	ASN
19	CS	23	ASN
19	CS	47	HIS
19	CS	57	HIS
20	CT	16	HIS
20	CT	18	GLN
20	CT	26	ASN
20	CT	42	GLN
20	CT	73	HIS
20	CT	75	ASN
25	D0	12	ASN
25	D0	29	GLN
25	D0	70	GLN
26	D1	19	GLN
26	D1	45	ASN
26	D1	56	GLN
27	D2	46	GLN

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Mol	Chain	Res	Type
27	D2	47	ASN
27	D2	70	GLN
28	D3	19	GLN
28	D3	46	ASN
28	D3	52	HIS
29	D4	6	HIS
29	D4	20	ASN
29	D4	40	HIS
29	D4	46	GLN
30	D5	4	HIS
30	D5	43	HIS
32	D7	8	ASN
32	D7	36	GLN
33	D8	31	HIS
33	D8	33	ASN
33	D8	43	GLN
34	D9	34	GLN
37	DC	57	GLN
38	DD	44	ASN
38	DD	58	HIS
38	DD	87	ASN
38	DD	126	GLN
38	DD	143	HIS
38	DD	166	GLN
38	DD	186	HIS
38	DD	198	ASN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	121	ASN
39	DE	129	HIS
39	DE	137	HIS
39	DE	169	ASN
39	DE	180	ASN
39	DE	192	ASN
40	DF	40	GLN
40	DF	75	HIS
40	DF	133	ASN
40	DF	160	ASN
40	DF	169	ASN
41	DG	66	GLN
42	DH	61	HIS

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Mol	Chain	Res	Type
42	DH	65	HIS
42	DH	74	ASN
42	DH	147	ASN
43	DI	28	ASN
43	DI	43	ASN
43	DI	74	ASN
43	DI	104	GLN
43	DI	139	GLN
45	DN	56	ASN
45	DN	69	GLN
45	DN	128	HIS
45	DN	130	HIS
46	DO	82	ASN
46	DO	88	ASN
46	DO	89	ASN
47	DP	13	ASN
47	DP	68	GLN
47	DP	84	ASN
48	DQ	12	GLN
48	DQ	45	GLN
49	DR	23	ASN
49	DR	24	GLN
49	DR	71	GLN
50	DS	34	HIS
50	DS	68	GLN
51	DT	58	ASN
51	DT	90	GLN
51	DT	123	GLN
52	DU	49	HIS
52	DU	66	ASN
52	DU	72	HIS
52	DU	81	HIS
52	DU	94	ASN
52	DU	117	GLN
53	DV	11	GLN
54	DW	61	ASN
54	DW	62	HIS
54	DW	102	HIS
55	DX	31	HIS
55	DX	41	ASN
55	DX	55	ASN
57	DZ	32	HIS

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Mol	Chain	Res	Type
57	DZ	75	ASN
57	DZ	118	GLN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	218 (14%)	29 (1%)
1	CA	1503/1522 (98%)	221 (14%)	31 (2%)
22	AV	75/78 (96%)	25 (33%)	0
22	AY	75/78 (96%)	24 (32%)	2 (2%)
22	CV	75/78 (96%)	24 (32%)	0
22	CY	75/78 (96%)	23 (30%)	2 (2%)
23	AW	77/78 (98%)	41 (53%)	4 (5%)
23	CW	77/78 (98%)	39 (50%)	3 (3%)
24	AX	11/24 (45%)	2 (18%)	0
24	CX	11/24 (45%)	2 (18%)	0
35	BA	2847/2915 (97%)	502 (17%)	49 (1%)
35	DA	2847/2915 (97%)	501 (17%)	49 (1%)
36	BB	118/122 (96%)	18 (15%)	1 (0%)
36	DB	118/122 (96%)	17 (14%)	1 (0%)
All	All	9412/9634 (97%)	1657 (17%)	171 (1%)

All (1657) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	61	G
1	AA	77	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	89	C
1	AA	90	U
1	AA	97	G

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Mol	Chain	Res	Type
1	AA	98	G
1	AA	101	A
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	147	G
1	AA	150	C
1	AA	172	A
1	AA	173	U
1	AA	189(F)	U
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	203	U
1	AA	204	U
1	AA	217	C
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	281	G
1	AA	289	G
1	AA	316	G
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	342	C
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

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Mol	Chain	Res	Type
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	437	U
1	AA	438	G
1	AA	439	A
1	AA	452	A
1	AA	455	C
1	AA	461	A
1	AA	471	G
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	547	A
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	588	G
1	AA	619	U
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	653	A
1	AA	665	A
1	AA	687	A

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Mol	Chain	Res	Type
1	AA	688	G
1	AA	703	G
1	AA	724	G
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	793	U
1	AA	794	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
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	848	C
1	AA	859	A
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
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	1001(A)	G
1	AA	1026	G

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Mol	Chain	Res	Type
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1067	A
1	AA	1068	G
1	AA	1085	U
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	1129	C
1	AA	1131	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1152	A
1	AA	1159	U
1	AA	1184	G
1	AA	1196	U
1	AA	1197	G
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1249	C
1	AA	1255	G
1	AA	1256	A
1	AA	1257	U
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A

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Mol	Chain	Res	Type
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	1319	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1347	G
1	AA	1364	U
1	AA	1365	G
1	AA	1370	G
1	AA	1398	A
1	AA	1419	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1452	C
1	AA	1487	G
1	AA	1492	A
1	AA	1497	G
1	AA	1499	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	3	G
22	AV	5	C
22	AV	7	U
22	AV	8	U
22	AV	12	U
22	AV	13	U
22	AV	14	A
22	AV	15	G

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Mol	Chain	Res	Type
22	AV	17	C
22	AV	18	U
22	AV	19	G
22	AV	20	G
22	AV	21	U
22	AV	23	A
22	AV	24	A
22	AV	49	G
22	AV	50	C
22	AV	51	G
22	AV	62	U
22	AV	63	C
22	AV	65	G
22	AV	69	G
22	AV	71	G
22	AV	77	C
22	AV	78	A
23	AW	3	G
23	AW	4	C
23	AW	5	C
23	AW	7	U
23	AW	8	U
23	AW	9	A
23	AW	12	U
23	AW	13	U
23	AW	14	A
23	AW	17	C
23	AW	18	U
23	AW	19	G
23	AW	20	G
23	AW	21	U
23	AW	23	A
23	AW	24	A
23	AW	28	G
23	AW	29	A
23	AW	34	C
23	AW	35	U
23	AW	37	A
23	AW	39	A
23	AW	40	A
23	AW	41	C
23	AW	45	U

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Mol	Chain	Res	Type
23	AW	47	G
23	AW	48	G
23	AW	49	G
23	AW	50	C
23	AW	51	G
23	AW	52	C
23	AW	59	G
23	AW	62	U
23	AW	63	C
23	AW	65	G
23	AW	69	G
23	AW	70	G
23	AW	73	C
23	AW	74	C
23	AW	75	A
23	AW	78	A
24	AX	15	A
24	AX	19	A
22	AY	2	G
22	AY	3	G
22	AY	4	C
22	AY	5	C
22	AY	7	U
22	AY	14	A
22	AY	17	C
22	AY	18	U
22	AY	19	G
22	AY	20	G
22	AY	21	U
22	AY	23	A
22	AY	24	A
22	AY	28	G
22	AY	30	U
22	AY	32	G
22	AY	35	U
22	AY	47	G
22	AY	49	G
22	AY	50	C
22	AY	51	G
22	AY	56	U
22	AY	65	G
22	AY	77	C

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Mol	Chain	Res	Type
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	61	G
35	BA	71	A
35	BA	72	U
35	BA	74	A
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(A)	C
35	BA	155	U
35	BA	156	U
35	BA	171	G
35	BA	173	G
35	BA	174	C
35	BA	181	A
35	BA	196	A
35	BA	197	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	228	A
35	BA	229	A

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Mol	Chain	Res	Type
35	BA	230	U
35	BA	233	A
35	BA	248	G
35	BA	252	G
35	BA	266	G
35	BA	271(J)	C
35	BA	271(N)	U
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(R)	G
35	BA	272	G
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	272(I)	U
35	BA	274	G
35	BA	276	A
35	BA	277	C
35	BA	288	C
35	BA	311	A
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	358	U
35	BA	363(B)	G
35	BA	363(E)	U
35	BA	363(F)	A
35	BA	365	C
35	BA	372	G
35	BA	386	G
35	BA	387	U
35	BA	388	G
35	BA	396	G
35	BA	405	U
35	BA	406	G
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	444	C

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Mol	Chain	Res	Type
35	BA	448	U
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	528	A
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	544	G
35	BA	547	A
35	BA	548	A
35	BA	549	G
35	BA	556	G
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	588	U
35	BA	603	A
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614	U
35	BA	614(B)	G
35	BA	615	G
35	BA	622	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	653	A
35	BA	654	A
35	BA	654(C)	G
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(L)	G

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Mol	Chain	Res	Type
35	BA	654(M)	C
35	BA	654(N)	G
35	BA	654(T)	C
35	BA	669	G
35	BA	670	A
35	BA	673	C
35	BA	686	G
35	BA	708	C
35	BA	722	A
35	BA	730	C
35	BA	753	C
35	BA	764	A
35	BA	765	G
35	BA	776	G
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	910	A
35	BA	917	A
35	BA	927	G
35	BA	932	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	958	U
35	BA	959	A

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Mol	Chain	Res	Type
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	1015	G
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	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	1054	A
35	BA	1110	G
35	BA	1112	G
35	BA	1113	U
35	BA	1114	G
35	BA	1116	C
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1142	U
35	BA	1143	A
35	BA	1155	A
35	BA	1171	G
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1178	C

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Mol	Chain	Res	Type
35	BA	1180	C
35	BA	1195	G
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1221	C
35	BA	1247	A
35	BA	1248	G
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	1275	A
35	BA	1281	G
35	BA	1286	A
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1314	C
35	BA	1319	G
35	BA	1321	A
35	BA	1332	G
35	BA	1345	C
35	BA	1349	A
35	BA	1359	A
35	BA	1360	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	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1419	A
35	BA	1420	U
35	BA	1427	A
35	BA	1428	C

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Mol	Chain	Res	Type
35	BA	1445	A
35	BA	1449	A
35	BA	1450	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	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1497	U
35	BA	1502	C
35	BA	1505	C
35	BA	1508	A
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1520	G
35	BA	1528(A)	A
35	BA	1534	U
35	BA	1541	G
35	BA	1542	A
35	BA	1544	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
35	BA	1591	G
35	BA	1603	A
35	BA	1608	A
35	BA	1617	C

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Mol	Chain	Res	Type
35	BA	1618	A
35	BA	1640	C
35	BA	1648	C
35	BA	1653	G
35	BA	1654	A
35	BA	1674	G
35	BA	1694	C
35	BA	1696	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1742	G
35	BA	1745(A)	C
35	BA	1746	G
35	BA	1748	G
35	BA	1756	G
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	1801	G
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1835	G
35	BA	1846	G
35	BA	1847	A
35	BA	1848	A
35	BA	1858	G
35	BA	1865	G
35	BA	1866	C
35	BA	1878	G
35	BA	1881	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1900	A
35	BA	1903	G

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Mol	Chain	Res	Type
35	BA	1906	G
35	BA	1912	A
35	BA	1913	A
35	BA	1914	C
35	BA	1915	U
35	BA	1916	A
35	BA	1929	G
35	BA	1930	G
35	BA	1938	A
35	BA	1955	U
35	BA	1963	U
35	BA	1965	C
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1982	C
35	BA	1987	G
35	BA	1993	U
35	BA	1997	G
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2036	C
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	2063	C
35	BA	2069	G
35	BA	2093	G
35	BA	2096	U
35	BA	2100	G
35	BA	2103	C
35	BA	2104	G
35	BA	2116	G
35	BA	2118	U
35	BA	2127	G

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Mol	Chain	Res	Type
35	BA	2131	G
35	BA	2133	G
35	BA	2172	U
35	BA	2173	A
35	BA	2177	C
35	BA	2179	C
35	BA	2180	U
35	BA	2185	C
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2192	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2206	G
35	BA	2207	G
35	BA	2208	A
35	BA	2218	U
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2268	A
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2288	A
35	BA	2302	G
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2311	A
35	BA	2313	C
35	BA	2316	C
35	BA	2319	G
35	BA	2320	A
35	BA	2327	A
35	BA	2334	G

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Mol	Chain	Res	Type
35	BA	2336	A
35	BA	2345	G
35	BA	2347	C
35	BA	2350	C
35	BA	2361	A
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	2424	C
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2435	A
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2465	C
35	BA	2468	G
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	2484	G
35	BA	2491	U
35	BA	2502	G
35	BA	2505	G
35	BA	2518	A
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	2572	A
35	BA	2573	C
35	BA	2582	G

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Mol	Chain	Res	Type
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	2657	A
35	BA	2673	G
35	BA	2690	C
35	BA	2691	C
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	2762	G
35	BA	2765	A
35	BA	2766	G
35	BA	2778	A
35	BA	2780	G
35	BA	2787	C
35	BA	2789	C
35	BA	2790	A
35	BA	2791	C
35	BA	2794	C
35	BA	2802	G
35	BA	2803	C
35	BA	2804	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2833	G
35	BA	2834	G
35	BA	2849	U
35	BA	2872	G
35	BA	2879	C
35	BA	2880	C
35	BA	2893	G
36	BB	2	C
36	BB	8	U

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Mol	Chain	Res	Type
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	27	C
36	BB	33	G
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	52	A
36	BB	53	A
36	BB	67	G
36	BB	73	A
36	BB	81	G
36	BB	88	C
36	BB	110	G
36	BB	113	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	60	A
1	CA	61	G
1	CA	77	G
1	CA	79	G
1	CA	80	G
1	CA	81	U
1	CA	89	C
1	CA	90	U
1	CA	97	G
1	CA	98	G
1	CA	101	A
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	147	G
1	CA	150	C

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Mol	Chain	Res	Type
1	CA	172	A
1	CA	173	U
1	CA	189(F)	U
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	203	U
1	CA	204	U
1	CA	217	C
1	CA	244	U
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	316	G
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	342	C
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	412	A
1	CA	413	G
1	CA	421	U
1	CA	422	C
1	CA	423	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	437	U
1	CA	438	G
1	CA	439	A
1	CA	452	A

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Mol	Chain	Res	Type
1	CA	455	C
1	CA	461	A
1	CA	471	G
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	512	U
1	CA	518	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	547	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	630	G
1	CA	631	G
1	CA	632	A
1	CA	653	A
1	CA	665	A
1	CA	687	A
1	CA	688	G
1	CA	703	G
1	CA	724	G
1	CA	731	G
1	CA	749	C
1	CA	755	G
1	CA	793	U
1	CA	794	A
1	CA	817	C
1	CA	818	G
1	CA	819	A

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Mol	Chain	Res	Type
1	CA	821	G
1	CA	828	A
1	CA	833	U
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	859	A
1	CA	885	G
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	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	1001(A)	G
1	CA	1026	G
1	CA	1050	G
1	CA	1054	C
1	CA	1055	A
1	CA	1067	A
1	CA	1068	G
1	CA	1085	U
1	CA	1095	U
1	CA	1101	A
1	CA	1108	G
1	CA	1117	G

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Mol	Chain	Res	Type
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1152	A
1	CA	1159	U
1	CA	1184	G
1	CA	1196	U
1	CA	1197	G
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1225	A
1	CA	1226	C
1	CA	1238	A
1	CA	1249	C
1	CA	1255	G
1	CA	1256	A
1	CA	1257	U
1	CA	1280	A
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	1319	A
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1347	G

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Mol	Chain	Res	Type
1	CA	1364	U
1	CA	1365	G
1	CA	1370	G
1	CA	1398	A
1	CA	1401	G
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1447	A
1	CA	1452	C
1	CA	1491	G
1	CA	1492	A
1	CA	1493	A
1	CA	1494	G
1	CA	1497	G
1	CA	1498	U
1	CA	1499	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1508	G
1	CA	1517	G
1	CA	1529	G
1	CA	1530	G
22	CV	3	G
22	CV	5	C
22	CV	7	U
22	CV	8	U
22	CV	12	U
22	CV	13	U
22	CV	15	G
22	CV	17	C
22	CV	18	U
22	CV	19	G
22	CV	20	G
22	CV	21	U
22	CV	23	A
22	CV	24	A
22	CV	49	G

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Mol	Chain	Res	Type
22	CV	50	C
22	CV	51	G
22	CV	62	U
22	CV	63	C
22	CV	65	G
22	CV	69	G
22	CV	71	G
22	CV	77	C
22	CV	78	A
23	CW	3	G
23	CW	4	C
23	CW	5	C
23	CW	7	U
23	CW	8	U
23	CW	9	A
23	CW	12	U
23	CW	13	U
23	CW	14	A
23	CW	17	C
23	CW	18	U
23	CW	19	G
23	CW	20	G
23	CW	21	U
23	CW	23	A
23	CW	24	A
23	CW	28	G
23	CW	34	C
23	CW	35	U
23	CW	39	A
23	CW	40	A
23	CW	41	C
23	CW	45	U
23	CW	47	G
23	CW	48	G
23	CW	49	G
23	CW	50	C
23	CW	51	G
23	CW	52	C
23	CW	59	G
23	CW	62	U
23	CW	63	C
23	CW	65	G

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Mol	Chain	Res	Type
23	CW	69	G
23	CW	70	G
23	CW	73	C
23	CW	74	C
23	CW	75	A
23	CW	78	A
24	CX	15	A
24	CX	19	A
22	CY	2	G
22	CY	3	G
22	CY	4	C
22	CY	5	C
22	CY	7	U
22	CY	14	A
22	CY	17	C
22	CY	18	U
22	CY	19	G
22	CY	20	G
22	CY	21	U
22	CY	23	A
22	CY	24	A
22	CY	28	G
22	CY	30	U
22	CY	32	G
22	CY	35	U
22	CY	47	G
22	CY	49	G
22	CY	50	C
22	CY	51	G
22	CY	65	G
22	CY	77	C
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	61	G
35	DA	71	A
35	DA	72	U
35	DA	74	A

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Mol	Chain	Res	Type
35	DA	75	G
35	DA	88	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	142(A)	C
35	DA	146	G
35	DA	154(A)	C
35	DA	155	U
35	DA	156	U
35	DA	171	G
35	DA	173	G
35	DA	174	C
35	DA	181	A
35	DA	196	A
35	DA	197	A
35	DA	199	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	228	A
35	DA	229	A
35	DA	230	U
35	DA	233	A
35	DA	248	G
35	DA	252	G
35	DA	266	G
35	DA	271(J)	C
35	DA	271(N)	U
35	DA	271(O)	C
35	DA	271(P)	C
35	DA	271(R)	G

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Mol	Chain	Res	Type
35	DA	272	G
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	272(I)	U
35	DA	274	G
35	DA	276	A
35	DA	277	C
35	DA	288	C
35	DA	311	A
35	DA	329	G
35	DA	330	A
35	DA	332	A
35	DA	333	G
35	DA	352	G
35	DA	353	G
35	DA	356	G
35	DA	358	U
35	DA	363(B)	G
35	DA	363(E)	U
35	DA	363(F)	A
35	DA	365	C
35	DA	372	G
35	DA	386	G
35	DA	387	U
35	DA	388	G
35	DA	396	G
35	DA	405	U
35	DA	406	G
35	DA	411	G
35	DA	412	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U
35	DA	481	G
35	DA	494	G
35	DA	505	A
35	DA	508	G
35	DA	509	C

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Mol	Chain	Res	Type
35	DA	528	A
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	544	G
35	DA	547	A
35	DA	548	A
35	DA	549	G
35	DA	556	G
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	588	U
35	DA	603	A
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614	U
35	DA	614(B)	G
35	DA	615	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	653	A
35	DA	654	A
35	DA	654(C)	G
35	DA	654(I)	C
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(L)	G
35	DA	654(M)	C
35	DA	654(N)	G
35	DA	654(T)	C
35	DA	669	G
35	DA	670	A
35	DA	673	C
35	DA	686	G
35	DA	708	C
35	DA	717	G
35	DA	722	A

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Mol	Chain	Res	Type
35	DA	730	C
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	776	G
35	DA	782	A
35	DA	784	A
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	878	A
35	DA	890	A
35	DA	896	A
35	DA	897	C
35	DA	910	A
35	DA	917	A
35	DA	927	G
35	DA	932	G
35	DA	941	A
35	DA	945	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

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Mol	Chain	Res	Type
35	DA	1013	C
35	DA	1015	G
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G
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	1054	A
35	DA	1110	G
35	DA	1112	G
35	DA	1113	U
35	DA	1114	G
35	DA	1116	C
35	DA	1129	A
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G
35	DA	1142	U
35	DA	1143	A
35	DA	1155	A
35	DA	1171	G
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1178	C
35	DA	1180	C
35	DA	1195	G
35	DA	1205	U
35	DA	1210	A
35	DA	1211	U
35	DA	1221	C
35	DA	1247	A
35	DA	1248	G
35	DA	1250	G

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Mol	Chain	Res	Type
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	1275	A
35	DA	1281	G
35	DA	1300	U
35	DA	1301	A
35	DA	1302	A
35	DA	1314	C
35	DA	1319	G
35	DA	1321	A
35	DA	1332	G
35	DA	1345	C
35	DA	1349	A
35	DA	1359	A
35	DA	1360	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	1407	C
35	DA	1416	G
35	DA	1417	C
35	DA	1419	A
35	DA	1420	U
35	DA	1428	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	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

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Mol	Chain	Res	Type
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1497	U
35	DA	1502	C
35	DA	1505	C
35	DA	1508	A
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1520	G
35	DA	1528(A)	A
35	DA	1534	U
35	DA	1541	G
35	DA	1542	A
35	DA	1544	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	1591	G
35	DA	1603	A
35	DA	1608	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	1674	G
35	DA	1694	C
35	DA	1696	G
35	DA	1698	A
35	DA	1722	A
35	DA	1739	U

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Mol	Chain	Res	Type
35	DA	1740	G
35	DA	1742	G
35	DA	1745(A)	C
35	DA	1746	G
35	DA	1748	G
35	DA	1756	G
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	1801	G
35	DA	1816	G
35	DA	1820	U
35	DA	1821	A
35	DA	1835	G
35	DA	1846	G
35	DA	1847	A
35	DA	1848	A
35	DA	1858	G
35	DA	1865	G
35	DA	1866	C
35	DA	1878	G
35	DA	1881	C
35	DA	1882	C
35	DA	1885	A
35	DA	1888	G
35	DA	1889	A
35	DA	1900	A
35	DA	1903	G
35	DA	1906	G
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	1938	A
35	DA	1955	U

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Mol	Chain	Res	Type
35	DA	1963	U
35	DA	1965	C
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1982	C
35	DA	1987	G
35	DA	1993	U
35	DA	1997	G
35	DA	2023	G
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2036	C
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	2063	C
35	DA	2069	G
35	DA	2093	G
35	DA	2096	U
35	DA	2100	G
35	DA	2103	C
35	DA	2104	G
35	DA	2116	G
35	DA	2118	U
35	DA	2127	G
35	DA	2131	G
35	DA	2133	G
35	DA	2172	U
35	DA	2173	A
35	DA	2177	C
35	DA	2179	C
35	DA	2180	U
35	DA	2185	C
35	DA	2187	G
35	DA	2189	U

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Mol	Chain	Res	Type
35	DA	2190	G
35	DA	2192	G
35	DA	2193	G
35	DA	2198	A
35	DA	2200	C
35	DA	2206	G
35	DA	2207	G
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	2268	A
35	DA	2275	C
35	DA	2283	C
35	DA	2287	A
35	DA	2288	A
35	DA	2302	G
35	DA	2305	A
35	DA	2307	G
35	DA	2308	G
35	DA	2309	A
35	DA	2311	A
35	DA	2313	C
35	DA	2316	C
35	DA	2319	G
35	DA	2320	A
35	DA	2327	A
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	2383	G
35	DA	2385	C
35	DA	2400	G
35	DA	2402	C
35	DA	2406	U
35	DA	2423	U

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Mol	Chain	Res	Type
35	DA	2424	C
35	DA	2425	A
35	DA	2429	G
35	DA	2430	A
35	DA	2435	A
35	DA	2439	A
35	DA	2441	C
35	DA	2448	A
35	DA	2465	C
35	DA	2468	G
35	DA	2469	A
35	DA	2470	G
35	DA	2476	A
35	DA	2477	C
35	DA	2478	A
35	DA	2482	G
35	DA	2484	G
35	DA	2491	U
35	DA	2502	G
35	DA	2505	G
35	DA	2518	A
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	2572	A
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	2657	A
35	DA	2673	G
35	DA	2690	C
35	DA	2691	C
35	DA	2712	U

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Mol	Chain	Res	Type
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2720	U
35	DA	2726	U
35	DA	2752	C
35	DA	2762	G
35	DA	2765	A
35	DA	2766	G
35	DA	2778	A
35	DA	2780	G
35	DA	2787	C
35	DA	2789	C
35	DA	2790	A
35	DA	2791	C
35	DA	2794	C
35	DA	2802	G
35	DA	2803	C
35	DA	2804	C
35	DA	2808	U
35	DA	2820	A
35	DA	2821	A
35	DA	2833	G
35	DA	2834	G
35	DA	2849	U
35	DA	2872	G
35	DA	2879	C
35	DA	2880	C
35	DA	2893	G
36	DB	8	U
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	27	C
36	DB	33	G
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	52	A
36	DB	53	A
36	DB	67	G
36	DB	73	A
36	DB	81	G

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Mol	Chain	Res	Type
36	DB	88	C
36	DB	110	G
36	DB	113	G

All (171) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	328	C
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	484	G
1	AA	509	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	748	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1054	C
1	AA	1067	A
1	AA	1201	A
1	AA	1281	U
1	AA	1285	A
1	AA	1300	G
1	AA	1498	U
1	AA	1504	G
23	AW	7	U
23	AW	39	A
23	AW	40	A
23	AW	74	C
22	AY	4	C
22	AY	27	C

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Mol	Chain	Res	Type
35	BA	49	A
35	BA	71	A
35	BA	74	A
35	BA	128	C
35	BA	146	G
35	BA	221	A
35	BA	272	G
35	BA	331	A
35	BA	332	A
35	BA	387	U
35	BA	474	G
35	BA	587	C
35	BA	603	A
35	BA	613	G
35	BA	614(C)	A
35	BA	669	G
35	BA	752	A
35	BA	764	A
35	BA	790	C
35	BA	1022	G
35	BA	1210	A
35	BA	1286	A
35	BA	1395	A
35	BA	1427	A
35	BA	1558	A
35	BA	1608	A
35	BA	1652	A
35	BA	1653	G
35	BA	1799	G
35	BA	1819	A
35	BA	1820	U
35	BA	1846	G
35	BA	1885	A
35	BA	1970	A
35	BA	1992	G
35	BA	2033	A
35	BA	2062	A
35	BA	2126	A
35	BA	2171	A
35	BA	2225	A
35	BA	2282	G
35	BA	2360	A

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Mol	Chain	Res	Type
35	BA	2405	G
35	BA	2422	A
35	BA	2439	A
35	BA	2481	G
35	BA	2542	A
35	BA	2611	U
35	BA	2689	U
36	BB	66	A
1	CA	30	U
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	328	C
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	484	G
1	CA	509	A
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	748	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1054	C
1	CA	1067	A
1	CA	1201	A
1	CA	1281	U
1	CA	1285	A
1	CA	1300	G
1	CA	1400	C
1	CA	1492	A
1	CA	1498	U
1	CA	1504	G
23	CW	7	U
23	CW	40	A
23	CW	74	C

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Mol	Chain	Res	Type
22	CY	4	C
22	CY	27	C
35	DA	49	A
35	DA	71	A
35	DA	74	A
35	DA	128	C
35	DA	221	A
35	DA	272	G
35	DA	331	A
35	DA	332	A
35	DA	387	U
35	DA	474	G
35	DA	587	C
35	DA	603	A
35	DA	613	G
35	DA	614(C)	A
35	DA	669	G
35	DA	685	A
35	DA	752	A
35	DA	764	A
35	DA	790	C
35	DA	1022	G
35	DA	1210	A
35	DA	1286	A
35	DA	1395	A
35	DA	1427	A
35	DA	1558	A
35	DA	1608	A
35	DA	1652	A
35	DA	1653	G
35	DA	1799	G
35	DA	1819	A
35	DA	1820	U
35	DA	1846	G
35	DA	1885	A
35	DA	1970	A
35	DA	1992	G
35	DA	2033	A
35	DA	2062	A
35	DA	2126	A
35	DA	2171	A
35	DA	2225	A

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Mol	Chain	Res	Type
35	DA	2282	G
35	DA	2360	A
35	DA	2405	G
35	DA	2422	A
35	DA	2439	A
35	DA	2481	G
35	DA	2542	A
35	DA	2611	U
35	DA	2689	U
36	DB	66	A

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
22	AG9	CY	36	22	21,29,30	2.00	5 (23%)	23,39,42	1.10	2 (8%)
22	AG9	AY	36	22	21,29,30	1.51	3 (14%)	23,39,42	1.27	3 (13%)
22	AG9	CV	36	22	21,29,30	1.66	3 (14%)	23,39,42	1.08	2 (8%)
22	AG9	AV	36	22	21,29,30	1.07	2 (9%)	23,39,42	1.09	2 (8%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	AG9	CY	36	22	1/1/9/13	7/14/47/48	0/2/2/2
22	AG9	AY	36	22	1/1/9/13	7/14/47/48	0/2/2/2
22	AG9	CV	36	22	1/1/9/13	3/14/47/48	0/2/2/2
22	AG9	AV	36	22	1/1/9/13	3/14/47/48	0/2/2/2

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	CY	36	AG9	C2-N1	6.08	1.43	1.38
22	CV	36	AG9	C2-N1	5.59	1.43	1.38
22	AY	36	AG9	C2-N1	5.10	1.42	1.38
22	CV	36	AG9	C2-N3	3.90	1.37	1.30
22	CY	36	AG9	C2-N3	3.44	1.36	1.30
22	AV	36	AG9	C4-C5	-3.44	1.42	1.49
22	CY	36	AG9	C1'-N1	3.11	1.56	1.47
22	AY	36	AG9	C2-N3	3.08	1.36	1.30
22	AY	36	AG9	C4-C5	-2.84	1.43	1.49
22	CY	36	AG9	C4-C5	-2.80	1.43	1.49
22	CY	36	AG9	C2-N2	2.77	1.38	1.34
22	CV	36	AG9	C4-C5	-2.59	1.44	1.49
22	AV	36	AG9	C2-N3	2.59	1.35	1.30

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AY	36	AG9	N2-C2-N1	3.73	119.71	117.34
22	AV	36	AG9	N2-C2-N1	3.49	119.56	117.34
22	CV	36	AG9	N2-C2-N1	3.47	119.54	117.34
22	AY	36	AG9	CD-NE-CZ	3.16	124.72	114.65
22	CV	36	AG9	CD-NE-CZ	3.07	124.45	114.65
22	AV	36	AG9	CD-NE-CZ	3.05	124.38	114.65
22	CY	36	AG9	CD-NE-CZ	2.98	124.17	114.65
22	CY	36	AG9	C2'-C1'-N1	2.73	120.86	113.25
22	AY	36	AG9	C2'-C1'-N1	2.57	120.41	113.25

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	AV	36	AG9	C4
22	AY	36	AG9	C4
22	CV	36	AG9	C4
22	CY	36	AG9	C4

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	AV	36	AG9	N1-C2-N2-CA
22	AV	36	AG9	N3-C2-N2-CA
22	AY	36	AG9	N1-C2-N2-CA

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Mol	Chain	Res	Type	Atoms
22	AY	36	AG9	N3-C2-N2-CA
22	CV	36	AG9	N1-C2-N2-CA
22	CV	36	AG9	N3-C2-N2-CA
22	CY	36	AG9	N1-C2-N2-CA
22	CY	36	AG9	N3-C2-N2-CA
22	CY	36	AG9	C3'-C4'-C5'-O5'
22	CY	36	AG9	O4'-C4'-C5'-O5'
22	AY	36	AG9	C3'-C4'-C5'-O5'
22	AY	36	AG9	O4'-C4'-C5'-O5'
22	AY	36	AG9	CA-CB-CG-CD
22	CY	36	AG9	CA-CB-CG-CD
22	CY	36	AG9	NE-CD-CG-CB
22	AY	36	AG9	N2-CA-CB-CG
22	CY	36	AG9	N2-CA-CB-CG
22	AV	36	AG9	CG-CD-NE-CZ
22	CV	36	AG9	CG-CD-NE-CZ
22	AY	36	AG9	NE-CD-CG-CB

There are no ring outliers.

4 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	CY	36	AG9	7	0
22	AY	36	AG9	11	0
22	CV	36	AG9	12	0
22	AV	36	AG9	6	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 4 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	5
13	CM	5
9	AI	2
9	CI	2
41	DG	1
41	BG	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AM	112:GLY	C	113:PRO	N	4.84
1	CM	112:GLY	C	113:PRO	N	4.84
1	AM	69:GLU	C	70:LEU	N	4.24
1	CM	69:GLU	C	70:LEU	N	4.23
1	DG	112:PRO	C	113:ARG	N	4.14
1	BG	112:PRO	C	113:ARG	N	3.98
1	AI	53:VAL	C	54:ASP	N	3.80
1	CI	53:VAL	C	54:ASP	N	3.77
1	CM	118:ALA	C	119:GLY	N	3.12
1	AM	118:ALA	C	119:GLY	N	3.10
1	CM	97:PRO	C	98:VAL	N	3.10
1	AM	97:PRO	C	98:VAL	N	3.09
1	AI	104:ARG	C	105:ASP	N	2.79
1	CM	65:LYS	C	66:LEU	N	2.79
1	CI	104:ARG	C	105:ASP	N	2.78
1	AM	65:LYS	C	66:LEU	N	2.77

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	AA	1504/1522 (98%)	1.44	403 (26%)	1	1	44, 101, 184, 200	0
1	CA	1504/1522 (98%)	1.44	367 (24%)	2	1	55, 115, 186, 200	0
2	AB	235/256 (91%)	1.19	44 (18%)	3	1	75, 134, 176, 198	0
2	CB	235/256 (91%)	1.49	59 (25%)	1	1	94, 148, 183, 200	0
3	AC	207/239 (86%)	1.48	51 (24%)	2	1	82, 127, 157, 179	0
3	CC	207/239 (86%)	1.52	48 (23%)	2	1	92, 141, 170, 185	0
4	AD	208/209 (99%)	1.57	65 (31%)	1	1	64, 112, 142, 179	0
4	CD	208/209 (99%)	1.13	37 (17%)	4	2	56, 99, 135, 157	0
5	AE	151/162 (93%)	0.99	19 (12%)	8	4	65, 95, 142, 167	0
5	CE	151/162 (93%)	1.48	43 (28%)	1	1	69, 119, 151, 160	0
6	AF	101/101 (100%)	0.96	8 (7%)	18	10	59, 98, 138, 173	0
6	CF	101/101 (100%)	0.79	6 (5%)	28	15	64, 110, 133, 173	0
7	AG	155/156 (99%)	1.63	52 (33%)	1	0	76, 123, 155, 198	0
7	CG	155/156 (99%)	1.50	35 (22%)	2	1	94, 131, 160, 194	0
8	AH	138/138 (100%)	1.02	13 (9%)	14	8	61, 101, 128, 144	0
8	CH	138/138 (100%)	1.31	27 (19%)	3	1	83, 121, 148, 166	0
9	AI	127/128 (99%)	1.87	53 (41%)	0	0	81, 148, 176, 191	0
9	CI	127/128 (99%)	1.99	53 (41%)	0	0	99, 153, 181, 193	0
10	AJ	99/105 (94%)	1.88	37 (37%)	1	0	71, 149, 177, 185	0
10	CJ	99/105 (94%)	2.11	49 (49%)	0	0	97, 159, 182, 189	0
11	AK	119/129 (92%)	1.04	15 (12%)	8	4	63, 94, 136, 187	0
11	CK	119/129 (92%)	1.08	15 (12%)	8	4	78, 108, 141, 176	0
12	AL	125/135 (92%)	1.97	55 (44%)	0	0	53, 93, 146, 180	0
12	CL	125/135 (92%)	1.71	42 (33%)	1	0	63, 111, 149, 177	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
13	AM	119/126 (94%)	2.15	55 (46%)	0	0	75, 129, 161, 178	0
13	CM	119/126 (94%)	1.83	43 (36%)	1	0	96, 150, 169, 186	0
14	AN	60/61 (98%)	2.25	29 (48%)	0	0	71, 118, 145, 157	0
14	CN	60/61 (98%)	1.87	28 (46%)	0	0	108, 143, 166, 187	0
15	AO	88/89 (98%)	0.79	5 (5%)	29	16	60, 97, 130, 148	0
15	CO	88/89 (98%)	1.10	11 (12%)	8	5	67, 110, 138, 146	0
16	AP	84/88 (95%)	1.81	35 (41%)	0	0	67, 112, 156, 178	0
16	CP	84/88 (95%)	1.02	9 (10%)	11	6	60, 87, 137, 157	0
17	AQ	100/105 (95%)	1.20	17 (17%)	4	2	74, 109, 138, 151	0
17	CQ	100/105 (95%)	1.18	16 (16%)	5	2	70, 109, 139, 165	0
18	AR	70/88 (79%)	0.88	5 (7%)	22	12	69, 98, 139, 157	0
18	CR	70/88 (79%)	0.92	8 (11%)	10	5	77, 111, 148, 156	0
19	AS	79/93 (84%)	2.60	52 (65%)	0	0	89, 137, 171, 185	0
19	CS	79/93 (84%)	2.10	35 (44%)	0	0	112, 154, 178, 200	0
20	AT	99/106 (93%)	1.63	30 (30%)	1	1	65, 117, 160, 167	0
20	CT	99/106 (93%)	1.38	23 (23%)	2	1	66, 107, 151, 163	0
21	AU	25/27 (92%)	2.31	17 (68%)	0	0	84, 120, 146, 156	0
21	CU	25/27 (92%)	2.46	14 (56%)	0	0	91, 135, 171, 188	0
22	AV	77/78 (98%)	1.64	23 (29%)	1	1	65, 141, 179, 199	0
22	AY	77/78 (98%)	1.52	19 (24%)	2	1	90, 140, 185, 189	0
22	CV	77/78 (98%)	2.20	42 (54%)	0	0	94, 175, 196, 200	0
22	CY	77/78 (98%)	2.04	36 (46%)	0	0	138, 176, 197, 200	0
23	AW	78/78 (100%)	1.73	27 (34%)	1	0	70, 173, 191, 199	0
23	CW	78/78 (100%)	2.36	46 (58%)	0	0	99, 188, 200, 200	0
24	AX	12/24 (50%)	2.06	7 (58%)	0	0	59, 88, 157, 160	0
24	CX	12/24 (50%)	2.88	9 (75%)	0	0	92, 163, 185, 185	0
25	B0	84/85 (98%)	1.71	28 (33%)	1	0	39, 66, 124, 167	0
25	D0	84/85 (98%)	1.82	29 (34%)	1	0	71, 105, 146, 165	0
26	B1	94/98 (95%)	0.85	9 (9%)	13	7	33, 61, 114, 141	0
26	D1	94/98 (95%)	0.66	9 (9%)	13	7	43, 74, 127, 149	0
27	B2	71/72 (98%)	0.48	4 (5%)	30	16	41, 70, 122, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
27	D2	71/72 (98%)	0.97	8 (11%) 10 5	57, 97, 139, 178	0
28	B3	60/60 (100%)	1.17	7 (11%) 9 5	42, 63, 108, 167	0
28	D3	60/60 (100%)	1.24	11 (18%) 3 1	65, 109, 149, 175	0
29	B4	58/71 (81%)	2.17	30 (51%) 0 0	96, 144, 171, 187	0
29	D4	58/71 (81%)	1.56	18 (31%) 1 1	86, 165, 194, 200	0
30	B5	56/60 (93%)	0.64	4 (7%) 22 12	25, 63, 126, 148	0
30	D5	56/60 (93%)	0.86	7 (12%) 8 5	48, 80, 128, 146	0
31	B6	50/54 (92%)	1.83	18 (36%) 1 0	99, 140, 171, 180	0
31	D6	50/54 (92%)	1.89	19 (38%) 1 0	113, 150, 174, 191	0
32	B7	48/49 (97%)	0.31	2 (4%) 40 22	23, 42, 83, 129	0
32	D7	48/49 (97%)	0.35	3 (6%) 26 14	35, 54, 98, 131	0
33	B8	64/65 (98%)	1.42	17 (26%) 1 1	30, 61, 107, 123	0
33	D8	64/65 (98%)	1.51	21 (32%) 1 0	46, 88, 134, 177	0
34	B9	37/37 (100%)	2.40	23 (62%) 0 0	91, 136, 157, 159	0
34	D9	37/37 (100%)	2.87	25 (67%) 0 0	126, 149, 172, 183	0
35	BA	2848/2915 (97%)	0.72	281 (9%) 13 7	20, 56, 184, 200	0
35	DA	2848/2915 (97%)	0.88	327 (11%) 9 5	39, 82, 186, 200	0
36	BB	119/122 (97%)	2.29	72 (60%) 0 0	52, 81, 149, 178	0
36	DB	119/122 (97%)	2.22	71 (59%) 0 0	102, 151, 183, 195	0
37	BC	120/229 (52%)	1.66	29 (24%) 2 1	119, 168, 189, 200	0
37	DC	120/229 (52%)	1.42	27 (22%) 2 1	132, 170, 187, 199	0
38	BD	272/276 (98%)	0.58	17 (6%) 26 14	24, 55, 93, 150	0
38	DD	272/276 (98%)	0.68	20 (7%) 20 11	37, 73, 110, 144	0
39	BE	205/206 (99%)	0.78	25 (12%) 8 5	20, 62, 129, 165	0
39	DE	205/206 (99%)	0.90	23 (11%) 10 5	41, 82, 136, 159	0
40	BF	208/210 (99%)	0.76	18 (8%) 16 9	22, 63, 144, 195	0
40	DF	208/210 (99%)	0.80	17 (8%) 17 10	38, 90, 145, 184	0
41	BG	181/182 (99%)	1.78	61 (33%) 1 0	51, 103, 155, 182	0
41	DG	181/182 (99%)	1.44	43 (23%) 2 1	102, 141, 167, 183	0
42	BH	165/180 (91%)	1.28	30 (18%) 3 1	49, 86, 136, 174	0
42	DH	165/180 (91%)	1.52	47 (28%) 1 1	102, 139, 167, 182	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
43	BI	146/148 (98%)	1.96	57 (39%) 1 0	55, 147, 187, 200	0
43	DI	146/148 (98%)	2.05	61 (41%) 0 0	59, 139, 183, 200	0
44	BJ	0/173	-	-	-	-
44	DJ	0/173	-	-	-	-
45	BN	139/140 (99%)	0.84	12 (8%) 16 9	36, 64, 118, 147	0
45	DN	139/140 (99%)	1.05	18 (12%) 7 4	69, 104, 136, 155	0
46	BO	122/122 (100%)	0.41	4 (3%) 49 29	33, 60, 94, 116	0
46	DO	122/122 (100%)	0.74	6 (4%) 35 18	54, 83, 110, 141	0
47	BP	146/150 (97%)	1.58	48 (32%) 1 0	28, 74, 128, 189	0
47	DP	146/150 (97%)	1.46	36 (24%) 2 1	41, 98, 144, 173	0
48	BQ	141/141 (100%)	1.23	28 (19%) 3 1	38, 67, 109, 143	0
48	DQ	141/141 (100%)	1.48	37 (26%) 1 1	63, 113, 153, 178	0
49	BR	117/118 (99%)	0.68	10 (8%) 16 9	36, 62, 103, 136	0
49	DR	117/118 (99%)	0.88	16 (13%) 6 4	42, 76, 118, 151	0
50	BS	99/112 (88%)	2.39	58 (58%) 0 0	52, 95, 141, 160	0
50	DS	99/112 (88%)	2.18	50 (50%) 0 0	101, 137, 163, 186	0
51	BT	136/146 (93%)	0.82	14 (10%) 12 6	47, 78, 140, 181	0
51	DT	136/146 (93%)	1.03	18 (13%) 7 4	58, 92, 151, 176	0
52	BU	117/118 (99%)	0.68	7 (5%) 27 15	27, 53, 102, 144	0
52	DU	117/118 (99%)	1.13	18 (15%) 5 2	46, 97, 137, 163	0
53	BV	101/101 (100%)	0.78	9 (8%) 15 8	24, 72, 124, 168	0
53	DV	101/101 (100%)	1.17	16 (15%) 5 2	53, 116, 146, 171	0
54	BW	113/113 (100%)	0.36	3 (2%) 56 35	28, 52, 105, 180	0
54	DW	113/113 (100%)	0.56	3 (2%) 56 35	49, 71, 119, 165	0
55	BX	93/96 (96%)	0.49	4 (4%) 40 22	29, 63, 100, 141	0
55	DX	93/96 (96%)	1.00	14 (15%) 5 3	55, 83, 115, 138	0
56	BY	101/110 (91%)	1.56	32 (31%) 1 1	47, 89, 131, 157	0
56	DY	101/110 (91%)	1.56	30 (29%) 1 1	60, 106, 149, 164	0
57	BZ	185/206 (89%)	1.81	70 (37%) 1 0	51, 113, 163, 188	0
57	DZ	185/206 (89%)	1.63	54 (29%) 1 1	99, 144, 171, 189	0
All	All	21266/22572 (94%)	1.21	4370 (20%) 2 1	20, 98, 177, 200	0

All (4370) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
43	BI	88	ILE	15.5
43	DI	72	LEU	14.3
35	BA	277	C	13.0
10	CJ	55	LYS	10.2
56	BY	92	ASN	9.7
2	AB	152	PHE	9.4
43	BI	120	ILE	9.0
35	BA	1913	A	9.0
13	AM	100	GLY	8.3
19	AS	82	GLY	8.1
19	CS	82	GLY	7.8
43	DI	68	LEU	7.8
23	CW	36	C	7.6
49	DR	3	HIS	7.5
2	CB	163	PHE	7.5
51	DT	115	ARG	7.4
9	CI	115	GLY	7.3
20	CT	104	LEU	7.2
12	AL	28	LYS	7.2
19	AS	67	VAL	7.2
25	B0	2	ALA	7.2
19	CS	15	LEU	7.0
4	AD	3	ARG	7.0
7	AG	83	ALA	7.0
1	CA	1289	A	7.0
10	CJ	58	ASP	6.9
50	BS	30	ARG	6.9
1	CA	1130	A	6.9
14	AN	30	ALA	6.8
35	BA	2113	U	6.8
43	BI	130	TYR	6.8
42	BH	44	VAL	6.8
14	AN	31	ARG	6.7
43	BI	87	LYS	6.7
50	BS	32	LEU	6.7
11	CK	51	LYS	6.7
1	AA	1260	C	6.6
10	AJ	58	ASP	6.6
1	AA	78	G	6.6
35	DA	2802	G	6.6
14	AN	2	ALA	6.6
34	D9	21	GLY	6.5
52	DU	91	ASP	6.4

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Mol	Chain	Res	Type	RSRZ
35	BA	1049	C	6.4
52	DU	58	ARG	6.4
20	AT	60	GLU	6.4
56	BY	44	ILE	6.4
47	BP	107	LYS	6.4
12	AL	94	PRO	6.4
2	CB	195	ASP	6.3
9	CI	19	LEU	6.3
56	DY	44	ILE	6.3
13	AM	102	ARG	6.3
35	DA	1913	A	6.3
35	BA	654(E)	G	6.2
21	CU	10	ARG	6.2
35	BA	2112	G	6.2
19	AS	5	LEU	6.2
7	AG	85	TYR	6.2
1	CA	470	C	6.1
35	BA	2119	A	6.1
43	BI	92	VAL	6.1
10	CJ	56	HIS	6.1
13	AM	27	LYS	6.1
35	DA	2110	G	6.1
56	DY	45	VAL	6.1
19	AS	69	HIS	6.1
45	DN	62	VAL	6.1
4	AD	2	GLY	6.1
1	CA	1129	C	6.1
8	CH	1	MET	6.0
56	BY	84	ARG	6.0
13	AM	31	LYS	6.0
22	CY	78	A	6.0
9	CI	106	ALA	6.0
7	AG	33	ASP	5.9
35	BA	1048	A	5.9
5	AE	22	GLY	5.9
9	CI	123	PRO	5.9
1	CA	1124	G	5.9
19	CS	40	ILE	5.9
19	CS	67	VAL	5.9
1	CA	1054	C	5.9
34	D9	20	HIS	5.9
13	CM	102	ARG	5.9

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Mol	Chain	Res	Type	RSRZ
11	AK	129	SER	5.8
57	DZ	120	ILE	5.8
1	AA	1311	G	5.8
13	CM	39	ILE	5.8
57	BZ	176	PRO	5.8
3	CC	189	ALA	5.8
9	AI	41	VAL	5.8
1	CA	526	C	5.8
1	CA	1503	A	5.8
43	DI	65	ALA	5.7
50	DS	73	LEU	5.7
35	BA	654(F)	C	5.7
41	DG	97	ASP	5.7
8	CH	2	LEU	5.7
13	AM	105	THR	5.7
47	BP	27	HIS	5.7
1	CA	92	C	5.6
47	DP	110	TYR	5.6
20	CT	103	GLY	5.6
50	BS	53	SER	5.6
49	DR	2	ARG	5.6
1	AA	98	G	5.6
35	BA	2115	G	5.6
35	DA	1048	A	5.6
40	BF	24	LEU	5.5
19	CS	81	ARG	5.5
57	BZ	184	ALA	5.5
35	BA	2802	G	5.5
13	AM	98	VAL	5.5
20	AT	106	ALA	5.5
8	AH	25	ASP	5.5
16	AP	71	ARG	5.5
1	CA	93	G	5.5
29	B4	17	GLY	5.4
49	BR	3	HIS	5.4
1	AA	346	G	5.4
1	AA	1129	C	5.4
10	AJ	40	LEU	5.4
9	CI	109	VAL	5.4
42	DH	24	VAL	5.4
8	CH	4	ASP	5.4
5	CE	18	ARG	5.4

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Mol	Chain	Res	Type	RSRZ
20	AT	11	SER	5.4
31	D6	42	TRP	5.4
43	DI	78	THR	5.3
2	CB	152	PHE	5.3
19	AS	40	ILE	5.3
9	AI	126	SER	5.3
34	B9	37	GLY	5.3
16	AP	48	TRP	5.3
10	CJ	12	ASP	5.3
3	CC	10	PHE	5.3
43	BI	90	GLY	5.3
1	AA	79	G	5.2
1	CA	1181	G	5.2
10	CJ	54	PHE	5.2
4	CD	161	ASN	5.2
35	BA	278	A	5.2
35	DA	885	C	5.2
10	AJ	59	SER	5.2
4	CD	23	GLY	5.2
14	AN	32	SER	5.2
1	CA	973	G	5.2
25	B0	5	LYS	5.2
43	BI	91	SER	5.2
25	D0	19	LYS	5.1
35	DA	654(N)	G	5.1
1	AA	1286	A	5.1
12	CL	50	SER	5.1
35	DA	654(T)	C	5.1
37	DC	168	LYS	5.1
21	CU	14	TRP	5.1
1	AA	1224	G	5.1
1	AA	1312	G	5.1
22	AV	1	G	5.1
35	DA	2894	G	5.1
37	BC	190	ILE	5.1
12	AL	73	GLU	5.1
57	DZ	117	LEU	5.1
4	AD	32	ALA	5.0
19	CS	5	LEU	5.0
35	BA	2310	A	5.0
35	DA	2314	C	5.0
43	BI	128	LEU	5.0

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Mol	Chain	Res	Type	RSRZ
57	DZ	177	PRO	5.0
34	D9	26	ILE	5.0
13	CM	60	VAL	5.0
38	BD	36	PRO	5.0
1	CA	1026	G	5.0
4	AD	42	GLN	5.0
10	AJ	43	ARG	5.0
1	CA	1388	C	5.0
35	DA	1049	C	5.0
43	DI	79	ILE	5.0
2	CB	85	ALA	5.0
20	AT	14	LYS	5.0
3	AC	161	GLU	5.0
35	BA	2190	G	4.9
50	DS	37	ALA	4.9
1	AA	63	C	4.9
1	AA	347	G	4.9
35	DA	275	G	4.9
3	AC	193	TYR	4.9
50	BS	52	SER	4.9
20	AT	102	GLY	4.9
25	D0	22	GLY	4.9
1	AA	112	G	4.9
1	CA	1220	G	4.9
38	DD	262	ARG	4.9
50	DS	36	TYR	4.9
1	AA	1190	G	4.9
31	B6	42	TRP	4.8
41	DG	2	PRO	4.8
50	BS	45	GLY	4.8
31	B6	54	ILE	4.8
29	B4	3	GLU	4.8
7	CG	2	ALA	4.8
1	AA	64	G	4.8
51	DT	1	MET	4.8
5	AE	23	GLY	4.8
1	AA	218	C	4.8
1	CA	1286	A	4.8
43	BI	94	ALA	4.8
34	D9	2	LYS	4.8
35	BA	11	G	4.8
37	DC	44	VAL	4.8

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Mol	Chain	Res	Type	RSRZ
7	AG	86	GLN	4.8
2	AB	144	ARG	4.8
17	CQ	101	ARG	4.8
43	DI	16	GLY	4.7
1	AA	1141	C	4.7
43	BI	97	ILE	4.7
1	AA	220	G	4.7
40	BF	156	LEU	4.7
38	BD	244	ARG	4.7
35	BA	2114	A	4.7
3	AC	87	LEU	4.7
25	B0	19	LYS	4.7
1	AA	1034	G	4.7
23	AW	1	G	4.7
37	BC	172	ILE	4.7
41	BG	128	ARG	4.7
38	BD	35	LYS	4.7
52	BU	58	ARG	4.7
7	AG	26	PHE	4.7
1	AA	141	A	4.7
35	DA	654(U)	A	4.7
8	CH	3	THR	4.6
39	DE	69	LYS	4.6
40	BF	23	ASP	4.6
1	CA	530	G	4.6
23	CW	19	G	4.6
34	D9	33	LYS	4.6
4	CD	80	GLU	4.6
35	DA	362	U	4.6
9	AI	82	ALA	4.6
9	AI	109	VAL	4.6
14	CN	30	ALA	4.6
36	BB	4	C	4.6
33	B8	35	GLN	4.6
40	DF	131	GLY	4.6
1	AA	1503	A	4.6
1	AA	77	G	4.6
1	AA	381	C	4.6
1	CA	1310	G	4.6
43	DI	109	ILE	4.6
19	AS	53	ASN	4.6
50	DS	51	ALA	4.6

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Mol	Chain	Res	Type	RSRZ
1	CA	982	U	4.5
33	D8	40	GLU	4.5
1	AA	439	A	4.5
1	AA	532	A	4.5
3	AC	3	ASN	4.5
22	CY	77	C	4.5
36	BB	28	C	4.5
1	AA	1124	G	4.5
35	BA	654(H)	G	4.5
35	DA	2795	G	4.5
10	CJ	74	ILE	4.5
12	CL	82	VAL	4.5
24	CX	22	A	4.5
35	DA	2790	A	4.5
5	CE	27	ARG	4.5
43	DI	77	LEU	4.5
25	D0	56	ASP	4.5
43	BI	143	SER	4.5
13	AM	106	ASN	4.5
41	BG	178	PHE	4.5
50	BS	12	PHE	4.5
2	CB	214	ILE	4.5
13	AM	56	LEU	4.5
12	AL	45	PRO	4.5
24	CX	15	A	4.5
35	BA	654(K)	C	4.5
57	BZ	185	GLU	4.5
29	B4	1	MET	4.5
57	DZ	176	PRO	4.5
13	AM	8	GLU	4.5
23	AW	68	A	4.5
35	BA	896	A	4.5
12	AL	72	GLY	4.4
35	BA	2313	C	4.4
35	DA	2313	C	4.4
20	CT	75	ASN	4.4
50	DS	93	LYS	4.4
57	BZ	143	GLY	4.4
12	AL	52	LEU	4.4
27	D2	44	LEU	4.4
1	AA	366	C	4.4
1	CA	1260	C	4.4

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Mol	Chain	Res	Type	RSRZ
36	BB	109	C	4.4
33	B8	64	TYR	4.4
20	CT	106	ALA	4.4
25	D0	2	ALA	4.4
42	BH	156	ALA	4.4
1	AA	485	G	4.4
9	CI	103	THR	4.4
21	CU	6	ARG	4.4
38	BD	262	ARG	4.4
35	DA	900	A	4.4
1	AA	442	C	4.4
3	CC	194	GLY	4.4
16	AP	68	ASP	4.4
39	BE	61	ARG	4.4
1	AA	97	G	4.4
22	CV	1	G	4.4
35	DA	508	G	4.4
35	DA	859	G	4.4
50	BS	16	ASN	4.4
19	CS	80	TYR	4.4
13	AM	101	GLN	4.4
22	CY	37	A	4.4
50	BS	48	LEU	4.4
1	AA	455	C	4.4
3	AC	4	LYS	4.4
18	AR	68	LYS	4.4
36	BB	5	C	4.4
3	AC	192	THR	4.4
8	CH	99	GLU	4.3
1	CA	933	G	4.3
7	CG	42	ILE	4.3
9	CI	127	LYS	4.3
13	CM	120	LYS	4.3
35	DA	1541	G	4.3
49	BR	91	GLN	4.3
47	DP	33	ARG	4.3
35	DA	2803	C	4.3
43	DI	108	THR	4.3
37	BC	193	PHE	4.3
12	AL	95	GLY	4.3
19	CS	71	LEU	4.3
1	CA	1131	G	4.3

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Mol	Chain	Res	Type	RSRZ
1	CA	1311	G	4.3
36	BB	63	G	4.3
24	CX	18	A	4.3
43	DI	121	LYS	4.3
56	DY	55	TYR	4.3
42	BH	171	LEU	4.3
14	AN	29	ARG	4.3
43	DI	145	VAL	4.3
43	BI	89	TYR	4.3
49	BR	2	ARG	4.3
26	B1	27	GLU	4.3
35	BA	654(D)	G	4.3
1	AA	495	A	4.3
1	AA	1252	A	4.3
1	AA	979	C	4.3
10	AJ	55	LYS	4.3
9	CI	59	PHE	4.3
25	B0	56	ASP	4.3
50	BS	31	SER	4.3
7	AG	90	GLU	4.3
19	CS	11	VAL	4.3
1	CA	1190	G	4.2
1	CA	1390	U	4.2
29	D4	1	MET	4.2
50	BS	29	PHE	4.2
1	AA	989	C	4.2
1	CA	1039	C	4.2
42	DH	36	PRO	4.2
50	DS	26	LEU	4.2
49	DR	8	ARG	4.2
3	AC	71	ALA	4.2
12	AL	26	ALA	4.2
43	DI	71	ILE	4.2
14	AN	15	LYS	4.2
1	AA	173	U	4.2
1	CA	1020	U	4.2
1	CA	977	A	4.2
9	AI	115	GLY	4.2
35	DA	2892	A	4.2
37	BC	177	GLY	4.2
41	BG	129	GLY	4.2
3	AC	76	VAL	4.2

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Mol	Chain	Res	Type	RSRZ
42	DH	170	ARG	4.2
10	AJ	54	PHE	4.2
41	BG	46	ALA	4.2
10	CJ	34	VAL	4.2
42	DH	44	VAL	4.2
35	BA	2799	C	4.2
36	DB	3	C	4.2
57	DZ	118	GLN	4.2
1	AA	1304	G	4.2
35	BA	1541	G	4.2
35	BA	2795	G	4.2
13	CM	119	GLY	4.2
9	AI	70	LYS	4.2
33	D8	64	TYR	4.2
34	B9	3	VAL	4.2
4	CD	42	GLN	4.2
34	B9	10	ILE	4.2
41	BG	88	ILE	4.2
1	AA	1280	A	4.2
1	CA	913	A	4.2
19	CS	76	PRO	4.2
1	AA	470	C	4.2
1	AA	1054	C	4.2
20	CT	14	LYS	4.2
1	AA	438	G	4.2
3	AC	184	TYR	4.2
11	CK	50	TYR	4.2
21	AU	6	ARG	4.2
37	BC	44	VAL	4.1
38	DD	237	GLU	4.1
37	BC	219	MET	4.1
43	DI	146	ALA	4.1
35	DA	155	U	4.1
43	DI	111	PRO	4.1
57	DZ	156	LYS	4.1
14	AN	28	GLY	4.1
20	AT	80	ARG	4.1
29	B4	24	THR	4.1
50	DS	94	TYR	4.1
9	CI	110	GLU	4.1
1	AA	490	G	4.1
35	BA	883	G	4.1

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Mol	Chain	Res	Type	RSRZ
35	DA	654(E)	G	4.1
14	CN	2	ALA	4.1
50	DS	52	SER	4.1
12	AL	61	THR	4.1
23	CW	8	U	4.1
37	DC	42	VAL	4.1
53	DV	37	VAL	4.1
10	CJ	63	PHE	4.1
2	AB	222	ILE	4.1
35	BA	2346	A	4.1
1	CA	980	C	4.1
36	BB	49	C	4.1
1	AA	1033	G	4.1
25	D0	21	LEU	4.1
35	BA	508	G	4.1
42	DH	71	LEU	4.1
50	BS	47	THR	4.1
48	DQ	103	MET	4.1
41	BG	169	ALA	4.1
35	BA	654(T)	C	4.1
36	DB	4	C	4.1
17	AQ	43	LEU	4.1
3	CC	201	TYR	4.1
21	CU	8	THR	4.1
1	AA	446	G	4.1
7	CG	39	ALA	4.1
47	DP	41	ARG	4.1
7	AG	81	GLY	4.1
25	D0	13	GLY	4.1
1	CA	1442(B)	A	4.0
2	CB	41	ILE	4.0
13	CM	84	ILE	4.0
39	DE	73	GLU	4.0
51	DT	126	ALA	4.0
47	DP	81	GLN	4.0
19	AS	76	PRO	4.0
41	BG	176	LEU	4.0
22	CV	21	U	4.0
35	DA	2345	G	4.0
49	DR	69	ASP	4.0
9	AI	7	THR	4.0
42	DH	69	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
48	DQ	136	ALA	4.0
1	AA	1363	C	4.0
1	CA	1234	C	4.0
35	DA	654(I)	C	4.0
13	CM	97	PRO	4.0
40	BF	131	GLY	4.0
42	DH	35	VAL	4.0
14	CN	31	ARG	4.0
23	CW	18	U	4.0
35	BA	1026	U	4.0
13	AM	87	TYR	4.0
2	CB	161	ALA	4.0
1	AA	963	G	4.0
1	CA	927	G	4.0
13	CM	100	GLY	4.0
41	BG	127	GLY	4.0
50	BS	90	GLY	4.0
50	DS	45	GLY	4.0
3	AC	152	ILE	4.0
16	AP	7	ALA	4.0
37	BC	171	ALA	4.0
53	DV	12	TYR	4.0
35	BA	2344	U	4.0
42	DH	64	LEU	4.0
42	DH	67	LEU	4.0
1	AA	1283	G	4.0
8	AH	30	ARG	4.0
22	CV	33	G	4.0
9	CI	18	PHE	4.0
1	CA	456	C	4.0
19	AS	4	SER	4.0
36	DB	6	C	4.0
10	AJ	71	LEU	4.0
37	DC	4	HIS	3.9
25	B0	4	LYS	3.9
4	CD	21	LEU	3.9
1	AA	1387	G	3.9
1	CA	1021	G	3.9
1	CA	1117	G	3.9
35	DA	272(B)	G	3.9
1	CA	983	A	3.9
24	CX	13	A	3.9

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Mol	Chain	Res	Type	RSRZ
35	DA	654	A	3.9
1	CA	1189	C	3.9
1	CA	1389	C	3.9
23	CW	6	C	3.9
39	BE	76	ARG	3.9
43	BI	16	GLY	3.9
2	AB	215	LEU	3.9
41	DG	19	LEU	3.9
33	D8	63	PRO	3.9
34	D9	37	GLY	3.9
39	BE	88	GLY	3.9
43	BI	84	GLY	3.9
1	CA	969	A	3.9
10	AJ	23	ILE	3.9
24	AX	15	A	3.9
35	BA	352	G	3.9
50	DS	39	ILE	3.9
1	AA	92	C	3.9
1	CA	979	C	3.9
56	DY	47	LYS	3.9
11	CK	65	ALA	3.9
43	DI	140	LEU	3.9
31	D6	39	TYR	3.9
3	AC	19	GLU	3.9
40	DF	175	THR	3.9
42	DH	141	VAL	3.9
51	DT	3	ARG	3.9
25	B0	17	GLN	3.9
37	DC	190	ILE	3.9
37	DC	3	LYS	3.9
8	AH	2	LEU	3.9
25	D0	7	LEU	3.9
34	B9	22	ARG	3.9
35	BA	654(V)	A	3.9
1	AA	70	G	3.9
1	AA	345	C	3.9
1	CA	727	G	3.9
35	BA	2302	G	3.9
57	BZ	180	VAL	3.9
12	CL	61	THR	3.9
53	BV	36	PRO	3.9
16	AP	29	ASP	3.9

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Mol	Chain	Res	Type	RSRZ
47	BP	76	LYS	3.9
3	AC	52	LEU	3.9
3	CC	33	LEU	3.9
43	BI	136	VAL	3.8
9	CI	114	TYR	3.8
9	CI	125	TYR	3.8
11	CK	117	ASN	3.8
35	DA	363(F)	A	3.8
35	DA	896	A	3.8
35	DA	654(M)	C	3.8
35	BA	2172	U	3.8
47	BP	7	ARG	3.8
37	BC	223	VAL	3.8
3	CC	124	ILE	3.8
35	BA	654(G)	C	3.8
1	AA	945	G	3.8
1	CA	1222	G	3.8
22	CV	47	G	3.8
35	BA	2121	G	3.8
35	DA	2120	G	3.8
5	CE	19	MET	3.8
12	AL	77	LEU	3.8
34	B9	5	ALA	3.8
2	CB	81	VAL	3.8
41	BG	28	VAL	3.8
1	CA	1285	A	3.8
35	BA	2170	A	3.8
36	BB	13	A	3.8
35	BA	271(K)	U	3.8
1	CA	1071	C	3.8
35	DA	2179	C	3.8
35	DA	2295	C	3.8
7	AG	34	GLY	3.8
12	CL	95	GLY	3.8
41	BG	87	PRO	3.8
43	DI	66	GLU	3.8
9	CI	40	LEU	3.8
33	B8	48	PHE	3.8
50	DS	30	ARG	3.8
57	DZ	104	PHE	3.8
23	CW	47	G	3.8
35	DA	654(A)	G	3.8

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Mol	Chain	Res	Type	RSRZ
35	DA	919	G	3.8
36	DB	72	G	3.8
57	BZ	118	GLN	3.8
34	D9	23	VAL	3.8
47	DP	27	HIS	3.8
28	D3	1	MET	3.8
46	BO	1	MET	3.8
3	AC	182	ILE	3.8
31	D6	54	ILE	3.8
7	AG	82	GLY	3.8
38	BD	263	ARG	3.8
41	BG	2	PRO	3.8
41	BG	136	ARG	3.8
1	AA	1151	A	3.8
35	BA	1046	A	3.8
35	BA	2311	A	3.8
35	DA	2135	A	3.8
31	D6	13	CYS	3.8
9	AI	13	ALA	3.7
36	DB	5	C	3.7
29	B4	2	LYS	3.7
19	CS	69	HIS	3.7
1	CA	947	G	3.7
1	CA	1084	G	3.7
35	DA	2112	G	3.7
41	BG	80	PHE	3.7
46	DO	68	GLU	3.7
50	DS	92	TYR	3.7
11	AK	65	ALA	3.7
1	AA	367	U	3.7
19	AS	11	VAL	3.7
23	AW	8	U	3.7
36	BB	40	U	3.7
1	CA	572	A	3.7
35	BA	2117	A	3.7
34	D9	32	HIS	3.7
11	CK	129	SER	3.7
13	CM	96	LEU	3.7
26	B1	85	LEU	3.7
7	CG	26	PHE	3.7
47	BP	122	PRO	3.7
13	AM	21	TYR	3.7

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Mol	Chain	Res	Type	RSRZ
2	CB	27	LYS	3.7
1	AA	66	G	3.7
1	AA	447	G	3.7
1	AA	944	G	3.7
1	CA	70	G	3.7
1	CA	1221	G	3.7
22	CY	51	G	3.7
23	AW	19	G	3.7
23	CW	1	G	3.7
35	BA	2120	G	3.7
37	BC	30	VAL	3.7
22	CV	13	U	3.7
22	CY	16	U	3.7
23	CW	35	U	3.7
43	DI	138	ILE	3.7
35	DA	2476	A	3.7
49	DR	4	LEU	3.7
2	AB	195	ASP	3.7
2	CB	99	GLY	3.7
5	CE	70	PRO	3.7
14	CN	34	TYR	3.7
18	CR	68	LYS	3.7
23	CW	74	C	3.7
50	DS	91	PRO	3.7
47	DP	107	LYS	3.7
30	D5	2	ALA	3.7
57	DZ	173	ALA	3.7
12	AL	43	VAL	3.7
13	AM	7	VAL	3.7
25	D0	39	ARG	3.7
42	BH	139	GLN	3.7
50	DS	95	HIS	3.7
43	DI	4	ILE	3.7
43	DI	97	ILE	3.7
1	AA	93	G	3.7
3	AC	101	LEU	3.7
35	DA	920	G	3.7
36	DB	16	G	3.7
4	CD	69	GLY	3.7
48	DQ	22	LYS	3.7
1	CA	952	U	3.7
6	AF	50	TYR	3.7

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Mol	Chain	Res	Type	RSRZ
35	DA	654(V)	A	3.7
1	AA	153	C	3.7
1	AA	342	C	3.7
1	CA	352	C	3.7
9	AI	128	ARG	3.7
47	DP	70	GLN	3.7
10	CJ	62	HIS	3.7
20	AT	72	LEU	3.7
43	BI	72	LEU	3.7
2	AB	27	LYS	3.7
3	AC	2	GLY	3.7
12	CL	32	PHE	3.7
33	D8	48	PHE	3.7
57	DZ	52	SER	3.6
1	CA	413	G	3.6
1	CA	971	G	3.6
9	CI	28	VAL	3.6
48	BQ	25	ASP	3.6
1	CA	1235	U	3.6
1	CA	1393	U	3.6
4	CD	122	ARG	3.6
13	CM	114	ARG	3.6
35	BA	1509(A)	A	3.6
12	CL	28	LYS	3.6
1	AA	443	C	3.6
1	CA	1217	C	3.6
29	B4	49	PHE	3.6
34	D9	14	CYS	3.6
12	CL	94	PRO	3.6
3	AC	100	ALA	3.6
12	AL	53	ARG	3.6
31	D6	37	ARG	3.6
45	DN	46	VAL	3.6
51	DT	11	GLU	3.6
45	BN	3	THR	3.6
19	AS	16	LEU	3.6
34	B9	17	ILE	3.6
50	BS	58	LEU	3.6
1	CA	84	U	3.6
1	CA	1345	U	3.6
35	DA	2122	U	3.6
1	AA	46	G	3.6

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Mol	Chain	Res	Type	RSRZ
1	CA	79	G	3.6
1	CA	993	G	3.6
23	AW	28	G	3.6
50	DS	87	PHE	3.6
25	B0	28	GLY	3.6
36	DB	78	A	3.6
1	AA	433	C	3.6
1	CA	1402	C	3.6
2	AB	77	ALA	3.6
35	BA	2314	C	3.6
41	BG	163	ALA	3.6
19	AS	80	TYR	3.6
39	DE	151	TYR	3.6
4	AD	120	LEU	3.6
4	CD	19	LEU	3.6
18	AR	76	LEU	3.6
7	AG	43	PHE	3.6
10	AJ	66	ARG	3.6
14	AN	14	PRO	3.6
56	BY	45	VAL	3.6
1	AA	973	G	3.6
1	CA	1415	G	3.6
35	DA	75	G	3.6
7	AG	89	MET	3.6
7	CG	151	TYR	3.6
8	CH	94	TYR	3.6
11	AK	51	LYS	3.6
14	AN	6	LEU	3.6
22	CY	39	A	3.6
35	BA	2602	A	3.6
56	DY	61	ILE	3.6
57	DZ	163	LEU	3.6
1	AA	1259	C	3.6
1	CA	72	C	3.6
39	BE	127	ASP	3.6
2	CB	57	PHE	3.6
14	AN	16	PHE	3.6
34	B9	20	HIS	3.6
48	DQ	104	PHE	3.6
20	CT	80	ARG	3.6
33	D8	46	ARG	3.6
38	DD	240	ALA	3.6

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Mol	Chain	Res	Type	RSRZ
22	AV	13	U	3.6
21	CU	18	TYR	3.6
1	AA	441	A	3.5
1	CA	97	G	3.5
1	CA	873	A	3.5
1	CA	1398	A	3.5
22	CV	55	G	3.5
31	B6	37	ARG	3.5
34	B9	35	ARG	3.5
35	BA	2298	A	3.5
35	BA	2629	A	3.5
36	DB	18	G	3.5
36	DB	66	A	3.5
25	B0	6	GLY	3.5
1	AA	1223	C	3.5
1	AA	1322	C	3.5
35	BA	2402	C	3.5
13	AM	10	PRO	3.5
29	D4	50	VAL	3.5
39	BE	53	PRO	3.5
42	DH	43	VAL	3.5
50	BS	91	PRO	3.5
8	CH	98	LYS	3.5
50	DS	99	LYS	3.5
33	D8	62	LEU	3.5
52	DU	60	LEU	3.5
56	BY	5	MET	3.5
43	BI	138	ILE	3.5
9	CI	4	TYR	3.5
4	AD	71	SER	3.5
4	AD	115	ARG	3.5
51	DT	67	SER	3.5
47	BP	68	GLN	3.5
42	BH	45	VAL	3.5
2	CB	77	ALA	3.5
3	AC	53	ALA	3.5
50	BS	99	LYS	3.5
50	DS	55	ALA	3.5
1	AA	946	A	3.5
1	AA	1201	A	3.5
1	AA	1285	A	3.5
1	CA	872	A	3.5

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Mol	Chain	Res	Type	RSRZ
23	CW	61	A	3.5
35	BA	1494	A	3.5
1	AA	1305	G	3.5
1	CA	1233	G	3.5
1	AA	980	C	3.5
1	CA	525	C	3.5
4	AD	24	GLU	3.5
22	CY	76	C	3.5
34	D9	17	ILE	3.5
35	DA	654(F)	C	3.5
36	BB	47	C	3.5
38	BD	237	GLU	3.5
13	CM	21	TYR	3.5
31	B6	39	TYR	3.5
2	AB	64	ARG	3.5
34	D9	19	ARG	3.5
43	BI	86	THR	3.5
3	AC	26	LYS	3.5
9	AI	11	LYS	3.5
9	AI	14	VAL	3.5
42	DH	169	VAL	3.5
45	DN	37	LYS	3.5
9	CI	43	ALA	3.5
9	CI	61	ALA	3.5
19	AS	71	LEU	3.5
53	DV	36	PRO	3.5
13	AM	84	ILE	3.5
17	CQ	96	GLU	3.5
1	CA	994	A	3.5
50	BS	36	TYR	3.5
1	AA	456	C	3.5
35	BA	915	C	3.5
56	DY	60	PHE	3.5
1	AA	1220	G	3.5
1	AA	1310	G	3.5
3	CC	177	THR	3.5
22	CV	10	G	3.5
35	BA	2162	G	3.5
35	DA	654(O)	G	3.5
35	DA	932	G	3.5
36	BB	61	G	3.5
19	CS	4	SER	3.5

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Mol	Chain	Res	Type	RSRZ
41	DG	70	VAL	3.5
50	BS	51	ALA	3.5
13	CM	56	LEU	3.5
39	DE	63	LEU	3.5
51	BT	105	LEU	3.5
11	AK	42	TRP	3.5
29	B4	22	ILE	3.5
9	AI	42	ARG	3.5
19	AS	52	TYR	3.5
13	AM	13	LYS	3.5
20	AT	9	ASN	3.5
37	BC	169	THR	3.5
38	DD	40	THR	3.5
1	CA	1188	A	3.5
35	BA	1542	A	3.5
42	BH	52	VAL	3.5
31	D6	46	HIS	3.5
7	AG	42	ILE	3.5
10	CJ	38	ILE	3.5
1	AA	167	G	3.5
34	D9	18	ARG	3.5
21	CU	16	GLY	3.4
47	DP	34	GLY	3.4
57	BZ	147	GLY	3.4
12	CL	7	ILE	3.4
34	D9	22	ARG	3.4
1	AA	408	A	3.4
35	DA	654(J)	A	3.4
1	CA	972	C	3.4
12	AL	114	LYS	3.4
35	BA	2342	C	3.4
35	DA	897	C	3.4
36	BB	27	C	3.4
39	BE	67	PHE	3.4
29	B4	32	TYR	3.4
1	AA	168	G	3.4
1	CA	1290	G	3.4
35	BA	156	U	3.4
35	BA	654(A)	G	3.4
35	BA	1047	G	3.4
42	DH	17	VAL	3.4
50	BS	46	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
12	AL	93	LEU	3.4
41	BG	130	ASN	3.4
50	DS	104	GLY	3.4
9	CI	7	THR	3.4
7	CG	86	GLN	3.4
10	AJ	56	HIS	3.4
15	CO	50	HIS	3.4
21	AU	24	ARG	3.4
34	D9	34	GLN	3.4
47	DP	68	GLN	3.4
52	DU	64	ARG	3.4
37	DC	2	PRO	3.4
21	CU	25	LYS	3.4
41	BG	150	ASP	3.4
15	CO	15	PHE	3.4
57	BZ	97	GLU	3.4
1	CA	439	A	3.4
22	AY	78	A	3.4
52	DU	76	TYR	3.4
42	BH	87	LEU	3.4
1	AA	71	C	3.4
1	CA	458	C	3.4
35	DA	2294	C	3.4
9	AI	15	ALA	3.4
19	AS	66	MET	3.4
23	AW	13	U	3.4
31	D6	26	ASN	3.4
28	B3	43	ILE	3.4
57	BZ	120	ILE	3.4
31	D6	38	LYS	3.4
1	AA	493	G	3.4
22	CV	69	G	3.4
35	BA	272(B)	G	3.4
35	BA	654(L)	G	3.4
35	DA	11	G	3.4
35	DA	864	G	3.4
36	BB	81	G	3.4
50	BS	41	ASP	3.4
20	AT	104	LEU	3.4
51	BT	115	ARG	3.4
1	AA	185	A	3.4
1	CA	532	A	3.4

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Mol	Chain	Res	Type	RSRZ
24	CX	21	A	3.4
7	AG	148	ASN	3.4
16	CP	13	HIS	3.4
57	DZ	121	HIS	3.4
8	CH	101	PRO	3.4
1	AA	454	C	3.4
1	CA	1214	C	3.4
35	BA	1053	C	3.4
35	DA	1909	C	3.4
1	CA	83	U	3.4
1	CA	1281	U	3.4
33	D8	34	TRP	3.4
41	DG	29	TRP	3.4
3	AC	198	VAL	3.4
19	AS	41	VAL	3.4
19	CS	41	VAL	3.4
25	D0	44	ARG	3.4
1	AA	630	G	3.4
1	CA	490	G	3.4
1	CA	587	G	3.4
1	CA	1271	G	3.4
35	BA	1740	G	3.4
36	BB	56	G	3.4
37	DC	174	ALA	3.4
4	AD	70	ILE	3.4
12	CL	91	LYS	3.4
33	D8	29	LYS	3.4
34	B9	31	LYS	3.4
43	DI	118	LYS	3.4
47	BP	39	LYS	3.4
34	D9	36	GLN	3.4
45	DN	63	THR	3.4
1	AA	1239	A	3.3
35	DA	1045	A	3.3
1	AA	219	C	3.3
2	CB	164	VAL	3.3
3	AC	91	LEU	3.3
4	AD	21	LEU	3.3
4	CD	96	LEU	3.3
19	AS	81	ARG	3.3
25	D0	25	ARG	3.3
35	BA	2136	C	3.3

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Mol	Chain	Res	Type	RSRZ
40	DF	84	VAL	3.3
51	DT	105	LEU	3.3
1	AA	619	U	3.3
4	CD	9	CYS	3.3
56	DY	58	GLY	3.3
10	CJ	68	HIS	3.3
53	DV	50	PRO	3.3
1	AA	102	G	3.3
1	CA	1283	G	3.3
35	BA	2299	G	3.3
35	BA	2304	G	3.3
35	BA	2339	G	3.3
35	DA	2318	G	3.3
29	D4	49	PHE	3.3
34	D9	35	ARG	3.3
4	CD	17	VAL	3.3
10	CJ	40	LEU	3.3
13	AM	53	VAL	3.3
21	AU	3	LYS	3.3
35	DA	2134	A	3.3
38	BD	12	SER	3.3
4	AD	23	GLY	3.3
47	DP	67	MET	3.3
1	AA	65	U	3.3
1	CA	1040	U	3.3
1	CA	1056	U	3.3
35	DA	654(B)	C	3.3
36	DB	27	C	3.3
33	D8	2	PRO	3.3
19	AS	33	THR	3.3
13	AM	90	LEU	3.3
33	B8	32	LEU	3.3
48	BQ	79	LEU	3.3
8	AH	61	VAL	3.3
13	CM	53	VAL	3.3
1	AA	68	G	3.3
35	DA	2191	G	3.3
19	AS	68	GLY	3.3
2	CB	92	TYR	3.3
1	AA	1261	A	3.3
22	CV	61	A	3.3
23	CW	68	A	3.3

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Mol	Chain	Res	Type	RSRZ
35	BA	1495	A	3.3
22	CV	62	U	3.3
35	BA	1534	U	3.3
48	BQ	57	HIS	3.3
1	CA	985	C	3.3
9	AI	59	PHE	3.3
35	DA	654(R)	C	3.3
36	DB	109	C	3.3
53	DV	20	LEU	3.3
43	DI	15	VAL	3.3
13	AM	30	ALA	3.3
13	CM	69	GLU	3.3
20	AT	55	ILE	3.3
20	AT	100	ILE	3.3
39	BE	77	ILE	3.3
43	DI	120	ILE	3.3
50	BS	40	ILE	3.3
48	BQ	19	GLY	3.3
21	AU	21	TYR	3.3
55	DX	69	TYR	3.3
50	DS	88	ASP	3.3
1	CA	1068	G	3.3
8	CH	10	LEU	3.3
22	CV	54	G	3.3
22	CV	65	G	3.3
35	BA	2382	G	3.3
35	BA	2618	G	3.3
35	DA	2893	G	3.3
36	BB	16	G	3.3
49	BR	10	LEU	3.3
50	BS	101	LEU	3.3
57	DZ	170	THR	3.3
3	CC	26	LYS	3.3
3	CC	68	VAL	3.3
12	CL	83	VAL	3.3
16	AP	27	LYS	3.3
25	B0	49	LYS	3.3
25	D0	4	LYS	3.3
31	B6	53	LYS	3.3
37	BC	168	LYS	3.3
1	AA	1333	A	3.3
1	CA	733	A	3.3

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Mol	Chain	Res	Type	RSRZ
1	CA	1339	A	3.3
1	CA	1406	U	3.3
36	BB	26	A	3.3
1	AA	488	C	3.3
1	AA	615	C	3.3
1	AA	1096	C	3.3
5	CE	101	ILE	3.3
10	CJ	61	GLU	3.3
48	BQ	20	ALA	3.3
20	AT	103	GLY	3.3
14	AN	34	TYR	3.2
25	D0	41	ARG	3.2
32	D7	23	ARG	3.2
12	AL	50	SER	3.2
37	DC	229	SER	3.2
5	CE	77	PRO	3.2
33	B8	63	PRO	3.2
9	AI	40	LEU	3.2
9	CI	102	LEU	3.2
10	CJ	65	LEU	3.2
14	CN	6	LEU	3.2
39	BE	63	LEU	3.2
43	BI	68	LEU	3.2
57	BZ	148	ASP	3.2
2	AB	110	GLN	3.2
8	AH	78	GLN	3.2
25	B0	3	HIS	3.2
47	BP	51	PHE	3.2
9	AI	108	VAL	3.2
14	CN	59	ALA	3.2
1	AA	80	G	3.2
1	CA	20	U	3.2
1	CA	1086	U	3.2
35	BA	2481	G	3.2
35	DA	1956	U	3.2
47	DP	43	GLY	3.2
1	AA	1130	A	3.2
14	AN	23	ARG	3.2
28	B3	30	ARG	3.2
35	BA	1045	A	3.2
1	AA	624	C	3.2
1	AA	972	C	3.2

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Mol	Chain	Res	Type	RSRZ
8	CH	36	LEU	3.2
35	DA	279	C	3.2
35	DA	2791	C	3.2
43	BI	119	PRO	3.2
57	BZ	159	PRO	3.2
57	DZ	149	SER	3.2
3	CC	195	VAL	3.2
9	CI	41	VAL	3.2
16	AP	13	HIS	3.2
34	B9	34	GLN	3.2
4	AD	158	ILE	3.2
9	AI	81	ILE	3.2
48	DQ	66	ILE	3.2
3	CC	137	ALA	3.2
9	AI	120	ARG	3.2
12	AL	34	ARG	3.2
25	B0	27	GLU	3.2
47	BP	65	ARG	3.2
5	AE	133	TYR	3.2
7	AG	35	LYS	3.2
50	BS	54	LEU	3.2
35	DA	156	U	3.2
45	DN	108	PRO	3.2
1	CA	1061	G	3.2
22	AY	20	G	3.2
22	CY	20	G	3.2
22	CY	66	G	3.2
23	CW	20	G	3.2
23	CW	40	A	3.2
24	AX	22	A	3.2
26	D1	17	SER	3.2
35	BA	1051	G	3.2
35	DA	2155	G	3.2
35	DA	2304	G	3.2
36	BB	52	A	3.2
36	BB	90	A	3.2
36	DB	7	G	3.2
51	BT	31	SER	3.2
1	AA	169	C	3.2
1	AA	217	C	3.2
1	AA	1112	C	3.2
1	AA	1325	C	3.2

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Mol	Chain	Res	Type	RSRZ
1	AA	1388	C	3.2
1	CA	1218	C	3.2
4	CD	31	CYS	3.2
19	AS	12	ASP	3.2
16	AP	1	MET	3.2
41	BG	39	ILE	3.2
20	AT	15	ARG	3.2
52	DU	59	ARG	3.2
38	DD	238	GLY	3.2
12	CL	73	GLU	3.2
7	AG	28	ASN	3.2
41	DG	36	LYS	3.2
43	DI	87	LYS	3.2
10	AJ	53	PRO	3.2
13	AM	54	VAL	3.2
23	CW	57	U	3.2
34	B9	6	SER	3.2
9	AI	27	THR	3.2
12	CL	85	ILE	3.2
19	AS	29	ARG	3.2
19	CS	12	ASP	3.2
25	B0	41	ARG	3.2
1	AA	162	A	3.2
1	AA	621	A	3.2
1	AA	1447	A	3.2
1	CA	792	A	3.2
1	CA	938	A	3.2
1	CA	946	A	3.2
35	DA	2602	A	3.2
48	BQ	136	ALA	3.2
1	AA	166	G	3.2
1	CA	945	G	3.2
1	CA	987	G	3.2
1	CA	1202	G	3.2
9	CI	116	LYS	3.2
23	CW	10	G	3.2
35	DA	883	G	3.2
1	AA	221	C	3.2
22	AY	17	C	3.2
35	BA	884	C	3.2
35	BA	888	C	3.2
35	BA	1509	C	3.2

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Mol	Chain	Res	Type	RSRZ
35	BA	2343	C	3.2
35	DA	867	C	3.2
35	DA	884	C	3.2
36	BB	62	C	3.2
2	AB	155	LEU	3.2
38	DD	83	GLU	3.2
45	BN	139	GLU	3.2
47	BP	117	GLU	3.2
9	AI	4	TYR	3.2
9	AI	86	VAL	3.2
29	B4	21	VAL	3.2
45	DN	44	PRO	3.2
57	BZ	95	PRO	3.2
57	DZ	74	VAL	3.2
4	CD	36	ARG	3.2
14	CN	41	ARG	3.2
28	D3	52	HIS	3.2
7	CG	77	SER	3.2
25	D0	36	ILE	3.2
29	B4	5	ILE	3.2
20	AT	52	ALA	3.2
37	BC	26	ALA	3.2
1	AA	1257	U	3.1
5	CE	92	LYS	3.1
31	B6	38	LYS	3.1
41	BG	47	LYS	3.1
4	CD	2	GLY	3.1
4	AD	135	LEU	3.1
7	AG	156	TRP	3.1
37	DC	186	LEU	3.1
41	DG	34	LEU	3.1
35	BA	2476	A	3.1
2	CB	93	VAL	3.1
50	DS	16	ASN	3.1
1	CA	791	G	3.1
22	AY	76	C	3.1
22	CV	11	C	3.1
23	CW	28	G	3.1
35	BA	2324	C	3.1
35	DA	2573	C	3.1
36	BB	50	G	3.1
2	AB	214	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
14	AN	7	ILE	3.1
19	AS	14	HIS	3.1
57	BZ	121	HIS	3.1
30	B5	2	ALA	3.1
57	BZ	127	LYS	3.1
43	DI	76	THR	3.1
13	CM	24	GLY	3.1
38	DD	171	ASP	3.1
38	DD	236	GLY	3.1
43	BI	114	LEU	3.1
50	BS	108	GLY	3.1
35	BA	2506	U	3.1
35	DA	1578	U	3.1
10	CJ	44	VAL	3.1
57	BZ	96	VAL	3.1
57	BZ	139	VAL	3.1
28	D3	46	ASN	3.1
39	BE	151	TYR	3.1
57	BZ	25	PRO	3.1
1	CA	1492	A	3.1
5	CE	76	ILE	3.1
35	DA	2114	A	3.1
36	BB	29	A	3.1
36	DB	58	A	3.1
48	DQ	83	MET	3.1
57	DZ	113	ALA	3.1
1	AA	76	C	3.1
1	AA	1389	C	3.1
1	CA	76	C	3.1
35	BA	654(M)	C	3.1
35	BA	904	C	3.1
35	DA	280	C	3.1
35	DA	2161	C	3.1
13	CM	66	LEU	3.1
1	AA	69	G	3.1
1	AA	1271	G	3.1
1	CA	1198	G	3.1
4	AD	6	GLY	3.1
20	CT	11	SER	3.1
47	BP	62	LEU	3.1
57	BZ	117	LEU	3.1
35	BA	654(S)	G	3.1

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Mol	Chain	Res	Type	RSRZ
35	BA	2307	G	3.1
36	BB	119	G	3.1
36	DB	63	G	3.1
57	DZ	114	GLY	3.1
39	BE	18	ASP	3.1
4	AD	34	GLU	3.1
4	CD	24	GLU	3.1
31	D6	40	CYS	3.1
37	BC	42	VAL	3.1
47	DP	21	ARG	3.1
51	BT	39	ARG	3.1
20	AT	98	PRO	3.1
43	DI	137	PRO	3.1
1	AA	368	U	3.1
1	AA	1281	U	3.1
1	AA	1302	U	3.1
4	AD	5	ILE	3.1
4	AD	30	LYS	3.1
13	AM	25	ILE	3.1
23	CW	22	U	3.1
29	D4	5	ILE	3.1
35	BA	614(A)	U	3.1
35	BA	2312	U	3.1
52	BU	15	LYS	3.1
4	CD	32	ALA	3.1
7	CG	83	ALA	3.1
10	CJ	13	HIS	3.1
31	B6	46	HIS	3.1
43	BI	65	ALA	3.1
43	DI	100	ALA	3.1
48	DQ	141	GLN	3.1
56	DY	57	GLN	3.1
3	CC	87	LEU	3.1
7	AG	16	LEU	3.1
10	CJ	71	LEU	3.1
1	AA	533	A	3.1
1	AA	1289	A	3.1
12	AL	35	GLY	3.1
35	DA	899	A	3.1
1	CA	1397	C	3.1
9	CI	14	VAL	3.1
12	AL	39	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
22	CV	34	C	3.1
36	BB	12	C	3.1
41	BG	156	ASP	3.1
41	DG	5	VAL	3.1
50	DS	49	VAL	3.1
55	DX	51	VAL	3.1
39	BE	69	LYS	3.1
1	AA	530	G	3.1
1	CA	266	G	3.1
1	CA	1033	G	3.1
1	CA	1048	G	3.1
22	AV	55	G	3.1
22	CV	51	G	3.1
28	D3	15	TYR	3.1
34	D9	1	MET	3.1
35	BA	1107	G	3.1
35	DA	1332	G	3.1
35	DA	2302	G	3.1
51	BT	1	MET	3.1
34	B9	32	HIS	3.1
1	CA	1126	U	3.1
22	CV	12	U	3.1
12	CL	72	GLY	3.1
50	BS	60	GLY	3.1
47	BP	15	ARG	3.1
4	AD	178	VAL	3.1
9	CI	71	SER	3.1
29	B4	50	VAL	3.1
47	BP	71	VAL	3.1
3	AC	10	PHE	3.1
10	AJ	64	GLU	3.1
14	CN	61	TRP	3.1
41	BG	75	LYS	3.1
45	BN	68	GLU	3.1
35	BA	92	A	3.1
48	DQ	25	ASP	3.1
8	CH	83	ILE	3.1
12	AL	48	PRO	3.1
13	AM	82	MET	3.1
19	CS	49	ILE	3.1
43	BI	132	PRO	3.1
3	AC	201	TYR	3.1

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Mol	Chain	Res	Type	RSRZ
23	CW	4	C	3.0
35	BA	279	C	3.0
35	DA	2297	C	3.0
35	DA	2755	C	3.0
7	CG	38	LEU	3.0
9	CI	29	ASN	3.0
12	AL	107	ALA	3.0
12	CL	49	ASN	3.0
13	AM	12	ASN	3.0
52	BU	68	ALA	3.0
1	AA	111	G	3.0
1	AA	505	G	3.0
1	CA	1120	G	3.0
1	CA	1294	G	3.0
1	CA	1312	G	3.0
2	CB	144	ARG	3.0
4	AD	44	GLY	3.0
7	CG	130	GLY	3.0
10	AJ	60	ARG	3.0
21	AU	10	ARG	3.0
22	CV	20	G	3.0
35	BA	2383	G	3.0
35	DA	2526	G	3.0
36	BB	72	G	3.0
36	BB	75	G	3.0
39	DE	76	ARG	3.0
12	AL	42	THR	3.0
1	AA	164	U	3.0
8	CH	61	VAL	3.0
50	BS	69	VAL	3.0
19	AS	10	PHE	3.0
57	DZ	88	PHE	3.0
33	B8	65	GLU	3.0
47	BP	149	GLU	3.0
57	BZ	149	SER	3.0
8	AH	1	MET	3.0
9	AI	123	PRO	3.0
34	B9	26	ILE	3.0
4	AD	134	ASP	3.0
7	CG	85	TYR	3.0
43	DI	89	TYR	3.0
12	AL	27	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
56	BY	65	ALA	3.0
57	BZ	173	ALA	3.0
57	DZ	150	LEU	3.0
1	CA	535	A	3.0
24	AX	13	A	3.0
24	CX	19	A	3.0
35	BA	654	A	3.0
35	BA	2062	A	3.0
56	BY	97	ARG	3.0
1	CA	1354	C	3.0
35	BA	2292	C	3.0
35	DA	2111	C	3.0
36	BB	68	C	3.0
8	AH	24	THR	3.0
10	AJ	57	LYS	3.0
10	AJ	81	THR	3.0
12	CL	66	VAL	3.0
28	B3	59	VAL	3.0
34	B9	7	VAL	3.0
50	DS	63	THR	3.0
57	DZ	116	VAL	3.0
2	CB	70	PHE	3.0
10	CJ	11	PHE	3.0
41	DG	23	PHE	3.0
57	BZ	104	PHE	3.0
1	AA	96	U	3.0
23	CW	62	U	3.0
35	DA	2491	U	3.0
36	BB	1	U	3.0
1	AA	474	G	3.0
1	AA	1047	G	3.0
1	CA	1368	G	3.0
22	CY	47	G	3.0
35	BA	2191	G	3.0
35	BA	2372	G	3.0
35	DA	654(H)	G	3.0
3	CC	94	LEU	3.0
5	CE	60	TYR	3.0
6	AF	74	ASP	3.0
37	BC	33	LEU	3.0
50	DS	48	LEU	3.0
25	D0	55	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
47	BP	18	ARG	3.0
4	AD	9	CYS	3.0
10	AJ	7	LYS	3.0
10	CJ	10	GLY	3.0
48	DQ	85	LYS	3.0
1	AA	196	A	3.0
13	AM	117	VAL	3.0
19	CS	9	VAL	3.0
30	B5	57	VAL	3.0
43	DI	107	VAL	3.0
15	AO	22	THR	3.0
1	AA	620	C	3.0
1	CA	756	C	3.0
1	CA	866	C	3.0
3	AC	167	TRP	3.0
7	AG	146	GLU	3.0
35	BA	2179	C	3.0
35	DA	645	C	3.0
36	BB	32	C	3.0
36	DB	71	C	3.0
42	DH	148	ILE	3.0
10	CJ	35	SER	3.0
41	BG	106	LEU	3.0
2	CB	199	TYR	3.0
1	AA	486	U	3.0
1	AA	494	U	3.0
23	CW	13	U	3.0
35	DA	2113	U	3.0
57	BZ	123	ASP	3.0
13	AM	92	HIS	3.0
12	AL	63	GLY	3.0
1	AA	987	G	3.0
1	AA	993	G	3.0
1	AA	1108	G	3.0
1	CA	78	G	3.0
1	CA	926	G	3.0
3	AC	55	VAL	3.0
12	CL	18	VAL	3.0
19	AS	19	VAL	3.0
35	BA	2345	G	3.0
35	DA	944	G	3.0
35	DA	1047	G	3.0

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Mol	Chain	Res	Type	RSRZ
35	DA	2131	G	3.0
36	DB	75	G	3.0
43	BI	127	VAL	3.0
10	AJ	42	THR	3.0
19	AS	39	THR	3.0
33	B8	27	THR	3.0
20	AT	56	MET	3.0
47	BP	67	MET	3.0
3	CC	206	GLU	3.0
1	CA	1151	A	3.0
2	AB	196	LEU	3.0
35	DA	78	A	3.0
35	DA	1528	A	3.0
37	BC	2	PRO	3.0
43	DI	80	PRO	3.0
3	AC	179	ARG	3.0
12	AL	113	ARG	3.0
34	B9	18	ARG	3.0
5	CE	125	SER	3.0
50	BS	102	ALA	3.0
1	AA	1218	C	3.0
35	DA	902	C	3.0
35	DA	2477	C	3.0
35	DA	2789	C	3.0
36	DB	62	C	3.0
43	BI	121	LYS	3.0
56	BY	19	LYS	3.0
3	CC	120	VAL	3.0
8	CH	130	GLY	3.0
12	AL	82	VAL	3.0
13	AM	60	VAL	3.0
20	CT	73	HIS	3.0
53	DV	5	VAL	3.0
57	DZ	174	VAL	3.0
1	AA	982	U	3.0
14	AN	52	GLN	3.0
28	B3	46	ASN	3.0
31	B6	20	ASN	3.0
10	AJ	82	ILE	3.0
21	AU	8	THR	3.0
9	AI	85	LEU	2.9
21	CU	22	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
41	BG	96	ARG	2.9
1	AA	105	G	2.9
1	AA	199	G	2.9
1	AA	625	G	2.9
1	AA	1255	G	2.9
23	CW	15	G	2.9
23	CW	55	G	2.9
35	BA	928	G	2.9
35	DA	2127	G	2.9
35	DA	2156	G	2.9
12	AL	46	LYS	2.9
12	AL	54	LYS	2.9
13	AM	33	ALA	2.9
17	CQ	100	LYS	2.9
31	D6	45	LYS	2.9
33	D8	36	LYS	2.9
41	BG	74	LYS	2.9
50	BS	74	ALA	2.9
50	BS	93	LYS	2.9
50	DS	74	ALA	2.9
42	BH	83	TYR	2.9
50	BS	94	TYR	2.9
1	AA	344	A	2.9
1	AA	1442(B)	A	2.9
13	AM	85	GLY	2.9
42	DH	137	ASP	2.9
18	CR	43	PHE	2.9
1	AA	352	C	2.9
1	AA	1326	C	2.9
1	CA	442	C	2.9
1	CA	1400	C	2.9
35	BA	2380	C	2.9
3	CC	5	ILE	2.9
19	AS	44	MET	2.9
19	AS	49	ILE	2.9
5	AE	18	ARG	2.9
16	AP	42	ARG	2.9
35	DA	1534	U	2.9
37	BC	197	LEU	2.9
38	DD	244	ARG	2.9
41	BG	16	ARG	2.9
41	BG	135	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
7	AG	8	GLU	2.9
26	D1	48	LYS	2.9
29	B4	30	GLU	2.9
52	DU	89	GLU	2.9
9	AI	119	ALA	2.9
43	BI	100	ALA	2.9
3	CC	193	TYR	2.9
51	BT	32	TYR	2.9
57	DZ	99	TYR	2.9
10	AJ	44	VAL	2.9
12	AL	40	VAL	2.9
41	DG	160	VAL	2.9
21	AU	2	GLY	2.9
1	AA	113	G	2.9
1	AA	351	G	2.9
1	CA	471	G	2.9
1	CA	1338	G	2.9
12	AL	75	HIS	2.9
23	CW	59	G	2.9
25	D0	3	HIS	2.9
35	BA	1822	G	2.9
35	BA	2319	G	2.9
57	DZ	89	PHE	2.9
2	CB	215	LEU	2.9
10	CJ	60	ARG	2.9
35	BA	271	A	2.9
35	DA	1050	A	2.9
49	DR	105	ARG	2.9
2	AB	133	LYS	2.9
4	AD	46	LYS	2.9
13	CM	27	LYS	2.9
17	AQ	69	LYS	2.9
43	DI	93	THR	2.9
57	BZ	75	ASN	2.9
1	AA	1217	C	2.9
3	AC	44	GLU	2.9
16	AP	41	PRO	2.9
35	BA	2791	C	2.9
41	BG	68	PRO	2.9
54	BW	5	ALA	2.9
56	DY	78	ALA	2.9
1	CA	921	U	2.9

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Mol	Chain	Res	Type	RSRZ
22	AV	16	U	2.9
8	AH	97	VAL	2.9
11	AK	50	TYR	2.9
12	AL	120	TYR	2.9
34	D9	25	VAL	2.9
37	BC	176	VAL	2.9
34	B9	21	GLY	2.9
50	DS	27	SER	2.9
57	BZ	114	GLY	2.9
19	CS	10	PHE	2.9
9	CI	20	ARG	2.9
43	BI	79	ILE	2.9
48	BQ	16	ARG	2.9
57	BZ	57	ILE	2.9
34	D9	31	LYS	2.9
48	BQ	18	LYS	2.9
56	BY	63	LYS	2.9
57	BZ	156	LYS	2.9
10	CJ	15	THR	2.9
19	CS	79	THR	2.9
1	CA	426	G	2.9
20	AT	12	ALA	2.9
22	AY	51	G	2.9
22	CY	55	G	2.9
28	D3	25	ALA	2.9
34	D9	29	ASN	2.9
35	BA	2308	G	2.9
35	BA	2502	G	2.9
35	BA	2893	G	2.9
35	DA	352	G	2.9
35	DA	1122	G	2.9
35	DA	1478	G	2.9
36	DB	44	G	2.9
41	BG	122	PRO	2.9
35	BA	2169	A	2.9
35	DA	2801(A)	A	2.9
36	BB	15	A	2.9
36	BB	25	A	2.9
29	D4	33	VAL	2.9
1	CA	805	C	2.9
1	AA	961	U	2.9
1	AA	1049	U	2.9

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Mol	Chain	Res	Type	RSRZ
2	CB	148	TYR	2.9
4	CD	20	TYR	2.9
8	CH	128	GLY	2.9
22	AY	50	C	2.9
34	B9	24	TYR	2.9
35	BA	2137	C	2.9
35	BA	2178	C	2.9
35	BA	2794	C	2.9
35	DA	2380	C	2.9
36	DB	104	U	2.9
45	BN	77	GLY	2.9
47	DP	82	GLY	2.9
47	DP	104	GLY	2.9
12	CL	33	ARG	2.9
25	B0	55	ARG	2.9
38	DD	263	ARG	2.9
39	DE	61	ARG	2.9
47	BP	41	ARG	2.9
7	CG	120	ILE	2.9
17	CQ	65	ILE	2.9
12	AL	115	LYS	2.9
14	CN	58	LYS	2.9
20	CT	99	LEU	2.9
39	DE	77	ILE	2.9
43	DI	133	HIS	2.9
57	BZ	144	LEU	2.9
20	AT	18	GLN	2.9
33	D8	35	GLN	2.9
7	CG	33	ASP	2.9
41	BG	126	ASP	2.9
2	CB	218	ALA	2.9
10	CJ	53	PRO	2.9
12	CL	31	PRO	2.9
56	DY	65	ALA	2.9
42	DH	86	GLU	2.9
48	DQ	38	GLU	2.9
37	DC	215	VAL	2.9
50	BS	49	VAL	2.9
10	CJ	45	ARG	2.9
57	BZ	82	ARG	2.9
1	AA	535	A	2.9
1	AA	550	G	2.9

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Mol	Chain	Res	Type	RSRZ
1	CA	1009	G	2.9
1	CA	1139	G	2.9
1	CA	1353	G	2.9
1	CA	1505	G	2.9
14	CN	7	ILE	2.9
20	AT	58	LYS	2.9
22	AV	61	A	2.9
35	BA	2373	G	2.9
35	DA	1110	G	2.9
35	DA	1528(A)	A	2.9
35	DA	2346	A	2.9
3	CC	196	LEU	2.9
7	AG	38	LEU	2.9
36	BB	21	G	2.9
36	DB	81	G	2.9
36	DB	101	G	2.9
45	BN	137	LYS	2.9
48	DQ	79	LEU	2.9
42	BH	158	HIS	2.8
1	AA	419	C	2.8
1	AA	1219	U	2.8
17	AQ	97	SER	2.8
1	AA	1242	C	2.8
1	CA	1243	C	2.8
1	CA	1320	C	2.8
1	CA	1420	C	2.8
22	CV	8	U	2.8
23	AW	7	U	2.8
23	AW	22	U	2.8
35	DA	2385	C	2.8
36	BB	91	C	2.8
41	BG	26	GLN	2.8
3	AC	169	ALA	2.8
16	AP	46	PRO	2.8
19	AS	24	ALA	2.8
39	BE	70	ALA	2.8
12	AL	38	THR	2.8
25	D0	58	THR	2.8
43	BI	78	THR	2.8
47	BP	30	THR	2.8
2	CB	174	VAL	2.8
9	AI	26	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
19	AS	51	VAL	2.8
33	B8	33	ASN	2.8
37	BC	215	VAL	2.8
40	DF	163	VAL	2.8
47	DP	71	VAL	2.8
4	AD	122	ARG	2.8
46	DO	97	ARG	2.8
2	AB	89	GLY	2.8
4	CD	30	LYS	2.8
9	AI	56	LEU	2.8
9	CI	37	PHE	2.8
14	CN	55	GLY	2.8
17	AQ	98	LEU	2.8
56	DY	59	GLY	2.8
7	AG	31	MET	2.8
29	B4	43	TYR	2.8
50	BS	35	ILE	2.8
4	CD	43	HIS	2.8
39	DE	132	HIS	2.8
25	D0	40	GLN	2.8
29	B4	26	SER	2.8
35	BA	357	A	2.8
35	BA	1528	A	2.8
35	DA	2158	A	2.8
36	BB	48	A	2.8
36	DB	100	A	2.8
13	AM	5	ALA	2.8
56	DY	48	ALA	2.8
1	AA	139	G	2.8
1	AA	354	G	2.8
1	CA	22	G	2.8
1	CA	951	G	2.8
1	CA	1175	G	2.8
1	CA	1187	G	2.8
1	CA	1334	G	2.8
1	CA	1520	G	2.8
22	AY	1	G	2.8
22	CY	48	G	2.8
23	AW	47	G	2.8
23	CW	65	G	2.8
35	BA	353	G	2.8
35	BA	1034	G	2.8

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Mol	Chain	Res	Type	RSRZ
35	BA	2315	G	2.8
35	DA	281	G	2.8
36	BB	24	G	2.8
2	AB	193	ASP	2.8
47	BP	47	ASP	2.8
1	AA	189(B)	C	2.8
1	CA	455	C	2.8
4	AD	133	VAL	2.8
27	B2	51	ARG	2.8
31	B6	5	VAL	2.8
35	DA	2138	C	2.8
35	DA	2188	C	2.8
42	BH	167	GLU	2.8
43	DI	82	ARG	2.8
50	BS	43	GLU	2.8
48	DQ	18	LYS	2.8
5	CE	91	LEU	2.8
10	CJ	47	PHE	2.8
13	AM	66	LEU	2.8
14	CN	36	PHE	2.8
15	CO	3	ILE	2.8
40	DF	134	GLY	2.8
57	BZ	157	LEU	2.8
50	BS	92	TYR	2.8
56	DY	102	CYS	2.8
19	AS	57	HIS	2.8
12	AL	78	GLN	2.8
4	AD	29	PRO	2.8
10	CJ	41	PRO	2.8
48	DQ	5	ARG	2.8
43	BI	144	VAL	2.8
12	CL	13	LYS	2.8
16	CP	43	LYS	2.8
52	BU	91	ASP	2.8
55	DX	36	LYS	2.8
1	AA	26	A	2.8
1	AA	172	A	2.8
1	AA	983	A	2.8
1	CA	814	A	2.8
35	BA	2790	A	2.8
35	BA	2892	A	2.8
35	DA	276	A	2.8

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Mol	Chain	Res	Type	RSRZ
35	DA	653	A	2.8
36	DB	102	A	2.8
1	AA	1364	U	2.8
1	CA	13	U	2.8
1	CA	1205	U	2.8
41	DG	3	LEU	2.8
2	CB	211	ILE	2.8
5	CE	29	GLY	2.8
29	D4	14	ILE	2.8
41	BG	40	ASN	2.8
41	BG	77	ILE	2.8
56	BY	41	GLY	2.8
57	DZ	98	MET	2.8
1	AA	31	G	2.8
1	AA	61	G	2.8
1	AA	72	C	2.8
1	AA	131	C	2.8
1	AA	200	G	2.8
1	AA	976	G	2.8
1	AA	1382	C	2.8
1	CA	316	G	2.8
1	CA	654	G	2.8
1	CA	934	C	2.8
1	CA	1128	C	2.8
1	CA	1272	G	2.8
1	CA	1316	G	2.8
1	CA	1384	C	2.8
22	AV	27	C	2.8
22	AY	34	C	2.8
22	CV	6	C	2.8
22	CV	41	C	2.8
23	CW	51	G	2.8
30	D5	51	TYR	2.8
35	BA	1914	C	2.8
35	BA	2138	C	2.8
35	BA	2793	G	2.8
35	DA	916	G	2.8
35	DA	2293	C	2.8
35	DA	2338	G	2.8
36	BB	38	C	2.8
36	BB	85	G	2.8
42	DH	157	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
47	DP	80	TYR	2.8
19	CS	14	HIS	2.8
17	AQ	93	GLN	2.8
20	CT	12	ALA	2.8
42	DH	156	ALA	2.8
43	BI	115	ALA	2.8
50	DS	38	GLN	2.8
4	CD	209	ARG	2.8
5	CE	24	ARG	2.8
7	AG	5	ARG	2.8
8	CH	18	ARG	2.8
9	CI	9	ARG	2.8
47	BP	33	ARG	2.8
48	BQ	6	ARG	2.8
11	CK	121	PRO	2.8
20	CT	98	PRO	2.8
25	D0	47	PRO	2.8
29	D4	26	SER	2.8
42	BH	85	LYS	2.8
43	DI	127	VAL	2.8
56	DY	66	PRO	2.8
3	CC	42	LEU	2.8
11	AK	92	GLU	2.8
13	CM	34	LEU	2.8
31	D6	36	LEU	2.8
42	DH	7	LEU	2.8
47	DP	117	GLU	2.8
53	BV	45	THR	2.8
11	AK	95	ILE	2.8
14	AN	36	PHE	2.8
2	CB	90	MET	2.8
41	DG	52	ILE	2.8
47	BP	43	GLY	2.8
19	AS	23	ASN	2.8
19	AS	65	ASN	2.8
1	AA	140	A	2.8
1	AA	1313	U	2.8
1	CA	974	A	2.8
21	AU	18	TYR	2.8
29	D4	32	TYR	2.8
35	BA	1535	A	2.8
35	DA	12	U	2.8

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Mol	Chain	Res	Type	RSRZ
10	AJ	45	ARG	2.8
1	CA	19	C	2.8
1	CA	984	C	2.8
1	CA	1254	C	2.8
9	AI	127	LYS	2.8
1	AA	517	G	2.8
1	AA	1061	G	2.8
1	CA	73	G	2.8
1	CA	517	G	2.8
1	CA	1186	G	2.8
22	CY	1	G	2.8
31	B6	41	PRO	2.8
35	BA	356	G	2.8
35	BA	845	G	2.8
35	BA	1721	G	2.8
35	BA	2168	G	2.8
35	DA	82	G	2.8
35	DA	2523	G	2.8
36	BB	89	G	2.8
36	DB	54	G	2.8
57	BZ	158	PRO	2.8
3	CC	91	LEU	2.8
5	CE	119	LEU	2.8
19	CS	16	LEU	2.8
19	CS	35	SER	2.8
57	BZ	155	LEU	2.8
2	AB	12	GLU	2.8
37	DC	35	THR	2.8
43	BI	117	GLU	2.8
50	BS	107	GLU	2.8
56	BY	91	GLU	2.8
8	AH	13	ILE	2.8
10	AJ	63	PHE	2.7
41	DG	88	ILE	2.8
50	BS	87	PHE	2.7
2	CB	97	TRP	2.7
45	BN	1	MET	2.7
57	BZ	140	ASP	2.7
49	BR	11	ASN	2.7
9	AI	66	ARG	2.7
9	CI	83	ARG	2.7
14	CN	29	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
39	BE	19	ARG	2.7
42	DH	59	ARG	2.7
42	DH	158	HIS	2.7
51	DT	112	ARG	2.7
10	AJ	32	ALA	2.7
43	DI	112	LYS	2.7
1	CA	90	U	2.7
1	CA	914	A	2.7
1	CA	1180	A	2.7
1	CA	1196	U	2.7
2	AB	7	VAL	2.7
3	AC	68	VAL	2.7
7	AG	87	VAL	2.7
22	AV	62	U	2.7
22	AV	78	A	2.7
35	DA	2130	U	2.7
35	DA	2801	A	2.7
41	DG	41	GLN	2.7
47	BP	70	GLN	2.7
57	BZ	83	PRO	2.7
2	CB	196	LEU	2.7
10	AJ	88	LEU	2.7
26	B1	80	LEU	2.7
41	BG	173	LEU	2.7
47	BP	147	LEU	2.7
50	DS	101	LEU	2.7
1	AA	489	C	2.7
1	CA	1066	C	2.7
1	CA	1103	C	2.7
1	CA	1259	C	2.7
1	CA	1362	C	2.7
9	CI	101	PHE	2.7
16	AP	67	THR	2.7
22	CY	67	C	2.7
35	BA	654(I)	C	2.7
35	DA	2292	C	2.7
35	DA	2381	C	2.7
37	DC	181	PHE	2.7
39	DE	67	PHE	2.7
1	AA	181	G	2.7
1	AA	491	G	2.7
1	CA	869	G	2.7

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Mol	Chain	Res	Type	RSRZ
16	AP	40	ASP	2.7
22	CV	48	G	2.7
35	BA	2151	G	2.7
35	DA	1151	G	2.7
36	DB	69	G	2.7
36	DB	110	G	2.7
10	AJ	70	ARG	2.7
50	DS	97	ARG	2.7
56	DY	84	ARG	2.7
7	CG	29	LYS	2.7
17	CQ	51	TYR	2.7
20	CT	74	LYS	2.7
9	AI	117	HIS	2.7
29	B4	40	HIS	2.7
56	BY	69	ALA	2.7
34	B9	36	GLN	2.7
34	D9	3	VAL	2.7
42	DH	52	VAL	2.7
43	DI	104	GLN	2.7
45	BN	46	VAL	2.7
2	AB	149	LEU	2.7
20	AT	10	LEU	2.7
49	DR	70	LEU	2.7
1	AA	1235	U	2.7
1	CA	1083	U	2.7
1	CA	1159	U	2.7
1	CA	1341	U	2.7
1	CA	1348	U	2.7
5	AE	10	MET	2.7
22	CV	35	U	2.7
22	CY	8	U	2.7
22	CY	38	U	2.7
41	BG	141	PHE	2.7
53	BV	99	ILE	2.7
13	AM	52	GLU	2.7
17	AQ	58	GLU	2.7
43	DI	73	GLU	2.7
1	CA	461	A	2.7
19	AS	48	THR	2.7
35	BA	654(U)	A	2.7
35	BA	2801	A	2.7
35	DA	910	A	2.7

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Mol	Chain	Res	Type	RSRZ
16	AP	59	TRP	2.7
17	AQ	68	ARG	2.7
20	CT	83	ARG	2.7
32	B7	41	ARG	2.7
42	BH	42	ARG	2.7
3	CC	4	LYS	2.7
14	CN	4	LYS	2.7
41	BG	36	LYS	2.7
1	AA	1028	C	2.7
1	CA	91	C	2.7
22	AV	67	C	2.7
22	CY	4	C	2.7
22	CY	52	C	2.7
35	BA	2294	C	2.7
35	BA	2347	C	2.7
35	DA	865	C	2.7
36	DB	31	C	2.7
7	AG	150	ALA	2.7
11	CK	22	HIS	2.7
13	CM	5	ALA	2.7
14	AN	59	ALA	2.7
41	DG	158	ALA	2.7
43	BI	146	ALA	2.7
12	CL	36	VAL	2.7
43	DI	136	VAL	2.7
43	DI	142	VAL	2.7
25	B0	7	LEU	2.7
40	DF	24	LEU	2.7
1	AA	183	G	2.7
1	AA	409	G	2.7
1	AA	1048	G	2.7
1	CA	1047	G	2.7
1	CA	1494	G	2.7
22	CV	70	G	2.7
23	AW	10	G	2.7
23	AW	51	G	2.7
35	BA	2116	G	2.7
35	BA	2300	G	2.7
35	BA	2334	G	2.7
35	DA	921	G	2.7
35	DA	1173	G	2.7
36	BB	23	G	2.7

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Mol	Chain	Res	Type	RSRZ
36	DB	61	G	2.7
57	BZ	134	PRO	2.7
2	AB	42	ILE	2.7
8	CH	31	PHE	2.7
28	D3	43	ILE	2.7
29	B4	15	ILE	2.7
57	BZ	88	PHE	2.7
57	BZ	146	ILE	2.7
3	CC	205	GLY	2.7
12	CL	16	GLU	2.7
16	AP	54	GLU	2.7
40	DF	85	GLY	2.7
57	DZ	178	GLU	2.7
9	CI	104	ARG	2.7
41	DG	91	ARG	2.7
45	DN	22	THR	2.7
48	DQ	56	ARG	2.7
13	CM	64	TRP	2.7
14	CN	32	SER	2.7
15	CO	5	LYS	2.7
50	DS	47	THR	2.7
38	DD	89	SER	2.7
47	BP	25	SER	2.7
53	DV	24	LYS	2.7
23	CW	21	U	2.7
1	CA	965	A	2.7
1	CA	996	A	2.7
22	AY	23	A	2.7
22	CV	37	A	2.7
24	AX	19	A	2.7
36	BB	78	A	2.7
13	AM	59	TYR	2.7
48	BQ	138	ASP	2.7
51	BT	68	TYR	2.7
57	DZ	172	ALA	2.7
5	AE	148	VAL	2.7
19	CS	19	VAL	2.7
43	BI	123	LEU	2.7
43	BI	145	VAL	2.7
49	BR	4	LEU	2.7
56	BY	85	VAL	2.7
57	BZ	116	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
57	DZ	141	VAL	2.7
47	BP	9	ASN	2.7
23	CW	42	C	2.7
29	D4	7	PRO	2.7
35	BA	2477	C	2.7
48	DQ	68	ILE	2.7
57	BZ	108	PRO	2.7
19	CS	74	PHE	2.7
41	BG	155	MET	2.7
9	AI	83	ARG	2.7
13	AM	29	ARG	2.7
13	AM	99	ARG	2.7
13	AM	108	ARG	2.7
14	CN	19	ARG	2.7
21	CU	9	ARG	2.7
25	D0	20	ARG	2.7
42	BH	60	ARG	2.7
50	DS	89	ARG	2.7
2	AB	14	GLY	2.7
2	CB	133	LYS	2.7
14	CN	28	GLY	2.7
20	AT	101	GLY	2.7
37	BC	170	GLY	2.7
47	DP	76	LYS	2.7
55	DX	33	LYS	2.7
56	DY	88	LYS	2.7
10	CJ	42	THR	2.7
31	D6	47	THR	2.7
43	DI	86	THR	2.7
1	AA	142	G	2.7
1	AA	1181	G	2.7
1	AA	1331	G	2.7
1	AA	1442	G	2.7
1	CA	11	G	2.7
1	CA	491	G	2.7
1	CA	861	G	2.7
1	CA	1215	G	2.7
22	AV	26	G	2.7
23	AW	65	G	2.7
35	BA	642	G	2.7
35	BA	1332	G	2.7
35	DA	2744	G	2.7

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Mol	Chain	Res	Type	RSRZ
35	DA	2751	G	2.7
36	DB	89	G	2.7
41	BG	29	TRP	2.7
3	AC	200	ALA	2.7
8	CH	124	ALA	2.7
41	DG	163	ALA	2.7
4	AD	96	LEU	2.7
8	CH	65	TYR	2.7
9	CI	85	LEU	2.7
11	CK	103	LEU	2.7
20	CT	10	LEU	2.7
36	BB	8	U	2.7
40	BF	148	LEU	2.7
41	BG	120	LEU	2.7
42	DH	26	VAL	2.7
43	DI	101	LEU	2.7
56	BY	31	LEU	2.7
57	DZ	161	VAL	2.7
6	CF	55	ASP	2.7
16	AP	16	HIS	2.7
20	CT	16	HIS	2.7
21	AU	5	ASP	2.7
41	BG	49	ASP	2.7
48	DQ	71	ASP	2.7
37	BC	166	ASN	2.7
52	DU	44	ASN	2.7
1	AA	640	A	2.6
1	AA	792	A	2.6
1	AA	1279	A	2.6
1	CA	1183	A	2.6
1	CA	1340	A	2.6
2	CB	91	PRO	2.6
4	AD	67	ILE	2.6
12	CL	78	GLN	2.6
16	AP	33	ILE	2.6
34	D9	30	PRO	2.6
35	DA	332	A	2.6
36	DB	45	A	2.6
37	BC	17	PRO	2.6
41	DG	20	ILE	2.6
2	CB	122	PHE	2.6
49	DR	91	GLN	2.6

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Mol	Chain	Res	Type	RSRZ
3	CC	150	LYS	2.6
12	AL	17	LYS	2.6
39	DE	145	LYS	2.6
56	DY	28	LYS	2.6
5	CE	114	GLY	2.6
12	AL	74	GLY	2.6
29	B4	4	GLY	2.6
29	B4	23	GLU	2.6
40	DF	179	GLU	2.6
43	DI	84	GLY	2.6
50	BS	109	GLY	2.6
1	AA	135	C	2.6
1	AA	1327	C	2.6
1	CA	443	C	2.6
35	BA	574	C	2.6
35	BA	1909	C	2.6
35	DA	985	C	2.6
35	DA	1018	C	2.6
35	DA	2402	C	2.6
36	DB	12	C	2.6
36	DB	28	C	2.6
19	AS	79	THR	2.6
21	CU	17	THR	2.6
3	CC	180	ALA	2.6
17	CQ	44	ALA	2.6
17	CQ	97	SER	2.6
37	DC	176	VAL	2.6
39	BE	68	ALA	2.6
41	BG	160	VAL	2.6
41	DG	15	VAL	2.6
43	DI	19	VAL	2.6
49	DR	98	LEU	2.6
51	DT	31	SER	2.6
52	DU	77	SER	2.6
15	CO	69	TYR	2.6
50	BS	34	HIS	2.6
1	AA	108	G	2.6
1	AA	148	G	2.6
1	CA	428	G	2.6
1	CA	1050	G	2.6
1	CA	1387	G	2.6
35	BA	275	G	2.6

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Mol	Chain	Res	Type	RSRZ
35	BA	1888	G	2.6
35	DA	1144	G	2.6
35	DA	2104	G	2.6
35	DA	2133	G	2.6
36	BB	101	G	2.6
36	DB	56	G	2.6
36	DB	118	G	2.6
43	DI	14	ASP	2.6
50	DS	40	ILE	2.6
55	DX	6	ASP	2.6
7	CG	73	MET	2.6
23	CW	16	U	2.6
35	BA	272(I)	U	2.6
50	BS	61	ASN	2.6
3	CC	159	GLY	2.6
7	CG	82	GLY	2.6
21	AU	19	GLY	2.6
21	CU	4	GLY	2.6
39	DE	186	GLY	2.6
1	AA	383	A	2.6
7	AG	74	GLU	2.6
30	D5	48	GLU	2.6
35	BA	1111	A	2.6
35	DA	282	A	2.6
35	DA	1544	A	2.6
54	DW	31	GLU	2.6
13	CM	86	CYS	2.6
29	D4	35	VAL	2.6
37	BC	46	ALA	2.6
37	BC	213	VAL	2.6
50	DS	32	LEU	2.6
23	AW	36	C	2.6
35	BA	1052	C	2.6
35	BA	2129	C	2.6
35	DA	271(B)	C	2.6
35	DA	654(P)	C	2.6
35	DA	2146	C	2.6
2	CB	31	TYR	2.6
7	AG	151	TYR	2.6
7	CG	153	HIS	2.6
45	DN	4	TYR	2.6
19	AS	31	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
3	CC	203	PHE	2.6
16	CP	68	ASP	2.6
45	DN	24	GLY	2.6
1	CA	1315	U	2.6
13	CM	61	GLU	2.6
17	AQ	96	GLU	2.6
23	AW	56	U	2.6
41	BG	174	GLU	2.6
49	DR	102	GLU	2.6
1	AA	144	G	2.6
1	AA	450	G	2.6
1	AA	631	G	2.6
1	AA	1202	G	2.6
1	CA	220	G	2.6
1	CA	1036	G	2.6
1	CA	1094	G	2.6
35	DA	1750	G	2.6
35	DA	2371	G	2.6
36	BB	86	G	2.6
2	AB	61	LEU	2.6
3	AC	175	LEU	2.6
3	AC	196	LEU	2.6
19	AS	15	LEU	2.6
53	BV	20	LEU	2.6
2	CB	24	TRP	2.6
2	CB	230	VAL	2.6
14	AN	5	ALA	2.6
4	CD	26	CYS	2.6
1	AA	1306	A	2.6
1	CA	949	A	2.6
10	CJ	50	ILE	2.6
19	AS	18	LYS	2.6
35	DA	1009	A	2.6
35	DA	1495	A	2.6
47	BP	108	LYS	2.6
47	DP	65	ARG	2.6
48	BQ	98	LYS	2.6
57	BZ	36	LYS	2.6
4	AD	207	TYR	2.6
53	DV	87	HIS	2.6
54	BW	9	TYR	2.6
2	CB	101	MET	2.6

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Mol	Chain	Res	Type	RSRZ
37	DC	52	PRO	2.6
50	DS	29	PHE	2.6
1	AA	1200	C	2.6
1	AA	1262	C	2.6
1	CA	504	C	2.6
1	CA	569	C	2.6
10	CJ	84	GLN	2.6
23	AW	67	C	2.6
23	CW	5	C	2.6
23	CW	50	C	2.6
36	DB	38	C	2.6
39	BE	174	ASP	2.6
55	DX	75	ASP	2.6
5	CE	22	GLY	2.6
7	CG	84	ASN	2.6
11	AK	26	ASN	2.6
19	AS	46	GLY	2.6
2	AB	128	GLU	2.6
7	AG	124	LEU	2.6
41	DG	53	LEU	2.6
7	CG	118	VAL	2.6
12	AL	101	VAL	2.6
57	BZ	161	VAL	2.6
1	AA	223	U	2.6
1	CA	723	U	2.6
1	CA	981	U	2.6
1	CA	1085	U	2.6
2	AB	107	THR	2.6
4	AD	169	LYS	2.6
7	AG	32	ARG	2.6
22	AV	12	U	2.6
23	CW	46	U	2.6
29	B4	52	THR	2.6
31	B6	25	LYS	2.6
33	B8	34	TRP	2.6
50	BS	11	LYS	2.6
56	BY	23	ARG	2.6
11	CK	119	CYS	2.6
42	BH	72	ILE	2.6
1	AA	306	G	2.6
1	AA	406	G	2.6
1	AA	548	G	2.6

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Mol	Chain	Res	Type	RSRZ
1	AA	927	G	2.6
1	AA	1001(A)	G	2.6
1	CA	888	G	2.6
1	CA	1034	G	2.6
9	AI	62	TYR	2.6
9	AI	125	TYR	2.6
9	CI	117	HIS	2.6
11	AK	58	PRO	2.6
12	CL	48	PRO	2.6
12	CL	116	SER	2.6
22	AV	54	G	2.6
22	CV	49	G	2.6
35	BA	852	G	2.6
35	BA	2152	G	2.6
35	DA	1949	G	2.6
35	DA	2382	G	2.6
36	DB	113	G	2.6
1	AA	55	A	2.6
1	CA	195	A	2.6
1	CA	574	A	2.6
9	CI	124	GLN	2.6
24	CX	16	A	2.6
35	DA	2448	A	2.6
41	BG	89	GLY	2.6
39	DE	121	ASN	2.6
3	AC	34	LEU	2.6
15	CO	57	LEU	2.6
1	AA	165	C	2.6
1	AA	189(C)	C	2.6
1	AA	201	C	2.6
1	AA	341	C	2.6
1	AA	549	C	2.6
1	CA	436	C	2.6
1	CA	1284	C	2.6
1	CA	1325	C	2.6
7	CG	8	GLU	2.6
3	CC	198	VAL	2.6
12	AL	104	VAL	2.6
22	CV	58	C	2.6
22	CY	73	C	2.6
35	BA	865	C	2.6
35	BA	2297	C	2.6

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Mol	Chain	Res	Type	RSRZ
35	BA	2306	C	2.6
36	BB	31	C	2.6
36	BB	88	C	2.6
43	BI	85	GLU	2.6
3	AC	199	LYS	2.6
9	CI	78	LYS	2.6
13	CM	107	ALA	2.6
28	B3	42	ALA	2.6
33	D8	26	LYS	2.6
38	BD	240	ALA	2.6
42	BH	75	ALA	2.6
50	DS	46	VAL	2.6
50	BS	33	LYS	2.6
56	DY	34	LYS	2.6
25	D0	10	THR	2.6
41	DG	71	THR	2.6
37	DC	172	ILE	2.5
38	DD	6	PHE	2.5
4	CD	68	TYR	2.5
14	CN	21	TYR	2.5
22	AY	22	U	2.5
23	AW	18	U	2.5
35	DA	2109	U	2.5
36	BB	34	U	2.5
36	DB	80	U	2.5
48	DQ	126	PRO	2.5
38	DD	12	SER	2.5
9	CI	8	GLY	2.5
12	AL	121	GLY	2.5
39	BE	54	GLN	2.5
56	BY	22	GLY	2.5
57	DZ	147	GLY	2.5
2	CB	115	LEU	2.5
4	AD	157	LEU	2.5
20	CT	72	LEU	2.5
26	D1	95	LEU	2.5
1	AA	988	G	2.5
1	AA	1233	G	2.5
1	AA	1258	G	2.5
1	CA	1182	G	2.5
2	CB	53	ARG	2.5
23	AW	54	G	2.5

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Mol	Chain	Res	Type	RSRZ
30	B5	45	VAL	2.5
33	B8	49	VAL	2.5
35	DA	862	G	2.5
35	DA	987	G	2.5
35	DA	1149	G	2.5
35	DA	2536	G	2.5
36	DB	19	G	2.5
38	BD	26	LYS	2.5
48	BQ	67	ARG	2.5
41	DG	35	GLU	2.5
51	DT	109	GLU	2.5
56	BY	49	VAL	2.5
1	AA	496	A	2.5
1	AA	975	A	2.5
1	AA	1035	A	2.5
7	CG	40	ALA	2.5
23	CW	37	A	2.5
35	DA	2542	A	2.5
36	BB	46	A	2.5
36	DB	73	A	2.5
41	DG	50	ALA	2.5
37	DC	194	ILE	2.5
41	DG	100	TRP	2.5
42	DH	129	THR	2.5
48	DQ	41	TRP	2.5
1	AA	1270	C	2.5
1	CA	1147	C	2.5
1	CA	1277	C	2.5
7	AG	62	PHE	2.5
16	AP	9	PHE	2.5
35	BA	2803	C	2.5
19	AS	42	PRO	2.5
37	DC	183	PRO	2.5
1	CA	437	U	2.5
3	AC	118	GLN	2.5
3	CC	175	LEU	2.5
25	D0	28	GLY	2.5
38	DD	266	SER	2.5
7	CG	4	ARG	2.5
14	CN	57	ARG	2.5
16	CP	71	ARG	2.5
25	D0	24	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
47	BP	86	LYS	2.5
2	CB	165	VAL	2.5
7	AG	39	ALA	2.5
28	D3	38	GLU	2.5
37	DC	51	ASP	2.5
57	DZ	34	ASN	2.5
3	AC	202	ILE	2.5
52	DU	80	ILE	2.5
10	CJ	67	THR	2.5
13	AM	64	TRP	2.5
46	DO	1	MET	2.5
48	BQ	7	MET	2.5
50	BS	63	THR	2.5
1	CA	1035	A	2.5
1	CA	1493	A	2.5
23	CW	60	A	2.5
35	BA	2335	A	2.5
35	BA	2336	A	2.5
35	DA	901	A	2.5
35	DA	917	A	2.5
36	DB	15	A	2.5
36	DB	52	A	2.5
1	AA	1494	G	2.5
35	BA	2318	G	2.5
35	DA	654(S)	G	2.5
35	DA	2375	G	2.5
35	DA	2487	G	2.5
36	BB	76	G	2.5
36	BB	107	G	2.5
2	AB	16	HIS	2.5
4	CD	37	PRO	2.5
7	AG	93	PRO	2.5
41	BG	12	TYR	2.5
42	BH	157	TYR	2.5
43	BI	133	HIS	2.5
43	DI	119	PRO	2.5
56	BY	82	PRO	2.5
15	AO	20	GLY	2.5
16	AP	35	LYS	2.5
20	CT	13	LEU	2.5
1	AA	386	C	2.5
1	AA	418	C	2.5

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Mol	Chain	Res	Type	RSRZ
1	AA	1296	C	2.5
1	AA	1335	C	2.5
1	CA	89	C	2.5
1	CA	1195	C	2.5
1	CA	1403	C	2.5
5	AE	97	GLY	2.5
22	AV	64	C	2.5
33	D8	39	LYS	2.5
35	BA	2111	C	2.5
35	DA	2137	C	2.5
35	DA	2538	C	2.5
48	DQ	6	ARG	2.5
49	DR	32	GLY	2.5
51	BT	35	LYS	2.5
56	BY	34	LYS	2.5
57	BZ	131	ARG	2.5
19	AS	38	SER	2.5
9	AI	65	VAL	2.5
53	DV	14	VAL	2.5
57	BZ	141	VAL	2.5
41	DG	46	ALA	2.5
1	AA	1125	U	2.5
14	AN	8	GLU	2.5
22	CY	18	U	2.5
35	BA	2102	U	2.5
35	DA	1026	U	2.5
35	DA	1108	U	2.5
36	DB	40	U	2.5
48	BQ	80	GLU	2.5
51	BT	11	GLU	2.5
2	CB	198	ASP	2.5
8	CH	13	ILE	2.5
12	CL	100	ILE	2.5
43	DI	96	ASP	2.5
48	DQ	31	ASP	2.5
48	DQ	3	MET	2.5
7	CG	43	PHE	2.5
13	AM	20	THR	2.5
29	B4	11	PRO	2.5
42	DH	83	TYR	2.5
43	DI	134	PRO	2.5
4	CD	64	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
9	AI	118	LYS	2.5
16	AP	72	ARG	2.5
20	AT	17	ARG	2.5
43	DI	114	LEU	2.5
46	DO	67	LYS	2.5
50	BS	106	ARG	2.5
1	AA	151	A	2.5
1	AA	1236	A	2.5
1	CA	441	A	2.5
1	CA	794	A	2.5
1	CA	1102	A	2.5
5	AE	85	GLY	2.5
24	AX	24	A	2.5
35	BA	901	A	2.5
35	BA	1054	A	2.5
35	BA	1177	A	2.5
35	DA	2062	A	2.5
36	DB	39	A	2.5
40	BF	207	GLY	2.5
47	BP	34	GLY	2.5
7	CG	13	GLN	2.5
7	CG	80	VAL	2.5
48	BQ	113	GLN	2.5
52	BU	117	GLN	2.5
1	AA	537	G	2.5
1	AA	1215	G	2.5
1	AA	1253	G	2.5
1	AA	1272	G	2.5
1	CA	658	G	2.5
1	CA	1053	G	2.5
1	CA	1386	G	2.5
3	AC	60	ALA	2.5
3	CC	160	ALA	2.5
11	AK	119	CYS	2.5
22	AY	48	G	2.5
23	CW	66	G	2.5
35	BA	630	G	2.5
35	DA	272	G	2.5
35	DA	975(A)	G	2.5
35	DA	1347	G	2.5
35	DA	1517	G	2.5
35	DA	2270	G	2.5

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Mol	Chain	Res	Type	RSRZ
36	BB	33	G	2.5
48	DQ	20	ALA	2.5
51	DT	130	ALA	2.5
2	CB	108	ILE	2.5
1	AA	54	C	2.5
1	AA	186	C	2.5
1	AA	390	C	2.5
1	AA	536	C	2.5
1	CA	589	C	2.5
1	CA	990	C	2.5
1	CA	1163	C	2.5
1	CA	1223	C	2.5
3	CC	161	GLU	2.5
10	CJ	83	GLU	2.5
23	CW	34	C	2.5
35	BA	271(Z)	C	2.5
35	BA	645	C	2.5
35	BA	654(B)	C	2.5
35	BA	1745	C	2.5
35	BA	2161	C	2.5
35	DA	898	C	2.5
35	DA	1536	C	2.5
13	AM	62	ASN	2.5
14	CN	16	PHE	2.5
27	D2	52	ASP	2.5
41	BG	102	PHE	2.5
1	CA	992	U	2.5
5	CE	116	THR	2.5
10	CJ	92	THR	2.5
35	BA	2122	U	2.5
35	DA	714	U	2.5
35	DA	1142	U	2.5
2	AB	96	ARG	2.5
3	AC	188	LEU	2.5
8	CH	92	ARG	2.5
16	AP	28	ARG	2.5
41	DG	82	LEU	2.5
47	DP	48	PRO	2.5
49	DR	10	LEU	2.5
9	AI	114	TYR	2.5
25	D0	26	TYR	2.5
30	D5	52	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
47	BP	118	GLY	2.5
5	CE	67	VAL	2.5
53	BV	14	VAL	2.5
6	AF	94	GLN	2.5
13	AM	51	ALA	2.4
17	AQ	44	ALA	2.4
37	DC	171	ALA	2.4
45	DN	132	ALA	2.4
4	AD	204	ILE	2.4
11	CK	32	ILE	2.4
14	AN	42	ILE	2.4
49	BR	6	SER	2.4
1	AA	1363(A)	A	2.4
1	CA	986	A	2.4
1	CA	1236	A	2.4
19	CS	73	GLU	2.4
22	AV	24	A	2.4
22	AY	75	A	2.4
27	D2	12	GLU	2.4
35	BA	973	A	2.4
35	BA	1490	A	2.4
35	DA	1542	A	2.4
41	BG	14	GLU	2.4
43	DI	70	GLU	2.4
5	AE	27	ARG	2.4
15	CO	48	LYS	2.4
20	AT	64	ASP	2.4
20	CT	22	ARG	2.4
27	D2	51	ARG	2.4
28	D3	17	LYS	2.4
38	DD	38	LYS	2.4
40	DF	18	ARG	2.4
49	DR	68	ARG	2.4
50	DS	61	ASN	2.4
53	DV	85	LYS	2.4
56	BY	2	ARG	2.4
57	DZ	75	ASN	2.4
1	AA	48	C	2.4
1	AA	310	G	2.4
1	AA	588	G	2.4
1	AA	1008	C	2.4
1	AA	1026	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	AA	1094	G	2.4
1	AA	1131	G	2.4
1	CA	924	C	2.4
1	CA	976	G	2.4
2	AB	69	LEU	2.4
5	AE	12	LEU	2.4
5	CE	98	THR	2.4
6	CF	19	LEU	2.4
11	CK	31	THR	2.4
12	AL	44	THR	2.4
16	AP	44	THR	2.4
22	AV	10	G	2.4
22	CY	3	G	2.4
22	CY	49	G	2.4
35	BA	654(O)	G	2.4
35	DA	574	C	2.4
35	DA	928	G	2.4
36	DB	51	G	2.4
41	BG	7	LEU	2.4
57	BZ	163	LEU	2.4
57	DZ	157	LEU	2.4
4	AD	39	PRO	2.4
31	D6	31	PRO	2.4
37	DC	227	PRO	2.4
42	DH	10	PRO	2.4
56	DY	82	PRO	2.4
1	AA	20	U	2.4
12	AL	64	TYR	2.4
35	BA	913	U	2.4
35	BA	2406	U	2.4
35	DA	2312	U	2.4
35	DA	2387	U	2.4
40	BF	7	TYR	2.4
41	DG	11	TYR	2.4
52	DU	81	HIS	2.4
2	AB	18	GLY	2.4
5	CE	23	GLY	2.4
21	AU	4	GLY	2.4
29	D4	17	GLY	2.4
41	DG	37	VAL	2.4
43	DI	81	VAL	2.4
47	BP	24	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
47	BP	54	GLY	2.4
51	BT	92	GLY	2.4
57	DZ	71	VAL	2.4
31	D6	22	ALA	2.4
43	DI	94	ALA	2.4
10	AJ	50	ILE	2.4
13	AM	78	ILE	2.4
50	DS	35	ILE	2.4
5	AE	19	MET	2.4
4	AD	31	CYS	2.4
4	AD	80	GLU	2.4
4	AD	91	SER	2.4
27	D2	5	GLU	2.4
27	D2	34	GLU	2.4
42	DH	155	SER	2.4
43	BI	122	GLU	2.4
39	BE	145	LYS	2.4
40	DF	139	PHE	2.4
56	BY	102	CYS	2.4
4	AD	118	ARG	2.4
4	CD	139	ARG	2.4
7	AG	36	LYS	2.4
8	CH	116	LYS	2.4
9	AI	10	ARG	2.4
13	AM	88	ARG	2.4
13	CM	57	ARG	2.4
41	DG	8	LYS	2.4
52	DU	15	LYS	2.4
54	BW	92	ARG	2.4
56	BY	21	LYS	2.4
7	CG	59	LEU	2.4
7	CG	99	LEU	2.4
12	CL	93	LEU	2.4
17	AQ	6	LEU	2.4
19	CS	30	LEU	2.4
42	DH	105	LEU	2.4
47	DP	6	LEU	2.4
1	AA	453	A	2.4
1	AA	1191	A	2.4
1	CA	1123	A	2.4
2	CB	125	PRO	2.4
7	AG	14	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
22	CV	75	A	2.4
22	CY	9	A	2.4
35	DA	909	A	2.4
35	DA	1021	A	2.4
36	BB	102	A	2.4
53	DV	16	PRO	2.4
3	AC	207	VAL	2.4
3	CC	103	VAL	2.4
9	CI	92	TYR	2.4
13	CM	7	VAL	2.4
37	BC	4	HIS	2.4
42	BH	113	VAL	2.4
42	DH	115	VAL	2.4
57	DZ	115	GLY	2.4
1	AA	154	C	2.4
1	AA	385	C	2.4
1	AA	1297	C	2.4
1	CA	1051	C	2.4
13	AM	18	ALA	2.4
22	CV	50	C	2.4
23	CW	67	C	2.4
35	BA	654(Q)	C	2.4
35	BA	894	C	2.4
35	BA	903	C	2.4
35	DA	1152	C	2.4
35	DA	1547	C	2.4
35	DA	1852	C	2.4
35	DA	2178	C	2.4
42	DH	89	ILE	2.4
47	DP	31	ALA	2.4
48	BQ	140	ALA	2.4
48	DQ	140	ALA	2.4
1	AA	99	U	2.4
1	AA	348	G	2.4
1	AA	384	G	2.4
1	AA	529	G	2.4
1	AA	947	G	2.4
1	CA	493	G	2.4
1	CA	1052	U	2.4
22	CV	28	G	2.4
35	BA	862	G	2.4
35	BA	882	G	2.4

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Mol	Chain	Res	Type	RSRZ
35	BA	927	G	2.4
35	BA	972	G	2.4
35	BA	1187	G	2.4
35	BA	2296	U	2.4
35	BA	2303	G	2.4
35	BA	2553	G	2.4
35	DA	630	G	2.4
35	DA	2190	G	2.4
36	BB	77	U	2.4
36	BB	113	G	2.4
36	DB	34	U	2.4
7	CG	5	ARG	2.4
9	CI	70	LYS	2.4
3	AC	206	GLU	2.4
10	AJ	46	ARG	2.4
25	B0	74	ARG	2.4
26	D1	26	ARG	2.4
27	B2	55	ARG	2.4
47	DP	52	GLU	2.4
48	BQ	56	ARG	2.4
49	BR	105	ARG	2.4
13	CM	90	LEU	2.4
31	B6	36	LEU	2.4
2	AB	159	PRO	2.4
7	AG	109	ASN	2.4
10	CJ	48	THR	2.4
30	B5	34	PRO	2.4
31	D6	20	ASN	2.4
33	B8	2	PRO	2.4
2	CB	193	ASP	2.4
7	AG	91	VAL	2.4
19	CS	60	VAL	2.4
41	BG	15	VAL	2.4
57	DZ	56	VAL	2.4
16	AP	38	TYR	2.4
57	BZ	99	TYR	2.4
9	CI	122	ALA	2.4
1	AA	1014	A	2.4
1	AA	1041	A	2.4
1	CA	196	A	2.4
1	CA	262	A	2.4
1	CA	1146	A	2.4

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Mol	Chain	Res	Type	RSRZ
1	CA	1176	A	2.4
12	AL	85	ILE	2.4
48	BQ	120	ILE	2.4
50	DS	102	ALA	2.4
22	CV	40	A	2.4
22	CV	78	A	2.4
22	CY	61	A	2.4
35	BA	870	A	2.4
35	DA	278	A	2.4
4	CD	169	LYS	2.4
9	AI	73	GLN	2.4
13	CM	101	GLN	2.4
26	B1	48	LYS	2.4
32	B7	36	GLN	2.4
47	BP	64	LYS	2.4
48	BQ	1	MET	2.4
48	DQ	13	GLN	2.4
13	CM	108	ARG	2.4
34	B9	19	ARG	2.4
55	DX	62	LYS	2.4
9	AI	37	PHE	2.4
1	AA	178	C	2.4
1	AA	224	C	2.4
1	AA	796	C	2.4
1	AA	1097	C	2.4
1	AA	1263	C	2.4
1	CA	514	C	2.4
1	CA	930	C	2.4
1	CA	970	C	2.4
1	CA	1069	C	2.4
1	CA	1242	C	2.4
1	CA	1322	C	2.4
2	CB	155	LEU	2.4
5	CE	122	GLU	2.4
22	AV	50	C	2.4
23	CW	73	C	2.4
35	BA	2301	C	2.4
35	BA	2317	C	2.4
35	DA	886	C	2.4
35	DA	2350	C	2.4
36	BB	6	C	2.4
41	BG	137	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
41	DG	172	LEU	2.4
43	BI	41	GLU	2.4
43	DI	85	GLU	2.4
46	BO	120	GLU	2.4
56	BY	62	GLU	2.4
1	AA	265	G	2.4
1	AA	331	G	2.4
1	AA	1022	G	2.4
1	CA	351	G	2.4
1	CA	425	G	2.4
1	CA	799	G	2.4
1	CA	851	G	2.4
1	CA	1164	G	2.4
1	CA	1255	G	2.4
35	BA	363	G	2.4
35	DA	654(C)	G	2.4
35	DA	1888	G	2.4
35	DA	2187	G	2.4
35	DA	2481	G	2.4
35	DA	2482	G	2.4
9	AI	21	PRO	2.4
13	CM	10	PRO	2.4
21	AU	14	TRP	2.4
5	CE	69	VAL	2.4
13	CM	17	VAL	2.4
17	CQ	11	VAL	2.4
17	CQ	20	THR	2.4
31	D6	5	VAL	2.4
13	AM	119	GLY	2.4
26	B1	28	GLY	2.4
51	DT	25	GLY	2.4
56	BY	18	GLY	2.4
4	AD	54	TYR	2.4
12	CL	68	ALA	2.4
52	DU	47	TYR	2.4
38	BD	38	LYS	2.4
42	DH	138	LYS	2.4
43	DI	69	LYS	2.4
50	DS	59	LYS	2.4
21	AU	22	ARG	2.4
33	B8	30	ARG	2.4
2	CB	55	PHE	2.4

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Mol	Chain	Res	Type	RSRZ
12	AL	32	PHE	2.4
56	BY	60	PHE	2.4
43	BI	116	LEU	2.4
1	AA	572	A	2.4
1	AA	1238	A	2.4
1	AA	1332	A	2.4
1	CA	533	A	2.4
1	CA	1101	A	2.4
1	CA	1396	A	2.4
4	CD	156	GLU	2.4
9	AI	12	GLU	2.4
22	CV	25	A	2.4
35	BA	276	A	2.4
35	BA	363(A)	A	2.4
35	BA	2126	A	2.4
35	DA	1445	A	2.4
36	DB	29	A	2.4
42	BH	47	GLU	2.4
43	DI	99	GLU	2.4
2	AB	150	SER	2.4
25	B0	16	SER	2.4
50	DS	50	SER	2.4
10	AJ	77	PRO	2.4
10	CJ	49	VAL	2.4
22	AV	46	U	2.4
35	BA	155	U	2.4
35	BA	1108	U	2.4
35	BA	1739	U	2.4
35	BA	2585	U	2.4
31	B6	40	CYS	2.4
43	BI	134	PRO	2.4
45	DN	40	PRO	2.4
57	DZ	25	PRO	2.4
1	AA	449	C	2.3
1	AA	1060	C	2.3
1	AA	1249	C	2.3
1	CA	489	C	2.3
1	CA	1100	C	2.3
23	CW	64	C	2.3
35	BA	640	C	2.3
36	DB	49	C	2.3
41	DG	42	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
41	DG	129	GLY	2.3
50	DS	109	GLY	2.3
55	BX	37	THR	2.3
2	AB	188	ALA	2.3
3	AC	6	HIS	2.3
4	AD	22	LYS	2.3
4	AD	182	LYS	2.3
4	AD	138	TYR	2.3
5	AE	13	ILE	2.3
5	AE	48	ALA	2.3
6	CF	8	ILE	2.3
7	CG	37	ASN	2.3
9	CI	11	LYS	2.3
10	CJ	69	ASN	2.3
19	CS	53	ASN	2.3
29	B4	31	ILE	2.3
31	B6	45	LYS	2.3
43	BI	118	LYS	2.3
7	AG	94	ARG	2.3
10	CJ	70	ARG	2.3
13	CM	104	ARG	2.3
19	AS	36	ARG	2.3
32	D7	47	ARG	2.3
33	B8	46	ARG	2.3
45	BN	18	ALA	2.3
50	BS	13	ARG	2.3
57	BZ	137	ILE	2.3
1	AA	407	G	2.3
1	AA	540	G	2.3
1	AA	1117	G	2.3
1	AA	1334	G	2.3
1	AA	1355	G	2.3
1	CA	1224	G	2.3
1	CA	1309	G	2.3
22	AV	65	G	2.3
22	AV	70	G	2.3
22	CV	26	G	2.3
35	BA	869	G	2.3
35	BA	2337	G	2.3
35	DA	2125	G	2.3
35	DA	2470	G	2.3
35	DA	2486	G	2.3

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Mol	Chain	Res	Type	RSRZ
36	BB	9	G	2.3
36	BB	111	G	2.3
3	AC	186	PHE	2.3
14	AN	39	LEU	2.3
14	CN	44	LEU	2.3
49	BR	98	LEU	2.3
57	BZ	18	LEU	2.3
57	DZ	136	PHE	2.3
4	CD	34	GLU	2.3
26	B1	89	GLU	2.3
47	DP	74	GLU	2.3
1	CA	1394	A	2.3
17	CQ	79	SER	2.3
33	D8	3	LYS	2.3
35	BA	900	A	2.3
35	BA	2171	A	2.3
35	DA	1020	A	2.3
35	DA	2269	A	2.3
36	DB	46	A	2.3
36	DB	57	A	2.3
40	BF	15	SER	2.3
2	AB	22	LYS	2.3
7	AG	133	GLY	2.3
14	AN	22	THR	2.3
43	BI	56	LYS	2.3
47	BP	109	GLY	2.3
47	DP	26	GLY	2.3
56	BY	88	LYS	2.3
57	BZ	78	LYS	2.3
16	CP	75	ARG	2.3
50	BS	100	ALA	2.3
1	AA	387	U	2.3
1	AA	534	U	2.3
1	CA	65	U	2.3
1	CA	1257	U	2.3
4	AD	4	TYR	2.3
7	AG	144	MET	2.3
11	AK	75	TYR	2.3
11	CK	25	TYR	2.3
13	CM	87	TYR	2.3
22	CY	45	U	2.3
35	BA	403	U	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	877	U	2.3
36	DB	74	U	2.3
41	BG	27	ASN	2.3
45	DN	72	TYR	2.3
1	AA	444	C	2.3
1	AA	984	C	2.3
1	AA	1115	C	2.3
1	AA	1118	C	2.3
1	AA	1119	C	2.3
1	AA	1267	C	2.3
1	CA	48	C	2.3
1	CA	187	C	2.3
1	CA	519	C	2.3
1	CA	1208	C	2.3
1	CA	1210	C	2.3
21	CU	5	ASP	2.3
2	AB	158	LEU	2.3
9	CI	96	LEU	2.3
22	CY	74	C	2.3
29	B4	51	ASP	2.3
26	B1	95	LEU	2.3
35	DA	1150	C	2.3
36	DB	47	C	2.3
57	BZ	179	ASP	2.3
39	BE	35	GLN	2.3
47	DP	51	PHE	2.3
49	DR	65	LEU	2.3
5	CE	38	GLN	2.3
5	AE	83	GLU	2.3
5	CE	8	GLU	2.3
7	CG	74	GLU	2.3
1	AA	391	G	2.3
1	AA	471	G	2.3
1	AA	595	G	2.3
1	CA	69	G	2.3
1	CA	524	G	2.3
1	CA	588	G	2.3
1	CA	887	G	2.3
1	CA	929	G	2.3
1	CA	1032	G	2.3
3	AC	99	VAL	2.3
3	AC	120	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
13	AM	17	VAL	2.3
22	CY	65	G	2.3
23	AW	26	G	2.3
35	BA	920	G	2.3
35	BA	1865	G	2.3
35	BA	2192	G	2.3
35	DA	361	G	2.3
35	DA	654(L)	G	2.3
35	DA	848	G	2.3
35	DA	2148	G	2.3
35	DA	2299	G	2.3
36	BB	67	G	2.3
36	DB	67	G	2.3
36	DB	76	G	2.3
42	DH	45	VAL	2.3
51	DT	34	VAL	2.3
57	BZ	128	VAL	2.3
11	CK	127	LYS	2.3
57	DZ	78	LYS	2.3
18	CR	52	PRO	2.3
28	D3	2	PRO	2.3
48	BQ	5	ARG	2.3
3	CC	191	THR	2.3
8	AH	115	SER	2.3
12	AL	22	SER	2.3
25	B0	9	SER	2.3
25	B0	54	GLY	2.3
39	BE	186	GLY	2.3
45	DN	60	ILE	2.3
54	DW	5	ALA	2.3
57	DZ	55	HIS	2.3
14	AN	40	CYS	2.3
34	D9	24	TYR	2.3
4	AD	162	LEU	2.3
10	CJ	8	LEU	2.3
41	BG	19	LEU	2.3
1	AA	1357	A	2.3
1	CA	282	A	2.3
1	CA	915	A	2.3
2	AB	57	PHE	2.3
35	DA	2173	A	2.3
35	DA	2298	A	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	2310	A	2.3
36	DB	13	A	2.3
36	DB	105	A	2.3
56	DY	89	PHE	2.3
8	CH	25	ASP	2.3
1	AA	202	U	2.3
1	AA	480	U	2.3
1	CA	81	U	2.3
1	CA	1070	U	2.3
6	CF	57	GLN	2.3
22	CV	7	U	2.3
35	BA	362	U	2.3
35	DA	907	U	2.3
35	DA	2796	U	2.3
13	CM	8	GLU	2.3
42	BH	86	GLU	2.3
53	DV	23	GLU	2.3
57	BZ	84	GLU	2.3
57	BZ	145	GLU	2.3
1	AA	47	C	2.3
1	AA	67	C	2.3
1	AA	422	C	2.3
1	AA	435	C	2.3
1	CA	1200	C	2.3
1	CA	1314	C	2.3
6	CF	92	LYS	2.3
14	AN	58	LYS	2.3
23	AW	17	C	2.3
35	BA	271(B)	C	2.3
35	BA	272(H)	C	2.3
35	BA	365	C	2.3
35	BA	886	C	2.3
35	DA	271(Z)	C	2.3
35	DA	912	C	2.3
35	DA	1411	C	2.3
36	BB	60	C	2.3
36	DB	84	C	2.3
36	DB	88	C	2.3
42	DH	37	VAL	2.3
47	BP	124	LYS	2.3
50	BS	83	LYS	2.3
9	CI	128	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
11	CK	126	ARG	2.3
14	AN	3	ARG	2.3
16	AP	75	ARG	2.3
19	AS	37	ARG	2.3
47	DP	18	ARG	2.3
6	AF	8	ILE	2.3
9	AI	98	PRO	2.3
11	AK	115	PRO	2.3
13	CM	6	GLY	2.3
16	AP	19	ILE	2.3
43	BI	137	PRO	2.3
57	DZ	57	ILE	2.3
57	DZ	101	PRO	2.3
57	DZ	158	PRO	2.3
21	CU	11	GLY	2.3
48	DQ	15	GLY	2.3
5	CE	86	ALA	2.3
12	AL	128	ALA	2.3
20	AT	67	ALA	2.3
39	DE	1	MET	2.3
9	AI	71	SER	2.3
14	CN	60	SER	2.3
47	DP	133	SER	2.3
33	B8	50	LEU	2.3
33	D8	32	LEU	2.3
42	BH	71	LEU	2.3
1	AA	147	G	2.3
1	AA	1032	G	2.3
1	CA	77	G	2.3
1	CA	570	G	2.3
1	CA	1144	G	2.3
1	CA	1370	G	2.3
9	AI	5	TYR	2.3
18	CR	81	PHE	2.3
23	CW	26	G	2.3
35	BA	1117	G	2.3
35	DA	94(A)	G	2.3
35	DA	530	G	2.3
35	DA	954	G	2.3
35	DA	972	G	2.3
35	DA	1465	G	2.3
35	DA	1479	G	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	1849	G	2.3
35	DA	2115	G	2.3
56	DY	35	TYR	2.3
10	CJ	78	ASN	2.3
12	AL	37	CYS	2.3
50	DS	12	PHE	2.3
12	AL	112	ASP	2.3
13	AM	16	ASP	2.3
34	B9	12	ASP	2.3
50	BS	88	ASP	2.3
4	CD	84	LYS	2.3
14	AN	9	LYS	2.3
43	DI	62	LYS	2.3
45	DN	109	LYS	2.3
47	DP	64	LYS	2.3
57	DZ	46	LYS	2.3
1	AA	51	A	2.3
1	AA	389	A	2.3
4	AD	104	VAL	2.3
5	AE	64	ARG	2.3
12	CL	53	ARG	2.3
12	CL	127	GLU	2.3
13	AM	32	GLU	2.3
19	AS	21	GLU	2.3
19	AS	64	GLU	2.3
35	DA	849	A	2.3
35	DA	2388	A	2.3
35	DA	2753	A	2.3
36	BB	66	A	2.3
41	BG	30	GLU	2.3
42	BH	69	ARG	2.3
47	BP	21	ARG	2.3
47	BP	125	VAL	2.3
48	DQ	80	GLU	2.3
56	DY	49	VAL	2.3
1	AA	437	U	2.3
1	CA	1240	U	2.3
35	BA	12	U	2.3
35	BA	271(N)	U	2.3
35	BA	847	U	2.3
35	BA	2130	U	2.3
35	BA	2291	U	2.3

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Mol	Chain	Res	Type	RSRZ
35	BA	2387	U	2.3
35	DA	1019	U	2.3
13	AM	97	PRO	2.3
27	B2	18	PRO	2.3
29	D4	15	ILE	2.3
42	DH	21	PRO	2.3
3	CC	117	ALA	2.3
3	CC	133	ALA	2.3
4	AD	167	GLY	2.3
11	CK	68	ALA	2.3
13	AM	112	GLY	2.3
14	CN	10	ALA	2.3
15	CO	20	GLY	2.3
19	AS	50	ALA	2.3
39	BE	110	GLY	2.3
1	AA	150	C	2.3
1	AA	508	C	2.3
1	AA	1140	C	2.3
1	AA	1149	C	2.3
1	AA	1277	C	2.3
1	AA	1284	C	2.3
33	B8	25	MET	2.3
35	DA	2527	C	2.3
40	BF	65	TRP	2.3
3	CC	178	LEU	2.3
10	AJ	87	THR	2.3
13	AM	81	LEU	2.3
19	AS	77	THR	2.3
38	BD	25	THR	2.3
43	BI	58	LEU	2.3
42	DH	65	HIS	2.3
47	BP	35	HIS	2.3
50	DS	34	HIS	2.3
5	CE	84	PHE	2.3
7	AG	18	TYR	2.3
48	DQ	29	PHE	2.3
51	DT	32	TYR	2.3
7	AG	84	ASN	2.3
2	AB	76	GLN	2.3
29	B4	39	CYS	2.3
42	BH	62	LYS	2.3
43	BI	139	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
55	DX	50	LYS	2.3
56	BY	28	LYS	2.3
2	CB	137	ARG	2.3
7	AG	76	ARG	2.3
10	CJ	9	ARG	2.3
10	CJ	51	ARG	2.3
21	AU	15	ARG	2.3
57	BZ	10	ARG	2.3
2	AB	15	VAL	2.3
3	AC	173	VAL	2.3
4	CD	198	VAL	2.3
5	CE	90	VAL	2.3
8	CH	73	ASP	2.3
19	AS	13	ASP	2.3
37	DC	56	ASP	2.3
38	BD	71	ASP	2.3
39	BE	59	VAL	2.3
56	DY	98	VAL	2.3
47	BP	52	GLU	2.2
57	DZ	119	GLU	2.2
1	AA	939	G	2.2
1	AA	1174	G	2.2
1	AA	1365	G	2.2
1	AA	1370	G	2.2
1	AA	1386	G	2.2
1	CA	144	G	2.2
1	CA	346	G	2.2
1	CA	485	G	2.2
1	CA	527	G	2.2
1	CA	944	G	2.2
1	CA	1010	G	2.2
22	AV	32	G	2.2
22	AY	47	G	2.2
35	BA	604	G	2.2
35	BA	1122	G	2.2
35	BA	1699	G	2.2
35	DA	81	G	2.2
35	DA	1480	G	2.2
35	DA	2289	G	2.2
4	AD	146	ILE	2.2
33	D8	41	ILE	2.2
2	AB	125	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
3	CC	7	PRO	2.2
4	AD	124	GLY	2.2
7	AG	73	MET	2.2
9	CI	72	GLY	2.2
10	CJ	77	PRO	2.2
47	BP	63	PRO	2.2
47	BP	93	GLY	2.2
47	DP	97	PRO	2.2
48	BQ	4	PRO	2.2
5	CE	17	ALA	2.2
31	B6	22	ALA	2.2
37	BC	27	ALA	2.2
50	DS	86	ALA	2.2
53	BV	101	GLY	2.2
1	AA	986	A	2.2
1	AA	994	A	2.2
1	AA	1170	A	2.2
1	AA	1225	A	2.2
1	AA	1227	A	2.2
1	AA	1251	A	2.2
1	AA	1493	A	2.2
1	CA	82	U	2.2
1	CA	143	A	2.2
1	CA	958	A	2.2
1	CA	1044	A	2.2
1	CA	1092	A	2.2
19	AS	20	LEU	2.2
22	AV	8	U	2.2
22	CY	35	U	2.2
23	AW	57	U	2.2
35	BA	1175	U	2.2
35	BA	1379	A	2.2
35	DA	6	A	2.2
35	DA	913	U	2.2
35	DA	1272	A	2.2
35	DA	1379	A	2.2
35	DA	1494	A	2.2
35	DA	1535	A	2.2
35	DA	2322	A	2.2
35	DA	2689	U	2.2
40	DF	199	TRP	2.2
41	BG	100	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
25	D0	45	PHE	2.2
16	AP	61	SER	2.2
49	DR	6	SER	2.2
55	DX	5	TYR	2.2
55	DX	72	LYS	2.2
1	AA	1066	C	2.2
1	CA	457	C	2.2
1	CA	1007	C	2.2
1	CA	1363	C	2.2
7	AG	4	ARG	2.2
9	CI	66	ARG	2.2
10	AJ	5	ARG	2.2
23	AW	52	C	2.2
35	BA	1147	C	2.2
35	BA	2326	C	2.2
35	DA	888	C	2.2
35	DA	1119	C	2.2
35	DA	1180	C	2.2
35	DA	2275	C	2.2
35	DA	2742	C	2.2
41	BG	98	ARG	2.2
5	CE	20	GLN	2.2
4	AD	26	CYS	2.2
12	AL	66	VAL	2.2
41	DG	28	VAL	2.2
48	DQ	27	VAL	2.2
48	DQ	106	VAL	2.2
4	CD	150	GLU	2.2
9	CI	12	GLU	2.2
12	AL	127	GLU	2.2
25	B0	71	ASP	2.2
43	BI	96	ASP	2.2
53	DV	34	GLU	2.2
57	BZ	178	GLU	2.2
57	DZ	97	GLU	2.2
42	BH	9	ILE	2.2
4	AD	142	PRO	2.2
7	AG	2	ALA	2.2
9	AI	43	ALA	2.2
16	AP	66	PRO	2.2
12	CL	77	LEU	2.2
13	AM	70	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
25	B0	85	ALA	2.2
43	DI	55	ALA	2.2
50	BS	105	ALA	2.2
19	CS	34	TRP	2.2
33	B8	26	LYS	2.2
48	DQ	123	HIS	2.2
50	BS	57	LYS	2.2
56	BY	89	PHE	2.2
1	AA	41	G	2.2
1	AA	216	G	2.2
1	AA	1505	G	2.2
1	CA	409	G	2.2
1	CA	1143	G	2.2
1	CA	1323	G	2.2
1	CA	1331	G	2.2
2	CB	40	HIS	2.2
13	CM	105	THR	2.2
22	AV	47	G	2.2
22	CV	3	G	2.2
35	BA	2141	G	2.2
35	DA	1857	G	2.2
35	DA	2428	G	2.2
35	DA	2792	G	2.2
36	DB	103	G	2.2
47	DP	57	THR	2.2
56	DY	81	LYS	2.2
1	CA	96	U	2.2
1	CA	1065	U	2.2
3	CC	48	TYR	2.2
9	AI	36	TYR	2.2
13	CM	88	ARG	2.2
19	CS	36	ARG	2.2
36	DB	14	U	2.2
36	DB	112	U	2.2
39	DE	199	ARG	2.2
40	BF	18	ARG	2.2
42	BH	164	TYR	2.2
43	DI	61	ARG	2.2
1	AA	477	A	2.2
1	AA	622	A	2.2
1	CA	88	A	2.2
1	CA	937	A	2.2

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Mol	Chain	Res	Type	RSRZ
1	CA	1001	A	2.2
23	CW	14	A	2.2
26	D1	38	SER	2.2
35	BA	2305	A	2.2
35	DA	1156	A	2.2
35	DA	2286	A	2.2
14	AN	56	VAL	2.2
2	CB	146	GLN	2.2
10	CJ	33	GLN	2.2
25	B0	40	GLN	2.2
31	B6	26	ASN	2.2
5	CE	118	ILE	2.2
18	AR	50	ILE	2.2
42	DH	9	ILE	2.2
1	CA	454	C	2.2
1	CA	948	C	2.2
1	CA	1060	C	2.2
1	CA	1145	C	2.2
23	CW	41	C	2.2
35	BA	2480	C	2.2
35	DA	889	C	2.2
35	DA	1548	C	2.2
35	DA	2136	C	2.2
36	BB	65	C	2.2
36	BB	70	C	2.2
36	DB	114	C	2.2
3	CC	155	GLY	2.2
4	AD	196	LEU	2.2
8	AH	127	LEU	2.2
9	CI	21	PRO	2.2
10	CJ	52	GLY	2.2
18	AR	44	LEU	2.2
19	CS	44	MET	2.2
29	B4	12	ALA	2.2
37	DC	182	PRO	2.2
40	BF	12	LEU	2.2
41	BG	171	ALA	2.2
41	DG	69	ALA	2.2
43	BI	49	ALA	2.2
43	BI	101	LEU	2.2
45	BN	24	GLY	2.2
47	DP	10	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
18	AR	84	LYS	2.2
19	AS	55	LYS	2.2
34	B9	33	LYS	2.2
38	DD	264	LYS	2.2
55	BX	33	LYS	2.2
4	AD	209	ARG	2.2
5	CE	14	ARG	2.2
10	CJ	29	ARG	2.2
37	DC	53	ARG	2.2
41	DG	95	ARG	2.2
47	DP	15	ARG	2.2
49	DR	33	ARG	2.2
57	BZ	80	ARG	2.2
7	AG	24	THR	2.2
38	BD	40	THR	2.2
39	DE	166	THR	2.2
47	DP	30	THR	2.2
2	AB	31	TYR	2.2
31	B6	21	TYR	2.2
14	AN	33	VAL	2.2
14	CN	18	VAL	2.2
17	CQ	57	VAL	2.2
40	BF	193	VAL	2.2
57	DZ	96	VAL	2.2
1	AA	170	U	2.2
1	AA	182	U	2.2
1	AA	421	U	2.2
1	AA	1126	U	2.2
1	CA	1301	U	2.2
22	AY	16	U	2.2
35	DA	1012	U	2.2
35	DA	2296	U	2.2
46	DO	5	GLN	2.2
3	CC	202	ILE	2.2
12	AL	7	ILE	2.2
43	BI	51	ILE	2.2
1	AA	28	G	2.2
1	AA	198	G	2.2
1	AA	266	G	2.2
1	AA	428	G	2.2
1	AA	445	G	2.2
1	AA	977	A	2.2

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Mol	Chain	Res	Type	RSRZ
1	AA	1004	A	2.2
1	CA	876	G	2.2
1	CA	963	G	2.2
1	CA	1016	A	2.2
1	CA	1082	G	2.2
1	CA	1361	G	2.2
1	CA	1401	G	2.2
6	CF	31	GLU	2.2
12	AL	49	ASN	2.2
19	AS	17	GLU	2.2
20	CT	9	ASN	2.2
22	AY	66	G	2.2
5	CE	71	LEU	2.2
22	CV	39	A	2.2
22	CY	75	A	2.2
35	BA	363(F)	A	2.2
35	BA	917	A	2.2
35	BA	2153	G	2.2
35	BA	2351	G	2.2
35	DA	830	G	2.2
35	DA	878	A	2.2
35	DA	918	A	2.2
35	DA	960	A	2.2
35	DA	1114	G	2.2
35	DA	1143	A	2.2
35	DA	1527	G	2.2
35	DA	1529	G	2.2
35	DA	2117	A	2.2
35	DA	2525	G	2.2
35	DA	2770	G	2.2
36	BB	58	A	2.2
40	BF	56	GLU	2.2
41	BG	18	GLU	2.2
41	DG	137	GLU	2.2
51	DT	21	GLU	2.2
52	DU	109	LEU	2.2
55	DX	38	GLU	2.2
3	AC	61	ALA	2.2
3	CC	145	GLY	2.2
5	AE	124	GLY	2.2
7	AG	58	PRO	2.2
29	B4	29	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
42	DH	66	GLY	2.2
50	BS	104	GLY	2.2
50	DS	105	ALA	2.2
6	AF	70	ASP	2.2
12	CL	115	LYS	2.2
13	CM	13	LYS	2.2
15	AO	49	ASP	2.2
17	AQ	14	LYS	2.2
34	B9	8	LYS	2.2
37	DC	188	ASP	2.2
39	BE	41	LYS	2.2
41	DG	84	LYS	2.2
3	AC	79	ARG	2.2
9	CI	121	ARG	2.2
10	AJ	47	PHE	2.2
19	AS	78	ARG	2.2
21	AU	9	ARG	2.2
50	BS	15	ARG	2.2
57	BZ	89	PHE	2.2
57	DZ	48	PHE	2.2
1	AA	990	C	2.2
1	AA	999	C	2.2
1	CA	744	C	2.2
35	BA	2139	C	2.2
35	BA	2145	C	2.2
36	BB	17	C	2.2
36	BB	30	C	2.2
36	BB	64	C	2.2
31	D6	23	THR	2.2
33	D8	27	THR	2.2
5	CE	41	VAL	2.2
10	AJ	72	VAL	2.2
12	CL	39	VAL	2.2
12	CL	120	TYR	2.2
19	CS	52	TYR	2.2
29	B4	56	VAL	2.2
41	BG	31	VAL	2.2
43	BI	126	TYR	2.2
45	BN	4	TYR	2.2
47	DP	19	VAL	2.2
54	DW	59	VAL	2.2
34	D9	10	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
42	DH	38	SER	2.2
42	DH	84	SER	2.2
3	CC	43	LEU	2.2
6	AF	79	LEU	2.2
37	BC	186	LEU	2.2
38	BD	33	LEU	2.2
41	BG	82	LEU	2.2
41	DG	94	LEU	2.2
47	BP	105	LEU	2.2
32	D7	1	MET	2.2
2	CB	207	ALA	2.2
9	AI	112	LYS	2.2
12	CL	108	ALA	2.2
37	BC	179	ALA	2.2
39	DE	131	ALA	2.2
42	DH	46	GLU	2.2
43	BI	7	GLU	2.2
47	BP	74	GLU	2.2
10	AJ	41	PRO	2.2
14	AN	50	LYS	2.2
57	BZ	7	ALA	2.2
1	AA	49	U	2.2
1	AA	365	U	2.2
1	CA	1049	U	2.2
1	CA	1125	U	2.2
1	CA	1148	U	2.2
1	CA	1302	U	2.2
16	AP	78	GLY	2.2
22	CY	62	U	2.2
23	CW	12	U	2.2
35	BA	1033	U	2.2
40	BF	16	GLY	2.2
42	DH	82	GLY	2.2
4	AD	35	ARG	2.2
14	AN	19	ARG	2.2
50	BS	89	ARG	2.2
15	CO	18	PHE	2.2
16	CP	47	ASP	2.2
25	D0	60	PHE	2.2
1	AA	160	A	2.2
1	CA	1318	A	2.2
22	CY	23	A	2.2

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Mol	Chain	Res	Type	RSRZ
35	BA	547	A	2.2
35	BA	1496	A	2.2
35	BA	1762	A	2.2
35	BA	2135	A	2.2
35	DA	866	A	2.2
35	DA	1010	A	2.2
35	DA	1762	A	2.2
1	AA	324	G	2.2
1	AA	502	G	2.2
1	AA	1222	G	2.2
1	CA	21	G	2.2
1	CA	438	G	2.2
1	CA	473	G	2.2
22	AY	49	G	2.2
35	BA	271(R)	G	2.2
35	BA	864	G	2.2
35	BA	2365	G	2.2
35	DA	1036	G	2.2
35	DA	1107	G	2.2
35	DA	1984	G	2.2
35	DA	2290	G	2.2
35	DA	2315	G	2.2
35	DA	2339	G	2.2
35	DA	2349	G	2.2
2	CB	229	VAL	2.1
17	CQ	19	VAL	2.1
40	DF	6	VAL	2.1
50	DS	69	VAL	2.1
1	AA	267	C	2.1
1	AA	511	C	2.1
1	AA	518	C	2.1
1	AA	931	C	2.1
1	AA	1147	C	2.1
1	AA	1321	C	2.1
1	AA	1437	C	2.1
1	CA	999	C	2.1
1	CA	1270	C	2.1
16	CP	19	ILE	2.1
20	AT	63	ILE	2.1
22	AY	67	C	2.1
22	CY	50	C	2.1
35	BA	908	C	2.1

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Mol	Chain	Res	Type	RSRZ
35	BA	2374	C	2.1
35	BA	2385	C	2.1
35	DA	998	C	2.1
35	DA	1408	C	2.1
35	DA	2145	C	2.1
36	BB	92	C	2.1
36	DB	17	C	2.1
42	DH	136	ILE	2.1
43	BI	71	ILE	2.1
47	BP	114	ILE	2.1
4	AD	45	GLN	2.1
16	CP	73	LEU	2.1
27	D2	35	LEU	2.1
28	D3	19	GLN	2.1
57	BZ	59	LEU	2.1
2	AB	8	LYS	2.1
7	AG	98	SER	2.1
19	AS	7	LYS	2.1
19	CS	55	LYS	2.1
29	B4	37	SER	2.1
34	B9	2	LYS	2.1
37	BC	3	LYS	2.1
41	DG	74	LYS	2.1
48	DQ	54	MET	2.1
56	DY	101	LYS	2.1
4	AD	150	GLU	2.1
15	CO	73	GLU	2.1
16	CP	54	GLU	2.1
20	CT	95	ALA	2.1
40	DF	130	ALA	2.1
56	BY	78	ALA	2.1
57	DZ	142	SER	2.1
3	CC	109	PRO	2.1
5	AE	14	ARG	2.1
7	CG	76	ARG	2.1
10	CJ	39	PRO	2.1
10	CJ	43	ARG	2.1
10	CJ	66	ARG	2.1
12	AL	71	PRO	2.1
13	AM	41	PRO	2.1
18	CR	54	ARG	2.1
29	D4	3	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
33	B8	56	GLU	2.1
25	B0	13	GLY	2.1
26	B1	26	ARG	2.1
30	D5	34	PRO	2.1
33	D8	45	GLY	2.1
39	BE	62	PRO	2.1
42	BH	59	ARG	2.1
42	DH	78	GLY	2.1
48	BQ	62	GLY	2.1
48	BQ	88	GLY	2.1
51	BT	51	ARG	2.1
52	BU	118	GLY	2.1
57	BZ	34	ASN	2.1
57	BZ	68	PRO	2.1
57	DZ	167	PRO	2.1
7	CG	62	PHE	2.1
25	D0	57	PHE	2.1
38	BD	269	PHE	2.1
1	AA	343	U	2.1
1	CA	24	U	2.1
7	CG	140	ASP	2.1
22	AV	7	U	2.1
35	BA	858	U	2.1
35	DA	90	U	2.1
35	DA	1023	U	2.1
3	CC	55	VAL	2.1
5	CE	100	VAL	2.1
5	CE	115	VAL	2.1
9	AI	28	VAL	2.1
16	AP	79	VAL	2.1
33	D8	49	VAL	2.1
45	DN	42	TRP	2.1
38	DD	96	HIS	2.1
50	DS	98	VAL	2.1
56	BY	42	VAL	2.1
57	BZ	165	VAL	2.1
29	D4	27	THR	2.1
43	BI	108	THR	2.1
49	BR	35	THR	2.1
1	AA	263	A	2.1
1	AA	487	A	2.1
1	CA	790	A	2.1

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Mol	Chain	Res	Type	RSRZ
1	CA	1408	A	2.1
13	AM	39	ILE	2.1
35	BA	1027	A	2.1
35	BA	1916	A	2.1
35	BA	2801(A)	A	2.1
35	DA	2378	A	2.1
35	DA	2860	A	2.1
45	DN	71	ILE	2.1
2	AB	44	LEU	2.1
4	AD	11	LEU	2.1
4	CD	194	LEU	2.1
7	AG	99	LEU	2.1
9	CI	79	LEU	2.1
20	AT	13	LEU	2.1
20	AT	62	LEU	2.1
31	D6	33	LYS	2.1
39	DE	64	LYS	2.1
43	DI	12	LEU	2.1
51	BT	8	LYS	2.1
1	AA	29	G	2.1
1	AA	138	G	2.1
1	AA	159	G	2.1
1	AA	380	G	2.1
1	AA	1127	G	2.1
1	AA	1164	G	2.1
1	AA	1273	G	2.1
1	CA	529	G	2.1
1	CA	1104	G	2.1
1	CA	1184	G	2.1
1	CA	1385	G	2.1
2	CB	36	ARG	2.1
2	CB	64	ARG	2.1
3	AC	37	GLN	2.1
4	CD	49	ARG	2.1
22	CY	10	G	2.1
23	AW	66	G	2.1
35	DA	226	G	2.1
35	DA	1120	G	2.1
35	DA	1187	G	2.1
36	BB	115	G	2.1
36	DB	24	G	2.1
12	CL	56	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
39	DE	164	ARG	2.1
41	DG	169	ALA	2.1
43	BI	59	ALA	2.1
45	BN	102	ALA	2.1
2	AB	86	GLU	2.1
1	AA	1203	C	2.1
1	AA	1243	C	2.1
1	CA	1116	C	2.1
1	CA	1192	C	2.1
4	AD	7	PRO	2.1
7	CG	112	PRO	2.1
9	AI	80	GLY	2.1
10	AJ	37	PRO	2.1
17	CQ	99	SER	2.1
21	AU	23	PRO	2.1
42	DH	135	GLY	2.1
56	DY	29	GLU	2.1
23	CW	17	C	2.1
35	BA	889	C	2.1
35	BA	1179	C	2.1
35	BA	1467	C	2.1
35	DA	334	C	2.1
35	DA	2324	C	2.1
40	DF	202	PHE	2.1
56	DY	43	ASN	2.1
2	AB	136	VAL	2.1
4	AD	170	VAL	2.1
9	CI	108	VAL	2.1
10	AJ	73	ASP	2.1
12	CL	55	VAL	2.1
14	CN	56	VAL	2.1
29	B4	10	VAL	2.1
43	DI	92	VAL	2.1
43	DI	144	VAL	2.1
57	DZ	175	VAL	2.1
10	AJ	68	HIS	2.1
1	AA	950	U	2.1
1	AA	960	U	2.1
1	CA	820	U	2.1
1	CA	1219	U	2.1
1	CA	1313	U	2.1
2	CB	68	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
3	CC	135	LYS	2.1
5	CE	13	ILE	2.1
9	CI	81	ILE	2.1
13	CM	116	THR	2.1
14	CN	15	LYS	2.1
15	CO	56	LEU	2.1
16	AP	6	LEU	2.1
21	AU	13	ILE	2.1
21	CU	13	ILE	2.1
22	CV	56	U	2.1
31	B6	10	LEU	2.1
35	DA	858	U	2.1
35	DA	2118	U	2.1
36	BB	41	U	2.1
36	DB	8	U	2.1
41	BG	3	LEU	2.1
41	BG	63	ILE	2.1
42	DH	85	LYS	2.1
48	DQ	127	ILE	2.1
51	DT	68	TYR	2.1
51	DT	98	LYS	2.1
53	DV	35	LEU	2.1
55	DX	37	THR	2.1
57	BZ	170	THR	2.1
48	BQ	9	TYR	2.1
9	CI	120	ARG	2.1
13	AM	114	ARG	2.1
16	AP	25	ARG	2.1
33	D8	25	MET	2.1
41	BG	170	ARG	2.1
51	BT	3	ARG	2.1
3	AC	28	GLN	2.1
20	CT	66	ALA	2.1
20	CT	97	ALA	2.1
40	BF	5	ALA	2.1
40	DF	5	ALA	2.1
50	BS	79	ALA	2.1
1	AA	1183	A	2.1
1	AA	1324	A	2.1
1	CA	767	A	2.1
1	CA	860	A	2.1
2	CB	141	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	AC	7	PRO	2.1
12	AL	125	PRO	2.1
15	AO	26	GLU	2.1
17	AQ	61	GLU	2.1
17	CQ	61	GLU	2.1
24	AX	23	A	2.1
25	B0	68	GLU	2.1
35	BA	1847	A	2.1
35	DA	2266	A	2.1
36	DB	59	A	2.1
39	BE	56	PRO	2.1
41	BG	32	PRO	2.1
43	BI	125	GLU	2.1
46	BO	68	GLU	2.1
48	BQ	139	GLU	2.1
56	DY	77	PRO	2.1
29	D4	42	PHE	2.1
37	DC	55	SER	2.1
37	DC	193	PHE	2.1
42	BH	155	SER	2.1
13	CM	106	ASN	2.1
42	BH	74	ASN	2.1
1	AA	230	G	2.1
1	AA	500	G	2.1
1	AA	928	G	2.1
1	AA	1036	G	2.1
1	AA	1084	G	2.1
1	AA	1231	G	2.1
1	AA	1323	G	2.1
1	AA	1482	G	2.1
1	CA	691	G	2.1
1	CA	734	G	2.1
1	CA	1087	G	2.1
1	CA	1178	G	2.1
4	AD	148	VAL	2.1
17	AQ	77	VAL	2.1
23	CW	49	G	2.1
25	D0	79	VAL	2.1
29	D4	10	VAL	2.1
35	BA	281	G	2.1
35	BA	2341	G	2.1
35	BA	2353	G	2.1

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Mol	Chain	Res	Type	RSRZ
35	DA	1115	G	2.1
35	DA	1581	G	2.1
35	DA	2123	G	2.1
35	DA	2321	G	2.1
35	DA	2468	G	2.1
36	BB	118	G	2.1
36	DB	115	G	2.1
55	DX	81	VAL	2.1
56	DY	30	VAL	2.1
57	BZ	58	VAL	2.1
57	BZ	126	VAL	2.1
1	AA	43	C	2.1
1	AA	479	C	2.1
1	AA	504	C	2.1
1	AA	1208	C	2.1
1	CA	71	C	2.1
1	CA	1043	C	2.1
22	CY	64	C	2.1
35	BA	1004	C	2.1
35	DA	2326	C	2.1
35	DA	2347	C	2.1
35	DA	2499	C	2.1
36	BB	84	C	2.1
36	DB	79	C	2.1
2	AB	40	HIS	2.1
2	CB	132	LYS	2.1
5	CE	121	LYS	2.1
17	CQ	14	LYS	2.1
17	CQ	41	LYS	2.1
48	DQ	76	LYS	2.1
52	DU	56	ASP	2.1
53	BV	24	LYS	2.1
41	DG	90	LEU	2.1
42	DH	72	ILE	2.1
43	DI	75	LEU	2.1
2	CB	67	THR	2.1
12	CL	42	THR	2.1
41	DG	16	ARG	2.1
41	DG	12	TYR	2.1
45	DN	43	THR	2.1
47	BP	57	THR	2.1
50	BS	97	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
56	DY	2	ARG	2.1
57	DZ	10	ARG	2.1
17	AQ	15	MET	2.1
34	D9	5	ALA	2.1
42	DH	165	ALA	2.1
50	BS	66	ALA	2.1
1	AA	551	U	2.1
23	AW	62	U	2.1
23	CW	56	U	2.1
35	BA	2150	U	2.1
35	BA	2189	U	2.1
36	BB	14	U	2.1
16	AP	10	GLY	2.1
51	BT	25	GLY	2.1
5	AE	28	PHE	2.1
5	AE	50	GLU	2.1
5	CE	26	PHE	2.1
5	CE	45	PHE	2.1
5	CE	93	PRO	2.1
9	AI	2	GLU	2.1
9	AI	18	PHE	2.1
10	AJ	83	GLU	2.1
17	AQ	28	PRO	2.1
25	B0	47	PRO	2.1
39	DE	51	PHE	2.1
45	BN	19	GLU	2.1
47	BP	10	PRO	2.1
48	BQ	48	GLU	2.1
55	BX	38	GLU	2.1
26	D1	86	SER	2.1
43	DI	102	SER	2.1
8	CH	129	VAL	2.1
12	AL	11	VAL	2.1
53	BV	22	VAL	2.1
1	AA	794	A	2.1
1	AA	1015	A	2.1
1	AA	1179	A	2.1
1	CA	1275	A	2.1
1	CA	1279	A	2.1
22	AY	24	A	2.1
23	AW	29	A	2.1
24	AX	18	A	2.1

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Mol	Chain	Res	Type	RSRZ
26	B1	16	ASN	2.1
35	BA	2518	A	2.1
35	DA	1496	A	2.1
36	BB	73	A	2.1
48	BQ	8	LYS	2.1
50	BS	59	LYS	2.1
52	DU	51	LYS	2.1
2	CB	185	ILE	2.1
2	CB	222	ILE	2.1
9	AI	96	LEU	2.1
12	CL	86	ARG	2.1
16	AP	36	ILE	2.1
20	AT	83	ARG	2.1
26	D1	50	ARG	2.1
27	B2	69	ARG	2.1
28	D3	37	LEU	2.1
38	DD	217	ARG	2.1
52	BU	59	ARG	2.1
57	DZ	155	LEU	2.1
4	AD	165	MET	2.1
6	AF	67	MET	2.1
25	B0	15	ASP	2.1
25	D0	15	ASP	2.1
52	DU	97	ASP	2.1
29	B4	36	CYS	2.1
48	DQ	74	TYR	2.1
55	BX	45	THR	2.1
57	BZ	28	MET	2.1
12	CL	69	TYR	2.1
46	DO	7	TYR	2.1
47	BP	110	TYR	2.1
1	AA	369	C	2.1
1	CA	63	C	2.1
1	CA	169	C	2.1
1	CA	796	C	2.1
1	CA	1037	C	2.1
1	AA	492	G	2.1
1	AA	570	G	2.1
1	AA	1182	G	2.1
1	CA	416	G	2.1
1	CA	577	G	2.1
1	CA	1064	G	2.1

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Mol	Chain	Res	Type	RSRZ
1	CA	1241	G	2.1
1	CA	1305	G	2.1
2	CB	13	ALA	2.1
9	CI	119	ALA	2.1
12	AL	68	ALA	2.1
12	CL	26	ALA	2.1
13	CM	33	ALA	2.1
22	CV	64	C	2.1
27	D2	13	ALA	2.1
35	BA	545	C	2.1
35	BA	897	C	2.1
35	BA	1504	C	2.1
35	BA	2108	C	2.1
35	DA	34	C	2.1
35	DA	2466	C	2.1
35	DA	2480	C	2.1
35	DA	2571	C	2.1
35	DA	2586	C	2.1
35	DA	2799	C	2.1
35	DA	2885	C	2.1
22	CV	66	G	2.1
35	BA	530	G	2.1
35	BA	1459	G	2.1
35	BA	2290	G	2.1
35	DA	956	G	2.1
35	DA	1418	G	2.1
35	DA	2330	G	2.1
35	DA	2686	G	2.1
36	BB	19	G	2.1
36	DB	23	G	2.1
15	AO	62	GLN	2.1
26	D1	28	GLY	2.1
45	DN	133	GLN	2.1
47	BP	37	GLY	2.1
4	AD	185	PHE	2.1
4	AD	192	GLU	2.1
8	CH	42	GLU	2.1
9	AI	110	GLU	2.1
14	CN	14	PRO	2.1
14	CN	37	PHE	2.1
19	CS	42	PRO	2.1
28	B3	60	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
33	D8	54	GLU	2.1
39	DE	15	PHE	2.1
42	BH	124	GLU	2.1
53	BV	53	GLU	2.1
1	AA	641	U	2.0
1	AA	981	U	2.0
7	CG	35	LYS	2.0
22	CV	22	U	2.0
35	BA	895	U	2.0
35	BA	1911	U	2.0
35	BA	2897	U	2.0
35	DA	1497	U	2.0
36	BB	74	U	2.0
50	BS	14	VAL	2.0
50	BS	85	VAL	2.0
50	DS	44	LYS	2.0
50	DS	62	LYS	2.0
53	DV	57	VAL	2.0
11	AK	53	SER	2.0
17	AQ	99	SER	2.0
2	CB	162	ILE	2.0
3	CC	39	ILE	2.0
7	AG	37	ASN	2.0
10	CJ	82	ILE	2.0
12	CL	8	ASN	2.0
13	AM	91	ARG	2.0
13	CM	80	ARG	2.0
19	AS	30	LEU	2.0
25	D0	74	ARG	2.0
38	DD	271	ILE	2.0
43	BI	77	LEU	2.0
47	DP	62	LEU	2.0
48	DQ	37	LEU	2.0
4	AD	33	MET	2.0
4	AD	43	HIS	2.0
1	AA	509	A	2.0
1	AA	1044	A	2.0
1	AA	1531	A	2.0
1	CA	1093	A	2.0
2	AB	148	TYR	2.0
8	AH	4	ASP	2.0
20	CT	64	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
24	CX	23	A	2.0
35	DA	2572	A	2.0
29	D4	36	CYS	2.0
30	D5	38	ALA	2.0
35	BA	1189	A	2.0
35	BA	2388	A	2.0
39	DE	70	ALA	2.0
39	DE	127	ASP	2.0
39	DE	146	THR	2.0
48	DQ	138	ASP	2.0
57	BZ	93	ASP	2.0
57	DZ	29	TYR	2.0
5	CE	99	GLY	2.0
11	AK	104	GLN	2.0
12	CL	9	GLN	2.0
20	AT	69	GLY	2.0
29	B4	46	GLN	2.0
40	BF	85	GLY	2.0
48	BQ	122	GLY	2.0
40	DF	81	PRO	2.0
1	CA	1006	C	2.0
1	CA	1244	C	2.0
4	AD	18	LYS	2.0
4	AD	81	GLU	2.0
8	AH	123	GLU	2.0
10	CJ	7	LYS	2.0
13	AM	61	GLU	2.0
30	D5	13	LYS	2.0
31	D6	12	GLU	2.0
38	BD	148	GLU	2.0
40	BF	127	GLU	2.0
41	BG	143	GLU	2.0
1	AA	189(A)	C	2.0
1	AA	507	C	2.0
1	AA	1018	C	2.0
1	AA	1244	C	2.0
1	CA	150	C	2.0
1	CA	201	C	2.0
9	CI	65	VAL	2.0
22	AY	77	C	2.0
35	BA	271(G)	C	2.0
35	BA	654(P)	C	2.0

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Mol	Chain	Res	Type	RSRZ
35	BA	2364	C	2.0
35	BA	2381	C	2.0
35	DA	857	C	2.0
35	DA	964	C	2.0
35	DA	986	C	2.0
35	DA	2301	C	2.0
35	DA	2474	C	2.0
35	DA	2483	C	2.0
36	DB	65	C	2.0
36	DB	92	C	2.0
42	BH	43	VAL	2.0
57	BZ	111	VAL	2.0
57	DZ	180	VAL	2.0
1	AA	6	G	2.0
1	AA	402	G	2.0
1	AA	727	G	2.0
1	AA	1186	G	2.0
1	CA	281	G	2.0
1	CA	836	G	2.0
2	CB	69	LEU	2.0
4	AD	36	ARG	2.0
4	CD	25	ARG	2.0
7	AG	115	ARG	2.0
18	CR	66	LEU	2.0
18	CR	79	LEU	2.0
19	CS	37	ARG	2.0
20	AT	53	LEU	2.0
23	AW	55	G	2.0
23	AW	69	G	2.0
23	CW	54	G	2.0
25	B0	11	ARG	2.0
25	B0	77	ARG	2.0
35	BA	102	G	2.0
35	BA	361	G	2.0
35	BA	1139	G	2.0
35	BA	1581	G	2.0
35	BA	2354	G	2.0
35	DA	962	G	2.0
35	DA	1031	G	2.0
35	DA	2365	G	2.0
35	DA	2373	G	2.0
35	DA	2379	G	2.0

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Mol	Chain	Res	Type	RSRZ
36	DB	99	G	2.0
38	BD	111	LEU	2.0
50	DS	56	LEU	2.0
3	CC	57	ILE	2.0
26	D1	58	ILE	2.0
1	AA	62	U	2.0
1	AA	957	U	2.0
1	AA	992	U	2.0
1	AA	1341	U	2.0
3	CC	3	ASN	2.0
22	CV	53	U	2.0
35	DA	2585	U	2.0
3	AC	31	HIS	2.0
7	AG	153	HIS	2.0
42	BH	111	HIS	2.0
3	CC	53	ALA	2.0
5	CE	104	ALA	2.0
6	AF	35	ALA	2.0
13	CM	72	ALA	2.0
13	CM	103	THR	2.0
16	AP	77	ALA	2.0
40	DF	113	ALA	2.0
57	BZ	69	THR	2.0
57	BZ	107	THR	2.0
57	BZ	172	ALA	2.0
57	DZ	164	ALA	2.0
4	CD	134	ASP	2.0
19	CS	13	ASP	2.0
2	AB	70	PHE	2.0
3	AC	197	GLY	2.0
8	CH	44	PHE	2.0
8	CH	131	GLY	2.0
47	BP	20	GLY	2.0
52	DU	32	PHE	2.0
5	CE	49	PRO	2.0
12	AL	57	LYS	2.0
16	AP	43	LYS	2.0
17	AQ	64	PRO	2.0
28	B3	2	PRO	2.0
29	D4	11	PRO	2.0
37	BC	178	LYS	2.0
39	BE	64	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
43	BI	54	GLN	2.0
50	BS	19	LYS	2.0
56	BY	77	PRO	2.0
57	BZ	177	PRO	2.0
1	AA	143	A	2.0
1	AA	356	A	2.0
1	AA	1110	A	2.0
4	CD	73	ARG	2.0
4	CD	178	VAL	2.0
7	AG	23	VAL	2.0
18	CR	37	VAL	2.0
23	AW	14	A	2.0
24	CX	24	A	2.0
25	B0	63	VAL	2.0
35	BA	1507	A	2.0
35	BA	2733	A	2.0
35	BA	2753	A	2.0
35	DA	2274	A	2.0
40	BF	179	GLU	2.0
51	DT	73	GLU	2.0
46	BO	49	ARG	2.0
50	DS	17	ARG	2.0
55	DX	68	ARG	2.0
56	BY	27	VAL	2.0
9	AI	79	LEU	2.0
9	CI	56	LEU	2.0
48	DQ	17	LEU	2.0
2	CB	208	ILE	2.0
10	AJ	74	ILE	2.0
11	AK	29	ILE	2.0
38	DD	65	ILE	2.0
53	DV	99	ILE	2.0
1	AA	1145	C	2.0
1	CA	189(C)	C	2.0
1	CA	1149	C	2.0
1	CA	1352	C	2.0
22	CV	17	C	2.0
22	CY	5	C	2.0
22	CY	72	C	2.0
35	BA	2295	C	2.0
35	BA	2667	C	2.0
35	DA	1582	C	2.0

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Mol	Chain	Res	Type	RSRZ
35	DA	2108	C	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
22	AG9	CY	36	28/29	0.72	0.30	33,49,70,70	0
22	AG9	CV	36	28/29	0.82	0.22	33,49,70,70	0
22	AG9	AY	36	28/29	0.86	0.20	43,59,79,79	0
22	AG9	AV	36	28/29	0.91	0.13	43,59,79,79	0

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	ZN	AD	1000	1/1	0.82	0.19	165,165,165,165	0
58	ZN	CD	1000	1/1	0.86	0.22	200,200,200,200	0
58	ZN	AN	1000	1/1	0.96	0.12	88,88,88,88	0
58	ZN	CN	1000	1/1	0.96	0.07	178,178,178,178	0

6.5 Other polymers (i)

There are no such residues in this entry.