Full wwPDB X-ray Structure Validation Report (i)

Mar 20, 2026 – 03:15 PM UTC

PDB ID	:	4V7R / pdb_00004v7r
Title	:	Yeast 80S ribosome.
Authors	:	Ben-Shem, A.; Jenner, L.; Yusupova, G.; Yusupov, M.
Deposited on	:	2010-07-23
Resolution	:	4.00 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:

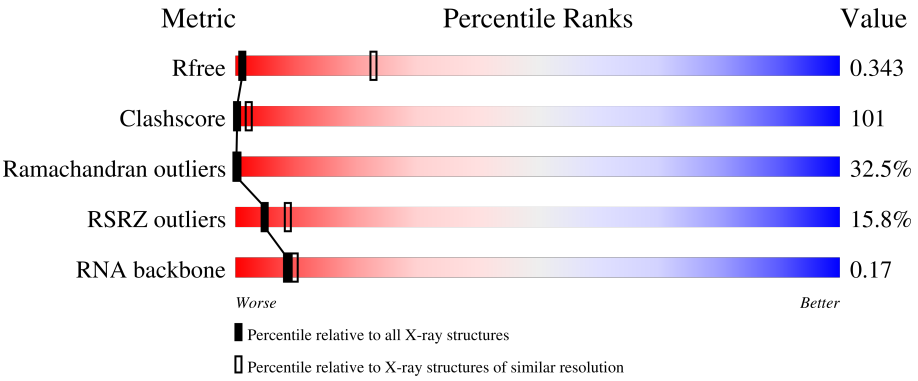
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1082 (4.20-3.80)
Clashscore	190562	1129 (4.20-3.80)
Ramachandran outliers	187476	1064 (4.20-3.80)
RSRZ outliers	180081	1082 (4.20-3.80)
RNA backbone	3983	1017 (4.84-3.10)

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	A1	1800	8% · 41% 55% ·
1	C1	1800	8% · 42% 55% ·
2	AA	252	20% 19% 47% 17% · 13%
2	CA	252	17% 19% 46% 19% · 13%
3	AB	254	14% 23% 37% 22% · 14%

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Mol	Chain	Length	Quality of chain
3	CB	254	16% 24% 35% 23% 14%
4	AC	240	15% 25% 32% 20% 21%
4	CC	240	11% 25% 34% 20% 21%
5	AD	225	15% 21% 30% 24% 25%
5	CD	225	20% 17% 34% 24% 25%
6	AE	197	15% 18% 44% 17% 20%
6	CE	197	15% 17% 42% 20% 20%
7	AF	156	12% 22% 17% 10% 51%
7	CF	156	19% 22% 17% 9% 51%
8	AG	151	15% 22% 38% 15% 23%
8	CG	151	17% 23% 40% 13% 23%
9	AH	137	28% 30% 43% 20% 7%
9	CH	137	26% 29% 43% 20% 7%
10	AI	142	21% 28% 35% 19% 15%
10	CI	142	30% 27% 35% 21% 15%
11	AJ	143	22% 29% 43% 20% 6%
11	CJ	143	25% 29% 45% 19% 6%
12	AK	136	8% 12% 26% 10% 51%
12	CK	136	21% 17% 23% 9% 51%
13	AL	146	19% 24% 36% 21% 18%
13	CL	146	16% 27% 36% 18% 18%
14	AM	144	11% 20% 35% 17% 26%
14	CM	144	15% 17% 39% 17% 26%
15	AN	121	32% 28% 42% 21% 8%
15	CN	121	25% 30% 42% 19% 8%

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Mol	Chain	Length	Quality of chain
16	AO	130	15% 28% 48% 19%
16	CO	130	15% 29% 47% 19%
17	AP	145	18% 21% 34% 23% 20%
17	CP	145	16% 20% 38% 20% 20%
18	AQ	108	10% 31% 26% 5% 38%
18	CQ	108	23% 30% 21% 6% 42%
19	AR	67	16% 33% 27% 10% 30%
19	CR	67	21% 34% 24% 12% 30%
20	AS	56	20% 16% 32% 21% 30%
20	CS	56	7% 16% 30% 23% 30%
21	AT	319	24% 48% 38% 12%
21	CT	319	28% 47% 39% 12%
22	Aa	20	55% 45%
22	Bo	20	45% 55%
22	Ca	20	40% 60%
23	Ab	105	57% 43%
23	Cb	105	43% 56%
24	Ac	93	34% 65%
24	Cc	93	45% 55%
25	Ad	35	29% 71%
25	Cd	35	31% 69%
26	Ae	21	29% 71%
26	Bj	21	52% 48%
26	Dj	21	62% 38%
27	Af	11	64% 36%

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Mol	Chain	Length	Quality of chain
28	Ah	41	39% 61%
28	Ch	41	24% 76%
29	B1	3396	5% 41% 50% 6%
29	D1	3396	7% 41% 49% 6%
30	B2	121	7% 42% 57%
30	D2	121	9% 44% 55%
31	B3	158	6% 46% 49%
31	D3	158	10% 48% 49%
32	BA	217	18% 50% 39% 8%
32	DA	217	20% 57% 33% 8%
33	BB	254	28% 29% 38% 23% 8%
33	DB	254	31% 27% 38% 25% 8%
34	BC	387	20% 18% 40% 33% 6%
34	DC	387	17% 18% 41% 31% 6%
35	BD	362	12% 22% 35% 16% 26%
35	DD	362	18% 22% 35% 16% 26%
36	BE	297	28% 19% 48% 26%
36	DE	297	22% 19% 48% 27%
37	BF	176	22% 19% 41% 36%
37	DF	176	26% 16% 46% 35%
38	BG	244	8% 24% 39% 22% 12%
38	DG	244	6% 21% 41% 23% 12%
39	BH	256	16% 23% 29% 15% 32%
39	DH	256	18% 27% 27% 14% 32%
40	BI	191	20% 34% 42% 23%

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Mol	Chain	Length	Quality of chain
40	DI	191	6% 36% 39% 24%
41	BJ	221	25% 26% 41% 26% 6%
41	DJ	221	19% 26% 43% 23% 6%
42	BK	174	26% 21% 42% 30% 5%
42	DK	174	24% 22% 41% 31% 5%
43	BN	138	21% 17% 38% 31% 13%
43	DN	138	15% 14% 36% 36% 13%
44	BO	204	24% 28% 39% 22% 8%
44	DO	204	35% 33% 37% 20% 8%
45	BP	199	9% 21% 48% 26%
45	DP	199	7% 20% 49% 23% 7%
46	BQ	184	12% 24% 39% 19% 16%
46	DQ	184	17% 21% 41% 20% 16%
47	BR	186	11% 16% 34% 23% 23%
47	DR	186	20% 22% 34% 16% 5% 23%
48	BS	189	22% 49% 40% 11%
48	DS	189	31% 44% 45% 11%
49	BT	160	17% 21% 30% 23% 26%
49	DT	160	15% 21% 32% 21% 26%
50	BU	137	17% 40% 38% 15% 6%
50	DU	137	9% 38% 35% 20% 6%
51	BV	155	9% 7% 18% 13% 62%
51	DV	155	4% 10% 15% 13% 62%
52	BW	142	18% 22% 30% 13% 34%
52	DW	142	17% 20% 31% 13% 34%

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Mol	Chain	Length	Quality of chain
53	BX	127	13% 30% 39% 14% 16%
53	DX	127	17% 31% 38% 14% 16%
54	BY	149	30% 24% 42% 28% 5%
54	DY	149	32% 24% 42% 30%
55	BZ	105	15% 44% 34% 15% 7%
55	DZ	105	17% 45% 36% 12% 7%
56	Ba	113	17% 19% 37% 19% 24%
56	Da	113	22% 16% 39% 21% 24%
57	Bb	130	17% 21% 43% 27% 5%
57	Db	130	21% 20% 44% 27% 5%
58	Bc	120	8% 21% 22% 12% 43%
58	Dc	120	7% 23% 23% 8% 43%
59	Bd	88	25% 16% 36% 28% 18%
59	Dd	88	27% 16% 36% 30% 18%
60	Be	51	20% 35% 37% 22% 6%
60	De	51	25% 29% 45% 20% 6%
61	Bf	106	26% 43% 25% 19% 10%
61	Df	106	38% 37% 35% 17% 10%
62	Bg	92	21% 18% 51% 21% 10%
62	Dg	92	21% 24% 42% 23% 10%
63	Bh	44	32% 68%
63	Dh	44	30% 70%
64	Bi	12	58% 42%
64	Di	12	50% 50%
65	Bk	16	19% 81%

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Mol	Chain	Length	Quality of chain
65	Dk	16	19% 81%
66	Bl	19	53% 47%
67	Bm	9	11% 89%
68	Bn	27	56% 44%
69	Bp	8	50% 50%
70	Bq	17	18% 82%
71	Br	23	26% 74%
72	DL	165	16% 29% 39% 15% 16%
73	DM	312	7% 14% 18% 10% 58%

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
74	OHX	A1	1901	-	-	X	-
74	OHX	A1	1910	-	-	X	-
74	OHX	A1	1913	-	-	X	-
74	OHX	A1	1915	-	-	X	-
74	OHX	A1	1916	-	-	X	-
74	OHX	A1	1917	-	-	X	-
74	OHX	A1	1931	-	-	X	-
74	OHX	A1	1943	-	-	X	-
74	OHX	A1	1949	-	-	X	-
74	OHX	A1	1953	-	-	-	X
74	OHX	A1	1966	-	-	-	X
74	OHX	A1	1974	-	-	-	X
74	OHX	A1	1975	-	-	X	-
74	OHX	A1	1976	-	-	X	-
74	OHX	A1	1978	-	-	-	X
74	OHX	A1	1983	-	-	-	X
74	OHX	A1	1986	-	-	X	-
74	OHX	A1	1988	-	-	-	X
74	OHX	A1	1993	-	-	-	X
74	OHX	A1	1995	-	-	-	X
74	OHX	A1	1996	-	-	-	X
74	OHX	A1	1998	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	AS	101	-	-	X	-
74	OHX	B1	3428	-	-	X	-
74	OHX	B1	3438	-	-	X	-
74	OHX	B1	3449	-	-	X	-
74	OHX	B1	3450	-	-	X	-
74	OHX	B1	3479	-	-	X	-
74	OHX	B1	3492	-	-	X	-
74	OHX	B1	3505	-	-	X	-
74	OHX	B1	3515	-	-	-	X
74	OHX	B1	3529	-	-	X	-
74	OHX	B1	3533	-	-	-	X
74	OHX	B1	3536	-	-	X	-
74	OHX	B1	3537	-	-	X	-
74	OHX	B1	3542	-	-	-	X
74	OHX	B1	3545	-	-	-	X
74	OHX	B1	3548	-	-	-	X
74	OHX	B1	3551	-	-	-	X
74	OHX	B1	3554	-	-	-	X
74	OHX	B1	3555	-	-	-	X
74	OHX	B1	3558	-	-	X	-
74	OHX	B1	3563	-	-	X	-
74	OHX	B1	3567	-	-	X	-
74	OHX	B1	3577	-	-	-	X
74	OHX	B1	3581	-	-	X	-
74	OHX	B1	3584	-	-	-	X
74	OHX	B1	3587	-	-	X	-
74	OHX	B1	3589	-	-	-	X
74	OHX	B1	3592	-	-	-	X
74	OHX	B1	3599	-	-	X	-
74	OHX	B1	3602	-	-	-	X
74	OHX	B1	3608	-	-	-	X
74	OHX	B1	3609	-	-	-	X
74	OHX	B1	3613	-	-	-	X
74	OHX	B1	3620	-	-	X	-
74	OHX	B2	201	-	-	X	-
74	OHX	B2	207	-	-	-	X
74	OHX	B2	208	-	-	-	X
74	OHX	B2	210	-	-	-	X
74	OHX	B3	206	-	-	X	-
74	OHX	BO	301	-	-	-	X
74	OHX	Bd	101	-	-	X	-
74	OHX	Bg	101	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	C1	1916	-	-	X	-
74	OHX	C1	1917	-	-	X	-
74	OHX	C1	1924	-	-	X	-
74	OHX	C1	1928	-	-	X	-
74	OHX	C1	1930	-	-	X	-
74	OHX	C1	1933	-	-	X	-
74	OHX	C1	1955	-	-	X	-
74	OHX	C1	1957	-	-	-	X
74	OHX	C1	1964	-	-	X	-
74	OHX	C1	1970	-	-	X	-
74	OHX	C1	1974	-	-	-	X
74	OHX	C1	1976	-	-	-	X
74	OHX	C1	1978	-	-	-	X
74	OHX	C1	1980	-	-	-	X
74	OHX	C1	1983	-	-	X	-
74	OHX	C1	1985	-	-	-	X
74	OHX	C1	1988	-	-	-	X
74	OHX	C1	1989	-	-	-	X
74	OHX	C1	1991	-	-	-	X
74	OHX	C1	1995	-	-	-	X
74	OHX	C1	1996	-	-	-	X
74	OHX	C1	1998	-	-	-	X
74	OHX	CS	101	-	-	X	-
74	OHX	D1	3408	-	-	X	-
74	OHX	D1	3415	-	-	X	-
74	OHX	D1	3430	-	-	X	-
74	OHX	D1	3431	-	-	X	-
74	OHX	D1	3452	-	-	X	-
74	OHX	D1	3463	-	-	X	-
74	OHX	D1	3473	-	-	X	-
74	OHX	D1	3480	-	-	X	-
74	OHX	D1	3502	-	-	X	-
74	OHX	D1	3506	-	-	-	X
74	OHX	D1	3509	-	-	-	X
74	OHX	D1	3516	-	-	-	X
74	OHX	D1	3519	-	-	-	X
74	OHX	D1	3522	-	-	-	X
74	OHX	D1	3535	-	-	-	X
74	OHX	D1	3541	-	-	-	X
74	OHX	D1	3543	-	-	X	-
74	OHX	D1	3545	-	-	-	X
74	OHX	D1	3555	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	D1	3567	-	-	X	-
74	OHX	D1	3568	-	-	X	X
74	OHX	D1	3573	-	-	-	X
74	OHX	D1	3574	-	-	X	-
74	OHX	D1	3578	-	-	-	X
74	OHX	D1	3582	-	-	X	-
74	OHX	D1	3583	-	-	X	-
74	OHX	D1	3586	-	-	-	X
74	OHX	D1	3587	-	-	-	X
74	OHX	D1	3588	-	-	X	-
74	OHX	D1	3593	-	-	-	X
74	OHX	D1	3595	-	-	-	X
74	OHX	D1	3601	-	-	-	X
74	OHX	D1	3603	-	-	-	X
74	OHX	D1	3605	-	-	-	X
74	OHX	D1	3610	-	-	-	X
74	OHX	D1	3616	-	-	-	X
74	OHX	D1	3623	-	-	-	X
74	OHX	D2	201	-	-	X	-
74	OHX	D2	207	-	-	X	-
74	OHX	D3	202	-	-	X	-
74	OHX	D3	205	-	-	X	-
74	OHX	D3	206	-	-	-	X
74	OHX	D3	212	-	-	X	-
74	OHX	DO	301	-	-	X	-
74	OHX	Dd	101	-	-	X	-
74	OHX	Dg	101	-	-	X	-

2 Entry composition (i)

There are 74 unique types of molecules in this entry. The entry contains 309610 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 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A1	1789	Total 38107	C 17037	N 6732	O 12549	P 1789	0	0	0
1	C1	1789	Total 38107	C 17037	N 6732	O 12549	P 1789	0	0	0

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	AA	220	Total 1090	C 650	N 220	O 220	0	0	0
2	CA	220	Total 1090	C 650	N 220	O 220	0	0	0

- Molecule 3 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	AB	219	Total 1074	C 636	N 219	O 219	0	0	0
3	CB	219	Total 1074	C 636	N 219	O 219	0	0	0

- Molecule 4 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	AC	189	Total 928	C 550	N 189	O 189	0	0	0
4	CC	189	Total 928	C 550	N 189	O 189	0	0	0

- Molecule 5 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	AD	169	Total 836	C 498	N 169	O 169	0	0	0
5	CD	169	Total 836	C 498	N 169	O 169	0	0	0

- Molecule 6 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
6	AE	157	Total 777	C 463	N 157	O 157	0	0	0
6	CE	157	Total 777	C 463	N 157	O 157	0	0	0

- Molecule 7 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
7	AF	77	Total 382	C 228	N 77	O 77	0	0	0
7	CF	77	Total 382	C 228	N 77	O 77	0	0	0

- Molecule 8 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
8	AG	117	Total 580	C 346	N 117	O 117	0	0	0
8	CG	117	Total 580	C 346	N 117	O 117	0	0	0

- Molecule 9 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AH	128	Total 627	C 371	N 128	O 128	0	0	0
9	CH	128	Total 627	C 371	N 128	O 128	0	0	0

- Molecule 10 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	AI	121	Total 596	C 354	N 121	O 121	0	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	CI	121	Total 596	C 354	N 121	O 121	0	0	0

- Molecule 11 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	AJ	134	Total 658	C 390	N 134	O 134	0	0	0
11	CJ	134	Total 658	C 390	N 134	O 134	0	0	0

- Molecule 12 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	AK	67	Total 332	C 198	N 67	O 67	0	0	0
12	CK	67	Total 332	C 198	N 67	O 67	0	0	0

- Molecule 13 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	AL	120	Total 591	C 351	N 120	O 120	0	0	0
13	CL	120	Total 591	C 351	N 120	O 120	0	0	0

- Molecule 14 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AM	106	Total 521	C 309	N 106	O 106	0	0	0
14	CM	106	Total 521	C 309	N 106	O 106	0	0	0

- Molecule 15 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	AN	111	Total 551	C 329	N 111	O 111	0	0	0
15	CN	111	Total 551	C 329	N 111	O 111	0	0	0

- Molecule 16 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
16	AO	127	Total	C	N	O	0	0	0
			622	368	127	127			
16	CO	127	Total	C	N	O	0	0	0
			622	368	127	127			

- Molecule 17 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AP	116	Total	C	N	O	0	0	0
			566	334	116	116			
17	CP	116	Total	C	N	O	0	0	0
			566	334	116	116			

- Molecule 18 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AQ	67	Total	C	N	O	0	0	0
			332	198	67	67			
18	CQ	63	Total	C	N	O	0	0	0
			312	186	63	63			

- Molecule 19 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	AR	47	Total	C	N	O	0	0	0
			230	136	47	47			
19	CR	47	Total	C	N	O	0	0	0
			230	136	47	47			

- Molecule 20 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	AS	39	Total	C	N	O	0	0	0
			190	112	39	39			
20	CS	39	Total	C	N	O	0	0	0
			190	112	39	39			

- Molecule 21 is a protein called Guanine nucleotide-binding protein subunit beta-like protein; RACK-1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AT	313	Total 1543	C 917	N 313	O 313	0	0	0
21	CT	313	Total 1543	C 917	N 313	O 313	0	0	0

- Molecule 22 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
22	Aa	20	Total 100	C 60	N 20	O 20	0	0	0
22	Bo	20	Total 100	C 60	N 20	O 20	0	0	0
22	Ca	20	Total 100	C 60	N 20	O 20	0	0	0

- Molecule 23 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	Ab	105	Total 525	C 315	N 105	O 105	0	0	0
23	Cb	105	Total 525	C 315	N 105	O 105	0	0	0

- Molecule 24 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	Ac	93	Total 465	C 279	N 93	O 93	0	0	0
24	Cc	93	Total 465	C 279	N 93	O 93	0	0	0

- Molecule 25 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	Ad	35	Total 175	C 105	N 35	O 35	0	0	0
25	Cd	35	Total 175	C 105	N 35	O 35	0	0	0

- Molecule 26 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	Ae	21	Total	C	N	O	0	0	0
			105	63	21	21			
26	Bj	21	Total	C	N	O	0	0	0
			105	63	21	21			
26	Dj	21	Total	C	N	O	0	0	0
			105	63	21	21			

- Molecule 27 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	Af	11	Total	C	N	O	0	0	0
			55	33	11	11			

- Molecule 28 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	Ah	41	Total	C	N	O	0	0	0
			205	123	41	41			
28	Ch	41	Total	C	N	O	0	0	0
			205	123	41	41			

- Molecule 29 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B1	3206	Total	C	N	O	P	0	0	0
			68577	30632	12365	22374	3206			
29	D1	3206	Total	C	N	O	P	0	0	0
			68577	30632	12365	22374	3206			

- Molecule 30 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B2	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
30	D2	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 31 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B3	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D3	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 32 is a protein called 60S ribosomal protein L1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
32	BA	213	Total	C	N	O	0	0	0
			1055	629	213	213			
32	DA	213	Total	C	N	O	0	0	0
			1055	629	213	213			

- Molecule 33 is a protein called 60S ribosomal protein L2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	BB	234	Total	C	N	O	0	0	0
			1106	638	234	234			
33	DB	234	Total	C	N	O	0	0	0
			1106	638	234	234			

- Molecule 34 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
34	BC	364	Total	C	N	O	0	0	0
			1791	1063	364	364			
34	DC	364	Total	C	N	O	0	0	0
			1791	1063	364	364			

- Molecule 35 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	BD	268	Total	C	N	O	0	0	0
			1312	776	268	268			
35	DD	268	Total	C	N	O	0	0	0
			1312	776	268	268			

- Molecule 36 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BE	287	Total	C	N	O	0	0	0
			1412	838	287	287			
36	DE	287	Total	C	N	O	0	0	0
			1412	838	287	287			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BE	112	ARG	LYS	conflict	UNP P26321
DE	112	ARG	LYS	conflict	UNP P26321

- Molecule 37 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BF	176	Total	C	N	O	0	0	0
			873	521	176	176			
37	DF	176	Total	C	N	O	0	0	0
			873	521	176	176			

- Molecule 38 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BG	215	Total	C	N	O	0	0	0
			1061	631	215	215			
38	DG	215	Total	C	N	O	0	0	0
			1061	631	215	215			

- Molecule 39 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BH	173	Total	C	N	O	0	0	0
			856	510	173	173			
39	DH	173	Total	C	N	O	0	0	0
			856	510	173	173			

- Molecule 40 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	BI	191	Total	C	N	O	0	0	0
			942	560	191	191			
40	DI	191	Total	C	N	O	0	0	0
			942	560	191	191			

- Molecule 41 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	BJ	208	Total	C	N	O	0	0	0
			1027	611	208	208			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	DJ	208	Total 1027	C 611	N 208	O 208	0	0	0

- Molecule 42 is a protein called 60S ribosomal protein L11-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BK	165	Total 810	C 480	N 165	O 165	0	0	0
42	DK	165	Total 810	C 480	N 165	O 165	0	0	0

- Molecule 43 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BN	120	Total 593	C 353	N 120	O 120	0	0	0
43	DN	120	Total 593	C 353	N 120	O 120	0	0	0

- Molecule 44 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BO	187	Total 923	C 549	N 187	O 187	0	0	0
44	DO	187	Total 923	C 549	N 187	O 187	0	0	0

- Molecule 45 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BP	196	Total 967	C 575	N 196	O 196	0	0	0
45	DP	196	Total 967	C 575	N 196	O 196	0	0	0

- Molecule 46 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
46	BQ	154	Total 761	C 453	N 154	O 154	0	0	0
46	DQ	154	Total 761	C 453	N 154	O 154	0	0	0

- Molecule 47 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
47	BR	143	Total	C	N	O	0	0	0
			706	420	143	143			
47	DR	143	Total	C	N	O	0	0	0
			706	420	143	143			

- Molecule 48 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	BS	188	Total	C	N	O	0	0	0
			931	555	188	188			
48	DS	188	Total	C	N	O	0	0	0
			931	555	188	188			

- Molecule 49 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BT	119	Total	C	N	O	0	0	0
			586	348	119	119			
49	DT	119	Total	C	N	O	0	0	0
			586	348	119	119			

- Molecule 50 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	BU	129	Total	C	N	O	0	0	0
			631	373	129	129			
50	DU	129	Total	C	N	O	0	0	0
			631	373	129	129			

- Molecule 51 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	BV	59	Total	C	N	O	0	0	0
			291	173	59	59			
51	DV	59	Total	C	N	O	0	0	0
			291	173	59	59			

- Molecule 52 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	BW	94	Total 468	C 280	N 94	O 94	0	0	0
52	DW	94	Total 468	C 280	N 94	O 94	0	0	0

- Molecule 53 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	BX	107	Total 530	C 316	N 107	O 107	0	0	0
53	DX	107	Total 530	C 316	N 107	O 107	0	0	0

- Molecule 54 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
54	BY	149	Total 727	C 429	N 149	O 149	0	0	0
54	DY	149	Total 727	C 429	N 149	O 149	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BY	38	GLU	GLN	conflict	UNP P02406
DY	38	GLU	GLN	conflict	UNP P02406

- Molecule 55 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	BZ	98	Total 481	C 285	N 98	O 98	0	0	0
55	DZ	98	Total 481	C 285	N 98	O 98	0	0	0

- Molecule 56 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
56	Ba	86	Total 425	C 253	N 86	O 86	0	0	0
56	Da	86	Total 425	C 253	N 86	O 86	0	0	0

- Molecule 57 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
57	Bb	125	Total	C	N	O	0	0	0
			618	368	125	125			
57	Db	125	Total	C	N	O	0	0	0
			618	368	125	125			

- Molecule 58 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	Bc	68	Total	C	N	O	0	0	0
			339	203	68	68			
58	Dc	68	Total	C	N	O	0	0	0
			339	203	68	68			

- Molecule 59 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
59	Bd	72	Total	C	N	O	0	0	0
			352	208	72	72			
59	Dd	72	Total	C	N	O	0	0	0
			352	208	72	72			

- Molecule 60 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
60	Be	48	Total	C	N	O	0	0	0
			240	144	48	48			
60	De	48	Total	C	N	O	0	0	0
			240	144	48	48			

- Molecule 61 is a protein called 60S ribosomal protein L42.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
61	Bf	95	Total	C	N	O	0	0	0
			467	277	95	95			
61	Df	95	Total	C	N	O	0	0	0
			467	277	95	95			

- Molecule 62 is a protein called 60S ribosomal protein L43.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	Bg	83	Total	C	N	O	0	0	0
			407	241	83	83			
62	Dg	83	Total	C	N	O	0	0	0
			407	241	83	83			

- Molecule 63 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	Bh	44	Total	C	N	O	0	0	0
			220	132	44	44			
63	Dh	44	Total	C	N	O	0	0	0
			220	132	44	44			

- Molecule 64 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
64	Bi	12	Total	C	N	O	0	0	0
			60	36	12	12			
64	Di	12	Total	C	N	O	0	0	0
			60	36	12	12			

- Molecule 65 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
65	Bk	16	Total	C	N	O	0	0	0
			80	48	16	16			
65	Dk	16	Total	C	N	O	0	0	0
			80	48	16	16			

- Molecule 66 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
66	Bl	19	Total	C	N	O	0	0	0
			95	57	19	19			

- Molecule 67 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
67	Bm	9	Total	C	N	O	0	0	0
			45	27	9	9			

- Molecule 68 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
68	Bn	27	Total C N O 135 81 27 27	0	0	0

- Molecule 69 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
69	Bp	8	Total C N O 40 24 8 8	0	0	0

- Molecule 70 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
70	Bq	17	Total C N O 85 51 17 17	0	0	0

- Molecule 71 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
71	Br	23	Total C N O 115 69 23 23	0	0	0

- Molecule 72 is a protein called 60S ribosomal protein L12.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
72	DL	138	Total C N O 679 403 138 138	0	0	0

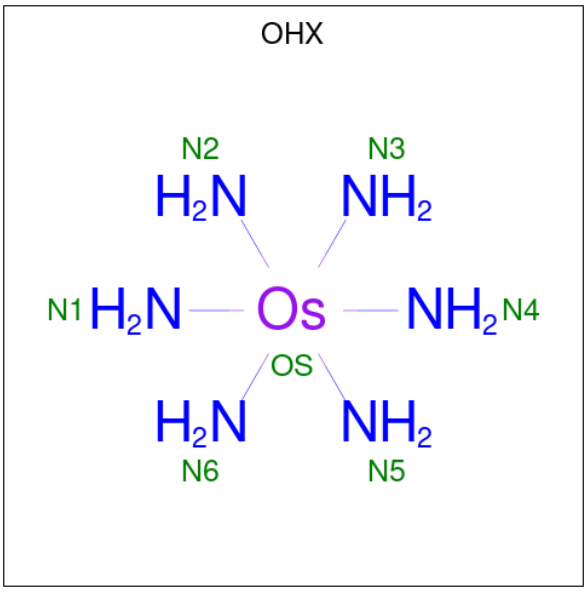
- Molecule 73 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
73	DM	130	Total C N O 641 381 130 130	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
DM	83	TYR	ASN	conflict	UNP P05317

- Molecule 74 is osmium (III) hexammine (CCD ID: OHX) (formula: $H_{12}N_6Os$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0
74	A1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	AL	1	Total	N	Os	0	0
			7	6	1		
74	AS	1	Total	N	Os	0	0
			7	6	1		
74	AT	1	Total	N	Os	0	0
			7	6	1		
74	Ac	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	BC	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	BO	1	Total	N	Os	0	0
			7	6	1		
74	BT	1	Total	N	Os	0	0
			7	6	1		
74	Bd	1	Total	N	Os	0	0
			7	6	1		
74	Bd	1	Total	N	Os	0	0
			7	6	1		
74	Bg	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	CI	1	Total	N	Os	0	0
			7	6	1		
74	CS	1	Total	N	Os	0	0
			7	6	1		
74	CS	1	Total	N	Os	0	0
			7	6	1		
74	CT	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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			7	6	1		
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
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			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
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74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
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			7	6	1		
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			7	6	1		
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74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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74	D2	1	Total 7	N 6	Os 1	0	0
74	D2	1	Total 7	N 6	Os 1	0	0
74	D2	1	Total 7	N 6	Os 1	0	0
74	D2	1	Total 7	N 6	Os 1	0	0
74	D2	1	Total 7	N 6	Os 1	0	0
74	D2	1	Total 7	N 6	Os 1	0	0
74	D2	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
74	D3	1	Total 7	N 6	Os 1	0	0
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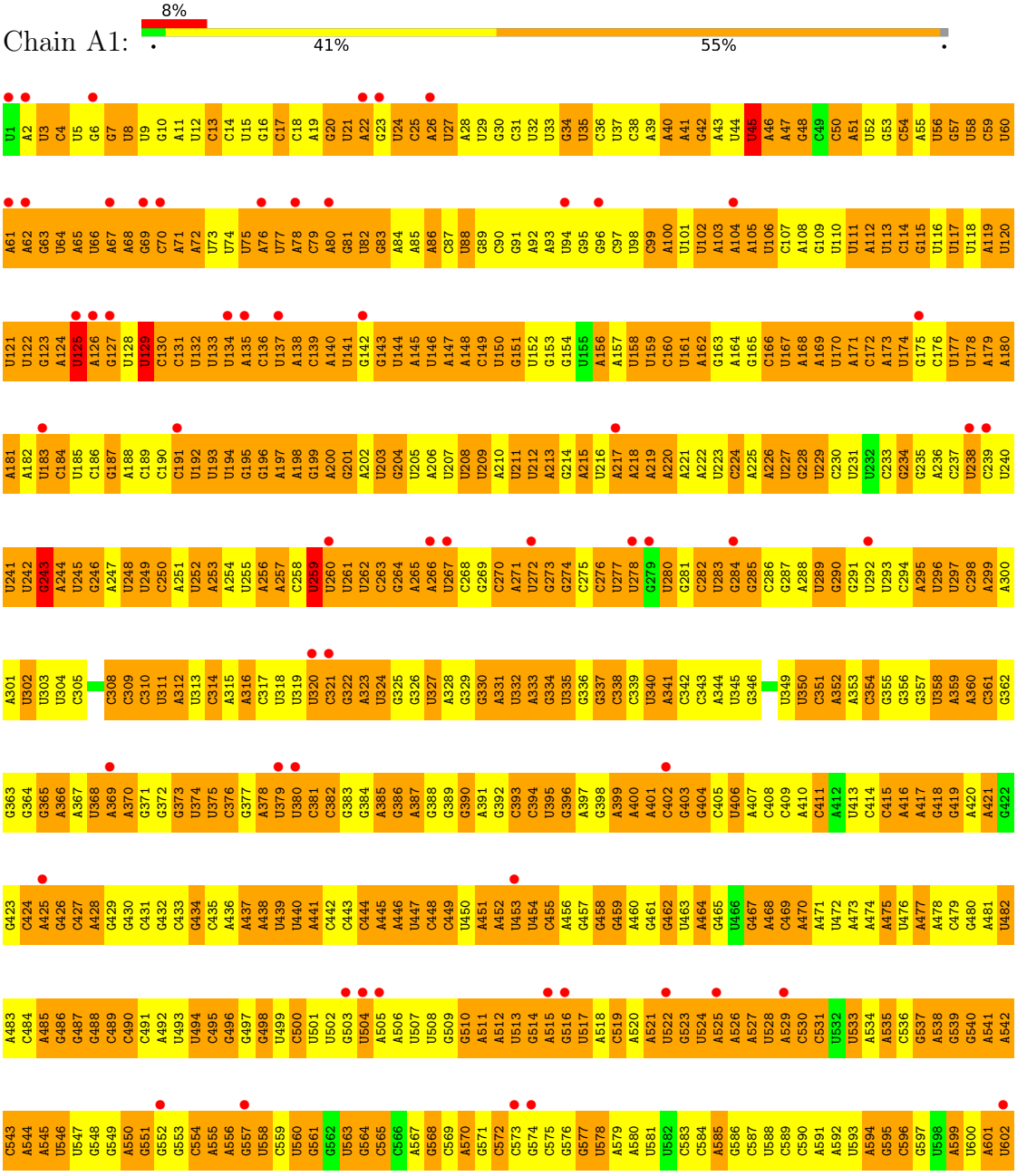
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			7	6	1		
74	DO	1	Total	N	Os	0	0
			7	6	1		
74	DT	1	Total	N	Os	0	0
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74	Dd	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		

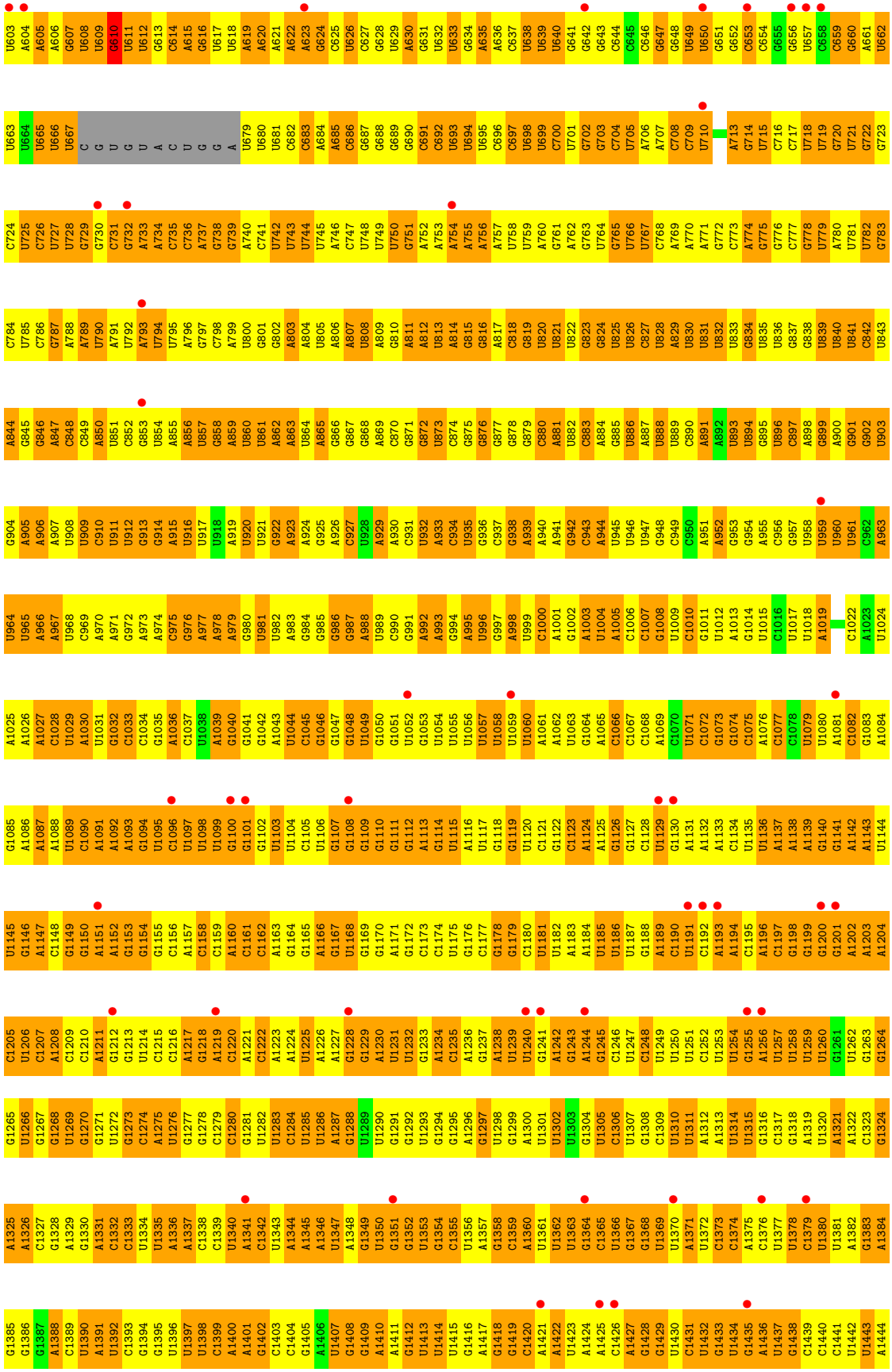
3 Residue-property plots (i)

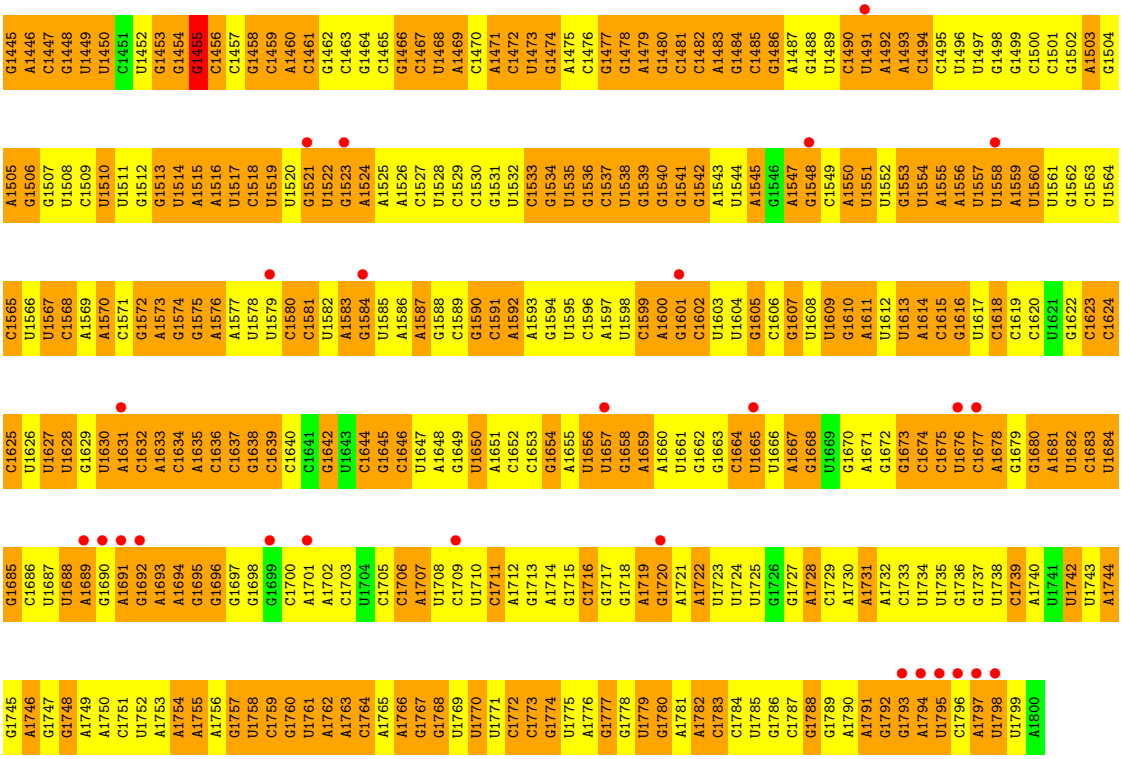
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: 18S ribosomal RNA

Chain A1:



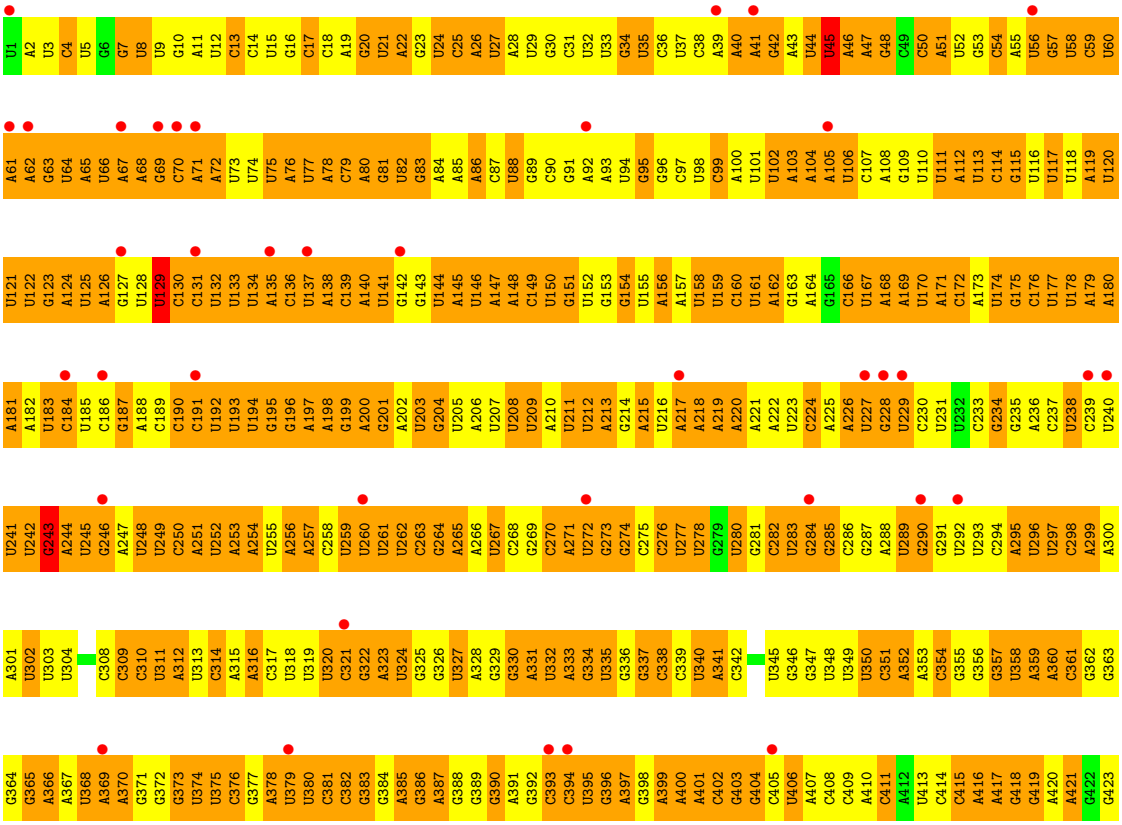


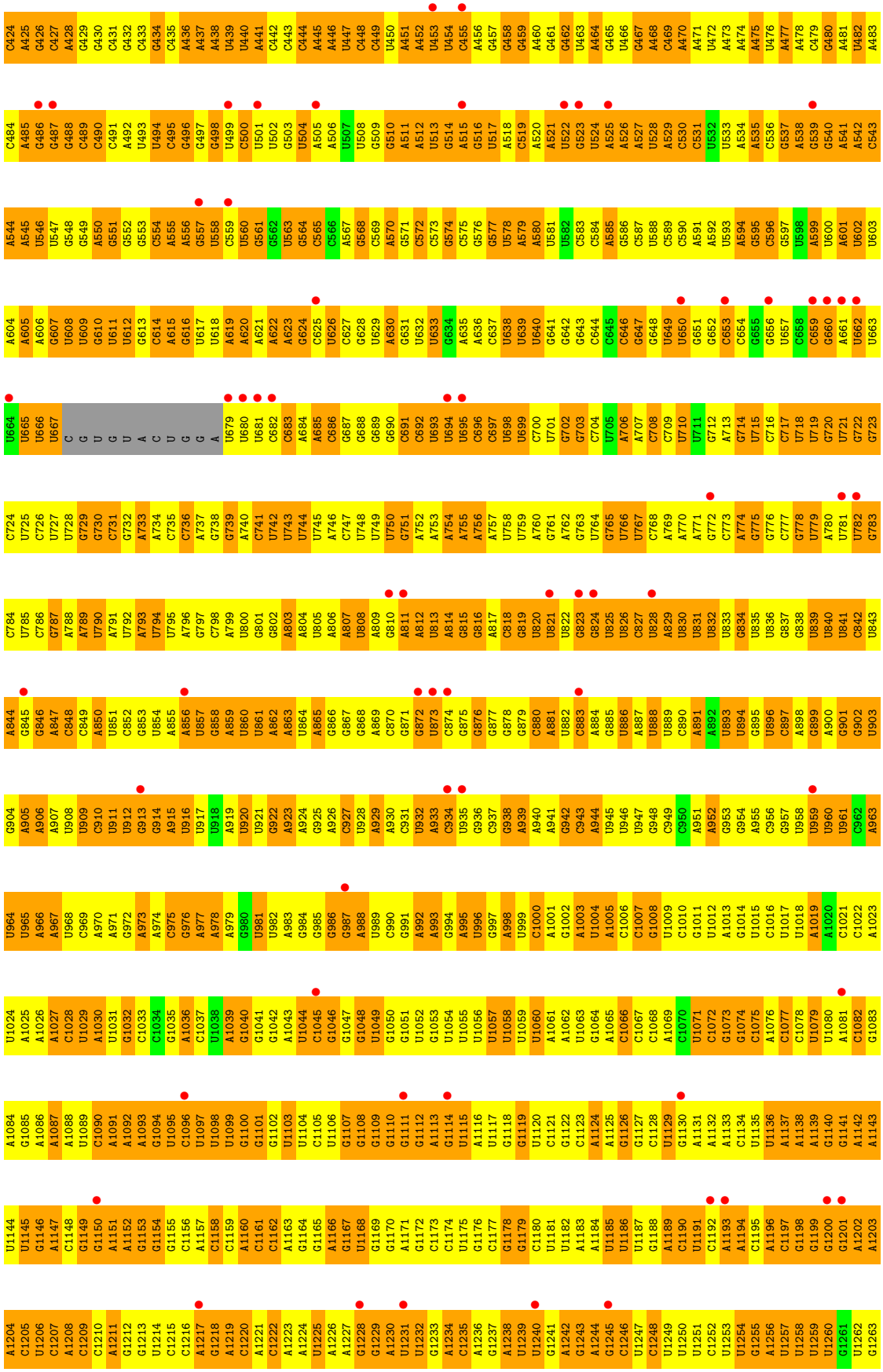


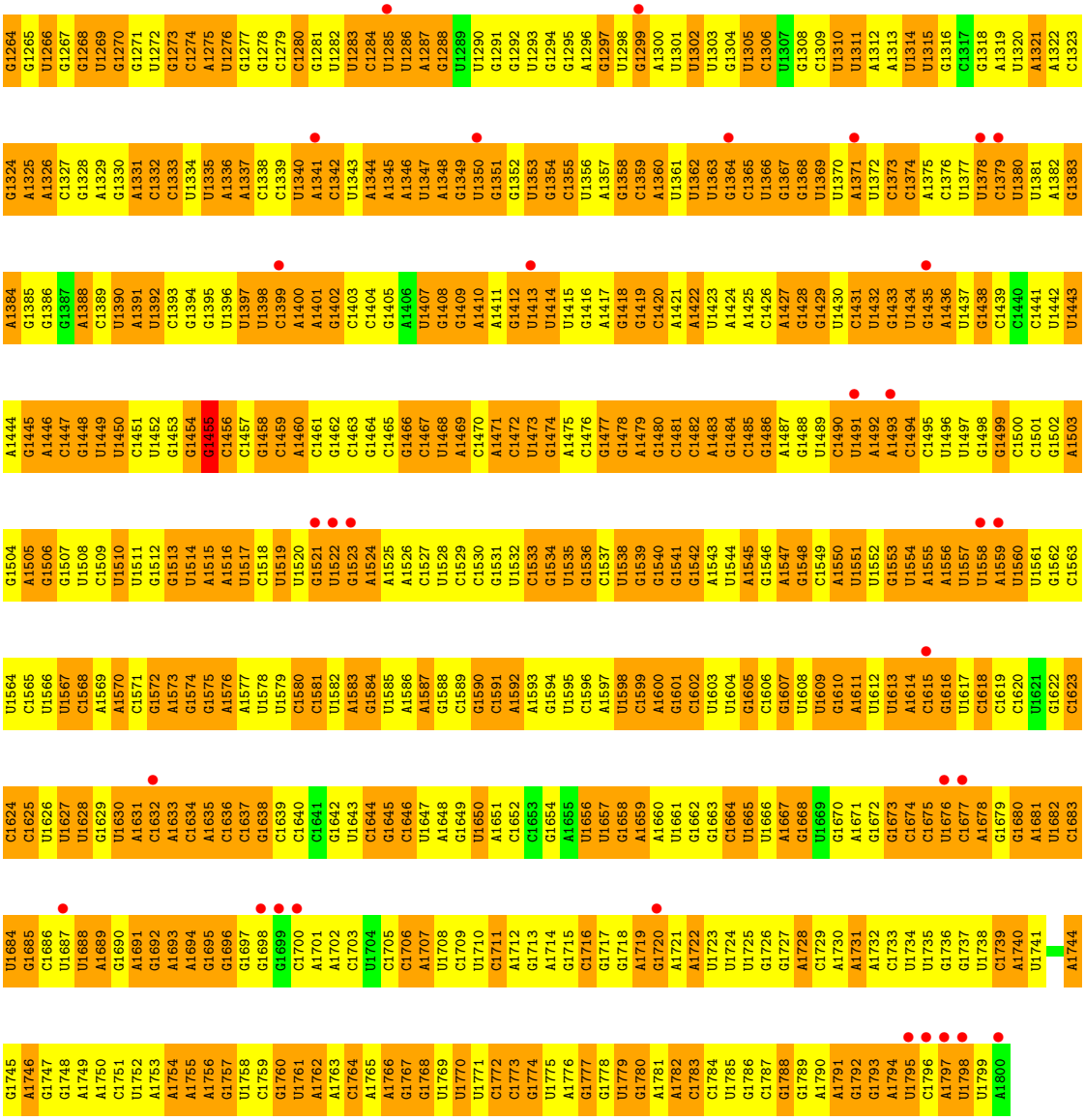
• Molecule 1: 18S ribosomal RNA

Chain C1:





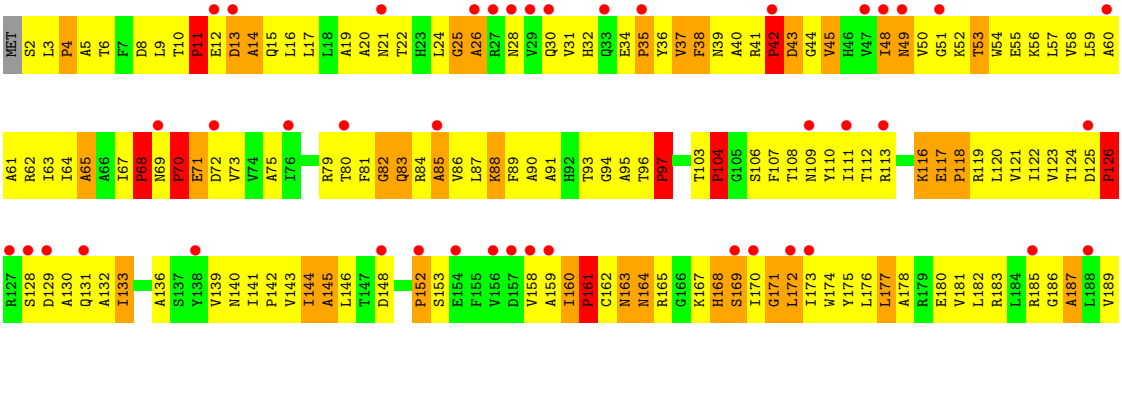

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C484 A485 G486 G487 G488 C489 C490 C491 A492 U493 U494 C495 G496 G497 G498 U499 C500 U501 U502 G503 U504 A505 A506 U507 U508 G509 G510 A511 A512 U513 G514 A515 G516 U517 A518 C519 A520 A521 U522 G523 U524 A525 A526 A527 U528 A529 C530 C531 U532 U533 A534 A535 C536 G537 A538 G539 G540 A541 U542 C543
A544 A545 U546 U547 G548 G549 A550 G551 C552 G553 C554 A555 A556 G557 U558 C559 U560 C561 G562 U563 G564 C565 C566 A567 G568 C569 A570 G571 C572 C573 G574 C575 G576 G577 U578 A579 A580 U581 U582 C583 C584 A585 G586 C587 U588 C589 C590 A591 A592 U593 A594 G595 C596 G597 U598 A599 U600 A601 U602 U603
A604 A605 A606 G607 U608 U609 G610 U611 U612 G613 C614 A615 G616 U617 U618 A619 A620 A621 A622 A623 G624 C625 U626 C627 G628 U629 A630 G631 U632 U633 G634 A635 A636 C637 U638 U639 U640 G641 G642 G643 C644 G645 G646 G647 G648 U649 U650 G651 G652 C653 C654 G655 C656 U657 C658 C659 G660 A661 U662 U663
U664 U665 U666 U667 C G U G U A C U G G A U679 U680 U681 C682 C683 A684 A685 C686 G687 G688 G689 G690 C691 C692 U693 U694 U695 C696 C697 U698 U699 C700 U701 G702 G703 C704 U705 A706 A707 C708 C709 U710 U711 G712 A713 G714 U715 C716 C717 U718 U719 G720 U721 G722 G723
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C784 U785 C786 G787 A788 A789 U790 A791 U792 A793 U794 U795 A796 G797 C798 A799 U800 G801 G802 A803 A804 U805 A806 A807 U808 A809 G810 A811 A812 U813 A814 G815 G816 A817 C818 G819 U820 U821 U822 G823 G824 U825 U826 C827 U828 A829 U830 U831 U832 U833 G834 U835 U836 G837 G838 U839 U840 U841 C842 U843
A844 G845 G846 A847 C848 C849 A850 U851 C852 G853 U854 A855 A856 U857 G858 A859 U860 U861 A862 A863 U864 A865 G866 G867 G868 A869 C870 G871 G872 U873 C874 G875 G876 G877 G878 G879 C880 A881 U882 C883 A884 G885 U886 A887 U888 U889 C890 A891 A892 U893 U894 G895 U896 C897 A898 G899 A900 G901 G902 U903
G904 A905 A906 A907 U908 U909 C910 U911 U912 G913 G914 A915 U916 U917 U918 A919 U920 U921 G922 A923 A924 G925 A926 C927 U928 A929 A930 C931 U932 A933 C934 U935 G936 C937 G938 A939 A940 A941 G942 C943 A944 U945 U946 U947 G948 C949 C950 A951 A952 G953 G954 A955 C956 G957 U958 U959 U960 U961 C962 A963
U964 U965 A966 A967 U968 C969 A970 A971 G972 A973 A974 C975 G976 A977 A978 A979 G980 U981 U982 A983 G984 G985 G986 G987 A988 U989 C990 G991 A992 A993 G994 A995 U996 G997 A998 U999 C1000 A1001 G1002 A1003 U1004 A1005 C1006 C1007 C1008 U1009 C1010 G1011 U1012 A1013 G1014 U1015 C1016 A1017 U1018 A1019 A1020 C1021 C1022 A1023
U1024 A1025 A1026 A1027 C1028 U1029 A1030 U1031 G1032 C1033 C1034 G1035 A1036 C1037 U1038 A1039 G1040 G1041 G1042 A1043 U1044 C1045 G1046 G1047 G1048 U1049 G1050 G1051 U1052 G1053 U1054 U1055 U1056 U1057 U1058 U1059 U1060 A1061 A1062 U1063 G1064 A1065 C1066 C1067 C1068 A1069 C1070 U1071 C1072 G1073 G1074 C1075 A1076 C1077 C1078 U1079 U1080 A1081 C1082 G1083
A1084 G1085 A1086 A1087 A1088 U1089 C1090 A1091 A1092 A1093 G1094 U1095 C1096 U1097 U1098 U1099 G1100 G1101 G1102 U1103 U1104 C1105 U1106 G1107 G1108 G1109 G1110 G1111 G1112 A1113 G1114 U1115 A1116 U1117 G1118 G1119 U1120 C1121 C1122 C1123 A1124 A1125 G1126 G1127 C1128 U1129 G1130 A1131 A1132 A1133 C1134 U1135 U1136 A1137 A1138 A1139 G1140 G1141 A1142 A1143
U1144 U1145 G1146 A1147 C1148 G1149 G1150 A1151 A1152 G1153 G1154 G1155 C1156 A1157 C1158 C1159 A1160 C1161 C1162 A1163 G1164 G1165 A1166 G1167 U1168 G1169 G1170 A1171 G1172 C1173 C1174 U1175 G1176 C1177 G1178 G1179 C1180 U1181 U1182 A1183 A1184 U1185 U1186 U1187 G1188 A1189 C1190 U1191 C1192 A1193 A1194 C1195 A1196 C1197 G1198 G1199 G1200 G1201 A1202 A1203
A1204 C1205 U1206 C1207 A1208 C1209 C1210 A1211 G1212 G1213 U1214 C1215 C1216 A1217 G1218 A1219 C1220 A1221 C1222 A1223 A1224 U1225 A1226 A1227 G1228 G1229 A1230 U1231 U1232 G1233 A1234 C1235 A1236 G1237 A1238 U1239 U1240 G1241 A1242 G1243 A1244 G1245 C1246 U1247 C1248 U1249 U1250 U1251 C1252 U1253 U1254 G1255 A1256 U1257 U1258 U1259 U1260 G1261 U1262 G1263

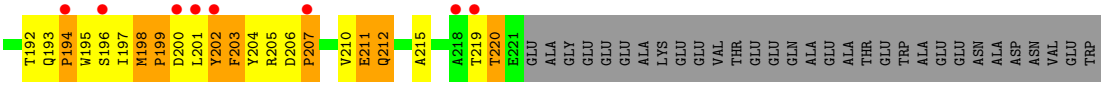


• Molecule 2: 40S ribosomal protein S0-A

Chain AA:



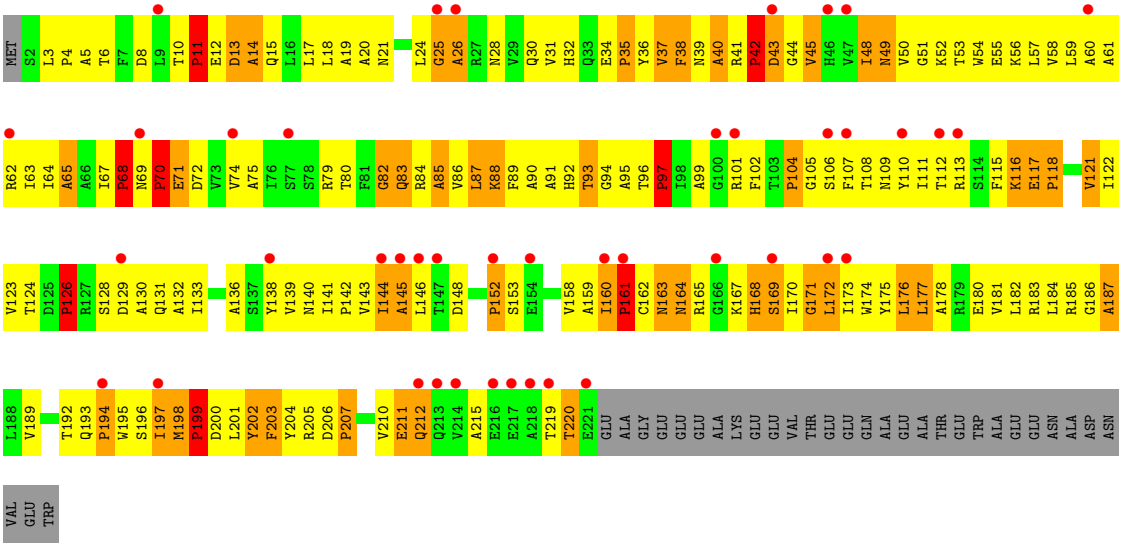




• Molecule 2: 40S ribosomal protein S0-A

Chain CA:

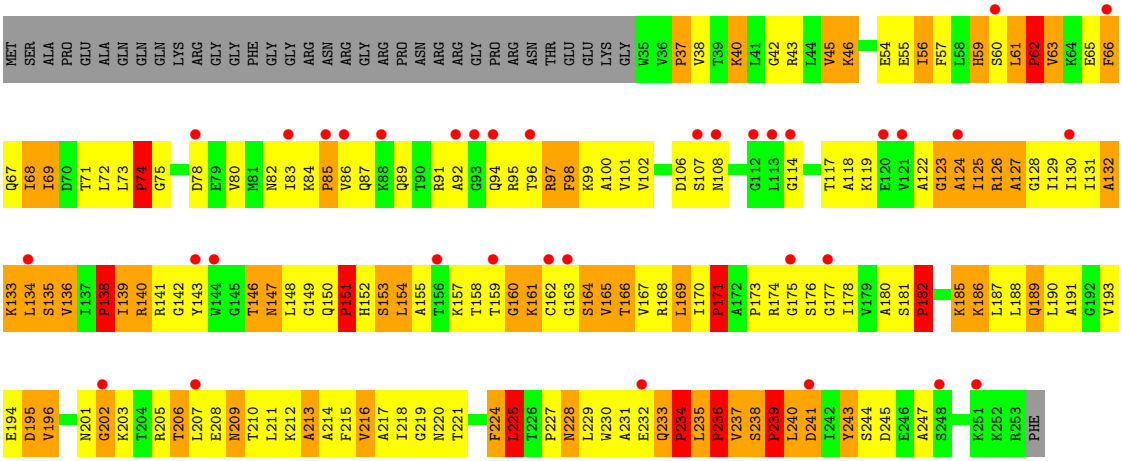




• Molecule 3: 40S ribosomal protein S2

Chain AB:

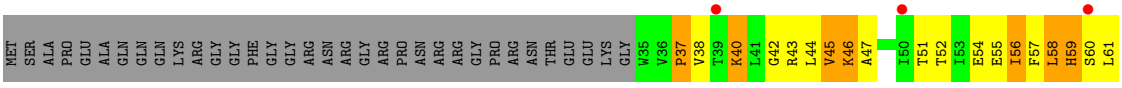


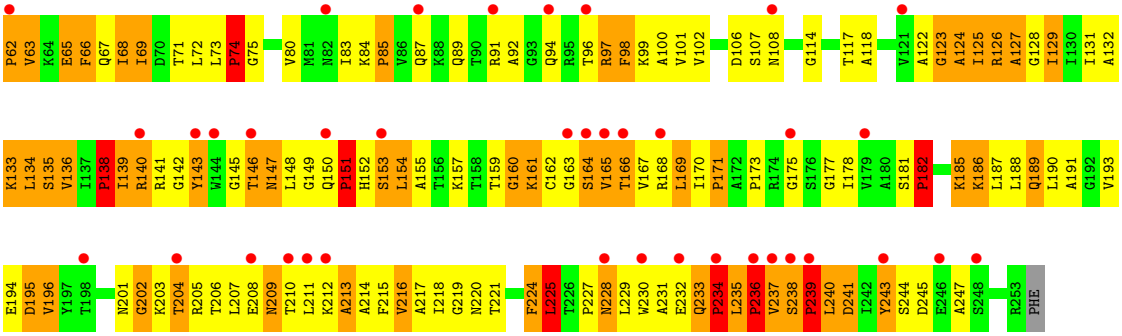


• Molecule 3: 40S ribosomal protein S2

Chain CB:



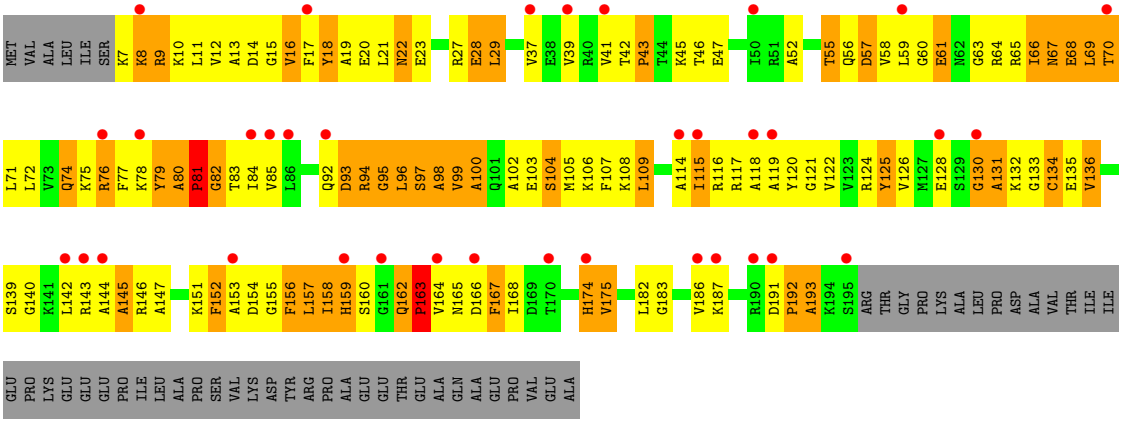




• Molecule 4: 40S ribosomal protein S3

Chain AC:

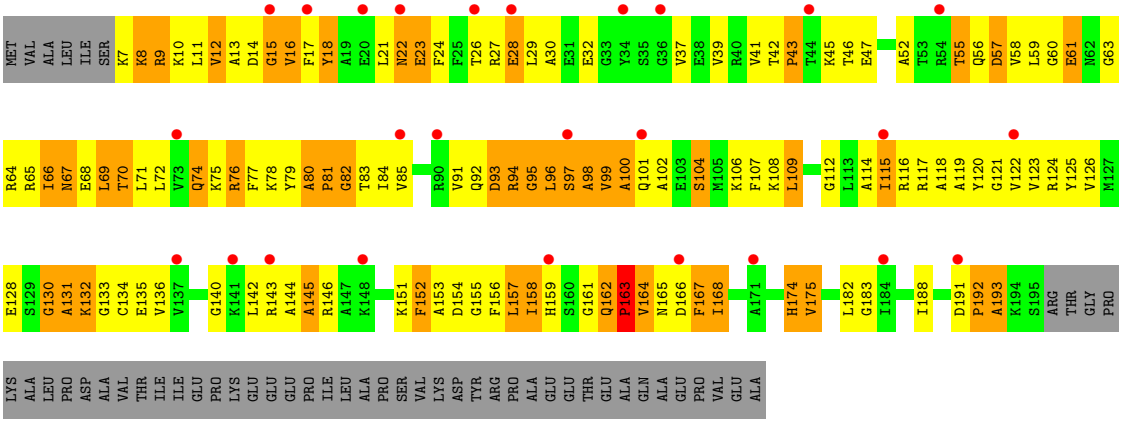




• Molecule 4: 40S ribosomal protein S3

Chain CC:

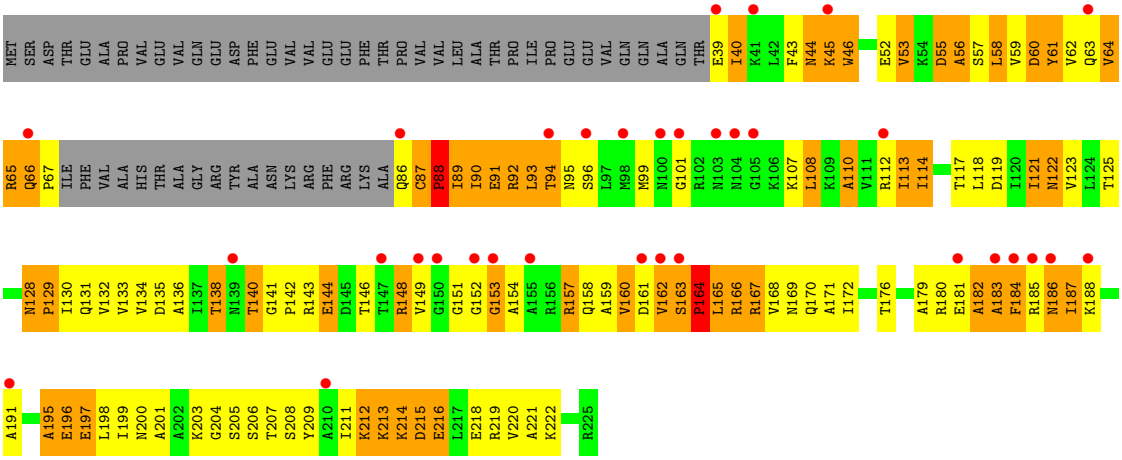




• Molecule 5: 40S ribosomal protein S5

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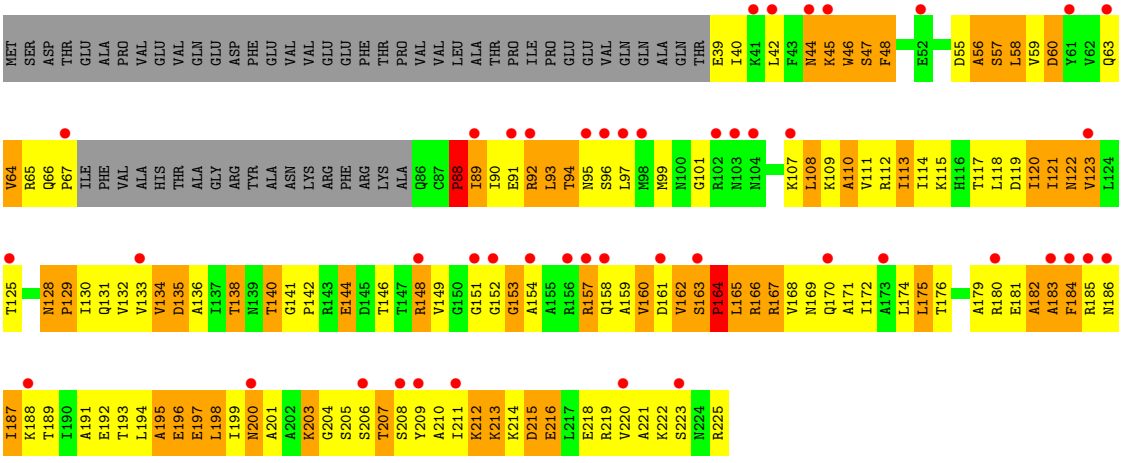




• Molecule 5: 40S ribosomal protein S5

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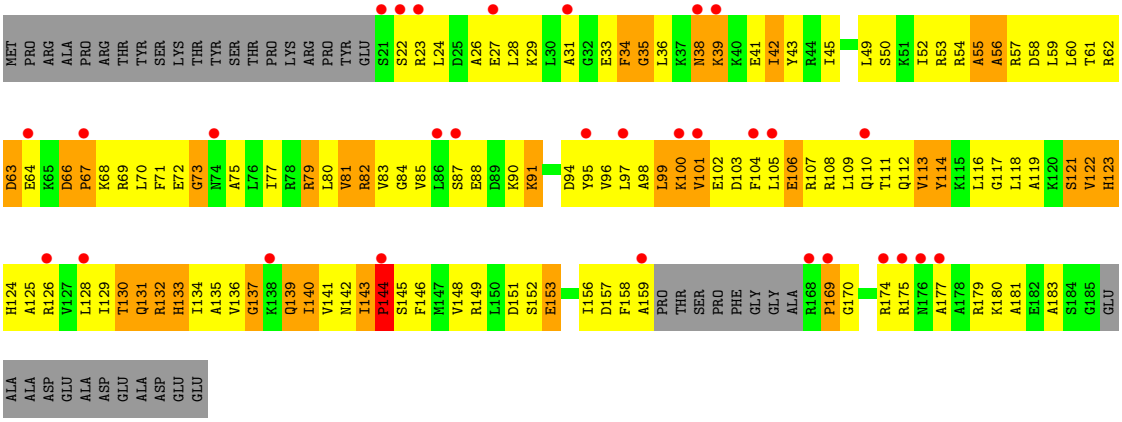




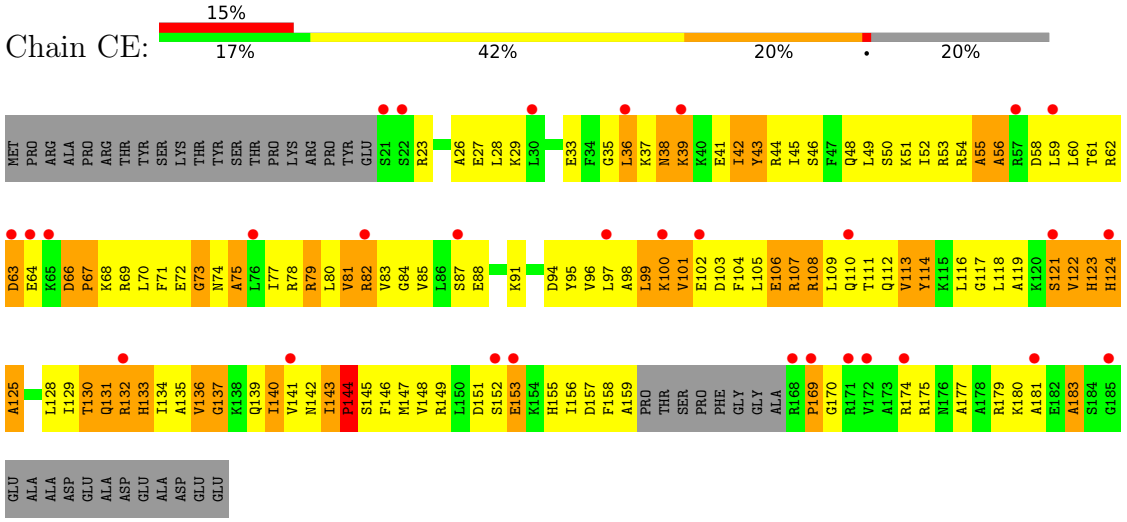
• Molecule 6: 40S ribosomal protein S9-A

Chain AE:

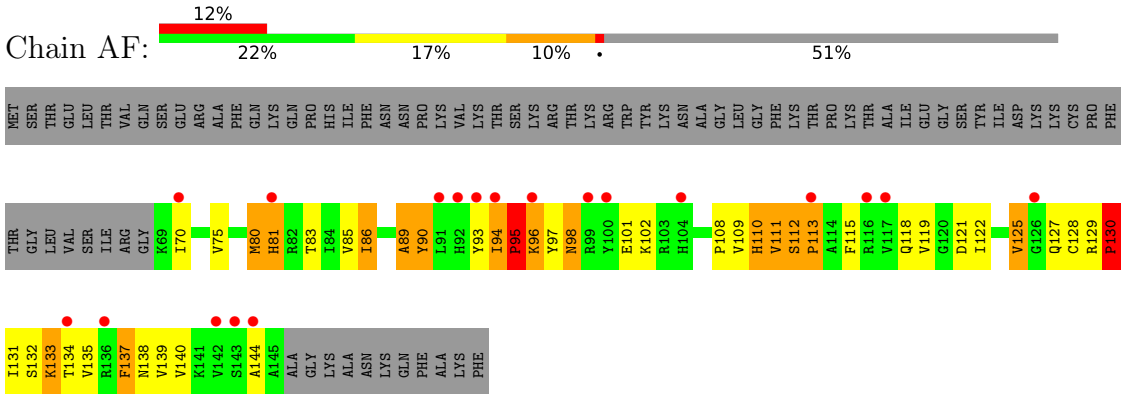




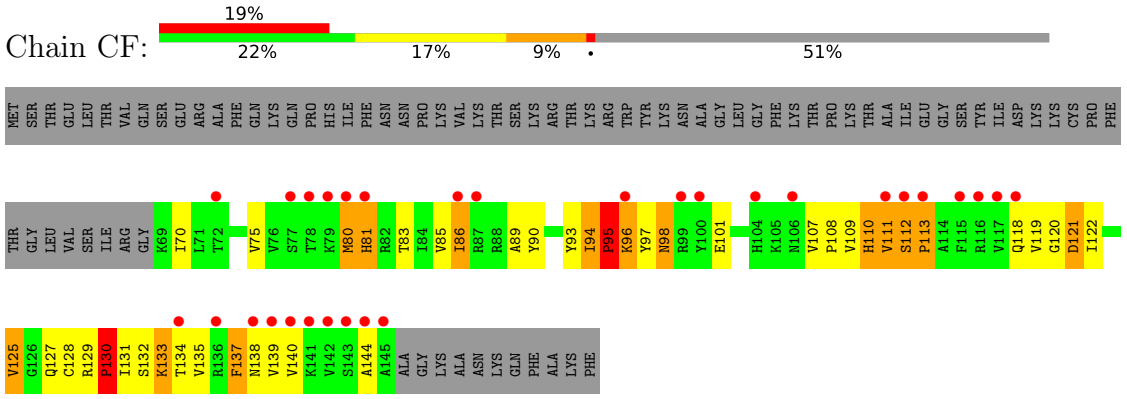
• Molecule 6: 40S ribosomal protein S9-A



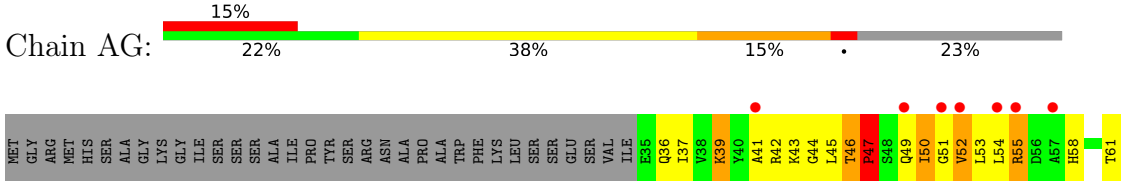
• Molecule 7: 40S ribosomal protein S11

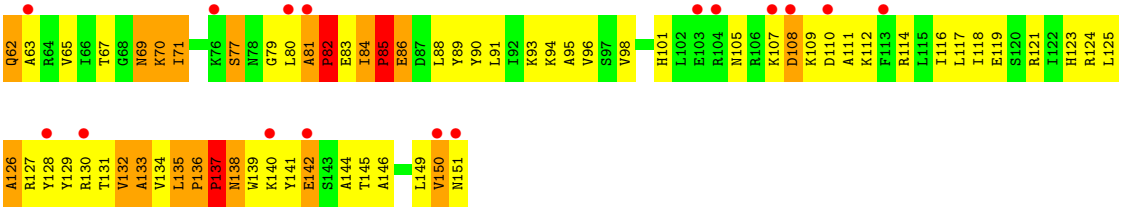


• Molecule 7: 40S ribosomal protein S11



• Molecule 8: 40S ribosomal protein S13

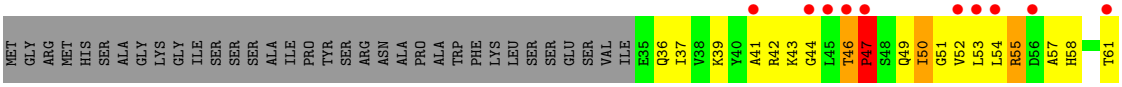


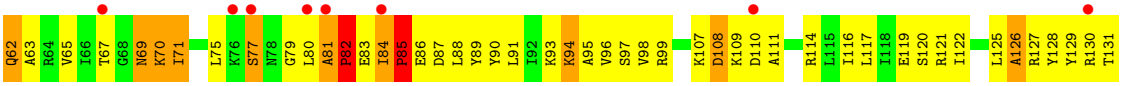


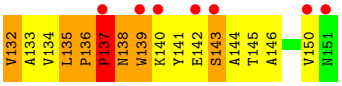
• Molecule 8: 40S ribosomal protein S13

Chain CG:



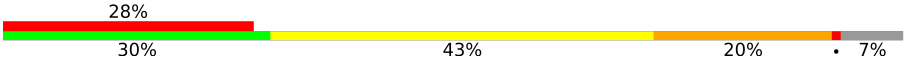


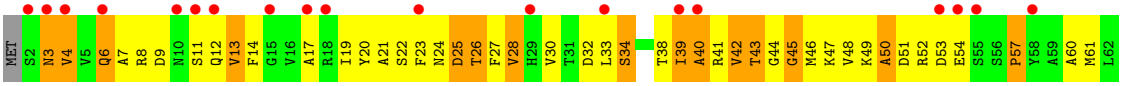


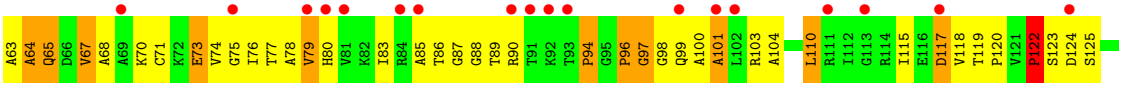


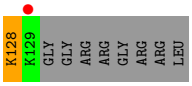
• Molecule 9: 40S ribosomal protein S14-A

Chain AH:



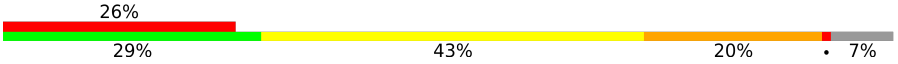


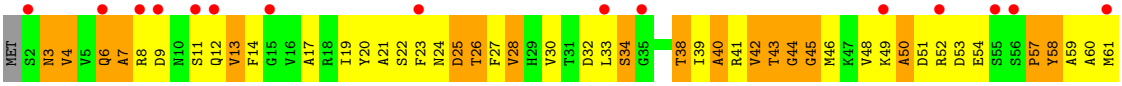


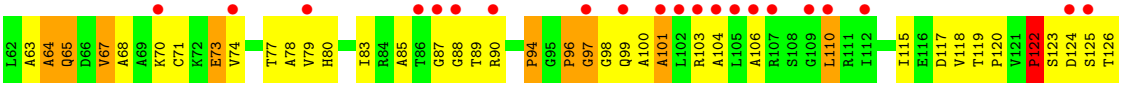


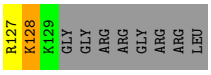
• Molecule 9: 40S ribosomal protein S14-A

Chain CH:



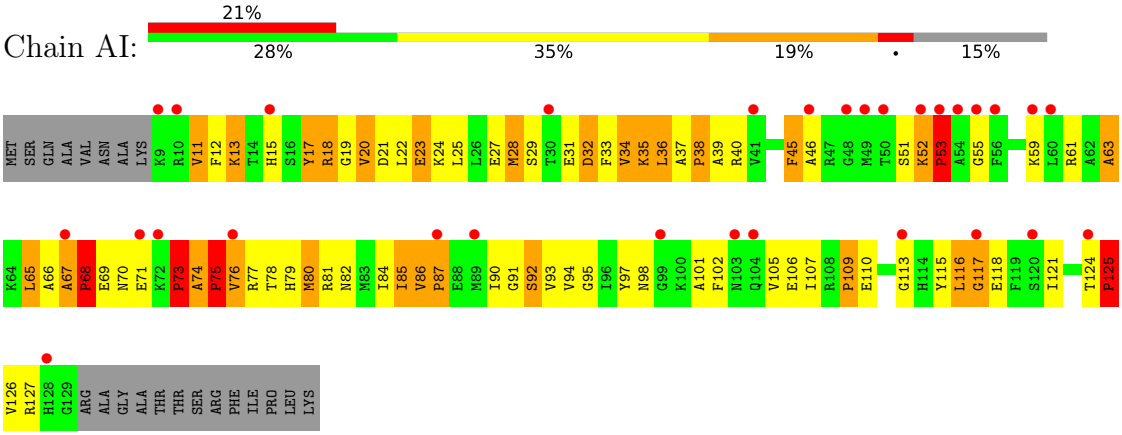






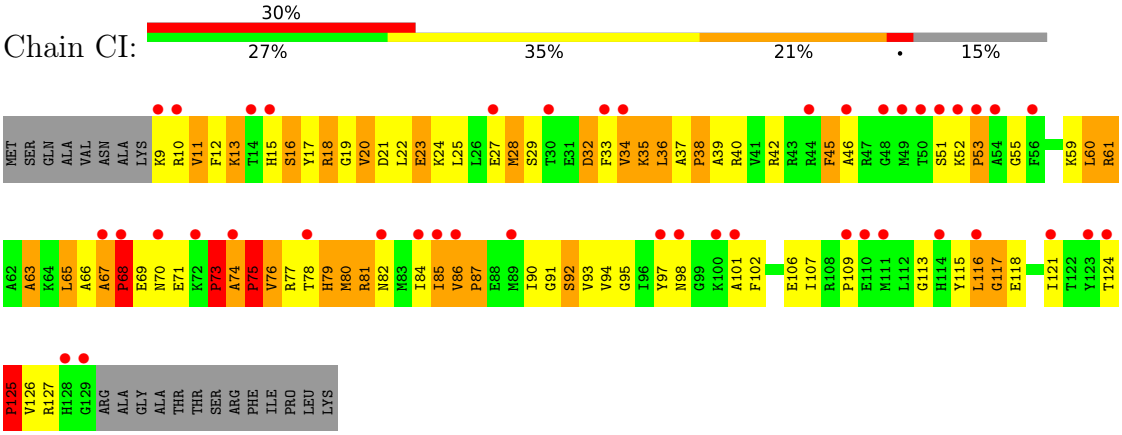
• Molecule 10: 40S ribosomal protein S15

Chain AI:



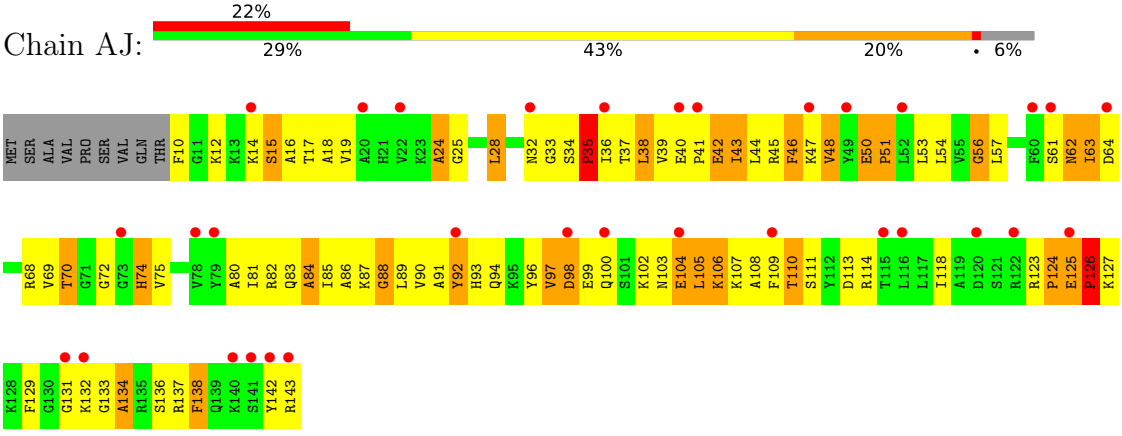
• Molecule 10: 40S ribosomal protein S15

Chain CI:



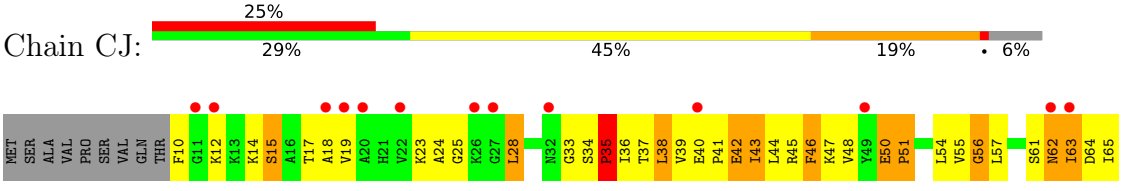
• Molecule 11: 40S ribosomal protein S16

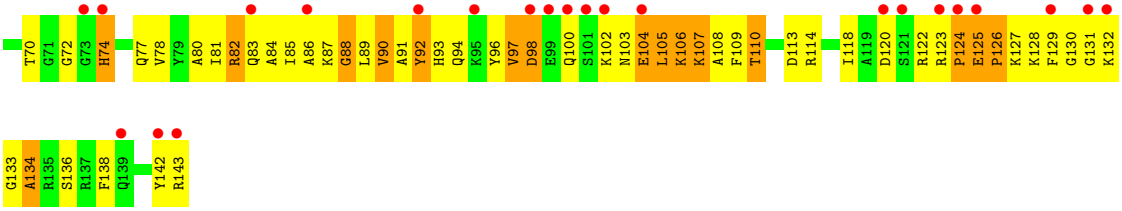
Chain AJ:



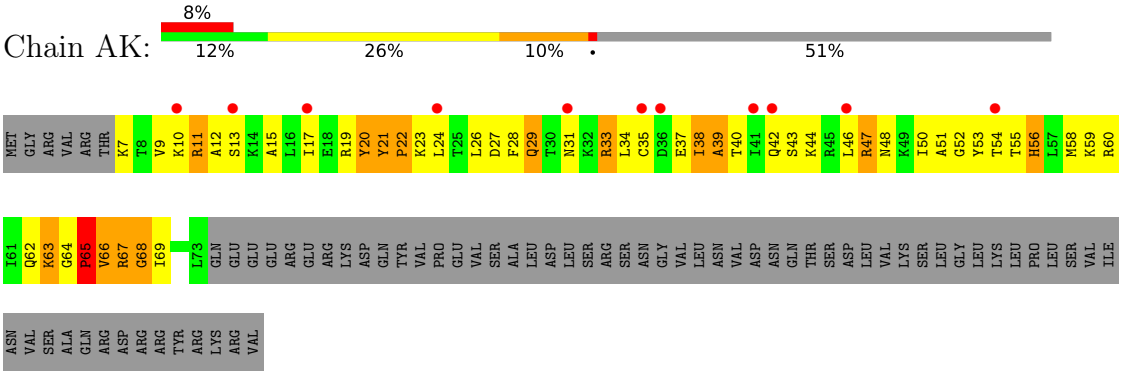
• Molecule 11: 40S ribosomal protein S16

Chain CJ:

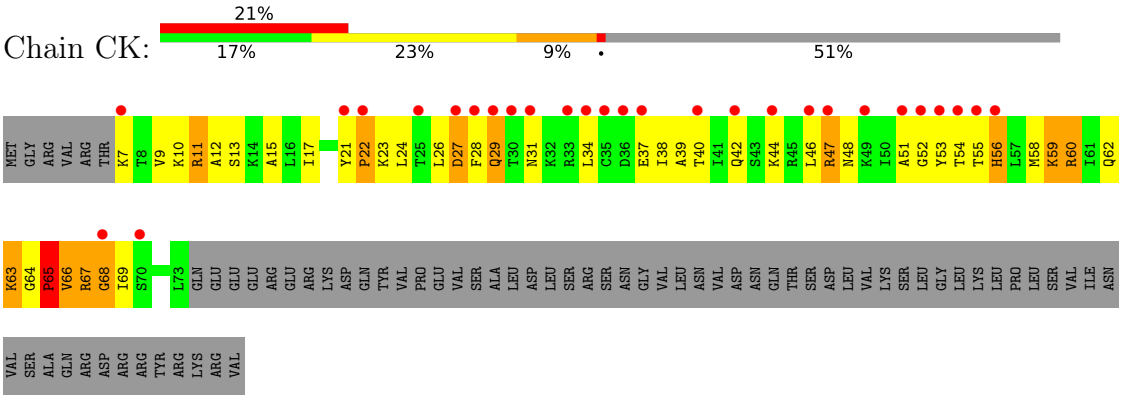




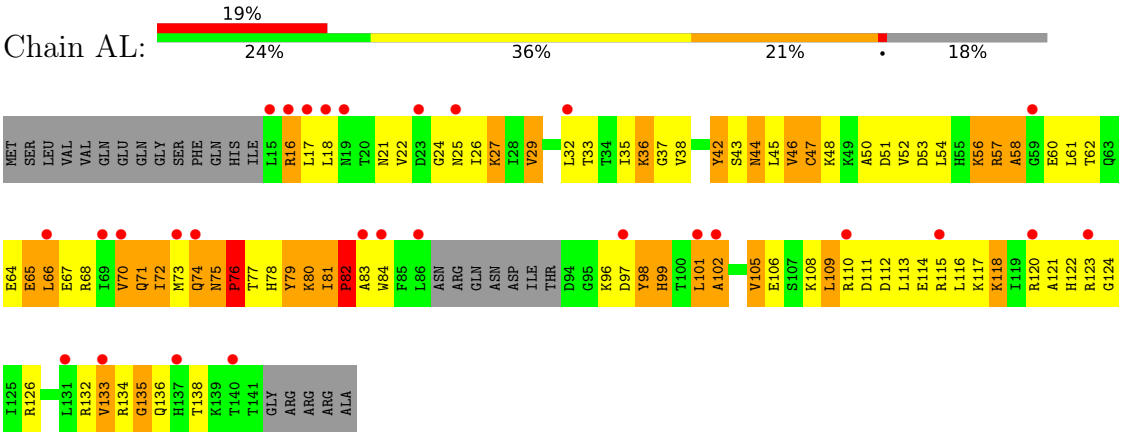
• Molecule 12: 40S ribosomal protein S17-A



• Molecule 12: 40S ribosomal protein S17-A

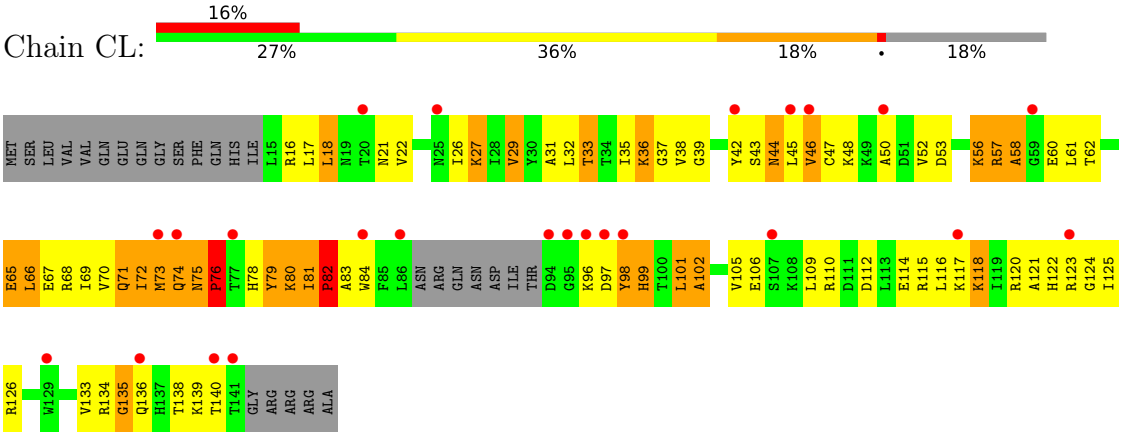


• Molecule 13: 40S ribosomal protein S18



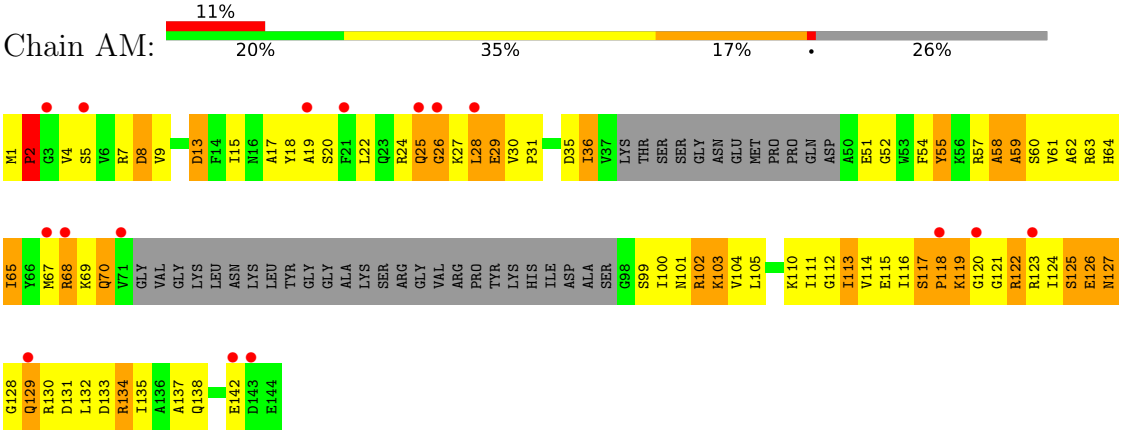
• Molecule 13: 40S ribosomal protein S18

Chain CL:



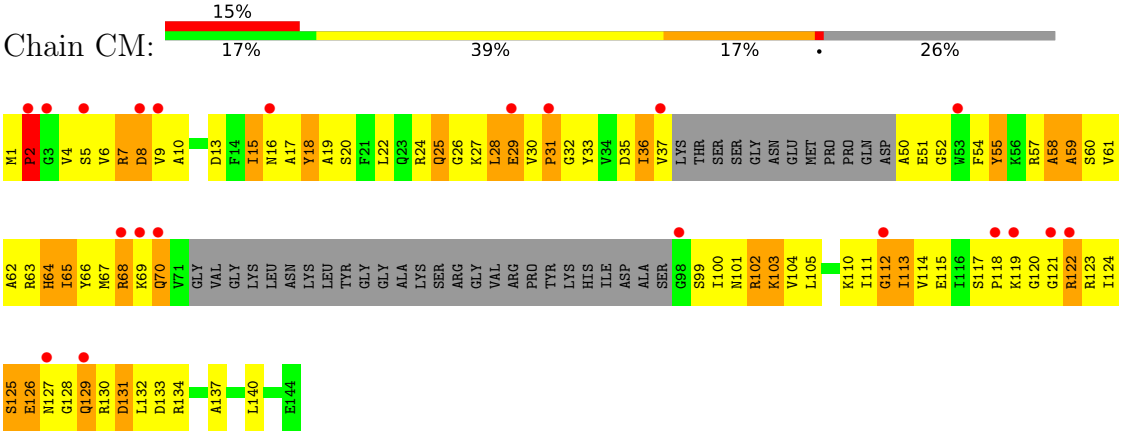
• Molecule 14: 40S ribosomal protein S19-A

Chain AM:



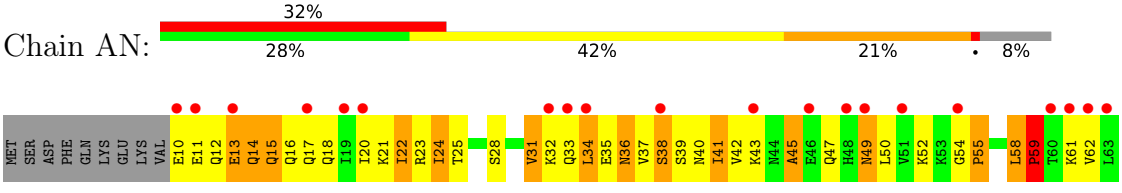
• Molecule 14: 40S ribosomal protein S19-A

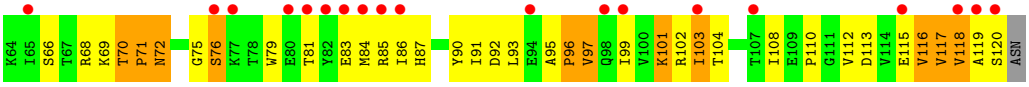
Chain CM:



• Molecule 15: 40S ribosomal protein S20

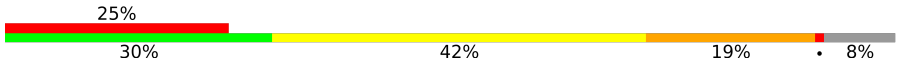
Chain AN:

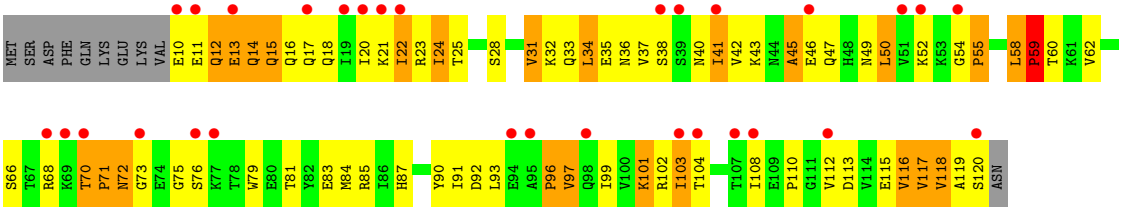




• Molecule 15: 40S ribosomal protein S20

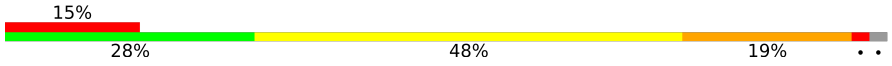
Chain CN:

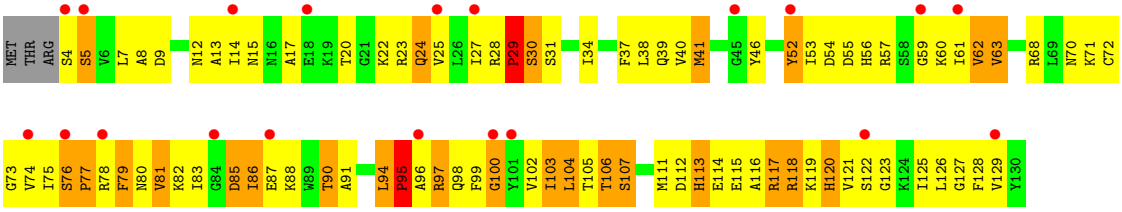




• Molecule 16: 40S ribosomal protein S22-A

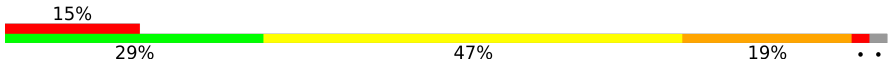
Chain AO:

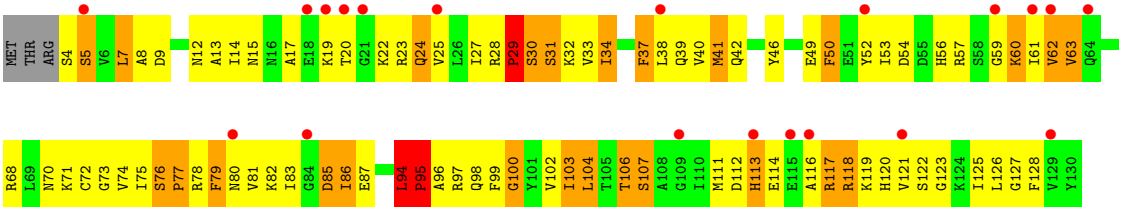




• Molecule 16: 40S ribosomal protein S22-A

Chain CO:

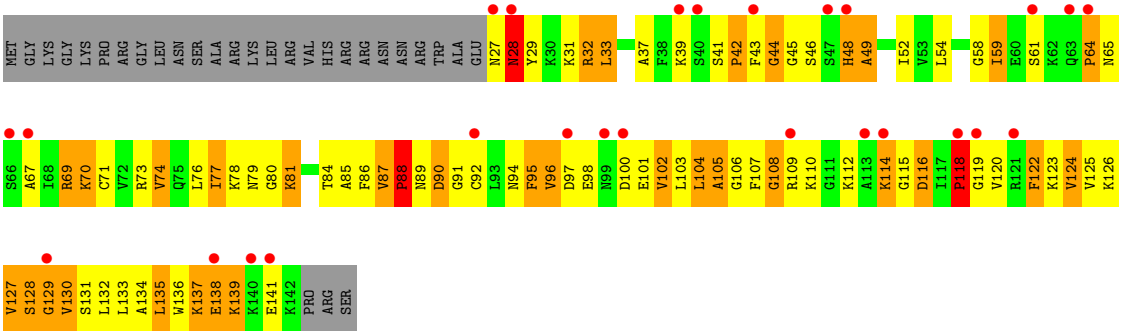




• Molecule 17: 40S ribosomal protein S23

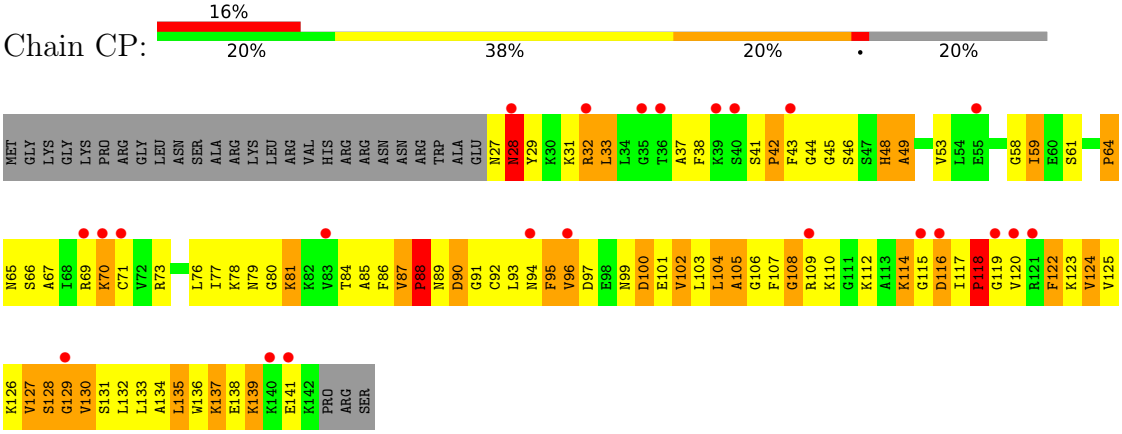
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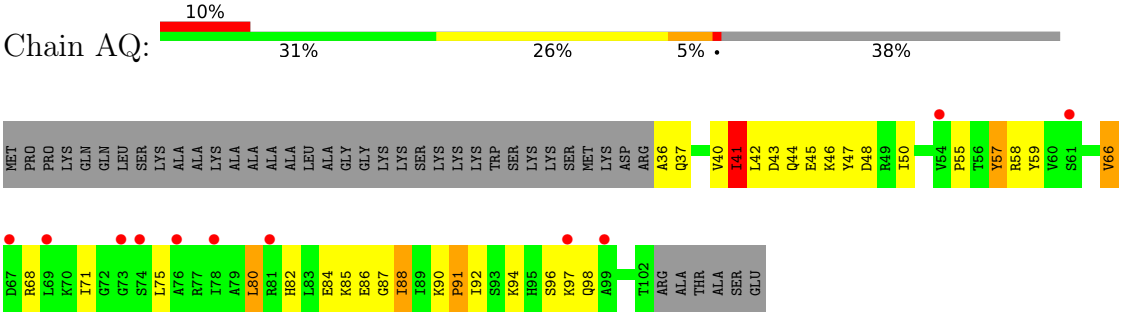
• Molecule 17: 40S ribosomal protein S23

Chain CP:



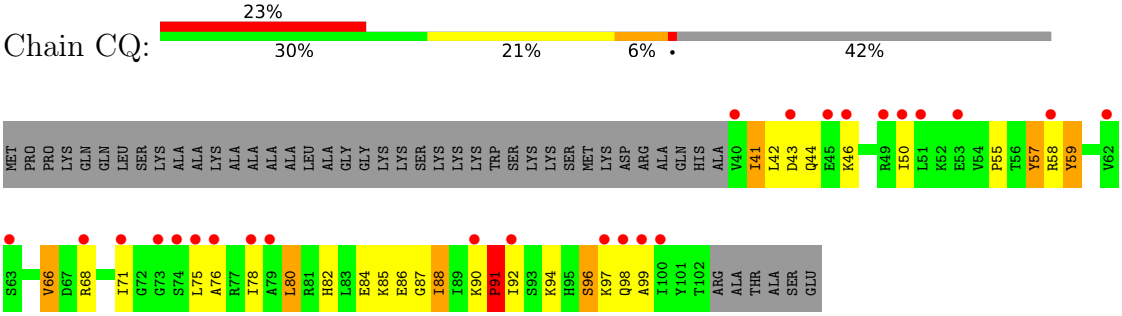
• Molecule 18: 40S ribosomal protein S25-A

Chain AQ:



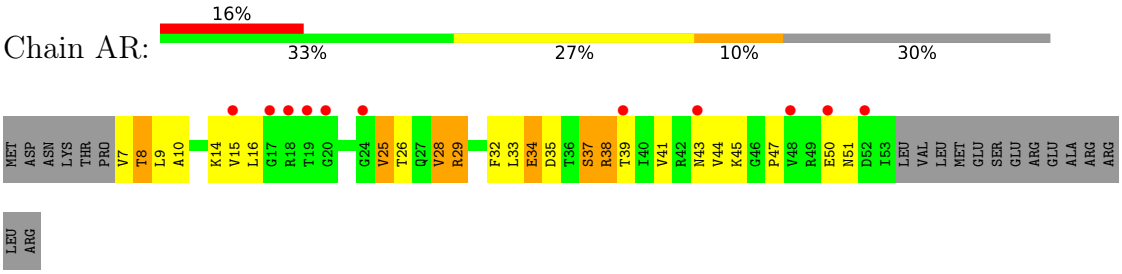
• Molecule 18: 40S ribosomal protein S25-A

Chain CQ:



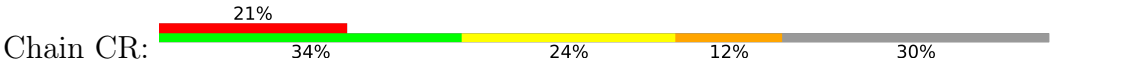
• Molecule 19: 40S ribosomal protein S28-A

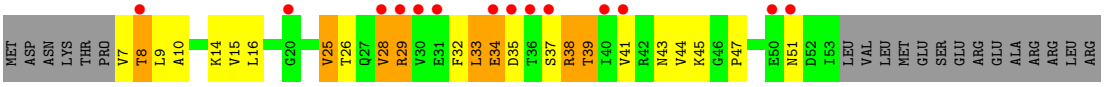
Chain AR:



• Molecule 19: 40S ribosomal protein S28-A

Chain CR:

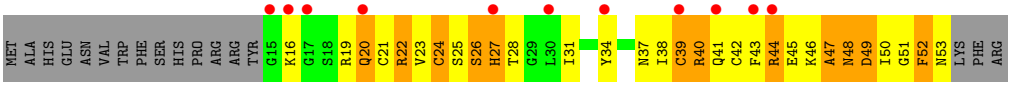




• Molecule 20: 40S ribosomal protein S29-A

Chain AS:

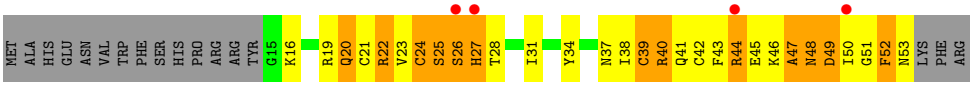




• Molecule 20: 40S ribosomal protein S29-A

Chain CS:

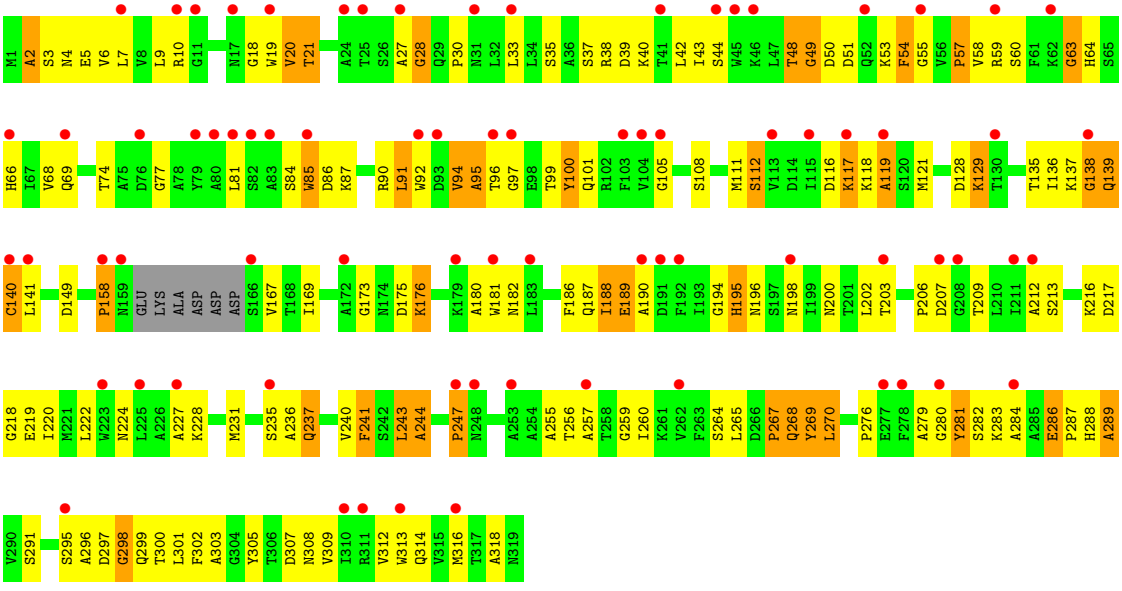




• Molecule 21: Guanine nucleotide-binding protein subunit beta-like protein; RACK-1

Chain AT:

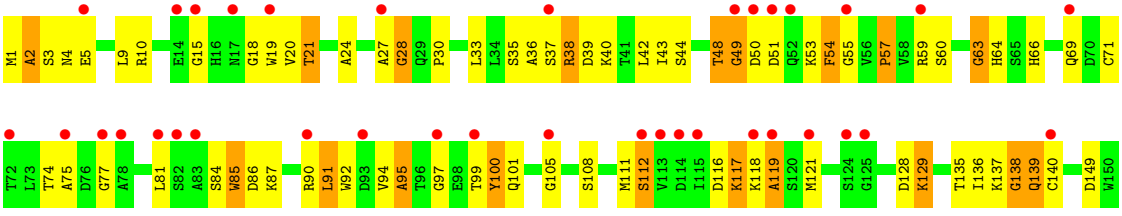


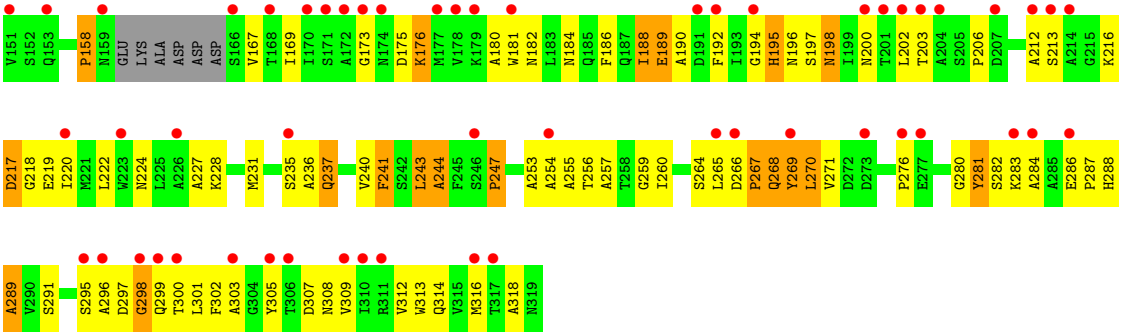


• Molecule 21: Guanine nucleotide-binding protein subunit beta-like protein; RACK-1

Chain CT:



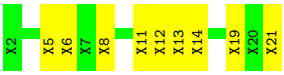




• Molecule 22: Unassigned secondary structure

Chain Aa:





• Molecule 22: Unassigned secondary structure

Chain Bo:

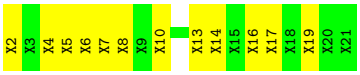




• Molecule 22: Unassigned secondary structure

Chain Ca:

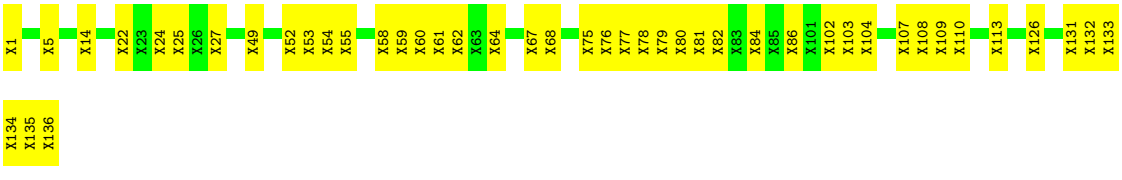




• Molecule 23: Unassigned secondary structure

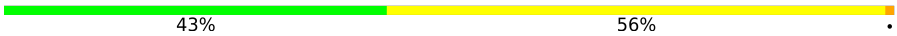
Chain Ab:



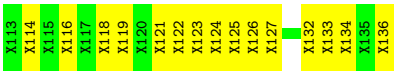


• Molecule 23: Unassigned secondary structure

Chain Cb:



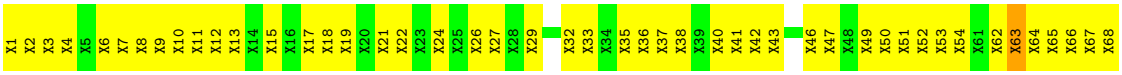


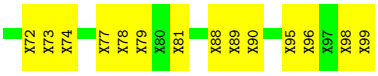


• Molecule 24: Unassigned secondary structure

Chain Ac:

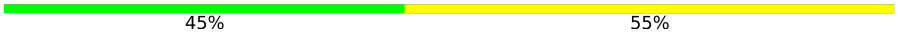


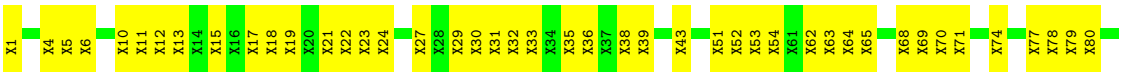


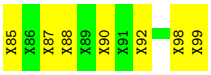


• Molecule 24: Unassigned secondary structure

Chain Cc:







• Molecule 25: Unassigned secondary structure

Chain Ad:

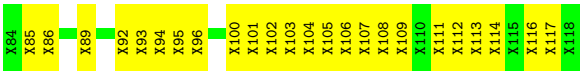




• Molecule 25: Unassigned secondary structure

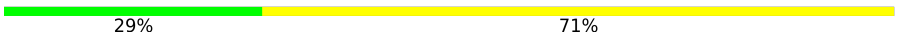
Chain Cd:

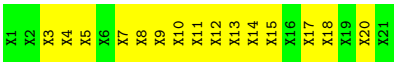




• Molecule 26: Unassigned secondary structure

Chain Ae:

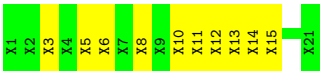




• Molecule 26: Unassigned secondary structure

Chain Bj:





• Molecule 26: Unassigned secondary structure

Chain Dj:



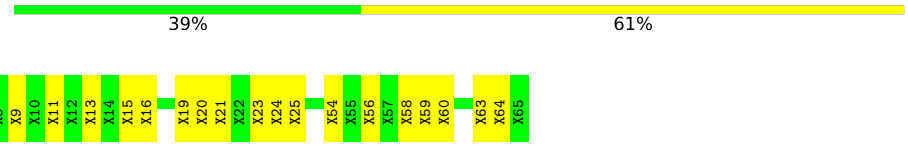
• Molecule 27: Unassigned secondary structure

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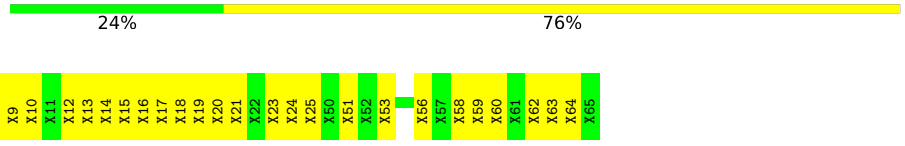
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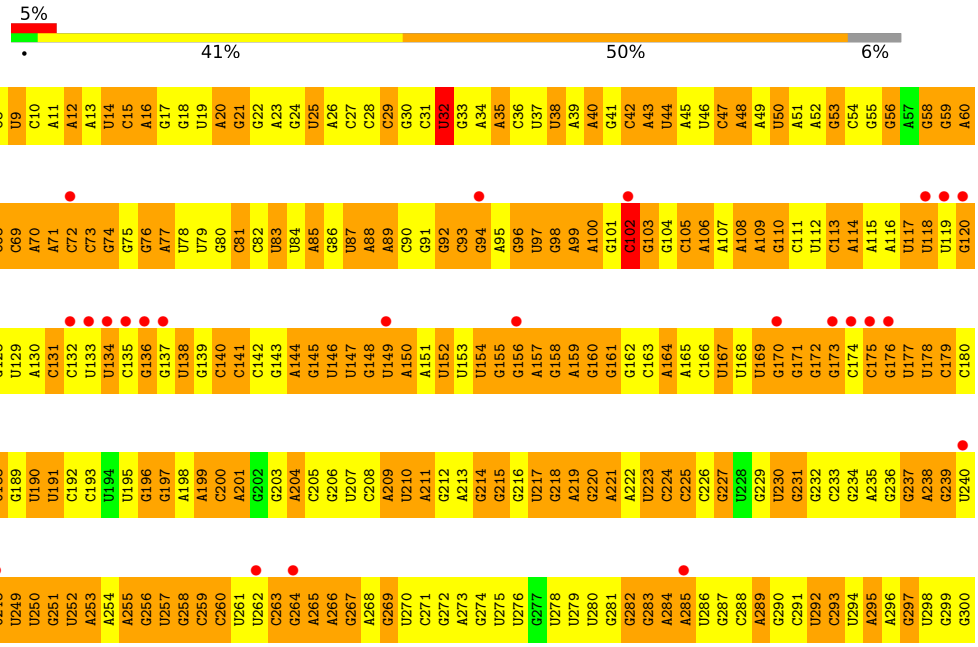
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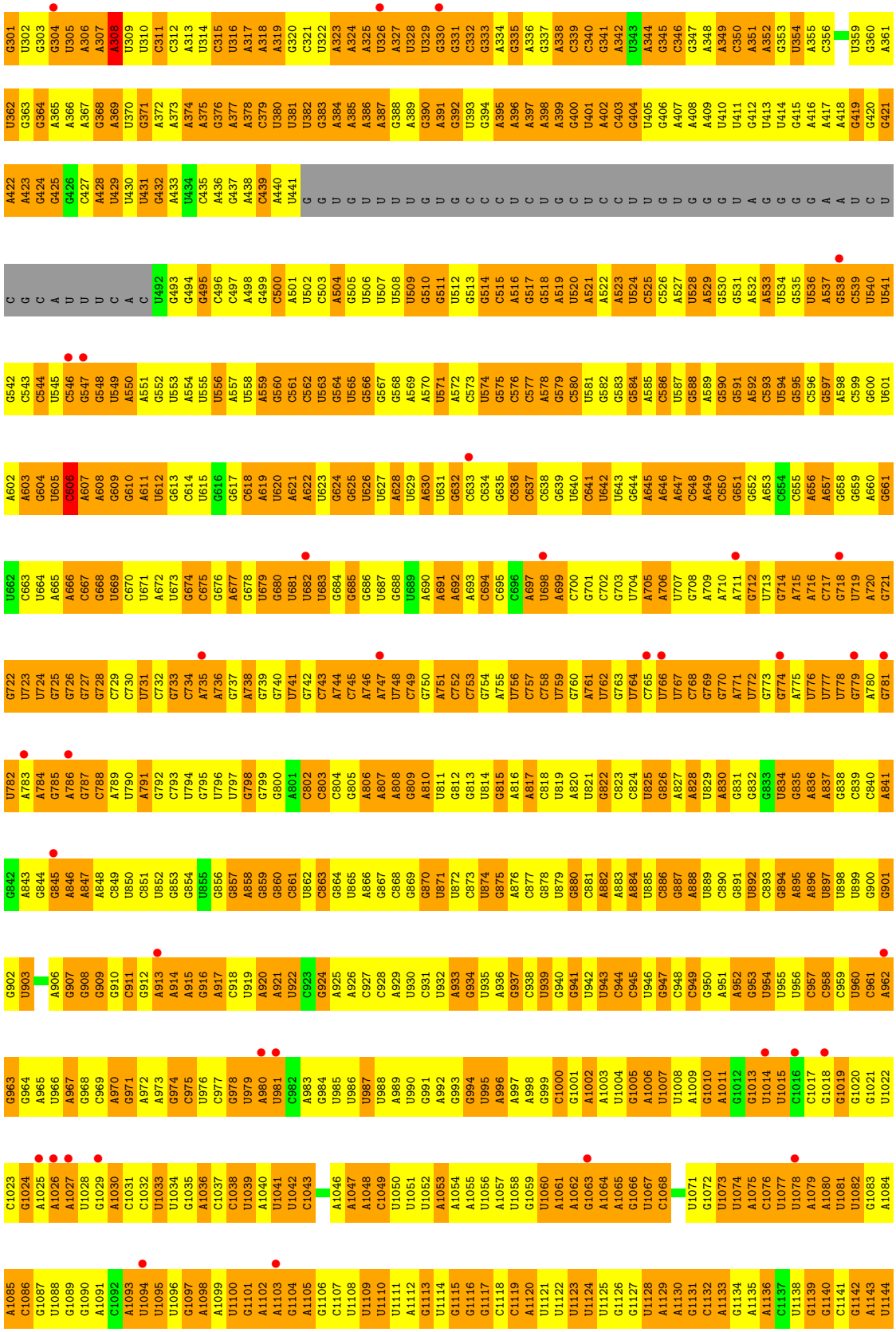
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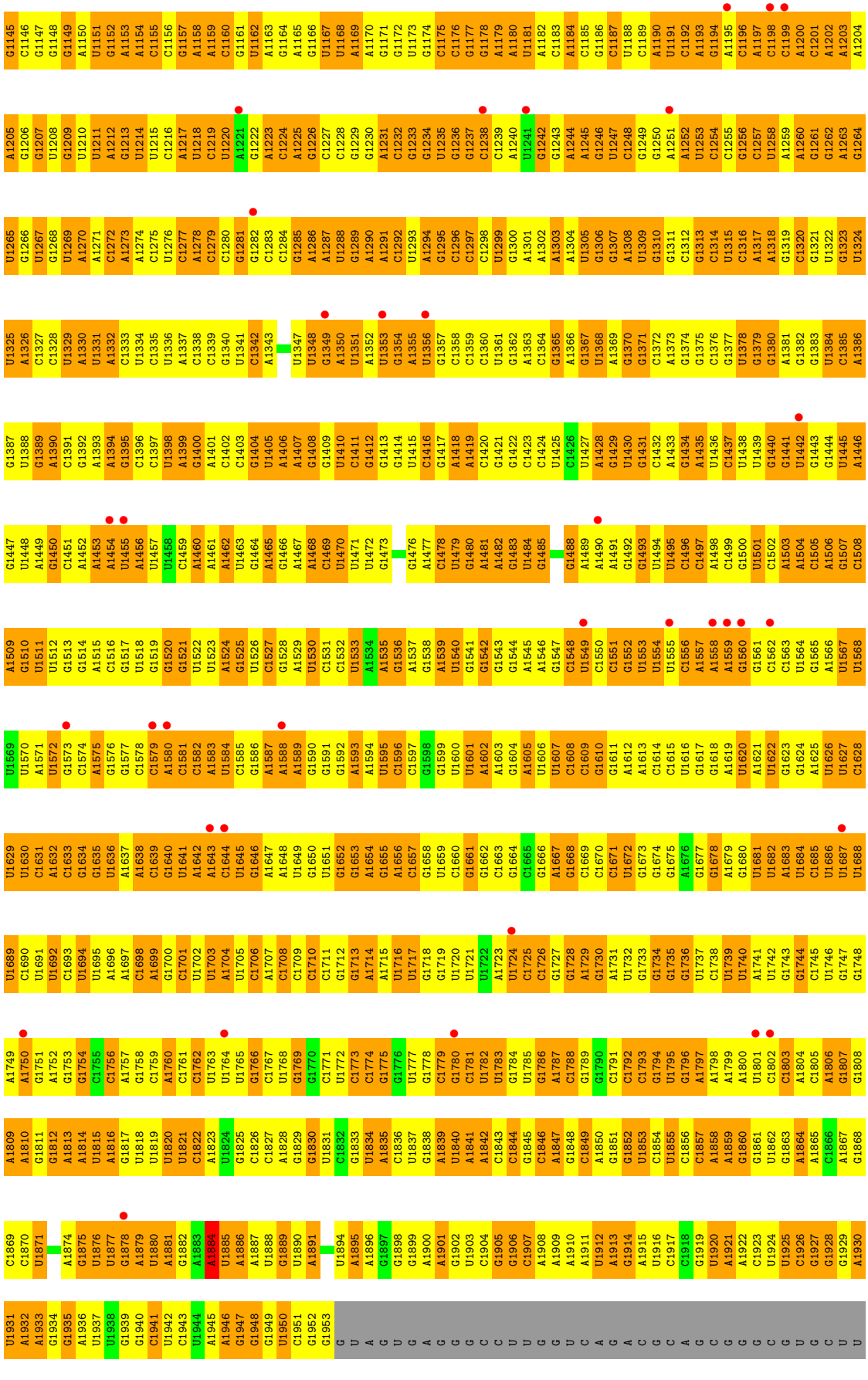


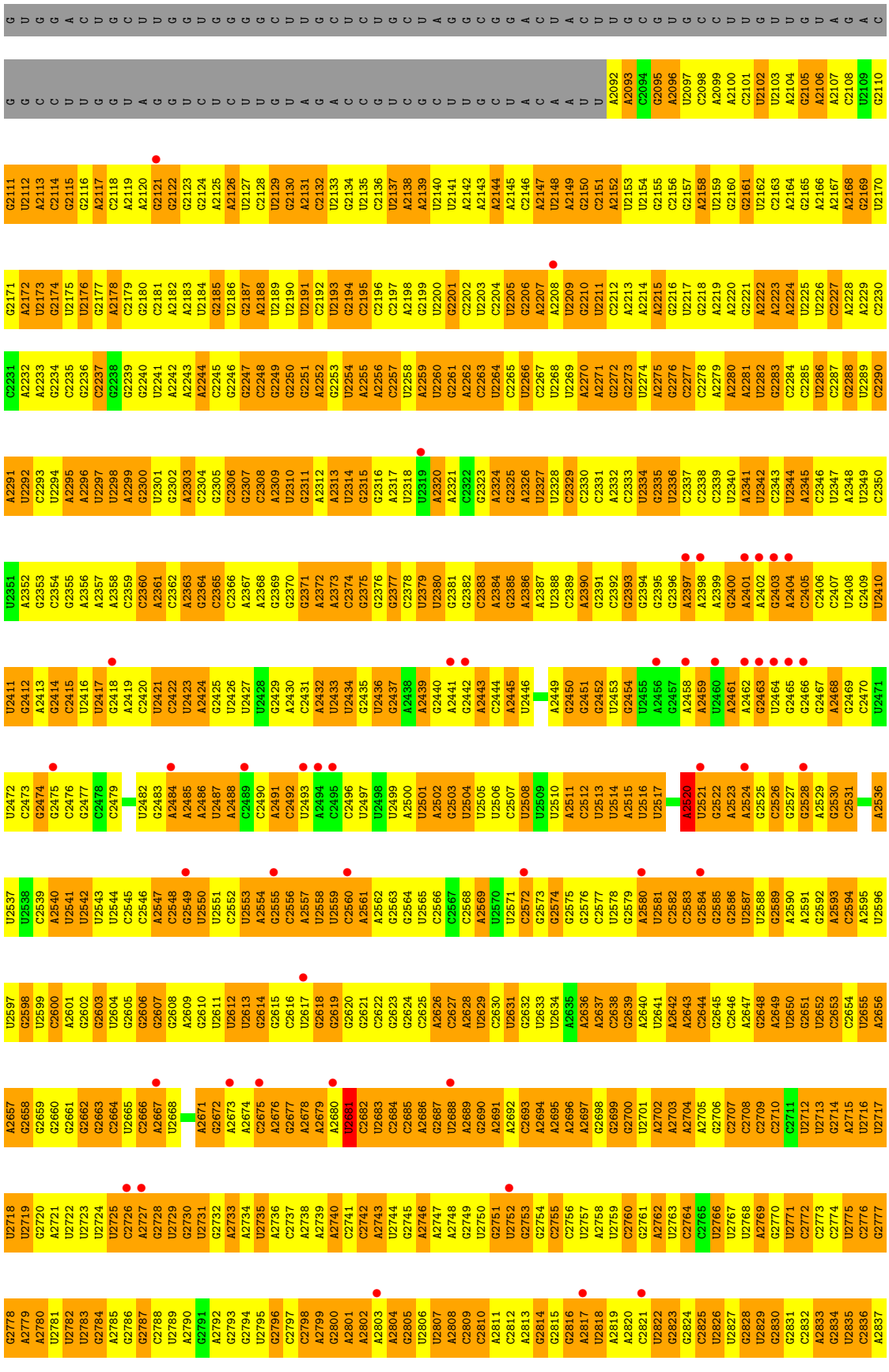
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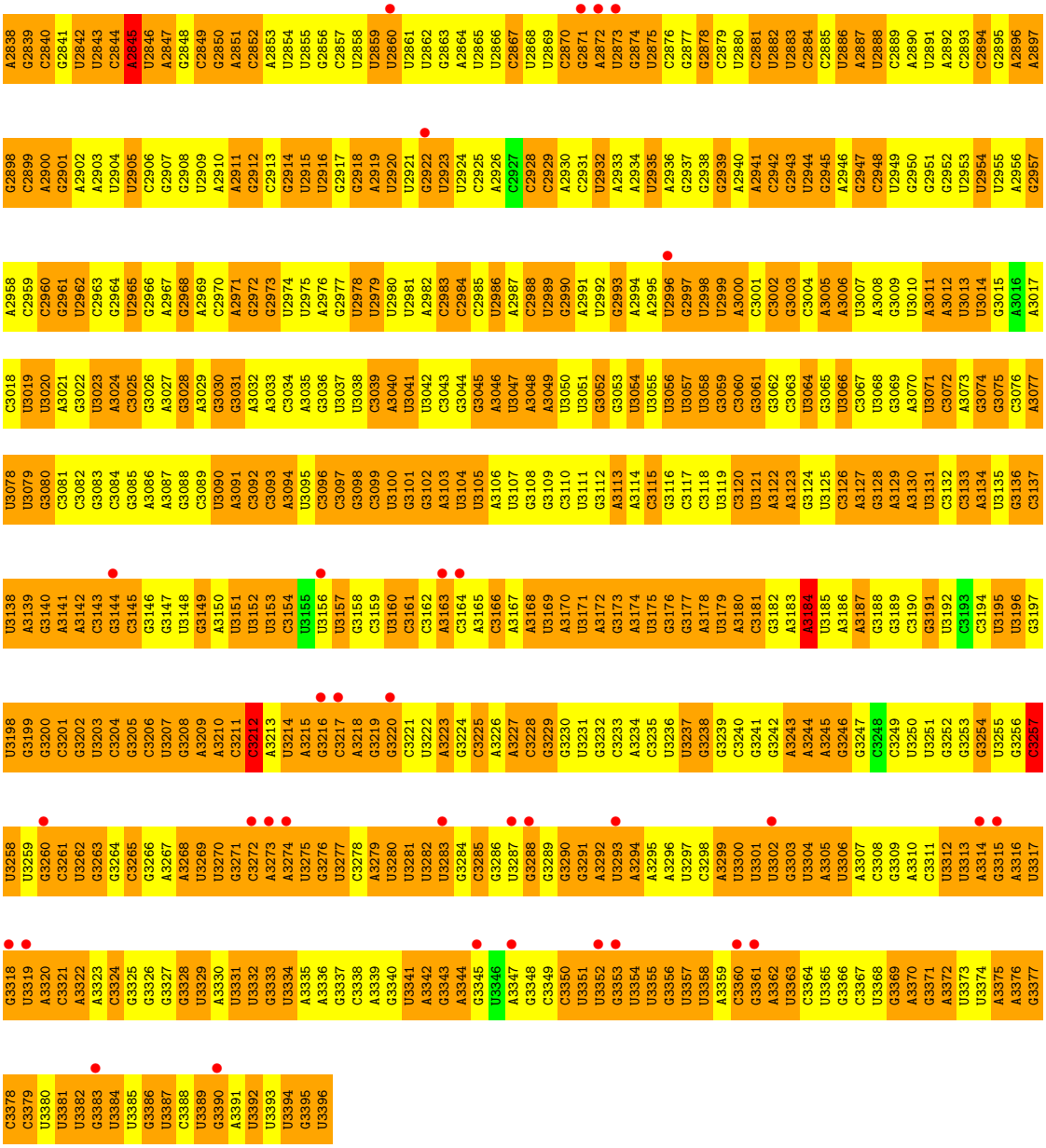
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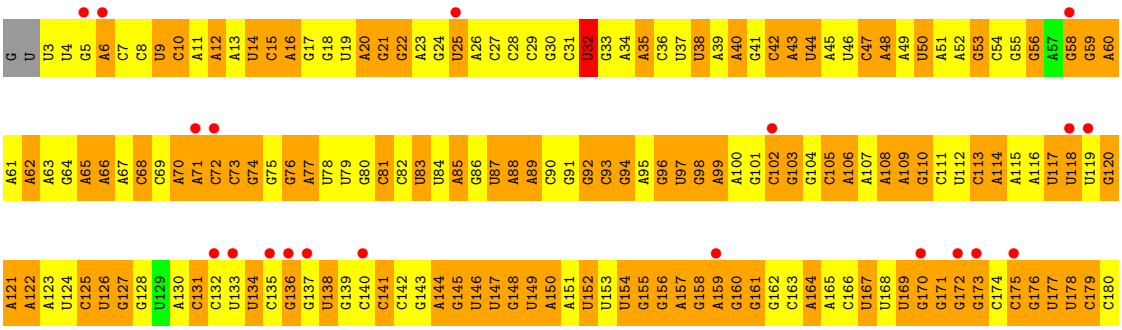


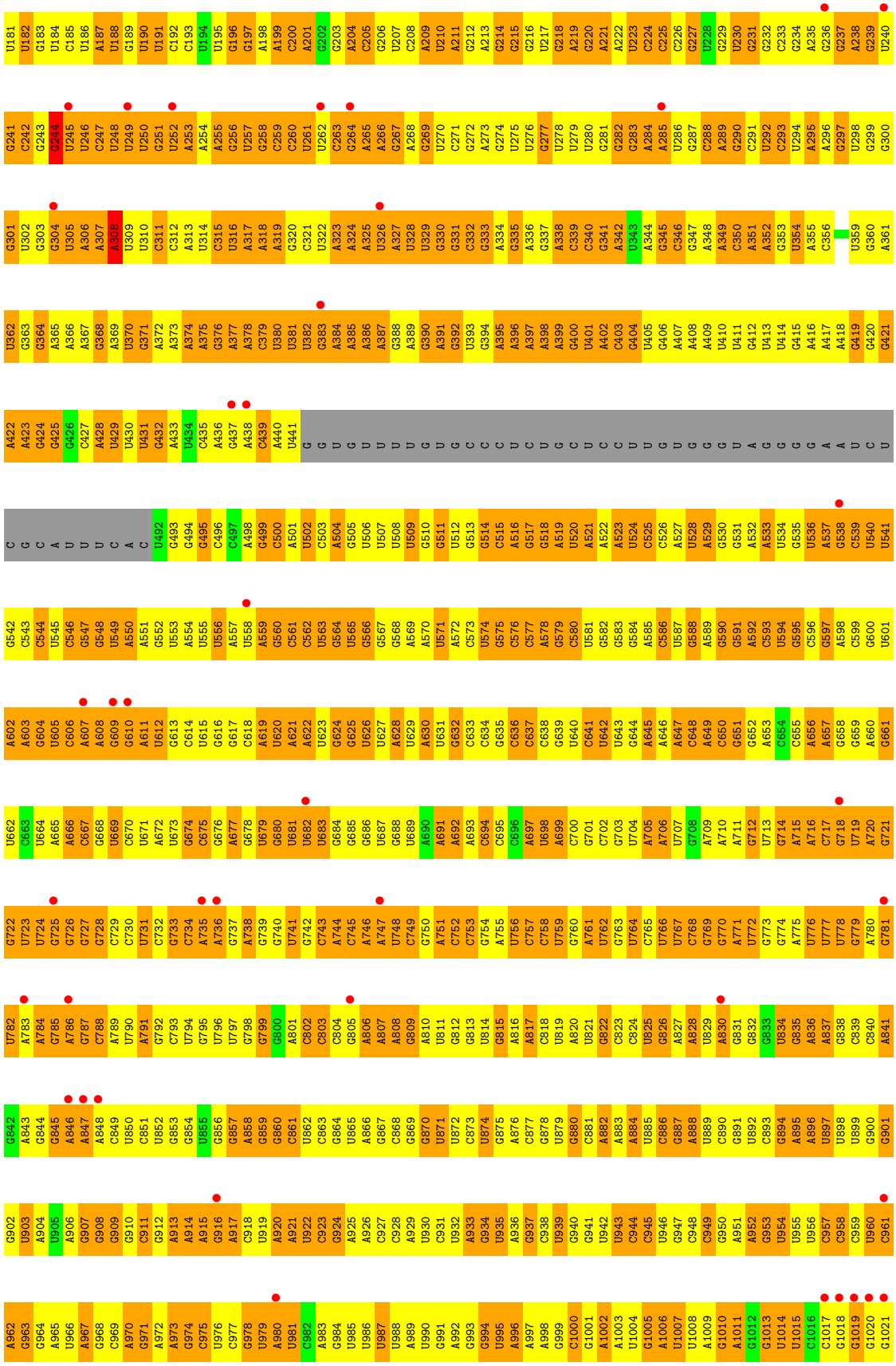


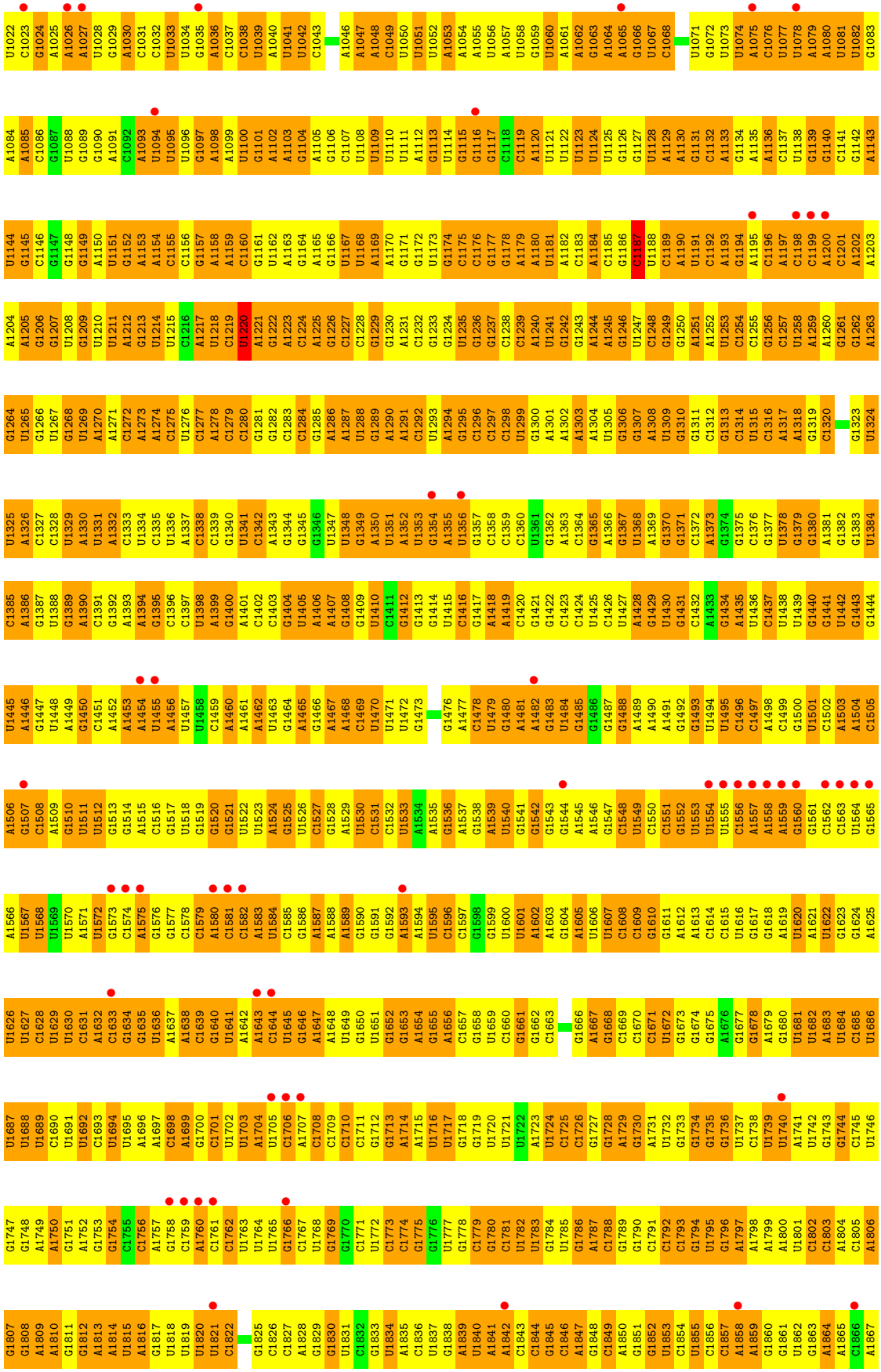
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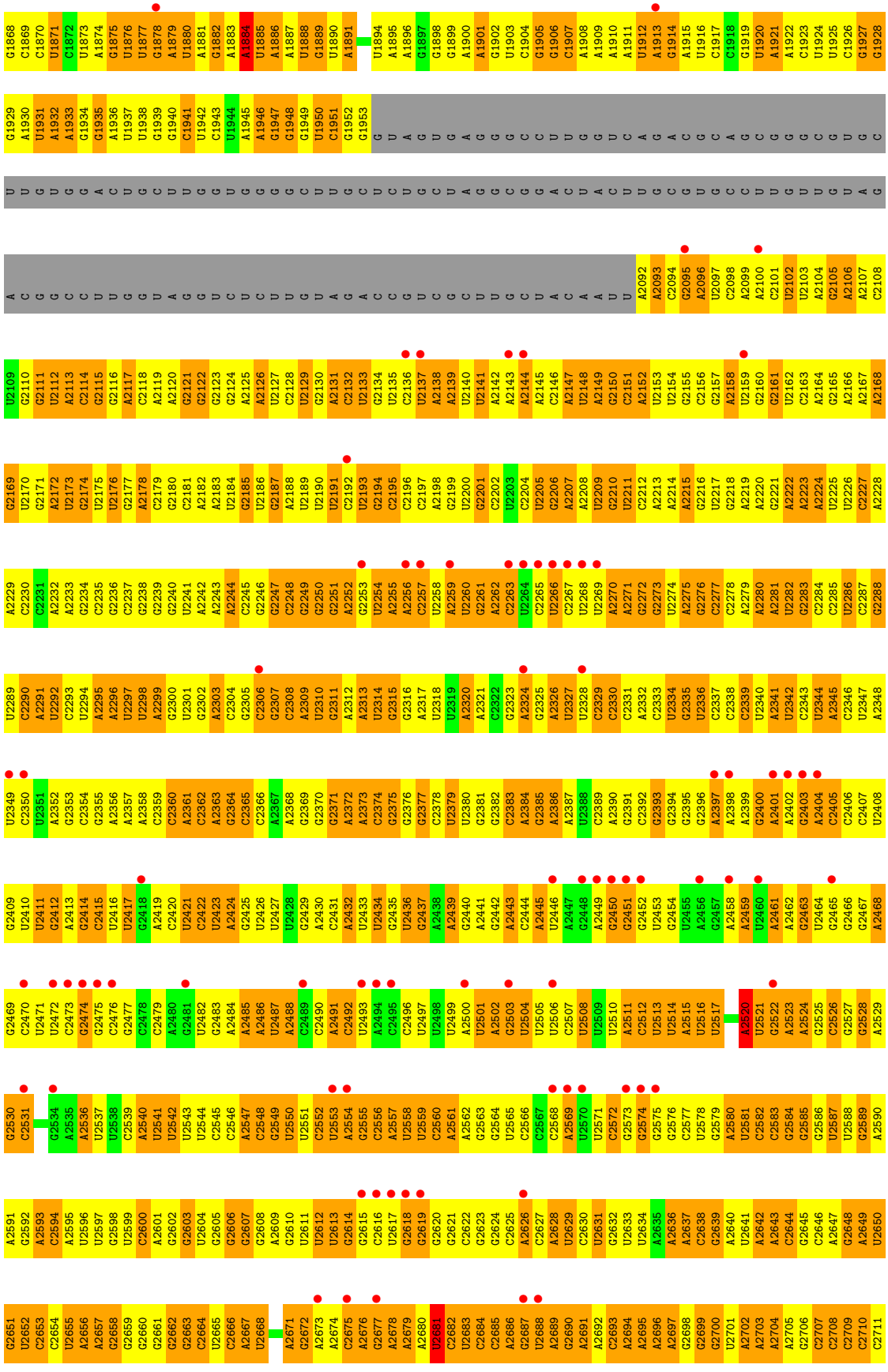
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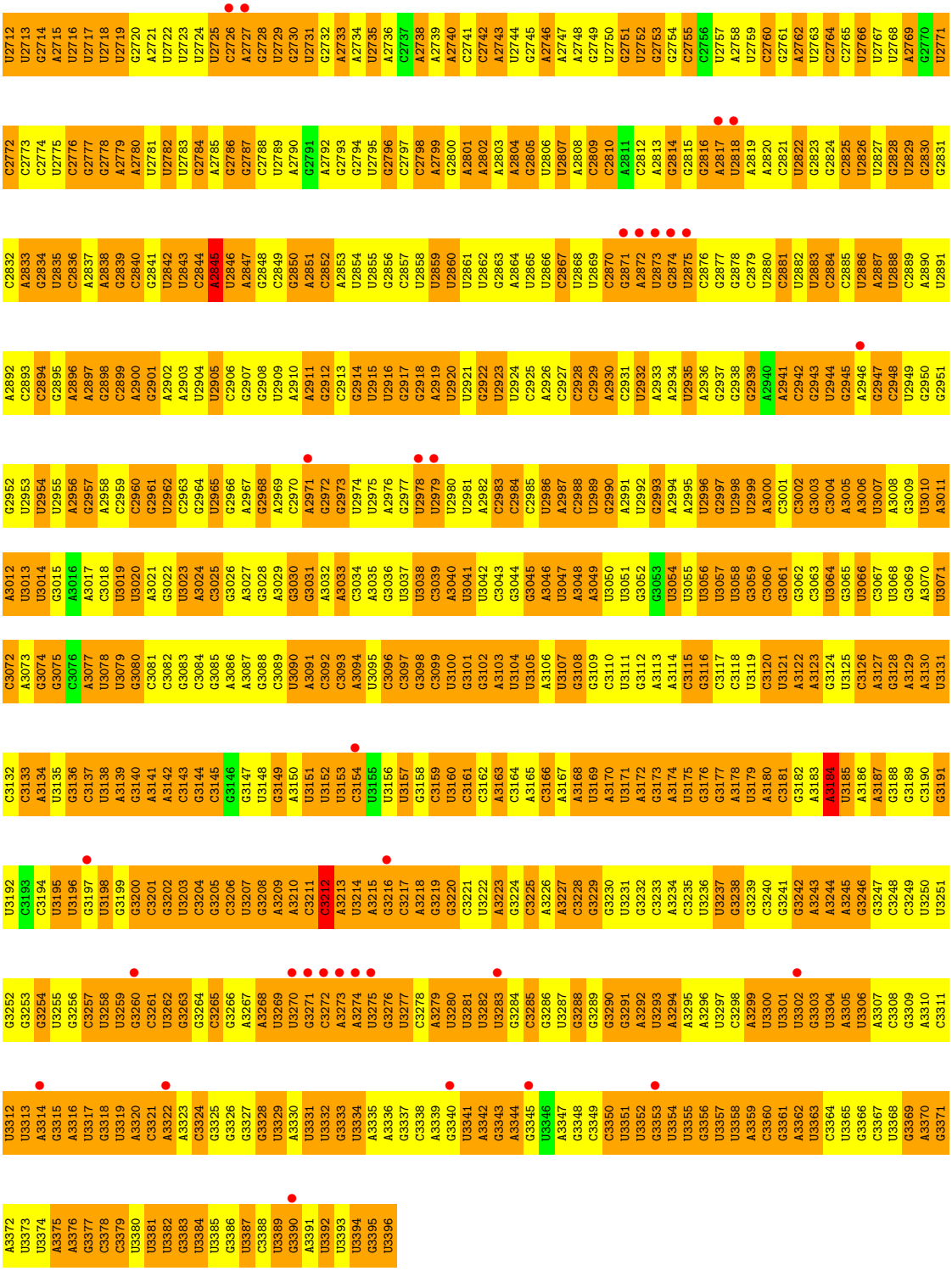







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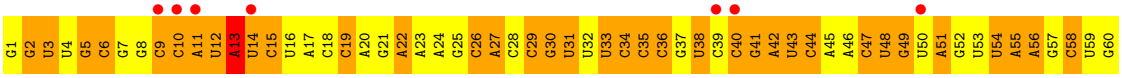

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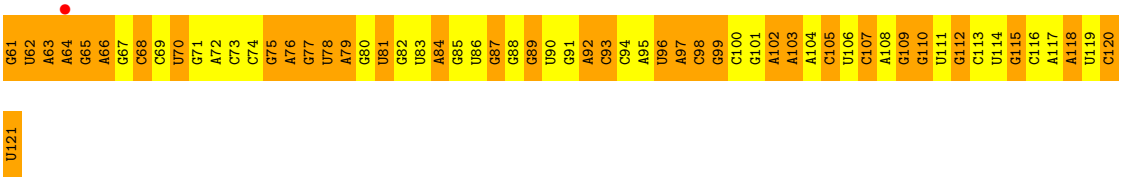


• Molecule 30: 5S ribosomal RNA

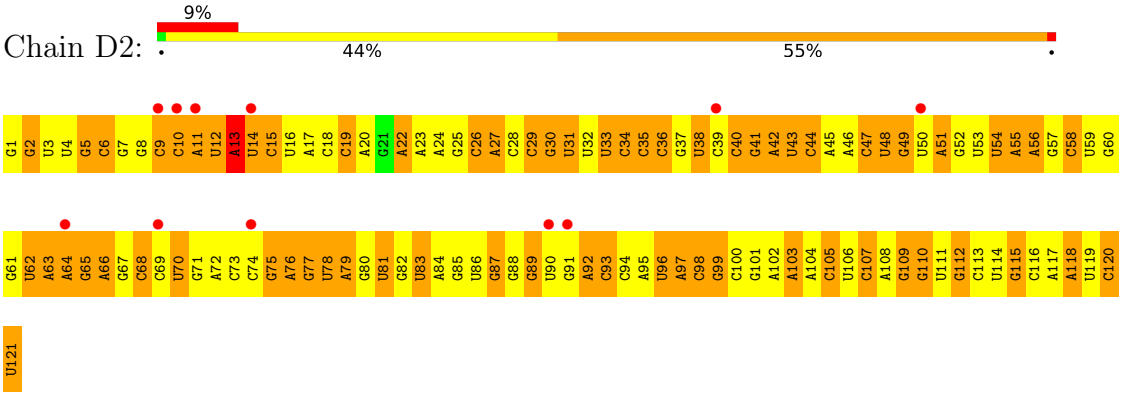
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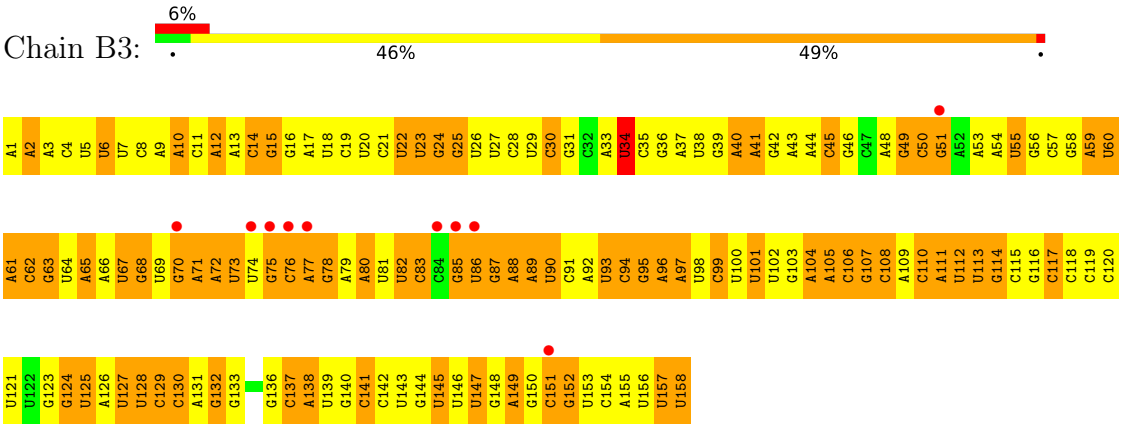




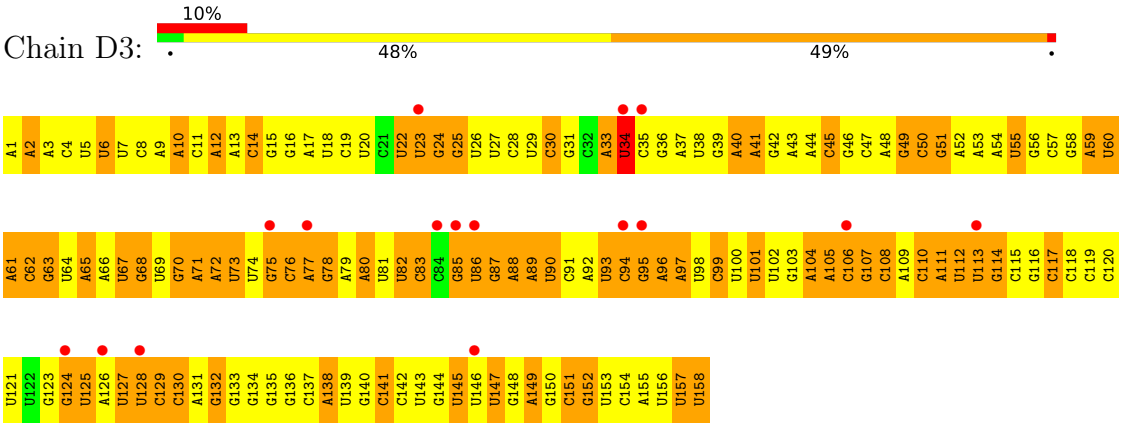
• Molecule 30: 5S ribosomal RNA



• Molecule 31: 5.8S ribosomal RNA

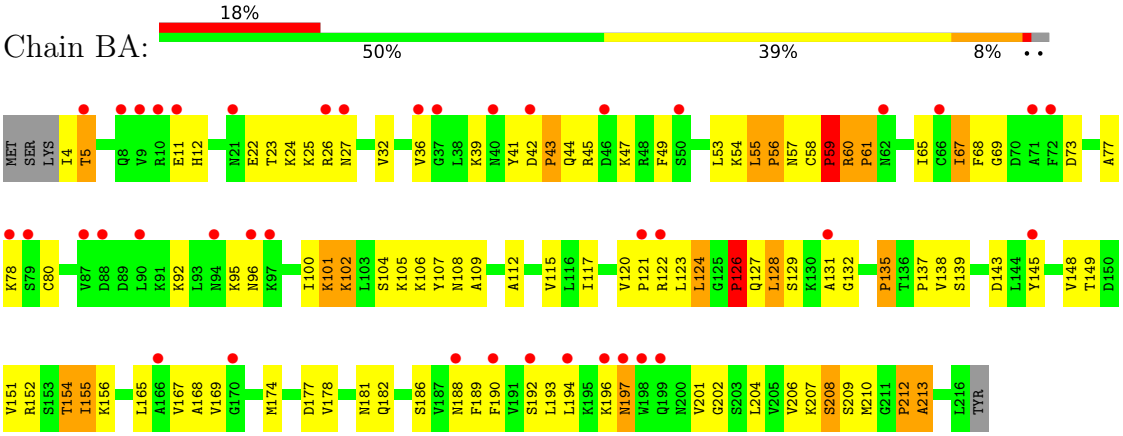


• Molecule 31: 5.8S ribosomal RNA



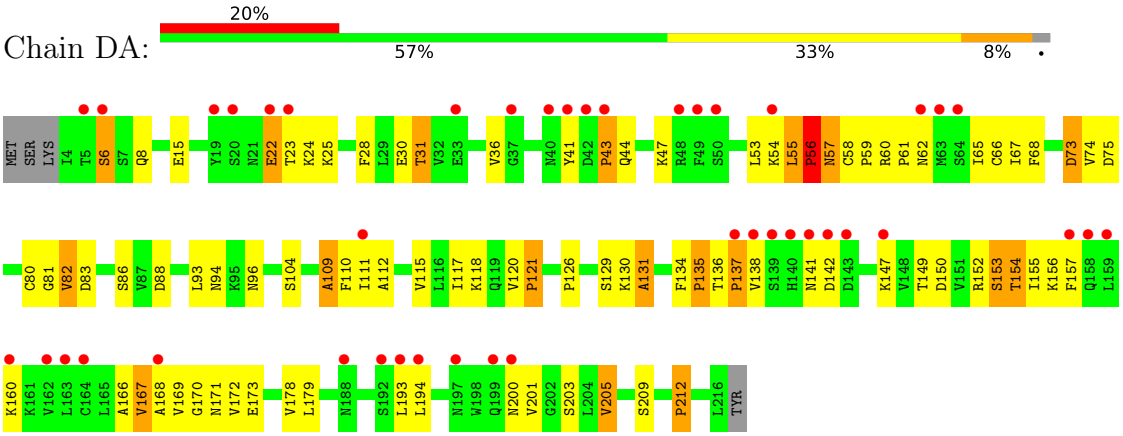
• Molecule 32: 60S ribosomal protein L1

Chain BA:



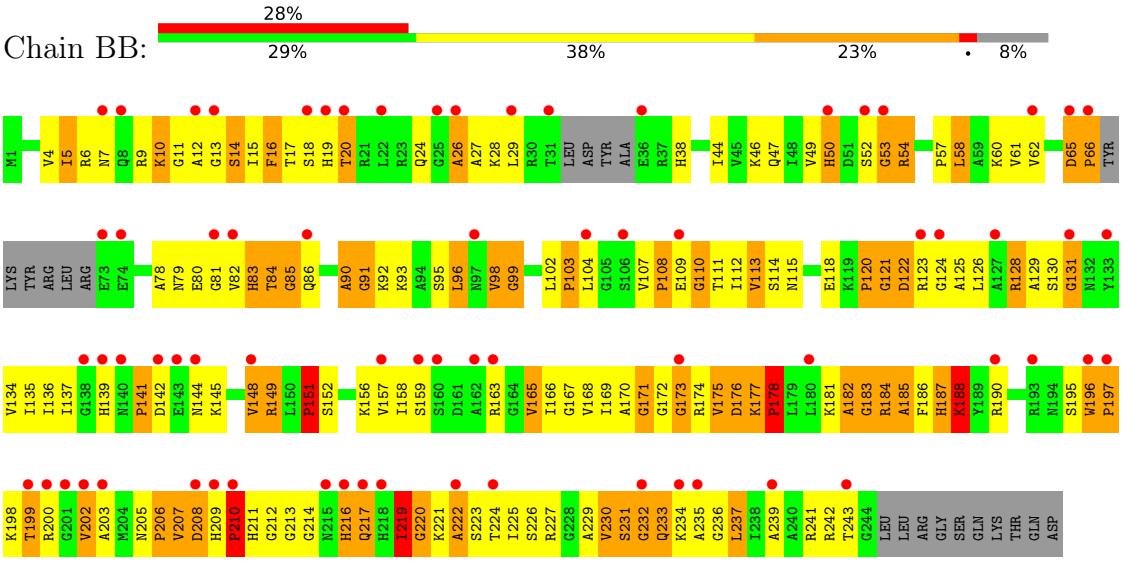
• Molecule 32: 60S ribosomal protein L1

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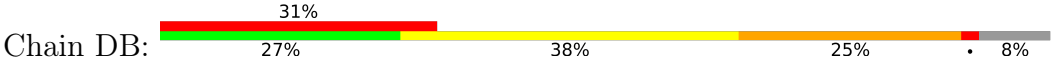
• Molecule 33: 60S ribosomal protein L2

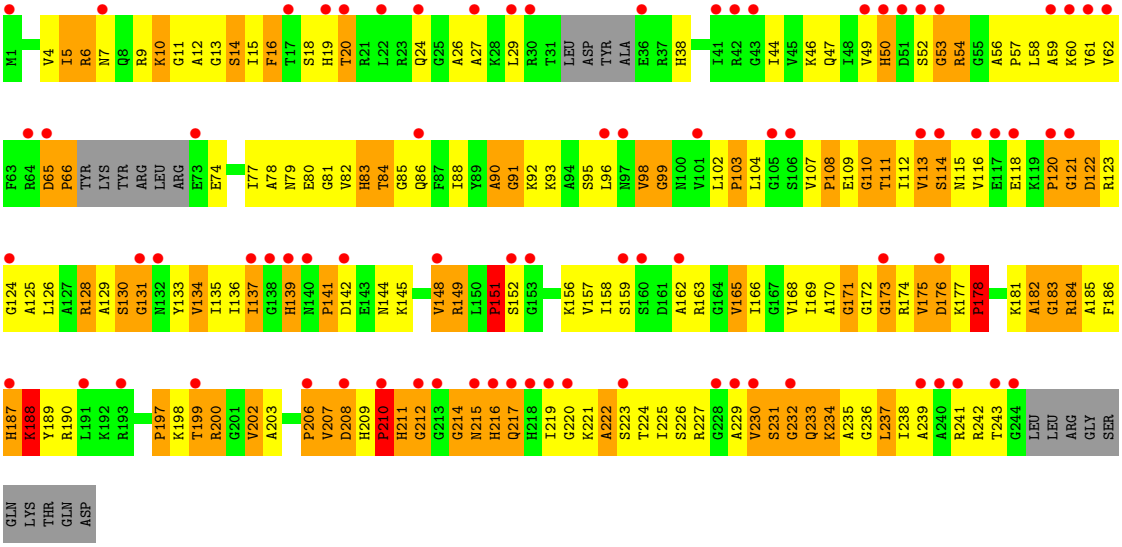
Chain BB:



• Molecule 33: 60S ribosomal protein L2

Chain DB:

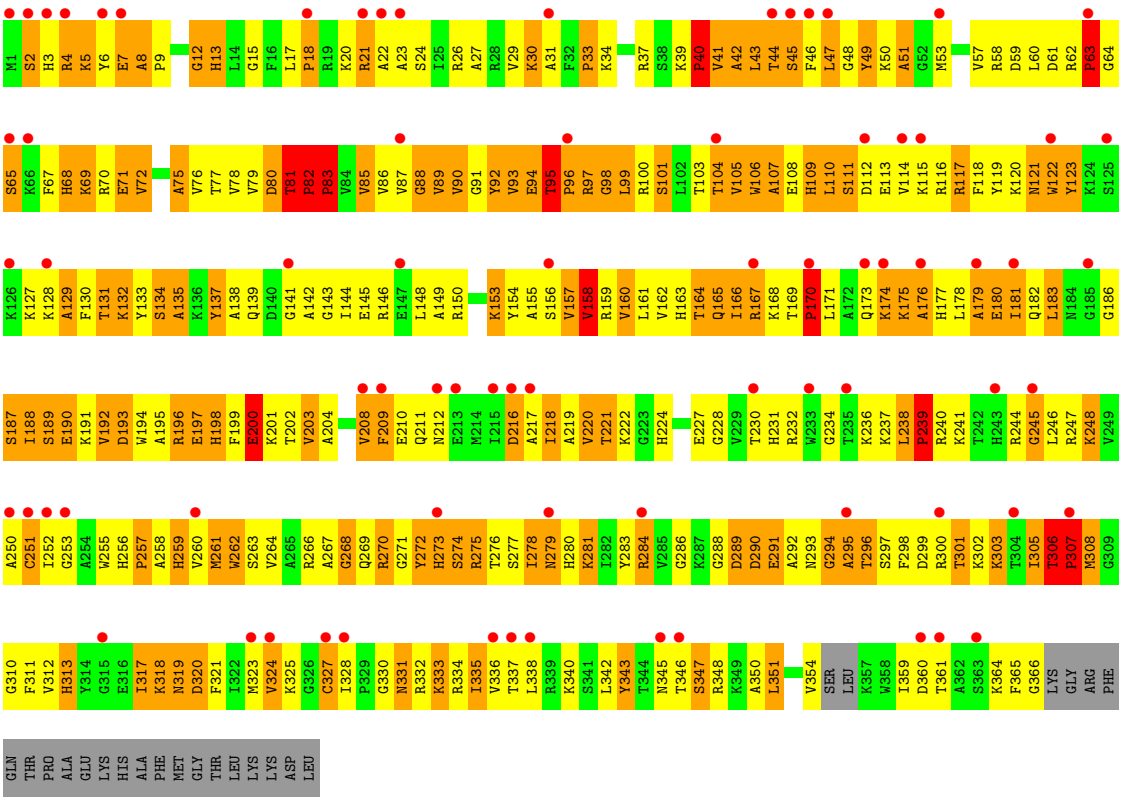




• Molecule 34: 60S ribosomal protein L3

Chain BC:

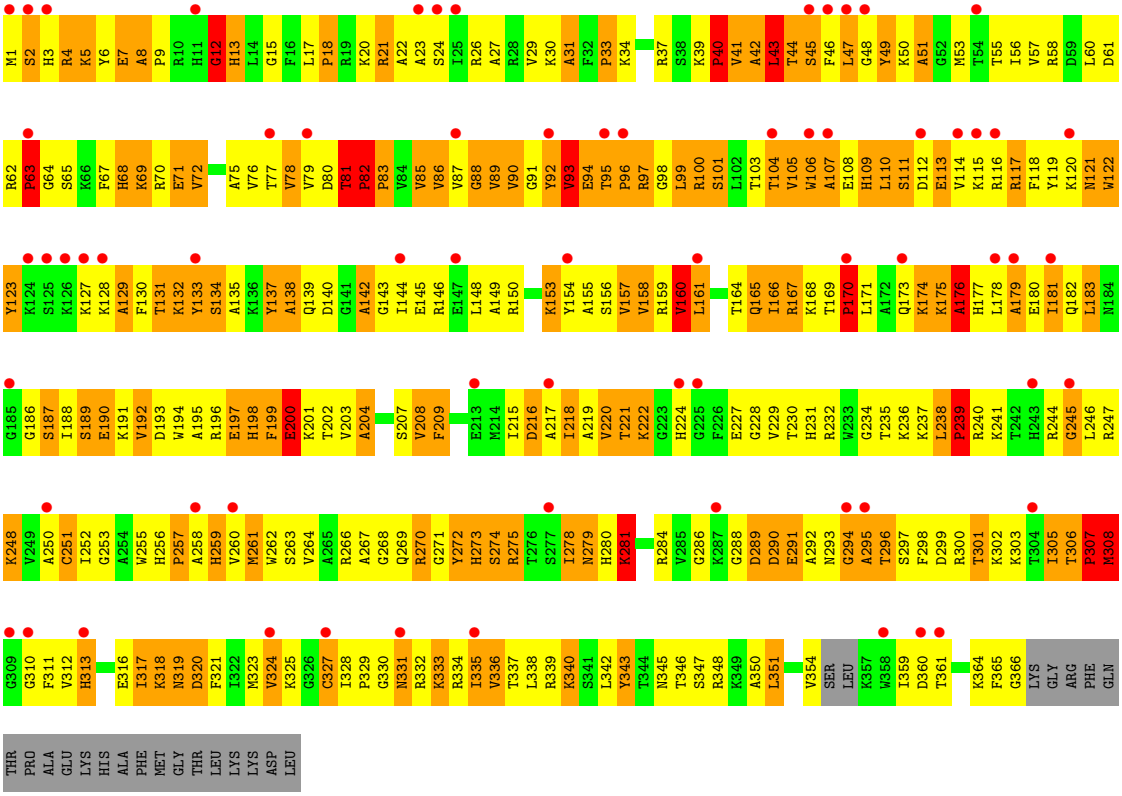




• Molecule 34: 60S ribosomal protein L3

Chain DC:

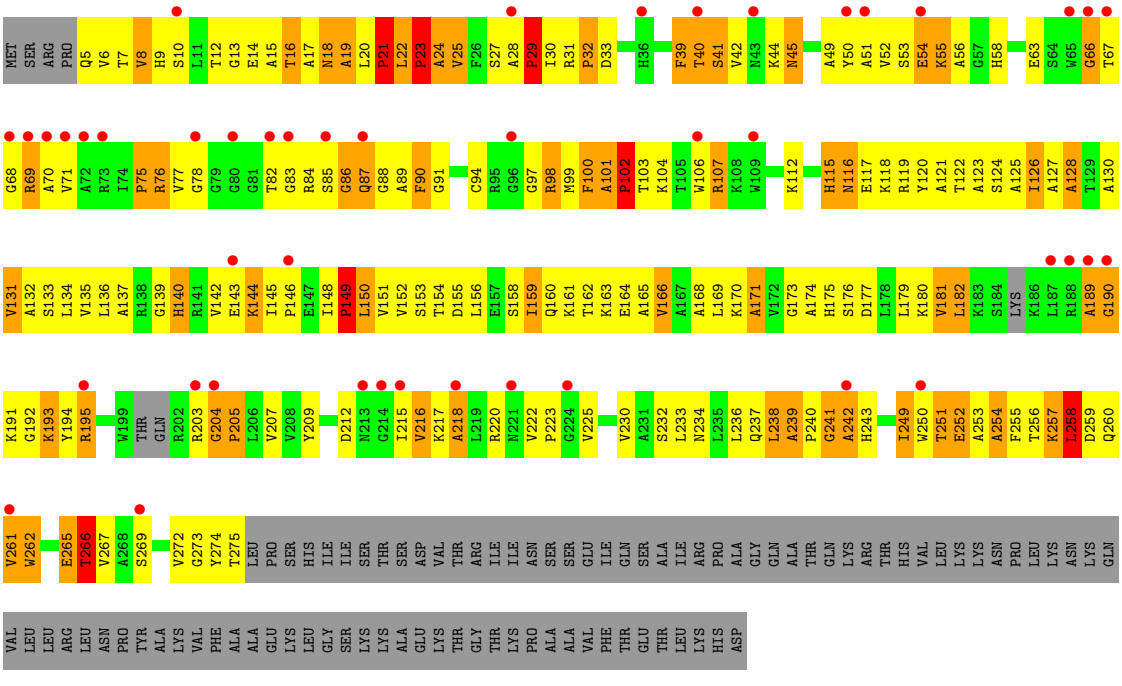




• Molecule 35: 60S ribosomal protein L4-A

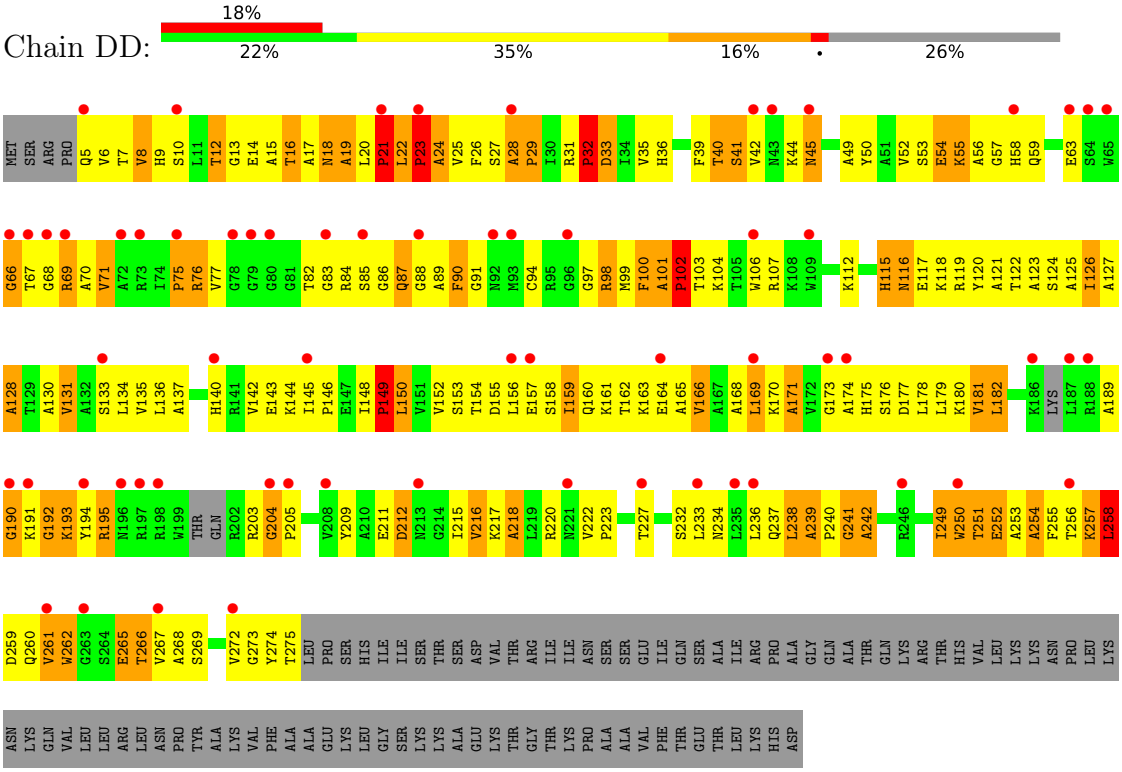
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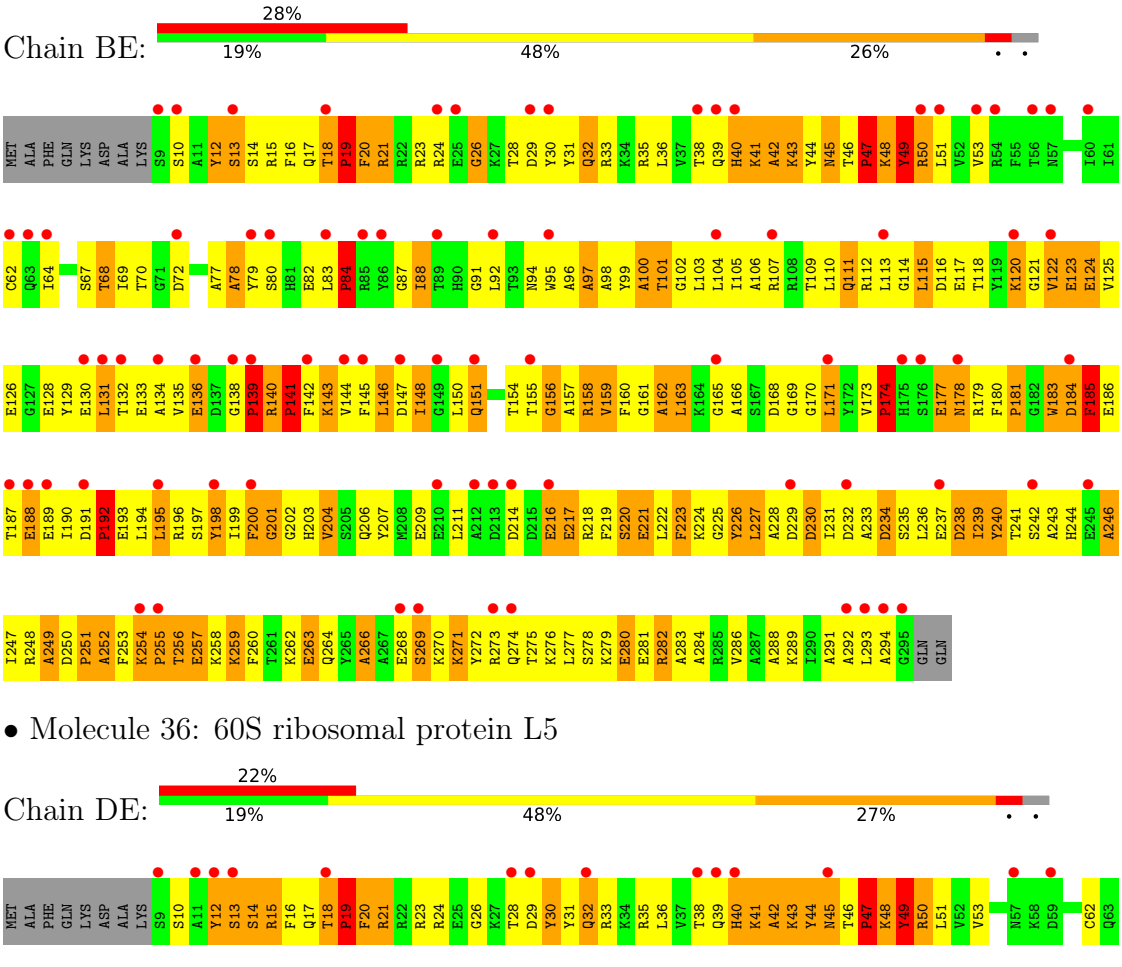
• Molecule 35: 60S ribosomal protein L4-A

Chain DD:



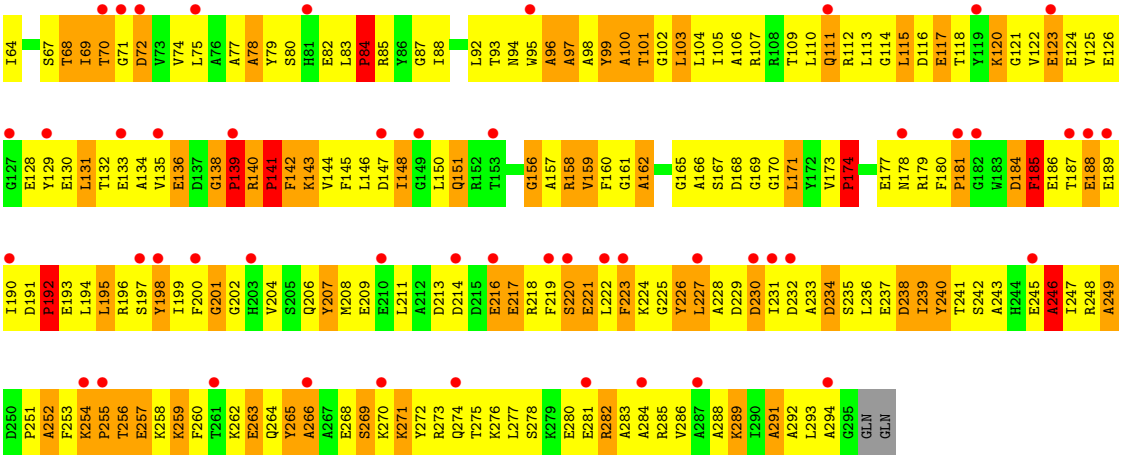
• Molecule 36: 60S ribosomal protein L5

Chain BE:

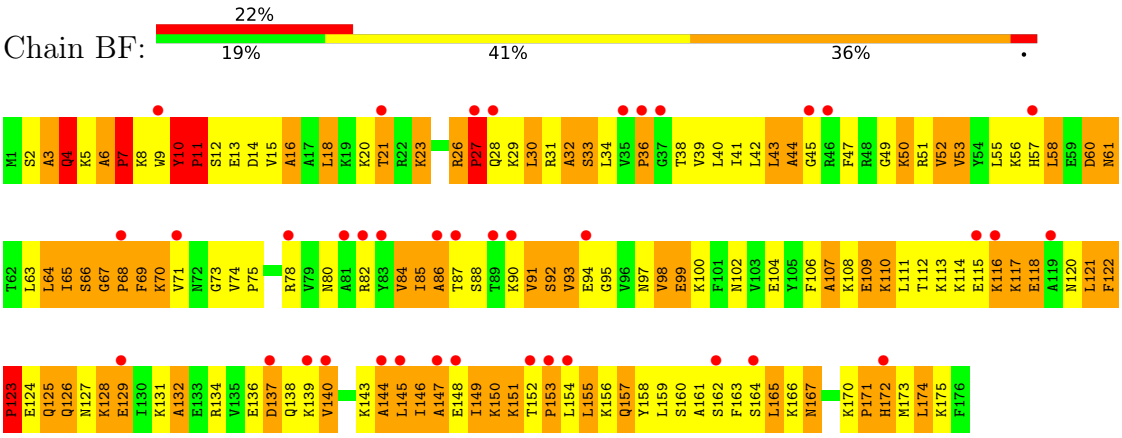


• Molecule 36: 60S ribosomal protein L5

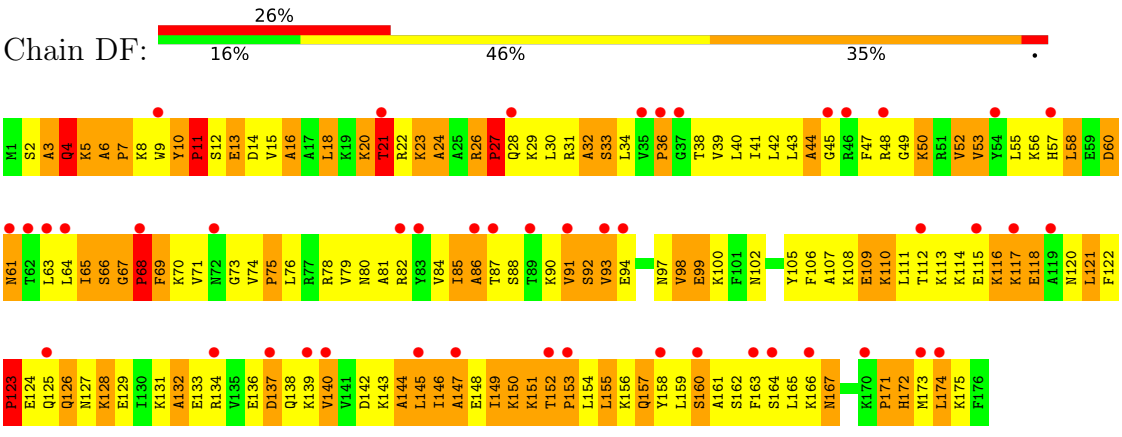
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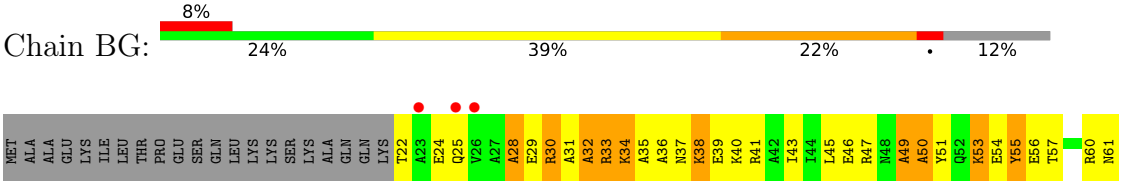
• Molecule 37: 60S ribosomal protein L6-A

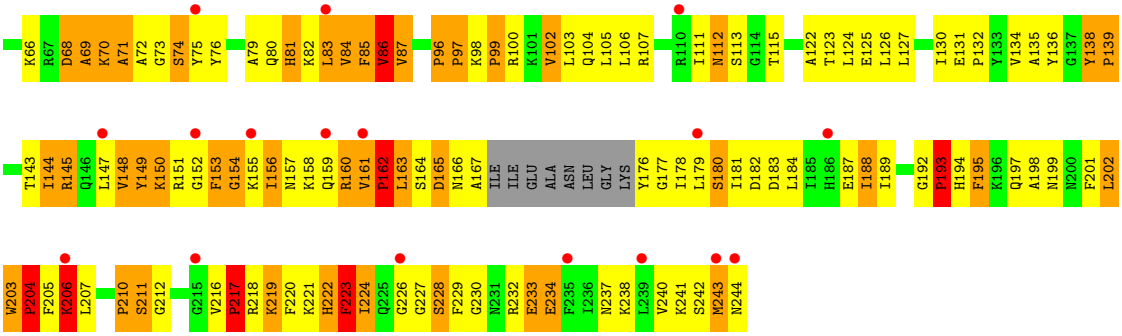


• Molecule 37: 60S ribosomal protein L6-A

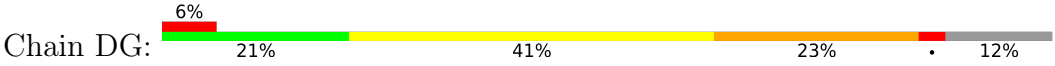


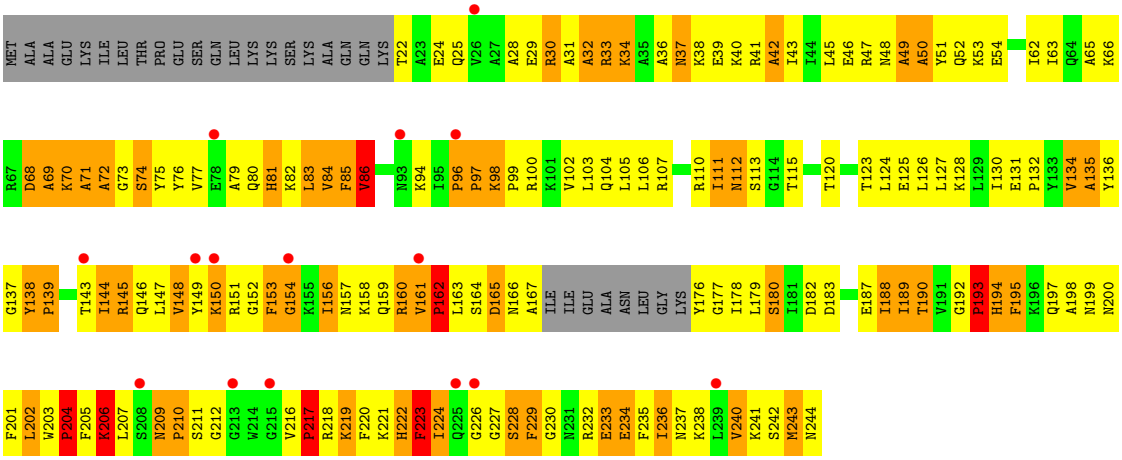
• Molecule 38: 60S ribosomal protein L7-A



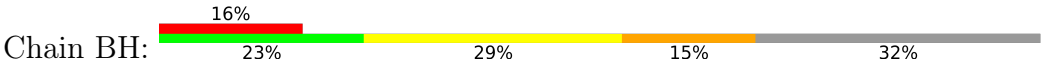


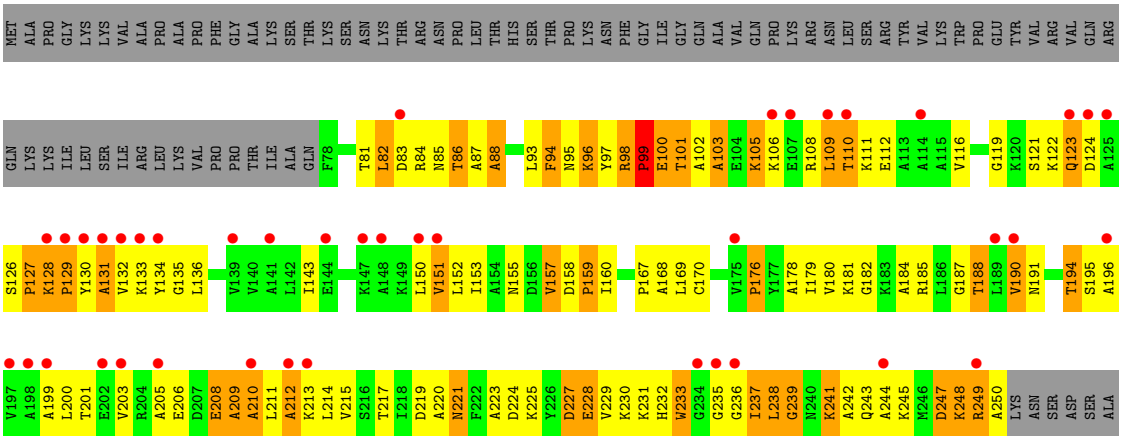
• Molecule 38: 60S ribosomal protein L7-A



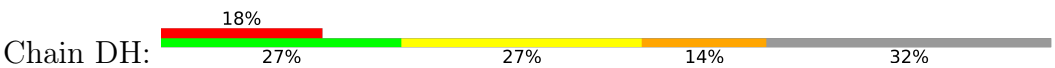


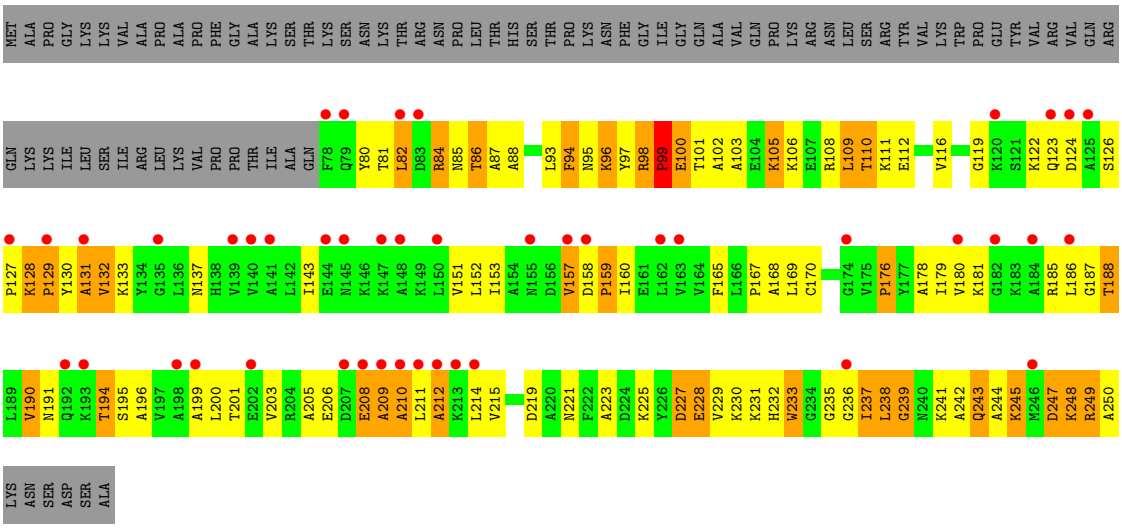
• Molecule 39: 60S ribosomal protein L8-A



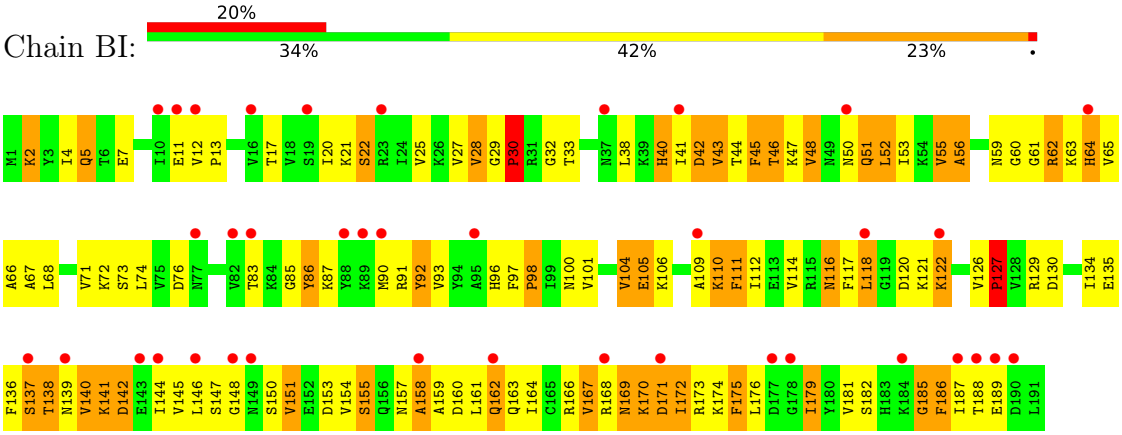


• Molecule 39: 60S ribosomal protein L8-A

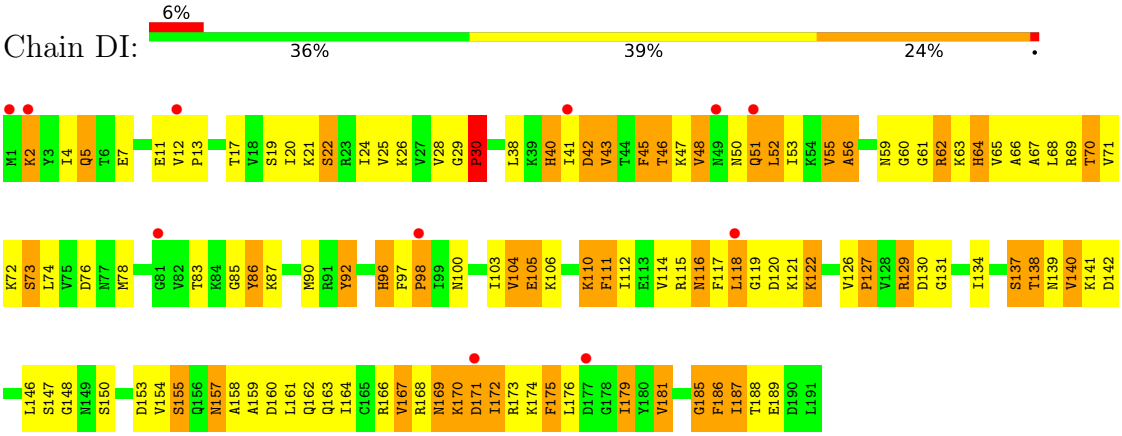




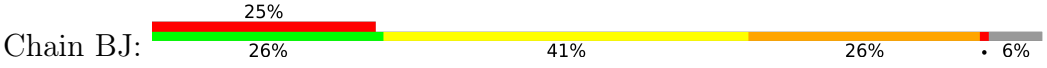
• Molecule 40: 60S ribosomal protein L9-A

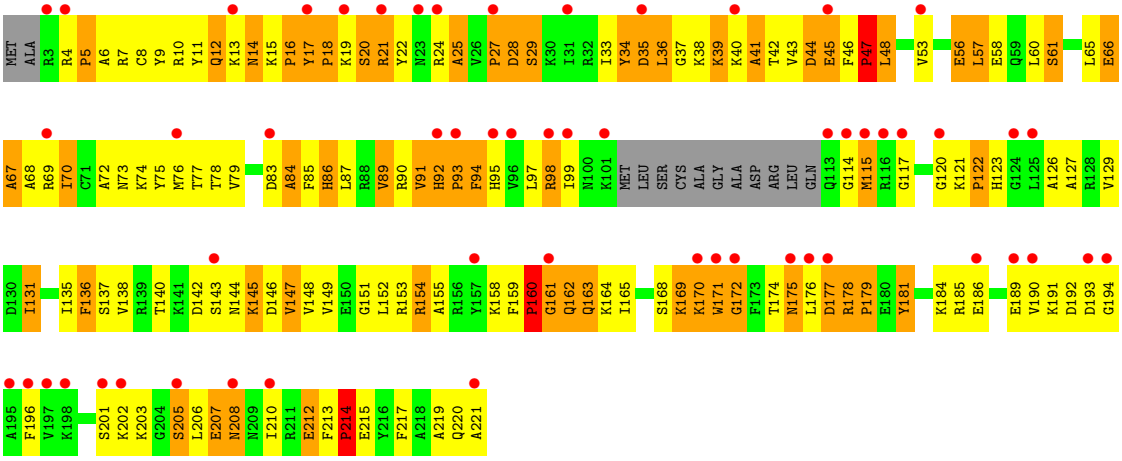


• Molecule 40: 60S ribosomal protein L9-A



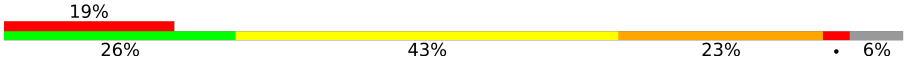
• Molecule 41: 60S ribosomal protein L10

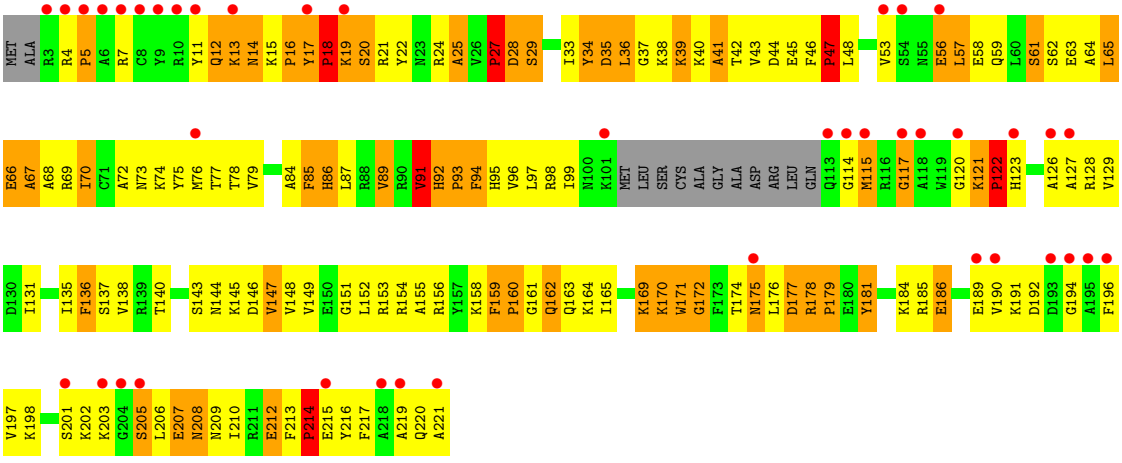




• Molecule 41: 60S ribosomal protein L10

Chain DJ:

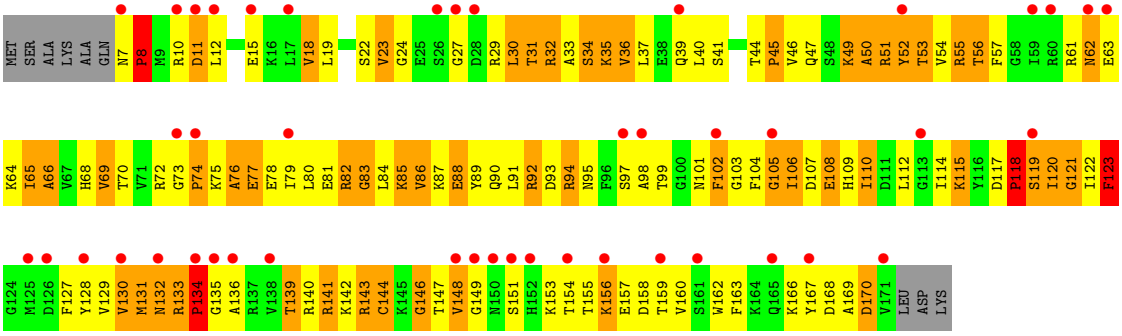




• Molecule 42: 60S ribosomal protein L11-A

Chain BK:

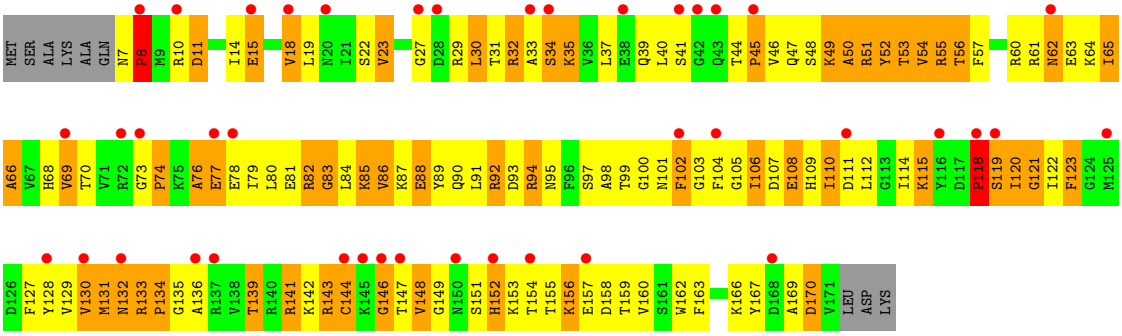




• Molecule 42: 60S ribosomal protein L11-A

Chain DK:

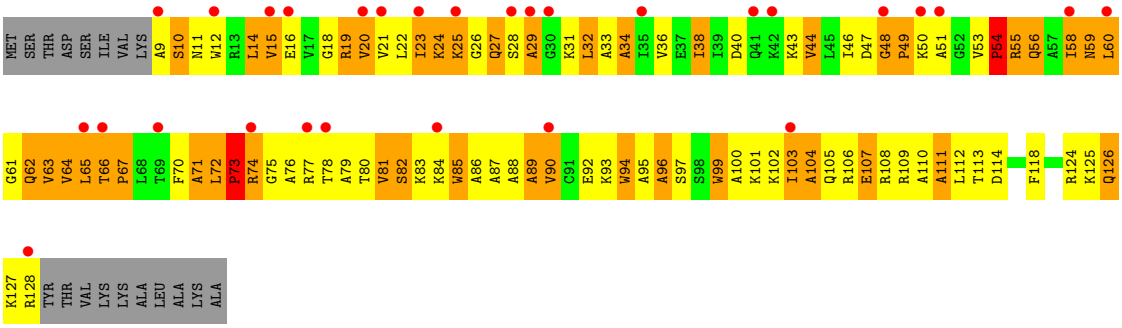




• Molecule 43: 60S ribosomal protein L14-A

Chain BN:

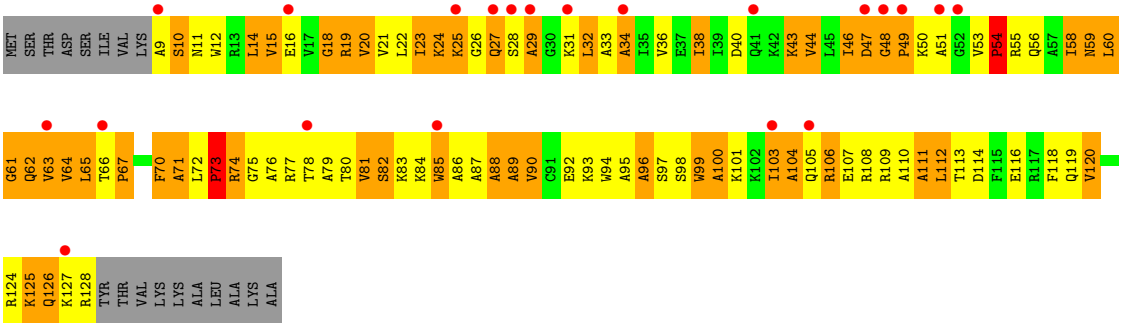




• Molecule 43: 60S ribosomal protein L14-A

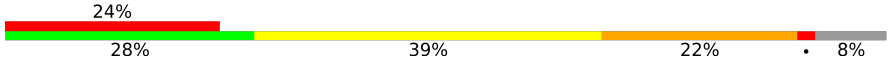
Chain DN:

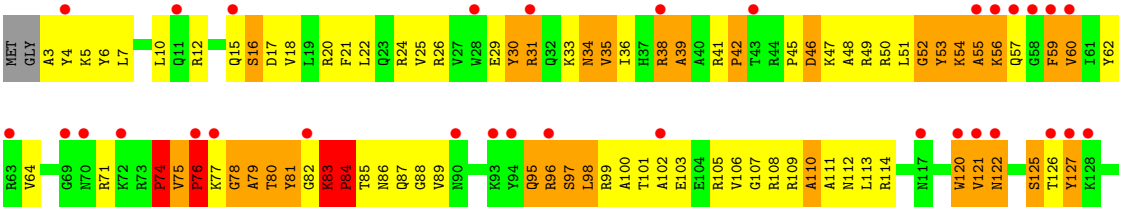


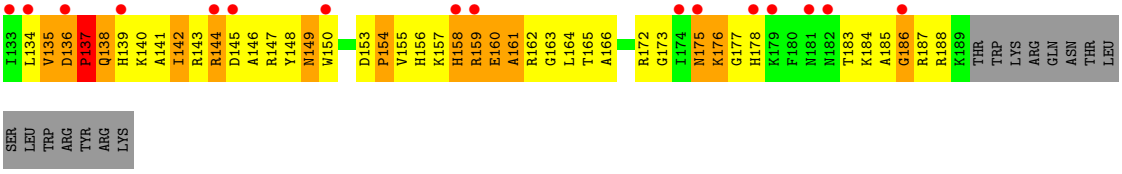


• Molecule 44: 60S ribosomal protein L15-A

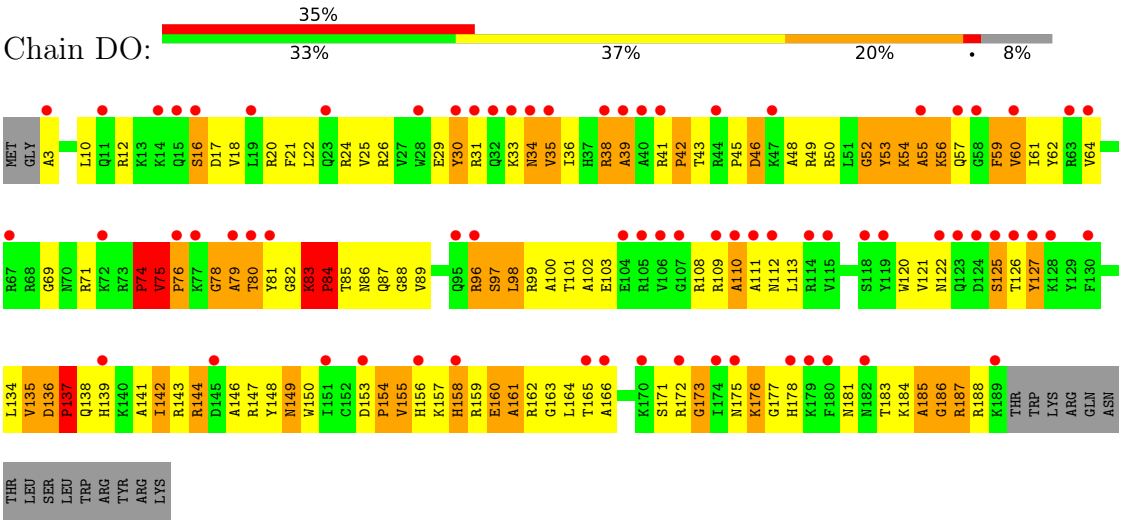
Chain BO:



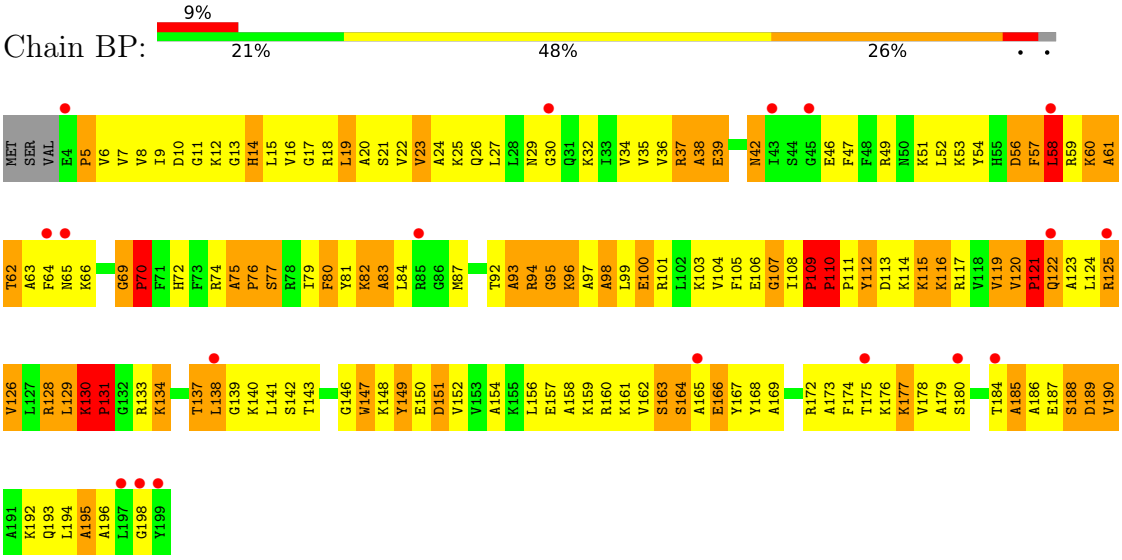




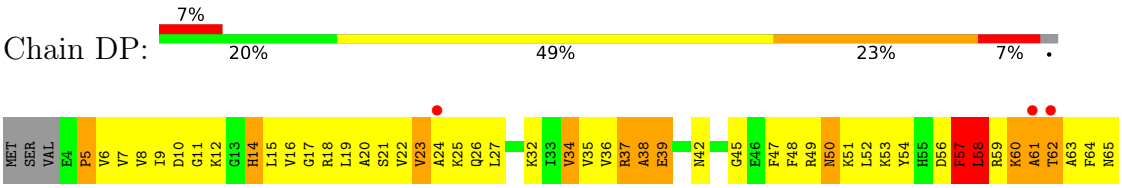
• Molecule 44: 60S ribosomal protein L15-A

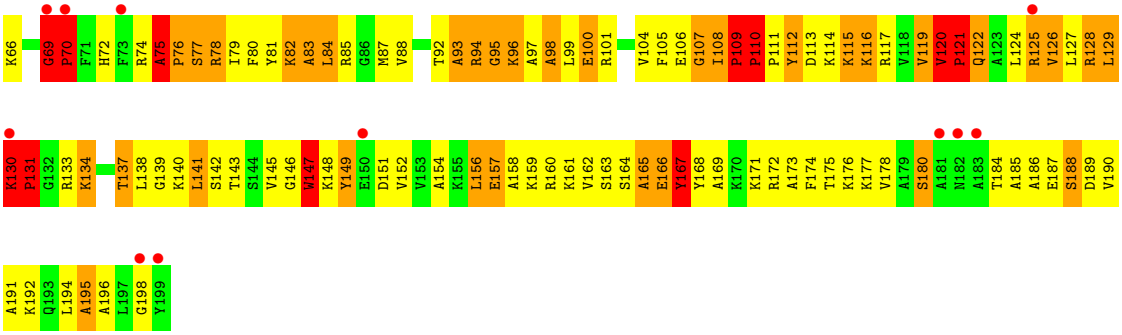


• Molecule 45: 60S ribosomal protein L16-A



• Molecule 45: 60S ribosomal protein L16-A

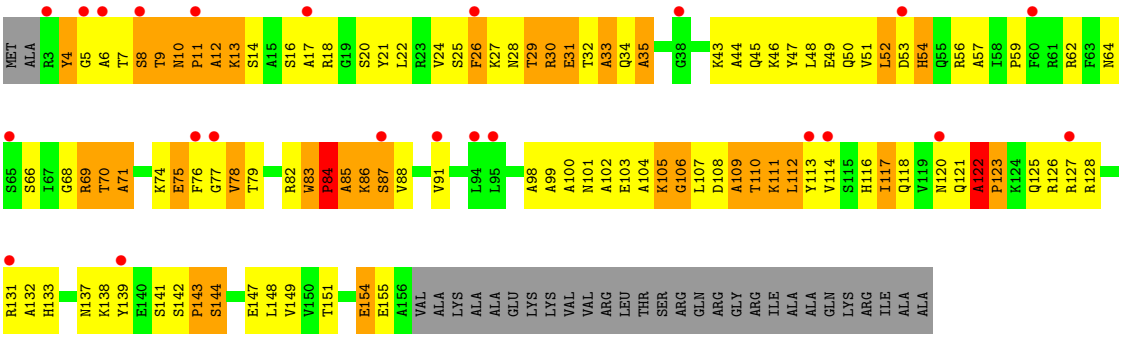




• Molecule 46: 60S ribosomal protein L17-A

Chain BQ:

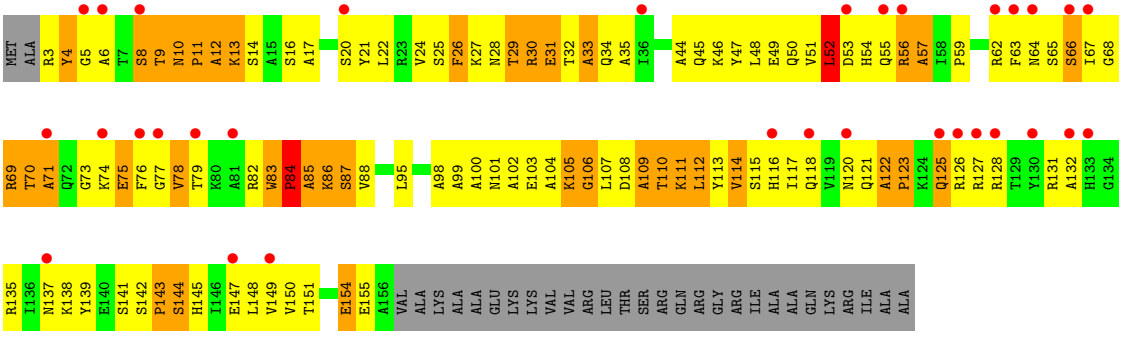




• Molecule 46: 60S ribosomal protein L17-A

Chain DQ:

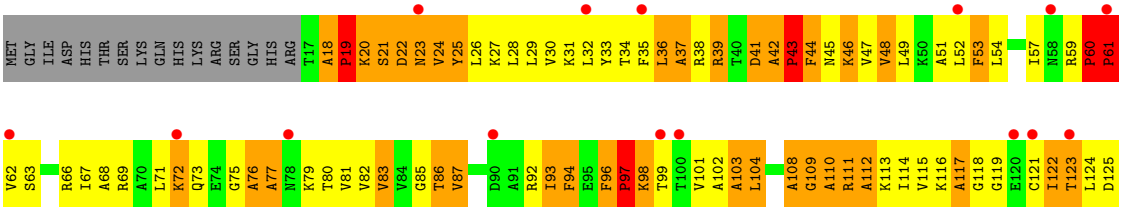


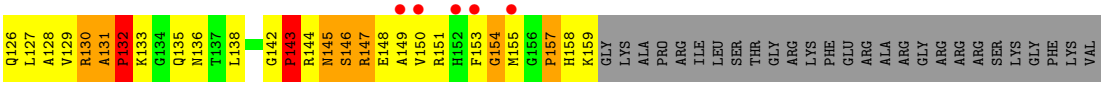


• Molecule 47: 60S ribosomal protein L18

Chain BR:



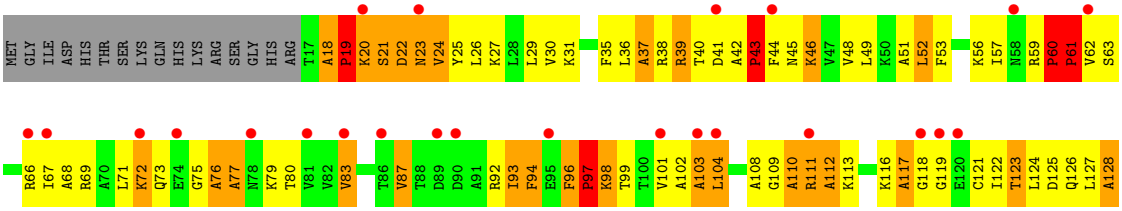




• Molecule 47: 60S ribosomal protein L18

Chain DR:



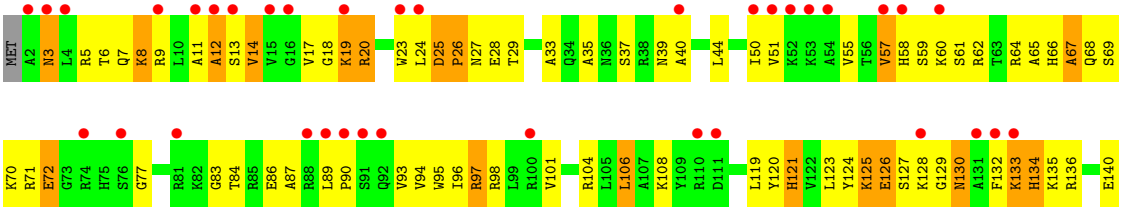


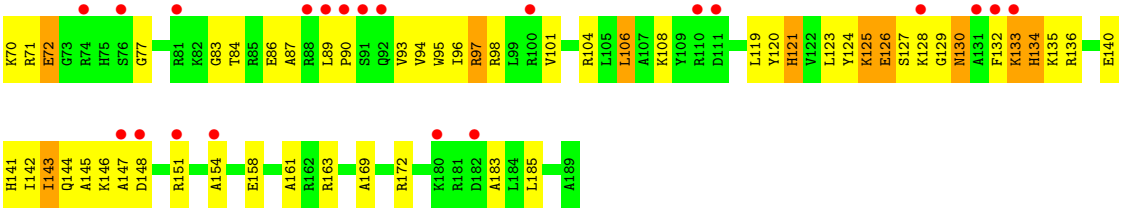


• Molecule 48: 60S ribosomal protein L19

Chain BS:



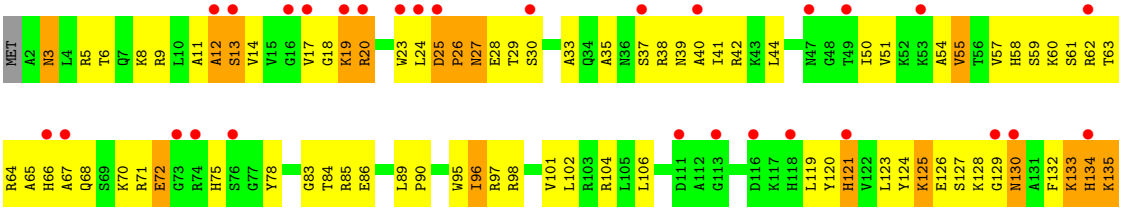


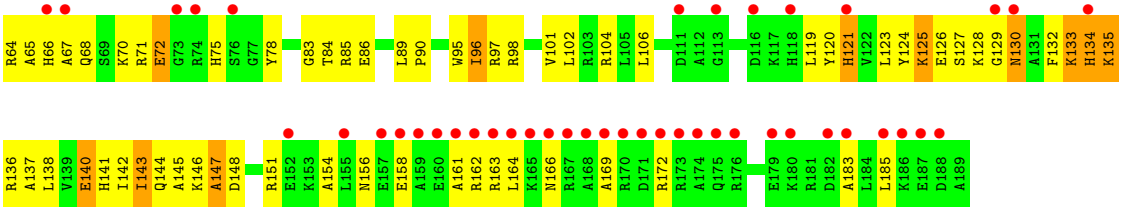


• Molecule 48: 60S ribosomal protein L19

Chain DS:



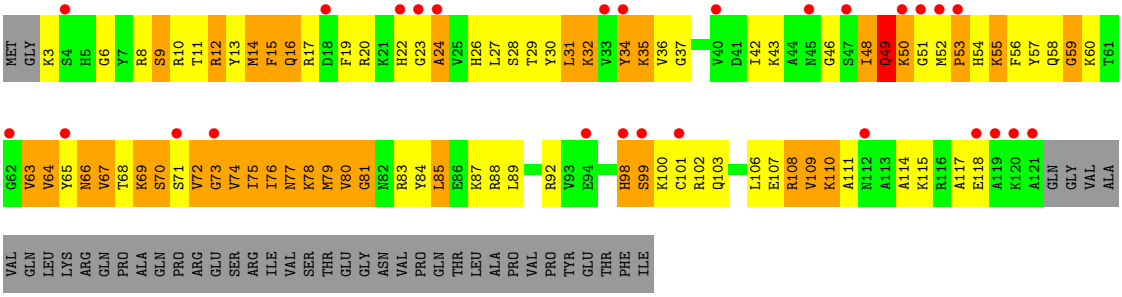




• Molecule 49: 60S ribosomal protein L21-A

Chain BT:

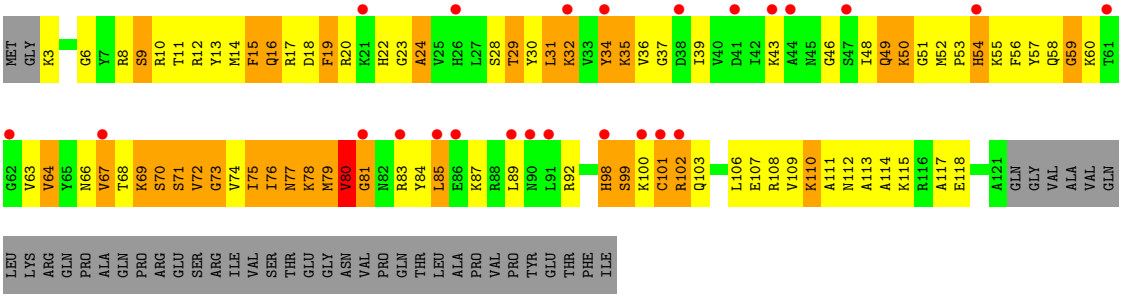




• Molecule 49: 60S ribosomal protein L21-A

Chain DT:

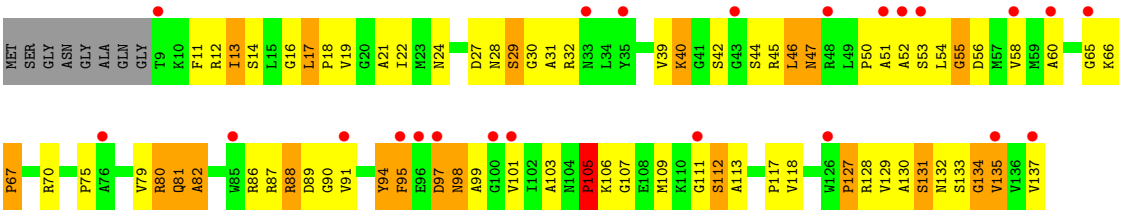




• Molecule 50: 60S ribosomal protein L23

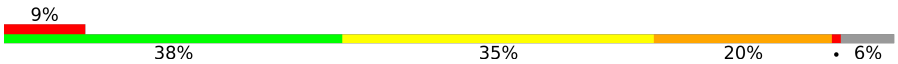
Chain BU:

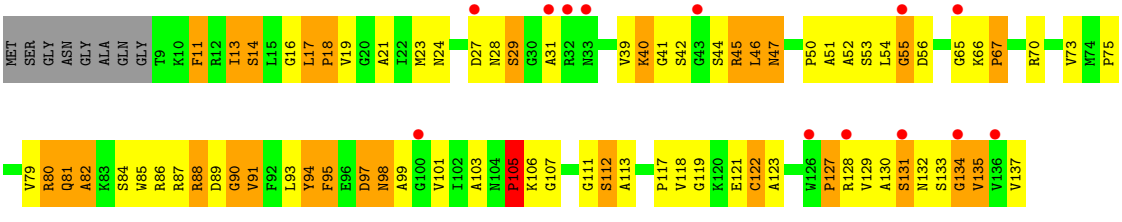




• Molecule 50: 60S ribosomal protein L23

Chain DU:

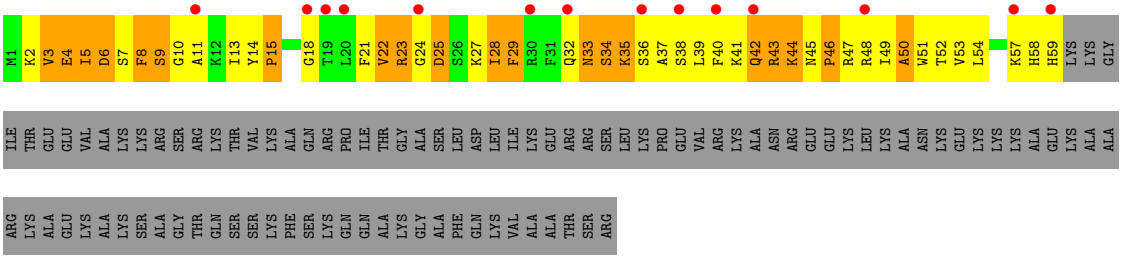




• Molecule 51: 60S ribosomal protein L24-A

Chain BV:

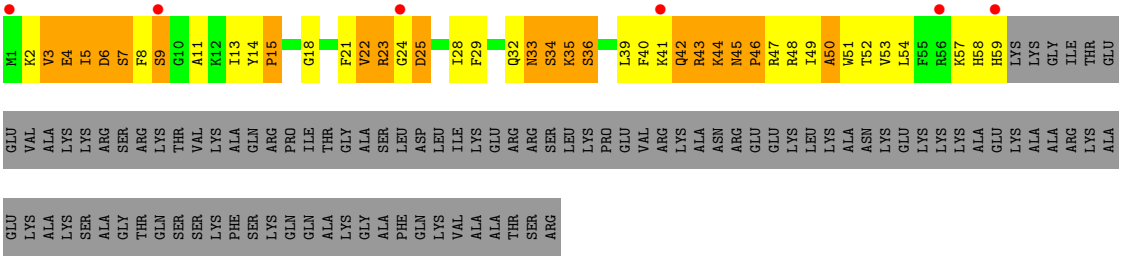




• Molecule 51: 60S ribosomal protein L24-A

Chain DV:

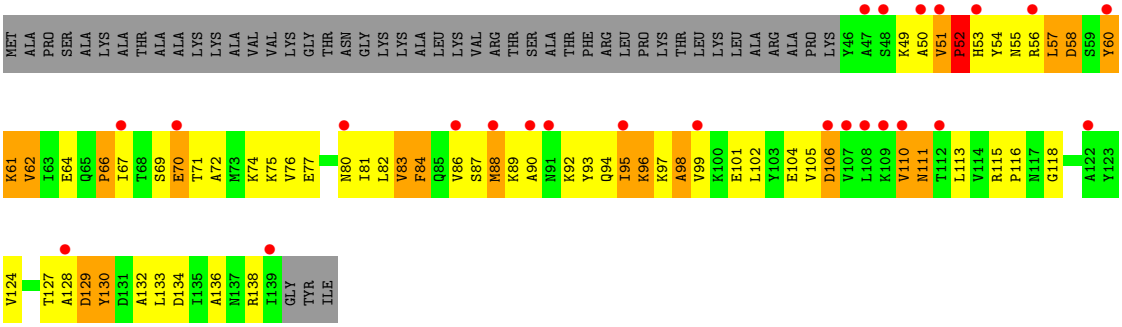




• Molecule 52: 60S ribosomal protein L25

Chain BW:

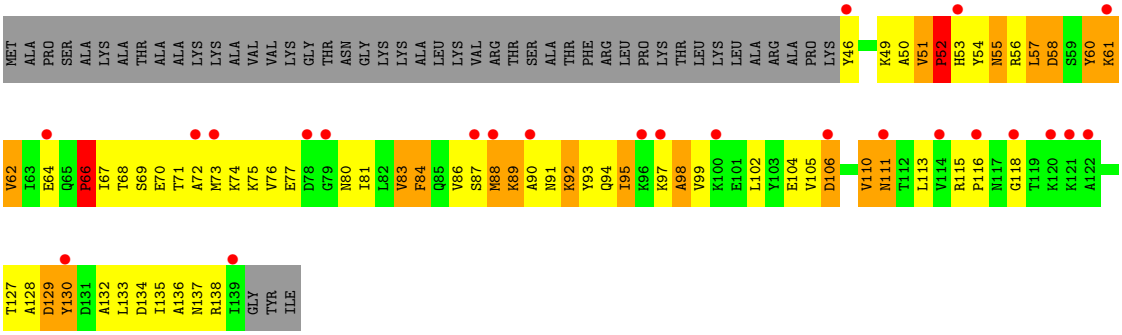




• Molecule 52: 60S ribosomal protein L25

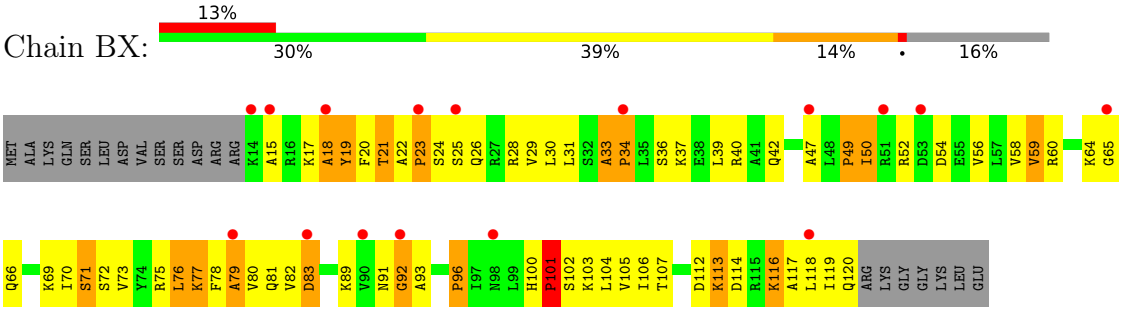
Chain DW:





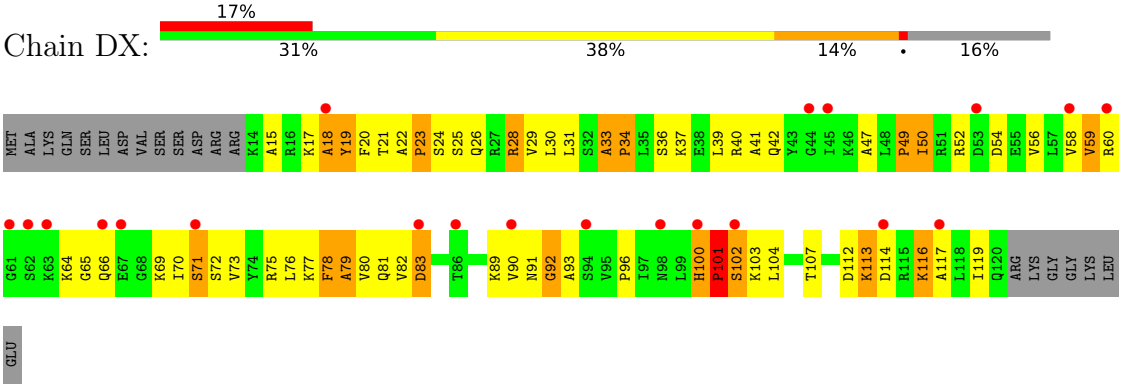
• Molecule 53: 60S ribosomal protein L26-A

Chain BX:



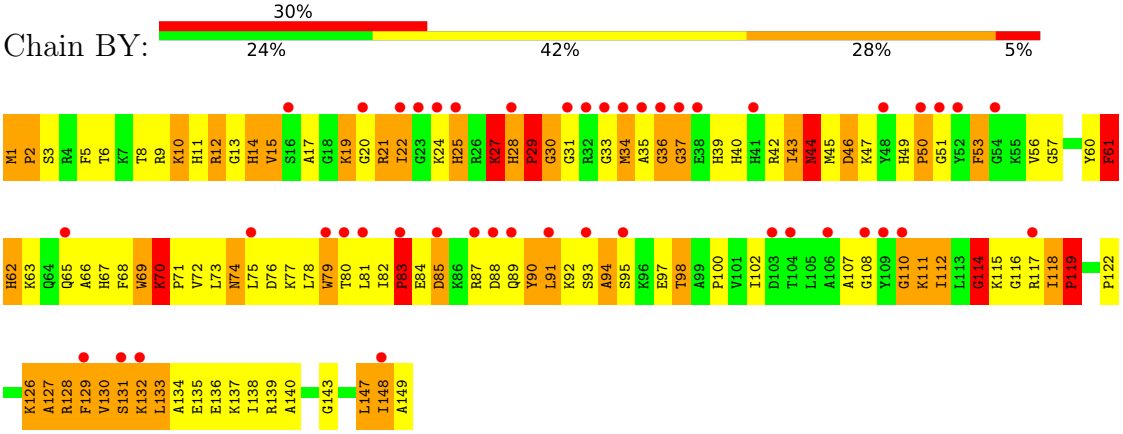
• Molecule 53: 60S ribosomal protein L26-A

Chain DX:



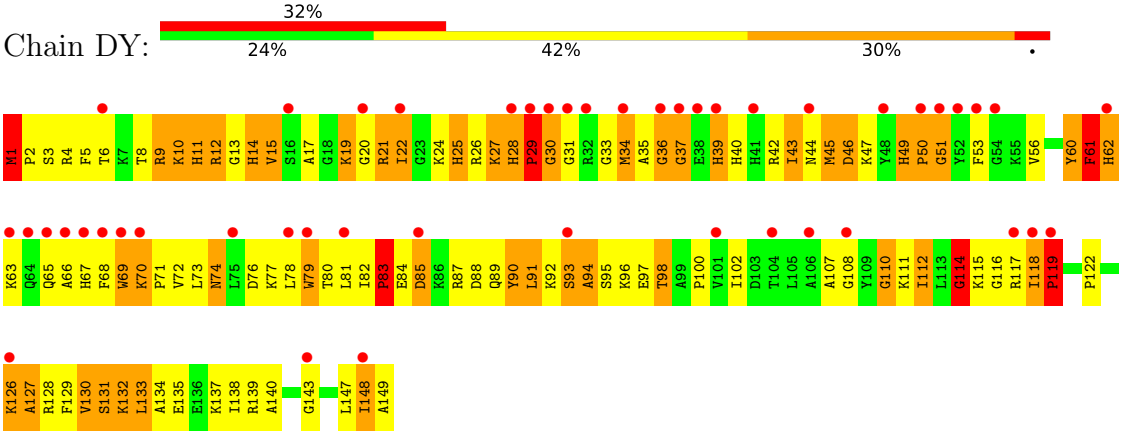
• Molecule 54: 60S ribosomal protein L28

Chain BY:



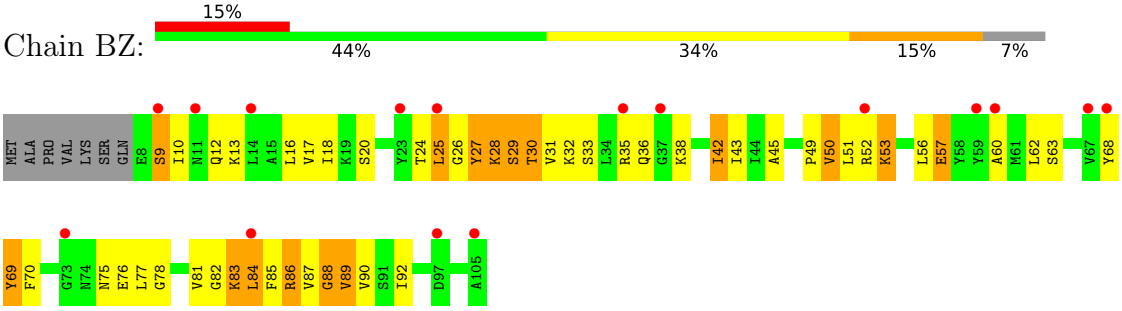
• Molecule 54: 60S ribosomal protein L28

Chain DY:



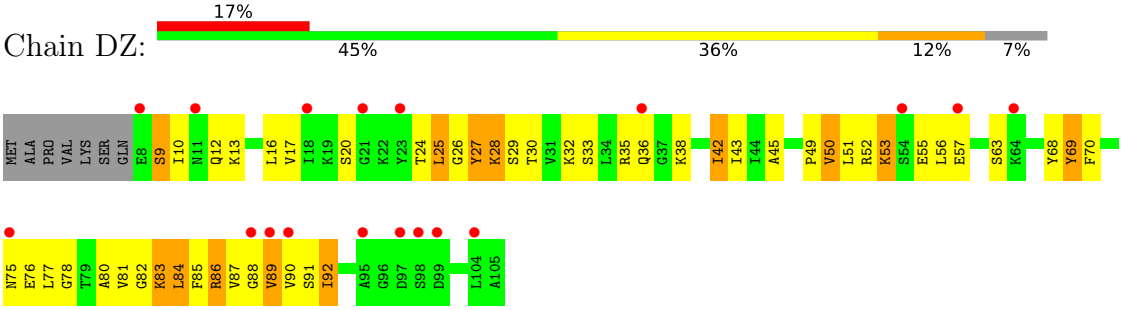
• Molecule 55: 60S ribosomal protein L30

Chain BZ:



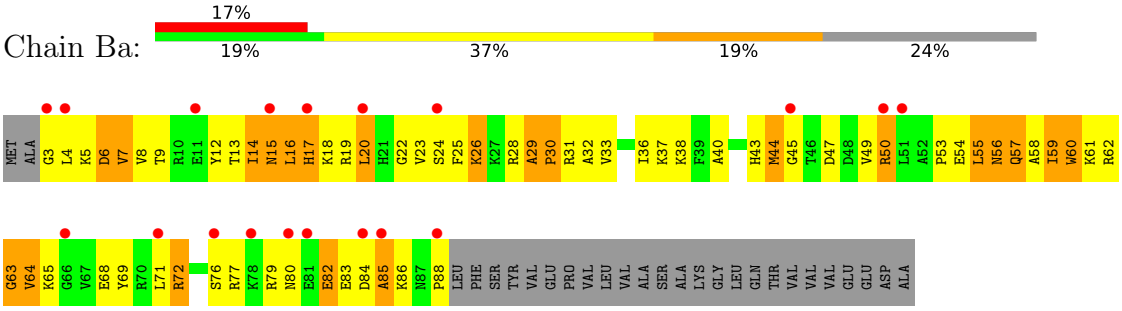
• Molecule 55: 60S ribosomal protein L30

Chain DZ:



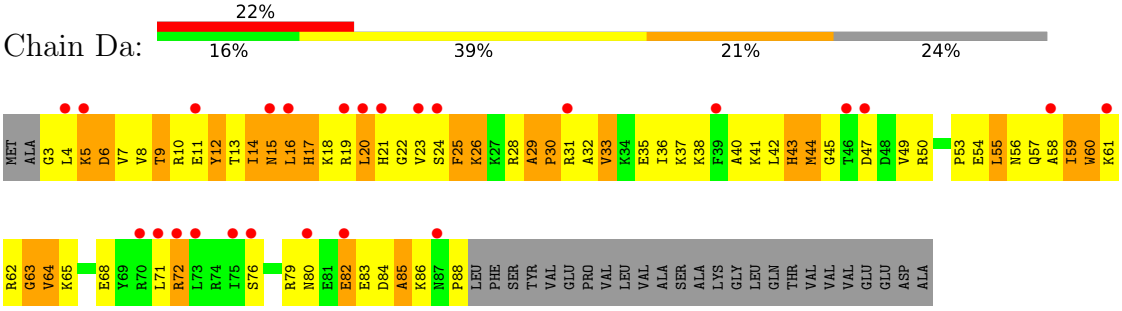
• Molecule 56: 60S ribosomal protein L31-A

Chain Ba:



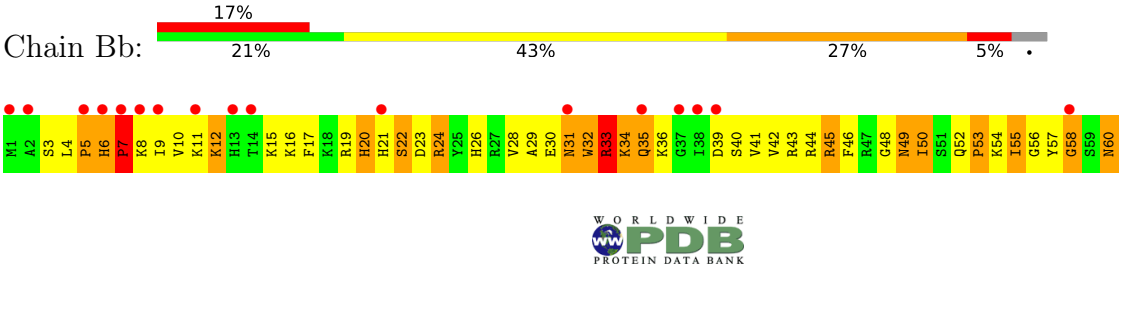
• Molecule 56: 60S ribosomal protein L31-A

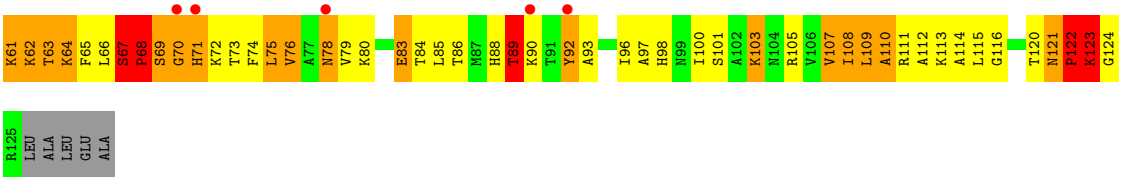
Chain Da:



• Molecule 57: 60S ribosomal protein L32

Chain Bb:

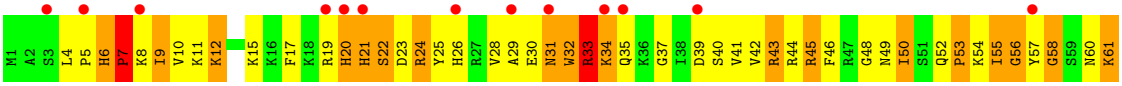


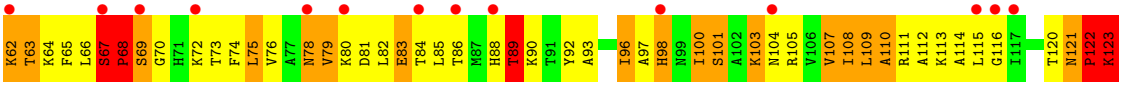


• Molecule 57: 60S ribosomal protein L32

Chain Db:



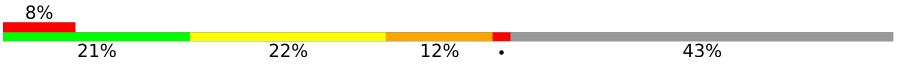


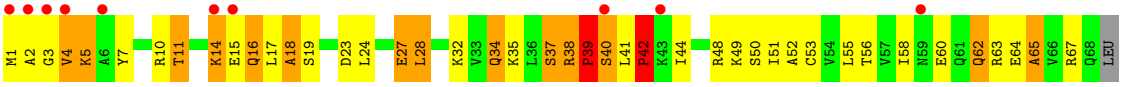




• Molecule 58: 60S ribosomal protein L35

Chain Bc:

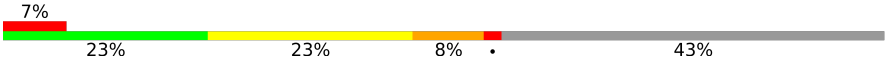


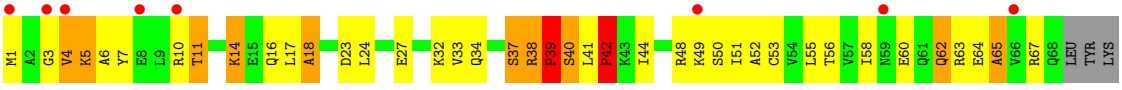




• Molecule 58: 60S ribosomal protein L35

Chain Dc:



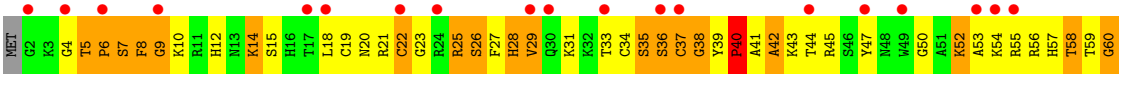


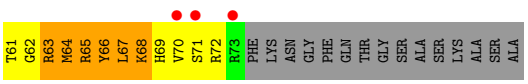


• Molecule 59: 60S ribosomal protein L37-A

Chain Bd:

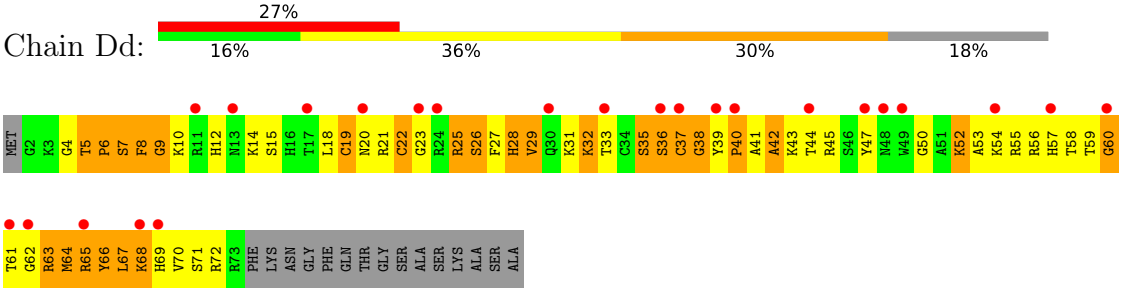






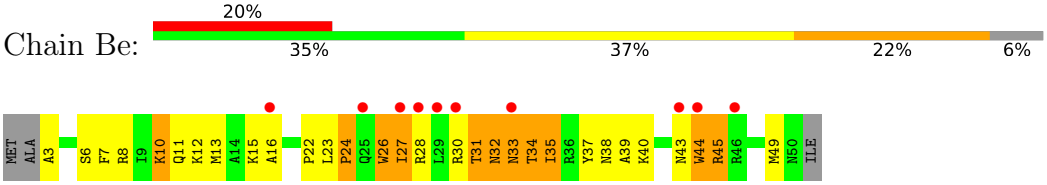
• Molecule 59: 60S ribosomal protein L37-A

Chain Dd:



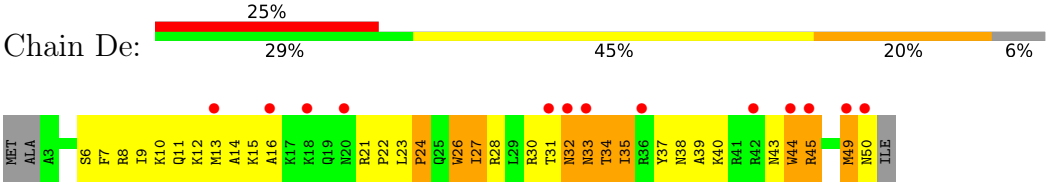
• Molecule 60: 60S ribosomal protein L39

Chain Be:



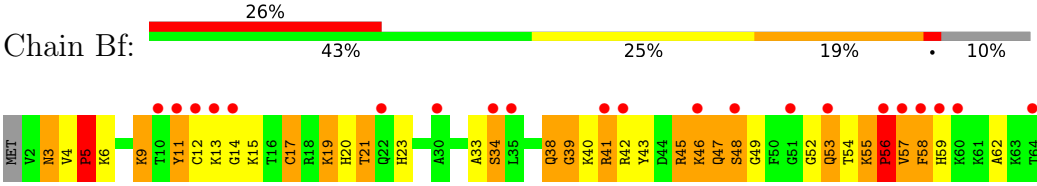
• Molecule 60: 60S ribosomal protein L39

Chain De:



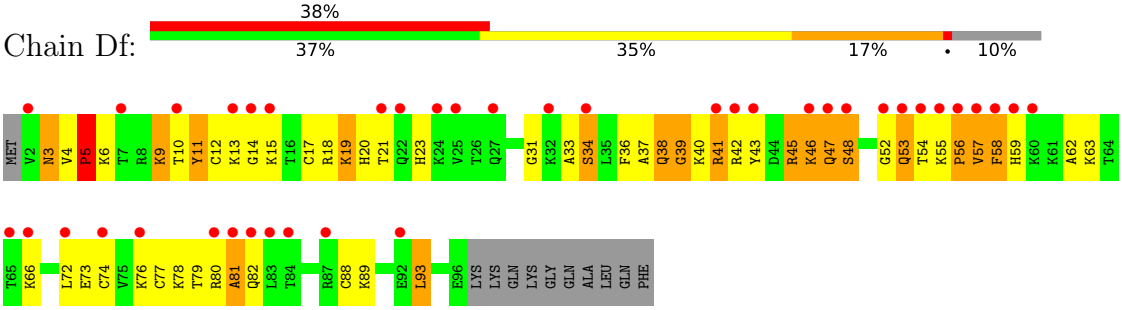
• Molecule 61: 60S ribosomal protein L42

Chain Bf:



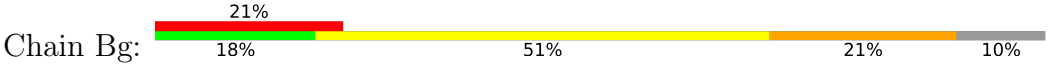
• Molecule 61: 60S ribosomal protein L42

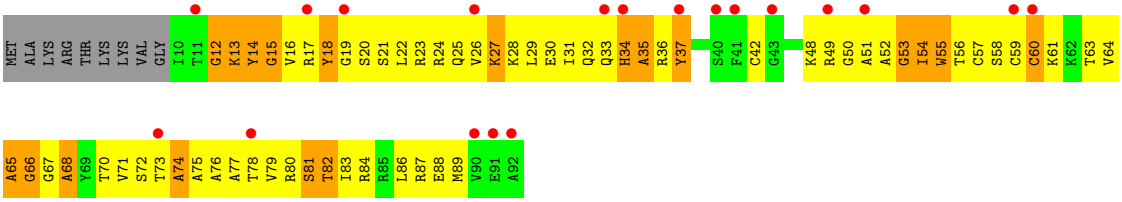
Chain Df:



• Molecule 62: 60S ribosomal protein L43

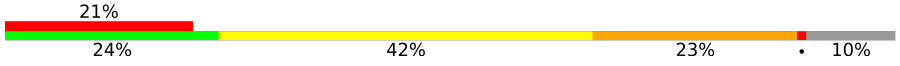
Chain Bg:

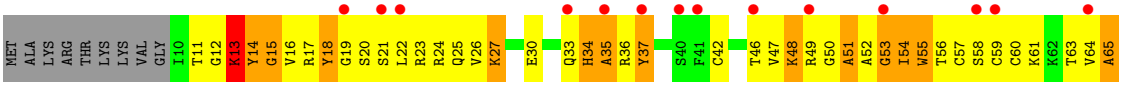


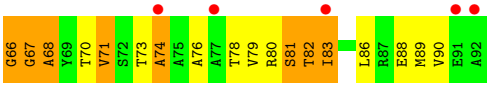


• Molecule 62: 60S ribosomal protein L43

Chain Dg:

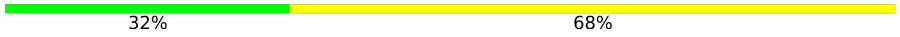


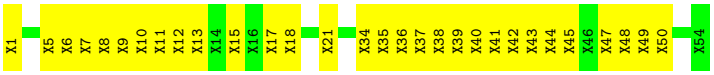




• Molecule 63: Unassigned secondary structure

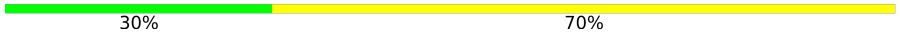
Chain Bh:

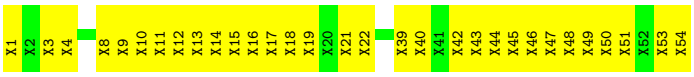




• Molecule 63: Unassigned secondary structure

Chain Dh:

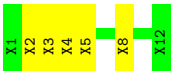




• Molecule 64: Unassigned secondary structure

Chain Bi:





• Molecule 64: Unassigned secondary structure

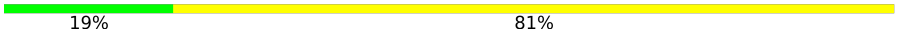
Chain Di:

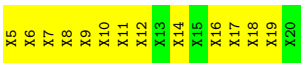




• Molecule 65: Unassigned secondary structure

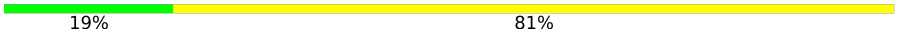
Chain Bk:

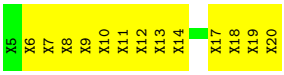




• Molecule 65: Unassigned secondary structure

Chain Dk:

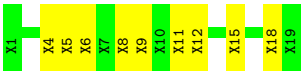




• Molecule 66: Unassigned secondary structure

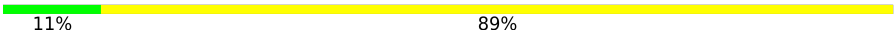
Chain Bl:

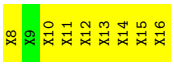




• Molecule 67: Unassigned secondary structure

Chain Bm:





• Molecule 68: Unassigned secondary structure

Chain Bn:





• Molecule 69: Unassigned secondary structure

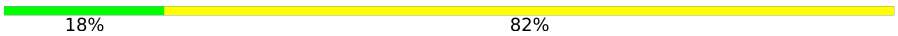
Chain Bp:





• Molecule 70: Unassigned secondary structure

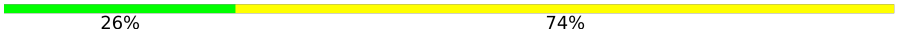
Chain Bq:

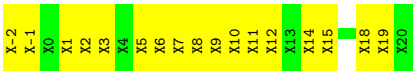




• Molecule 71: Unassigned secondary structure

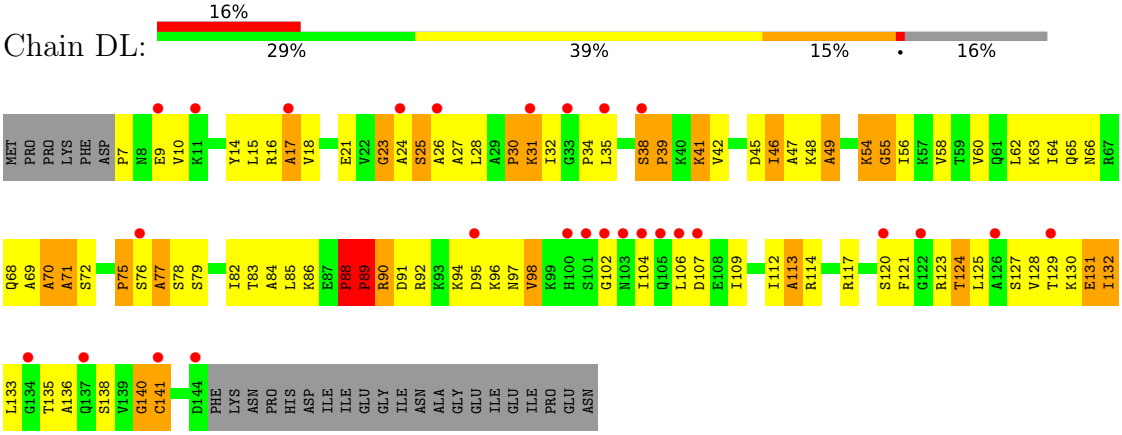
Chain Br:





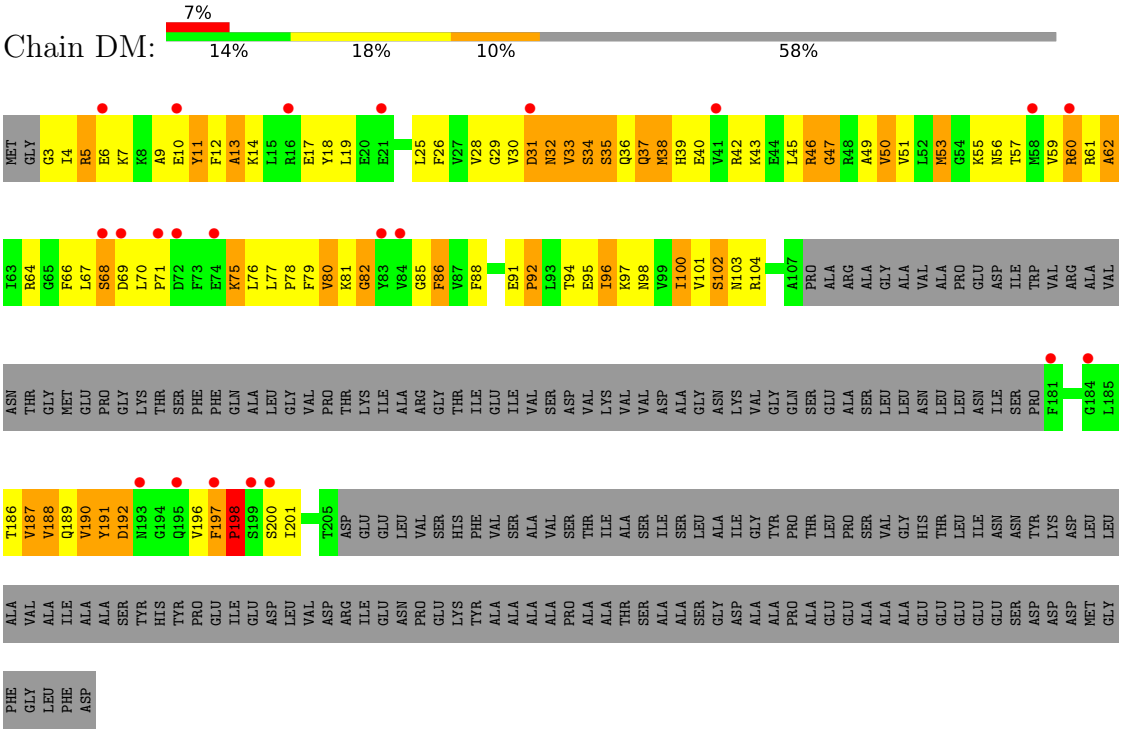
• Molecule 72: 60S ribosomal protein L12

Chain DL:



• Molecule 73: 60S acidic ribosomal protein P0

Chain DM:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	437.11Å 288.38Å 306.56Å 90.00° 99.13° 90.00°	Depositor
Resolution (Å)	268.00 – 4.00 268.00 – 4.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (268.00-4.00) 97.9 (268.00-4.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.57 (at 4.02Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.278 , 0.341 0.284 , 0.343	Depositor DCC
R_{free} test set	12353 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å^2)	147.1	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.18 , 273.9	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	0.87	EDS
Total number of atoms	309610	wwPDB-VP
Average B, all atoms (Å^2)	139.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% 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 (i)

5.1 Standard geometry (i)

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

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	A1	0.44	5/42619 (0.0%)	0.54	9/66408 (0.0%)
1	C1	0.48	2/42619 (0.0%)	0.55	7/66408 (0.0%)
2	AA	0.69	0/1089	1.33	27/1517 (1.8%)
2	CA	0.78	0/1089	1.35	29/1517 (1.9%)
3	AB	0.83	1/1073 (0.1%)	1.40	23/1488 (1.5%)
3	CB	0.85	0/1073	1.38	21/1488 (1.4%)
4	AC	0.77	0/927	1.10	9/1286 (0.7%)
4	CC	0.71	0/927	1.05	7/1286 (0.5%)
5	AD	0.69	0/834	1.10	9/1159 (0.8%)
5	CD	0.77	0/834	1.21	14/1159 (1.2%)
6	AE	0.72	0/775	1.14	7/1077 (0.6%)
6	CE	0.81	0/775	1.13	9/1077 (0.8%)
7	AF	0.99	0/381	1.48	10/530 (1.9%)
7	CF	0.95	0/381	1.48	10/530 (1.9%)
8	AG	0.76	0/579	1.28	11/806 (1.4%)
8	CG	0.81	0/579	1.32	9/806 (1.1%)
9	AH	0.64	0/626	1.14	7/867 (0.8%)
9	CH	0.68	0/626	1.12	6/867 (0.7%)
10	AI	0.66	0/595	1.29	9/826 (1.1%)
10	CI	0.77	0/595	1.32	11/826 (1.3%)
11	AJ	0.75	0/657	1.21	11/911 (1.2%)
11	CJ	0.83	0/657	1.25	8/911 (0.9%)
12	AK	0.65	0/331	1.22	5/460 (1.1%)
12	CK	0.60	0/331	1.19	5/460 (1.1%)
13	AL	0.70	0/589	1.18	9/816 (1.1%)
13	CL	0.76	0/589	1.24	7/816 (0.9%)
14	AM	0.81	0/518	1.39	10/715 (1.4%)
14	CM	0.98	0/518	1.45	11/715 (1.5%)
15	AN	0.76	0/550	1.26	11/766 (1.4%)
15	CN	0.78	0/550	1.33	9/766 (1.2%)
16	AO	0.82	0/621	1.36	10/860 (1.2%)
16	CO	0.89	0/621	1.40	11/860 (1.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AP	0.99	2/565 (0.4%)	1.38	10/781 (1.3%)
17	CP	1.11	1/565 (0.2%)	1.43	10/781 (1.3%)
18	AQ	0.64	0/331	1.16	2/460 (0.4%)
18	CQ	0.66	0/311	1.27	2/432 (0.5%)
19	AR	0.59	0/229	1.05	2/316 (0.6%)
19	CR	0.65	0/229	1.12	2/316 (0.6%)
20	AS	0.86	1/189 (0.5%)	0.97	1/260 (0.4%)
20	CS	0.86	1/189 (0.5%)	0.99	1/260 (0.4%)
21	AT	0.64	1/1541 (0.1%)	1.02	9/2141 (0.4%)
21	CT	0.67	0/1541	1.06	11/2141 (0.5%)
29	B1	0.61	1/76764 (0.0%)	0.65	21/119684 (0.0%)
29	D1	0.59	3/76764 (0.0%)	0.64	18/119684 (0.0%)
30	B2	0.58	0/2883	0.68	1/4491 (0.0%)
30	D2	0.64	0/2883	0.70	2/4491 (0.0%)
31	B3	0.53	0/3746	0.57	1/5832 (0.0%)
31	D3	0.46	0/3746	0.54	1/5832 (0.0%)
32	BA	0.50	0/1054	1.05	12/1468 (0.8%)
32	DA	0.49	0/1054	1.00	11/1468 (0.7%)
33	BB	0.95	0/1103	1.42	25/1501 (1.7%)
33	DB	0.82	0/1103	1.35	23/1501 (1.5%)
34	BC	1.08	1/1790 (0.1%)	1.55	45/2487 (1.8%)
34	DC	1.20	6/1790 (0.3%)	1.60	44/2487 (1.8%)
35	BD	1.06	1/1311 (0.1%)	1.48	29/1817 (1.6%)
35	DD	0.87	0/1311	1.42	27/1817 (1.5%)
36	BE	0.81	0/1411	1.45	38/1960 (1.9%)
36	DE	0.92	0/1411	1.52	43/1960 (2.2%)
37	BF	1.19	2/872 (0.2%)	1.74	38/1215 (3.1%)
37	DF	1.34	3/872 (0.3%)	1.77	36/1215 (3.0%)
38	BG	1.15	2/1059 (0.2%)	1.64	29/1471 (2.0%)
38	DG	1.23	6/1059 (0.6%)	1.65	33/1471 (2.2%)
39	BH	0.72	0/855	1.26	13/1190 (1.1%)
39	DH	0.69	0/855	1.21	11/1190 (0.9%)
40	BI	1.02	1/941 (0.1%)	1.34	14/1308 (1.1%)
40	DI	1.18	0/941	1.45	14/1308 (1.1%)
41	BJ	1.00	0/1025	1.37	20/1424 (1.4%)
41	DJ	1.08	2/1025 (0.2%)	1.36	16/1424 (1.1%)
42	BK	0.85	0/809	1.34	18/1122 (1.6%)
42	DK	0.93	0/809	1.35	14/1122 (1.2%)
43	BN	1.04	0/592	1.56	15/823 (1.8%)
43	DN	1.23	0/592	1.67	18/823 (2.2%)
44	BO	0.92	0/922	1.35	16/1282 (1.2%)
44	DO	0.77	0/922	1.31	17/1282 (1.3%)
45	BP	1.25	1/966 (0.1%)	1.68	28/1343 (2.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
45	DP	1.32	6/966 (0.6%)	1.73	33/1343 (2.5%)
46	BQ	1.12	2/760 (0.3%)	1.38	10/1057 (0.9%)
46	DQ	1.05	1/760 (0.1%)	1.32	13/1057 (1.2%)
47	BR	1.09	1/705 (0.1%)	1.48	15/980 (1.5%)
47	DR	0.91	0/705	1.36	14/980 (1.4%)
48	BS	0.79	0/930	1.09	9/1295 (0.7%)
48	DS	0.74	0/930	1.03	9/1295 (0.7%)
49	BT	1.06	1/585 (0.2%)	1.35	7/812 (0.9%)
49	DT	1.08	0/585	1.41	10/812 (1.2%)
50	BU	1.00	0/630	1.34	10/872 (1.1%)
50	DU	1.21	2/630 (0.3%)	1.47	13/872 (1.5%)
51	BV	0.80	0/290	1.15	2/402 (0.5%)
51	DV	0.89	0/290	1.21	2/402 (0.5%)
52	BW	0.84	0/467	1.23	8/651 (1.2%)
52	DW	0.76	0/467	1.24	8/651 (1.2%)
53	BX	0.86	0/529	1.27	9/736 (1.2%)
53	DX	0.76	0/529	1.28	11/736 (1.5%)
54	BY	1.10	3/726 (0.4%)	1.66	20/1004 (2.0%)
54	DY	0.99	3/726 (0.4%)	1.56	19/1004 (1.9%)
55	BZ	0.72	0/480	1.15	5/665 (0.8%)
55	DZ	0.67	0/480	1.14	3/665 (0.5%)
56	Ba	0.98	0/424	1.40	6/589 (1.0%)
56	Da	0.96	0/424	1.42	6/589 (1.0%)
57	Bb	1.10	2/617 (0.3%)	1.64	16/858 (1.9%)
57	Db	0.94	0/617	1.57	18/858 (2.1%)
58	Bc	0.79	0/338	1.35	7/471 (1.5%)
58	Dc	0.65	0/338	1.23	6/471 (1.3%)
59	Bd	0.97	0/351	1.46	8/485 (1.6%)
59	Dd	0.77	0/351	1.41	8/485 (1.6%)
60	Be	0.89	0/239	1.31	3/333 (0.9%)
60	De	0.75	0/239	1.24	4/333 (1.2%)
61	Bf	0.65	0/466	1.04	3/646 (0.5%)
61	Df	0.54	0/466	1.00	3/646 (0.5%)
62	Bg	0.82	0/406	1.25	5/562 (0.9%)
62	Dg	0.73	0/406	1.07	4/562 (0.7%)
72	DL	0.62	0/678	1.18	12/941 (1.3%)
73	DM	0.70	0/639	1.16	9/886 (1.0%)
All	All	0.65	64/326627 (0.0%)	0.82	1440/496371 (0.3%)

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
3	AB	0	2
3	CB	0	2
17	AP	0	1
17	CP	0	1
18	AQ	0	1
18	CQ	0	1
22	Bo	0	1
23	Ab	0	1
23	Cb	0	1
24	Ac	0	1
29	B1	0	3
29	D1	0	3
34	BC	0	5
34	DC	0	6
35	BD	0	1
35	DD	0	2
36	BE	0	1
36	DE	0	1
37	BF	0	4
37	DF	0	4
38	BG	0	1
38	DG	0	1
42	BK	0	1
42	DK	0	1
44	DO	0	1
45	BP	0	4
45	DP	0	5
49	BT	0	1
49	DT	0	1
51	BV	0	1
51	DV	0	1
54	BY	0	2
54	DY	0	2
56	Ba	0	1
56	Da	0	1
57	Bb	0	1
57	Db	0	1
All	All	0	68

All (64) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	DF	88	SER	CA-C	6.88	1.61	1.52

Continued on next page...

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	243	G	C1'-N9	-6.85	1.37	1.48
35	BD	230	VAL	CA-CB	-6.81	1.47	1.55
54	BY	45	MET	CA-C	6.81	1.61	1.53
1	C1	129	U	C1'-N1	6.75	1.57	1.47
17	CP	33	LEU	CA-C	6.72	1.61	1.52
1	C1	243	G	C1'-N9	-6.57	1.38	1.48
41	DJ	96	VAL	CA-CB	-6.49	1.46	1.53
20	AS	31	ILE	CA-C	6.49	1.60	1.52
38	DG	236	ILE	CA-CB	-6.42	1.46	1.54
45	BP	152	VAL	CA-CB	-6.38	1.47	1.54
45	DP	167	TYR	CA-CB	-6.37	1.42	1.53
40	BI	182	SER	CA-C	6.36	1.55	1.52
34	DC	78	VAL	CA-CB	-6.35	1.46	1.54
45	DP	120	VAL	CA-C	-6.31	1.46	1.52
54	BY	147	LEU	CA-C	6.22	1.56	1.52
45	DP	152	VAL	CA-CB	-6.07	1.47	1.54
50	DU	73	VAL	CA-CB	-6.02	1.46	1.54
47	BR	48	VAL	CA-CB	-6.00	1.47	1.54
38	DG	236	ILE	CA-C	-5.98	1.46	1.53
38	DG	178	ILE	CA-CB	-5.91	1.51	1.55
49	BT	74	VAL	CA-CB	-5.76	1.46	1.54
1	A1	129	U	C1'-N1	5.73	1.56	1.47
37	DF	21	THR	CA-C	5.63	1.60	1.52
45	DP	145	VAL	CA-CB	-5.58	1.48	1.54
41	DJ	91	VAL	CA-CB	-5.57	1.46	1.54
34	BC	89	VAL	CA-CB	-5.56	1.47	1.54
46	BQ	91	VAL	CA-CB	-5.55	1.47	1.54
38	BG	99	PRO	CA-CB	-5.53	1.46	1.53
37	BF	165	LEU	CA-C	-5.53	1.45	1.52
34	DC	56	ILE	CA-CB	-5.53	1.47	1.54
20	CS	31	ILE	CA-C	5.52	1.59	1.52
3	AB	225	LEU	N-CA	5.46	1.53	1.46
34	DC	160	VAL	CA-C	-5.45	1.45	1.52
54	DY	89	GLN	CA-C	5.42	1.55	1.52
37	BF	88	SER	CA-C	5.41	1.59	1.52
54	DY	45	MET	CA-C	5.39	1.60	1.53
21	AT	58	VAL	CA-CB	-5.33	1.47	1.54
1	A1	259	U	C1'-N1	5.33	1.55	1.47
38	BG	86	VAL	CA-CB	-5.32	1.47	1.54
29	D1	3025	C	C1'-N1	-5.29	1.40	1.48
17	AP	74	VAL	CA-CB	-5.28	1.50	1.55
38	DG	189	ILE	CA-CB	-5.26	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	1187	C	C1'-N1	-5.25	1.40	1.48
34	DC	33	PRO	CA-CB	-5.25	1.46	1.53
45	DP	34	VAL	CA-CB	-5.23	1.47	1.54
50	DU	45	ARG	CA-CB	-5.23	1.45	1.53
45	DP	88	VAL	CA-CB	-5.22	1.47	1.55
54	DY	39	HIS	CA-C	5.20	1.55	1.52
38	DG	86	VAL	CA-CB	-5.19	1.47	1.54
34	DC	160	VAL	CA-CB	-5.18	1.47	1.54
57	Bb	76	VAL	CA-CB	-5.16	1.47	1.54
34	DC	43	LEU	CA-C	5.14	1.59	1.52
46	DQ	144	SER	CA-C	5.13	1.56	1.52
29	B1	1951	C	C4-N4	-5.13	1.23	1.33
37	DF	48	ARG	CA-C	5.13	1.59	1.52
1	A1	125	U	C1'-N1	5.13	1.55	1.47
38	DG	158	LYS	CA-C	5.12	1.58	1.52
57	Bb	28	VAL	CA-CB	-5.08	1.48	1.54
46	BQ	117	ILE	CA-CB	-5.06	1.47	1.54
29	D1	1951	C	C4-N4	-5.05	1.23	1.33
1	A1	127	G	C1'-N9	-5.03	1.39	1.47
54	BY	111	LYS	CA-CB	-5.01	1.46	1.53
17	AP	31	LYS	CA-C	5.01	1.59	1.52

All (1440) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	DD	126	ILE	N-CA-C	-14.57	96.72	110.42
35	BD	126	ILE	N-CA-C	-13.80	97.56	110.53
14	CM	55	TYR	N-CA-C	-12.56	97.90	113.97
45	DP	65	ASN	N-CA-C	-12.17	97.71	111.71
62	Bg	12	GLY	N-CA-C	-12.00	98.65	114.25
57	Bb	31	ASN	N-CA-C	11.96	124.53	108.38
35	BD	146	PRO	N-CA-CB	11.83	110.53	102.25
35	DD	146	PRO	N-CA-CB	11.78	110.49	102.25
54	BY	45	MET	N-CA-C	11.65	127.83	111.52
32	DA	126	PRO	N-CA-CB	11.59	110.44	102.79
34	DC	96	PRO	N-CA-CB	11.55	115.38	103.25
34	DC	262	TRP	N-CA-C	-11.52	99.05	112.87
34	DC	267	ALA	N-CA-C	-11.35	92.27	110.32
45	BP	131	PRO	N-CA-CB	11.17	114.89	102.60
45	BP	122	GLN	N-CA-C	-11.06	95.72	113.19
34	BC	196	ARG	N-CA-C	-11.02	97.58	111.02
43	BN	48	GLY	N-CA-C	-10.95	98.63	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	DY	45	MET	N-CA-C	10.86	127.08	111.56
34	BC	262	TRP	N-CA-C	-10.78	98.32	112.34
49	BT	50	LYS	N-CA-C	-10.70	98.95	113.18
14	AM	55	TYR	N-CA-C	-10.66	100.33	113.97
14	AM	100	ILE	N-CA-C	-10.56	100.28	110.42
56	Da	33	VAL	N-CA-C	-10.44	99.38	110.23
35	BD	241	GLY	N-CA-C	-10.40	100.84	115.30
57	Db	31	ASN	N-CA-C	10.38	123.75	108.60
34	BC	96	PRO	N-CA-CB	10.37	114.14	103.25
43	DN	48	GLY	N-CA-C	-10.33	99.40	112.10
45	DP	122	GLN	N-CA-C	-10.26	96.99	113.19
49	DT	50	LYS	N-CA-C	-10.20	99.61	113.18
45	BP	65	ASN	N-CA-C	-10.12	100.24	111.28
13	CL	57	ARG	N-CA-C	10.11	118.46	108.75
33	DB	184	ARG	N-CA-C	-10.04	100.12	112.38
45	DP	131	PRO	N-CA-CB	9.99	113.59	102.60
38	BG	144	ILE	N-CA-C	-9.92	102.22	111.45
53	BX	18	ALA	N-CA-C	-9.90	99.08	111.75
14	CM	65	ILE	N-CA-C	-9.86	103.84	112.12
50	DU	18	PRO	N-CA-CB	9.85	108.44	102.92
42	BK	139	THR	N-CA-C	-9.81	100.96	113.72
54	DY	133	LEU	N-CA-C	-9.78	100.08	112.90
38	BG	106	LEU	N-CA-C	-9.71	101.46	113.20
33	DB	232	GLY	N-CA-C	-9.69	104.01	114.67
3	CB	241	ASP	N-CA-C	-9.68	100.40	112.88
59	Bd	63	ARG	N-CA-C	-9.63	101.55	113.20
3	CB	60	SER	N-CA-C	-9.61	101.14	112.86
16	AO	61	ILE	N-CA-C	9.59	122.14	108.42
43	DN	51	ALA	N-CA-C	-9.57	99.25	113.61
36	DE	237	GLU	N-CA-C	-9.55	99.77	111.33
16	AO	117	ARG	N-CA-C	-9.51	100.77	111.71
34	DC	5	LYS	N-CA-C	-9.47	96.02	110.70
44	DO	84	PRO	N-CA-CB	9.47	113.02	102.60
43	BN	51	ALA	N-CA-C	-9.45	99.43	113.61
56	Da	53	PRO	N-CA-CB	9.45	112.17	103.20
59	Dd	14	LYS	N-CA-C	9.43	123.01	108.96
56	Ba	56	ASN	N-CA-C	-9.42	100.70	110.97
4	CC	57	ASP	N-CA-C	-9.38	100.93	111.71
56	Ba	53	PRO	N-CA-CB	9.36	112.09	103.20
57	Bb	123	LYS	N-CA-C	-9.35	90.89	110.80
50	BU	50	PRO	N-CA-CB	9.31	111.57	103.19
43	DN	49	PRO	N-CA-CB	9.29	113.00	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	DX	18	ALA	N-CA-C	-9.28	99.88	111.75
38	DG	97	PRO	N-CA-CB	9.26	112.97	103.25
54	BY	108	GLY	N-CA-C	9.24	121.47	112.04
43	DN	73	PRO	N-CA-CB	9.16	112.87	103.25
16	CO	117	ARG	N-CA-C	-9.15	101.18	111.71
16	CO	95	PRO	N-CA-CB	9.13	112.83	103.25
45	BP	121	PRO	N-CA-CB	9.13	112.83	103.25
37	BF	14	ASP	N-CA-C	9.12	120.74	107.88
17	AP	116	ASP	N-CA-C	-9.10	100.19	111.11
45	DP	121	PRO	N-CA-CB	9.06	112.76	103.25
35	DD	241	GLY	N-CA-C	-9.04	102.73	115.30
36	BE	259	LYS	N-CA-C	-9.04	101.52	112.54
15	CN	71	PRO	N-CA-CB	9.02	110.89	103.32
3	AB	241	ASP	N-CA-C	-8.98	101.26	113.30
16	CO	61	ILE	N-CA-C	8.96	121.23	108.42
44	BO	84	PRO	N-CA-CB	8.93	112.43	102.60
8	AG	41	ALA	N-CA-C	-8.92	102.10	113.16
57	Db	68	PRO	N-CA-CB	8.91	112.61	103.25
42	BK	166	LYS	N-CA-C	-8.89	101.98	112.92
38	DG	71	ALA	N-CA-C	-8.88	101.51	111.82
59	Bd	14	LYS	N-CA-C	8.82	122.11	108.96
45	DP	58	LEU	N-CA-C	-8.82	92.01	110.80
37	BF	157	GLN	N-CA-C	-8.81	100.54	111.11
58	Bc	39	PRO	N-CA-CB	8.81	112.29	102.60
42	DK	139	THR	N-CA-C	-8.80	102.70	113.97
42	DK	8	PRO	N-CA-CB	8.78	112.26	102.60
42	BK	8	PRO	N-CA-CB	8.72	112.20	102.60
58	Bc	44	ILE	N-CA-C	-8.71	101.92	110.72
45	DP	130	LYS	N-CA-C	-8.69	97.76	109.84
29	D1	244	G	N1-C6-O6	8.68	145.94	119.90
44	BO	162	ARG	N-CA-C	-8.65	102.43	113.16
57	Bb	26	HIS	N-CA-C	8.63	120.37	110.97
14	AM	104	VAL	N-CA-C	-8.61	101.81	113.00
33	BB	232	GLY	N-CA-C	-8.61	105.20	114.67
33	BB	202	VAL	N-CA-C	-8.59	104.91	112.12
34	DC	189	SER	N-CA-C	-8.58	102.81	113.28
37	DF	5	LYS	N-CA-C	8.58	119.22	107.73
47	BR	143	PRO	N-CA-CB	8.57	112.25	103.25
32	BA	121	PRO	N-CA-CB	8.57	110.54	101.88
42	DK	166	LYS	N-CA-C	-8.57	101.83	112.88
44	DO	137	PRO	N-CA-CB	8.55	112.23	103.25
44	DO	162	ARG	N-CA-C	-8.50	102.89	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	DR	143	PRO	N-CA-CB	8.50	112.18	103.25
2	CA	197	ILE	N-CA-C	-8.50	104.61	112.43
47	BR	36	LEU	N-CA-C	-8.49	99.66	110.19
3	AB	173	PRO	N-CA-CB	8.48	110.83	103.19
38	BG	97	PRO	N-CA-CB	8.46	112.13	103.25
38	DG	158	LYS	N-CA-C	8.44	122.17	108.32
43	BN	49	PRO	N-CA-CB	8.43	112.10	103.25
14	CM	100	ILE	N-CA-C	-8.42	102.33	110.42
34	DC	329	PRO	N-CA-CB	8.40	108.13	102.25
16	AO	95	PRO	N-CA-CB	8.39	112.06	103.25
45	BP	76	PRO	N-CA-CB	8.38	112.05	103.25
59	Dd	69	HIS	N-CA-C	-8.38	103.18	113.15
29	B1	244	G	N1-C6-O6	8.37	145.02	119.90
42	BK	146	GLY	N-CA-C	8.36	122.75	110.38
38	BG	197	GLN	N-CA-C	-8.35	103.11	113.38
38	DG	197	GLN	N-CA-C	-8.34	103.11	113.28
11	CJ	41	PRO	N-CA-CB	8.33	111.99	103.25
36	DE	259	LYS	N-CA-C	-8.30	102.42	112.54
54	BY	2	PRO	N-CA-CB	8.29	111.95	103.25
38	DG	106	LEU	N-CA-C	-8.25	103.22	113.20
44	DO	76	PRO	N-CA-CB	8.25	111.91	103.25
37	BF	11	PRO	N-CA-CB	8.24	111.91	103.25
50	DU	50	PRO	N-CA-CB	8.23	110.60	103.19
57	Bb	29	ALA	N-CA-C	8.23	120.43	108.34
21	CT	85	TRP	N-CA-C	-8.23	103.00	112.87
40	BI	40	HIS	N-CA-C	-8.22	98.12	109.71
35	DD	120	TYR	N-CA-C	-8.21	103.02	112.87
47	DR	61	PRO	N-CA-CB	8.21	111.87	103.25
47	BR	61	PRO	N-CA-CB	8.19	111.85	103.25
38	BG	158	LYS	N-CA-C	8.19	121.75	108.32
8	CG	41	ALA	N-CA-C	-8.16	103.04	113.16
15	CN	22	ILE	N-CA-C	-8.16	104.42	112.17
29	D1	2845	A	N1-C6-N6	8.15	143.05	118.60
12	AK	65	PRO	N-CA-CB	8.15	111.56	102.60
3	AB	175	GLY	N-CA-C	-8.13	103.59	115.30
12	CK	65	PRO	N-CA-CB	8.13	111.55	102.60
36	DE	174	PRO	N-CA-CB	8.13	111.78	103.25
38	BG	71	ALA	N-CA-C	-8.12	102.64	112.54
45	BP	110	PRO	CA-C-N	8.09	127.39	118.97
45	BP	110	PRO	C-N-CA	8.09	127.39	118.97
72	DL	88	PRO	N-CA-CB	8.07	110.91	103.08
10	AI	68	PRO	N-CA-CB	8.06	111.46	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	DC	312	VAL	N-CA-C	8.04	119.50	108.89
37	BF	171	PRO	N-CA-CB	8.03	111.69	103.25
48	DS	90	PRO	N-CA-CB	8.03	110.03	103.36
59	Dd	63	ARG	N-CA-C	-8.03	103.49	113.20
61	Df	5	PRO	N-CA-CB	8.02	111.67	103.25
4	AC	57	ASP	N-CA-C	-8.01	102.50	111.71
5	CD	129	PRO	N-CA-CB	8.00	111.65	103.25
42	BK	140	ARG	N-CA-C	-7.99	104.03	113.21
50	DU	117	PRO	N-CA-CB	7.98	110.37	103.19
36	BE	19	PRO	N-CA-CB	7.97	111.36	102.60
6	AE	43	TYR	N-CA-C	-7.96	102.83	112.54
2	CA	70	PRO	N-CA-CB	7.96	111.61	103.25
37	DF	75	PRO	N-CA-CB	7.96	111.61	103.25
3	CB	173	PRO	N-CA-CB	7.96	110.43	103.27
29	D1	2845	A	C6-N1-C2	7.96	142.47	118.60
61	Bf	5	PRO	N-CA-CB	7.95	111.60	103.25
45	BP	110	PRO	N-CA-CB	7.95	110.79	103.08
18	CQ	91	PRO	N-CA-CB	7.94	111.59	103.25
45	DP	76	PRO	N-CA-CB	7.94	111.59	103.25
72	DL	75	PRO	N-CA-CB	7.94	111.58	103.25
34	BC	189	SER	N-CA-C	-7.92	103.06	112.89
45	BP	5	PRO	N-CA-CB	7.92	111.56	103.25
14	AM	65	ILE	N-CA-C	-7.91	105.50	111.90
43	BN	73	PRO	N-CA-CB	7.91	111.55	103.25
3	CB	175	GLY	N-CA-C	-7.90	103.92	115.30
2	AA	133	ILE	N-CA-C	-7.90	102.56	110.62
34	BC	307	PRO	N-CA-CB	7.89	111.54	103.25
34	DC	9	PRO	N-CA-CB	7.88	111.52	103.25
45	DP	76	PRO	N-CA-C	-7.87	96.26	112.47
29	B1	2845	A	N1-C6-N6	7.87	142.20	118.60
50	DU	90	GLY	N-CA-C	-7.86	101.22	111.52
38	BG	46	GLU	N-CA-C	-7.86	102.95	112.54
45	DP	57	PHE	N-CA-C	7.85	124.47	113.56
17	AP	64	PRO	N-CA-CB	7.85	111.49	103.25
33	BB	184	ARG	N-CA-C	-7.84	103.46	112.87
44	BO	76	PRO	N-CA-CB	7.84	111.48	103.25
59	Bd	69	HIS	N-CA-C	-7.84	103.82	113.15
8	CG	130	ARG	N-CA-C	-7.84	102.82	112.38
15	CN	59	PRO	N-CA-CB	7.84	111.48	103.25
57	Db	123	LYS	N-CA-C	-7.83	94.11	110.80
36	DE	139	PRO	N-CA-CB	7.82	111.46	103.25
17	AP	42	PRO	N-CA-CB	7.82	111.46	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BE	174	PRO	N-CA-CB	7.82	111.46	103.25
37	DF	171	PRO	N-CA-CB	7.80	111.44	103.25
47	BR	157	PRO	N-CA-CB	7.79	111.43	103.25
34	BC	22	ALA	N-CA-C	7.78	122.42	110.36
47	BR	97	PRO	N-CA-CB	7.76	111.13	102.60
18	CQ	55	PRO	N-CA-CB	7.76	110.70	103.41
35	DD	133	SER	N-CA-C	-7.76	102.79	111.71
49	DT	101	CYS	N-CA-C	-7.75	103.92	113.15
8	AG	137	PRO	N-CA-CB	7.74	111.38	103.25
15	AN	59	PRO	N-CA-CB	7.73	111.37	103.25
4	AC	109	LEU	N-CA-C	-7.72	101.99	111.33
29	B1	2845	A	C6-N1-C2	7.72	141.76	118.60
51	BV	46	PRO	N-CA-CB	7.71	111.35	103.25
33	BB	158	ILE	N-CA-C	7.71	117.40	106.53
1	C1	1455	G	N1-C2-N2	7.70	139.31	116.20
45	DP	5	PRO	N-CA-CB	7.70	111.33	103.25
35	DD	240	PRO	N-CA-CB	7.70	111.33	103.25
3	AB	60	SER	N-CA-C	-7.69	102.39	112.24
48	BS	90	PRO	N-CA-CB	7.68	110.12	103.36
51	DV	46	PRO	N-CA-CB	7.68	111.32	103.25
38	DG	162	PRO	N-CA-CB	7.67	111.30	103.25
15	AN	110	PRO	N-CA-CB	7.67	110.17	103.27
36	BE	139	PRO	N-CA-CB	7.66	111.30	103.25
4	AC	126	VAL	N-CA-C	-7.66	103.22	110.42
10	CI	68	PRO	N-CA-CB	7.66	111.03	102.60
38	DG	236	ILE	N-CA-C	-7.66	105.30	112.96
36	DE	47	PRO	N-CA-CB	7.65	111.29	103.25
45	BP	58	LEU	N-CA-C	-7.65	94.50	110.80
44	BO	154	PRO	N-CA-CB	7.64	111.27	103.25
33	BB	103	PRO	N-CA-CB	7.64	111.27	103.25
58	Dc	44	ILE	N-CA-C	-7.63	103.36	110.53
11	AJ	51	PRO	N-CA-CB	7.63	111.26	103.25
34	BC	85	VAL	N-CA-C	7.62	118.65	107.37
41	DJ	18	PRO	N-CA-CB	7.62	111.25	103.25
35	BD	58	HIS	N-CA-C	-7.62	100.09	110.68
48	BS	163	ARG	N-CA-C	-7.61	104.52	113.88
45	DP	110	PRO	N-CA-CB	7.60	110.45	103.08
15	CN	110	PRO	N-CA-CB	7.59	110.10	103.27
45	DP	107	GLY	N-CA-C	-7.59	95.19	113.18
47	DR	97	PRO	N-CA-CB	7.59	110.95	102.60
45	DP	119	VAL	N-CA-C	7.58	118.66	111.91
10	AI	73	PRO	N-CA-CB	7.57	111.20	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	AG	136	PRO	N-CA-CB	7.56	110.41	103.08
42	DK	40	LEU	N-CA-C	-7.56	104.03	113.18
58	Dc	42	PRO	N-CA-CB	7.55	110.90	102.60
34	BC	180	GLU	N-CA-C	7.54	119.87	109.54
46	DQ	144	SER	N-CA-C	7.54	122.48	111.02
47	DR	157	PRO	N-CA-CB	7.54	111.16	103.25
11	AJ	41	PRO	N-CA-CB	7.54	111.16	103.25
54	BY	29	PRO	N-CA-CB	7.54	111.16	103.25
57	Bb	68	PRO	N-CA-CB	7.53	111.16	103.25
34	DC	281	LYS	N-CA-C	7.53	121.33	109.81
4	AC	163	PRO	N-CA-CB	7.53	111.15	103.25
11	CJ	51	PRO	N-CA-CB	7.53	111.16	103.25
18	AQ	91	PRO	N-CA-CB	7.51	111.14	103.25
54	DY	108	GLY	N-CA-C	7.51	121.32	111.70
21	CT	276	PRO	N-CA-CB	7.51	110.33	103.34
38	BG	166	ASN	N-CA-C	-7.51	102.50	112.72
57	Db	26	HIS	N-CA-C	7.51	119.36	111.03
17	CP	93	LEU	N-CA-C	-7.51	100.25	110.68
2	AA	70	PRO	N-CA-CB	7.50	111.13	103.25
33	BB	66	PRO	N-CA-CB	7.50	111.25	103.00
38	DG	166	ASN	N-CA-C	-7.50	102.52	112.72
4	CC	81	PRO	N-CA-CB	7.50	111.12	103.25
38	BG	99	PRO	N-CA-CB	7.49	111.12	103.25
58	Bc	42	PRO	N-CA-CB	7.49	110.84	102.60
40	DI	40	HIS	N-CA-C	-7.49	99.15	109.71
16	AO	73	GLY	N-CA-C	-7.49	102.48	112.14
14	CM	118	PRO	N-CA-CB	7.49	110.97	103.48
3	AB	37	PRO	N-CA-CB	7.49	111.11	103.25
38	BG	217	PRO	N-CA-CB	7.47	111.10	103.25
18	AQ	55	PRO	N-CA-CB	7.47	110.43	103.41
35	BD	218	ALA	N-CA-C	-7.46	103.23	111.36
55	DZ	28	LYS	N-CA-C	-7.46	102.13	112.12
3	CB	239	PRO	N-CA-CB	7.45	111.08	103.25
58	Dc	39	PRO	N-CA-CB	7.45	110.79	102.60
33	BB	178	PRO	N-CA-CB	7.43	111.05	103.25
6	AE	36	LEU	N-CA-C	-7.42	103.17	111.71
36	BE	47	PRO	N-CA-CB	7.42	111.04	103.25
51	DV	15	PRO	N-CA-CB	7.41	111.03	103.25
29	D1	1220	U	C3'-C2'-C1'	-7.41	93.89	101.30
4	AC	81	PRO	N-CA-CB	7.41	111.03	103.25
4	CC	43	PRO	N-CA-CB	7.41	111.03	103.25
57	Db	29	ALA	N-CA-C	7.39	119.21	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	DG	99	PRO	N-CA-CB	7.39	110.87	103.48
8	CG	136	PRO	N-CA-CB	7.39	110.25	103.08
37	DF	74	VAL	N-CA-C	7.38	124.83	108.88
17	CP	42	PRO	N-CA-CB	7.38	111.00	103.25
10	CI	73	PRO	N-CA-CB	7.38	111.00	103.25
37	DF	68	PRO	N-CA-CB	7.38	111.00	103.25
10	AI	38	PRO	N-CA-CB	7.37	110.98	103.25
32	DA	61	PRO	N-CA-CB	7.37	110.52	103.52
34	BC	9	PRO	N-CA-CB	7.37	111.92	102.86
37	BF	68	PRO	N-CA-CB	7.37	110.98	103.25
3	CB	74	PRO	N-CA-CB	7.37	110.98	103.25
4	CC	163	PRO	N-CA-CB	7.36	110.98	103.25
34	DC	190	GLU	N-CA-C	-7.36	99.22	111.37
38	BG	162	PRO	N-CA-CB	7.36	110.98	103.25
13	CL	76	PRO	N-CA-CB	7.36	110.98	103.25
42	BK	45	PRO	N-CA-CB	7.36	110.97	103.25
32	BA	56	PRO	N-CA-CB	7.36	110.97	103.25
36	BE	115	LEU	N-CA-C	-7.35	104.12	113.23
5	CD	110	ALA	N-CA-C	-7.34	103.21	111.07
19	CR	47	PRO	N-CA-CB	7.34	110.82	103.48
13	AL	76	PRO	N-CA-CB	7.34	110.96	103.25
36	DE	217	GLU	N-CA-C	-7.34	104.30	113.18
46	BQ	11	PRO	N-CA-CB	7.33	110.67	102.60
33	DB	103	PRO	N-CA-CB	7.33	110.95	103.25
36	DE	70	THR	N-CA-C	-7.33	99.35	111.37
15	AN	22	ILE	N-CA-C	-7.33	105.21	112.17
37	BF	75	PRO	N-CA-CB	7.33	110.94	103.25
40	BI	175	PHE	N-CA-C	-7.32	95.21	110.80
8	AG	85	PRO	N-CA-CB	7.32	110.65	102.60
6	CE	67	PRO	N-CA-CB	7.31	110.93	103.25
17	CP	64	PRO	N-CA-CB	7.31	110.92	103.25
38	BG	204	PRO	N-CA-CB	7.30	110.92	103.25
44	BO	112	ASN	N-CA-C	-7.30	103.47	112.38
33	DB	108	PRO	N-CA-CB	7.30	110.91	103.25
3	AB	239	PRO	N-CA-CB	7.30	110.91	103.25
35	BD	223	PRO	N-CA-CB	7.29	110.91	103.25
39	DH	239	GLY	N-CA-C	-7.29	103.44	112.77
56	Da	30	PRO	N-CA-CB	7.29	111.09	103.15
42	DK	131	MET	N-CA-C	7.29	120.48	109.63
37	BF	49	GLY	N-CA-C	-7.28	95.92	113.18
45	DP	7	VAL	N-CA-C	7.28	119.37	108.23
54	DY	1	MET	CA-C-N	7.28	128.94	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	DY	1	MET	C-N-CA	7.28	128.94	119.84
13	AL	57	ARG	N-CA-C	7.28	115.74	108.75
40	DI	175	PHE	N-CA-C	-7.28	95.29	110.80
15	AN	96	PRO	N-CA-CB	7.28	110.89	103.25
37	BF	57	HIS	N-CA-C	-7.28	103.33	113.37
14	CM	104	VAL	N-CA-C	-7.28	103.54	113.00
2	AA	68	PRO	N-CA-CB	7.27	110.89	103.25
36	DE	19	PRO	N-CA-CB	7.27	110.60	102.60
9	AH	94	PRO	N-CA-CB	7.27	110.88	103.25
38	BG	210	PRO	N-CA-CB	7.26	110.88	103.25
54	BY	83	PRO	N-CA-CB	7.26	110.88	103.25
8	CG	37	ILE	N-CA-C	-7.26	102.74	110.36
17	CP	88	PRO	N-CA-CB	7.26	110.87	103.25
38	BG	193	PRO	N-CA-CB	7.25	110.87	103.25
50	BU	90	GLY	N-CA-C	-7.25	102.02	111.52
2	CA	118	PRO	N-CA-CB	7.25	110.86	103.25
46	DQ	11	PRO	N-CA-CB	7.25	110.58	102.60
15	CN	96	PRO	N-CA-CB	7.25	110.86	103.25
8	AG	37	ILE	N-CA-C	-7.25	102.75	110.36
54	BY	50	PRO	N-CA-CB	7.22	110.83	103.25
34	DC	289	ASP	N-CA-C	7.22	121.80	112.12
73	DM	78	PRO	N-CA-CB	7.22	110.85	102.33
19	AR	47	PRO	N-CA-CB	7.22	110.70	103.48
3	CB	37	PRO	N-CA-CB	7.22	110.83	103.25
34	BC	267	ALA	N-CA-C	-7.21	98.56	110.17
9	CH	57	PRO	N-CA-CB	7.21	110.40	103.19
37	BF	123	PRO	N-CA-CB	7.21	110.81	103.25
33	DB	66	PRO	N-CA-CB	7.21	110.92	103.00
5	CD	88	PRO	N-CA-CB	7.20	110.81	103.25
4	AC	43	PRO	N-CA-CB	7.19	110.80	103.25
38	DG	151	ARG	N-CA-C	-7.19	103.17	112.23
36	BE	84	PRO	N-CA-CB	7.18	110.79	103.25
53	DX	101	PRO	N-CA-CB	7.18	110.79	103.25
41	BJ	179	PRO	N-CA-CB	7.18	110.79	103.25
40	DI	98	PRO	N-CA-CB	7.18	110.79	103.25
34	BC	289	ASP	N-CA-C	7.18	121.74	112.12
21	CT	267	PRO	N-CA-CB	7.18	110.49	102.60
14	AM	118	PRO	N-CA-CB	7.17	110.66	103.48
5	CD	90	ILE	N-CA-C	7.17	118.09	108.27
17	CP	116	ASP	N-CA-C	-7.17	102.27	111.02
34	DC	34	LYS	N-CA-C	-7.17	99.25	110.36
8	CG	82	PRO	N-CA-CB	7.16	110.77	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A1	1455	G	N1-C2-N2	7.16	137.69	116.20
8	CG	85	PRO	N-CA-CB	7.16	110.47	102.60
59	Dd	6	PRO	N-CA-CB	7.16	110.76	103.25
35	DD	205	PRO	N-CA-CB	7.14	110.75	103.25
34	BC	5	LYS	N-CA-C	-7.14	95.59	110.80
15	CN	55	PRO	N-CA-CB	7.14	110.75	103.25
12	CK	22	PRO	N-CA-CB	7.14	110.75	103.25
43	DN	20	VAL	N-CA-C	7.13	124.17	109.34
6	AE	67	PRO	N-CA-CB	7.12	110.73	103.25
54	DY	50	PRO	N-CA-CB	7.12	110.73	103.25
10	AI	53	PRO	N-CA-CB	7.12	110.43	102.60
54	DY	119	PRO	N-CA-CB	7.12	110.73	103.25
55	BZ	28	LYS	N-CA-C	-7.12	102.58	112.12
2	CA	11	PRO	N-CA-CB	7.12	110.72	103.25
50	DU	75	PRO	N-CA-CB	7.12	109.00	103.30
33	DB	202	VAL	N-CA-C	-7.12	106.14	112.12
7	CF	95	PRO	N-CA-CB	7.11	110.72	103.25
3	CB	182	PRO	N-CA-CB	7.11	110.72	103.25
15	CN	46	GLU	N-CA-C	-7.11	104.34	112.87
3	AB	85	PRO	N-CA-CB	7.11	110.71	103.25
34	DC	111	SER	N-CA-C	7.10	119.90	111.02
38	DG	96	PRO	N-CA-CB	7.10	109.96	103.08
49	DT	107	GLU	N-CA-C	-7.10	103.24	110.97
12	AK	22	PRO	N-CA-CB	7.09	110.70	103.25
39	BH	239	GLY	N-CA-C	-7.09	103.91	112.49
50	DU	122	CYS	N-CA-C	-7.09	103.72	112.38
21	AT	276	PRO	N-CA-CB	7.09	109.94	103.34
36	BE	181	PRO	N-CA-CB	7.09	110.70	103.25
38	BG	151	ARG	N-CA-C	-7.09	104.44	113.23
56	Ba	55	LEU	N-CA-C	-7.09	103.63	111.36
35	BD	205	PRO	N-CA-CB	7.09	110.69	103.25
37	DF	24	ALA	N-CA-C	-7.08	99.56	110.10
15	AN	36	ASN	N-CA-C	-7.08	103.57	111.28
3	AB	74	PRO	N-CA-CB	7.07	110.67	103.25
15	AN	55	PRO	N-CA-CB	7.07	110.67	103.25
10	CI	53	PRO	N-CA-CB	7.07	110.37	102.60
29	B1	3212	C	C6-N1-C1'	7.07	142.00	120.80
11	AJ	124	PRO	N-CA-CB	7.06	109.47	103.25
21	AT	247	PRO	N-CA-CB	7.06	110.67	103.25
44	DO	154	PRO	N-CA-CB	7.06	110.67	103.25
4	AC	192	PRO	N-CA-CB	7.06	110.66	103.25
48	BS	26	PRO	N-CA-C	-7.05	104.88	113.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
60	De	22	PRO	N-CA-CB	7.05	110.02	103.39
44	DO	45	PRO	N-CA-CB	7.05	109.90	103.20
6	AE	169	PRO	N-CA-CB	7.04	110.64	103.25
35	BD	49	ALA	N-CA-C	7.04	120.48	110.14
57	Bb	7	PRO	N-CA-CB	7.03	110.63	103.25
3	AB	171	PRO	N-CA-CB	7.03	110.63	103.25
35	BD	102	PRO	N-CA-CB	7.03	110.63	103.25
37	DF	123	PRO	N-CA-CB	7.02	110.62	103.25
37	BF	74	VAL	N-CA-C	7.02	124.04	108.88
45	BP	70	PRO	N-CA-CB	7.02	110.62	103.25
49	DT	63	VAL	N-CA-C	7.02	119.32	107.18
21	AT	267	PRO	N-CA-CB	7.01	110.31	102.60
10	CI	87	PRO	N-CA-CB	7.01	110.31	102.60
38	DG	235	PHE	N-CA-C	-7.01	104.31	112.86
33	BB	197	PRO	N-CA-CB	7.00	110.61	103.25
46	DQ	84	PRO	N-CA-CB	7.00	110.60	103.25
36	DE	255	PRO	N-CA-CB	7.00	110.60	103.25
32	BA	61	PRO	N-CA-CB	7.00	110.60	103.25
29	B1	3212	C	C2-N1-C1'	-7.00	97.81	118.80
41	BJ	47	PRO	N-CA-CB	6.99	110.59	103.25
35	BD	133	SER	N-CA-C	-6.99	103.67	111.71
54	BY	119	PRO	N-CA-CB	6.99	110.59	103.25
37	DF	61	ASN	N-CA-C	-6.99	98.66	113.20
11	CJ	65	ILE	N-CA-C	6.99	117.34	108.82
34	DC	307	PRO	N-CA-CB	6.98	110.58	103.25
35	BD	249	ILE	N-CA-C	-6.98	98.77	108.12
60	Be	22	PRO	N-CA-CB	6.98	110.58	103.25
9	AH	120	PRO	N-CA-CB	6.98	110.58	103.25
36	DE	192	PRO	N-CA-CB	6.98	110.58	103.25
54	DY	83	PRO	N-CA-CB	6.98	110.58	103.25
47	DR	43	PRO	N-CA-CB	6.97	110.57	103.25
9	CH	94	PRO	N-CA-CB	6.97	110.57	103.25
38	DG	210	PRO	N-CA-CB	6.97	110.57	103.25
48	BS	26	PRO	N-CA-CB	6.97	110.14	103.52
33	DB	178	PRO	N-CA-CB	6.96	110.56	103.25
7	AF	113	PRO	N-CA-CB	6.96	110.56	103.25
7	CF	113	PRO	N-CA-CB	6.96	110.56	103.25
35	DD	58	HIS	N-CA-C	-6.96	101.79	111.81
59	Bd	6	PRO	N-CA-CB	6.96	110.55	103.25
33	BB	210	PRO	N-CA-CB	6.95	110.55	103.25
34	BC	312	VAL	N-CA-C	6.95	118.07	108.89
62	Bg	60	CYS	N-CA-C	-6.95	106.69	114.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	DH	159	PRO	N-CA-CB	6.95	110.25	102.60
33	BB	108	PRO	N-CA-CB	6.95	110.55	103.25
59	Bd	40	PRO	N-CA-CB	6.95	110.24	102.60
14	AM	2	PRO	N-CA-CB	6.94	110.23	102.60
2	AA	197	ILE	N-CA-C	-6.93	106.05	112.43
32	BA	135	PRO	N-CA-CB	6.93	110.53	103.25
3	CB	85	PRO	N-CA-CB	6.93	110.53	103.25
11	CJ	124	PRO	N-CA-CB	6.93	109.35	103.25
32	DA	43	PRO	N-CA-CB	6.93	110.53	103.25
41	DJ	16	PRO	N-CA-CB	6.92	110.52	103.25
34	BC	63	PRO	N-CA-CB	6.92	110.52	103.25
7	AF	89	ALA	N-CA-C	6.92	119.02	109.54
8	AG	82	PRO	N-CA-CB	6.92	110.52	103.25
10	AI	75	PRO	N-CA-CB	6.92	110.52	103.25
35	BD	75	PRO	N-CA-CB	6.92	109.37	103.35
6	CE	169	PRO	N-CA-CB	6.92	110.52	103.25
37	DF	153	PRO	N-CA-CB	6.92	110.51	103.25
54	BY	133	LEU	N-CA-C	-6.92	103.84	112.90
12	AK	34	LEU	N-CA-C	-6.91	104.83	113.20
42	BK	30	LEU	N-CA-C	-6.91	102.97	111.33
2	CA	194	PRO	N-CA-CB	6.91	110.51	103.25
41	DJ	27	PRO	N-CA-CB	6.91	110.50	103.25
37	BF	7	PRO	N-CA-CB	6.91	110.50	103.25
36	DE	218	ARG	N-CA-C	-6.91	104.93	113.15
37	DF	7	PRO	N-CA-CB	6.91	110.50	103.25
32	BA	149	THR	N-CA-C	-6.91	104.11	112.54
3	CB	171	PRO	N-CA-CB	6.90	110.50	103.25
52	DW	66	PRO	N-CA-CB	6.90	110.50	103.25
54	DY	122	PRO	N-CA-CB	6.90	110.49	103.25
37	DF	157	GLN	N-CA-C	-6.90	102.83	111.11
56	Ba	30	PRO	N-CA-CB	6.90	110.67	103.15
39	BH	129	PRO	N-CA-CB	6.89	110.49	103.25
4	CC	192	PRO	N-CA-CB	6.89	110.48	103.25
44	BO	45	PRO	N-CA-CB	6.88	109.73	103.20
21	CT	30	PRO	N-CA-CB	6.88	110.11	103.51
37	DF	11	PRO	N-CA-CB	6.88	110.47	103.25
37	DF	57	HIS	N-CA-C	-6.87	103.88	113.37
21	AT	30	PRO	N-CA-CB	6.87	110.10	103.51
38	DG	198	ALA	N-CA-C	-6.87	103.72	111.14
3	AB	182	PRO	N-CA-CB	6.87	110.46	103.25
34	BC	40	PRO	N-CA-CB	6.87	110.46	103.25
34	DC	40	PRO	N-CA-CB	6.87	110.46	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AN	71	PRO	N-CA-CB	6.86	110.46	103.25
39	DH	129	PRO	N-CA-CB	6.86	110.46	103.25
52	DW	57	LEU	CA-C-N	6.86	134.05	121.70
52	DW	57	LEU	C-N-CA	6.86	134.05	121.70
36	BE	255	PRO	N-CA-CB	6.86	110.45	103.25
35	DD	75	PRO	N-CA-CB	6.86	109.70	103.33
17	AP	118	PRO	N-CA-CB	6.85	110.45	103.25
34	DC	63	PRO	N-CA-CB	6.85	110.45	103.25
72	DL	7	PRO	N-CA-CB	6.85	110.54	103.00
3	AB	138	PRO	N-CA-CB	6.85	110.44	103.25
37	DF	14	ASP	N-CA-C	6.85	118.55	108.14
53	DX	30	LEU	N-CA-C	-6.85	104.56	113.12
60	Be	24	PRO	N-CA-C	-6.84	101.55	111.33
16	CO	77	PRO	N-CA-CB	6.84	110.43	103.25
16	AO	77	PRO	N-CA-CB	6.84	110.43	103.25
2	AA	118	PRO	N-CA-CB	6.83	110.43	103.25
43	BN	20	VAL	N-CA-C	6.83	123.55	109.34
8	CG	47	PRO	N-CA-CB	6.83	110.42	103.25
10	CI	75	PRO	N-CA-CB	6.83	110.42	103.25
12	AK	37	GLU	N-CA-C	-6.83	104.92	113.18
45	BP	151	ASP	N-CA-C	-6.83	103.07	111.33
61	Df	56	PRO	N-CA-CB	6.83	110.42	103.25
49	BT	63	VAL	N-CA-C	6.83	117.95	107.78
16	CO	29	PRO	N-CA-CB	6.83	110.42	103.25
35	DD	21	PRO	N-CA-CB	6.83	110.42	103.25
35	DD	23	PRO	N-CA-CB	6.83	110.42	103.25
37	DF	36	PRO	N-CA-CB	6.83	110.42	103.25
33	BB	57	PRO	N-CA-CB	6.82	110.41	103.25
2	AA	194	PRO	N-CA-CB	6.82	110.41	103.25
32	DA	137	PRO	N-CA-CB	6.82	110.41	103.25
32	BA	126	PRO	N-CA-CB	6.82	110.41	103.25
2	CA	68	PRO	N-CA-CB	6.82	110.41	103.25
33	DB	57	PRO	N-CA-CB	6.82	110.41	103.25
35	DD	218	ALA	N-CA-C	-6.82	103.85	111.28
10	AI	87	PRO	N-CA-CB	6.82	110.10	102.60
45	BP	109	PRO	N-CA-CB	6.82	109.69	103.08
34	DC	266	ARG	N-CA-C	6.82	120.24	109.81
32	BA	43	PRO	N-CA-CB	6.81	110.40	103.25
41	DJ	214	PRO	N-CA-CB	6.81	110.40	103.25
49	BT	101	CYS	N-CA-C	-6.80	103.98	113.37
6	CE	114	TYR	N-CA-C	-6.80	103.63	112.68
2	CA	97	PRO	N-CA-CB	6.80	110.39	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	Db	7	PRO	N-CA-CB	6.80	110.39	103.25
44	BO	42	PRO	N-CA-CB	6.79	110.38	103.25
61	Bf	56	PRO	N-CA-CB	6.79	110.38	103.25
38	DG	46	GLU	N-CA-C	-6.79	104.25	112.54
50	BU	105	PRO	N-CA-CB	6.79	110.38	103.25
35	DD	29	PRO	N-CA-CB	6.79	110.38	103.25
47	BR	60	PRO	N-CA-CB	6.78	109.66	103.08
9	AH	57	PRO	N-CA-CB	6.78	110.37	103.25
72	DL	89	PRO	N-CA-CB	6.78	110.37	103.25
17	AP	31	LYS	N-CA-C	6.78	118.80	109.18
32	BA	137	PRO	N-CA-CB	6.78	110.36	103.25
13	CL	82	PRO	N-CA-CB	6.78	110.36	103.25
12	AK	17	ILE	N-CA-C	-6.77	106.05	113.43
2	AA	42	PRO	N-CA-CB	6.77	110.36	103.25
40	BI	13	PRO	N-CA-CB	6.77	110.36	103.25
43	DN	16	GLU	N-CA-C	6.77	119.71	109.63
2	AA	11	PRO	N-CA-CB	6.76	110.35	103.25
29	D1	3212	C	C6-N1-C1'	6.76	141.10	120.80
45	DP	70	PRO	N-CA-CB	6.76	110.35	103.25
51	BV	15	PRO	N-CA-CB	6.76	110.35	103.25
21	AT	287	PRO	N-CA-CB	6.76	110.34	103.25
36	BE	70	THR	N-CA-C	-6.76	100.29	111.37
2	AA	97	PRO	N-CA-CB	6.75	110.34	103.25
53	BX	23	PRO	N-CA-CB	6.75	110.03	102.67
45	BP	57	PHE	N-CA-C	6.75	122.94	113.56
21	CT	287	PRO	N-CA-CB	6.75	110.34	103.25
34	DC	82	PRO	N-CA-CB	6.75	109.63	103.08
40	DI	92	TYR	N-CA-C	6.75	125.17	110.80
42	BK	74	PRO	N-CA-CB	6.74	110.33	103.25
38	BG	96	PRO	N-CA-CB	6.74	109.62	103.08
14	CM	2	PRO	N-CA-CB	6.74	110.02	102.60
32	BA	59	PRO	N-CA-CB	6.74	110.32	103.25
54	DY	29	PRO	N-CA-CB	6.74	110.32	103.25
48	DS	125	LYS	N-CA-C	-6.73	105.14	113.15
40	BI	98	PRO	N-CA-CB	6.73	110.32	103.25
55	BZ	49	PRO	N-CA-CB	6.73	110.32	103.25
5	AD	67	PRO	N-CA-CB	6.73	110.40	103.00
32	DA	59	PRO	N-CA-CB	6.73	110.27	102.33
56	Ba	88	PRO	N-CA-CB	6.72	110.40	103.00
38	DG	144	ILE	N-CA-C	-6.72	104.30	110.82
43	DN	14	LEU	N-CA-C	6.72	125.12	110.80
37	BF	36	PRO	N-CA-CB	6.72	110.30	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	DJ	179	PRO	N-CA-CB	6.72	110.30	103.25
32	DA	212	PRO	N-CA-CB	6.71	110.30	103.25
39	DH	127	PRO	N-CA-CB	6.71	110.30	103.25
32	BA	212	PRO	N-CA-CB	6.71	110.30	103.25
2	AA	4	PRO	N-CA-CB	6.71	110.29	103.25
29	D1	244	G	C5-C6-O6	-6.71	108.49	128.60
35	BD	29	PRO	N-CA-CB	6.70	110.29	103.25
36	BE	284	ALA	N-CA-C	-6.70	103.67	110.97
3	CB	236	PRO	N-CA-CB	6.70	110.29	103.25
48	DS	163	ARG	N-CA-C	-6.70	105.64	113.88
54	BY	71	PRO	N-CA-CB	6.70	110.28	103.25
39	BH	159	PRO	N-CA-CB	6.69	109.96	102.60
1	A1	1455	G	N3-C2-N2	-6.69	99.83	119.90
54	BY	147	LEU	N-CA-C	6.69	119.52	108.48
3	AB	225	LEU	N-CA-C	6.69	125.05	110.80
61	Bf	38	GLN	N-CA-C	-6.69	103.08	111.11
32	DA	56	PRO	N-CA-CB	6.68	110.27	103.25
32	DA	135	PRO	N-CA-CB	6.68	110.27	103.25
57	Db	98	HIS	N-CA-C	-6.68	103.09	111.11
46	BQ	59	PRO	N-CA-CB	6.68	110.27	103.25
46	DQ	59	PRO	N-CA-CB	6.68	110.27	103.25
44	BO	137	PRO	N-CA-CB	6.68	110.26	103.25
57	Db	5	PRO	N-CA-CB	6.68	110.26	103.25
43	DN	58	ILE	CA-C-N	6.67	133.71	121.70
43	DN	58	ILE	C-N-CA	6.67	133.71	121.70
45	DP	157	GLU	N-CA-C	-6.67	103.10	111.11
8	AG	47	PRO	N-CA-CB	6.67	110.25	103.25
12	CK	17	ILE	N-CA-C	-6.67	105.62	113.42
10	CI	38	PRO	N-CA-CB	6.67	110.25	103.25
33	DB	206	PRO	N-CA-CB	6.67	110.58	103.52
37	DF	3	ALA	N-CA-C	6.66	116.85	108.45
40	BI	182	SER	N-CA-C	6.66	118.71	108.12
41	BJ	18	PRO	N-CA-CB	6.66	110.25	103.25
42	DK	146	GLY	N-CA-C	6.66	120.29	110.63
3	AB	236	PRO	N-CA-CB	6.66	110.24	103.25
33	BB	188	LYS	N-CA-C	-6.66	96.62	110.80
33	DB	197	PRO	N-CA-CB	6.66	110.24	103.25
36	DE	251	PRO	N-CA-CB	6.66	110.24	103.25
39	DH	176	PRO	N-CA-CB	6.66	110.24	103.25
40	DI	13	PRO	N-CA-CB	6.66	110.24	103.25
2	CA	4	PRO	N-CA-CB	6.65	109.84	103.19
44	DO	186	GLY	N-CA-C	6.65	124.18	115.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	Bb	5	PRO	N-CA-CB	6.65	110.23	103.25
45	BP	7	VAL	N-CA-C	6.64	118.40	108.23
45	BP	76	PRO	N-CA-C	-6.64	98.78	112.47
34	BC	82	PRO	N-CA-CB	6.64	109.52	103.08
1	C1	1455	G	N3-C2-N2	-6.64	99.98	119.90
8	CG	137	PRO	N-CA-CB	6.64	110.22	103.25
2	AA	207	PRO	N-CA-CB	6.64	110.22	103.25
31	B3	34	U	C3'-C2'-C1'	-6.64	94.66	101.30
36	DE	115	LEU	N-CA-C	-6.63	103.87	112.23
72	DL	34	PRO	N-CA-CB	6.63	110.22	103.25
42	BK	163	PHE	N-CA-C	-6.63	103.14	113.02
35	BD	128	ALA	N-CA-C	-6.63	105.32	113.41
36	DE	112	ARG	N-CA-C	-6.62	102.50	112.04
17	AP	88	PRO	N-CA-CB	6.62	110.20	103.25
36	DE	168	ASP	N-CA-C	-6.62	104.30	112.38
45	BP	29	ASN	N-CA-C	-6.62	104.78	112.92
5	CD	164	PRO	N-CA-CB	6.62	110.20	103.25
2	CA	207	PRO	N-CA-CB	6.62	110.20	103.25
57	Db	122	PRO	N-CA-CB	6.62	110.20	103.25
21	AT	57	PRO	N-CA-CB	6.62	110.20	103.25
39	BH	127	PRO	N-CA-CB	6.62	110.20	103.25
17	CP	29	TYR	N-CA-C	6.61	124.89	110.80
37	BF	153	PRO	N-CA-CB	6.61	110.19	103.25
72	DL	39	PRO	N-CA-CB	6.61	110.19	103.25
38	BG	218	ARG	N-CA-C	6.61	122.31	113.72
14	CM	31	PRO	N-CA-CB	6.61	110.19	103.25
37	BF	3	ALA	N-CA-C	6.60	117.85	108.74
37	DF	4	GLN	N-CA-C	6.60	124.86	110.80
42	DK	45	PRO	N-CA-CB	6.60	110.18	103.25
41	BJ	122	PRO	N-CA-CB	6.59	110.17	103.25
58	Dc	17	LEU	N-CA-C	-6.59	103.77	112.34
34	BC	281	LYS	N-CA-C	6.59	119.83	110.14
73	DM	10	GLU	N-CA-C	-6.59	105.25	113.55
35	DD	102	PRO	N-CA-CB	6.59	110.17	103.25
32	DA	121	PRO	N-CA-CB	6.58	110.16	103.25
38	DG	217	PRO	N-CA-CB	6.58	110.16	103.25
3	AB	132	ALA	N-CA-C	-6.58	105.37	113.19
34	BC	266	ARG	N-CA-C	6.58	119.16	109.69
5	AD	129	PRO	N-CA-CB	6.57	110.15	103.25
47	DR	60	PRO	N-CA-CB	6.57	109.45	103.08
13	AL	113	LEU	N-CA-C	-6.57	104.99	112.87
34	DC	100	ARG	N-CA-C	6.56	119.41	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	CD	203	LYS	N-CA-C	-6.56	104.21	111.82
48	DS	126	GLU	N-CA-C	-6.56	105.29	113.55
59	Bd	56	ARG	N-CA-C	6.55	119.09	108.34
45	DP	111	PRO	N-CA-CB	6.55	110.47	103.52
21	CT	158	PRO	N-CA-CB	6.55	110.12	103.25
2	AA	199	PRO	N-CA-CB	6.55	110.12	103.25
3	CB	234	PRO	N-CA-CB	6.54	110.12	103.25
37	DF	49	GLY	N-CA-C	-6.54	97.67	113.18
53	BX	101	PRO	N-CA-CB	6.54	110.11	103.25
33	DB	151	PRO	N-CA-CB	6.54	110.11	103.25
14	AM	31	PRO	N-CA-CB	6.53	110.11	103.25
2	CA	123	VAL	N-CA-C	6.53	119.10	108.97
6	CE	36	LEU	N-CA-C	-6.53	104.41	112.38
2	AA	35	PRO	N-CA-CB	6.53	110.10	103.25
10	AI	125	PRO	N-CA-CB	6.53	110.10	103.25
40	DI	30	PRO	N-CA-CB	6.53	110.10	103.25
55	DZ	49	PRO	N-CA-CB	6.53	110.10	103.25
5	CD	67	PRO	N-CA-CB	6.52	110.18	103.00
39	BH	99	PRO	N-CA-CB	6.52	110.10	103.25
47	BR	122	ILE	N-CA-C	6.52	121.47	113.00
14	CM	32	GLY	N-CA-C	-6.52	104.60	113.27
36	DE	181	PRO	N-CA-CB	6.52	110.09	103.25
36	BE	192	PRO	N-CA-CB	6.51	110.09	103.25
50	BU	29	SER	N-CA-C	-6.51	105.07	114.12
57	Db	53	PRO	N-CA-CB	6.51	110.08	103.25
17	CP	118	PRO	N-CA-CB	6.51	110.08	103.25
9	CH	120	PRO	N-CA-CB	6.50	110.07	103.25
33	DB	210	PRO	N-CA-CB	6.50	110.07	103.25
72	DL	47	ALA	N-CA-C	-6.49	105.34	113.20
14	AM	59	ALA	N-CA-C	-6.49	105.46	113.19
33	BB	206	PRO	N-CA-CB	6.49	110.71	103.44
6	CE	43	TYR	N-CA-C	-6.49	104.62	112.54
41	BJ	214	PRO	N-CA-CB	6.49	110.06	103.25
34	DC	85	VAL	N-CA-C	6.48	117.21	107.75
36	BE	221	GLU	N-CA-C	-6.48	104.86	112.89
43	BN	67	PRO	N-CA-CB	6.48	110.05	103.25
45	BP	130	LYS	N-CA-C	-6.48	100.83	109.84
56	Da	88	PRO	N-CA-CB	6.48	110.12	103.00
29	B1	244	G	C5-C6-O6	-6.48	109.17	128.60
47	BR	114	ILE	N-CA-C	-6.47	104.58	113.00
41	DJ	5	PRO	N-CA-CB	6.47	110.05	103.25
36	BE	162	ALA	N-CA-C	-6.47	103.50	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BJ	16	PRO	N-CA-CB	6.47	110.05	103.25
29	D1	3212	C	C2-N1-C1'	-6.47	99.38	118.80
38	BG	198	ALA	N-CA-C	-6.47	103.92	110.97
46	BQ	143	PRO	N-CA-CB	6.47	110.04	103.25
54	BY	122	PRO	N-CA-CB	6.47	110.04	103.25
33	DB	123	ARG	N-CA-C	6.47	118.70	108.67
36	BE	112	ARG	N-CA-C	-6.47	103.46	112.45
41	BJ	44	ASP	N-CA-C	-6.47	100.17	109.29
73	DM	31	ASP	N-CA-C	-6.47	105.36	113.18
3	AB	86	VAL	N-CA-C	6.46	116.73	106.32
45	DP	109	PRO	N-CA-CB	6.46	109.34	103.08
21	CT	247	PRO	N-CA-CB	6.46	110.03	103.25
1	C1	45	U	C2-N1-C1'	6.45	137.06	117.70
5	AD	88	PRO	N-CA-CB	6.45	110.02	103.25
43	BN	14	LEU	N-CA-C	6.45	124.54	110.80
43	BN	99	TRP	N-CA-C	-6.45	104.17	111.07
9	AH	122	PRO	N-CA-CB	6.45	110.02	103.25
7	CF	118	GLN	N-CA-C	6.45	119.23	109.95
11	CJ	87	LYS	N-CA-C	-6.44	104.44	113.20
21	AT	206	PRO	N-CA-CB	6.44	110.41	103.33
41	DJ	47	PRO	N-CA-CB	6.44	110.01	103.25
34	BC	100	ARG	N-CA-C	6.44	119.20	108.13
34	BC	291	GLU	N-CA-C	-6.43	103.39	111.11
47	BR	53	PHE	N-CA-C	6.43	117.95	111.07
37	DF	65	ILE	N-CA-C	6.43	122.72	109.34
3	CB	132	ALA	N-CA-C	-6.43	105.54	113.19
10	CI	109	PRO	N-CA-CB	6.43	109.91	103.48
5	AD	164	PRO	N-CA-CB	6.43	110.00	103.25
53	BX	96	PRO	N-CA-CB	6.43	110.00	103.25
38	DG	204	PRO	N-CA-CB	6.42	110.00	103.25
40	BI	30	PRO	N-CA-CB	6.42	109.99	103.25
13	CL	133	VAL	N-CA-C	6.42	116.45	110.42
49	DT	80	VAL	N-CA-C	6.42	122.69	109.34
39	DH	167	PRO	N-CA-CB	6.42	109.98	103.25
3	AB	234	PRO	N-CA-CB	6.41	109.98	103.25
45	DP	156	LEU	N-CA-C	-6.41	105.61	113.50
73	DM	92	PRO	N-CA-CB	6.41	109.98	103.25
17	CP	33	LEU	N-CA-C	6.40	124.44	110.80
44	DO	147	ARG	N-CA-C	-6.40	105.57	113.19
44	BO	71	ARG	N-CA-C	6.40	118.96	108.52
2	CA	174	TRP	N-CA-C	-6.40	105.33	113.01
39	BH	167	PRO	N-CA-CB	6.39	109.96	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BR	43	PRO	N-CA-CB	6.39	109.96	103.25
4	CC	126	VAL	N-CA-C	-6.39	104.29	110.42
43	BN	16	GLU	N-CA-C	6.39	119.15	109.63
42	DK	53	THR	N-CA-C	6.39	117.85	108.14
46	BQ	18	ARG	N-CA-C	6.38	116.49	108.45
2	CA	126	PRO	N-CA-CB	6.38	109.95	103.25
2	CA	199	PRO	N-CA-CB	6.38	109.95	103.25
35	BD	171	ALA	N-CA-C	-6.37	104.76	112.54
2	CA	42	PRO	N-CA-CB	6.37	109.94	103.25
16	CO	37	PHE	N-CA-C	-6.37	103.96	111.03
9	AH	39	ILE	N-CA-C	6.37	113.03	106.21
7	CF	108	PRO	N-CA-CB	6.37	109.47	102.72
34	DC	279	ASN	N-CA-C	6.37	124.37	110.80
39	BH	176	PRO	N-CA-CB	6.37	109.94	103.25
21	CT	57	PRO	N-CA-CB	6.36	109.92	103.25
1	C1	1455	G	N1-C6-O6	6.35	138.96	119.90
2	AA	126	PRO	N-CA-CB	6.35	109.92	103.25
47	DR	132	PRO	N-CA-CB	6.35	109.92	103.25
6	CE	79	ARG	N-CA-C	-6.35	104.45	111.82
3	CB	54	GLU	N-CA-C	-6.35	105.50	113.18
35	DD	142	VAL	N-CA-C	6.35	118.63	108.85
29	B1	2520	A	N1-C6-N6	6.34	137.63	118.60
5	CD	39	GLU	CA-C-N	6.34	133.12	121.70
5	CD	39	GLU	C-N-CA	6.34	133.12	121.70
42	BK	40	LEU	N-CA-C	-6.34	105.51	113.18
44	BO	74	PRO	N-CA-CB	6.34	109.91	103.25
3	AB	151	PRO	N-CA-CB	6.34	109.90	103.25
37	DF	27	PRO	N-CA-CB	6.34	109.90	103.25
21	AT	158	PRO	N-CA-CB	6.33	109.90	103.25
41	DJ	186	GLU	N-CA-C	-6.33	103.30	111.02
38	BG	96	PRO	N-CA-C	6.33	118.42	110.70
14	CM	59	ALA	N-CA-C	-6.32	104.64	113.37
2	CA	64	ILE	N-CA-C	-6.32	104.78	113.00
10	AI	109	PRO	N-CA-CB	6.32	110.21	103.39
33	DB	141	PRO	N-CA-CB	6.32	109.88	103.25
35	DD	223	PRO	N-CA-CB	6.32	109.88	103.25
9	CH	122	PRO	N-CA-CB	6.31	109.88	103.25
35	DD	128	ALA	N-CA-C	-6.31	105.71	113.41
52	BW	57	LEU	CA-C-N	6.31	133.05	121.70
52	BW	57	LEU	C-N-CA	6.31	133.05	121.70
59	Dd	40	PRO	N-CA-CB	6.31	109.54	102.60
13	AL	82	PRO	N-CA-CB	6.30	109.87	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AA	48	ILE	N-CA-C	6.30	112.95	106.21
36	DE	207	TYR	N-CA-C	-6.30	105.65	113.15
35	BD	23	PRO	N-CA-CB	6.30	109.86	103.25
46	BQ	84	PRO	N-CA-CB	6.30	109.86	103.25
42	BK	134	PRO	N-CA-CB	6.29	109.86	103.25
44	BO	125	SER	N-CA-C	-6.29	104.87	113.30
6	CE	144	PRO	N-CA-CB	6.29	109.86	103.25
36	DE	84	PRO	N-CA-CB	6.29	109.86	103.25
2	CA	35	PRO	N-CA-CB	6.29	109.85	103.25
36	DE	97	ALA	N-CA-C	-6.29	104.71	112.38
29	B1	3184	A	N1-C6-N6	6.28	137.45	118.60
36	DE	221	GLU	N-CA-C	-6.28	105.10	112.89
36	DE	51	LEU	N-CA-C	6.28	119.64	109.40
43	DN	105	GLN	N-CA-C	-6.28	104.93	112.59
44	DO	42	PRO	N-CA-CB	6.27	109.83	103.25
7	CF	112	SER	CA-C-N	6.27	127.67	119.84
7	CF	112	SER	C-N-CA	6.27	127.67	119.84
33	DB	188	LYS	N-CA-C	-6.26	97.45	110.80
43	BN	58	ILE	CA-C-N	6.26	132.97	121.70
43	BN	58	ILE	C-N-CA	6.26	132.97	121.70
11	AJ	35	PRO	N-CA-CB	6.26	109.82	103.25
35	BD	21	PRO	N-CA-CB	6.26	109.82	103.25
73	DM	198	PRO	N-CA-CB	6.26	109.82	103.25
2	AA	152	PRO	N-CA-CB	6.26	109.82	103.25
34	BC	83	PRO	N-CA-CB	6.26	109.82	103.25
46	DQ	57	ALA	N-CA-C	6.25	118.45	109.14
42	DK	30	LEU	N-CA-C	-6.25	103.77	111.33
2	CA	104	PRO	N-CA-CB	6.25	109.81	103.25
7	CF	130	PRO	N-CA-CB	6.24	109.81	103.25
5	AD	203	LYS	N-CA-C	-6.24	104.56	111.36
62	Dg	13	LYS	N-CA-C	-6.24	97.51	110.80
44	BO	77	LYS	N-CA-C	6.23	117.50	108.34
37	DF	69	PHE	N-CA-C	-6.23	104.49	111.28
7	AF	95	PRO	N-CA-CB	6.22	109.79	103.25
50	DU	67	PRO	N-CA-CB	6.22	109.79	103.25
33	BB	175	VAL	N-CA-C	-6.22	104.91	113.00
36	BE	24	ARG	N-CA-C	-6.22	104.39	112.23
45	BP	116	LYS	N-CA-C	6.22	124.05	110.80
46	BQ	123	PRO	N-CA-CB	6.22	109.78	103.25
50	BU	75	PRO	N-CA-CB	6.22	108.27	103.30
36	DE	252	ALA	N-CA-C	-6.21	105.19	112.89
16	AO	29	PRO	N-CA-CB	6.21	109.77	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	BY	70	LYS	N-CA-C	6.21	123.53	109.81
33	BB	151	PRO	N-CA-CB	6.20	109.76	103.25
33	BB	219	ILE	N-CA-C	6.20	122.23	109.34
48	BS	57	VAL	N-CA-C	6.20	117.22	108.36
2	AA	64	ILE	N-CA-C	-6.19	104.95	113.00
36	BE	218	ARG	N-CA-C	-6.19	105.59	113.02
52	BW	66	PRO	N-CA-CB	6.19	109.75	103.25
12	CK	37	GLU	N-CA-C	-6.19	105.73	113.28
45	DP	137	THR	N-CA-C	-6.19	97.61	110.80
34	DC	170	PRO	N-CA-CB	6.19	109.75	103.25
35	BD	142	VAL	N-CA-C	6.19	118.38	108.85
56	Da	12	TYR	N-CA-C	6.19	116.25	108.45
37	BF	4	GLN	N-CA-C	6.18	123.97	110.80
44	DO	112	ASN	N-CA-C	-6.18	104.60	111.71
3	AB	54	GLU	N-CA-C	-6.18	105.71	113.18
33	BB	141	PRO	N-CA-CB	6.17	109.73	103.25
36	DE	146	LEU	N-CA-C	6.17	117.70	110.97
52	DW	116	PRO	N-CA-CB	6.17	109.73	103.25
7	AF	130	PRO	N-CA-CB	6.17	109.72	103.25
2	AA	161	PRO	N-CA-CB	6.17	109.72	103.25
39	DH	99	PRO	N-CA-CB	6.16	109.72	103.25
42	BK	118	PRO	N-CA-CB	6.16	109.72	103.25
40	DI	157	ASN	N-CA-C	-6.16	102.14	111.56
17	AP	32	ARG	N-CA-C	6.16	123.92	110.80
42	DK	118	PRO	N-CA-CB	6.15	109.71	103.25
38	BG	155	LYS	N-CA-C	-6.15	105.83	113.15
47	BR	147	ARG	N-CA-C	6.14	119.54	108.48
53	DX	23	PRO	N-CA-CB	6.14	109.36	102.67
37	DF	53	VAL	N-CA-C	6.14	122.11	109.34
38	DG	200	ASN	N-CA-C	-6.14	105.65	113.01
6	AE	114	TYR	N-CA-C	-6.13	104.52	112.68
32	BA	23	THR	N-CA-C	6.13	113.81	108.78
53	DX	34	PRO	N-CA-CB	6.13	109.82	103.38
29	D1	2681	U	C6-N1-C1'	-6.13	102.81	121.20
2	CA	48	ILE	N-CA-C	6.12	112.76	106.21
2	AA	123	VAL	N-CA-C	6.12	117.96	109.45
29	B1	2681	U	C6-N1-C1'	-6.12	102.83	121.20
53	BX	30	LEU	N-CA-C	-6.12	105.47	113.12
34	DC	99	LEU	N-CA-C	6.12	119.45	109.59
35	BD	25	VAL	N-CA-C	-6.12	104.55	110.42
37	BF	23	LYS	N-CA-C	6.12	117.17	108.54
44	DO	74	PRO	N-CA-CB	6.12	109.67	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	CL	57	ARG	CA-C-O	6.12	122.18	118.33
20	CS	31	ILE	N-CA-C	6.12	122.06	109.34
3	AB	78	ASP	N-CA-C	6.11	118.33	108.32
40	DI	78	MET	N-CA-C	-6.11	104.31	110.97
52	BW	52	PRO	N-CA-CB	6.10	109.66	103.25
36	DE	162	ALA	N-CA-C	-6.10	103.95	111.33
57	Db	37	GLY	N-CA-C	6.10	121.24	112.82
3	AB	119	LYS	N-CA-C	-6.10	106.17	113.97
15	AN	38	SER	N-CA-C	-6.10	105.87	113.55
5	AD	198	LEU	N-CA-C	-6.10	104.91	112.90
45	DP	60	LYS	N-CA-C	-6.09	104.71	111.71
36	BE	251	PRO	N-CA-CB	6.09	109.64	103.25
31	D3	34	U	C3'-C2'-C1'	-6.09	95.21	101.30
52	DW	118	GLY	N-CA-C	-6.09	98.75	113.18
50	DU	84	SER	N-CA-C	6.08	118.56	109.25
73	DM	75	LYS	N-CA-C	-6.08	104.00	112.45
48	DS	26	PRO	N-CA-CB	6.08	109.64	103.25
21	CT	206	PRO	N-CA-CB	6.08	109.73	103.23
3	CB	227	PRO	N-CA-CB	6.08	109.63	103.25
1	A1	45	U	C2-N1-C1'	6.07	135.92	117.70
50	BU	127	PRO	N-CA-CB	6.07	110.01	103.33
72	DL	114	ARG	N-CA-C	-6.07	105.84	113.18
45	DP	50	ASN	N-CA-C	-6.07	103.98	111.75
35	DD	32	PRO	N-CA-CB	6.06	109.62	103.25
43	BN	15	VAL	N-CA-C	6.06	121.94	109.34
46	DQ	143	PRO	N-CA-CB	6.06	109.61	103.25
4	AC	103	GLU	N-CA-C	-6.05	104.75	111.71
17	AP	29	TYR	N-CA-C	6.05	123.69	110.80
72	DL	30	PRO	N-CA-CB	6.05	109.92	103.39
33	BB	123	ARG	N-CA-C	6.05	118.50	109.25
38	DG	139	PRO	N-CA-CB	6.05	109.60	103.25
38	BG	223	PHE	N-CA-C	-6.04	97.92	110.80
34	DC	33	PRO	N-CA-CB	6.04	109.59	103.25
38	DG	218	ARG	N-CA-C	6.04	121.70	113.97
43	BN	54	PRO	N-CA-CB	6.04	109.59	103.25
29	D1	3184	A	N1-C6-N6	6.04	136.71	118.60
37	BF	145	LEU	N-CA-C	-6.03	104.50	112.34
36	DE	198	TYR	N-CA-C	-6.03	101.48	111.37
42	DK	74	PRO	N-CA-CB	6.02	110.18	103.44
53	BX	34	PRO	N-CA-CB	6.02	109.70	103.38
57	Bb	53	PRO	N-CA-CB	6.00	109.56	103.25
58	Bc	62	GLN	N-CA-C	-6.00	105.52	114.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	D1	2845	A	C5-C6-N1	-6.00	99.69	117.70
34	DC	291	GLU	N-CA-C	-6.00	103.91	111.11
41	BJ	10	ARG	N-CA-C	5.99	118.88	109.96
33	BB	142	ASP	N-CA-C	-5.99	104.67	111.07
2	CA	152	PRO	N-CA-CB	5.98	109.53	103.25
53	DX	28	ARG	N-CA-C	-5.98	104.45	110.97
37	BF	27	PRO	N-CA-CB	5.98	109.53	103.25
29	D1	2520	A	N1-C6-N6	5.98	136.54	118.60
16	CO	32	LYS	N-CA-C	-5.98	104.77	111.28
59	Dd	56	ARG	N-CA-C	5.97	119.26	108.69
43	BN	105	GLN	N-CA-C	-5.97	105.31	112.59
40	BI	45	PHE	N-CA-C	-5.97	102.48	110.24
2	CA	115	PHE	N-CA-C	5.96	116.11	108.24
41	DJ	122	PRO	N-CA-CB	5.96	109.51	103.25
54	DY	62	HIS	N-CA-C	5.96	123.50	110.80
42	BK	53	THR	N-CA-C	5.96	117.20	108.14
39	DH	80	TYR	N-CA-C	-5.96	105.27	112.54
35	DD	102	PRO	N-CA-C	-5.96	100.20	112.47
50	DU	29	SER	N-CA-C	-5.96	105.98	113.72
35	DD	149	PRO	N-CA-CB	5.95	109.15	102.60
58	Bc	17	LEU	N-CA-C	-5.95	104.61	112.34
53	DX	33	ALA	N-CA-C	5.95	115.78	108.11
41	BJ	27	PRO	N-CA-CB	5.94	109.49	103.25
40	BI	96	HIS	N-CA-C	-5.94	104.89	114.09
33	DB	142	ASP	N-CA-C	-5.94	104.50	110.97
16	AO	129	VAL	N-CA-C	5.93	117.13	108.53
37	BF	65	ILE	N-CA-C	5.93	121.67	109.34
38	DG	98	LYS	N-CA-C	-5.93	104.11	112.17
1	C1	517	U	C2-N1-C1'	-5.92	99.93	117.70
42	DK	163	PHE	N-CA-C	-5.92	104.25	112.30
38	DG	240	VAL	N-CA-C	-5.92	105.94	111.45
38	BG	163	LEU	N-CA-C	-5.92	104.83	111.28
54	BY	114	GLY	N-CA-C	5.92	127.20	113.18
73	DM	71	PRO	N-CA-CB	5.92	110.61	103.45
11	AJ	126	PRO	N-CA-CB	5.91	109.46	103.25
2	AA	104	PRO	N-CA-CB	5.91	109.45	103.25
56	Da	55	LEU	N-CA-C	-5.91	104.76	111.14
50	BU	117	PRO	N-CA-CB	5.90	109.45	103.25
29	D1	2681	U	C2-N1-C1'	5.90	135.39	117.70
34	BC	170	PRO	N-CA-CB	5.89	109.44	103.25
36	BE	252	ALA	N-CA-C	-5.89	105.58	112.89
38	BG	87	VAL	N-CA-C	5.89	116.60	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	CJ	126	PRO	N-CA-CB	5.89	109.44	103.25
35	BD	149	PRO	N-CA-CB	5.89	109.08	102.60
42	BK	131	MET	N-CA-C	5.89	118.41	109.63
50	DU	105	PRO	N-CA-CB	5.89	109.44	103.25
33	DB	200	ARG	N-CA-C	5.89	118.45	111.33
36	BE	168	ASP	N-CA-C	-5.88	105.36	112.54
17	CP	32	ARG	N-CA-C	5.88	123.33	110.80
29	B1	3184	A	C6-N1-C2	5.88	136.24	118.60
34	DC	239	PRO	N-CA-CB	5.88	109.42	103.25
6	AE	144	PRO	N-CA-CB	5.87	109.42	103.25
45	BP	141	LEU	N-CA-C	-5.87	104.96	111.71
43	BN	34	ALA	N-CA-C	5.87	118.81	109.65
43	DN	67	PRO	N-CA-CB	5.87	109.41	103.25
2	AA	9	LEU	N-CA-C	-5.87	105.83	112.87
2	AA	169	SER	N-CA-C	-5.87	105.97	113.01
3	CB	225	LEU	N-CA-C	5.86	123.29	110.80
50	DU	127	PRO	N-CA-CB	5.86	109.72	103.39
36	BE	51	LEU	N-CA-C	5.86	119.02	109.59
60	De	21	ARG	N-CA-C	5.85	118.00	110.39
34	BC	190	GLU	N-CA-C	-5.85	101.71	111.37
45	DP	110	PRO	CA-C-N	5.85	125.39	119.19
45	DP	110	PRO	C-N-CA	5.85	125.39	119.19
37	BF	82	ARG	N-CA-C	5.85	117.41	109.11
48	DS	44	LEU	N-CA-C	-5.85	104.81	111.07
11	CJ	35	PRO	N-CA-CB	5.84	109.39	103.25
48	DS	138	LEU	N-CA-C	-5.84	104.99	111.36
7	AF	118	GLN	N-CA-C	5.84	118.36	109.95
58	Dc	62	GLN	N-CA-C	-5.84	105.77	114.64
57	Bb	33	ARG	N-CA-C	5.83	123.23	110.80
53	BX	33	ALA	N-CA-C	5.83	115.63	108.11
60	De	24	PRO	N-CA-CB	5.83	110.51	103.45
40	BI	97	PHE	N-CA-C	-5.83	101.49	110.58
34	BC	18	PRO	N-CA-CB	5.83	109.01	102.60
10	CI	60	LEU	N-CA-C	-5.82	104.30	111.75
54	DY	71	PRO	N-CA-CB	5.82	109.36	103.25
17	AP	33	LEU	N-CA-C	5.82	123.19	110.80
38	DG	193	PRO	N-CA-CB	5.81	109.35	103.25
54	DY	114	GLY	N-CA-C	5.81	126.96	113.18
6	CE	44	ARG	N-CA-C	-5.81	105.29	112.38
35	DD	249	ILE	N-CA-C	-5.81	97.25	109.34
35	BD	102	PRO	N-CA-C	-5.81	100.50	112.47
50	BU	67	PRO	N-CA-CB	5.81	109.81	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	CK	34	LEU	N-CA-C	-5.80	106.05	113.01
15	AN	85	ARG	N-CA-C	5.80	118.12	109.25
41	BJ	161	GLY	N-CA-C	5.80	118.60	111.93
49	DT	54	HIS	N-CA-C	5.80	123.15	110.80
48	DS	57	VAL	N-CA-C	5.80	116.65	108.36
29	B1	2681	U	C2-N1-C1'	5.79	135.09	117.70
46	DQ	135	ARG	N-CA-C	5.79	117.77	110.24
43	DN	99	TRP	N-CA-C	-5.79	103.95	111.02
33	DB	175	VAL	N-CA-C	-5.79	105.20	113.07
2	CA	133	ILE	N-CA-C	-5.78	104.72	110.62
46	DQ	125	GLN	N-CA-C	5.78	113.52	108.78
45	DP	171	LYS	N-CA-C	-5.78	105.12	111.82
41	BJ	90	ARG	N-CA-C	5.78	119.91	112.86
38	DG	52	GLN	N-CA-C	-5.78	106.28	113.15
43	DN	54	PRO	N-CA-CB	5.78	109.31	103.25
49	BT	80	VAL	N-CA-C	5.77	121.34	109.34
54	DY	26	ARG	N-CA-C	-5.77	104.36	111.75
35	DD	258	LEU	N-CA-C	-5.77	98.52	110.80
37	BF	117	LYS	N-CA-C	5.76	118.27	109.62
21	AT	85	TRP	N-CA-C	-5.76	105.96	112.87
45	DP	116	LYS	N-CA-C	5.76	123.07	110.80
46	DQ	125	GLN	CA-C-O	5.76	121.28	117.94
29	B1	1884	A	C6-N1-C2	5.76	135.87	118.60
2	CA	142	PRO	N-CA-CB	5.76	109.62	103.52
2	CA	161	PRO	N-CA-CB	5.76	109.30	103.25
37	BF	43	LEU	N-CA-C	-5.75	104.38	111.40
72	DL	83	THR	N-CA-C	-5.75	105.97	112.87
53	DX	49	PRO	N-CA-CB	5.75	109.29	103.25
52	DW	52	PRO	N-CA-CB	5.75	109.29	103.25
47	DR	122	ILE	N-CA-C	5.75	120.47	113.00
61	Df	38	GLN	N-CA-C	-5.75	104.21	111.11
2	AA	174	TRP	N-CA-C	-5.74	105.98	112.87
39	BH	101	THR	N-CA-C	-5.74	104.87	112.34
13	AL	109	LEU	N-CA-C	-5.74	104.02	111.02
34	BC	279	ASN	N-CA-C	5.74	123.03	110.80
54	BY	75	LEU	N-CA-C	-5.74	106.32	113.15
43	DN	98	SER	N-CA-C	-5.74	105.45	113.37
49	DT	39	ILE	N-CA-C	5.74	116.64	107.98
11	CJ	103	ASN	N-CA-C	-5.73	106.38	113.19
60	Be	24	PRO	N-CA-CB	5.72	110.38	103.45
17	AP	39	LYS	N-CA-C	5.72	119.24	111.17
45	BP	80	PHE	N-CA-C	-5.72	104.25	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	CP	31	LYS	N-CA-C	5.71	117.29	109.18
45	DP	151	ASP	N-CA-C	-5.71	104.25	111.11
53	BX	77	LYS	N-CA-C	-5.71	105.96	114.64
29	B1	2520	A	C6-N1-C2	5.71	135.73	118.60
44	DO	75	VAL	CA-C-N	5.71	126.97	119.84
44	DO	75	VAL	C-N-CA	5.71	126.97	119.84
30	D2	13	A	C4-N9-C1'	-5.70	109.20	126.30
36	DE	49	TYR	CA-C-N	5.69	131.95	121.70
36	DE	49	TYR	C-N-CA	5.69	131.95	121.70
34	DC	96	PRO	N-CA-C	-5.69	100.74	112.47
40	BI	127	PRO	N-CA-CB	5.69	109.22	103.25
8	AG	39	LYS	N-CA-C	-5.69	105.44	112.38
2	AA	142	PRO	N-CA-CB	5.68	109.80	103.44
46	DQ	52	LEU	N-CA-C	-5.68	98.70	110.80
37	BF	175	LYS	N-CA-C	5.68	122.90	110.80
16	CO	34	ILE	N-CA-C	-5.68	104.33	110.23
36	BE	266	ALA	N-CA-C	5.67	117.98	108.96
37	BF	149	ILE	CA-C-N	5.67	131.91	121.70
37	BF	149	ILE	C-N-CA	5.67	131.91	121.70
2	CA	169	SER	N-CA-C	-5.67	106.20	113.01
36	DE	15	ARG	N-CA-C	-5.67	101.91	110.70
7	AF	108	PRO	N-CA-CB	5.66	108.72	102.72
3	CB	58	LEU	N-CA-C	-5.66	104.98	112.34
1	A1	45	U	C6-N1-C1'	-5.66	104.22	121.20
29	B1	2845	A	C5-C6-N1	-5.66	100.72	117.70
33	DB	114	SER	N-CA-C	-5.66	102.43	110.35
49	DT	67	VAL	N-CA-C	5.66	121.11	109.34
37	BF	110	LYS	N-CA-C	-5.66	98.76	110.80
53	BX	49	PRO	N-CA-CB	5.66	109.19	103.25
34	DC	18	PRO	N-CA-CB	5.66	108.82	102.60
35	DD	171	ALA	N-CA-C	-5.66	105.64	112.54
62	Bg	27	LYS	N-CA-C	-5.65	106.43	113.55
37	DF	82	ARG	N-CA-C	5.65	117.14	109.11
42	DK	130	VAL	N-CA-C	5.65	121.09	109.34
36	DE	280	GLU	N-CA-C	-5.65	102.90	110.24
54	DY	100	PRO	N-CA-CB	5.65	109.18	103.25
35	BD	258	LEU	N-CA-C	-5.65	98.77	110.80
38	BG	206	LYS	N-CA-C	-5.64	98.78	110.80
36	DE	14	SER	N-CA-C	-5.64	103.82	111.55
34	BC	96	PRO	N-CA-C	-5.64	100.85	112.47
41	BJ	5	PRO	N-CA-CB	5.64	109.17	103.25
41	BJ	193	ASP	CB-CA-C	-5.64	110.05	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	BB	205	ASN	CA-C-N	5.64	125.00	118.85
33	BB	205	ASN	C-N-CA	5.64	125.00	118.85
37	BF	15	VAL	N-CA-C	5.63	121.06	109.34
38	BG	139	PRO	N-CA-CB	5.63	109.17	103.25
1	A1	517	U	C2-N1-C1'	-5.63	100.80	117.70
34	BC	239	PRO	N-CA-CB	5.63	109.16	103.25
54	BY	110	GLY	N-CA-C	5.63	118.38	110.38
43	DN	15	VAL	N-CA-C	5.63	121.04	109.34
13	AL	133	VAL	N-CA-C	5.62	115.70	110.42
37	BF	50	LYS	N-CA-C	5.62	122.78	110.80
2	CA	196	SER	CB-CA-C	-5.62	110.08	116.54
1	A1	1455	G	N1-C6-O6	5.61	136.74	119.90
36	BE	280	GLU	N-CA-C	-5.61	102.94	110.24
38	DG	178	ILE	N-CA-C	5.61	114.55	107.70
40	DI	97	PHE	N-CA-C	-5.61	101.82	110.58
47	BR	129	VAL	N-CA-C	-5.61	105.71	113.00
33	DB	158	ILE	N-CA-C	5.61	116.60	106.61
40	BI	92	TYR	N-CA-C	5.61	122.74	110.80
46	BQ	122	ALA	N-CA-C	5.60	122.19	109.81
54	BY	100	PRO	N-CA-CB	5.60	109.13	103.25
38	DG	223	PHE	N-CA-C	-5.60	98.87	110.80
48	BS	44	LEU	N-CA-C	-5.60	105.08	111.07
43	DN	34	ALA	N-CA-C	5.60	118.38	109.65
20	AS	31	ILE	N-CA-C	5.59	120.98	109.34
15	CN	85	ARG	N-CA-C	5.59	117.34	108.67
5	AD	44	ASN	CB-CA-C	-5.59	110.11	116.54
38	DG	236	ILE	O-C-N	5.59	128.02	122.04
47	DR	56	LYS	N-CA-C	5.59	119.20	112.38
50	DU	89	ASP	N-CA-C	-5.59	105.10	111.14
35	BD	240	PRO	N-CA-CB	5.59	110.80	103.42
44	DO	155	VAL	N-CA-C	5.59	115.67	110.42
29	B1	32	U	C2-N1-C1'	-5.58	100.95	117.70
37	DF	110	LYS	N-CA-C	-5.58	98.91	110.80
45	DP	141	LEU	N-CA-C	-5.58	104.60	111.75
36	DE	220	SER	N-CA-C	-5.58	108.26	114.62
54	DY	2	PRO	N-CA-CB	5.58	109.11	103.25
37	BF	70	LYS	N-CA-C	5.58	122.67	110.80
47	BR	132	PRO	N-CA-CB	5.57	109.10	103.25
41	DJ	65	LEU	N-CA-C	-5.57	105.21	111.28
29	B1	3257	C	C2-N1-C1'	-5.57	102.09	118.80
34	DC	245	GLY	N-CA-C	-5.57	104.53	112.55
43	DN	106	ARG	N-CA-C	-5.57	106.84	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	AE	79	ARG	N-CA-C	-5.57	105.36	111.82
49	DT	83	ARG	N-CA-C	-5.57	101.17	109.96
35	BD	144	LYS	N-CA-C	5.56	119.65	112.86
52	DW	93	TYR	N-CA-C	-5.56	106.33	113.01
34	DC	22	ALA	N-CA-C	5.56	118.48	109.86
36	BE	141	PRO	N-CA-CB	5.56	109.08	103.25
36	DE	141	PRO	N-CA-CB	5.56	109.09	103.25
62	Dg	27	LYS	N-CA-C	-5.56	106.43	113.43
3	CB	138	PRO	N-CA-CB	5.55	109.08	103.25
41	BJ	160	PRO	N-CA-CB	5.55	109.08	103.25
3	CB	129	ILE	N-CA-C	-5.55	104.53	110.36
47	BR	19	PRO	N-CA-CB	5.54	109.07	103.25
15	CN	62	VAL	N-CA-C	5.54	114.34	106.53
46	DQ	123	PRO	N-CA-CB	5.54	109.07	103.25
5	CD	198	LEU	N-CA-C	-5.54	105.64	112.90
49	DT	64	VAL	N-CA-C	5.54	120.86	109.34
5	AD	142	PRO	N-CA-CB	5.54	110.29	103.15
45	BP	60	LYS	N-CA-C	-5.54	105.63	112.38
3	CB	151	PRO	N-CA-CB	5.53	109.06	103.25
39	BH	103	ALA	N-CA-C	-5.53	105.15	111.07
56	Ba	26	LYS	N-CA-C	5.53	122.58	110.80
5	CD	142	PRO	N-CA-CB	5.53	110.29	103.15
7	AF	112	SER	CA-C-N	5.53	126.75	119.84
7	AF	112	SER	C-N-CA	5.53	126.75	119.84
32	DA	178	VAL	N-CA-C	5.53	114.77	106.42
2	AA	125	ASP	N-CA-C	5.53	116.72	108.76
38	DG	206	LYS	N-CA-C	-5.53	99.03	110.80
36	BE	185	PHE	CA-C-N	5.53	131.65	121.70
36	BE	185	PHE	C-N-CA	5.53	131.65	121.70
36	BE	217	GLU	N-CA-C	-5.53	106.49	113.18
52	BW	116	PRO	N-CA-CB	5.52	109.05	103.25
10	AI	39	ALA	N-CA-C	-5.52	105.42	111.82
29	D1	32	U	C2-N1-C1'	-5.51	101.16	117.70
53	DX	96	PRO	N-CA-CB	5.51	109.04	103.25
44	BO	83	LYS	N-CA-C	5.51	121.99	109.81
44	DO	71	ARG	N-CA-C	5.51	117.94	109.07
39	BH	143	ILE	N-CA-C	-5.51	107.38	112.83
47	DR	52	LEU	N-CA-C	-5.51	104.67	111.33
62	Bg	13	LYS	N-CA-C	-5.50	99.08	110.80
29	D1	3184	A	C6-N1-C2	5.50	135.11	118.60
41	DJ	170	LYS	CA-C-N	5.50	131.60	121.70
41	DJ	170	LYS	C-N-CA	5.50	131.60	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C1	45	U	C6-N1-C1'	-5.50	104.70	121.20
13	CL	33	THR	N-CA-C	-5.50	106.25	113.12
37	DF	20	LYS	N-CA-C	5.50	113.29	108.78
10	CI	125	PRO	N-CA-CB	5.49	109.02	103.25
45	DP	109	PRO	CA-C-N	5.49	126.03	120.38
45	DP	109	PRO	C-N-CA	5.49	126.03	120.38
54	DY	4	ARG	N-CA-C	-5.49	106.49	114.12
37	BF	69	PHE	N-CA-C	-5.49	105.30	111.28
1	C1	517	U	C6-N1-C1'	5.48	137.65	121.20
57	Bb	67	SER	CA-C-N	5.48	126.69	119.84
57	Bb	67	SER	C-N-CA	5.48	126.69	119.84
41	BJ	170	LYS	CA-C-N	5.48	131.57	121.70
41	BJ	170	LYS	C-N-CA	5.48	131.57	121.70
34	DC	12	GLY	N-CA-C	5.47	126.15	113.18
37	DF	15	VAL	N-CA-C	5.47	120.72	109.34
50	BU	60	ALA	N-CA-C	5.47	117.50	109.24
9	AH	47	LYS	N-CA-C	5.46	116.94	109.18
37	DF	23	LYS	N-CA-C	5.46	116.24	108.54
48	BS	14	VAL	N-CA-C	5.46	115.56	110.42
36	DE	246	ALA	N-CA-C	-5.46	99.16	110.80
32	DA	179	LEU	N-CA-C	-5.46	106.98	113.97
39	DH	143	ILE	N-CA-C	-5.46	107.42	112.83
72	DL	45	ASP	N-CA-C	-5.46	106.65	113.15
34	DC	180	GLU	N-CA-C	5.46	117.02	109.54
37	DF	50	LYS	N-CA-C	5.45	122.42	110.80
34	BC	245	GLY	N-CA-C	-5.45	104.70	112.55
59	Bd	57	HIS	CA-C-N	5.45	131.51	121.70
59	Bd	57	HIS	C-N-CA	5.45	131.51	121.70
37	DF	145	LEU	N-CA-C	-5.45	105.26	112.34
3	CB	67	GLN	N-CA-C	-5.45	104.71	111.90
41	BJ	168	SER	N-CA-C	5.45	122.40	110.80
38	BG	132	PRO	N-CA-CB	5.44	108.96	103.25
39	DH	200	LEU	N-CA-C	5.44	115.02	107.73
29	B1	606	C	C2-N1-C1'	5.44	135.12	118.80
47	DR	130	ARG	N-CA-C	-5.44	105.45	112.68
45	DP	69	GLY	N-CA-C	5.44	123.43	112.34
34	BC	158	VAL	N-CA-C	-5.44	98.03	109.34
5	CD	46	TRP	N-CA-C	-5.42	105.92	112.54
35	BD	151	VAL	N-CA-C	5.42	116.98	109.45
62	Dg	51	ALA	CB-CA-C	-5.41	109.87	117.23
44	BO	147	ARG	N-CA-C	-5.41	106.75	113.19
48	BS	126	GLU	N-CA-C	-5.41	106.73	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	CT	75	ALA	N-CA-C	-5.41	104.79	111.33
36	BE	97	ALA	N-CA-C	-5.41	106.76	113.19
45	BP	152	VAL	N-CA-C	-5.41	105.34	110.42
47	DR	145	ASN	CA-C-N	5.40	131.43	121.70
47	DR	145	ASN	C-N-CA	5.40	131.43	121.70
2	AA	120	LEU	N-CA-C	5.40	119.17	112.58
46	BQ	144	SER	N-CA-C	5.40	122.30	110.80
10	CI	39	ALA	N-CA-C	-5.40	105.96	112.54
34	BC	98	GLY	N-CA-C	5.38	118.96	111.10
34	DC	81	THR	N-CA-C	5.38	121.71	109.81
53	DX	60	ARG	N-CA-C	5.38	119.83	113.16
54	DY	110	GLY	N-CA-C	5.38	118.02	110.38
45	BP	119	VAL	N-CA-C	5.38	120.53	109.34
11	AJ	111	SER	N-CA-C	-5.38	106.31	112.92
54	DY	11	HIS	N-CA-C	-5.37	103.27	110.24
34	DC	200	GLU	N-CA-C	-5.36	99.39	110.80
1	A1	1437	U	C2-N1-C1'	-5.35	101.64	117.70
47	BR	130	ARG	N-CA-C	-5.35	105.81	112.93
11	AJ	53	LEU	N-CA-C	-5.35	105.36	111.14
58	Dc	14	LYS	N-CA-C	-5.35	105.56	111.71
36	BE	49	TYR	CA-C-N	5.35	131.33	121.70
36	BE	49	TYR	C-N-CA	5.35	131.33	121.70
34	DC	55	THR	N-CA-C	5.35	118.26	109.76
41	DJ	159	PHE	CA-C-N	5.35	126.53	119.84
41	DJ	159	PHE	C-N-CA	5.35	126.53	119.84
57	Bb	89	THR	CA-C-N	5.35	131.33	121.70
57	Bb	89	THR	C-N-CA	5.35	131.33	121.70
39	DH	188	THR	N-CA-C	-5.35	105.10	111.03
29	D1	2520	A	C6-N1-C2	5.34	134.62	118.60
36	BE	31	TYR	N-CA-C	-5.34	105.40	112.34
72	DL	46	ILE	N-CA-C	-5.34	107.17	113.42
36	BE	220	SER	N-CA-C	-5.34	108.54	114.62
54	BY	27	LYS	N-CA-C	5.34	122.17	110.80
5	AD	110	ALA	N-CA-C	-5.33	104.71	111.11
54	BY	44	ASN	CA-C-N	5.33	129.75	122.34
54	BY	44	ASN	C-N-CA	5.33	129.75	122.34
7	CF	89	ALA	N-CA-C	5.33	119.57	108.53
33	BB	185	ALA	N-CA-C	-5.33	104.93	111.75
35	DD	195	ARG	N-CA-C	5.33	117.27	110.61
55	DZ	16	LEU	N-CA-C	-5.33	105.56	111.36
37	BF	67	GLY	CA-C-N	5.32	126.49	119.84
37	BF	67	GLY	C-N-CA	5.32	126.49	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BG	53	LYS	N-CA-C	-5.32	105.91	112.72
48	BS	125	LYS	N-CA-C	-5.32	106.82	113.15
50	BU	12	ARG	CB-CA-C	-5.32	110.46	116.63
29	B1	3184	A	C5-C6-N1	-5.32	101.75	117.70
59	Dd	57	HIS	CA-C-N	5.32	131.27	121.70
59	Dd	57	HIS	C-N-CA	5.32	131.27	121.70
57	Db	32	TRP	CA-C-N	5.31	131.69	121.54
57	Db	32	TRP	C-N-CA	5.31	131.69	121.54
14	CM	6	VAL	N-CA-C	-5.31	105.58	113.39
41	DJ	121	LYS	N-CA-C	-5.31	102.98	110.31
14	AM	118	PRO	N-CA-C	-5.31	106.94	113.84
45	BP	107	GLY	N-CA-C	-5.31	100.60	113.18
11	AJ	103	ASN	N-CA-C	-5.30	106.89	113.19
52	BW	118	GLY	N-CA-C	-5.29	100.63	113.18
55	BZ	29	SER	N-CA-C	-5.29	106.52	112.87
8	AG	118	ILE	N-CA-C	-5.29	104.44	111.05
13	AL	51	ASP	N-CA-C	-5.29	107.19	113.38
62	Dg	11	THR	N-CA-C	-5.29	102.16	110.36
36	BE	198	TYR	N-CA-C	-5.29	102.70	111.37
33	DB	162	ALA	CB-CA-C	-5.29	110.46	116.54
45	BP	185	ALA	N-CA-C	-5.28	102.47	110.24
5	CD	97	LEU	N-CA-C	-5.28	104.58	111.02
16	AO	81	VAL	N-CA-C	5.28	120.32	109.34
35	BD	76	ARG	N-CA-C	5.28	122.03	110.80
37	DF	149	ILE	CA-C-N	5.27	131.19	121.70
37	DF	149	ILE	C-N-CA	5.27	131.19	121.70
38	DG	96	PRO	N-CA-C	5.27	117.13	110.70
40	DI	70	THR	N-CA-C	-5.26	105.50	112.34
36	BE	204	VAL	N-CA-C	-5.26	105.48	110.42
36	DE	266	ALA	N-CA-C	5.26	117.32	108.96
34	BC	360	ASP	N-CA-C	5.26	117.89	108.17
54	BY	62	HIS	N-CA-C	5.25	121.99	110.80
3	AB	62	PRO	N-CA-CB	5.25	108.77	103.25
29	B1	102	C	C2-N1-C1'	5.25	134.55	118.80
49	BT	107	GLU	N-CA-C	-5.25	105.25	110.97
37	DF	117	LYS	N-CA-C	5.25	117.50	109.62
62	Bg	29	LEU	N-CA-C	-5.25	106.14	112.54
34	BC	80	ASP	N-CA-C	5.25	119.55	113.20
37	BF	53	VAL	N-CA-C	5.25	120.25	109.34
21	CT	38	ARG	N-CA-C	-5.25	106.95	113.19
36	DE	117	GLU	N-CA-C	-5.25	106.57	112.87
46	BQ	82	ARG	N-CA-C	5.24	121.97	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	CC	109	LEU	N-CA-C	-5.24	104.99	111.33
34	BC	95	THR	N-CA-C	5.24	121.39	109.81
35	BD	30	ILE	N-CA-C	-5.24	101.97	108.89
29	B1	1884	A	N1-C6-N6	5.24	134.32	118.60
35	DD	49	ALA	N-CA-C	5.23	117.83	110.14
29	B1	308	A	C6-N1-C2	5.22	134.28	118.60
37	BF	64	LEU	N-CA-C	5.22	117.13	109.24
37	DF	21	THR	N-CA-C	5.22	121.93	110.80
14	CM	131	ASP	N-CA-C	-5.22	105.01	111.33
44	DO	125	SER	N-CA-C	-5.22	106.59	113.17
36	BE	278	SER	N-CA-C	-5.22	103.64	110.53
13	CL	76	PRO	N-CA-C	-5.22	101.72	112.47
36	DE	185	PHE	CA-C-N	5.22	131.09	121.70
36	DE	185	PHE	C-N-CA	5.22	131.09	121.70
3	AB	67	GLN	N-CA-C	-5.21	105.02	111.90
2	CA	196	SER	N-CA-C	5.21	116.24	108.31
13	AL	70	VAL	N-CA-C	-5.21	105.39	113.16
36	DE	104	LEU	N-CA-C	5.21	118.42	111.75
36	DE	289	LYS	CB-CA-C	-5.21	110.59	116.63
55	BZ	30	THR	N-CA-C	-5.21	105.52	111.14
57	Db	67	SER	CA-C-N	5.21	126.35	119.84
57	Db	67	SER	C-N-CA	5.21	126.35	119.84
37	BF	129	GLU	N-CA-C	-5.20	102.97	111.04
16	CO	73	GLY	N-CA-C	-5.20	105.43	112.14
55	BZ	16	LEU	N-CA-C	-5.20	105.69	111.36
40	DI	187	ILE	N-CA-C	5.20	116.14	108.45
57	Bb	32	TRP	CA-C-N	5.20	131.46	121.54
57	Bb	32	TRP	C-N-CA	5.20	131.46	121.54
7	AF	110	HIS	CA-C-N	5.19	131.05	121.70
7	AF	110	HIS	C-N-CA	5.19	131.05	121.70
45	BP	137	THR	N-CA-C	-5.19	99.74	110.80
37	DF	105	TYR	N-CA-C	-5.19	105.19	112.25
42	DK	128	TYR	N-CA-C	5.19	116.17	108.60
43	DN	47	ASP	N-CA-C	5.18	117.41	109.07
34	BC	99	LEU	N-CA-C	5.18	117.93	109.59
44	BO	95	GLN	N-CA-C	-5.18	106.22	112.54
9	AH	54	GLU	N-CA-C	-5.18	106.96	113.28
38	BG	157	ASN	N-CA-C	5.18	121.83	110.80
29	D1	1884	A	C6-N1-C2	5.18	134.13	118.60
38	DG	42	ALA	N-CA-C	-5.18	105.61	112.34
8	AG	130	ARG	N-CA-C	-5.18	105.61	112.34
14	AM	13	ASP	N-CA-C	-5.18	107.51	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BE	14	SER	N-CA-C	-5.17	104.47	111.55
11	AJ	87	LYS	N-CA-C	-5.17	106.17	113.20
58	Bc	14	LYS	N-CA-C	-5.17	105.77	111.71
46	DQ	67	ILE	N-CA-C	-5.17	102.84	109.30
57	Bb	122	PRO	N-CA-CB	5.16	108.67	103.25
16	CO	94	LEU	CA-C-N	5.16	126.29	119.84
16	CO	94	LEU	C-N-CA	5.16	126.29	119.84
36	DE	99	TYR	N-CA-C	-5.16	105.54	111.07
73	DM	11	TYR	N-CA-C	-5.16	105.10	111.40
15	AN	39	SER	N-CA-C	-5.16	105.35	110.97
1	A1	610	G	C4-N9-C1'	5.16	141.97	126.50
37	BF	10	TYR	CA-C-N	5.16	126.28	119.84
37	BF	10	TYR	C-N-CA	5.16	126.28	119.84
42	BK	128	TYR	N-CA-C	5.16	116.13	108.60
41	BJ	98	ARG	N-CA-C	5.15	116.13	108.86
2	CA	92	HIS	N-CA-C	-5.15	106.26	113.37
13	AL	42	TYR	N-CA-C	-5.15	104.93	111.11
40	BI	91	ARG	N-CA-C	5.15	121.10	114.56
33	BB	177	LYS	CA-C-N	5.15	126.27	119.84
33	BB	177	LYS	C-N-CA	5.15	126.27	119.84
47	DR	19	PRO	N-CA-CB	5.14	108.65	103.25
8	AG	133	ALA	N-CA-C	5.14	118.01	111.69
19	AR	16	LEU	CB-CA-C	-5.14	110.63	116.54
34	BC	33	PRO	N-CA-CB	5.14	108.64	103.25
33	DB	77	ILE	N-CA-C	5.13	115.44	107.28
40	DI	96	HIS	N-CA-C	-5.13	106.14	114.09
34	BC	200	GLU	N-CA-C	-5.13	99.87	110.80
34	BC	306	THR	CA-C-N	5.13	126.25	119.84
34	BC	306	THR	C-N-CA	5.13	126.25	119.84
34	BC	240	ARG	N-CA-C	5.12	121.71	110.80
40	BI	93	VAL	N-CA-C	5.12	115.60	108.84
49	BT	64	VAL	N-CA-C	5.12	120.00	109.34
41	DJ	63	GLU	N-CA-C	-5.12	105.19	111.75
36	BE	203	HIS	N-CA-C	-5.12	107.03	113.28
60	De	24	PRO	N-CA-C	-5.12	104.01	111.33
34	DC	240	ARG	N-CA-C	5.12	121.70	110.80
37	DF	175	LYS	N-CA-C	5.12	121.70	110.80
9	CH	54	GLU	N-CA-C	-5.11	107.04	113.28
30	B2	13	A	C4-N9-C1'	-5.11	110.97	126.30
40	BI	151	VAL	N-CA-C	-5.11	105.00	110.36
33	BB	58	LEU	N-CA-C	5.11	117.22	108.90
34	BC	81	THR	N-CA-C	5.11	121.09	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BC	135	ALA	N-CA-C	5.10	116.69	108.32
35	BD	266	THR	N-CA-C	5.10	121.67	110.80
2	AA	196	SER	CB-CA-C	-5.10	110.71	116.63
40	DI	45	PHE	N-CA-C	-5.10	103.61	110.24
10	CI	79	HIS	N-CA-C	-5.10	103.09	110.64
19	CR	16	LEU	CB-CA-C	-5.10	110.68	116.54
36	DE	96	ALA	N-CA-C	-5.09	107.74	114.31
36	DE	284	ALA	N-CA-C	-5.09	105.62	111.07
45	BP	111	PRO	N-CA-CB	5.09	108.68	103.23
57	Db	33	ARG	N-CA-C	5.09	121.63	110.80
35	BD	195	ARG	N-CA-C	5.08	117.39	110.88
49	BT	83	ARG	N-CA-C	-5.08	101.72	109.65
4	AC	156	PHE	N-CA-C	5.08	115.24	108.23
57	Db	89	THR	CA-C-N	5.08	130.85	121.70
57	Db	89	THR	C-N-CA	5.08	130.85	121.70
34	BC	34	LYS	N-CA-C	-5.08	102.49	110.36
39	BH	121	SER	N-CA-C	-5.08	107.03	113.43
3	AB	227	PRO	N-CA-CB	5.07	110.11	103.42
37	BF	104	GLU	N-CA-C	-5.07	104.51	111.81
44	DO	83	LYS	N-CA-C	5.07	121.02	109.81
40	DI	181	VAL	N-CA-C	5.07	117.05	109.20
16	AO	90	THR	N-CA-C	-5.07	107.12	113.15
38	BG	68	ASP	N-CA-C	-5.07	106.20	112.38
36	DE	24	ARG	N-CA-C	-5.07	105.94	111.82
30	D2	13	A	C8-N9-C1'	5.06	142.89	127.70
39	BH	200	LEU	N-CA-C	5.06	114.51	107.73
58	Bc	2	ALA	N-CA-C	-5.06	106.80	113.17
32	BA	11	GLU	N-CA-C	-5.05	107.24	113.41
34	DC	176	ALA	N-CA-C	5.05	121.57	110.80
15	AN	62	VAL	N-CA-C	5.05	113.65	106.53
48	DS	156	ASN	N-CA-C	-5.05	107.07	113.18
52	BW	93	TYR	N-CA-C	-5.05	106.95	113.01
29	D1	308	A	C6-N1-C2	5.05	133.74	118.60
34	DC	360	ASP	N-CA-C	5.05	117.30	108.52
39	BH	188	THR	N-CA-C	-5.04	105.43	111.03
50	DU	119	GLY	N-CA-C	5.04	119.56	111.64
46	BQ	35	ALA	N-CA-C	-5.04	106.22	112.93
52	BW	82	LEU	N-CA-C	5.04	117.00	109.59
35	DD	76	ARG	N-CA-C	5.04	121.53	110.80
1	A1	517	U	C6-N1-C1'	5.04	136.31	121.20
34	BC	75	ALA	N-CA-C	5.04	117.11	108.90
16	AO	52	TYR	N-CA-C	5.03	116.79	108.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	CF	110	HIS	CA-C-N	5.03	130.75	121.70
7	CF	110	HIS	C-N-CA	5.03	130.75	121.70
34	DC	93	VAL	N-CA-C	5.03	119.81	109.34
53	DX	90	VAL	N-CA-C	-5.03	106.46	113.00
52	DW	137	ASN	N-CA-C	-5.03	105.27	111.40
11	AJ	24	ALA	N-CA-C	5.03	117.33	110.24
44	BO	186	GLY	N-CA-C	5.03	122.05	115.47
2	CA	167	LYS	N-CA-C	-5.03	105.08	111.11
2	CA	138	TYR	N-CA-C	-5.02	106.66	112.89
37	DF	20	LYS	CB-CA-C	-5.02	109.83	117.07
34	DC	289	ASP	CA-C-N	5.02	130.74	121.70
34	DC	289	ASP	C-N-CA	5.02	130.74	121.70
35	DD	45	ASN	N-CA-C	5.02	118.87	112.34
34	BC	82	PRO	CA-C-N	5.02	126.11	119.84
34	BC	82	PRO	C-N-CA	5.02	126.11	119.84
41	BJ	163	GLN	N-CA-C	5.02	121.49	110.80
46	DQ	125	GLN	CB-CA-C	-5.02	109.84	117.07
42	BK	130	VAL	N-CA-C	5.02	119.78	109.34
11	AJ	48	VAL	N-CA-C	-5.01	106.77	111.48
6	CE	136	VAL	N-CA-C	5.01	113.82	106.55
29	D1	3212	C	N1-C2-O2	-5.01	103.86	118.90
33	DB	116	VAL	N-CA-C	5.01	114.98	107.51
73	DM	78	PRO	N-CA-C	-5.01	107.68	114.80
36	BE	146	LEU	N-CA-C	5.01	116.43	110.97
42	BK	123	PHE	N-CA-C	5.01	121.47	110.80
5	CD	175	LEU	N-CA-C	-5.01	105.10	111.11
38	DG	68	ASP	N-CA-C	-5.01	105.95	111.71
8	CG	94	LYS	N-CA-C	-5.01	105.27	111.33
34	DC	308	MET	CA-C-N	5.01	130.71	121.70
34	DC	308	MET	C-N-CA	5.01	130.71	121.70
41	BJ	45	GLU	CB-CA-C	-5.01	110.42	117.23
9	CH	7	ALA	N-CA-C	-5.01	104.52	111.28
45	DP	147	TRP	CA-C-N	5.00	130.71	121.70
45	DP	147	TRP	C-N-CA	5.00	130.71	121.70
42	BK	72	ARG	N-CA-C	5.00	114.44	107.73
34	DC	31	ALA	N-CA-C	5.00	116.32	107.61
38	DG	157	ASN	N-CA-C	5.00	121.46	110.80

There are no chirality outliers.

All (68) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	AB	224	PHE	Peptide
3	AB	225	LEU	Peptide
17	AP	28	ASN	Peptide
18	AQ	41	ILE	Peptide
23	Ab	14	UNK	Peptide
24	Ac	63	UNK	Peptide
29	B1	1884	A	Sidechain
29	B1	308	A	Sidechain
29	B1	3184	A	Sidechain
34	BC	239	PRO	Peptide
34	BC	313	HIS	Peptide
34	BC	4	ARG	Peptide
34	BC	95	THR	Peptide
34	BC	98	GLY	Peptide
35	BD	143	GLU	Peptide
36	BE	23	ARG	Peptide
37	BF	38	THR	Peptide
37	BF	60	ASP	Peptide
37	BF	69	PHE	Peptide
37	BF	91	VAL	Peptide
38	BG	165	ASP	Peptide
42	BK	51	ARG	Peptide
45	BP	121	PRO	Peptide
45	BP	130	LYS	Peptide
45	BP	56	ASP	Peptide
45	BP	58	LEU	Peptide
49	BT	49	GLN	Peptide
51	BV	54	LEU	Peptide
54	BY	1	MET	Peptide
54	BY	61	PHE	Peptide
56	Ba	24	SER	Peptide
57	Bb	122	PRO	Peptide
22	Bo	20	UNK	Peptide
3	CB	224	PHE	Peptide
3	CB	225	LEU	Peptide
17	CP	28	ASN	Peptide
18	CQ	41	ILE	Peptide
23	Cb	83	UNK	Peptide
29	D1	1884	A	Sidechain
29	D1	308	A	Sidechain
29	D1	3184	A	Sidechain
34	DC	239	PRO	Peptide
34	DC	281	LYS	Peptide

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Mol	Chain	Res	Type	Group
34	DC	313	HIS	Peptide
34	DC	4	ARG	Peptide
34	DC	95	THR	Peptide
34	DC	98	GLY	Peptide
35	DD	125	ALA	Peptide
35	DD	143	GLU	Peptide
36	DE	23	ARG	Peptide
37	DF	38	THR	Peptide
37	DF	60	ASP	Peptide
37	DF	69	PHE	Peptide
37	DF	91	VAL	Peptide
38	DG	165	ASP	Peptide
42	DK	51	ARG	Peptide
44	DO	187	ARG	Peptide
45	DP	121	PRO	Peptide
45	DP	130	LYS	Peptide
45	DP	57	PHE	Peptide
45	DP	58	LEU	Peptide
45	DP	75	ALA	Peptide
49	DT	49	GLN	Peptide
51	DV	54	LEU	Peptide
54	DY	1	MET	Peptide
54	DY	61	PHE	Peptide
56	Da	24	SER	Peptide
57	Db	122	PRO	Peptide

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	A1	38107	0	19170	5871	0
1	C1	38107	0	19169	6031	0
2	AA	1090	0	508	139	0
2	CA	1090	0	508	140	0
3	AB	1074	0	502	150	0
3	CB	1074	0	502	158	0
4	AC	928	0	448	101	0
4	CC	928	0	448	105	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	AD	836	0	391	119	0
5	CD	836	0	391	126	0
6	AE	777	0	362	99	0
6	CE	777	0	362	102	0
7	AF	382	0	164	27	0
7	CF	382	0	164	25	0
8	AG	580	0	266	78	0
8	CG	580	0	266	70	0
9	AH	627	0	312	69	0
9	CH	627	0	312	79	0
10	AI	596	0	272	63	0
10	CI	596	0	272	79	0
11	AJ	658	0	307	88	0
11	CJ	658	0	307	96	0
12	AK	332	0	146	32	0
12	CK	332	0	146	27	0
13	AL	591	0	261	82	0
13	CL	591	0	261	84	0
14	AM	521	0	251	73	0
14	CM	521	0	251	74	0
15	AN	551	0	229	84	0
15	CN	551	0	229	80	0
16	AO	622	0	283	66	0
16	CO	622	0	283	60	0
17	AP	566	0	260	81	0
17	CP	566	0	260	78	0
18	AQ	332	0	149	19	0
18	CQ	312	0	135	17	0
19	AR	230	0	100	12	0
19	CR	230	0	100	13	0
20	AS	190	0	85	50	0
20	CS	190	0	85	48	0
21	AT	1543	0	743	105	0
21	CT	1543	0	743	111	0
22	Aa	100	0	25	6	0
22	Bo	100	0	23	7	0
22	Ca	100	0	23	10	0
23	Ab	525	0	141	44	0
23	Cb	525	0	138	58	0
24	Ac	465	0	122	59	0
24	Cc	465	0	120	48	0
25	Ad	175	0	39	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	Cd	175	0	41	24	0
26	Ae	105	0	25	18	0
26	Bj	105	0	23	9	0
26	Dj	105	0	24	7	0
27	Af	55	0	15	3	0
28	Ah	205	0	51	29	0
28	Ch	205	0	50	33	0
29	B1	68577	0	34452	11544	0
29	D1	68577	0	34452	11469	0
30	B2	2579	0	1304	605	0
30	D2	2579	0	1304	616	0
31	B3	3353	0	1695	674	0
31	D3	3353	0	1695	623	0
32	BA	1055	0	453	36	0
32	DA	1055	0	453	40	0
33	BB	1106	0	512	108	0
33	DB	1106	0	512	128	0
34	BC	1791	0	839	282	0
34	DC	1791	0	839	282	0
35	BD	1312	0	651	182	0
35	DD	1312	0	651	173	0
36	BE	1412	0	670	238	0
36	DE	1412	0	670	237	0
37	BF	873	0	400	159	0
37	DF	873	0	400	156	0
38	BG	1061	0	492	157	0
38	DG	1061	0	492	161	0
39	BH	856	0	432	85	0
39	DH	856	0	432	77	0
40	BI	942	0	414	96	0
40	DI	942	0	414	97	0
41	BJ	1027	0	468	108	0
41	DJ	1027	0	468	112	0
42	BK	810	0	360	136	0
42	DK	810	0	360	130	0
43	BN	593	0	299	113	0
43	DN	593	0	299	121	0
44	BO	923	0	423	143	0
44	DO	923	0	423	128	0
45	BP	967	0	468	158	0
45	DP	967	0	468	169	0
46	BQ	761	0	371	106	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	DQ	761	0	371	117	0
47	BR	706	0	340	106	0
47	DR	706	0	340	98	0
48	BS	931	0	460	80	0
48	DS	931	0	460	87	0
49	BT	586	0	269	92	0
49	DT	586	0	269	77	0
50	BU	631	0	306	39	0
50	DU	631	0	306	45	0
51	BV	291	0	131	43	0
51	DV	291	0	131	39	0
52	BW	468	0	213	42	0
52	DW	468	0	213	50	0
53	BX	530	0	240	52	0
53	DX	530	0	240	48	0
54	BY	727	0	346	109	0
54	DY	727	0	346	106	0
55	BZ	481	0	224	33	0
55	DZ	481	0	224	37	0
56	Ba	425	0	191	54	0
56	Da	425	0	191	60	0
57	Bb	618	0	284	81	0
57	Db	618	0	284	85	0
58	Bc	339	0	155	39	0
58	Dc	339	0	155	42	0
59	Bd	352	0	161	67	0
59	Dd	352	0	161	63	0
60	Be	240	0	105	24	0
60	De	240	0	105	25	0
61	Bf	467	0	210	41	0
61	Df	467	0	210	44	0
62	Bg	407	0	203	66	0
62	Dg	407	0	203	69	0
63	Bh	220	0	57	34	0
63	Dh	220	0	53	35	0
64	Bi	60	0	16	5	0
64	Di	60	0	14	4	0
65	Bk	80	0	20	21	0
65	Dk	80	0	21	23	0
66	Bl	95	0	21	6	0
67	Bm	45	0	12	7	0
68	Bn	135	0	34	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	Bp	40	0	11	12	0
70	Bq	85	0	25	20	0
71	Br	115	0	27	20	0
72	DL	679	0	325	52	0
73	DM	641	0	281	71	0
74	A1	714	0	0	93	0
74	AL	7	0	0	0	0
74	AS	7	0	0	18	0
74	AT	7	0	0	1	0
74	Ac	7	0	0	0	0
74	B1	1547	0	0	191	0
74	B2	70	0	0	12	0
74	B3	84	0	0	14	0
74	BC	7	0	0	1	0
74	BO	7	0	0	0	0
74	BT	7	0	0	2	0
74	Bd	14	0	0	10	0
74	Bg	7	0	0	10	0
74	C1	707	0	0	100	0
74	CI	7	0	0	0	0
74	CS	14	0	0	16	0
74	CT	7	0	0	0	0
74	D1	1575	0	0	185	0
74	D2	63	0	0	16	0
74	D3	84	0	0	22	0
74	DC	7	0	0	0	0
74	DE	7	0	0	0	0
74	DJ	7	0	0	0	0
74	DO	14	0	0	6	0
74	DT	7	0	0	0	0
74	Dd	14	0	0	11	0
74	Dg	7	0	0	11	0
All	All	309610	0	149262	46170	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 101.

All (46170) 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)
63:Dh:14:UNK:CB	63:Dh:14:UNK:CA	1.77	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Cb:23:UNK:CB	23:Cb:23:UNK:CA	1.79	1.58
29:B1:592:A:H2'	29:B1:593:C:C4'	1.31	1.55
29:B1:606:C:H3'	29:B1:607:A:C8	1.39	1.54
29:D1:606:C:H3'	29:D1:607:A:C8	1.43	1.52
1:A1:825:U:C5	1:A1:847:A:N1	1.82	1.45
1:C1:825:U:C5	1:C1:847:A:N1	1.84	1.45
29:B1:592:A:C2'	29:B1:593:C:H4'	1.48	1.43
1:C1:650:U:H3	1:C1:684:A:N6	1.13	1.43
1:A1:650:U:H3	1:A1:684:A:N6	1.16	1.43
1:C1:743:U:N3	1:C1:809:A:C2	1.86	1.43
1:C1:825:U:H5	1:C1:847:A:N1	0.96	1.43
29:D1:516:A:H3'	29:D1:517:G:C8	1.55	1.42
30:B2:12:U:H3'	30:B2:13:A:C2	1.56	1.40
41:BJ:177:ASP:HA	41:BJ:179:PRO:N	1.35	1.39
1:A1:825:U:H5	1:A1:847:A:N1	0.94	1.38
1:C1:66:U:H3	1:C1:71:A:N6	1.19	1.38
29:B1:516:A:H3'	29:B1:517:G:C8	1.57	1.38
41:DJ:177:ASP:HA	41:DJ:179:PRO:N	1.40	1.36
1:C1:173:A:C2	1:C1:174:U:H1'	1.59	1.35
29:D1:562:C:H2'	29:D1:563:U:C6	1.59	1.35
1:A1:66:U:H3	1:A1:71:A:N6	1.19	1.35
29:D1:511:G:N2	29:D1:580:C:N3	1.75	1.35
30:D2:12:U:H3'	30:D2:13:A:C2	1.60	1.35
1:C1:143:G:O6	1:C1:172:C:N4	1.61	1.34
29:B1:562:C:H2'	29:B1:563:U:C6	1.64	1.33
29:B1:592:A:C2'	29:B1:593:C:C4'	2.06	1.31
1:C1:243:G:O6	1:C1:250:C:N4	1.61	1.31
1:A1:992:A:H2	1:A1:1012:U:N3	1.27	1.30
29:D1:2673:A:N6	29:D1:2681:U:O4	1.62	1.30
29:B1:2673:A:N6	29:B1:2681:U:O4	1.61	1.30
29:D1:644:G:H4'	29:D1:1153:A:C2	1.67	1.29
29:B1:513:G:N2	29:B1:577:C:N3	1.79	1.28
1:C1:10:G:OP1	1:C1:1633:A:H5'	1.32	1.28
1:C1:992:A:H2	1:C1:1012:U:N3	1.32	1.28
29:B1:3342:A:N6	29:B1:3363:U:H3	1.28	1.27
29:B1:576:C:H2'	29:B1:577:C:C5'	1.64	1.27
29:D1:531:G:N2	29:D1:561:C:O2	1.67	1.27
29:D1:3342:A:N6	29:D1:3363:U:H3	1.31	1.27
37:DF:41:ILE:N	37:DF:85:ILE:HA	1.50	1.27
29:B1:511:G:N2	29:B1:580:C:N3	1.82	1.26
45:BP:124:LEU:HA	45:BP:126:VAL:N	1.48	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:515:C:H2'	29:B1:516:A:O4'	1.33	1.26
29:B1:592:A:C3'	29:B1:593:C:H4'	1.63	1.26
29:D1:422:A:H1'	29:D1:423:A:C5'	1.65	1.26
29:D1:513:G:N2	29:D1:577:C:N3	1.83	1.25
29:D1:515:C:H2'	29:D1:516:A:O4'	1.31	1.25
1:C1:62:A:H3'	1:C1:62:A:OP2	1.37	1.25
29:D1:284:A:C2	29:D1:306:A:H1'	1.71	1.25
29:D1:378:A:H3'	29:D1:378:A:N3	1.51	1.25
30:B2:11:A:C2	36:BE:16:PHE:HA	1.71	1.25
29:B1:574:U:C2'	29:B1:575:G:H5"	1.67	1.24
29:B1:592:A:N3	29:B1:593:C:H1'	1.49	1.24
29:B1:715:A:C2	29:B1:784:A:H4'	1.73	1.24
29:D1:3317:U:H3'	29:D1:3317:U:OP1	1.34	1.24
29:D1:2667:A:H3'	29:D1:2667:A:N3	1.53	1.23
1:A1:448:C:H2'	1:A1:449:C:C6	1.74	1.23
1:C1:250:C:O2'	1:C1:251:A:H5'	1.34	1.23
45:DP:124:LEU:HA	45:DP:126:VAL:N	1.54	1.23
29:D1:2611:U:H2'	29:D1:2612:U:C6	1.72	1.23
29:B1:378:A:H3'	29:B1:378:A:N3	1.52	1.22
1:A1:243:G:C2	1:A1:251:A:N1	2.07	1.22
29:B1:1441:G:C2'	29:B1:1442:U:H5"	1.68	1.22
29:D1:118:U:O4	29:D1:150:A:N6	1.72	1.22
29:D1:576:C:H2'	29:D1:577:C:C5'	1.67	1.22
1:C1:1524:A:H2'	1:C1:1525:A:C8	1.74	1.22
31:D3:113:U:H1'	31:D3:114:G:OP2	1.36	1.22
1:C1:173:A:C6	1:C1:174:U:C6	2.28	1.21
29:D1:574:U:C2'	29:D1:575:G:H5"	1.68	1.21
29:D1:574:U:H2'	29:D1:575:G:C5'	1.71	1.20
29:D1:1479:U:H3'	29:D1:1480:G:C5'	1.70	1.20
37:DF:41:ILE:H	37:DF:85:ILE:CA	1.53	1.20
1:A1:160:C:H2'	1:A1:161:U:O4'	1.40	1.20
29:B1:286:U:H2'	29:B1:287:G:C8	1.74	1.20
29:B1:644:G:H4'	29:B1:1153:A:C2	1.75	1.20
1:C1:243:G:N1	1:C1:251:A:C6	2.08	1.20
29:B1:606:C:H2'	29:B1:607:A:C1'	1.72	1.20
31:B3:113:U:H1'	31:B3:114:G:OP2	1.33	1.20
1:C1:1201:G:H3'	1:C1:1201:G:N3	1.57	1.20
29:B1:562:C:H2'	29:B1:563:U:C5	1.77	1.19
29:B1:531:G:N2	29:B1:561:C:O2	1.73	1.19
29:B1:750:G:N2	29:B1:784:A:H1'	1.54	1.19
29:B1:829:U:H3	29:B1:895:A:N6	1.38	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:406:G:H1'	31:B3:16:G:N2	1.58	1.19
29:B1:3047:U:O2'	29:B1:3048:A:H5"	1.41	1.19
1:C1:448:C:H2'	1:C1:449:C:C6	1.75	1.19
1:A1:1201:G:H3'	1:A1:1201:G:N3	1.55	1.19
29:B1:574:U:H2'	29:B1:575:G:C5'	1.73	1.19
29:B1:1479:U:H3'	29:B1:1480:G:C5'	1.70	1.19
30:D2:12:U:H5'	30:D2:68:C:C1'	1.72	1.19
29:B1:618:C:H2'	29:B1:619:A:C8	1.78	1.19
29:D1:286:U:H2'	29:D1:287:G:C8	1.78	1.19
29:D1:3210:A:H3'	29:D1:3211:C:C6	1.77	1.18
1:A1:84:A:H2'	1:A1:85:A:H5'	1.23	1.18
29:B1:606:C:C3'	29:B1:607:A:C8	2.25	1.18
1:C1:186:C:N4	1:C1:199:G:H1	1.41	1.18
1:A1:686:C:H2'	1:A1:687:G:C8	1.79	1.18
24:Cc:1:UNK:H	24:Cc:74:UNK:HA	1.08	1.18
29:B1:284:A:C2	29:B1:306:A:H1'	1.79	1.18
29:B1:1196:C:C5	29:B1:1197:A:N7	2.11	1.18
29:B1:3317:U:H3'	29:B1:3317:U:OP1	1.41	1.18
1:C1:1348:A:H5"	15:CN:12:GLN:N	1.58	1.18
6:CE:80:LEU:HA	6:CE:81:VAL:CB	1.71	1.18
29:D1:1323:G:H3'	29:D1:1324:U:H5"	1.19	1.18
1:A1:66:U:N3	1:A1:71:A:N6	1.92	1.18
46:BQ:10:ASN:H	46:BQ:11:PRO:CA	1.57	1.18
1:C1:243:G:C2	1:C1:251:A:C2	2.32	1.18
29:D1:606:C:C3'	29:D1:607:A:C8	2.27	1.18
29:B1:2667:A:H3'	29:B1:2667:A:N3	1.55	1.17
46:BQ:10:ASN:N	46:BQ:11:PRO:HA	1.51	1.17
29:B1:2684:C:C6	29:B1:2684:C:H5'	1.77	1.17
29:B1:3219:G:C8	29:B1:3257:C:H5"	1.79	1.17
29:B1:1192:C:OP1	29:B1:1192:C:H3'	1.45	1.17
29:B1:2754:G:H3'	29:B1:2755:C:H5'	1.19	1.17
31:B3:40:A:H2'	31:B3:41:A:H8	1.02	1.17
29:B1:717:C:H41	29:B1:721:G:H5'	1.03	1.17
1:C1:686:C:H2'	1:C1:687:G:C8	1.77	1.17
29:D1:1441:G:C2'	29:D1:1442:U:H5"	1.75	1.17
29:D1:2987:A:H2'	29:D1:2988:C:C6	1.79	1.17
1:A1:1201:G:H2'	1:A1:1202:A:H4'	1.19	1.16
29:B1:3210:A:H3'	29:B1:3211:C:C6	1.78	1.16
29:B1:3300:U:H6	29:B1:3300:U:OP2	1.28	1.16
29:B1:3390:G:H2'	29:B1:3391:A:O4'	1.44	1.16
29:D1:618:C:H2'	29:D1:619:A:C8	1.79	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:750:G:N2	29:D1:784:A:H1'	1.58	1.16
1:A1:992:A:C2	1:A1:1012:U:N3	2.14	1.16
6:AE:80:LEU:HA	6:AE:81:VAL:CB	1.73	1.16
1:C1:827:C:N3	1:C1:846:G:O6	1.79	1.16
29:D1:715:A:C2	29:D1:784:A:H4'	1.79	1.16
1:A1:1204:A:H3'	1:A1:1205:C:H5"	1.20	1.16
29:B1:750:G:C2	29:B1:784:A:H1'	1.80	1.16
37:BF:41:ILE:N	37:BF:85:ILE:HA	1.61	1.16
1:C1:66:U:N3	1:C1:71:A:N6	1.93	1.16
1:C1:160:C:H2'	1:C1:161:U:O4'	1.43	1.16
29:D1:1186:G:H2'	29:D1:1187:C:H5'	1.18	1.16
29:D1:2684:C:H6	29:D1:2684:C:H5'	1.08	1.16
29:D1:3149:G:C2	29:D1:3150:A:H1'	1.79	1.16
29:D1:3390:G:H2'	29:D1:3391:A:O4'	1.44	1.16
29:B1:575:G:H8	29:B1:575:G:H5'	1.03	1.16
1:A1:1458:G:H5'	1:A1:1459:C:C5	1.81	1.16
29:B1:1212:A:H2'	29:B1:1213:G:H5"	1.17	1.16
37:BF:21:THR:HA	37:BF:111:LEU:C	1.68	1.16
1:C1:142:G:N7	1:C1:266:A:C6	2.14	1.16
1:C1:335:U:H3'	1:C1:336:G:C8	1.79	1.16
21:CT:289:ALA:HA	21:CT:305:TYR:HA	1.22	1.16
29:B1:3201:C:O2'	29:B1:3202:G:H5'	1.44	1.15
30:B2:12:U:H5'	30:B2:68:C:C1'	1.77	1.15
1:C1:1240:U:H2'	1:C1:1241:G:H5'	1.22	1.15
1:A1:1458:G:C5'	1:A1:1459:C:H5	1.59	1.15
1:C1:1631:A:H2'	1:C1:1632:C:O4'	1.46	1.15
29:D1:563:U:H3'	29:D1:564:G:C5'	1.74	1.15
29:D1:592:A:C4	29:D1:593:C:H1'	1.80	1.15
29:D1:3320:A:H2'	29:D1:3321:C:C6	1.79	1.15
29:B1:1839:A:H5"	29:B1:1840:U:OP1	1.45	1.15
29:B1:3391:A:H2'	29:B1:3392:U:H5"	1.18	1.15
1:A1:1273:G:C4'	1:A1:1274:C:H5'	1.77	1.15
29:B1:2611:U:H2'	29:B1:2612:U:C6	1.81	1.15
29:D1:1192:C:OP1	29:D1:1192:C:H3'	1.44	1.15
29:D1:3201:C:O2'	29:D1:3202:G:H5'	1.45	1.15
29:B1:515:C:H3'	29:B1:516:A:H5"	1.18	1.15
29:B1:951:A:H2'	29:B1:952:A:H5"	1.16	1.15
29:B1:3320:A:H2'	29:B1:3321:C:C6	1.82	1.15
1:C1:142:G:C5	1:C1:266:A:N6	2.14	1.15
29:D1:1212:A:H2'	29:D1:1213:G:H5"	1.20	1.15
46:DQ:10:ASN:N	46:DQ:11:PRO:HA	1.47	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:363:G:H2'	29:B1:364:G:H5"	1.29	1.14
29:B1:1415:U:H2'	29:B1:1416:C:C6	1.80	1.14
29:B1:3210:A:H3'	29:B1:3211:C:H6	1.04	1.14
29:D1:2277:C:H5"	29:D1:2317:A:H4'	1.28	1.14
29:D1:2690:G:N3	29:D1:2690:G:H2'	1.56	1.14
29:B1:591:G:C2'	29:B1:592:A:H5'	1.77	1.14
29:B1:2684:C:H6	29:B1:2684:C:C5'	1.58	1.14
1:C1:243:G:C6	1:C1:251:A:N6	2.14	1.14
29:D1:282:G:H21	29:D1:286:U:H4'	1.09	1.14
29:D1:1779:C:H4'	29:D1:1780:G:H5"	1.25	1.14
1:A1:329:G:H2'	1:A1:330:G:H8	0.99	1.14
1:A1:650:U:H2'	1:A1:651:G:H5"	1.30	1.14
21:AT:289:ALA:HA	21:AT:305:TYR:HA	1.20	1.14
29:D1:562:C:H2'	29:D1:563:U:C5	1.82	1.14
29:D1:606:C:H2'	29:D1:607:A:C1'	1.77	1.14
29:B1:118:U:O4	29:B1:150:A:N6	1.78	1.14
29:D1:3027:A:H2'	29:D1:3028:G:C8	1.83	1.14
29:B1:422:A:H1'	29:B1:423:A:C5'	1.79	1.13
29:B1:576:C:H2'	29:B1:577:C:H5"	1.29	1.13
29:B1:750:G:H2'	29:B1:751:A:H8	1.10	1.13
29:B1:2687:G:H3'	29:B1:2687:G:N3	1.62	1.13
1:C1:1201:G:H2'	1:C1:1202:A:H4'	1.16	1.13
29:B1:563:U:H3'	29:B1:564:G:C5'	1.79	1.13
29:B1:1482:A:H4'	29:B1:1483:G:OP2	1.45	1.13
29:B1:2779:A:H8	29:B1:2779:A:H5'	1.07	1.13
29:B1:3012:A:H2'	29:B1:3013:U:H5"	1.22	1.13
58:Bc:41:LEU:N	58:Bc:42:PRO:HA	1.63	1.13
1:C1:173:A:C5	1:C1:174:U:H6	1.66	1.13
1:C1:540:G:H1'	1:C1:541:A:OP1	1.48	1.13
1:A1:186:C:N4	1:A1:199:G:H1	1.45	1.13
1:A1:364:G:N2	1:A1:381:C:C2	2.17	1.13
29:B1:2684:C:H5'	29:B1:2684:C:H6	1.04	1.13
29:B1:3149:G:C2	29:B1:3150:A:H1'	1.83	1.13
29:D1:717:C:H41	29:D1:721:G:H5'	1.11	1.13
29:D1:829:U:H3	29:D1:895:A:N6	1.45	1.13
30:D2:25:G:C2	30:D2:26:C:C4	2.36	1.13
30:D2:68:C:O2	30:D2:69:C:H1'	1.49	1.13
6:CE:122:VAL:O	6:CE:125:ALA:HB3	1.49	1.12
46:DQ:10:ASN:H	46:DQ:11:PRO:CA	1.58	1.12
1:A1:509:G:H2'	1:A1:510:G:H8	1.12	1.12
15:AN:54:GLY:HA3	15:AN:92:ASP:H	1.11	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1154:A:H4'	29:B1:1155:C:OP2	1.49	1.12
1:C1:84:A:H2'	1:C1:85:A:H5'	1.25	1.12
1:C1:992:A:H2'	1:C1:993:A:H5'	1.27	1.12
29:D1:406:G:H1'	31:D3:16:G:N2	1.64	1.12
29:D1:1405:U:H5'	57:Db:58:GLY:HA2	1.29	1.12
29:D1:3149:G:N2	29:D1:3150:A:H1'	1.64	1.12
29:D1:3391:A:H2'	29:D1:3392:U:H5"	1.21	1.12
30:D2:63:A:H3'	30:D2:64:A:C5'	1.77	1.12
29:B1:383:G:H2'	29:B1:385:A:O5'	1.49	1.12
29:B1:3251:U:H2'	29:B1:3252:G:C8	1.85	1.12
29:D1:593:C:H2'	29:D1:594:U:H4'	1.17	1.12
29:D1:2636:A:H5"	29:D1:2637:A:H5'	1.32	1.12
37:DF:21:THR:N	37:DF:112:THR:HA	1.64	1.12
1:A1:402:C:H2'	1:A1:403:G:H5'	1.27	1.12
1:A1:1524:A:H2'	1:A1:1525:A:C8	1.84	1.12
29:B1:42:C:H2'	29:B1:43:A:C5'	1.80	1.12
29:B1:394:G:N2	29:B1:396:A:H2'	1.63	1.12
29:B1:3233:C:H2'	29:B1:3234:A:H8	1.07	1.12
1:C1:1348:A:C5'	15:CN:12:GLN:H	1.63	1.12
29:D1:2779:A:H8	29:D1:2779:A:H5'	1.07	1.12
1:A1:1780:G:H1'	29:B1:2262:A:O2'	1.48	1.12
29:B1:1558:A:OP1	29:B1:1559:A:H1'	1.49	1.12
29:B1:2643:A:H5'	29:B1:2644:C:OP2	1.48	1.12
30:B2:35:C:H42	30:B2:47:C:H1'	0.97	1.12
1:C1:978:A:N6	1:C1:1024:U:H3	1.47	1.12
1:C1:1141:G:H3'	1:C1:1142:A:H5"	1.32	1.12
37:DF:21:THR:HA	37:DF:111:LEU:C	1.74	1.12
1:A1:540:G:H1'	1:A1:541:A:OP1	1.49	1.11
29:B1:2523:A:H1'	29:B1:2524:A:C5'	1.79	1.11
30:B2:12:U:H5'	30:B2:68:C:H1'	1.14	1.11
29:D1:325:A:H3'	29:D1:327:A:P	1.90	1.11
29:D1:515:C:H3'	29:D1:516:A:H5"	1.16	1.11
29:D1:2107:A:H2'	29:D1:2108:C:H6	1.15	1.11
29:D1:2362:C:N4	29:D1:2376:G:O6	1.82	1.11
29:B1:10:C:N4	31:B3:148:G:H1	1.47	1.11
29:D1:334:A:H2'	29:D1:335:G:H8	1.15	1.11
29:D1:993:G:H21	29:D1:2637:A:H3'	1.11	1.11
1:A1:61:A:H4'	1:A1:62:A:O5'	1.44	1.11
1:A1:329:G:H2'	1:A1:330:G:C8	1.84	1.11
29:B1:606:C:H2'	29:B1:607:A:H1'	1.26	1.11
29:B1:611:A:H3'	29:B1:612:U:H5"	1.24	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:952:A:H2'	29:B1:953:G:H5"	1.22	1.11
29:B1:1323:G:H3'	29:B1:1324:U:H5"	1.27	1.11
29:B1:3117:C:H2'	29:B1:3118:C:H5'	1.29	1.11
29:B1:3190:C:N3	29:B1:3202:G:N2	1.98	1.11
29:D1:3251:U:H2'	29:D1:3252:G:C8	1.83	1.11
31:D3:40:A:H2'	31:D3:41:A:H8	1.02	1.11
15:AN:68:ARG:HA	15:AN:79:TRP:HA	1.13	1.11
29:B1:3027:A:H2'	29:B1:3028:G:C8	1.83	1.11
44:BO:185:ALA:C	44:BO:187:ARG:HA	1.73	1.11
29:D1:591:G:C2'	29:D1:592:A:H5'	1.80	1.11
29:D1:1196:C:C5	29:D1:1197:A:N7	2.17	1.11
29:D1:1415:U:H2'	29:D1:1416:C:H6	1.03	1.11
29:D1:2684:C:H5'	29:D1:2684:C:C6	1.85	1.11
1:A1:173:A:C5	1:A1:174:U:C6	2.37	1.11
29:B1:1232:C:H2'	29:B1:1233:G:H4'	1.26	1.11
29:B1:1901:A:O3'	29:B1:2918:G:H5'	1.49	1.11
29:B1:2271:A:H2'	29:B1:2272:G:H5"	1.30	1.11
29:D1:951:A:C2'	29:D1:952:A:H5"	1.80	1.11
29:D1:3150:A:H3'	29:D1:3151:U:H5'	1.32	1.11
1:A1:992:A:H2'	1:A1:993:A:H5'	1.32	1.10
1:A1:1631:A:C4	1:A1:1638:G:N2	2.19	1.10
29:D1:593:C:H2'	29:D1:594:U:C4'	1.79	1.10
29:D1:3219:G:C8	29:D1:3257:C:H5"	1.84	1.10
2:AA:186:GLY:HA2	2:AA:187:ALA:HB2	1.31	1.10
6:AE:122:VAL:O	6:AE:125:ALA:HB3	1.50	1.10
29:B1:282:G:N2	29:B1:286:U:H4'	1.67	1.10
29:B1:563:U:H3'	29:B1:564:G:H5"	1.29	1.10
29:B1:591:G:H2'	29:B1:592:A:H5'	1.26	1.10
29:B1:591:G:N2	29:B1:592:A:H1'	1.64	1.10
30:B2:25:G:C2	30:B2:26:C:C4	2.39	1.10
30:B2:63:A:H3'	30:B2:64:A:C5'	1.81	1.10
1:C1:650:U:H2'	1:C1:651:G:H5"	1.33	1.10
1:C1:992:A:C2	1:C1:1012:U:N3	2.19	1.10
15:CN:68:ARG:HA	15:CN:79:TRP:HA	1.13	1.10
29:D1:2271:A:C2'	29:D1:2272:G:H5"	1.81	1.10
29:D1:3382:U:H3'	29:D1:3383:G:H4'	1.15	1.10
1:A1:1141:G:H3'	1:A1:1142:A:H5"	1.34	1.10
1:A1:1573:A:H4'	1:A1:1574:G:H5'	1.18	1.10
29:B1:1697:A:H2'	29:B1:1698:C:H5'	1.32	1.10
29:B1:1779:C:H4'	29:B1:1780:G:H5"	1.28	1.10
29:B1:2684:C:H2'	29:B1:2685:C:H6	1.08	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:41:ILE:H	37:BF:85:ILE:CA	1.62	1.10
1:C1:1573:A:H4'	1:C1:1574:G:H5'	1.18	1.10
29:D1:421:G:C8	29:D1:421:G:H3'	1.87	1.10
29:D1:3117:C:H2'	29:D1:3118:C:H5'	1.28	1.10
29:D1:3233:C:H2'	29:D1:3234:A:H8	1.13	1.10
1:A1:322:G:H4'	1:A1:323:A:OP1	1.47	1.10
1:A1:1240:U:H2'	1:A1:1241:G:H5'	1.23	1.10
29:B1:2262:A:H3'	29:B1:2263:C:H5"	1.31	1.10
29:B1:2328:U:H2'	29:B1:2329:C:H5"	1.29	1.10
29:B1:2771:U:H3'	29:B1:2772:C:H5"	1.31	1.10
1:C1:887:A:H1'	9:CH:122:PRO:CB	1.82	1.10
1:A1:243:G:C2	1:A1:251:A:C2	2.38	1.10
29:B1:431:U:H2'	29:B1:432:G:H8	1.05	1.10
29:B1:2667:A:N6	29:B1:2690:G:N1	1.98	1.10
29:B1:2987:A:H2'	29:B1:2988:C:H6	1.14	1.10
1:C1:129:U:C5	1:C1:264:G:C6	2.40	1.10
1:C1:142:G:C5	1:C1:266:A:C6	2.40	1.10
1:C1:364:G:N2	1:C1:381:C:C2	2.18	1.10
1:C1:824:G:H4'	1:C1:825:U:H5'	1.26	1.10
1:C1:1045:C:O2	1:C1:1045:C:H2'	1.49	1.10
29:D1:3202:G:H3'	29:D1:3202:G:OP2	1.50	1.10
1:A1:243:G:C6	1:A1:251:A:N6	2.20	1.09
1:A1:416:A:H4'	1:A1:417:A:OP2	1.50	1.09
29:B1:592:A:N3	29:B1:593:C:C1'	2.15	1.09
29:B1:3242:G:H1	29:B1:3244:A:H2'	1.07	1.09
1:C1:65:A:H4'	1:C1:66:U:OP1	1.51	1.09
1:C1:243:G:C2	1:C1:251:A:N1	2.20	1.09
29:D1:383:G:H2'	29:D1:385:A:O5'	1.47	1.09
29:D1:576:C:H2'	29:D1:577:C:H5"	1.23	1.09
29:D1:3190:C:N3	29:D1:3202:G:N2	2.00	1.09
30:D2:35:C:H42	30:D2:47:C:H1'	1.02	1.09
44:DO:185:ALA:C	44:DO:187:ARG:HA	1.77	1.09
1:A1:629:U:H2'	1:A1:630:A:H8	1.06	1.09
29:B1:2250:G:N2	29:B1:2267:C:O2	1.82	1.09
29:B1:2277:C:H5"	29:B1:2317:A:H4'	1.33	1.09
37:BF:21:THR:N	37:BF:112:THR:HA	1.67	1.09
1:C1:629:U:H2'	1:C1:630:A:H8	1.12	1.09
29:D1:575:G:H5'	29:D1:575:G:H8	1.14	1.09
29:D1:2146:C:H2'	29:D1:2147:A:H5'	1.21	1.09
29:B1:966:U:H2'	29:B1:967:A:C8	1.87	1.09
29:B1:1303:A:H8	29:B1:1304:A:C5	1.70	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:68:C:O2	30:B2:69:C:H1'	1.52	1.09
1:C1:329:G:H2'	1:C1:330:G:H8	1.04	1.09
15:CN:54:GLY:HA3	15:CN:92:ASP:H	1.14	1.09
29:D1:537:A:N6	29:D1:556:U:N3	1.99	1.09
29:D1:563:U:H3'	29:D1:564:G:H5"	1.20	1.09
29:D1:618:C:H2'	29:D1:619:A:H8	0.93	1.09
29:D1:2523:A:H1'	29:D1:2524:A:C5'	1.82	1.09
29:D1:3300:U:OP2	29:D1:3300:U:H6	1.33	1.09
30:D2:10:C:O3'	30:D2:13:A:N7	1.84	1.09
1:A1:694:U:H5"	1:A1:695:U:C5	1.88	1.09
1:A1:1231:U:H1'	1:A1:1258:U:H4'	1.30	1.09
29:B1:1441:G:H2'	29:B1:1442:U:H5"	1.31	1.09
1:C1:416:A:H4'	1:C1:417:A:OP2	1.42	1.09
1:A1:243:G:N2	1:A1:251:A:C2	2.19	1.09
29:B1:716:A:H2'	29:B1:717:C:C4'	1.83	1.09
29:B1:2992:U:H2'	29:B1:2993:G:H5'	1.19	1.09
29:D1:72:C:H2'	29:D1:73:C:H5'	1.34	1.09
29:D1:431:U:H2'	29:D1:432:G:H8	1.15	1.09
29:D1:2250:G:N2	29:D1:2267:C:O2	1.86	1.09
1:A1:1219:A:H5'	1:A1:1220:C:H5	1.17	1.08
29:B1:716:A:C2'	29:B1:717:C:H4'	1.83	1.08
29:B1:2270:A:H5"	29:B1:2270:A:C8	1.87	1.08
29:D1:951:A:H2'	29:D1:952:A:C5'	1.81	1.08
29:D1:2385:G:H4'	29:D1:2386:A:OP1	1.48	1.08
29:D1:2687:G:H3'	29:D1:2687:G:N3	1.67	1.08
29:D1:2808:A:H4'	29:D1:2809:C:O5'	1.52	1.08
1:A1:243:G:N1	1:A1:251:A:C6	2.22	1.08
1:A1:824:G:H4'	1:A1:825:U:H5'	1.26	1.08
29:B1:2271:A:C2'	29:B1:2272:G:H5"	1.84	1.08
29:B1:2690:G:N3	29:B1:2690:G:H2'	1.62	1.08
1:C1:219:A:N6	1:C1:843:U:H1'	1.68	1.08
1:C1:1499:G:O6	1:C1:1508:U:O2	1.69	1.08
29:D1:42:C:H2'	29:D1:43:A:C5'	1.83	1.08
29:D1:606:C:H2'	29:D1:607:A:H1'	1.32	1.08
29:D1:1558:A:OP1	29:D1:1559:A:H1'	1.54	1.08
29:D1:2684:C:H6	29:D1:2684:C:C5'	1.67	1.08
29:B1:591:G:N2	29:B1:592:A:C1'	2.17	1.08
29:B1:592:A:C4	29:B1:593:C:C1'	2.37	1.08
29:B1:3150:A:H3'	29:B1:3151:U:H5'	1.31	1.08
30:B2:35:C:H42	30:B2:47:C:C1'	1.66	1.08
36:BE:97:ALA:HA	36:BE:100:ALA:HB3	1.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2151:C:H6	29:D1:2151:C:H5'	1.10	1.08
29:D1:2271:A:H2'	29:D1:2272:G:H5"	1.26	1.08
29:D1:2771:U:H3'	29:D1:2772:C:H5"	1.31	1.08
1:A1:1458:G:H5'	1:A1:1459:C:H5	1.00	1.08
29:B1:1479:U:C3'	29:B1:1480:G:H5"	1.81	1.08
31:B3:40:A:H2'	31:B3:41:A:C8	1.88	1.08
29:D1:611:A:H3'	29:D1:612:U:H5"	1.27	1.08
29:D1:1303:A:H2	29:D1:2887:A:N1	1.49	1.08
29:D1:1503:A:H3'	29:D1:1504:A:H5"	1.12	1.08
1:A1:65:A:H4'	1:A1:66:U:OP1	1.51	1.08
1:A1:1348:A:H5"	15:AN:12:GLN:H	1.11	1.08
29:B1:383:G:H3'	29:B1:384:A:H5"	1.34	1.08
29:B1:3382:U:H3'	29:B1:3383:G:H4'	1.17	1.08
1:C1:257:A:H2'	1:C1:258:C:H5'	1.36	1.08
1:C1:1097:U:O2'	1:C1:1098:U:H5'	1.54	1.08
29:D1:750:G:C2	29:D1:784:A:H1'	1.87	1.08
29:D1:1191:U:O2	29:D1:1191:U:H2'	1.51	1.08
29:D1:3321:C:O2'	29:D1:3322:A:H3'	1.54	1.08
21:AT:9:LEU:HA	21:AT:313:TRP:HA	1.33	1.07
29:B1:2213:A:H2'	29:B1:2214:A:C8	1.89	1.07
29:B1:2328:U:C2'	29:B1:2329:C:H5"	1.84	1.07
1:C1:1100:G:H4'	1:C1:1101:G:OP1	1.34	1.07
8:CG:51:GLY:HA2	8:CG:53:LEU:N	1.67	1.07
29:D1:592:A:C2'	29:D1:593:C:H4'	1.84	1.07
29:D1:1232:C:H4'	73:DM:35:SER:HA	1.34	1.07
29:D1:2523:A:H1'	29:D1:2524:A:H5'	1.15	1.07
29:D1:3210:A:H3'	29:D1:3211:C:H6	1.04	1.07
1:A1:173:A:C2	1:A1:174:U:H1'	1.89	1.07
1:A1:257:A:H2'	1:A1:258:C:H5'	1.32	1.07
24:Ac:7:UNK:HA	24:Ac:68:UNK:HA	1.28	1.07
29:B1:3392:U:N3	29:B1:3393:U:C4	2.22	1.07
1:C1:1231:U:H1'	1:C1:1258:U:H4'	1.32	1.07
20:CS:49:ASP:H	20:CS:50:ILE:HA	1.06	1.07
29:D1:432:G:H2'	29:D1:433:A:H8	1.11	1.07
29:D1:1441:G:H2'	29:D1:1442:U:H5"	1.33	1.07
29:D1:3099:C:O2'	29:D1:3100:U:O5'	1.72	1.07
29:D1:3101:G:C2'	29:D1:3102:G:H5"	1.84	1.07
29:D1:3232:G:N2	29:D1:3255:U:O2	1.85	1.07
30:D2:11:A:C2	36:DE:16:PHE:HA	1.89	1.07
30:D2:12:U:H5'	30:D2:68:C:H1'	1.09	1.07
29:B1:72:C:C2'	29:B1:73:C:H5'	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:517:G:H3'	29:B1:517:G:OP2	1.53	1.07
29:B1:524:U:H2'	29:B1:525:C:H6	1.19	1.07
29:B1:612:U:H1'	29:B1:613:G:C8	1.90	1.07
29:B1:1875:G:H2'	29:B1:1876:U:H5"	1.34	1.07
1:C1:1204:A:H3'	1:C1:1205:C:H5"	1.13	1.07
28:Ch:15:UNK:O	28:Ch:19:UNK:CB	2.03	1.07
29:D1:1062:A:H3'	29:D1:1063:G:N7	1.69	1.07
29:D1:1196:C:H5	29:D1:1197:A:N6	1.50	1.07
29:D1:1226:G:H2'	29:D1:1227:C:H6	1.20	1.07
29:D1:1479:U:C3'	29:D1:1480:G:H5"	1.82	1.07
29:D1:2754:G:H3'	29:D1:2755:C:H5'	1.35	1.07
1:A1:1100:G:H4'	1:A1:1101:G:OP1	1.34	1.07
1:A1:1631:A:H2'	1:A1:1632:C:O4'	1.52	1.07
29:B1:284:A:H2	29:B1:306:A:H1'	1.04	1.07
29:B1:618:C:H2'	29:B1:619:A:H8	0.92	1.07
29:B1:644:G:H4'	29:B1:1153:A:H2	0.93	1.07
29:B1:2146:C:H2'	29:B1:2147:A:H5'	1.35	1.07
31:B3:19:C:H2'	31:B3:20:U:H6	1.19	1.07
1:C1:142:G:O6	1:C1:266:A:N7	1.88	1.07
1:C1:509:G:H2'	1:C1:510:G:H8	1.19	1.07
21:CT:9:LEU:HA	21:CT:313:TRP:HA	1.36	1.07
29:D1:10:C:N4	31:D3:148:G:H1	1.53	1.07
29:D1:511:G:N2	29:D1:579:G:C2	2.23	1.07
29:B1:3149:G:N2	29:B1:3150:A:H1'	1.68	1.07
1:C1:329:G:H2'	1:C1:330:G:C8	1.88	1.07
1:C1:1724:U:H2'	1:C1:1725:U:H5	1.18	1.07
29:D1:1192:C:H3'	29:D1:1192:C:P	1.95	1.07
29:D1:2987:A:H2'	29:D1:2988:C:H6	1.00	1.07
29:D1:3151:U:P	29:D1:3152:U:OP1	2.13	1.07
29:D1:3195:U:H2'	29:D1:3196:U:O2	1.53	1.07
1:A1:827:C:N3	1:A1:846:G:O6	1.88	1.06
1:A1:1045:C:O2	1:A1:1045:C:H2'	1.55	1.06
1:A1:1273:G:H4'	1:A1:1274:C:C5'	1.83	1.06
20:AS:49:ASP:H	20:AS:50:ILE:CA	1.67	1.06
29:B1:282:G:H21	29:B1:286:U:H4'	0.91	1.06
29:B1:1435:A:H5'	29:B1:1436:U:H5"	1.35	1.06
29:B1:1879:A:O2'	29:B1:1880:U:H4'	1.55	1.06
29:B1:3090:U:C6	29:B1:3090:U:H5"	1.89	1.06
29:D1:531:G:H2'	29:D1:532:A:C8	1.89	1.06
29:D1:952:A:H2'	29:D1:953:G:H5"	1.33	1.06
29:D1:3261:C:H2'	29:D1:3261:C:O2	1.46	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2808:A:H4'	29:B1:2809:C:O5'	1.55	1.06
1:C1:743:U:C4	1:C1:809:A:C2	2.43	1.06
1:C1:1204:A:H3'	1:C1:1205:C:C5'	1.84	1.06
29:D1:3012:A:H2'	29:D1:3013:U:H5"	1.30	1.06
29:D1:3242:G:H1	29:D1:3244:A:H2'	1.06	1.06
17:AP:109:ARG:N	17:AP:110:LYS:HA	1.70	1.06
29:B1:334:A:H2'	29:B1:335:G:H8	1.16	1.06
29:B1:847:A:H2'	29:B1:848:A:C8	1.91	1.06
1:C1:44:U:H5'	1:C1:45:U:C5	1.91	1.06
1:C1:1273:G:H4'	1:C1:1274:C:H5'	1.09	1.06
1:C1:1273:G:C4'	1:C1:1274:C:H5'	1.84	1.06
29:D1:409:A:H61	31:D3:15:G:H1'	1.20	1.06
29:D1:591:G:H2'	29:D1:592:A:H5'	1.36	1.06
29:D1:2667:A:N6	29:D1:2690:G:N1	2.03	1.06
29:D1:3314:A:H2'	34:DC:119:TYR:N	1.71	1.06
1:A1:827:C:H2'	1:A1:828:U:C2	1.90	1.06
1:A1:1525:A:H2'	1:A1:1526:A:C8	1.89	1.06
29:B1:3321:C:O2'	29:B1:3322:A:H3'	1.55	1.06
30:B2:10:C:O3'	30:B2:13:A:N7	1.89	1.06
29:D1:65:A:H4'	29:D1:66:A:O5'	1.53	1.06
29:D1:1062:A:H3'	29:D1:1063:G:C5	1.91	1.06
29:D1:3055:U:H2'	29:D1:3085:G:H1	1.19	1.06
20:AS:49:ASP:H	20:AS:50:ILE:HA	1.07	1.06
29:B1:72:C:H2'	29:B1:73:C:H5'	1.31	1.06
29:B1:1415:U:H2'	29:B1:1416:C:H6	0.90	1.06
29:B1:2107:A:H2'	29:B1:2108:C:H6	1.14	1.06
1:C1:402:C:H2'	1:C1:403:G:H5'	1.06	1.06
29:D1:3122:A:H2'	29:D1:3123:A:H5"	1.06	1.06
1:A1:686:C:H2'	1:A1:687:G:H8	1.12	1.05
29:B1:14:U:H4'	29:B1:15:C:OP2	1.55	1.05
29:B1:2390:A:H4'	29:B1:3307:A:C2	1.90	1.05
29:D1:394:G:N2	29:D1:396:A:H2'	1.68	1.05
29:B1:743:C:H2'	29:B1:744:A:H5'	1.05	1.05
29:B1:811:U:H2'	29:B1:812:G:H8	1.22	1.05
29:B1:1056:U:H2'	29:B1:1057:A:O4'	1.56	1.05
29:B1:1196:C:H5	29:B1:1197:A:N6	1.54	1.05
29:B1:2111:G:N2	51:BV:49:ILE:HA	1.71	1.05
1:C1:827:C:C2	1:C1:846:G:O6	2.08	1.05
29:D1:72:C:C2'	29:D1:73:C:H5'	1.86	1.05
29:D1:363:G:H2'	29:D1:364:G:H5"	1.38	1.05
29:D1:560:G:O2'	29:D1:561:C:H5'	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1626:U:H4'	29:D1:1626:U:OP1	1.56	1.05
29:D1:2353:G:C6	29:D1:2354:C:H5	1.73	1.05
31:D3:19:C:H2'	31:D3:20:U:H6	1.18	1.05
1:A1:173:A:C6	1:A1:174:U:C6	2.44	1.05
1:A1:250:C:OP2	1:A1:250:C:H3'	1.56	1.05
1:A1:1281:G:H2'	1:A1:1282:U:C6	1.92	1.05
29:B1:610:G:H3'	29:B1:610:G:N3	1.70	1.05
29:B1:1495:U:H5"	29:B1:1496:C:H5	1.20	1.05
29:D1:743:C:H2'	29:D1:744:A:H5'	1.05	1.05
31:D3:40:A:H2'	31:D3:41:A:C8	1.90	1.05
62:Dg:36:ARG:HA	62:Dg:37:TYR:CB	1.86	1.05
1:A1:1141:G:C3'	1:A1:1142:A:H5"	1.85	1.05
29:B1:776:U:H5'	29:B1:777:U:H5"	1.34	1.05
29:B1:3144:G:H4'	29:B1:3145:C:OP2	1.27	1.05
29:B1:3327:G:C4	29:B1:3328:G:N7	2.23	1.05
29:B1:3342:A:N6	29:B1:3363:U:C4	2.25	1.05
30:B2:74:C:H2'	30:B2:75:G:H5'	1.06	1.05
1:C1:173:A:C5	1:C1:174:U:C6	2.40	1.05
29:D1:340:C:H2'	29:D1:341:G:C8	1.92	1.05
29:D1:383:G:H3'	29:D1:384:A:H5"	1.34	1.05
29:D1:725:G:H2'	29:D1:726:G:H5"	1.37	1.05
30:D2:74:C:C2'	30:D2:75:G:H5'	1.87	1.05
29:B1:537:A:N6	29:B1:556:U:N3	2.04	1.05
29:B1:811:U:H2'	29:B1:812:G:C8	1.92	1.05
29:B1:1439:U:H2'	29:B1:1440:G:H8	1.22	1.05
29:B1:2754:G:H3'	29:B1:2755:C:C5'	1.87	1.05
29:B1:3122:A:C2'	29:B1:3123:A:H5"	1.84	1.05
29:B1:3334:U:H5'	29:B1:3371:G:N2	1.71	1.05
30:B2:11:A:H8	30:B2:13:A:O2'	1.39	1.05
1:C1:1458:G:C5'	1:C1:1459:C:H5	1.70	1.05
2:CA:186:GLY:HA2	2:CA:187:ALA:HB2	1.33	1.05
29:D1:937:G:H22	29:D1:960:U:H5'	1.15	1.05
30:D2:25:G:C6	30:D2:26:C:N4	2.24	1.05
1:A1:113:U:H5"	1:A1:114:C:H5'	1.36	1.04
1:A1:1347:U:H5'	15:AN:10:GLU:HA	1.38	1.04
29:B1:716:A:H2'	29:B1:717:C:H4'	1.38	1.04
29:B1:776:U:C5'	29:B1:777:U:H5"	1.86	1.04
29:B1:2161:G:H5"	29:B1:2162:U:OP2	1.55	1.04
29:B1:3101:G:C2'	29:B1:3102:G:H5"	1.86	1.04
1:C1:173:A:C2	1:C1:174:U:C1'	2.39	1.04
1:C1:1240:U:C2'	1:C1:1241:G:H5'	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:716:A:H2'	29:D1:717:C:C4'	1.86	1.04
1:A1:1604:U:H3'	1:A1:1605:G:H5"	1.39	1.04
29:B1:1796:G:H5"	29:B1:1797:A:OP1	1.55	1.04
29:B1:3195:U:H2'	29:B1:3196:U:O2	1.58	1.04
29:B1:3261:C:H2'	29:B1:3261:C:O2	1.48	1.04
30:B2:46:A:H3'	30:B2:46:A:N3	1.70	1.04
1:C1:1273:G:H4'	1:C1:1274:C:C5'	1.88	1.04
1:C1:1420:C:C5	1:C1:1421:A:H8	1.74	1.04
20:CS:49:ASP:H	20:CS:50:ILE:CA	1.70	1.04
29:D1:642:U:H4'	29:D1:1116:G:O6	1.57	1.04
29:D1:644:G:C4'	29:D1:1153:A:H2	1.69	1.04
29:D1:776:U:C5'	29:D1:777:U:H5"	1.88	1.04
29:D1:1056:U:H2'	29:D1:1057:A:O4'	1.56	1.04
29:D1:3090:U:H5"	29:D1:3090:U:C6	1.93	1.04
29:B1:81:C:O2'	29:B1:82:C:H5'	1.56	1.04
29:B1:515:C:C3'	29:B1:516:A:H5"	1.87	1.04
29:B1:575:G:H5'	29:B1:575:G:C8	1.93	1.04
29:B1:2148:U:H4'	29:B1:2149:A:OP1	1.51	1.04
29:B1:2523:A:H1'	29:B1:2524:A:H5'	1.08	1.04
1:C1:264:G:H3'	1:C1:265:A:H5'	1.40	1.04
29:D1:208:C:H2'	29:D1:209:A:H5'	1.34	1.04
29:D1:517:G:OP2	29:D1:517:G:H3'	1.57	1.04
29:D1:811:U:H2'	29:D1:812:G:C8	1.93	1.04
29:D1:1696:A:H2'	29:D1:1697:A:C8	1.92	1.04
29:D1:2270:A:H5"	29:D1:2270:A:C8	1.92	1.04
29:D1:2684:C:H2'	29:D1:2685:C:H6	1.13	1.04
29:B1:773:G:O2'	29:B1:774:G:H8	1.38	1.04
29:B1:1062:A:H3'	29:B1:1063:G:C5	1.93	1.04
29:B1:2326:A:H5"	29:B1:2327:U:OP2	1.57	1.04
1:C1:509:G:H2'	1:C1:510:G:C8	1.92	1.04
1:C1:1196:A:H4'	1:C1:1197:C:H5"	1.39	1.04
29:D1:384:A:H3'	29:D1:385:A:H8	1.19	1.04
29:D1:773:G:O2'	29:D1:774:G:H8	1.39	1.04
29:D1:1435:A:H5'	29:D1:1436:U:H5"	1.37	1.04
29:D1:1495:U:C2	29:D1:1842:A:H2	1.73	1.04
29:D1:3047:U:O2'	29:D1:3048:A:H5"	1.55	1.04
29:D1:3327:G:C4	29:D1:3328:G:N7	2.25	1.04
44:DO:39:ALA:H	44:DO:62:TYR:HA	1.22	1.04
58:Dc:41:LEU:N	58:Dc:42:PRO:HA	1.69	1.04
29:B1:421:G:C8	29:B1:421:G:H3'	1.92	1.04
29:B1:1879:A:H3'	29:B1:1879:A:OP2	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Bg:36:ARG:HA	62:Bg:37:TYR:CB	1.84	1.04
1:C1:700:C:H2'	1:C1:701:U:C6	1.91	1.04
16:CO:54:ASP:HA	16:CO:59:GLY:HA2	1.40	1.04
29:D1:575:G:H2'	29:D1:576:C:C6	1.93	1.04
29:D1:715:A:H2	29:D1:784:A:H4'	0.89	1.04
29:D1:1100:U:H2'	29:D1:1101:G:H8	1.23	1.04
29:D1:2148:U:H4'	29:D1:2149:A:OP1	1.53	1.04
29:D1:2328:U:C2'	29:D1:2329:C:H5"	1.88	1.04
29:D1:2992:U:H2'	29:D1:2993:G:H5'	1.08	1.04
34:DC:154:TYR:H	34:DC:155:ALA:HB2	1.22	1.04
1:A1:989:U:H2'	1:A1:990:C:C6	1.93	1.03
29:B1:937:G:H22	29:B1:960:U:H5'	1.19	1.03
41:BJ:161:GLY:HA2	41:BJ:162:GLN:CB	1.88	1.03
1:C1:364:G:N2	1:C1:381:C:N1	2.06	1.03
1:C1:1347:U:H5'	15:CN:10:GLU:HA	1.39	1.03
29:D1:588:G:H4'	29:D1:589:A:N7	1.70	1.03
29:D1:592:A:H2'	29:D1:593:C:H4'	1.38	1.03
29:D1:3242:G:H1'	29:D1:3246:G:H22	1.21	1.03
30:D2:63:A:C3'	30:D2:64:A:H5"	1.87	1.03
39:DH:194:THR:CB	39:DH:195:SER:HA	1.86	1.03
1:A1:887:A:H1'	9:AH:122:PRO:CB	1.87	1.03
29:B1:1079:A:H2'	29:B1:1080:A:C8	1.92	1.03
29:B1:3151:U:P	29:B1:3152:U:OP1	2.16	1.03
1:C1:1458:G:H5'	1:C1:1459:C:H5	1.22	1.03
29:D1:1065:A:H3'	29:D1:1065:A:N3	1.73	1.03
29:D1:2262:A:H3'	29:D1:2263:C:H5"	1.37	1.03
29:D1:2390:A:H4'	29:D1:3307:A:C2	1.93	1.03
46:DQ:76:PHE:HA	46:DQ:78:VAL:H	1.16	1.03
1:A1:1376:C:H2'	1:A1:1377:U:H5	1.21	1.03
8:AG:51:GLY:HA2	8:AG:53:LEU:N	1.72	1.03
17:AP:109:ARG:H	17:AP:110:LYS:HA	1.19	1.03
29:B1:716:A:C3'	29:B1:717:C:H4'	1.88	1.03
29:B1:1192:C:H3'	29:B1:1192:C:P	1.98	1.03
1:C1:97:C:H1'	1:C1:426:G:H5'	1.40	1.03
1:C1:1255:G:H4'	1:C1:1256:A:OP1	1.57	1.03
29:D1:515:C:C3'	29:D1:516:A:H5"	1.87	1.03
29:D1:3047:U:C2	29:D1:3048:A:C2	2.46	1.03
29:D1:3387:U:H2'	29:D1:3388:C:C5	1.92	1.03
1:A1:1499:G:O6	1:A1:1508:U:O2	1.74	1.03
29:B1:65:A:H4'	29:B1:66:A:O5'	1.57	1.03
29:B1:596:C:H3'	29:B1:597:G:H5"	1.41	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:750:G:H2'	29:B1:751:A:C8	1.94	1.03
29:B1:1212:A:C2'	29:B1:1213:G:H5"	1.88	1.03
29:B1:1399:A:H4'	29:B1:1399:A:OP2	1.58	1.03
29:B1:3262:U:OP2	29:B1:3262:U:C6	2.11	1.03
1:C1:978:A:N6	1:C1:1024:U:N3	2.03	1.03
1:C1:1649:G:H2'	1:C1:1650:U:C6	1.93	1.03
29:D1:524:U:H2'	29:D1:525:C:H6	1.24	1.03
29:D1:716:A:C2'	29:D1:717:C:H4'	1.87	1.03
29:D1:3144:G:H4'	29:D1:3145:C:OP2	1.22	1.03
29:D1:3392:U:N3	29:D1:3393:U:C4	2.25	1.03
30:D2:46:A:N3	30:D2:46:A:H3'	1.73	1.03
1:A1:26:A:H2'	1:A1:27:U:C6	1.94	1.03
1:A1:1204:A:H3'	1:A1:1205:C:C5'	1.89	1.03
29:B1:208:C:H2'	29:B1:209:A:H5'	1.41	1.03
29:B1:363:G:C2'	29:B1:364:G:H5"	1.88	1.03
29:B1:726:G:C6	29:B1:727:G:N1	2.27	1.03
29:B1:829:U:H4'	29:B1:866:A:H2	1.20	1.03
29:B1:3201:C:OP1	29:B1:3201:C:H6	1.42	1.03
1:C1:1724:U:H2'	1:C1:1725:U:C5	1.94	1.03
29:D1:1839:A:H5"	29:D1:1840:U:OP1	1.57	1.03
29:D1:2636:A:H5"	29:D1:2637:A:C5'	1.89	1.03
29:D1:3140:G:H8	29:D1:3140:G:H5"	1.17	1.03
1:A1:448:C:H2'	1:A1:449:C:H6	1.05	1.02
1:C1:249:U:H3'	1:C1:250:C:H5'	1.40	1.02
1:C1:1480:G:H8	1:C1:1480:G:H5'	1.19	1.02
29:D1:284:A:H2	29:D1:306:A:H1'	1.00	1.02
29:D1:511:G:N2	29:D1:580:C:C4	2.27	1.02
29:D1:584:G:H2'	29:D1:585:A:H8	1.22	1.02
29:D1:591:G:N2	29:D1:592:A:H1'	1.73	1.02
29:D1:716:A:H2'	29:D1:717:C:H4'	1.41	1.02
29:D1:829:U:H4'	29:D1:866:A:H2	1.21	1.02
29:D1:943:U:H3'	54:DY:10:LYS:HA	1.37	1.02
29:D1:3218:A:O2'	29:D1:3219:G:H3'	1.58	1.02
1:A1:25:C:N4	1:A1:367:A:H1'	1.73	1.02
1:A1:335:U:H3'	1:A1:336:G:C8	1.94	1.02
1:A1:520:A:H2'	1:A1:521:A:H8	1.23	1.02
1:A1:1542:G:H22	1:A1:1568:C:H2'	1.23	1.02
29:B1:1062:A:H3'	29:B1:1063:G:N7	1.73	1.02
29:B1:2385:G:H4'	29:B1:2386:A:OP1	1.57	1.02
29:B1:3202:G:H3'	29:B1:3202:G:OP2	1.58	1.02
29:B1:3307:A:H8	29:B1:3307:A:O5'	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:39:ALA:H	44:BO:62:TYR:HA	1.19	1.02
1:C1:172:C:O2'	1:C1:173:A:H5"	1.56	1.02
1:C1:520:A:H2'	1:C1:521:A:H8	1.20	1.02
29:D1:659:G:H2'	29:D1:660:A:C8	1.95	1.02
29:D1:716:A:C3'	29:D1:717:C:H4'	1.88	1.02
29:D1:3090:U:H5"	29:D1:3090:U:H6	1.21	1.02
1:A1:142:G:N2	1:A1:173:A:N1	2.07	1.02
1:A1:1097:U:O2'	1:A1:1098:U:H5'	1.55	1.02
1:A1:1752:U:H2'	1:A1:1753:A:C8	1.93	1.02
29:B1:431:U:H2'	29:B1:432:G:C8	1.93	1.02
29:B1:1653:G:H2'	29:B1:1654:A:H5'	1.41	1.02
30:B2:12:U:C3'	30:B2:13:A:H2	1.72	1.02
30:B2:64:A:N1	30:B2:111:U:O4	1.93	1.02
1:C1:402:C:C2'	1:C1:403:G:H5'	1.90	1.02
1:C1:1073:G:O6	1:C1:1074:G:C6	2.12	1.02
29:D1:14:U:H4'	29:D1:15:C:OP2	1.54	1.02
29:D1:106:A:H2'	29:D1:107:A:C8	1.94	1.02
29:D1:523:A:H2'	29:D1:524:U:H5'	1.41	1.02
29:D1:596:C:H3'	29:D1:596:C:O2	1.59	1.02
29:D1:1186:G:H2'	29:D1:1187:C:C5'	1.88	1.02
29:D1:2213:A:H2'	29:D1:2214:A:C8	1.95	1.02
47:DR:117:ALA:HB3	47:DR:118:GLY:HA2	1.41	1.02
1:A1:1240:U:C2'	1:A1:1241:G:H5'	1.90	1.02
29:B1:384:A:H8	29:B1:384:A:O5'	1.42	1.02
29:B1:2554:A:N1	33:BB:86:GLN:HA	1.75	1.02
29:B1:2797:C:H3'	29:B1:2798:C:H5'	1.41	1.02
29:B1:3342:A:N6	29:B1:3363:U:N3	1.94	1.02
29:D1:3172:A:H1'	29:D1:3173:G:C8	1.95	1.02
29:D1:3377:G:O2'	29:D1:3378:C:OP1	1.77	1.02
42:DK:50:ALA:HB3	42:DK:63:GLU:H	1.24	1.02
1:A1:1542:G:N2	1:A1:1568:C:H2'	1.74	1.02
29:B1:421:G:N2	29:B1:2365:C:H1'	1.74	1.02
29:B1:1065:A:H3'	29:B1:1065:A:N3	1.73	1.02
29:B1:3342:A:N6	29:B1:3363:U:O4	1.91	1.02
30:B2:25:G:C6	30:B2:26:C:N4	2.27	1.02
30:B2:35:C:N4	30:B2:47:C:H1'	1.74	1.02
1:C1:1542:G:N2	1:C1:1568:C:H2'	1.74	1.02
29:D1:106:A:H2'	29:D1:107:A:H8	1.24	1.02
29:D1:1482:A:H4'	29:D1:1483:G:OP2	1.57	1.02
29:D1:3101:G:H2'	29:D1:3102:G:H5"	1.39	1.02
29:B1:511:G:N2	29:B1:579:G:C2	2.28	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1100:U:H2'	29:B1:1101:G:H8	1.24	1.01
29:B1:2656:A:H4'	29:B1:2657:A:OP1	1.56	1.01
29:B1:3121:U:O2	29:B1:3122:A:C8	2.13	1.01
1:C1:1378:U:O5'	1:C1:1379:C:H5"	1.59	1.01
5:CD:153:GLY:HA3	5:CD:154:ALA:HB3	1.42	1.01
17:CP:109:ARG:N	17:CP:110:LYS:HA	1.75	1.01
24:Cc:31:UNK:O	24:Cc:35:UNK:CB	2.08	1.01
29:D1:43:A:N6	29:D1:2802:A:H2	1.57	1.01
29:D1:516:A:C3'	29:D1:517:G:C8	2.43	1.01
29:D1:784:A:H2'	29:D1:785:G:C8	1.96	1.01
30:D2:74:C:H2'	30:D2:75:G:H5'	1.04	1.01
1:A1:1365:C:H2'	1:A1:1366:U:O4'	1.60	1.01
29:B1:43:A:N6	29:B1:2802:A:H2	1.57	1.01
29:B1:106:A:H2'	29:B1:107:A:H8	1.23	1.01
29:B1:2673:A:N6	29:B1:2681:U:C4	2.28	1.01
29:B1:3099:C:O2'	29:B1:3100:U:O5'	1.77	1.01
1:C1:61:A:O5'	1:C1:62:A:H5'	1.61	1.01
1:C1:686:C:H2'	1:C1:687:G:H8	1.08	1.01
29:D1:3342:A:N6	29:D1:3363:U:N3	1.98	1.01
36:DE:272:TYR:H	36:DE:273:ARG:HA	1.22	1.01
40:DI:63:LYS:HA	40:DI:66:ALA:HB3	1.42	1.01
1:A1:129:U:C5	1:A1:264:G:C6	2.49	1.01
1:A1:199:G:HO2'	1:A1:200:A:H8	1.05	1.01
1:A1:1099:U:OP1	1:A1:1099:U:H4'	1.58	1.01
29:B1:325:A:H3'	29:B1:327:A:P	2.01	1.01
29:B1:963:G:H8	29:B1:963:G:H5'	1.25	1.01
29:B1:993:G:H21	29:B1:2637:A:H3'	1.20	1.01
29:B1:1503:A:C3'	29:B1:1504:A:H5"	1.89	1.01
29:B1:1628:C:O2'	29:B1:1630:U:H5'	1.60	1.01
29:B1:2684:C:H2'	29:B1:2685:C:C6	1.95	1.01
1:C1:402:C:O2	1:C1:403:G:H4'	1.59	1.01
1:C1:1141:G:C3'	1:C1:1142:A:H5"	1.85	1.01
1:C1:1525:A:H2'	1:C1:1526:A:C8	1.96	1.01
18:CQ:57:TYR:CB	18:CQ:58:ARG:HA	1.90	1.01
29:D1:726:G:C6	29:D1:727:G:N1	2.29	1.01
29:D1:1415:U:H2'	29:D1:1416:C:C6	1.94	1.01
29:D1:1481:A:O2'	29:D1:1858:A:H2'	1.60	1.01
29:D1:3262:U:OP2	29:D1:3262:U:C6	2.13	1.01
30:D2:13:A:H5'	30:D2:112:G:H1'	1.37	1.01
1:A1:364:G:N2	1:A1:381:C:N1	2.07	1.01
1:A1:1255:G:H4'	1:A1:1256:A:OP1	1.56	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1377:U:H2'	1:A1:1378:U:H4'	1.41	1.01
29:B1:124:U:H2'	29:B1:125:C:O4'	1.61	1.01
29:B1:264:G:C6	29:B1:265:A:C6	2.49	1.01
29:B1:1218:U:H2'	29:B1:1219:C:H5'	1.40	1.01
29:B1:1378:U:H2'	29:B1:1379:G:C8	1.95	1.01
29:B1:1405:U:H5'	57:Bb:58:GLY:HA2	1.39	1.01
29:B1:2777:G:H2'	29:B1:2777:G:N3	1.71	1.01
29:B1:3055:U:H2'	29:B1:3085:G:H1	1.25	1.01
30:B2:9:C:H2'	30:B2:13:A:H62	1.21	1.01
34:BC:51:ALA:HB3	34:BC:78:VAL:O	1.60	1.01
1:C1:1110:G:H8	1:C1:1110:G:H5'	1.25	1.01
1:C1:1362:U:H3'	1:C1:1363:U:O4'	1.58	1.01
29:D1:1879:A:O2'	29:D1:1880:U:H4'	1.59	1.01
29:D1:3274:A:C8	29:D1:3275:U:H2'	1.95	1.01
46:DQ:112:LEU:HA	46:DQ:151:THR:O	1.58	1.01
1:A1:1110:G:H8	1:A1:1110:G:H5'	1.22	1.01
1:A1:1281:G:H2'	1:A1:1282:U:H6	1.19	1.01
7:AF:122:ILE:H	7:AF:144:ALA:HB3	1.24	1.01
29:B1:209:A:O2'	29:B1:210:U:C2	2.13	1.01
29:B1:955:U:H2'	29:B1:956:U:C6	1.96	1.01
29:B1:1503:A:H3'	29:B1:1504:A:H5"	1.01	1.01
29:B1:3242:G:H1'	29:B1:3246:G:H22	1.22	1.01
1:C1:322:G:H4'	1:C1:323:A:OP1	1.57	1.01
1:C1:1197:C:OP1	1:C1:1197:C:H4'	1.59	1.01
1:C1:1604:U:H3'	1:C1:1605:G:H5"	1.42	1.01
1:C1:1752:U:H2'	1:C1:1753:A:H8	1.26	1.01
29:D1:776:U:H5'	29:D1:777:U:H5"	1.37	1.01
29:D1:1647:A:H2'	29:D1:1648:A:H5'	1.42	1.01
29:D1:2817:A:H4'	29:D1:2818:U:OP2	1.58	1.01
1:A1:127:G:C6	1:A1:179:A:C5	2.44	1.00
1:A1:609:U:H5"	1:A1:610:G:C5	1.95	1.00
1:A1:1200:G:H4'	1:A1:1201:G:OP2	1.62	1.00
1:A1:1362:U:H3'	1:A1:1363:U:O4'	1.61	1.00
20:AS:49:ASP:N	20:AS:50:ILE:HA	1.70	1.00
29:B1:284:A:H2	29:B1:306:A:C1'	1.72	1.00
29:B1:743:C:C2'	29:B1:744:A:H5'	1.91	1.00
29:B1:761:A:N1	29:B1:770:G:N2	2.07	1.00
29:B1:1191:U:O2	29:B1:1191:U:H2'	1.61	1.00
29:B1:2353:G:C5	29:B1:2354:C:H5	1.78	1.00
29:B1:3028:G:N2	29:B1:3029:A:N3	2.09	1.00
37:BF:41:ILE:H	37:BF:85:ILE:HA	0.87	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:194:THR:CB	39:BH:195:SER:HA	1.89	1.00
1:C1:151:G:H1	1:C1:163:G:H22	1.05	1.00
1:C1:1365:C:H2'	1:C1:1366:U:O4'	1.61	1.00
29:D1:124:U:H2'	29:D1:125:C:O4'	1.61	1.00
29:D1:592:A:H2'	29:D1:593:C:C4'	1.90	1.00
29:D1:722:G:N2	29:D1:748:U:O2	1.93	1.00
29:D1:1212:A:C2'	29:D1:1213:G:H5"	1.90	1.00
29:D1:1947:G:H5"	29:D1:1948:G:OP2	1.60	1.00
29:D1:2131:A:H2'	29:D1:2132:C:H5"	1.40	1.00
29:D1:2779:A:H5'	29:D1:2779:A:C8	1.96	1.00
31:D3:76:C:H4'	31:D3:77:A:OP1	1.56	1.00
1:A1:1420:C:H5	1:A1:1421:A:H8	1.05	1.00
1:A1:1764:C:OP1	1:A1:1771:U:H4'	1.60	1.00
29:B1:257:U:H2'	29:B1:258:G:C8	1.95	1.00
29:B1:2393:G:C6	29:B1:2982:A:C2	2.48	1.00
29:B1:3122:A:H2'	29:B1:3123:A:H5"	1.01	1.00
29:B1:3171:U:H1'	29:B1:3172:A:OP2	1.61	1.00
29:B1:3172:A:H1'	29:B1:3173:G:C8	1.95	1.00
56:Ba:9:THR:HA	56:Ba:76:SER:HA	1.40	1.00
29:D1:422:A:H1'	29:D1:423:A:H5"	1.38	1.00
29:D1:880:G:C8	29:D1:882:A:C8	2.50	1.00
30:D2:11:A:H8	30:D2:13:A:O2'	1.43	1.00
1:A1:243:G:N1	1:A1:250:C:N3	2.08	1.00
1:A1:1753:A:H3'	1:A1:1754:A:H5"	1.39	1.00
29:B1:106:A:H2'	29:B1:107:A:C8	1.96	1.00
29:B1:775:A:O3'	29:B1:776:U:H4'	1.60	1.00
29:B1:2817:A:H4'	29:B1:2818:U:OP2	1.57	1.00
29:B1:3367:C:O2'	29:B1:3368:U:H5"	1.60	1.00
31:B3:65:A:H2'	31:B3:66:A:H8	1.23	1.00
31:B3:69:U:C3'	31:B3:70:G:H4'	1.91	1.00
1:C1:264:G:H3'	1:C1:265:A:C5'	1.91	1.00
1:C1:827:C:C4	1:C1:846:G:O6	2.13	1.00
29:D1:610:G:H3'	29:D1:610:G:N3	1.76	1.00
29:D1:1495:U:H5"	29:D1:1496:C:H5	1.22	1.00
29:D1:3144:G:C4'	29:D1:3145:C:OP2	2.09	1.00
1:A1:1560:U:O2	1:A1:1560:U:H2'	1.60	1.00
29:B1:405:U:H5	29:B1:406:G:C5	1.78	1.00
29:B1:642:U:H4'	29:B1:1116:G:O6	1.62	1.00
29:B1:2987:A:H2'	29:B1:2988:C:C6	1.95	1.00
30:B2:74:C:C2'	30:B2:75:G:H5'	1.91	1.00
1:C1:127:G:C6	1:C1:179:A:C5	2.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3303:G:H4'	29:D1:3304:U:OP1	1.61	1.00
29:D1:3342:A:N6	29:D1:3363:U:O4	1.94	1.00
1:A1:1634:C:H4'	1:A1:1635:A:O5'	1.57	1.00
29:B1:2728:G:H2'	29:B1:2728:G:N3	1.77	1.00
29:B1:3060:C:H1'	29:B1:3331:U:H1'	1.43	1.00
1:C1:25:C:N4	1:C1:367:A:H1'	1.75	1.00
29:D1:1667:A:H2'	29:D1:1668:G:C8	1.95	1.00
29:D1:1697:A:H2'	29:D1:1698:C:H5'	1.43	1.00
1:A1:1724:U:H2'	1:A1:1725:U:H5	1.26	1.00
29:B1:829:U:N3	29:B1:895:A:N6	2.10	1.00
29:B1:3303:G:H1'	29:B1:3304:U:C5'	1.92	1.00
29:D1:775:A:O3'	29:D1:776:U:H4'	1.62	1.00
29:D1:3201:C:H6	29:D1:3201:C:P	1.85	1.00
29:D1:3342:A:N6	29:D1:3363:U:C4	2.30	1.00
1:A1:125:U:O2'	1:A1:126:A:H5'	1.62	1.00
29:B1:1626:U:H4'	29:B1:1626:U:OP1	1.59	1.00
29:B1:1696:A:H2'	29:B1:1697:A:C8	1.97	1.00
1:C1:1377:U:H2'	1:C1:1378:U:H4'	1.37	1.00
29:D1:591:G:N2	29:D1:592:A:C1'	2.25	1.00
29:D1:1079:A:H2'	29:D1:1080:A:C8	1.95	1.00
29:D1:1779:C:H4'	29:D1:1780:G:C5'	1.91	1.00
29:D1:2689:A:N3	29:D1:2702:A:C2	2.30	1.00
1:A1:1197:C:OP1	1:A1:1197:C:H4'	1.59	0.99
29:B1:1280:C:H2'	29:B1:1281:G:C8	1.97	0.99
31:B3:76:C:H4'	31:B3:77:A:OP1	1.61	0.99
1:C1:170:U:P	1:C1:267:U:O2'	2.20	0.99
1:C1:243:G:C6	1:C1:251:A:C6	2.50	0.99
1:C1:1219:A:H5'	1:C1:1220:C:H5	1.22	0.99
1:C1:1378:U:H5'	1:C1:1379:C:C6	1.95	0.99
29:D1:592:A:C3'	29:D1:593:C:H4'	1.92	0.99
29:D1:1796:G:H5"	29:D1:1797:A:OP1	1.61	0.99
29:D1:2703:A:H5"	29:D1:2704:A:H5'	1.44	0.99
29:D1:3328:G:N2	29:D1:3329:U:C6	2.29	0.99
16:AO:54:ASP:HA	16:AO:59:GLY:HA2	1.44	0.99
29:B1:609:G:O2'	29:B1:610:G:H5"	1.60	0.99
29:B1:834:U:H6	29:B1:834:U:H5"	1.26	0.99
29:B1:1647:A:H2'	29:B1:1648:A:H5'	1.43	0.99
1:C1:1376:C:H2'	1:C1:1377:U:H5	1.27	0.99
29:D1:549:U:H2'	29:D1:550:A:C8	1.96	0.99
29:D1:2727:A:H4'	29:D1:2728:G:OP1	1.62	0.99
56:Da:85:ALA:HB3	56:Da:86:LYS:HA	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:509:G:H2'	1:A1:510:G:C8	1.96	0.99
29:B1:866:A:C8	29:B1:867:G:C8	2.50	0.99
29:B1:2948:C:H2'	29:B1:2949:U:H6	1.24	0.99
29:B1:3048:A:H62	29:B1:3090:U:H3'	1.25	0.99
29:B1:3233:C:H2'	29:B1:3234:A:C8	1.97	0.99
29:B1:3377:G:O2'	29:B1:3378:C:OP1	1.79	0.99
30:B2:12:U:C3'	30:B2:13:A:C2	2.43	0.99
29:D1:81:C:O2'	29:D1:82:C:H5'	1.60	0.99
29:D1:3122:A:C2'	29:D1:3123:A:H5"	1.91	0.99
1:A1:825:U:H5	1:A1:847:A:C6	1.80	0.99
1:A1:897:C:N3	1:A1:914:G:N2	2.11	0.99
28:Ah:21:UNK:HA	28:Ah:25:UNK:HA	1.41	0.99
29:B1:423:A:H2'	29:B1:424:G:C8	1.97	0.99
36:BE:272:TYR:H	36:BE:273:ARG:HA	1.22	0.99
1:C1:250:C:H2'	1:C1:251:A:H8	1.27	0.99
29:D1:1688:U:H2'	29:D1:1689:U:C5	1.97	0.99
29:D1:2326:A:H5"	29:D1:2327:U:OP2	1.62	0.99
29:B1:549:U:H2'	29:B1:550:A:C8	1.97	0.99
29:B1:594:U:O2	29:B1:594:U:H2'	1.58	0.99
29:B1:2213:A:H2'	29:B1:2214:A:H8	1.16	0.99
29:B1:3215:A:O5'	29:B1:3218:A:O4'	1.80	0.99
29:B1:3273:A:C6	29:B1:3274:A:N7	2.30	0.99
1:C1:1146:G:C8	1:C1:1635:A:H2	1.80	0.99
29:D1:421:G:H3'	29:D1:421:G:H8	1.20	0.99
29:D1:591:G:H21	29:D1:592:A:H1'	1.27	0.99
29:D1:754:G:H22	29:D1:778:U:H3	1.05	0.99
29:D1:2328:U:H2'	29:D1:2329:C:H5"	1.39	0.99
29:D1:2754:G:H3'	29:D1:2755:C:C5'	1.92	0.99
36:DE:97:ALA:HA	36:DE:100:ALA:HB3	1.40	0.99
50:DU:80:ARG:O	50:DU:98:ASN:HA	1.60	0.99
29:B1:504:A:H3'	29:B1:504:A:H8	1.23	0.99
29:B1:3303:G:H4'	29:B1:3304:U:OP1	1.56	0.99
29:D1:208:C:H2'	29:D1:209:A:C5'	1.93	0.99
29:D1:2255:A:O5'	74:D1:3415:OHX:N1	1.96	0.99
29:D1:2728:G:H2'	29:D1:2728:G:N3	1.76	0.99
47:DR:154:GLY:H	47:DR:155:MET:HA	1.27	0.99
29:B1:880:G:C8	29:B1:882:A:C8	2.51	0.99
29:B1:1439:U:H2'	29:B1:1440:G:C8	1.98	0.99
1:C1:825:U:H5	1:C1:847:A:C6	1.80	0.99
1:C1:921:U:O2'	1:C1:922:G:H5'	1.63	0.99
1:C1:1467:C:O2'	1:C1:1468:U:H5'	1.63	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2252:A:H2'	29:D1:2253:G:H8	1.27	0.99
29:D1:2255:A:O5'	74:D1:3415:OHX:N2	1.96	0.99
30:D2:7:G:H1	30:D2:114:U:H3	1.10	0.99
29:B1:208:C:H2'	29:B1:209:A:C5'	1.93	0.99
29:B1:504:A:H2	29:B1:587:U:C2	1.79	0.99
29:B1:715:A:H2	29:B1:784:A:H4'	0.82	0.99
29:B1:2255:A:C4	74:B1:3438:OHX:N5	2.30	0.99
29:B1:3242:G:N2	29:B1:3245:A:N7	2.08	0.99
17:CP:109:ARG:H	17:CP:110:LYS:HA	1.27	0.99
29:D1:384:A:O5'	29:D1:384:A:H8	1.43	0.99
1:A1:97:C:H1'	1:A1:426:G:H5'	1.42	0.99
18:AQ:57:TYR:CB	18:AQ:58:ARG:HA	1.92	0.99
29:B1:2698:G:H2'	29:B1:2699:G:H5"	1.40	0.99
29:B1:2779:A:H5'	29:B1:2779:A:C8	1.98	0.99
1:C1:10:G:OP1	1:C1:1633:A:C5'	2.10	0.99
1:C1:96:G:H1	1:C1:387:A:N6	1.61	0.99
1:C1:1348:A:H5"	15:CN:12:GLN:H	0.83	0.99
29:D1:517:G:OP2	29:D1:517:G:H8	1.44	0.99
29:D1:951:A:H2'	29:D1:952:A:H5"	1.00	0.99
29:D1:1331:U:H4'	29:D1:1332:A:OP2	1.62	0.99
1:A1:1022:C:H4'	1:A1:1124:A:H61	1.28	0.99
1:A1:1273:G:H4'	1:A1:1274:C:H5'	1.02	0.99
29:B1:592:A:H2'	29:B1:593:C:O4'	1.62	0.99
29:B1:781:G:C2'	29:B1:782:U:H5'	1.93	0.99
29:B1:3392:U:C4	29:B1:3393:U:O4	2.16	0.99
34:BC:154:TYR:H	34:BC:155:ALA:HB2	1.27	0.99
29:D1:417:A:H2'	29:D1:418:A:C8	1.98	0.99
29:B1:384:A:H3'	29:B1:385:A:H8	1.24	0.98
29:B1:406:G:H1'	31:B3:16:G:H22	1.23	0.98
29:B1:516:A:C3'	29:B1:517:G:C8	2.45	0.98
1:C1:1099:U:H4'	1:C1:1099:U:OP1	1.59	0.98
29:D1:154:U:H4'	29:D1:155:G:OP2	1.59	0.98
29:D1:781:G:C2'	29:D1:782:U:H5'	1.92	0.98
31:D3:16:G:O6	74:D3:212:OHX:N5	1.96	0.98
36:DE:111:GLN:H	36:DE:114:GLY:C	1.70	0.98
29:B1:409:A:H61	31:B3:15:G:H1'	1.24	0.98
29:B1:1715:A:H3'	29:B1:1716:U:H5"	1.46	0.98
29:B1:1779:C:H4'	29:B1:1780:G:C5'	1.93	0.98
1:C1:402:C:H2'	1:C1:403:G:C5'	1.93	0.98
29:D1:432:G:H2'	29:D1:433:A:C8	1.96	0.98
29:D1:3321:C:C2	29:D1:3322:A:C8	2.50	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1628:U:H2'	1:A1:1629:G:H8	1.28	0.98
29:B1:3391:A:C2	29:B1:3392:U:C6	2.52	0.98
36:BE:111:GLN:H	36:BE:114:GLY:C	1.70	0.98
38:BG:73:GLY:HA2	38:BG:74:SER:O	1.62	0.98
1:C1:989:U:H2'	1:C1:990:C:C6	1.98	0.98
29:D1:282:G:N2	29:D1:286:U:H4'	1.78	0.98
29:D1:576:C:C2'	29:D1:577:C:H5"	1.94	0.98
37:DF:41:ILE:H	37:DF:85:ILE:HA	0.81	0.98
1:A1:1348:A:H5"	15:AN:12:GLN:N	1.77	0.98
1:A1:1378:U:O5'	1:A1:1379:C:H5"	1.63	0.98
1:A1:1724:U:H2'	1:A1:1725:U:C5	1.98	0.98
21:AT:213:SER:O	21:AT:220:ILE:HA	1.63	0.98
1:C1:524:U:H2'	1:C1:527:A:H2	1.29	0.98
29:D1:1189:C:H4'	29:D1:1192:C:H5	1.25	0.98
29:D1:1607:U:H1'	29:D1:1608:C:OP1	1.64	0.98
29:D1:2673:A:N6	29:D1:2681:U:C4	2.28	0.98
29:D1:3022:G:O2'	29:D1:3023:U:OP2	1.78	0.98
29:B1:822:G:H2'	29:B1:823:C:H6	1.27	0.98
29:B1:1504:A:H2'	29:B1:1505:C:H6	1.27	0.98
29:B1:3389:U:H4'	29:B1:3390:G:H5"	1.41	0.98
29:B1:725:G:H2'	29:B1:726:G:H5"	1.45	0.98
29:B1:1688:U:H2'	29:B1:1689:U:C5	1.97	0.98
29:B1:3201:C:H6	29:B1:3201:C:P	1.85	0.98
30:B2:63:A:C3'	30:B2:64:A:H5"	1.93	0.98
30:B2:92:A:H2'	30:B2:93:C:O4'	1.64	0.98
29:D1:210:U:OP2	29:D1:210:U:C6	2.17	0.98
29:D1:284:A:H2	29:D1:306:A:C1'	1.75	0.98
29:D1:1678:G:H2'	29:D1:1679:A:H8	1.29	0.98
29:D1:2739:A:H5"	29:D1:2740:A:OP2	1.62	0.98
30:D2:9:C:H2'	30:D2:13:A:H62	1.25	0.98
1:A1:25:C:C4	1:A1:367:A:H1'	1.97	0.98
1:A1:40:A:H2'	1:A1:41:A:H8	1.29	0.98
29:B1:551:A:H2'	29:B1:552:G:O4'	1.64	0.98
29:B1:1503:A:H3'	29:B1:1504:A:C5'	1.93	0.98
30:B2:13:A:H5'	30:B2:112:G:H1'	1.43	0.98
46:BQ:112:LEU:HA	46:BQ:151:THR:O	1.63	0.98
1:C1:1420:C:H5	1:C1:1421:A:H8	0.99	0.98
29:D1:2680:A:H61	42:DK:56:THR:C	1.71	0.98
30:D2:12:U:H3'	30:D2:13:A:H2	0.84	0.98
29:B1:592:A:H2'	29:B1:593:C:C3'	1.93	0.98
29:B1:1153:A:N7	29:B1:1154:A:C6	2.32	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1156:C:C3’	29:B1:1157:G:H5”	1.93	0.98
29:B1:1506:A:O2’	29:B1:1507:G:H5’	1.63	0.98
29:B1:3303:G:H1’	29:B1:3304:U:H5’	1.42	0.98
1:C1:524:U:H2’	1:C1:527:A:C2	1.99	0.98
29:D1:42:C:H2’	29:D1:43:A:H5”	0.99	0.98
29:D1:612:U:H1’	29:D1:613:G:C8	1.98	0.98
29:D1:743:C:C2’	29:D1:744:A:H5’	1.92	0.98
29:D1:1416:C:H2’	29:D1:1416:C:O2	1.61	0.98
29:D1:2703:A:H5”	29:D1:2704:A:C5’	1.93	0.98
30:D2:34:C:H2’	30:D2:34:C:O2	1.59	0.98
29:B1:1286:A:N3	29:B1:1287:A:H1’	1.79	0.98
29:B1:2107:A:H2’	29:B1:2108:C:C6	1.98	0.98
29:B1:2223:A:O2’	29:B1:2224:A:H8	1.45	0.98
1:C1:427:C:H6	1:C1:427:C:C5’	1.76	0.98
1:C1:557:G:O2’	1:C1:558:U:H4’	1.64	0.98
1:C1:1458:G:H5’	1:C1:1459:C:C5	1.98	0.98
29:D1:1194:G:C8	29:D1:1319:G:H4’	1.99	0.98
29:D1:1213:G:H8	29:D1:1213:G:H5’	1.27	0.98
29:D1:1875:G:H2’	29:D1:1876:U:H5”	1.46	0.98
29:D1:3201:C:H2’	29:D1:3202:G:H8	1.28	0.98
29:B1:585:A:H2’	29:B1:586:C:C6	1.99	0.98
29:B1:659:G:H2’	29:B1:660:A:C8	1.97	0.98
29:B1:807:A:H5’	29:B1:808:A:OP2	1.62	0.98
29:B1:2593:A:H4’	29:B1:2594:C:H5’	1.46	0.98
29:B1:3321:C:C2	29:B1:3322:A:C8	2.51	0.98
70:Bq:5:UNK:O	70:Bq:6:UNK:C	2.11	0.98
1:C1:96:G:H1	1:C1:387:A:H61	0.98	0.98
1:C1:591:A:H2’	1:C1:592:A:C8	1.97	0.98
29:D1:1399:A:OP2	29:D1:1399:A:H4’	1.62	0.98
29:D1:3260:G:H3’	29:D1:3261:C:H5”	1.45	0.98
29:D1:3277:U:H2’	29:D1:3278:C:H5’	1.43	0.98
29:B1:2270:A:H5”	29:B1:2270:A:H8	1.25	0.97
29:B1:2680:A:H2’	42:BK:53:THR:O	1.62	0.97
29:B1:3201:C:H2’	29:B1:3202:G:H8	1.26	0.97
29:D1:866:A:C8	29:D1:867:G:C8	2.52	0.97
29:D1:1226:G:H2’	29:D1:1227:C:C6	1.99	0.97
29:D1:2797:C:H3’	29:D1:2798:C:H5’	1.46	0.97
5:AD:153:GLY:HA3	5:AD:154:ALA:HB3	1.45	0.97
29:B1:592:A:C4	29:B1:593:C:O4’	2.17	0.97
29:B1:1478:C:H2’	29:B1:1479:U:C6	1.99	0.97
29:D1:980:A:H61	29:D1:1104:G:H8	1.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2643:A:H5'	29:D1:2644:C:OP2	1.63	0.97
29:D1:2712:U:O2'	29:D1:2743:A:H4'	1.64	0.97
1:A1:452:A:H2'	1:A1:453:U:H5"	1.44	0.97
29:B1:560:G:O2'	29:B1:561:C:H5'	1.62	0.97
29:B1:884:A:N7	29:B1:2139:A:N3	2.12	0.97
29:B1:1875:G:C2'	29:B1:1876:U:H5"	1.92	0.97
1:C1:40:A:H2'	1:C1:41:A:H8	1.30	0.97
29:D1:784:A:H3'	29:D1:785:G:H5"	1.44	0.97
29:D1:1079:A:C8	36:DE:141:PRO:CB	2.46	0.97
29:D1:2684:C:H2'	29:D1:2685:C:C6	1.99	0.97
29:D1:3027:A:H2'	29:D1:3028:G:H8	1.24	0.97
41:DJ:161:GLY:HA2	41:DJ:162:GLN:CB	1.94	0.97
1:A1:1616:G:H21	1:A1:1618:C:H41	1.12	0.97
29:B1:645:A:C8	29:B1:649:A:N6	2.32	0.97
29:B1:1131:G:C4	29:B1:2373:A:C2	2.52	0.97
29:B1:2616:C:H2'	29:B1:2617:U:H5'	1.46	0.97
57:Bb:55:ILE:O	57:Bb:57:TYR:N	1.96	0.97
29:D1:3037:U:O2'	29:D1:3038:U:H5'	1.63	0.97
21:AT:180:ALA:HB3	21:AT:190:ALA:O	1.64	0.97
29:D1:592:A:N3	29:D1:593:C:H1'	1.78	0.97
29:D1:3024:A:N3	29:D1:3024:A:H2'	1.78	0.97
43:DN:76:ALA:HA	43:DN:79:ALA:HB3	1.43	0.97
1:A1:33:U:H1'	1:A1:468:A:H2	1.27	0.97
1:A1:629:U:H2'	1:A1:630:A:C8	1.98	0.97
29:B1:1560:G:N1	29:B1:1579:C:O2	1.98	0.97
29:B1:2916:U:H5	29:B1:2935:U:HO2'	1.06	0.97
29:D1:531:G:H2'	29:D1:532:A:H8	1.27	0.97
29:D1:834:U:H6	29:D1:834:U:H5"	1.28	0.97
56:Da:9:THR:HA	56:Da:76:SER:HA	1.42	0.97
1:A1:1109:G:H1	1:A1:1136:U:H3	1.10	0.97
29:B1:784:A:H2'	29:B1:785:G:C8	1.99	0.97
29:B1:1941:C:H42	29:B1:2107:A:H61	1.13	0.97
29:B1:2304:C:O2'	29:B1:2305:G:H5'	1.64	0.97
29:D1:2107:A:H2'	29:D1:2108:C:C6	1.98	0.97
29:D1:2633:U:O2'	29:D1:2634:U:H5'	1.63	0.97
29:D1:3060:C:H1'	29:D1:3331:U:H1'	1.46	0.97
29:D1:3127:A:H3'	29:D1:3128:G:H8	1.30	0.97
1:A1:1378:U:H5'	1:A1:1379:C:C6	1.98	0.97
29:B1:1793:C:H1'	29:B1:1794:G:OP1	1.63	0.97
29:B1:2113:A:H2'	29:B1:2114:C:H5'	1.41	0.97
1:C1:40:A:H2'	1:C1:41:A:C8	1.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:452:A:H2'	1:C1:453:U:H5"	1.44	0.97
29:D1:504:A:H2	29:D1:587:U:N3	1.61	0.97
29:D1:1383:G:H4'	35:DD:241:GLY:HA2	1.47	0.97
29:D1:2353:G:C5	29:D1:2354:C:H5	1.83	0.97
29:D1:2698:G:C2'	29:D1:2699:G:H5"	1.94	0.97
1:A1:518:A:H2'	1:A1:519:C:H5"	1.45	0.97
29:B1:3056:U:C2	29:B1:3056:U:OP1	2.18	0.97
31:B3:65:A:H2'	31:B3:66:A:C8	1.99	0.97
38:BG:66:LYS:O	38:BG:69:ALA:HB3	1.64	0.97
1:C1:87:C:H3'	1:C1:88:U:H5"	1.46	0.97
29:D1:585:A:H2'	29:D1:586:C:C6	1.99	0.97
29:D1:1154:A:H4'	29:D1:1155:C:OP2	1.61	0.97
29:D1:3011:A:H8	29:D1:3012:A:H1'	1.28	0.97
29:D1:3226:A:H2'	29:D1:3227:A:O4'	1.64	0.97
31:D3:69:U:C3'	31:D3:70:G:H4'	1.95	0.97
1:A1:394:C:H42	1:A1:401:A:H62	1.08	0.97
29:B1:42:C:C2'	29:B1:43:A:H5"	1.94	0.97
29:B1:278:U:H2'	29:B1:279:U:H6	1.29	0.97
29:B1:673:U:H2'	29:B1:674:G:H5'	1.46	0.97
29:B1:1186:G:H2'	29:B1:1187:C:H5'	1.43	0.97
1:C1:243:G:O6	1:C1:251:A:N6	1.95	0.97
1:C1:1092:A:C4	1:C1:1094:G:C8	2.53	0.97
29:D1:504:A:H2	29:D1:587:U:C2	1.83	0.97
29:D1:3023:U:H2'	29:D1:3024:A:C8	1.99	0.97
29:B1:588:G:H4'	29:B1:589:A:N7	1.80	0.96
29:B1:623:U:H2'	29:B1:624:G:C8	1.99	0.96
29:B1:754:G:H22	29:B1:778:U:H3	1.05	0.96
29:B1:2523:A:C1'	29:B1:2524:A:H5'	1.95	0.96
29:B1:3218:A:O2'	29:B1:3219:G:H3'	1.64	0.96
29:B1:3260:G:H3'	29:B1:3261:C:H5"	1.47	0.96
31:B3:37:A:H61	31:B3:104:A:H2'	1.25	0.96
31:B3:104:A:H5"	31:B3:105:A:H8	1.30	0.96
29:D1:1303:A:C2	29:D1:2887:A:N1	2.33	0.96
30:D2:35:C:H42	30:D2:47:C:C1'	1.77	0.96
1:A1:173:A:H3'	1:A1:174:U:H5"	1.44	0.96
29:B1:1255:C:H2'	29:B1:1256:G:H4'	1.43	0.96
29:B1:1901:A:H5"	29:B1:2919:A:OP1	1.64	0.96
29:B1:2324:A:H5"	29:B1:2325:G:OP2	1.63	0.96
1:C1:59:C:C5	1:C1:62:A:N6	2.33	0.96
1:C1:361:C:N3	1:C1:384:G:C2	2.33	0.96
29:D1:2168:A:C2	29:D1:2170:U:H1'	2.00	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3260:G:C2	29:D1:3261:C:H4'	2.00	0.96
33:DB:182:ALA:O	33:DB:184:ARG:N	1.98	0.96
1:A1:1753:A:H61	1:A1:1754:A:N6	1.63	0.96
29:B1:3226:A:H2'	29:B1:3227:A:O4'	1.66	0.96
29:B1:3391:A:C2'	29:B1:3392:U:H5"	1.94	0.96
1:C1:743:U:N3	1:C1:809:A:N3	2.00	0.96
29:D1:417:A:H2'	29:D1:418:A:H8	1.29	0.96
30:D2:64:A:N1	30:D2:111:U:O4	1.97	0.96
1:A1:489:C:O2	1:A1:498:G:N2	1.98	0.96
1:A1:824:G:C4'	1:A1:825:U:H5'	1.96	0.96
1:A1:1420:C:C5	1:A1:1421:A:H8	1.82	0.96
29:B1:625:G:H2'	29:B1:626:U:H6	1.27	0.96
29:B1:1846:C:H2'	29:B1:1846:C:O2	1.62	0.96
29:B1:2285:C:H5	29:B1:2286:U:C2	1.83	0.96
29:B1:3377:G:C8	74:B1:3450:OHX:N4	2.33	0.96
18:CQ:41:ILE:HA	18:CQ:44:GLN:H	1.25	0.96
29:D1:826:G:HO2'	29:D1:1589:A:H8	1.13	0.96
29:D1:1687:U:OP1	29:D1:1687:U:H3'	1.64	0.96
29:D1:2113:A:H2'	29:D1:2114:C:H5'	1.43	0.96
30:D2:92:A:H2'	30:D2:93:C:O4'	1.64	0.96
36:DE:99:TYR:HA	36:DE:165:GLY:HA3	1.45	0.96
1:A1:96:G:H1	1:A1:387:A:N6	1.63	0.96
29:B1:3327:G:C5	29:B1:3328:G:N7	2.34	0.96
30:B2:11:A:H1'	30:B2:67:G:H21	1.27	0.96
20:CS:23:VAL:O	74:CS:101:OHX:N6	1.98	0.96
1:A1:1718:G:H2'	1:A1:1719:A:H5"	1.47	0.96
29:B1:3136:G:C5	29:B1:3137:C:C5	2.53	0.96
29:D1:3242:G:H22	29:D1:3244:A:H8	1.13	0.96
1:A1:264:G:H3'	1:A1:265:A:C5'	1.95	0.96
1:A1:1087:A:H3'	1:A1:1088:A:H8	1.30	0.96
1:C1:26:A:H2'	1:C1:27:U:C6	2.01	0.96
1:C1:629:U:H2'	1:C1:630:A:C8	2.00	0.96
1:C1:700:C:H2'	1:C1:701:U:H6	1.25	0.96
1:C1:1099:U:C5	1:C1:1100:G:O6	2.18	0.96
29:D1:118:U:C4	29:D1:150:A:N6	2.32	0.96
29:D1:278:U:H2'	29:D1:279:U:H6	1.28	0.96
29:D1:829:U:N3	29:D1:895:A:N6	2.14	0.96
29:D1:2224:A:H2'	29:D1:2225:U:O4'	1.63	0.96
29:D1:2616:C:H2'	29:D1:2617:U:H5'	1.48	0.96
29:D1:2777:G:H2'	29:D1:2777:G:N3	1.80	0.96
29:D1:3215:A:O5'	29:D1:3218:A:H5"	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:74:C:O3'	74:D2:201:OHX:N1	1.98	0.96
31:D3:16:G:O6	74:D3:212:OHX:N3	1.97	0.96
34:DC:50:LYS:CB	34:DC:333:LYS:H	1.78	0.96
29:B1:592:A:N9	29:B1:593:C:O4'	1.98	0.96
29:B1:1557:A:H2'	29:B1:1558:A:O4'	1.64	0.96
29:B1:2168:A:C2	29:B1:2170:U:H1'	2.01	0.96
29:B1:3122:A:H2'	29:B1:3123:A:C5'	1.95	0.96
47:BR:98:LYS:HA	47:BR:117:ALA:HB1	1.48	0.96
1:C1:452:A:H2'	1:C1:453:U:C5'	1.95	0.96
1:C1:897:C:N3	1:C1:914:G:N2	2.12	0.96
29:D1:2161:G:H5"	29:D1:2162:U:OP2	1.65	0.96
29:D1:2897:A:H2'	29:D1:2899:C:H5"	1.48	0.96
35:DD:148:ILE:HA	35:DD:149:PRO:O	1.66	0.96
1:A1:1583:A:O2'	1:A1:1584:G:H5'	1.66	0.96
29:B1:150:A:C8	29:B1:151:A:N7	2.33	0.96
1:C1:249:U:H3'	1:C1:250:C:C5'	1.95	0.96
1:C1:1119:G:H2'	1:C1:1120:U:H6	1.27	0.96
21:CT:180:ALA:HB3	21:CT:190:ALA:O	1.64	0.96
29:D1:257:U:H2'	29:D1:258:G:C8	2.00	0.96
29:D1:1464:G:N2	29:D1:1466:G:H3'	1.80	0.96
29:D1:3099:C:O2'	29:D1:3100:U:H6	1.48	0.96
1:A1:44:U:H5'	1:A1:45:U:C5	2.01	0.96
54:BY:111:LYS:HA	54:BY:128:ARG:CB	1.96	0.96
1:C1:489:C:O2	1:C1:498:G:N2	1.97	0.96
1:C1:824:G:C4'	1:C1:825:U:H5'	1.96	0.96
29:D1:1879:A:OP2	29:D1:1879:A:H3'	1.65	0.96
29:D1:2847:A:H5'	29:D1:2848:G:OP2	1.65	0.96
29:D1:3201:C:H2'	29:D1:3202:G:C8	2.01	0.96
29:B1:584:G:H2'	29:B1:585:A:H8	1.30	0.95
29:B1:1120:A:H5'	29:B1:1121:U:OP2	1.66	0.95
29:B1:3232:G:N2	29:B1:3255:U:O2	1.96	0.95
29:B1:3314:A:H2'	34:BC:119:TYR:N	1.81	0.95
30:B2:2:G:H1	30:B2:119:U:H3	1.03	0.95
36:BE:28:THR:C	36:BE:30:TYR:H	1.71	0.95
1:C1:1274:C:H6	1:C1:1427:A:H62	1.12	0.95
1:C1:1784:C:H2'	1:C1:1785:U:H6	1.27	0.95
29:D1:3261:C:P	29:D1:3262:U:OP1	2.24	0.95
30:D2:12:U:C3'	30:D2:13:A:H2	1.77	0.95
1:A1:836:U:H2'	1:A1:837:G:C8	2.02	0.95
29:B1:576:C:C2'	29:B1:577:C:H5"	1.96	0.95
29:B1:595:G:H1	29:B1:609:G:C4'	1.78	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:715:A:H2	29:B1:784:A:C4'	1.78	0.95
45:BP:8:VAL:HA	45:BP:34:VAL:O	1.65	0.95
29:D1:606:C:C4	29:D1:607:A:C6	2.54	0.95
29:D1:1660:C:O2'	29:D1:1661:G:H5"	1.64	0.95
29:D1:2628:A:H1'	29:D1:2798:C:C4	2.01	0.95
36:DE:141:PRO:CB	36:DE:142:PHE:HA	1.96	0.95
1:A1:400:A:H4'	1:A1:401:A:H5'	1.47	0.95
1:A1:1350:U:OP2	1:A1:1351:G:H8	1.49	0.95
29:B1:826:G:H21	29:B1:1589:A:H62	1.14	0.95
29:B1:1331:U:H4'	29:B1:1332:A:OP2	1.65	0.95
30:B2:63:A:H3'	30:B2:64:A:H5"	0.98	0.95
1:C1:480:G:H22	1:C1:508:U:H3	1.12	0.95
29:D1:1479:U:H3'	29:D1:1480:G:H5"	0.96	0.95
30:D2:12:U:C5'	30:D2:68:C:O2'	2.14	0.95
1:A1:1092:A:C4	1:A1:1094:G:C8	2.54	0.95
1:A1:1752:U:H2'	1:A1:1753:A:H8	1.23	0.95
29:B1:819:U:H2'	29:B1:820:A:H8	1.31	0.95
29:B1:1303:A:C8	29:B1:1304:A:C6	2.53	0.95
29:B1:1464:G:N2	29:B1:1466:G:H3'	1.82	0.95
29:B1:1479:U:H3'	29:B1:1480:G:H5"	0.95	0.95
56:Ba:85:ALA:HB3	56:Ba:86:LYS:HA	1.45	0.95
29:D1:2698:G:H2'	29:D1:2699:G:H5"	1.46	0.95
1:A1:827:C:C2	1:A1:846:G:O6	2.17	0.95
29:B1:132:C:H2'	29:B1:132:C:O2	1.65	0.95
29:B1:531:G:H2'	29:B1:532:A:C8	2.00	0.95
29:B1:3392:U:C2	29:B1:3393:U:C4	2.54	0.95
1:C1:394:C:H2'	1:C1:395:U:H5'	1.49	0.95
1:C1:1018:U:H2'	1:C1:1019:A:C8	2.00	0.95
29:D1:556:U:H2'	29:D1:557:A:C1'	1.97	0.95
29:D1:644:G:H4'	29:D1:1153:A:H2	0.79	0.95
29:D1:1786:G:H2'	29:D1:1787:A:C8	2.01	0.95
29:D1:2501:U:H4'	29:D1:2502:A:OP1	1.66	0.95
29:D1:3215:A:O5'	29:D1:3218:A:O4'	1.83	0.95
29:D1:3391:A:C2'	29:D1:3392:U:H5"	1.95	0.95
1:A1:264:G:H3'	1:A1:265:A:H5'	1.46	0.95
1:A1:1753:A:N6	1:A1:1754:A:N6	2.13	0.95
29:B1:1660:C:O2'	29:B1:1661:G:H5"	1.66	0.95
29:B1:3201:C:H2'	29:B1:3202:G:C8	2.00	0.95
29:B1:3387:U:H2'	29:B1:3388:C:C5	2.01	0.95
47:BR:117:ALA:HB3	47:BR:118:GLY:HA2	1.47	0.95
1:C1:1350:U:OP2	1:C1:1351:G:H8	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:12:U:C3'	30:D2:13:A:C2	2.49	0.95
1:A1:1007:C:O2	1:A1:1007:C:H2'	1.67	0.95
1:A1:1227:A:H4'	1:A1:1230:A:C6	2.01	0.95
9:AH:100:ALA:O	9:AH:104:ALA:HB2	1.67	0.95
29:B1:42:C:H2'	29:B1:43:A:H5"	0.97	0.95
29:B1:1297:C:H2'	29:B1:1298:C:H5'	1.49	0.95
29:B1:2362:C:N4	29:B1:2376:G:O6	1.98	0.95
30:B2:9:C:C2'	30:B2:13:A:H62	1.78	0.95
1:C1:142:G:N1	1:C1:173:A:N1	2.00	0.95
29:D1:645:A:C8	29:D1:649:A:N6	2.34	0.95
29:D1:1628:C:O2'	29:D1:1630:U:H5'	1.64	0.95
29:D1:3392:U:C4	29:D1:3393:U:O4	2.19	0.95
1:A1:1022:C:H4'	1:A1:1124:A:N6	1.81	0.95
29:B1:26:A:H2'	29:B1:27:C:C6	2.01	0.95
29:B1:611:A:OP1	29:B1:611:A:H4'	1.64	0.95
29:B1:3006:A:N1	29:B1:3143:C:O2'	2.00	0.95
29:B1:3022:G:O2'	29:B1:3023:U:OP2	1.83	0.95
29:B1:3150:A:H5"	34:BC:134:SER:HA	1.48	0.95
35:BD:63:GLU:O	35:BD:75:PRO:HA	1.67	0.95
29:D1:1011:A:H61	29:D1:1039:U:H3	0.99	0.95
34:DC:51:ALA:HB3	34:DC:78:VAL:O	1.67	0.95
29:B1:518:G:H22	29:B1:572:A:H61	1.09	0.95
29:B1:596:C:H3'	29:B1:596:C:O2	1.66	0.95
29:B1:726:G:N3	29:B1:744:A:C6	2.34	0.95
29:B1:2092:A:H3'	29:B1:2093:A:H5"	1.47	0.95
29:B1:2276:G:C5	29:B1:2277:C:C5	2.55	0.95
30:B2:7:G:H1	30:B2:114:U:H3	1.13	0.95
30:B2:12:U:C5'	30:B2:68:C:O2'	2.15	0.95
31:B3:40:A:H8	31:B3:40:A:H5'	1.31	0.95
1:C1:1129:U:H5"	1:C1:1130:G:OP2	1.65	0.95
24:Cc:32:UNK:O	24:Cc:36:UNK:CB	2.14	0.95
29:D1:72:C:C3'	29:D1:73:C:H5'	1.96	0.95
29:D1:423:A:H2'	29:D1:424:G:C8	2.02	0.95
29:D1:504:A:H8	29:D1:504:A:H3'	1.30	0.95
29:D1:1903:U:O2	29:D1:1905:G:H5"	1.66	0.95
29:D1:2223:A:O2'	29:D1:2224:A:H8	1.47	0.95
29:D1:3006:A:N1	29:D1:3143:C:O2'	1.98	0.95
36:DE:43:LYS:H	49:DT:69:LYS:CB	1.79	0.95
1:A1:1600:A:O2'	1:A1:1602:C:H5	1.48	0.95
29:B1:953:G:H4'	29:B1:954:U:C6	2.02	0.95
29:B1:1667:A:H2'	29:B1:1668:G:C8	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3172:A:H1'	29:B1:3173:G:N7	1.82	0.95
29:B1:3261:C:P	29:B1:3262:U:OP1	2.24	0.95
1:C1:340:U:H3'	1:C1:341:A:H8	1.32	0.95
29:D1:551:A:H2'	29:D1:552:G:O4'	1.66	0.95
29:D1:1593:A:H2'	29:D1:1594:A:C8	2.01	0.95
29:D1:3201:C:H6	29:D1:3201:C:OP1	1.48	0.95
29:D1:3242:G:N2	29:D1:3245:A:N7	2.14	0.95
30:D2:28:C:H5"	30:D2:29:C:OP2	1.66	0.95
1:A1:524:U:H2'	1:A1:527:A:C2	2.02	0.94
29:B1:13:A:C2	29:B1:15:C:H5'	2.02	0.94
29:B1:524:U:H2'	29:B1:525:C:C6	2.01	0.94
41:BJ:89:VAL:O	41:BJ:136:PHE:HA	1.67	0.94
29:D1:811:U:H2'	29:D1:812:G:H8	1.25	0.94
29:D1:966:U:H2'	29:D1:967:A:C8	2.01	0.94
29:D1:2992:U:H2'	29:D1:2993:G:C5'	1.96	0.94
29:D1:3198:U:H2'	29:D1:3199:G:C8	2.02	0.94
29:B1:1838:G:H5"	29:B1:1839:A:OP1	1.66	0.94
29:B1:2699:G:H5'	29:B1:2699:G:C8	2.02	0.94
29:B1:3330:A:H2'	29:B1:3331:U:C6	2.03	0.94
29:B1:3393:U:O2'	29:B1:3394:U:H5'	1.65	0.94
29:D1:1129:A:H2'	29:D1:1130:A:H5'	1.47	0.94
29:D1:3278:C:H5"	29:D1:3279:A:OP2	1.66	0.94
29:D1:3324:C:H2'	29:D1:3325:G:H8	1.32	0.94
43:DN:33:ALA:HB1	43:DN:48:GLY:H	1.32	0.94
1:A1:96:G:H1	1:A1:387:A:H61	0.97	0.94
1:A1:336:G:H2'	1:A1:337:G:H5"	1.48	0.94
29:B1:118:U:C4	29:B1:150:A:N6	2.34	0.94
29:B1:591:G:H21	29:B1:592:A:C1'	1.80	0.94
29:B1:1063:G:H5'	29:B1:1098:A:P	2.07	0.94
29:B1:3144:G:C4'	29:B1:3145:C:OP2	2.16	0.94
29:B1:3278:C:H5"	29:B1:3279:A:OP2	1.67	0.94
29:B1:3300:U:OP2	29:B1:3300:U:C6	2.20	0.94
31:B3:55:U:H2'	31:B3:56:G:H8	1.32	0.94
31:B3:128:U:H5"	31:B3:129:C:H5	1.31	0.94
1:C1:16:G:H2'	1:C1:17:C:C6	2.01	0.94
29:D1:706:A:C5	29:D1:714:G:N2	2.36	0.94
29:D1:761:A:N1	29:D1:770:G:N2	2.15	0.94
29:D1:1264:G:OP2	29:D1:1264:G:H2'	1.67	0.94
29:D1:1560:G:N1	29:D1:1579:C:O2	2.00	0.94
29:D1:3064:U:O2'	29:D1:3065:G:H5'	1.67	0.94
29:D1:3307:A:H8	29:D1:3307:A:O5'	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3389:U:H4'	29:D1:3390:G:H5"	1.46	0.94
1:A1:73:U:O4	1:A1:80:A:N6	1.98	0.94
29:B1:16:A:H61	31:B3:143:U:H3	1.08	0.94
29:B1:2361:A:N6	29:B1:2377:G:O6	2.00	0.94
29:B1:3099:C:O2'	29:B1:3100:U:H6	1.49	0.94
1:C1:1753:A:N6	1:C1:1754:A:N6	2.15	0.94
29:D1:963:G:H8	29:D1:963:G:H5'	1.28	0.94
30:D2:98:C:H5'	30:D2:99:G:OP2	1.66	0.94
1:A1:557:G:O2'	1:A1:558:U:H4'	1.64	0.94
1:A1:1657:U:H4'	1:A1:1658:G:O5'	1.64	0.94
2:AA:177:LEU:O	2:AA:181:VAL:CB	2.14	0.94
29:B1:327:A:H2	29:B1:328:U:C4	1.85	0.94
29:B1:342:A:H4'	29:B1:344:A:N7	1.83	0.94
29:B1:591:G:C2	29:B1:592:A:N9	2.36	0.94
29:B1:1495:U:H5"	29:B1:1496:C:C5	2.01	0.94
29:B1:2173:U:H2'	29:B1:2174:G:C8	2.03	0.94
29:B1:2689:A:N3	29:B1:2702:A:C2	2.36	0.94
29:B1:3215:A:O5'	29:B1:3218:A:H5"	1.66	0.94
29:B1:3324:C:H2'	29:B1:3325:G:H8	1.30	0.94
20:CS:49:ASP:N	20:CS:50:ILE:HA	1.74	0.94
29:D1:264:G:C6	29:D1:265:A:C6	2.55	0.94
29:D1:584:G:H2'	29:D1:585:A:C8	2.03	0.94
29:D1:1063:G:H1'	29:D1:1064:A:O5'	1.68	0.94
29:D1:1557:A:H2'	29:D1:1558:A:O4'	1.68	0.94
29:D1:2417:U:C5	29:D1:2606:G:N7	2.34	0.94
29:B1:637:C:HO2'	29:B1:638:C:H6	1.01	0.94
29:B1:1593:A:H2'	29:B1:1594:A:C8	2.03	0.94
29:B1:1648:A:H2'	29:B1:1649:U:O4'	1.67	0.94
1:C1:1752:U:H2'	1:C1:1753:A:C8	2.00	0.94
29:D1:993:G:N2	29:D1:2637:A:H3'	1.81	0.94
29:D1:3242:G:N1	29:D1:3244:A:H2'	1.82	0.94
1:A1:938:G:N2	1:A1:942:G:C4	2.35	0.94
1:A1:1348:A:C5'	15:AN:12:GLN:H	1.81	0.94
29:B1:35:A:H1'	29:B1:810:A:O2'	1.67	0.94
29:B1:432:G:H2'	29:B1:433:A:H8	1.32	0.94
29:B1:517:G:OP2	29:B1:517:G:H8	1.49	0.94
29:B1:518:G:H8	29:B1:518:G:OP2	1.50	0.94
29:B1:1011:A:H61	29:B1:1039:U:H3	1.04	0.94
29:B1:1213:G:H8	29:B1:1213:G:H5'	1.30	0.94
29:B1:1607:U:H1'	29:B1:1608:C:OP1	1.68	0.94
29:B1:2883:U:H2'	29:B1:2884:C:H6	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3140:G:H5”	29:B1:3140:G:H8	1.30	0.94
1:C1:1644:C:O2’	29:D1:2262:A:C8	2.20	0.94
2:CA:177:LEU:O	2:CA:181:VAL:CB	2.15	0.94
29:D1:518:G:H8	29:D1:518:G:OP2	1.50	0.94
29:D1:1303:A:H8	29:D1:1304:A:C5	1.84	0.94
29:D1:1340:G:H2’	29:D1:1341:U:C6	2.03	0.94
29:D1:2285:C:H5	29:D1:2286:U:C2	1.85	0.94
29:D1:2293:C:H5	29:D1:2294:U:H5	1.14	0.94
29:D1:2826:U:O2’	29:D1:2827:U:H5’	1.68	0.94
29:D1:3078:U:H4’	29:D1:3079:U:O5’	1.67	0.94
30:D2:95:A:H2’	30:D2:96:U:C6	2.02	0.94
31:D3:37:A:H61	31:D3:104:A:H2’	1.30	0.94
31:D3:132:G:H2’	31:D3:133:G:H8	1.32	0.94
1:A1:16:G:H2’	1:A1:17:C:C6	2.03	0.94
1:A1:87:C:H3’	1:A1:88:U:H5”	1.48	0.94
1:A1:1480:G:H5’	1:A1:1480:G:H8	1.30	0.94
1:A1:1573:A:H4’	1:A1:1574:G:C5’	1.97	0.94
29:B1:644:G:C4’	29:B1:1153:A:H2	1.81	0.94
29:B1:980:A:H61	29:B1:1104:G:H8	1.03	0.94
29:B1:2252:A:H2’	29:B1:2253:G:H8	1.33	0.94
29:B1:2583:C:H2’	29:B1:2584:G:C8	2.02	0.94
29:B1:3127:A:H3’	29:B1:3128:G:H8	1.32	0.94
31:B3:129:C:H2’	31:B3:130:C:C6	2.03	0.94
1:C1:62:A:C2	1:C1:63:G:N7	2.36	0.94
1:C1:827:C:H2’	1:C1:828:U:C2	2.03	0.94
1:A1:151:G:H1	1:A1:163:G:H22	1.10	0.94
1:A1:606:A:C8	1:A1:608:U:H5	1.86	0.94
1:A1:1484:G:H21	1:A1:1606:C:H1’	1.32	0.94
29:B1:514:G:H2’	29:B1:515:C:C2	2.03	0.94
29:B1:754:G:N2	29:B1:778:U:H3	1.66	0.94
29:B1:1063:G:H1’	29:B1:1064:A:O5’	1.68	0.94
29:B1:2946:A:C4	29:B1:2982:A:N6	2.35	0.94
39:BH:99:PRO:CB	39:BH:237:ILE:H	1.81	0.94
1:C1:921:U:H2’	1:C1:922:G:H8	1.32	0.94
1:C1:1573:A:H4’	1:C1:1574:G:C5’	1.98	0.94
1:C1:1590:G:H2’	1:C1:1591:C:C5	2.03	0.94
6:CE:114:TYR:HA	6:CE:119:ALA:HB3	1.50	0.94
29:D1:342:A:H4’	29:D1:344:A:N7	1.83	0.94
29:D1:1495:U:H5”	29:D1:1496:C:C5	2.02	0.94
29:D1:2146:C:H2’	29:D1:2147:A:C5’	1.98	0.94
29:D1:2680:A:OP2	29:D1:2681:U:C5	2.21	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2689:A:H4'	29:D1:2690:G:H5'	1.45	0.94
29:D1:3011:A:C8	29:D1:3012:A:H1'	2.01	0.94
38:DG:80:GLN:HA	38:DG:81:HIS:CB	1.97	0.94
29:B1:591:G:C2	29:B1:592:A:C4	2.56	0.93
1:C1:129:U:C5	1:C1:264:G:C5	2.56	0.93
1:C1:1099:U:O2'	1:C1:1100:G:C4	2.21	0.93
1:C1:1564:U:H2'	1:C1:1565:C:C6	2.03	0.93
29:D1:2513:U:H1'	29:D1:2514:U:OP1	1.69	0.93
29:D1:3233:C:H2'	29:D1:3234:A:C8	2.03	0.93
29:D1:3264:G:H2'	29:D1:3265:C:H5"	1.49	0.93
1:A1:59:C:C5	1:A1:62:A:N6	2.36	0.93
29:B1:421:G:H3'	29:B1:421:G:H8	1.28	0.93
29:B1:1191:U:OP2	29:B1:1192:C:C5	2.21	0.93
29:B1:1416:C:H2'	29:B1:1416:C:O2	1.69	0.93
29:B1:3386:G:H2'	29:B1:3387:U:C6	2.03	0.93
34:BC:118:PHE:HA	34:BC:119:TYR:CB	1.95	0.93
54:BY:80:THR:C	54:BY:82:ILE:H	1.75	0.93
1:C1:125:U:O2'	1:C1:126:A:H5'	1.66	0.93
1:C1:1007:C:O2	1:C1:1007:C:H2'	1.66	0.93
28:Ch:3:UNK:O	28:Ch:7:UNK:CB	2.17	0.93
29:D1:1157:G:H2'	29:D1:1158:A:O4'	1.68	0.93
29:D1:3136:G:C5	29:D1:3137:C:C5	2.56	0.93
35:DD:12:THR:CB	35:DD:13:GLY:HA3	1.98	0.93
1:A1:40:A:H2'	1:A1:41:A:C8	2.04	0.93
1:A1:1018:U:H2'	1:A1:1019:A:C8	2.02	0.93
29:B1:722:G:N2	29:B1:748:U:O2	2.01	0.93
29:B1:2353:G:C6	29:B1:2354:C:H5	1.85	0.93
29:B1:2698:G:C2'	29:B1:2699:G:H5"	1.98	0.93
31:B3:132:G:H2'	31:B3:133:G:C8	2.03	0.93
50:BU:80:ARG:O	50:BU:98:ASN:HA	1.68	0.93
1:C1:171:A:O2'	1:C1:172:C:H5"	1.67	0.93
1:C1:638:U:H3'	1:C1:639:U:H5'	1.47	0.93
1:C1:1291:G:H22	1:C1:1324:G:H1	1.03	0.93
29:D1:1223:A:N1	29:D1:1285:G:H5"	1.82	0.93
29:D1:2850:G:OP1	29:D1:2850:G:H4'	1.66	0.93
29:D1:3114:A:N7	29:D1:3115:C:C5	2.36	0.93
29:B1:72:C:C3'	29:B1:73:C:H5'	1.97	0.93
29:B1:346:C:N4	29:B1:348:A:H3'	1.84	0.93
31:B3:129:C:H2'	31:B3:130:C:H6	1.30	0.93
29:D1:2151:C:H5'	29:D1:2151:C:C6	2.02	0.93
37:DF:56:LYS:CB	37:DF:63:LEU:HA	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:868:G:H1	1:A1:960:U:H3	1.05	0.93
29:B1:2501:U:H4'	29:B1:2502:A:OP1	1.66	0.93
29:B1:3198:U:H3'	29:B1:3199:G:H8	1.31	0.93
29:B1:3274:A:C8	29:B1:3275:U:H2'	2.04	0.93
45:BP:124:LEU:CA	45:BP:126:VAL:N	2.32	0.93
1:C1:25:C:C4	1:C1:367:A:H1'	2.03	0.93
1:C1:1160:A:H2'	1:C1:1161:C:H6	1.33	0.93
1:C1:1160:A:H2'	1:C1:1161:C:C6	2.02	0.93
1:C1:1198:G:H3'	1:C1:1199:G:C5'	1.97	0.93
29:D1:1157:G:H5'	29:D1:1157:G:C8	2.03	0.93
29:D1:1157:G:H5'	29:D1:1157:G:H8	1.31	0.93
29:D1:1793:C:H1'	29:D1:1794:G:OP1	1.68	0.93
29:D1:3135:U:C5	29:D1:3136:G:C5	2.55	0.93
30:D2:2:G:H1	30:D2:119:U:H3	1.09	0.93
31:D3:128:U:H5"	31:D3:129:C:H5	1.30	0.93
1:A1:638:U:H3'	1:A1:639:U:H5'	1.50	0.93
29:B1:1495:U:C2	29:B1:1842:A:H2	1.86	0.93
29:B1:2703:A:H5"	29:B1:2704:A:H5'	1.46	0.93
29:B1:3078:U:H4'	29:B1:3079:U:O5'	1.67	0.93
46:BQ:76:PHE:HA	46:BQ:78:VAL:H	1.30	0.93
1:C1:23:G:H1'	1:C1:368:U:H5'	1.51	0.93
1:C1:1484:G:H21	1:C1:1606:C:H1'	1.34	0.93
29:D1:1478:C:H2'	29:D1:1479:U:C6	2.04	0.93
29:D1:2537:U:H3	29:D1:2542:U:H3	1.11	0.93
29:D1:3149:G:C2	29:D1:3150:A:C1'	2.51	0.93
30:D2:12:U:C5'	30:D2:68:C:H1'	1.96	0.93
1:A1:827:C:C4	1:A1:846:G:O6	2.20	0.93
29:B1:504:A:H2	29:B1:587:U:N3	1.65	0.93
29:B1:1189:C:H4'	29:B1:1192:C:H5	1.31	0.93
29:B1:2650:U:H5"	29:B1:2651:G:OP2	1.68	0.93
29:B1:3242:G:H22	29:B1:3244:A:H8	1.06	0.93
30:B2:12:U:H3'	30:B2:13:A:H2	0.82	0.93
1:C1:1109:G:H1	1:C1:1136:U:H3	0.93	0.93
1:C1:1200:G:H4'	1:C1:1201:G:OP2	1.66	0.93
29:D1:575:G:H5'	29:D1:575:G:C8	2.04	0.93
29:D1:1504:A:H2'	29:D1:1505:C:H6	1.33	0.93
1:A1:978:A:N6	1:A1:1024:U:N3	2.17	0.93
1:A1:1649:G:H2'	1:A1:1650:U:C6	2.03	0.93
29:B1:86:G:H22	29:B1:98:G:H2'	1.31	0.93
29:B1:264:G:H3'	29:B1:265:A:C8	2.04	0.93
29:B1:286:U:H2'	29:B1:287:G:H8	1.12	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:421:G:H21	29:B1:2365:C:H1'	1.30	0.93
29:B1:504:A:H3'	29:B1:504:A:C8	2.03	0.93
29:B1:1129:A:C6	29:B1:1130:A:C6	2.57	0.93
29:B1:1190:A:H2	29:B1:1191:U:H6	1.10	0.93
29:B1:1628:C:H4'	29:B1:1630:U:H2'	1.50	0.93
29:B1:3013:U:OP1	29:B1:3013:U:H4'	1.67	0.93
29:D1:334:A:H2'	29:D1:335:G:C8	2.04	0.93
29:D1:406:G:H1'	31:D3:16:G:H22	1.31	0.93
29:D1:1194:G:H4'	29:D1:1320:C:OP1	1.67	0.93
29:D1:1504:A:H3'	29:D1:1505:C:H5"	1.48	0.93
29:D1:2144:A:C2	29:D1:2281:A:C5	2.57	0.93
29:D1:3172:A:H1'	29:D1:3173:G:N7	1.82	0.93
29:D1:3222:U:H3	29:D1:3263:G:H1	0.97	0.93
29:D1:3271:G:C2	29:D1:3272:C:OP1	2.21	0.93
46:DQ:76:PHE:HA	46:DQ:78:VAL:N	1.84	0.93
1:A1:921:U:O2'	1:A1:922:G:H5'	1.67	0.93
29:B1:7:C:H3'	29:B1:7:C:O2	1.69	0.93
29:B1:2173:U:H2'	29:B1:2174:G:H8	1.33	0.93
43:BN:76:ALA:HA	43:BN:79:ALA:HB3	1.49	0.93
1:C1:973:A:C1'	29:D1:847:A:C2	2.51	0.93
1:C1:1204:A:C3'	1:C1:1205:C:H5"	1.99	0.93
1:C1:1480:G:H5'	1:C1:1480:G:C8	2.03	0.93
29:D1:363:G:C2'	29:D1:364:G:H5"	1.98	0.93
29:D1:822:G:H2'	29:D1:823:C:H6	1.34	0.93
29:D1:1274:A:H2'	29:D1:1275:C:H5"	1.47	0.93
30:D2:35:C:N4	30:D2:47:C:H1'	1.83	0.93
3:AB:219:GLY:O	3:AB:221:THR:N	2.01	0.93
29:B1:2251:G:H1'	29:B1:2252:A:OP1	1.68	0.93
29:B1:2396:G:O2'	29:B1:2398:A:H4'	1.69	0.93
29:B1:3201:C:OP1	29:B1:3201:C:C6	2.21	0.93
54:BY:131:SER:C	54:BY:133:LEU:H	1.77	0.93
1:C1:394:C:H42	1:C1:401:A:N6	1.67	0.93
1:C1:448:C:H2'	1:C1:449:C:H6	1.12	0.93
29:D1:562:C:H2'	29:D1:563:U:H6	1.34	0.93
29:D1:1846:C:H2'	29:D1:1846:C:O2	1.68	0.93
29:D1:2120:A:O2'	29:D1:2121:G:O5'	1.85	0.93
31:D3:65:A:H2'	31:D3:66:A:C8	2.04	0.93
36:DE:134:ALA:HB3	36:DE:136:GLU:H	1.33	0.93
1:A1:594:A:H4'	1:A1:595:G:H5'	1.51	0.92
29:B1:249:U:H4'	29:B1:250:U:OP1	1.68	0.92
29:B1:1560:G:N1	29:B1:1579:C:C2	2.37	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1903:U:O2	29:B1:1905:G:H5”	1.68	0.92
29:B1:3260:G:C2	29:B1:3261:C:H4’	2.03	0.92
31:B3:132:G:H2’	31:B3:133:G:H8	1.31	0.92
1:C1:228:G:HO2’	1:C1:229:U:H6	1.08	0.92
1:C1:1347:U:H4’	1:C1:1348:A:OP2	1.67	0.92
29:D1:425:G:H5”	29:D1:425:G:C8	2.04	0.92
29:D1:750:G:H2’	29:D1:751:A:H8	1.34	0.92
29:D1:1653:G:H2’	29:D1:1654:A:H5’	1.50	0.92
29:D1:2252:A:H2’	29:D1:2253:G:C8	2.04	0.92
29:D1:2315:G:C2	29:D1:2316:G:N7	2.37	0.92
29:D1:3262:U:OP2	29:D1:3262:U:H6	1.51	0.92
34:DC:118:PHE:HA	34:DC:119:TYR:CB	1.97	0.92
29:B1:2754:G:C3’	29:B1:2755:C:H5’	1.99	0.92
29:B1:2850:G:OP1	29:B1:2850:G:H4’	1.69	0.92
1:C1:44:U:C5’	1:C1:45:U:H5	1.83	0.92
1:C1:243:G:N1	1:C1:251:A:N1	2.17	0.92
1:C1:1457:C:C5	1:C1:1559:A:N6	2.36	0.92
1:C1:1560:U:O2	1:C1:1560:U:H2’	1.65	0.92
13:CL:37:GLY:HA3	13:CL:102:ALA:HA	1.50	0.92
29:D1:1278:A:O2’	29:D1:1279:C:H6	1.51	0.92
29:D1:1941:C:H42	29:D1:2107:A:H61	1.16	0.92
29:D1:3104:U:H2’	29:D1:3105:U:H5’	1.48	0.92
1:A1:1099:U:O2’	1:A1:1100:G:C4	2.21	0.92
6:AE:66:ASP:C	6:AE:68:LYS:H	1.73	0.92
6:AE:114:TYR:HA	6:AE:119:ALA:HB3	1.50	0.92
29:B1:22:G:C4	29:B1:23:A:C8	2.56	0.92
29:B1:153:U:H4’	29:B1:158:G:H21	1.34	0.92
29:B1:360:G:C6	29:B1:361:A:N6	2.38	0.92
29:B1:1481:A:O2’	29:B1:1858:A:H2’	1.70	0.92
29:B1:2268:U:H2’	29:B1:2269:U:H5	1.33	0.92
29:B1:3264:G:H2’	29:B1:3265:C:H5”	1.51	0.92
29:B1:3299:A:O2’	29:B1:3300:U:P	2.28	0.92
1:C1:609:U:H5”	1:C1:610:G:C5	2.03	0.92
1:C1:1280:C:H2’	1:C1:1281:G:C8	2.04	0.92
29:D1:1405:U:H2’	29:D1:1406:A:H8	1.35	0.92
29:D1:1678:G:H2’	29:D1:1679:A:C8	2.05	0.92
29:D1:3137:C:O2	29:D1:3137:C:H2’	1.69	0.92
30:D2:11:A:H1’	30:D2:67:G:H21	1.32	0.92
1:A1:1250:U:C4	1:A1:1251:U:O4	2.22	0.92
1:A1:1600:A:H4’	1:A1:1600:A:OP1	1.67	0.92
29:B1:118:U:H3	29:B1:150:A:N6	1.66	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:591:G:H21	29:B1:592:A:H1'	1.24	0.92
29:B1:2537:U:H3	29:B1:2542:U:H3	1.10	0.92
29:B1:3210:A:C3'	29:B1:3211:C:C6	2.53	0.92
47:BR:154:GLY:H	47:BR:155:MET:HA	1.30	0.92
1:C1:1626:U:C2'	1:C1:1627:U:H5'	1.98	0.92
29:D1:132:C:O2	29:D1:132:C:H2'	1.66	0.92
29:D1:2092:A:H3'	29:D1:2093:A:H5"	1.49	0.92
29:D1:2129:U:H2'	29:D1:2130:G:C8	2.03	0.92
29:D1:2523:A:C1'	29:D1:2524:A:H5'	1.99	0.92
30:D2:74:C:O3'	74:D2:201:OHX:N4	2.00	0.92
31:D3:14:C:H3'	31:D3:15:G:H8	1.33	0.92
1:A1:546:U:H2'	1:A1:547:U:C6	2.04	0.92
29:B1:325:A:H3'	29:B1:327:A:OP1	1.69	0.92
29:B1:592:A:H2'	29:B1:593:C:C2'	1.99	0.92
29:B1:1697:A:C2'	29:B1:1698:C:H5'	1.99	0.92
29:B1:1941:C:H42	29:B1:2107:A:N6	1.68	0.92
29:B1:2147:A:H5'	29:B1:2147:A:H8	1.34	0.92
29:B1:3044:G:O3'	34:BC:12:GLY:HA2	1.69	0.92
1:C1:73:U:O4	1:C1:80:A:N6	2.02	0.92
1:C1:394:C:H42	1:C1:401:A:H62	0.95	0.92
1:C1:1458:G:N3	1:C1:1458:G:H2'	1.82	0.92
29:D1:3047:U:C2	29:D1:3048:A:H2	1.82	0.92
30:D2:91:G:H2'	30:D2:92:A:H8	1.31	0.92
31:D3:129:C:H2'	31:D3:130:C:H6	1.33	0.92
39:DH:99:PRO:CB	39:DH:237:ILE:H	1.82	0.92
1:A1:322:G:C4'	1:A1:323:A:OP1	2.17	0.92
29:B1:100:A:H2'	29:B1:101:G:C8	2.05	0.92
29:B1:784:A:H3'	29:B1:785:G:H5"	1.50	0.92
36:BE:42:ALA:HB1	49:BT:69:LYS:CB	2.00	0.92
1:C1:938:G:N2	1:C1:942:G:C4	2.38	0.92
29:D1:155:G:N7	29:D1:157:A:C2	2.38	0.92
29:D1:512:U:C2	29:D1:579:G:C2	2.58	0.92
29:D1:1503:A:C3'	29:D1:1504:A:H5"	1.99	0.92
36:DE:159:VAL:O	36:DE:161:GLY:N	2.03	0.92
1:A1:243:G:C2	1:A1:251:A:C6	2.57	0.92
1:A1:394:C:H2'	1:A1:395:U:H5'	1.52	0.92
1:A1:1203:A:H2	1:A1:1556:A:H1'	1.35	0.92
29:B1:518:G:N2	29:B1:572:A:H61	1.67	0.92
29:B1:578:A:O2'	29:B1:579:G:OP2	1.87	0.92
29:B1:727:G:N2	29:B1:741:U:H3	1.67	0.92
29:B1:1947:G:H5"	29:B1:1948:G:OP2	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BA:67:ILE:HA	32:BA:112:ALA:HB2	1.52	0.92
35:BD:12:THR:CB	35:BD:13:GLY:HA3	1.99	0.92
1:C1:250:C:H2'	1:C1:251:A:C8	2.05	0.92
1:C1:836:U:H2'	1:C1:837:G:C8	2.04	0.92
11:CJ:93:HIS:CB	11:CJ:94:GLN:HA	2.00	0.92
29:D1:7:C:O2	29:D1:7:C:H3'	1.68	0.92
29:D1:22:G:C4	29:D1:23:A:C8	2.58	0.92
29:D1:421:G:C8	29:D1:421:G:C3'	2.52	0.92
29:D1:826:G:O2'	29:D1:1589:A:H8	1.52	0.92
29:D1:3334:U:H5'	29:D1:3371:G:N2	1.83	0.92
30:D2:98:C:H3'	30:D2:99:G:H5"	1.50	0.92
1:A1:126:A:N1	1:A1:292:U:H1'	1.84	0.92
1:A1:173:A:C5	1:A1:174:U:H6	1.82	0.92
1:A1:540:G:C1'	1:A1:541:A:OP1	2.18	0.92
29:B1:1503:A:C8	29:B1:1503:A:H5"	2.04	0.92
29:B1:2147:A:H8	29:B1:2147:A:C5'	1.83	0.92
29:B1:2417:U:C5	29:B1:2606:G:N7	2.37	0.92
35:BD:148:ILE:HA	35:BD:149:PRO:O	1.69	0.92
45:BP:35:VAL:O	45:BP:104:VAL:HA	1.67	0.92
1:C1:61:A:H4'	1:C1:62:A:H5'	1.50	0.92
1:C1:540:G:C1'	1:C1:541:A:OP1	2.16	0.92
1:C1:1600:A:OP1	1:C1:1600:A:H4'	1.68	0.92
5:CD:161:ASP:HA	5:CD:162:VAL:CB	1.99	0.92
29:D1:286:U:H2'	29:D1:287:G:H8	1.28	0.92
29:D1:585:A:H5"	29:D1:586:C:OP2	1.69	0.92
29:D1:975:C:H2'	29:D1:976:U:C6	2.05	0.92
29:D1:2268:U:H2'	29:D1:2269:U:H5	1.34	0.92
1:A1:468:A:N6	1:A1:595:G:C5	2.38	0.92
1:A1:1592:A:H2'	1:A1:1593:A:H8	1.35	0.92
29:B1:186:U:H5"	29:B1:187:A:OP2	1.69	0.92
29:B1:3198:U:H2'	29:B1:3199:G:C8	2.05	0.92
1:C1:1227:A:H4'	1:C1:1230:A:C6	2.04	0.92
29:D1:42:C:C2'	29:D1:43:A:H5"	1.96	0.92
29:D1:209:A:O2'	29:D1:210:U:C2	2.21	0.92
29:D1:421:G:N2	29:D1:2365:C:H1'	1.85	0.92
29:D1:556:U:H2'	29:D1:557:A:H1'	1.50	0.92
29:D1:3242:G:C1'	29:D1:3246:G:H22	1.83	0.92
29:D1:3303:G:H1'	29:D1:3304:U:C5'	1.99	0.92
1:A1:350:U:H4'	1:A1:352:A:C8	2.04	0.92
1:A1:921:U:H2'	1:A1:922:G:H8	1.35	0.92
1:A1:986:G:H1'	1:A1:987:G:H5'	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1392:U:H2'	1:A1:1393:C:C6	2.03	0.92
29:B1:379:C:H5"	29:B1:379:C:H6	1.35	0.92
29:B1:726:G:N3	29:B1:744:A:N6	2.18	0.92
29:B1:739:G:H2'	29:B1:740:G:C8	2.04	0.92
29:B1:1661:G:H4'	29:B1:1661:G:OP1	1.69	0.92
29:B1:1687:U:OP1	29:B1:1687:U:H3'	1.68	0.92
29:B1:3149:G:C2	29:B1:3150:A:C1'	2.53	0.92
29:B1:3277:U:H2'	29:B1:3278:C:H5'	1.50	0.92
36:BE:134:ALA:HB3	36:BE:136:GLU:H	1.35	0.92
45:BP:124:LEU:CB	45:BP:126:VAL:H	1.83	0.92
1:C1:199:G:HO2'	1:C1:200:A:H8	1.04	0.92
1:C1:291:G:H2'	1:C1:292:U:C6	2.05	0.92
1:C1:1784:C:H2'	1:C1:1785:U:C6	2.05	0.92
29:D1:951:A:C2	29:D1:1369:A:C2	2.57	0.92
29:D1:1062:A:O2'	29:D1:1063:G:OP1	1.87	0.92
29:D1:2287:C:O2	29:D1:2298:U:O4'	1.85	0.92
29:D1:2583:C:H2'	29:D1:2584:G:C8	2.05	0.92
1:A1:480:G:H22	1:A1:508:U:H3	1.13	0.91
1:A1:1129:U:H5"	1:A1:1130:G:OP2	1.68	0.91
1:A1:1160:A:H2'	1:A1:1161:C:C6	2.05	0.91
1:A1:1195:C:H41	11:AJ:142:TYR:HA	1.35	0.91
1:A1:1196:A:H4'	1:A1:1197:C:H5"	1.49	0.91
29:B1:1405:U:H2'	29:B1:1406:A:H8	1.33	0.91
29:B1:2315:G:C2	29:B1:2316:G:N7	2.37	0.91
31:B3:139:U:H2'	31:B3:140:G:C8	2.06	0.91
29:D1:431:U:H2'	29:D1:432:G:C8	2.03	0.91
29:D1:673:U:H2'	29:D1:674:G:H5'	1.52	0.91
29:D1:2680:A:P	29:D1:2681:U:C5	2.63	0.91
29:D1:3382:U:C3'	29:D1:3383:G:H4'	2.00	0.91
1:A1:591:A:H2'	1:A1:592:A:C8	2.05	0.91
1:A1:1160:A:H2'	1:A1:1161:C:H6	1.33	0.91
29:B1:556:U:H2'	29:B1:557:A:C1'	2.00	0.91
29:B1:3353:G:H3'	29:B1:3354:U:H5'	1.52	0.91
29:B1:3365:U:H2'	29:B1:3366:G:H8	1.34	0.91
9:CH:100:ALA:O	9:CH:104:ALA:HB2	1.70	0.91
29:D1:153:U:H4'	29:D1:158:G:H21	1.33	0.91
29:D1:955:U:H2'	29:D1:956:U:C6	2.05	0.91
29:D1:1875:G:C2'	29:D1:1876:U:H5"	2.01	0.91
1:A1:23:G:H1'	1:A1:368:U:H5'	1.49	0.91
1:A1:1291:G:H22	1:A1:1324:G:H1	1.03	0.91
29:B1:394:G:H1	29:B1:397:A:H5"	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2147:A:H2'	29:B1:2148:U:C6	2.05	0.91
29:B1:3231:U:H3	29:B1:3256:G:H1	1.13	0.91
1:C1:1542:G:H22	1:C1:1568:C:H2'	1.30	0.91
29:D1:150:A:C8	29:D1:151:A:N7	2.39	0.91
29:D1:609:G:O2'	29:D1:610:G:H5"	1.70	0.91
29:D1:1176:C:H5"	29:D1:1177:G:H5"	1.52	0.91
29:D1:1222:G:H4'	29:D1:1223:A:OP2	1.69	0.91
29:D1:1350:A:H5'	29:D1:1351:U:H5	1.34	0.91
29:D1:3055:U:H2'	29:D1:3085:G:N1	1.85	0.91
36:DE:28:THR:C	36:DE:30:TYR:H	1.65	0.91
1:A1:624:G:H1'	1:A1:1027:A:C4	2.06	0.91
1:A1:1110:G:H5'	1:A1:1110:G:C8	2.05	0.91
1:A1:1580:C:H2'	1:A1:1581:C:C6	2.05	0.91
1:A1:1590:G:H2'	1:A1:1591:C:C5	2.05	0.91
29:B1:1638:A:N3	29:B1:1709:C:H1'	1.85	0.91
29:B1:2255:A:C5	74:B1:3438:OHX:N6	2.39	0.91
29:B1:2370:G:C5	29:B1:2371:G:N7	2.39	0.91
29:B1:2565:U:H2'	29:B1:2566:C:C6	2.05	0.91
57:Bb:123:LYS:CB	57:Bb:124:GLY:HA2	1.99	0.91
1:C1:33:U:H1'	1:C1:468:A:H2	1.34	0.91
1:C1:1345:A:H2'	1:C1:1346:A:C5	2.04	0.91
29:D1:1439:U:H2'	29:D1:1440:G:H8	1.35	0.91
29:D1:1715:A:H3'	29:D1:1716:U:H5"	1.49	0.91
29:D1:1901:A:H5"	29:D1:1902:G:OP2	1.71	0.91
29:D1:2136:C:H5'	29:D1:2137:U:OP2	1.71	0.91
29:D1:2565:U:H2'	29:D1:2566:C:C6	2.06	0.91
29:D1:2656:A:H4'	29:D1:2657:A:OP1	1.69	0.91
31:D3:71:A:H4'	31:D3:72:A:OP1	1.70	0.91
37:DF:92:SER:O	37:DF:94:GLU:N	2.03	0.91
1:A1:1630:U:H4'	1:A1:1765:A:OP1	1.70	0.91
29:B1:2146:C:H2'	29:B1:2147:A:C5'	2.00	0.91
29:B1:3242:G:N1	29:B1:3244:A:H2'	1.85	0.91
1:C1:1281:G:H2'	1:C1:1282:U:H6	1.33	0.91
8:CG:51:GLY:HA2	8:CG:53:LEU:H	1.22	0.91
29:D1:807:A:H5'	29:D1:808:A:OP2	1.71	0.91
29:D1:2608:G:H2'	29:D1:2609:A:H8	1.34	0.91
29:D1:2992:U:C2'	29:D1:2993:G:H5'	2.00	0.91
29:D1:3029:A:H3'	29:D1:3030:G:H5"	1.49	0.91
29:D1:3330:A:H2'	29:D1:3331:U:C6	2.05	0.91
1:A1:750:U:C2'	1:A1:751:G:H5'	2.01	0.91
1:A1:978:A:N6	1:A1:1024:U:H3	1.66	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1099:U:C5	1:A1:1100:G:O6	2.24	0.91
1:A1:1376:C:H2'	1:A1:1377:U:C5	2.05	0.91
29:B1:511:G:N2	29:B1:580:C:C4	2.38	0.91
29:B1:2812:C:H2'	29:B1:2813:A:H8	1.32	0.91
29:B1:2873:U:O2'	29:B1:2874:G:H5'	1.71	0.91
29:B1:2918:G:C2	29:B1:2919:A:N7	2.37	0.91
41:BJ:93:PRO:HA	41:BJ:127:ALA:HB2	1.50	0.91
1:C1:169:A:HO2'	1:C1:171:A:H8	1.12	0.91
1:C1:400:A:H4'	1:C1:401:A:H5'	1.52	0.91
1:C1:986:G:H1'	1:C1:987:G:H5'	1.51	0.91
1:C1:1274:C:OP2	1:C1:1428:G:P	2.28	0.91
29:D1:400:G:H1'	29:D1:401:U:OP2	1.70	0.91
29:D1:2172:A:H2'	29:D1:2173:U:H5'	1.52	0.91
29:D1:2640:A:H2'	29:D1:2641:U:H6	1.35	0.91
29:D1:3231:U:H3	29:D1:3256:G:H1	0.95	0.91
1:A1:1480:G:H8	1:A1:1480:G:C5'	1.84	0.91
29:B1:611:A:H3'	29:B1:612:U:C5'	2.01	0.91
29:B1:775:A:C2'	29:B1:776:U:H4'	2.01	0.91
29:B1:829:U:H4'	29:B1:866:A:C2	2.05	0.91
29:B1:2636:A:H5"	29:B1:2637:A:C5'	2.00	0.91
29:B1:2862:U:O2'	29:B1:2863:G:H5'	1.69	0.91
29:B1:3321:C:O2'	29:B1:3322:A:H8	1.54	0.91
37:BF:86:ALA:HB1	37:BF:87:THR:HA	1.51	0.91
1:C1:110:U:H5"	1:C1:111:U:OP2	1.71	0.91
1:C1:546:U:H2'	1:C1:547:U:C6	2.05	0.91
29:D1:1063:G:H5'	29:D1:1098:A:O5'	1.70	0.91
29:D1:1648:A:H2'	29:D1:1649:U:O4'	1.69	0.91
29:D1:3013:U:OP1	29:D1:3013:U:H4'	1.67	0.91
31:D3:55:U:H2'	31:D3:56:G:H8	1.33	0.91
1:A1:162:A:H3'	1:A1:163:G:H8	1.36	0.91
1:A1:650:U:N3	1:A1:684:A:N6	1.93	0.91
1:A1:1291:G:H2'	1:A1:1292:G:H8	1.36	0.91
1:A1:1756:A:O5'	1:A1:1756:A:H8	1.50	0.91
12:AK:48:ASN:HA	12:AK:51:ALA:HB3	1.52	0.91
29:B1:595:G:N1	29:B1:610:G:OP1	2.04	0.91
29:B1:1340:G:H2'	29:B1:1341:U:C6	2.06	0.91
29:B1:2350:C:H4'	29:B1:3308:C:O2'	1.71	0.91
29:B1:2628:A:H1'	29:B1:2798:C:C4	2.06	0.91
29:B1:3210:A:C3'	29:B1:3211:C:H6	1.83	0.91
1:C1:113:U:H5"	1:C1:114:C:H5'	1.53	0.91
1:C1:1203:A:H2	1:C1:1556:A:H1'	1.31	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1250:U:C4	1:C1:1251:U:O4	2.23	0.91
21:CT:213:SER:O	21:CT:220:ILE:HA	1.68	0.91
29:D1:953:G:H4'	29:D1:954:U:C6	2.05	0.91
29:D1:1272:C:H2'	29:D1:1273:A:O4'	1.71	0.91
29:D1:1452:A:H1'	29:D1:2347:U:H5"	1.52	0.91
29:D1:2593:A:H4'	29:D1:2594:C:H5'	1.51	0.91
29:D1:3123:A:H2'	29:D1:3124:G:H5'	1.53	0.91
29:D1:3210:A:C3'	29:D1:3211:C:H6	1.83	0.91
1:A1:942:G:OP1	1:A1:977:A:H1'	1.71	0.91
29:B1:154:U:H4'	29:B1:155:G:OP2	1.67	0.91
29:B1:3215:A:C5'	29:B1:3218:A:H5"	2.00	0.91
1:C1:218:A:H61	1:C1:844:A:H1'	1.35	0.91
1:C1:763:G:H2'	1:C1:764:U:C6	2.06	0.91
1:C1:1634:C:H2'	1:C1:1634:C:O2	1.67	0.91
29:D1:1838:G:H5"	29:D1:1839:A:OP1	1.68	0.91
29:D1:2915:U:O2	29:D1:2915:U:H2'	1.69	0.91
29:D1:3122:A:H2'	29:D1:3123:A:C5'	1.99	0.91
53:DX:19:TYR:O	53:DX:21:THR:N	2.03	0.91
1:A1:871:G:O2'	1:A1:872:G:H8	1.53	0.91
1:A1:1435:G:H4'	1:A1:1436:A:OP2	1.70	0.91
29:B1:606:C:C4	29:B1:607:A:C6	2.58	0.91
29:B1:1303:A:C8	29:B1:1304:A:C5	2.59	0.91
29:B1:3318:G:N3	29:B1:3318:G:H2'	1.86	0.91
57:Bb:83:GLU:C	57:Bb:85:LEU:H	1.79	0.91
29:D1:249:U:H4'	29:D1:250:U:OP1	1.68	0.91
29:D1:524:U:H2'	29:D1:525:C:C6	2.06	0.91
29:D1:1303:A:H2	29:D1:2887:A:C2	1.88	0.91
29:D1:2611:U:H2'	29:D1:2612:U:H6	1.28	0.91
29:D1:2812:C:H2'	29:D1:2813:A:H8	1.34	0.91
29:D1:2833:A:H2'	29:D1:2834:G:H5'	1.52	0.91
1:A1:1197:C:H5'	1:A1:1198:G:OP2	1.71	0.90
1:A1:1363:U:H2'	1:A1:1364:G:C1'	2.01	0.90
24:Ac:51:UNK:HA	24:Ac:65:UNK:HA	1.53	0.90
29:B1:275:U:O2'	29:B1:276:U:H5'	1.71	0.90
29:B1:512:U:C2	29:B1:579:G:C2	2.58	0.90
29:B1:584:G:H2'	29:B1:585:A:C8	2.06	0.90
29:B1:993:G:N2	29:B1:2637:A:H3'	1.86	0.90
29:B1:1196:C:H5	29:B1:1197:A:H62	0.91	0.90
29:B1:1902:G:H2'	29:B1:1903:U:O4'	1.70	0.90
29:B1:3184:A:H5"	29:B1:3184:A:H8	1.35	0.90
29:B1:3376:A:N3	29:B1:3376:A:H5"	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:33:ALA:HB1	43:BN:48:GLY:H	1.35	0.90
1:C1:162:A:H3'	1:C1:163:G:H8	1.34	0.90
29:D1:504:A:H3'	29:D1:504:A:C8	2.06	0.90
29:D1:1156:C:C3'	29:D1:1157:G:H5"	2.01	0.90
29:D1:1506:A:O2'	29:D1:1507:G:H5'	1.71	0.90
29:D1:3023:U:H2'	29:D1:3024:A:H8	1.35	0.90
1:A1:524:U:H2'	1:A1:527:A:H2	1.32	0.90
29:B1:150:A:H2'	29:B1:151:A:H8	1.34	0.90
29:B1:1448:U:H5	29:B1:2355:G:C2	1.89	0.90
29:B1:2727:A:H4'	29:B1:2728:G:OP1	1.69	0.90
29:B1:3047:U:C2	29:B1:3048:A:C2	2.59	0.90
29:B1:3090:U:H5"	29:B1:3090:U:H6	1.21	0.90
29:B1:3137:C:O2	29:B1:3137:C:H2'	1.70	0.90
29:D1:360:G:C6	29:D1:361:A:N6	2.39	0.90
29:D1:414:U:O2'	29:D1:415:G:H5'	1.69	0.90
29:D1:826:G:H21	29:D1:1589:A:H62	1.14	0.90
29:D1:884:A:N7	29:D1:2139:A:N3	2.19	0.90
29:D1:1131:G:C4	29:D1:2373:A:C2	2.60	0.90
47:DR:98:LYS:HA	47:DR:117:ALA:HB1	1.51	0.90
1:A1:78:A:H4'	1:A1:79:C:OP2	1.71	0.90
29:B1:1303:A:H2	29:B1:2887:A:C2	1.89	0.90
29:B1:1913:A:C4	29:B1:2120:A:C8	2.59	0.90
29:B1:3215:A:OP2	29:B1:3218:A:C8	2.23	0.90
36:BE:159:VAL:O	36:BE:161:GLY:N	2.03	0.90
1:C1:62:A:OP2	1:C1:62:A:C3'	2.17	0.90
1:C1:357:G:C4	1:C1:358:U:C5	2.59	0.90
1:C1:526:A:N3	1:C1:526:A:H2'	1.84	0.90
1:C1:1348:A:H8	1:C1:1348:A:O5'	1.54	0.90
29:D1:346:C:N4	29:D1:348:A:H3'	1.85	0.90
29:D1:3174:A:H1'	29:D1:3175:U:H5"	1.53	0.90
29:D1:3215:A:C5'	29:D1:3218:A:H5"	2.01	0.90
1:A1:1144:U:O4'	1:A1:1300:A:C2	2.23	0.90
1:A1:1602:C:H3'	1:A1:1603:U:H6	1.36	0.90
29:B1:334:A:H2'	29:B1:335:G:C8	2.05	0.90
29:B1:407:A:O2'	29:B1:408:A:H5'	1.72	0.90
29:B1:726:G:H1'	29:B1:744:A:N1	1.87	0.90
29:B1:1289:G:H4'	29:B1:1290:A:OP1	1.68	0.90
29:B1:1303:A:H2	29:B1:2887:A:N1	1.69	0.90
29:B1:1441:G:H2'	29:B1:1442:U:C5'	2.00	0.90
29:B1:2253:G:O6	29:B1:2263:C:N4	2.04	0.90
29:B1:2673:A:O2'	42:BK:107:ASP:HA	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1144:U:H2'	1:C1:1145:U:C6	2.06	0.90
1:C1:1557:U:P	1:C1:1560:U:O4	2.28	0.90
29:D1:35:A:H1'	29:D1:810:A:O2'	1.72	0.90
29:D1:264:G:H3'	29:D1:265:A:C8	2.07	0.90
29:D1:308:A:C2	29:D1:2782:U:N3	2.39	0.90
29:D1:611:A:OP1	29:D1:611:A:H4'	1.71	0.90
29:D1:1218:U:H5"	29:D1:1219:C:OP2	1.71	0.90
29:D1:1902:G:H2'	29:D1:1903:U:O4'	1.72	0.90
29:D1:2111:G:N2	51:DV:49:ILE:HA	1.84	0.90
29:D1:2324:A:H5"	29:D1:2325:G:OP2	1.71	0.90
29:D1:2655:U:H4'	29:D1:2656:A:C5'	2.01	0.90
29:D1:2741:C:O3'	61:Df:19:LYS:HA	1.72	0.90
74:D1:3408:OHX:N2	74:D1:3582:OHX:N5	2.18	0.90
31:D3:65:A:H2'	31:D3:66:A:H8	1.34	0.90
1:A1:527:A:P	1:A1:528:U:H3'	2.11	0.90
1:A1:955:A:H4'	1:A1:1074:G:O2'	1.72	0.90
29:B1:8:C:H2'	29:B1:9:U:C6	2.06	0.90
29:B1:156:G:C8	29:B1:157:A:H1'	2.07	0.90
29:B1:210:U:OP2	29:B1:210:U:C6	2.23	0.90
29:B1:513:G:N2	29:B1:577:C:C2	2.39	0.90
29:B1:750:G:H22	29:B1:784:A:H1'	1.33	0.90
29:B1:1532:C:H2'	29:B1:1533:U:C6	2.06	0.90
36:BE:49:TYR:HA	36:BE:50:ARG:CB	2.01	0.90
1:C1:750:U:C2'	1:C1:751:G:H5'	2.02	0.90
1:C1:829:A:O2'	1:C1:830:U:OP2	1.89	0.90
1:C1:871:G:O2'	1:C1:872:G:H8	1.55	0.90
29:D1:430:U:H2'	29:D1:431:U:C6	2.05	0.90
29:D1:562:C:C2'	29:D1:563:U:C6	2.52	0.90
29:D1:1273:A:C8	29:D1:1274:A:C8	2.60	0.90
29:D1:1560:G:N1	29:D1:1579:C:C2	2.38	0.90
29:D1:1884:A:C5	29:D1:1885:U:N3	2.39	0.90
29:D1:2386:A:C4	29:D1:2994:A:C2	2.60	0.90
29:D1:2640:A:C4	29:D1:2641:U:C5	2.60	0.90
29:D1:2652:U:H2'	29:D1:2653:C:C6	2.07	0.90
29:D1:3353:G:H3'	29:D1:3354:U:H5'	1.51	0.90
1:A1:400:A:H4'	1:A1:401:A:C5'	2.01	0.90
1:A1:782:U:H4'	1:A1:783:G:O5'	1.72	0.90
29:B1:394:G:C2	29:B1:396:A:H2'	2.06	0.90
29:B1:625:G:H2'	29:B1:626:U:C6	2.06	0.90
29:B1:745:C:C4	29:B1:746:A:N6	2.40	0.90
1:C1:1101:G:H8	1:C1:1101:G:OP2	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:13:A:C2	29:D1:15:C:H5'	2.06	0.90
29:D1:126:U:HO2'	29:D1:127:G:H8	0.94	0.90
29:D1:1339:C:H2'	29:D1:1340:G:C8	2.06	0.90
29:D1:1448:U:H5	29:D1:2355:G:C2	1.88	0.90
45:DP:124:LEU:CB	45:DP:126:VAL:H	1.84	0.90
1:A1:29:U:O2	1:A1:597:G:O6	1.88	0.90
5:AD:161:ASP:HA	5:AD:162:VAL:CB	2.01	0.90
29:B1:641:C:H2'	29:B1:642:U:O4'	1.72	0.90
29:B1:884:A:N7	29:B1:2139:A:C4	2.40	0.90
29:B1:2948:C:H2'	29:B1:2949:U:C6	2.05	0.90
29:B1:3262:U:OP2	29:B1:3262:U:H6	1.53	0.90
1:C1:992:A:H2	1:C1:1012:U:H3	0.92	0.90
1:C1:1580:C:H2'	1:C1:1581:C:C6	2.07	0.90
6:CE:71:PHE:O	6:CE:75:ALA:HB2	1.71	0.90
15:CN:22:ILE:HA	15:CN:118:VAL:HA	1.51	0.90
29:D1:26:A:H2'	29:D1:27:C:C6	2.07	0.90
29:D1:726:G:N3	29:D1:744:A:C6	2.39	0.90
29:D1:1153:A:N7	29:D1:1154:A:C6	2.40	0.90
29:D1:1450:G:H8	29:D1:1450:G:O5'	1.55	0.90
45:DP:124:LEU:CA	45:DP:126:VAL:N	2.34	0.90
1:A1:62:A:C2	1:A1:63:G:N7	2.40	0.90
1:A1:427:C:H6	1:A1:427:C:C5'	1.83	0.90
1:A1:1628:U:H2'	1:A1:1629:G:C8	2.07	0.90
29:B1:750:G:N2	29:B1:784:A:C1'	2.34	0.90
29:B1:2299:A:C5	29:B1:2300:G:C8	2.60	0.90
29:B1:2353:G:C5	29:B1:2354:C:C5	2.60	0.90
29:B1:2771:U:H3'	29:B1:2772:C:C5'	2.02	0.90
29:B1:2826:U:O2'	29:B1:2827:U:H5'	1.72	0.90
29:B1:3090:U:C6	29:B1:3090:U:C5'	2.55	0.90
1:C1:380:U:H2'	1:C1:381:C:C6	2.07	0.90
1:C1:1146:G:H8	1:C1:1635:A:H2	1.14	0.90
1:C1:1363:U:H2'	1:C1:1364:G:C1'	2.02	0.90
1:C1:1375:A:H2'	1:C1:1376:C:N1	1.87	0.90
1:C1:1642:G:O6	74:C1:1901:OHX:N3	2.05	0.90
24:Cc:1:UNK:H	24:Cc:74:UNK:CA	1.84	0.90
29:D1:511:G:N2	29:D1:580:C:C2	2.38	0.90
29:D1:2997:G:H1'	29:D1:2998:U:O5'	1.70	0.90
29:D1:3264:G:C2'	29:D1:3265:C:H5"	2.02	0.90
31:D3:139:U:H2'	31:D3:140:G:C8	2.07	0.90
29:B1:1108:U:H2'	29:B1:1109:U:H6	1.35	0.90
29:B1:2270:A:H2'	29:B1:2271:A:C8	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:223:PHE:C	36:BE:225:GLY:HA3	1.97	0.90
1:C1:1198:G:H3'	1:C1:1199:G:H5'	1.53	0.90
29:D1:757:C:H2'	29:D1:757:C:O2	1.70	0.90
29:D1:1439:U:H2'	29:D1:1440:G:C8	2.07	0.90
29:D1:2405:C:H2'	29:D1:2405:C:O2	1.70	0.90
29:D1:2997:G:H1'	29:D1:2998:U:P	2.12	0.90
29:D1:3300:U:OP2	29:D1:3300:U:C6	2.23	0.90
29:D1:3318:G:H2'	29:D1:3318:G:N3	1.85	0.90
1:A1:721:U:H4'	1:A1:722:G:OP2	1.71	0.90
1:A1:1347:U:H4'	1:A1:1348:A:OP2	1.70	0.90
1:A1:1467:C:H5'	1:A1:1602:C:OP1	1.70	0.90
29:B1:1065:A:H1'	29:B1:1093:A:H61	1.37	0.90
29:B1:1199:C:C2	74:B1:3587:OHX:N6	2.40	0.90
29:B1:1862:U:H5"	29:B1:1863:G:OP2	1.72	0.90
29:B1:2877:G:H1	29:B1:2949:U:H3	1.18	0.90
1:C1:243:G:N2	1:C1:251:A:C2	2.40	0.90
1:C1:444:C:H42	1:C1:460:A:H62	1.15	0.90
1:C1:1600:A:O2'	1:C1:1602:C:H5	1.55	0.90
29:D1:1667:A:H2'	29:D1:1668:G:H8	1.31	0.90
29:D1:2259:A:H3'	29:D1:2260:U:C6	2.06	0.90
29:D1:2353:G:C6	29:D1:2354:C:C5	2.59	0.90
29:D1:3210:A:C3'	29:D1:3211:C:C6	2.53	0.90
1:A1:243:G:H2'	1:A1:244:A:H8	1.34	0.89
1:A1:289:U:H2'	1:A1:289:U:O2	1.71	0.89
1:A1:992:A:C2	1:A1:1012:U:C2	2.60	0.89
1:A1:1198:G:H3'	1:A1:1199:G:C5'	2.00	0.89
1:A1:1444:A:H5'	1:A1:1446:A:N7	1.87	0.89
29:B1:284:A:C2	29:B1:306:A:C8	2.60	0.89
29:B1:2143:A:C2'	29:B1:2144:A:H5'	2.02	0.89
29:B1:3028:G:C2	29:B1:3029:A:N3	2.40	0.89
30:B2:34:C:H2'	30:B2:34:C:O2	1.72	0.89
36:BE:99:TYR:HA	36:BE:165:GLY:HA3	1.52	0.89
1:C1:556:A:H5"	1:C1:558:U:OP2	1.72	0.89
1:C1:1734:U:H2'	1:C1:1735:U:C6	2.07	0.89
29:D1:383:G:H3'	29:D1:385:A:OP2	1.70	0.89
29:D1:405:U:H5	29:D1:406:G:C5	1.87	0.89
29:D1:774:G:C2'	29:D1:775:A:H5'	2.01	0.89
29:D1:784:A:H2'	29:D1:785:G:H8	1.36	0.89
29:D1:1638:A:N3	29:D1:1709:C:H1'	1.84	0.89
29:D1:2834:G:HO2'	29:D1:2835:U:H6	0.91	0.89
29:D1:3327:G:C5	29:D1:3328:G:N7	2.40	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:41:G:H5'	30:D2:42:A:OP2	1.70	0.89
1:A1:43:A:C2'	1:A1:44:U:H5"	2.02	0.89
1:A1:328:A:H2'	1:A1:329:G:C8	2.07	0.89
1:A1:1119:G:H2'	1:A1:1120:U:H6	1.37	0.89
1:A1:1457:C:C5	1:A1:1559:A:N6	2.40	0.89
29:B1:400:G:H1'	29:B1:401:U:OP2	1.72	0.89
29:B1:2143:A:H2'	29:B1:2144:A:H5'	1.53	0.89
29:B1:2251:G:O2'	29:B1:2252:A:H5"	1.72	0.89
29:B1:2680:A:OP2	29:B1:2681:U:C5	2.25	0.89
29:B1:2807:U:O2'	29:B1:2808:A:H5"	1.71	0.89
29:B1:3063:C:H2'	29:B1:3064:U:H6	1.36	0.89
29:B1:3190:C:H42	29:B1:3202:G:H1	1.18	0.89
34:BC:294:GLY:HA2	34:BC:296:THR:N	1.87	0.89
1:C1:250:C:C2	1:C1:251:A:C8	2.61	0.89
1:C1:1281:G:H2'	1:C1:1282:U:C6	2.06	0.89
1:C1:1313:A:H2'	1:C1:1315:U:H5'	1.55	0.89
1:C1:1558:U:C6	1:C1:1559:A:H5"	2.07	0.89
29:D1:515:C:H3'	29:D1:516:A:C5'	2.02	0.89
29:D1:637:C:HO2'	29:D1:638:C:H6	0.92	0.89
29:D1:775:A:C2'	29:D1:776:U:H4'	2.01	0.89
29:D1:1503:A:H3'	29:D1:1504:A:C5'	2.01	0.89
30:D2:14:U:C6	30:D2:14:U:O5'	2.25	0.89
1:A1:291:G:H2'	1:A1:292:U:C6	2.05	0.89
1:A1:328:A:H2'	1:A1:329:G:H8	1.37	0.89
1:A1:402:C:O2	1:A1:403:G:H4'	1.72	0.89
5:AD:197:GLU:H	5:AD:200:ASN:H	1.14	0.89
11:AJ:12:LYS:HA	11:AJ:17:THR:HA	1.53	0.89
14:AM:115:GLU:O	14:AM:122:ARG:HA	1.71	0.89
29:B1:33:G:N2	29:B1:50:U:C4	2.40	0.89
29:B1:195:U:H4'	29:B1:1391:C:H5	1.37	0.89
29:B1:1702:U:H3	29:B1:1743:G:H1	1.17	0.89
29:B1:2151:C:H5'	29:B1:2151:C:H6	1.35	0.89
29:B1:2215:A:H2'	29:B1:2215:A:N3	1.87	0.89
29:B1:2703:A:H5"	29:B1:2704:A:C5'	2.03	0.89
29:B1:3024:A:N3	29:B1:3024:A:H2'	1.85	0.89
36:BE:42:ALA:HB3	49:BT:69:LYS:O	1.70	0.89
1:C1:44:U:C5'	1:C1:45:U:C5	2.55	0.89
1:C1:228:G:C2	1:C1:229:U:C2	2.60	0.89
29:D1:360:G:H2'	29:D1:361:A:C8	2.08	0.89
29:D1:514:G:H2'	29:D1:515:C:C2	2.07	0.89
29:D1:591:G:C2	29:D1:592:A:C4	2.61	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2276:G:C5	29:D1:2277:C:C5	2.60	0.89
29:D1:2771:U:H3'	29:D1:2772:C:C5'	2.03	0.89
29:D1:2946:A:C4	29:D1:2982:A:N6	2.39	0.89
29:B1:726:G:C2	29:B1:727:G:C6	2.59	0.89
29:B1:1129:A:H2'	29:B1:1130:A:H5'	1.54	0.89
29:B1:2712:U:O2'	29:B1:2743:A:H4'	1.72	0.89
29:B1:3150:A:N6	29:B1:3152:U:O4	2.04	0.89
29:B1:3382:U:C3'	29:B1:3383:G:H4'	2.01	0.89
1:C1:1628:U:H2'	1:C1:1629:G:H8	1.35	0.89
1:C1:1649:G:H2'	1:C1:1650:U:H6	1.38	0.89
29:D1:1913:A:C4	29:D1:2120:A:C8	2.61	0.89
29:D1:3189:G:H2'	29:D1:3190:C:H6	1.35	0.89
57:Db:123:LYS:CB	57:Db:124:GLY:HA2	2.03	0.89
1:A1:1313:A:H2'	1:A1:1315:U:H5'	1.52	0.89
1:A1:1592:A:H2'	1:A1:1593:A:C8	2.07	0.89
29:B1:514:G:H2'	29:B1:515:C:N1	1.88	0.89
29:B1:562:C:C2'	29:B1:563:U:C6	2.54	0.89
29:B1:618:C:C2	29:B1:619:A:N7	2.40	0.89
29:B1:1350:A:H5'	29:B1:1351:U:H5	1.37	0.89
29:B1:2379:U:H2'	29:B1:2380:U:C6	2.08	0.89
29:B1:2833:A:H2'	29:B1:2834:G:H5'	1.55	0.89
29:B1:2869:U:H5"	29:B1:2870:C:OP2	1.71	0.89
34:BC:93:VAL:CB	34:BC:155:ALA:HB1	2.02	0.89
1:C1:357:G:H2'	1:C1:358:U:H6	1.37	0.89
1:C1:827:C:N3	1:C1:846:G:C6	2.40	0.89
1:C1:868:G:H1	1:C1:960:U:H3	1.12	0.89
1:C1:1100:G:C8	16:CO:76:SER:HA	2.08	0.89
1:C1:1109:G:O6	1:C1:1136:U:O4	1.91	0.89
24:Cc:10:UNK:CB	24:Cc:63:UNK:HA	2.03	0.89
29:D1:2948:C:H2'	29:D1:2949:U:H6	1.38	0.89
29:D1:3140:G:H5"	29:D1:3140:G:C8	2.08	0.89
29:D1:3201:C:OP1	29:D1:3201:C:C6	2.25	0.89
29:D1:3321:C:O2'	29:D1:3322:A:H8	1.56	0.89
1:A1:1392:U:H2'	1:A1:1393:C:H6	1.38	0.89
1:A1:1564:U:H2'	1:A1:1565:C:C6	2.08	0.89
29:B1:2699:G:H5'	29:B1:2699:G:H8	1.35	0.89
29:B1:2948:C:O2'	29:B1:2949:U:H5'	1.73	0.89
38:BG:80:GLN:HA	38:BG:81:HIS:CB	2.01	0.89
1:C1:1222:C:H2'	1:C1:1223:A:H8	1.37	0.89
29:D1:835:G:O2'	29:D1:857:G:N2	2.05	0.89
29:D1:1941:C:H42	29:D1:2107:A:N6	1.69	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3382:U:H3'	29:D1:3383:G:C4'	2.01	0.89
31:D3:69:U:C2	31:D3:70:G:H1'	2.07	0.89
47:DR:128:ALA:HA	47:DR:131:ALA:HB3	1.54	0.89
1:A1:1474:G:H2'	1:A1:1475:A:H8	1.37	0.89
29:B1:1156:C:H3'	29:B1:1157:G:H5"	1.53	0.89
29:B1:2254:U:O2	29:B1:2261:G:N2	2.05	0.89
29:B1:2673:A:O3'	42:BK:106:ILE:O	1.91	0.89
29:B1:3027:A:H2'	29:B1:3028:G:H8	1.24	0.89
29:B1:3271:G:C2	29:B1:3272:C:OP1	2.26	0.89
29:B1:3274:A:H1'	29:B1:3275:U:O5'	1.73	0.89
36:BE:141:PRO:CB	36:BE:142:PHE:HA	2.00	0.89
1:C1:85:A:HO2'	1:C1:86:A:H8	0.95	0.89
1:C1:320:U:H4'	1:C1:321:C:OP1	1.73	0.89
1:C1:1099:U:C4	1:C1:1100:G:O6	2.26	0.89
1:C1:1150:G:C4	1:C1:1766:A:OP1	2.26	0.89
1:C1:1684:U:H3'	1:C1:1684:U:O2	1.73	0.89
29:D1:2667:A:N3	29:D1:2667:A:C3'	2.34	0.89
29:D1:2918:G:C2	29:D1:2919:A:N7	2.40	0.89
1:A1:1050:G:C4	1:A1:1051:G:H1'	2.07	0.89
1:A1:1753:A:C6	1:A1:1754:A:C6	2.61	0.89
29:B1:417:A:H2'	29:B1:418:A:C8	2.07	0.89
29:B1:421:G:C8	29:B1:421:G:C3'	2.56	0.89
29:B1:1605:A:OP1	29:B1:1835:A:OP1	1.90	0.89
29:B1:2252:A:H2'	29:B1:2253:G:C8	2.08	0.89
29:B1:2680:A:P	29:B1:2681:U:C5	2.66	0.89
29:B1:2847:A:H5'	29:B1:2848:G:OP2	1.72	0.89
30:B2:25:G:C5	30:B2:26:C:N4	2.41	0.89
34:BC:50:LYS:CB	34:BC:333:LYS:H	1.86	0.89
1:C1:43:A:C2	1:C1:378:A:N6	2.41	0.89
1:C1:151:G:H1	1:C1:163:G:N2	1.71	0.89
29:D1:1901:A:H5"	29:D1:2919:A:OP1	1.73	0.89
30:D2:16:U:H2'	30:D2:17:A:H8	1.37	0.89
30:D2:95:A:H2'	30:D2:96:U:H6	1.33	0.89
31:D3:70:G:H5'	31:D3:71:A:C8	2.07	0.89
31:D3:132:G:H2'	31:D3:133:G:C8	2.07	0.89
34:DC:294:GLY:HA2	34:DC:296:THR:N	1.88	0.89
38:DG:69:ALA:HB1	38:DG:75:TYR:H	1.35	0.89
40:DI:111:PHE:HA	40:DI:112:ILE:C	1.96	0.89
45:DP:8:VAL:HA	45:DP:34:VAL:O	1.73	0.89
1:A1:190:C:H3'	1:A1:191:C:H5"	1.54	0.89
1:A1:829:A:O2'	1:A1:830:U:OP2	1.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1196:C:C6	29:B1:1197:A:N7	2.41	0.89
29:B1:1299:U:H2'	29:B1:1300:G:O4'	1.73	0.89
29:B1:3150:A:H3'	29:B1:3151:U:C5'	2.03	0.89
30:B2:12:U:C5'	30:B2:68:C:H1'	2.01	0.89
36:BE:100:ALA:C	36:BE:102:GLY:H	1.77	0.89
29:D1:430:U:C2'	29:D1:431:U:H5'	2.03	0.89
29:D1:513:G:N2	29:D1:577:C:C2	2.41	0.89
29:D1:743:C:H4'	47:DR:142:GLY:HA2	1.52	0.89
29:D1:2213:A:H2'	29:D1:2214:A:H8	1.30	0.89
29:D1:2244:A:O2'	33:DB:222:ALA:HB3	1.72	0.89
29:D1:3107:U:O2'	29:D1:3108:G:H5'	1.72	0.89
30:D2:63:A:H3'	30:D2:64:A:H5"	0.91	0.89
1:A1:249:U:H3'	1:A1:250:C:H5'	1.54	0.89
1:A1:720:G:H4'	1:A1:721:U:OP1	1.69	0.89
29:B1:327:A:C2	29:B1:328:U:C5	2.61	0.89
29:B1:542:G:H2'	29:B1:543:C:C6	2.08	0.89
29:B1:829:U:H3	29:B1:895:A:H61	1.19	0.89
29:B1:1289:G:H2'	29:B1:1290:A:H8	1.37	0.89
29:B1:2923:U:C2	29:B1:2924:U:H5	1.91	0.89
29:B1:3023:U:H2'	29:B1:3024:A:C8	2.07	0.89
29:B1:3334:U:H5'	29:B1:3371:G:H21	1.33	0.89
42:BK:50:ALA:HB3	42:BK:63:GLU:H	1.37	0.89
46:BQ:5:GLY:H	46:BQ:6:ALA:HA	1.37	0.89
1:C1:28:A:H2'	1:C1:29:U:C6	2.07	0.89
1:C1:78:A:H4'	1:C1:79:C:OP2	1.71	0.89
1:C1:250:C:C2'	1:C1:251:A:H5'	2.02	0.89
1:C1:328:A:H2'	1:C1:329:G:C8	2.08	0.89
1:C1:1602:C:H3'	1:C1:1603:U:H6	1.38	0.89
9:CH:64:ALA:HA	9:CH:68:ALA:H	1.36	0.89
29:D1:336:A:O2'	29:D1:337:G:H5'	1.72	0.89
29:D1:607:A:OP2	29:D1:607:A:H8	1.56	0.89
29:D1:781:G:H2'	29:D1:782:U:H5'	1.54	0.89
29:D1:2251:G:H1'	29:D1:2252:A:OP1	1.72	0.89
29:D1:2689:A:N3	29:D1:2702:A:H2	1.65	0.89
29:D1:2699:G:C8	29:D1:2699:G:H5'	2.07	0.89
29:D1:3201:C:OP2	29:D1:3201:C:O4'	1.89	0.89
29:D1:3365:U:H2'	29:D1:3366:G:H8	1.37	0.89
1:A1:1467:C:O2'	1:A1:1468:U:H5'	1.73	0.88
29:B1:64:G:O2'	29:B1:77:A:H1'	1.73	0.88
29:B1:726:G:N1	29:B1:727:G:C6	2.40	0.88
29:B1:993:G:N3	29:B1:2637:A:H2'	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1072:G:H2'	29:B1:1073:U:H6	1.38	0.88
29:B1:3011:A:H8	29:B1:3012:A:H1'	1.35	0.88
29:B1:3217:C:H6	29:B1:3220:G:HO2'	1.20	0.88
29:B1:3314:A:H5"	34:BC:119:TYR:H	1.38	0.88
1:C1:61:A:H4'	1:C1:62:A:C5'	2.02	0.88
1:C1:1055:U:O2	1:C1:1064:G:N2	2.05	0.88
29:D1:370:U:O2	29:D1:403:C:N3	2.06	0.88
29:D1:1716:U:H3'	29:D1:1717:U:H4'	1.55	0.88
29:D1:2393:G:C6	29:D1:2982:A:C2	2.61	0.88
29:D1:2877:G:H1	29:D1:2949:U:H3	1.19	0.88
31:D3:63:G:N2	31:D3:98:U:O2	2.04	0.88
1:A1:861:U:C5	1:A1:862:A:C8	2.60	0.88
1:A1:1763:A:C3'	1:A1:1764:C:H5"	2.02	0.88
29:B1:1064:A:C2	29:B1:1095:U:N3	2.39	0.88
29:B1:2636:A:H5"	29:B1:2637:A:H5'	1.53	0.88
29:B1:3101:G:H2'	29:B1:3102:G:H5"	1.52	0.88
29:B1:3198:U:C3'	29:B1:3199:G:H8	1.84	0.88
31:B3:88:A:H2'	31:B3:89:A:C5	2.08	0.88
1:C1:400:A:H4'	1:C1:401:A:C5'	2.02	0.88
1:C1:1203:A:C2	1:C1:1556:A:H1'	2.08	0.88
1:C1:1575:G:H2'	1:C1:1575:G:N3	1.86	0.88
29:D1:1241:U:H2'	29:D1:1243:G:OP2	1.73	0.88
29:D1:2279:A:C8	29:D1:2288:G:C6	2.62	0.88
29:D1:2376:G:C6	29:D1:2377:G:C6	2.61	0.88
29:D1:3219:G:OP1	29:D1:3220:G:H5"	1.74	0.88
29:D1:3303:G:H1'	29:D1:3304:U:H5'	1.54	0.88
29:D1:3328:G:N2	29:D1:3329:U:C5	2.42	0.88
1:A1:361:C:N3	1:A1:384:G:C2	2.41	0.88
1:A1:825:U:O4	1:A1:847:A:N6	2.05	0.88
1:A1:1101:G:H8	1:A1:1101:G:OP2	1.57	0.88
1:A1:1375:A:H2'	1:A1:1376:C:C6	2.07	0.88
29:B1:606:C:H2'	29:B1:607:A:N9	1.87	0.88
29:B1:774:G:C2'	29:B1:775:A:H5'	2.03	0.88
29:B1:1362:G:O2'	29:B1:1363:A:H5'	1.73	0.88
29:B1:2727:A:C6	29:B1:2728:G:O6	2.27	0.88
29:B1:3011:A:C8	29:B1:3012:A:H1'	2.07	0.88
29:B1:3218:A:O2'	29:B1:3219:G:O5'	1.91	0.88
29:B1:3308:C:H5	29:B1:3309:G:C2	1.92	0.88
30:B2:28:C:H5"	30:B2:29:C:OP2	1.74	0.88
29:D1:1023:C:H3'	29:D1:1024:G:H4'	1.55	0.88
29:D1:1297:C:H2'	29:D1:1298:C:H5'	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1628:C:H4'	29:D1:1630:U:H2'	1.53	0.88
29:D1:2370:G:C5	29:D1:2371:G:N7	2.41	0.88
29:D1:3063:C:H2'	29:D1:3064:U:H6	1.36	0.88
29:D1:3209:A:C2	29:D1:3210:A:C2	2.62	0.88
29:D1:3219:G:H8	29:D1:3257:C:OP1	1.56	0.88
30:D2:40:C:O2	42:DK:69:VAL:HA	1.72	0.88
46:DQ:154:GLU:HA	46:DQ:155:GLU:CB	2.04	0.88
1:A1:1055:U:O2	1:A1:1064:G:N2	2.06	0.88
1:A1:1348:A:O5'	1:A1:1348:A:H8	1.55	0.88
29:B1:11:A:H1'	29:B1:1557:A:N6	1.88	0.88
29:B1:1445:U:H5"	29:B1:1446:A:OP2	1.72	0.88
29:B1:1449:A:C2	29:B1:2356:A:C4	2.61	0.88
29:B1:2997:G:H1'	29:B1:2998:U:O5'	1.72	0.88
29:B1:3160:U:H3	29:B1:3290:G:H1	1.19	0.88
29:B1:3174:A:H1'	29:B1:3175:U:H5"	1.54	0.88
36:BE:97:ALA:HA	36:BE:100:ALA:CB	2.03	0.88
37:BF:56:LYS:CB	37:BF:63:LEU:HA	2.03	0.88
1:C1:328:A:H2'	1:C1:329:G:H8	1.38	0.88
1:C1:1616:G:H21	1:C1:1618:C:H41	1.12	0.88
29:D1:594:U:O4	29:D1:610:G:OP1	1.91	0.88
29:D1:1100:U:H2'	29:D1:1101:G:C8	2.09	0.88
29:D1:1193:A:N7	29:D1:1194:G:N1	2.21	0.88
29:D1:1224:C:H5"	29:D1:1225:A:OP2	1.73	0.88
31:D3:129:C:H2'	31:D3:130:C:C6	2.07	0.88
29:B1:534:U:H6	29:B1:534:U:O5'	1.54	0.88
29:B1:623:U:H2'	29:B1:624:G:H8	1.30	0.88
29:B1:1079:A:C6	29:B1:1080:A:C6	2.62	0.88
29:B1:3382:U:H3'	29:B1:3383:G:C4'	2.02	0.88
1:C1:1480:G:H8	1:C1:1480:G:C5'	1.85	0.88
29:D1:594:U:O2	29:D1:595:G:C4	2.26	0.88
29:D1:826:G:O2'	29:D1:1589:A:C8	2.25	0.88
29:D1:996:A:H2'	29:D1:997:A:O4'	1.74	0.88
29:D1:2851:A:H2'	29:D1:2852:C:O4'	1.71	0.88
29:D1:3392:U:C2	29:D1:3393:U:C4	2.62	0.88
31:D3:94:C:H4'	31:D3:95:G:OP2	1.71	0.88
1:A1:1007:C:H5"	1:A1:1008:G:OP2	1.73	0.88
1:A1:1434:U:O3'	1:A1:1435:G:H3'	1.72	0.88
1:A1:1558:U:C6	1:A1:1559:A:H5"	2.08	0.88
2:AA:146:LEU:HA	2:AA:160:ILE:HA	1.53	0.88
29:B1:407:A:C2	31:B3:17:A:H1'	2.08	0.88
29:B1:1100:U:H2'	29:B1:1101:G:C8	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1547:G:H2'	29:B1:1548:C:C6	2.08	0.88
1:C1:10:G:H5'	1:C1:1633:A:H3'	1.55	0.88
1:C1:518:A:H2'	1:C1:519:C:H5"	1.53	0.88
1:C1:1022:C:H4'	1:C1:1124:A:N6	1.89	0.88
1:C1:1481:C:H1'	1:C1:1482:C:O5'	1.73	0.88
1:C1:1763:A:C3'	1:C1:1764:C:H5"	2.03	0.88
29:D1:379:C:H6	29:D1:379:C:H5"	1.37	0.88
29:D1:407:A:C2	31:D3:17:A:H1'	2.09	0.88
29:D1:623:U:H2'	29:D1:624:G:C8	2.09	0.88
29:D1:2601:A:O2'	29:D1:2602:G:H5'	1.73	0.88
29:D1:2650:U:H5"	29:D1:2651:G:OP2	1.73	0.88
29:D1:2869:U:H5"	29:D1:2870:C:OP2	1.72	0.88
29:D1:3150:A:H3'	29:D1:3151:U:C5'	2.04	0.88
29:D1:3314:A:H5"	34:DC:119:TYR:H	1.39	0.88
1:A1:320:U:H4'	1:A1:321:C:OP1	1.72	0.88
1:A1:606:A:N7	1:A1:608:U:H5	1.71	0.88
1:A1:1174:C:H2'	1:A1:1175:U:C6	2.09	0.88
8:AG:51:GLY:HA2	8:AG:53:LEU:H	1.33	0.88
29:B1:53:G:H5'	29:B1:812:G:H4'	1.55	0.88
29:B1:1324:U:C5'	29:B1:1324:U:H6	1.86	0.88
29:B1:3201:C:OP2	29:B1:3201:C:O4'	1.91	0.88
31:B3:74:U:OP2	31:B3:76:C:C2	2.27	0.88
54:BY:137:LYS:O	54:BY:140:ALA:HB3	1.74	0.88
29:D1:156:G:C8	29:D1:157:A:H1'	2.08	0.88
29:D1:534:U:H6	29:D1:534:U:O5'	1.55	0.88
29:D1:1625:A:H3'	29:D1:1626:U:C5'	2.04	0.88
29:D1:1640:G:HO2'	29:D1:1641:U:H6	0.89	0.88
29:D1:2520:A:C4	29:D1:2521:U:N3	2.41	0.88
29:D1:2672:G:O3'	42:DK:105:GLY:HA2	1.74	0.88
29:D1:2807:U:O2'	29:D1:2808:A:H5"	1.73	0.88
29:D1:3322:A:H2'	29:D1:3323:A:H8	1.39	0.88
31:D3:19:C:H2'	31:D3:20:U:C6	2.07	0.88
1:A1:1271:G:H2'	1:A1:1272:U:C6	2.08	0.88
6:AE:62:ARG:H	6:AE:63:ASP:CB	1.86	0.88
29:B1:606:C:C2'	29:B1:607:A:C1'	2.52	0.88
29:B1:757:C:H2'	29:B1:757:C:O2	1.73	0.88
29:B1:1019:G:H1	29:B1:1033:U:H3	0.90	0.88
29:B1:1157:G:H2'	29:B1:1158:A:O4'	1.73	0.88
29:B1:2834:G:O2'	29:B1:2835:U:H6	1.56	0.88
31:B3:70:G:C8	31:B3:71:A:C6	2.62	0.88
40:BI:111:PHE:HA	40:BI:112:ILE:C	1.98	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:96:PHE:HA	47:BR:97:PRO:CB	2.01	0.88
1:C1:361:C:N3	1:C1:384:G:N2	2.22	0.88
1:C1:373:G:H2'	1:C1:374:U:C6	2.07	0.88
29:D1:150:A:H2'	29:D1:151:A:H8	1.38	0.88
29:D1:1063:G:H5'	29:D1:1098:A:P	2.13	0.88
29:D1:1180:A:C4	29:D1:1182:A:C8	2.62	0.88
29:D1:1288:U:O2'	29:D1:1289:G:H5"	1.73	0.88
29:D1:1547:G:H2'	29:D1:1548:C:C6	2.09	0.88
29:D1:2293:C:C5	29:D1:2294:U:H5	1.91	0.88
29:D1:3198:U:H3'	29:D1:3199:G:H8	1.36	0.88
29:D1:3352:U:H2'	29:D1:3354:U:H4'	1.56	0.88
37:DF:40:LEU:HA	37:DF:85:ILE:CB	2.04	0.88
1:A1:444:C:H42	1:A1:460:A:H62	1.22	0.88
1:A1:450:U:H2'	1:A1:451:A:C8	2.08	0.88
1:A1:1345:A:H2'	1:A1:1346:A:C5	2.09	0.88
29:B1:159:A:O2'	29:B1:160:G:H5'	1.74	0.88
29:B1:422:A:H1'	29:B1:423:A:H5"	1.55	0.88
29:B1:1440:G:H2'	29:B1:1441:G:H8	1.37	0.88
29:B1:2942:C:H6	29:B1:2942:C:H3'	1.38	0.88
29:B1:3242:G:C1'	29:B1:3246:G:H22	1.87	0.88
54:BY:131:SER:O	54:BY:133:LEU:N	2.06	0.88
1:C1:71:A:N3	1:C1:72:A:N7	2.22	0.88
1:C1:1110:G:H5'	1:C1:1110:G:C8	2.08	0.88
3:CB:219:GLY:O	3:CB:221:THR:N	2.05	0.88
29:D1:1378:U:H2'	29:D1:1379:G:C8	2.09	0.88
29:D1:1781:C:O2'	29:D1:1782:U:H5'	1.73	0.88
29:D1:2353:G:C5	29:D1:2354:C:C5	2.61	0.88
30:D2:23:A:H3'	30:D2:24:A:H8	1.37	0.88
5:AD:144:GLU:HA	5:AD:160:VAL:O	1.73	0.88
29:B1:126:U:HO2'	29:B1:127:G:H8	0.93	0.88
29:B1:750:G:H22	29:B1:784:A:C1'	1.86	0.88
29:B1:1152:G:H8	29:B1:1152:G:O5'	1.56	0.88
29:B1:1378:U:H2'	29:B1:1379:G:H8	1.35	0.88
29:B1:1640:G:O2'	29:B1:1641:U:H6	1.57	0.88
29:B1:1716:U:H3'	29:B1:1717:U:H4'	1.53	0.88
29:B1:1844:C:C2	29:B1:1845:G:C8	2.62	0.88
29:B1:2262:A:H3'	29:B1:2263:C:C5'	2.03	0.88
30:B2:14:U:C6	30:B2:14:U:O5'	2.27	0.88
31:B3:40:A:H5'	31:B3:40:A:C8	2.07	0.88
31:B3:69:U:C2	31:B3:70:G:H1'	2.09	0.88
36:BE:159:VAL:C	36:BE:161:GLY:H	1.81	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:190:C:H3'	1:C1:191:C:H5"	1.56	0.88
1:C1:316:A:H4'	1:C1:316:A:OP1	1.74	0.88
1:C1:955:A:H4'	1:C1:1074:G:O2'	1.73	0.88
1:C1:1764:C:OP1	1:C1:1771:U:H4'	1.73	0.88
1:C1:1771:U:H2'	1:C1:1772:C:H6	1.38	0.88
29:D1:43:A:N7	29:D1:2803:A:N6	2.22	0.88
29:D1:3056:U:C2	29:D1:3056:U:OP1	2.27	0.88
29:D1:3308:C:H5	29:D1:3309:G:C2	1.92	0.88
36:DE:134:ALA:HB3	36:DE:136:GLU:N	1.88	0.88
1:A1:93:A:C8	1:A1:398:G:H2'	2.09	0.87
1:A1:1222:C:H2'	1:A1:1223:A:H8	1.38	0.87
24:Ac:54:UNK:HA	24:Ac:63:UNK:N	1.89	0.87
29:B1:835:G:O2'	29:B1:857:G:N2	2.07	0.87
29:B1:951:A:C2'	29:B1:952:A:H5"	2.03	0.87
29:B1:3078:U:H4'	29:B1:3079:U:C5'	2.04	0.87
1:C1:555:A:OP2	1:C1:555:A:H3'	1.73	0.87
1:C1:1050:G:C4	1:C1:1051:G:H1'	2.08	0.87
5:CD:197:GLU:H	5:CD:200:ASN:H	1.21	0.87
29:D1:591:G:C2	29:D1:592:A:N9	2.42	0.87
29:D1:608:A:N6	29:D1:609:G:N7	2.21	0.87
31:D3:88:A:H2'	31:D3:89:A:C5	2.08	0.87
52:DW:69:SER:H	52:DW:72:ALA:HB3	1.39	0.87
1:A1:394:C:H42	1:A1:401:A:N6	1.72	0.87
1:A1:1487:A:H2'	1:A1:1488:G:H8	1.39	0.87
29:B1:155:G:N7	29:B1:157:A:C2	2.41	0.87
29:B1:342:A:N1	29:B1:349:A:C8	2.42	0.87
29:B1:1640:G:OP1	29:B1:1738:C:H5"	1.72	0.87
29:B1:1667:A:H2'	29:B1:1668:G:H8	1.36	0.87
29:B1:2655:U:H4'	29:B1:2656:A:C5'	2.04	0.87
29:B1:3222:U:H3	29:B1:3263:G:H1	1.22	0.87
30:B2:12:U:H5'	30:B2:68:C:O2'	1.73	0.87
31:B3:123:G:H5"	74:B3:206:OHX:N1	1.88	0.87
1:C1:250:C:C2	1:C1:251:A:N7	2.42	0.87
29:D1:404:G:C2	29:D1:405:U:H1'	2.09	0.87
29:D1:1441:G:H2'	29:D1:1442:U:C5'	2.04	0.87
29:D1:1778:G:H4'	29:D1:1779:C:N3	1.89	0.87
29:D1:3028:G:N2	29:D1:3029:A:N3	2.22	0.87
29:D1:3323:A:H4'	56:Da:13:THR:CB	2.04	0.87
31:D3:104:A:H5"	31:D3:105:A:H8	1.40	0.87
37:DF:86:ALA:HB1	37:DF:87:THR:HA	1.54	0.87
1:A1:528:U:H4'	1:A1:529:A:O5'	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1190:C:H4'	1:A1:1191:U:OP1	1.71	0.87
1:A1:1203:A:C2	1:A1:1556:A:H1'	2.08	0.87
1:A1:1575:G:N3	1:A1:1575:G:H2'	1.85	0.87
29:B1:717:C:N4	29:B1:721:G:H5'	1.89	0.87
29:B1:1186:G:H2'	29:B1:1187:C:C5'	2.04	0.87
29:B1:1255:C:C4	74:B1:3567:OHX:N2	2.42	0.87
29:B1:2306:C:H6	29:B1:2306:C:H3'	1.38	0.87
29:B1:3012:A:C2'	29:B1:3013:U:H5"	2.04	0.87
1:C1:973:A:H4'	29:D1:848:A:N3	1.89	0.87
1:C1:1375:A:H2'	1:C1:1376:C:C6	2.08	0.87
6:CE:62:ARG:H	6:CE:63:ASP:CB	1.86	0.87
29:D1:158:G:N7	29:D1:159:A:H1'	1.89	0.87
29:D1:323:A:C8	29:D1:324:A:N7	2.41	0.87
29:D1:608:A:C8	29:D1:608:A:H3'	2.10	0.87
29:D1:829:U:H4'	29:D1:866:A:C2	2.08	0.87
29:D1:1317:A:O2'	29:D1:1318:A:H3'	1.73	0.87
29:D1:3041:U:O2'	29:D1:3042:U:H5'	1.74	0.87
31:D3:40:A:H8	31:D3:40:A:H5'	1.39	0.87
36:DE:199:ILE:O	36:DE:201:GLY:HA2	1.74	0.87
42:DK:27:GLY:HA2	42:DK:29:ARG:H	1.39	0.87
1:A1:380:U:H2'	1:A1:381:C:C6	2.09	0.87
1:A1:1763:A:OP2	1:A1:1768:G:OP2	1.91	0.87
29:B1:366:A:N6	29:B1:367:A:C2	2.42	0.87
29:B1:405:U:C5	29:B1:406:G:C5	2.62	0.87
29:B1:1190:A:C2	29:B1:1191:U:H6	1.92	0.87
30:B2:13:A:C2	30:B2:13:A:O5'	2.28	0.87
37:BF:2:SER:O	38:BG:79:ALA:HB3	1.74	0.87
40:BI:63:LYS:HA	40:BI:66:ALA:HB3	1.56	0.87
1:C1:888:U:H5"	1:C1:889:U:OP2	1.73	0.87
1:C1:1661:U:H2'	1:C1:1662:G:C8	2.08	0.87
29:D1:327:A:H2	29:D1:328:U:C4	1.93	0.87
29:D1:726:G:N1	29:D1:727:G:C6	2.42	0.87
29:D1:1164:G:H2'	29:D1:1165:A:H8	1.40	0.87
29:D1:2271:A:H2'	29:D1:2272:G:C5'	2.05	0.87
29:D1:3151:U:OP2	29:D1:3152:U:OP1	1.92	0.87
29:D1:3190:C:H42	29:D1:3202:G:H1	1.22	0.87
34:DC:153:LYS:CB	34:DC:155:ALA:HB2	2.04	0.87
1:A1:1141:G:H3'	1:A1:1142:A:C5'	2.05	0.87
1:A1:1204:A:OP1	1:A1:1204:A:H4'	1.74	0.87
29:B1:515:C:H3'	29:B1:516:A:C5'	2.04	0.87
29:B1:618:C:C2'	29:B1:619:A:H8	1.85	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2702:A:C8	29:B1:2704:A:N6	2.43	0.87
30:B2:11:A:H2	36:BE:16:PHE:HA	1.37	0.87
38:BG:69:ALA:HB1	38:BG:75:TYR:H	1.38	0.87
1:C1:417:A:H8	1:C1:417:A:O5'	1.55	0.87
9:CH:60:ALA:O	9:CH:63:ALA:HB3	1.75	0.87
29:D1:641:C:O2'	29:D1:642:U:OP1	1.93	0.87
29:D1:726:G:C2	29:D1:727:G:C6	2.62	0.87
29:D1:884:A:N7	29:D1:2139:A:C4	2.42	0.87
29:D1:2253:G:O6	29:D1:2263:C:N4	2.07	0.87
29:D1:3090:U:C6	29:D1:3090:U:C5'	2.57	0.87
50:DU:133:SER:O	50:DU:135:VAL:N	2.06	0.87
1:A1:836:U:H2'	1:A1:837:G:H8	1.40	0.87
29:B1:414:U:O2'	29:B1:415:G:H5'	1.74	0.87
29:B1:942:U:OP1	29:B1:1434:G:N7	2.06	0.87
29:B1:1062:A:O2'	29:B1:1063:G:OP1	1.92	0.87
29:B1:2990:G:H2'	29:B1:2991:A:H5'	1.55	0.87
31:B3:40:A:C2'	31:B3:41:A:H8	1.87	0.87
31:B3:63:G:N2	31:B3:98:U:O2	2.08	0.87
34:BC:161:LEU:HA	34:BC:179:ALA:O	1.75	0.87
1:C1:93:A:C8	1:C1:398:G:H2'	2.09	0.87
1:C1:283:U:H2'	1:C1:284:G:O4'	1.75	0.87
1:C1:1022:C:H4'	1:C1:1124:A:H61	1.38	0.87
1:C1:1291:G:N2	1:C1:1324:G:H1	1.72	0.87
6:CE:123:HIS:O	6:CE:125:ALA:N	2.07	0.87
29:D1:720:A:C8	29:D1:720:A:O5'	2.28	0.87
29:D1:2699:G:H5'	29:D1:2699:G:H8	1.40	0.87
1:A1:1626:U:C2'	1:A1:1627:U:H5'	2.05	0.87
29:B1:592:A:OP2	29:B1:592:A:H8	1.56	0.87
29:B1:1139:G:H8	29:B1:1139:G:C5'	1.87	0.87
29:B1:3316:A:H61	29:B1:3388:C:N4	1.73	0.87
1:C1:404:G:H2'	1:C1:405:C:H6	1.39	0.87
1:C1:1578:U:O2'	1:C1:1579:U:H5'	1.75	0.87
29:D1:1186:G:C2'	29:D1:1187:C:H5'	2.02	0.87
29:D1:3262:U:H2'	29:D1:3263:G:H8	1.39	0.87
29:D1:3315:G:O2'	29:D1:3316:A:C8	2.27	0.87
29:B1:523:A:H2'	29:B1:524:U:H5'	1.54	0.87
29:B1:834:U:H5"	29:B1:834:U:C6	2.10	0.87
29:B1:1792:C:O3'	29:B1:1793:C:H3'	1.72	0.87
29:B1:2966:G:O2'	29:B1:2967:A:H5'	1.73	0.87
29:B1:3105:U:H5	29:B1:3128:G:H21	1.22	0.87
1:C1:861:U:C5	1:C1:862:A:C8	2.63	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:504:A:H2	29:D1:587:U:H3	1.12	0.87
29:D1:636:C:C5	29:D1:2378:C:O4'	2.27	0.87
29:D1:726:G:H1'	29:D1:744:A:N1	1.89	0.87
29:D1:993:G:N3	29:D1:2637:A:H2'	1.90	0.87
29:D1:1191:U:O2	29:D1:1191:U:C2'	2.21	0.87
29:D1:3218:A:C2'	29:D1:3219:G:H3'	2.04	0.87
36:DE:223:PHE:C	36:DE:225:GLY:HA3	2.00	0.87
44:DO:185:ALA:O	44:DO:187:ARG:HA	1.74	0.87
54:DY:111:LYS:HA	54:DY:128:ARG:CB	2.04	0.87
1:A1:93:A:C4	1:A1:399:A:C2	2.62	0.87
1:A1:1221:A:H2'	1:A1:1222:C:C6	2.09	0.87
29:B1:585:A:H5"	29:B1:586:C:OP2	1.73	0.87
29:B1:609:G:H3'	29:B1:609:G:P	2.14	0.87
29:B1:2888:U:C5	29:B1:2910:A:C6	2.63	0.87
29:B1:3225:C:H42	29:B1:3261:C:N4	1.73	0.87
29:B1:3330:A:H2'	29:B1:3331:U:H6	1.36	0.87
31:B3:81:U:H3'	31:B3:82:U:H5"	1.57	0.87
31:B3:92:A:H2'	31:B3:93:U:H5'	1.57	0.87
42:BK:27:GLY:HA2	42:BK:29:ARG:H	1.39	0.87
1:C1:594:A:H4'	1:C1:595:G:H5'	1.54	0.87
1:C1:869:A:H2'	1:C1:870:C:O4'	1.73	0.87
1:C1:1100:G:C4'	1:C1:1101:G:OP1	2.21	0.87
1:C1:1491:U:H5"	1:C1:1492:A:H3'	1.57	0.87
29:D1:187:A:H1'	29:D1:211:A:N6	1.89	0.87
29:D1:2834:G:C4	29:D1:2835:U:C5	2.63	0.87
1:A1:8:U:C5	1:A1:1140:G:O6	2.28	0.86
29:B1:518:G:H22	29:B1:572:A:N6	1.70	0.86
29:B1:1236:G:H3'	29:B1:1237:G:H4'	1.56	0.86
29:B1:1508:C:OP2	29:B1:1509:A:OP2	1.91	0.86
29:B1:1625:A:H3'	29:B1:1626:U:C5'	2.05	0.86
29:B1:1678:G:H2'	29:B1:1679:A:H8	1.40	0.86
29:B1:2888:U:C4	29:B1:2910:A:C2	2.63	0.86
29:B1:3352:U:H2'	29:B1:3354:U:H4'	1.56	0.86
32:BA:178:VAL:O	32:BA:182:GLN:CB	2.23	0.86
44:BO:185:ALA:O	44:BO:187:ARG:HA	1.75	0.86
1:C1:162:A:H3'	1:C1:163:G:C8	2.10	0.86
1:C1:407:A:H2'	1:C1:408:C:H6	1.39	0.86
29:D1:315:C:C2	29:D1:316:U:C5	2.62	0.86
29:D1:720:A:O5'	29:D1:720:A:H8	1.58	0.86
29:D1:727:G:N2	29:D1:741:U:H3	1.71	0.86
38:DG:49:ALA:O	38:DG:51:TYR:N	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DN:23:ILE:C	43:DN:32:LEU:HA	2.00	0.86
1:A1:151:G:H1	1:A1:163:G:N2	1.72	0.86
1:A1:228:G:C2	1:A1:229:U:C2	2.63	0.86
1:A1:811:A:HO2'	1:A1:858:G:H8	1.23	0.86
1:A1:1221:A:H2'	1:A1:1222:C:H6	1.40	0.86
11:AJ:93:HIS:CB	11:AJ:94:GLN:HA	2.06	0.86
13:AL:96:LYS:CB	13:AL:97:ASP:HA	2.05	0.86
29:B1:190:U:C5	29:B1:224:C:H1'	2.09	0.86
29:B1:745:C:N4	29:B1:746:A:N6	2.22	0.86
29:B1:1680:G:N3	29:B1:1681:U:C6	2.44	0.86
29:B1:2293:C:H5	29:B1:2294:U:H5	1.20	0.86
1:C1:59:C:C6	1:C1:62:A:N6	2.42	0.86
1:C1:267:U:H2'	1:C1:267:U:O2	1.72	0.86
29:D1:754:G:N2	29:D1:778:U:H3	1.71	0.86
29:D1:828:A:H5"	29:D1:829:U:OP2	1.75	0.86
29:D1:952:A:H1'	29:D1:1114:U:O2'	1.74	0.86
29:D1:1257:C:H2'	29:D1:1257:C:O2	1.73	0.86
29:D1:3160:U:H3	29:D1:3290:G:H1	1.20	0.86
29:D1:3176:G:H2'	29:D1:3177:G:C5'	2.05	0.86
29:D1:3316:A:N6	29:D1:3320:A:N1	2.21	0.86
29:D1:3330:A:H2'	29:D1:3331:U:H6	1.40	0.86
59:Dd:37:CYS:N	74:Dd:101:OHX:N5	2.23	0.86
1:A1:33:U:H1'	1:A1:468:A:C2	2.10	0.86
1:A1:267:U:O2	1:A1:267:U:H2'	1.72	0.86
1:A1:288:A:N3	1:A1:289:U:H5	1.73	0.86
1:A1:452:A:H2'	1:A1:453:U:C5'	2.04	0.86
1:A1:609:U:H5"	1:A1:610:G:N7	1.90	0.86
1:A1:1250:U:N3	1:A1:1251:U:C4	2.44	0.86
1:A1:1274:C:H6	1:A1:1427:A:H62	1.19	0.86
1:A1:1480:G:H5'	1:A1:1480:G:C8	2.09	0.86
1:A1:1678:A:H2	1:A1:1725:U:H3	1.17	0.86
29:B1:31:C:C2'	29:B1:32:U:H5'	2.05	0.86
29:B1:859:G:N2	29:B1:861:C:H1'	1.91	0.86
29:B1:936:A:H5"	29:B1:937:G:OP1	1.75	0.86
56:Ba:14:ILE:H	56:Ba:72:ARG:H	1.19	0.86
1:C1:782:U:H4'	1:C1:783:G:O5'	1.75	0.86
29:D1:688:G:H1'	29:D1:692:A:H61	1.39	0.86
29:D1:1178:G:H2'	29:D1:1179:A:H5'	1.57	0.86
29:D1:1621:A:H2'	29:D1:1622:U:C6	2.09	0.86
1:A1:28:A:H2'	1:A1:29:U:C6	2.11	0.86
1:A1:415:C:O2	1:A1:418:G:N1	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1481:C:H1'	1:A1:1482:C:O5'	1.76	0.86
29:B1:417:A:H2'	29:B1:418:A:H8	1.40	0.86
29:B1:688:G:H1'	29:B1:692:A:H61	1.40	0.86
29:B1:1154:A:H5'	29:B1:1155:C:H5	1.39	0.86
29:B1:1640:G:C4	29:B1:1641:U:C5	2.63	0.86
47:BR:45:ASN:O	47:BR:46:LYS:C	2.18	0.86
1:C1:450:U:H2'	1:C1:451:A:C8	2.11	0.86
1:C1:973:A:H1'	29:D1:847:A:C2	2.09	0.86
1:C1:976:G:H5"	1:C1:977:A:OP1	1.74	0.86
1:C1:1161:C:H1'	1:C1:1620:C:N4	1.90	0.86
5:CD:63:GLN:C	5:CD:92:ARG:HA	1.99	0.86
29:D1:606:C:H2'	29:D1:607:A:N9	1.90	0.86
29:D1:1190:A:H2	29:D1:1191:U:H6	1.23	0.86
29:D1:1303:A:C2	29:D1:2887:A:C6	2.63	0.86
29:D1:1442:U:H6	29:D1:1442:U:H5'	1.40	0.86
29:D1:3334:U:H5'	29:D1:3371:G:H21	1.39	0.86
31:D3:81:U:H3'	31:D3:82:U:H5"	1.58	0.86
1:A1:526:A:N3	1:A1:526:A:H2'	1.88	0.86
1:A1:763:G:H2'	1:A1:764:U:C6	2.10	0.86
1:A1:1047:G:H1	1:A1:1071:U:H3	0.88	0.86
1:A1:1684:U:H3'	1:A1:1684:U:O2	1.74	0.86
29:B1:41:G:C8	29:B1:42:C:C5	2.62	0.86
29:B1:285:A:H2	29:B1:304:G:O3'	1.58	0.86
29:B1:2689:A:H4'	29:B1:2690:G:H5'	1.56	0.86
29:B1:3064:U:O2'	29:B1:3065:G:H5'	1.76	0.86
29:B1:3218:A:C2'	29:B1:3219:G:H3'	2.05	0.86
31:B3:55:U:H3	31:B3:62:C:H41	1.22	0.86
37:BF:92:SER:O	37:BF:94:GLU:N	2.08	0.86
1:C1:126:A:N1	1:C1:292:U:H1'	1.90	0.86
1:C1:1444:A:H5'	1:C1:1446:A:N7	1.90	0.86
29:D1:282:G:H3'	29:D1:282:G:P	2.16	0.86
29:D1:394:G:H1	29:D1:397:A:H5"	1.39	0.86
29:D1:517:G:C8	29:D1:517:G:OP2	2.27	0.86
29:D1:1782:U:H2'	29:D1:1783:U:O4'	1.76	0.86
29:D1:2143:A:C2'	29:D1:2144:A:H5'	2.05	0.86
31:D3:138:A:H2	31:D3:139:U:C2	1.93	0.86
43:DN:26:GLY:O	43:DN:27:GLN:O	1.94	0.86
1:A1:14:C:P	3:AB:161:LYS:O	2.34	0.86
1:A1:1375:A:H2'	1:A1:1376:C:N1	1.89	0.86
15:AN:22:ILE:HA	15:AN:118:VAL:HA	1.54	0.86
29:B1:659:G:N1	29:B1:1432:C:O2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1781:C:O2'	29:B1:1782:U:H5'	1.74	0.86
29:B1:2667:A:N3	29:B1:2667:A:C3'	2.37	0.86
31:B3:94:C:H4'	31:B3:95:G:OP2	1.74	0.86
1:C1:825:U:O4	1:C1:847:A:N6	2.07	0.86
1:C1:1350:U:OP2	1:C1:1351:G:C8	2.28	0.86
29:D1:2361:A:N6	29:D1:2377:G:O6	2.08	0.86
36:DE:128:GLU:CB	36:DE:129:TYR:HA	2.06	0.86
41:DJ:93:PRO:HA	41:DJ:127:ALA:HB2	1.58	0.86
45:DP:18:ARG:C	45:DP:20:ALA:H	1.80	0.86
29:B1:828:A:H5"	29:B1:829:U:OP2	1.74	0.86
29:B1:1023:C:H3'	29:B1:1024:G:H4'	1.56	0.86
29:B1:1193:A:N7	29:B1:1194:G:N1	2.23	0.86
29:B1:2684:C:C6	29:B1:2684:C:C5'	2.47	0.86
29:B1:2714:G:C8	29:B1:2716:U:C6	2.64	0.86
65:Bk:11:UNK:O	65:Bk:12:UNK:C	2.24	0.86
1:C1:515:A:OP2	74:C1:1933:OHX:N2	2.09	0.86
1:C1:1073:G:C6	1:C1:1074:G:C6	2.63	0.86
1:C1:1244:A:H2'	1:C1:1244:A:N3	1.88	0.86
1:C1:1558:U:H6	1:C1:1559:A:H5"	1.41	0.86
29:D1:1193:A:C8	29:D1:1194:G:C2	2.64	0.86
31:D3:139:U:H2'	31:D3:140:G:H8	1.41	0.86
1:A1:173:A:N1	1:A1:174:U:H1'	1.91	0.86
29:B1:405:U:O4	29:B1:406:G:C2	2.28	0.86
29:B1:501:A:N6	29:B1:502:U:O4	2.09	0.86
29:B1:775:A:C3'	29:B1:776:U:H4'	2.05	0.86
29:B1:1658:G:H2'	29:B1:1659:U:H6	1.41	0.86
31:B3:139:U:H2'	31:B3:140:G:H8	1.40	0.86
1:C1:1000:C:H5	1:C1:1003:A:OP2	1.57	0.86
17:CP:132:LEU:N	17:CP:133:LEU:HA	1.89	0.86
29:D1:53:G:H5'	29:D1:812:G:H4'	1.57	0.86
29:D1:116:A:C2	29:D1:265:A:OP2	2.28	0.86
29:D1:535:G:H3'	29:D1:536:U:H5	1.39	0.86
29:D1:580:C:C2	29:D1:581:U:H5	1.92	0.86
29:D1:1294:A:H8	29:D1:1294:A:H5"	1.41	0.86
29:D1:3102:G:H8	29:D1:3102:G:H5'	1.39	0.86
30:D2:9:C:C2'	30:D2:13:A:H62	1.86	0.86
1:A1:555:A:H2	1:A1:556:A:C2	1.94	0.86
1:A1:976:G:H5"	1:A1:977:A:OP1	1.76	0.86
1:A1:1487:A:H2'	1:A1:1488:G:C8	2.10	0.86
29:B1:39:A:C8	29:B1:41:G:OP2	2.28	0.86
29:B1:432:G:H2'	29:B1:433:A:C8	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:556:U:H2'	29:B1:557:A:H1'	1.58	0.86
29:B1:1507:G:H8	29:B1:1507:G:OP2	1.58	0.86
29:B1:1623:G:O6	29:B1:1822:C:N4	2.07	0.86
29:B1:3085:G:H5'	29:B1:3331:U:OP1	1.75	0.86
29:B1:3313:U:O2'	29:B1:3314:A:C8	2.28	0.86
29:B1:3392:U:N3	29:B1:3393:U:O4	2.07	0.86
30:B2:97:A:H2'	30:B2:98:C:C6	2.10	0.86
32:BA:154:THR:HA	32:BA:155:ILE:O	1.76	0.86
43:BN:48:GLY:C	43:BN:50:LYS:HA	2.00	0.86
1:C1:520:A:H2'	1:C1:521:A:C8	2.09	0.86
1:C1:521:A:H4'	1:C1:522:U:OP1	1.75	0.86
1:C1:972:G:N2	29:D1:846:A:H61	1.71	0.86
29:D1:559:A:C4	29:D1:560:G:N7	2.43	0.86
29:D1:1130:A:H2'	29:D1:1132:C:C6	2.09	0.86
29:D1:2270:A:H5"	29:D1:2270:A:H8	1.37	0.86
29:D1:3198:U:C3'	29:D1:3199:G:H8	1.88	0.86
29:D1:3391:A:C2	29:D1:3392:U:C6	2.63	0.86
1:A1:112:A:H4'	1:A1:113:U:OP1	1.76	0.86
1:A1:1263:G:C2	1:A1:1264:G:H1'	2.10	0.86
1:A1:1756:A:N6	74:A1:1901:OHX:N5	2.23	0.86
13:AL:37:GLY:HA3	13:AL:102:ALA:HA	1.55	0.86
29:B1:43:A:H62	29:B1:2802:A:H2	1.23	0.86
29:B1:210:U:H3	35:BD:162:THR:H	1.20	0.86
29:B1:404:G:C2	29:B1:405:U:H1'	2.11	0.86
29:B1:1194:G:C4	29:B1:1309:U:O2	2.29	0.86
29:B1:1383:G:H4'	35:BD:241:GLY:HA2	1.55	0.86
29:B1:2132:C:H5'	29:B1:2132:C:H6	1.39	0.86
29:B1:2379:U:H2'	29:B1:2380:U:H6	1.38	0.86
29:B1:3135:U:C5	29:B1:3136:G:C5	2.64	0.86
1:C1:979:A:C2	1:C1:1775:U:H4'	2.09	0.86
13:CL:121:ALA:HB3	13:CL:124:GLY:HA3	1.55	0.86
29:D1:354:U:H2'	29:D1:354:U:O2	1.76	0.86
29:D1:542:G:H2'	29:D1:543:C:C6	2.11	0.86
29:D1:2131:A:C2'	29:D1:2132:C:H5"	2.05	0.86
29:D1:2350:C:H4'	29:D1:3308:C:O2'	1.76	0.86
29:D1:3313:U:O2'	29:D1:3314:A:C8	2.29	0.86
1:A1:121:U:H2'	1:A1:122:U:O4'	1.76	0.85
1:A1:533:U:H3'	1:A1:534:A:H8	1.41	0.85
1:A1:643:G:N2	1:A1:692:C:C2	2.44	0.85
1:A1:1138:A:C2	1:A1:1139:A:C5	2.64	0.85
1:A1:1274:C:OP2	1:A1:1428:G:P	2.34	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:71:PHE:O	6:AE:75:ALA:HB2	1.76	0.85
17:AP:132:LEU:N	17:AP:133:LEU:HA	1.91	0.85
29:B1:776:U:H3'	29:B1:777:U:C5'	2.04	0.85
29:B1:1129:A:N6	29:B1:1130:A:N6	2.24	0.85
29:B1:2259:A:H3'	29:B1:2260:U:C6	2.11	0.85
29:B1:3201:C:C2	29:B1:3202:G:C8	2.64	0.85
30:B2:41:G:H5'	30:B2:42:A:OP2	1.76	0.85
34:BC:106:TRP:C	34:BC:108:GLU:N	2.30	0.85
1:C1:847:A:H2'	1:C1:848:C:C5'	2.05	0.85
1:C1:1274:C:OP2	1:C1:1428:G:O5'	1.94	0.85
29:D1:969:C:H5"	29:D1:970:A:OP2	1.76	0.85
29:D1:1440:G:H2'	29:D1:1441:G:H8	1.40	0.85
29:D1:1495:U:H2'	29:D1:1842:A:C2	2.12	0.85
29:D1:3264:G:C3'	29:D1:3265:C:H5"	2.06	0.85
29:D1:3393:U:O2'	29:D1:3394:U:H5'	1.75	0.85
31:D3:40:A:C2'	31:D3:41:A:H8	1.87	0.85
1:A1:71:A:N3	1:A1:72:A:N7	2.24	0.85
1:A1:1458:G:C5'	1:A1:1459:C:C5	2.51	0.85
1:A1:1591:C:H2'	1:A1:1592:A:C8	2.11	0.85
29:B1:158:G:N7	29:B1:159:A:H1'	1.91	0.85
29:B1:382:U:H2'	29:B1:383:G:H4'	1.55	0.85
29:B1:1448:U:H5	29:B1:2355:G:N2	1.72	0.85
29:B1:3189:G:H2'	29:B1:3190:C:H6	1.40	0.85
29:B1:3212:C:N3	29:B1:3213:A:H2	1.74	0.85
1:C1:54:C:H2'	1:C1:55:A:H5'	1.57	0.85
29:D1:591:G:H21	29:D1:592:A:C1'	1.85	0.85
29:D1:743:C:H2'	29:D1:744:A:C5'	2.01	0.85
29:D1:750:G:H22	29:D1:784:A:H1'	1.40	0.85
29:D1:937:G:H22	29:D1:960:U:C5'	1.87	0.85
29:D1:1383:G:H4'	35:DD:241:GLY:CA	2.06	0.85
29:D1:2270:A:H2'	29:D1:2271:A:C8	2.10	0.85
29:D1:3219:G:C2	29:D1:3258:U:OP2	2.29	0.85
31:D3:55:U:H3	31:D3:62:C:H41	1.24	0.85
1:A1:225:A:H61	1:A1:836:U:H3	1.20	0.85
1:A1:1542:G:OP2	1:A1:1542:G:H8	1.59	0.85
1:A1:1722:A:H8	1:A1:1723:U:C6	1.94	0.85
28:Ah:21:UNK:CA	28:Ah:25:UNK:HA	2.05	0.85
29:B1:122:A:H2'	29:B1:123:A:H8	1.40	0.85
29:B1:425:G:C8	29:B1:425:G:H5"	2.10	0.85
29:B1:781:G:H2'	29:B1:782:U:H5'	1.55	0.85
29:B1:2205:U:H2'	29:B1:2206:G:H5'	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2689:A:N3	29:B1:2702:A:H2	1.74	0.85
29:B1:2932:U:C6	29:B1:2935:U:H5	1.93	0.85
30:B2:61:G:H2'	30:B2:62:U:C6	2.11	0.85
37:BF:136:GLU:C	37:BF:138:GLN:H	1.84	0.85
1:C1:33:U:H1'	1:C1:468:A:C2	2.11	0.85
1:C1:468:A:N6	1:C1:595:G:C5	2.44	0.85
1:C1:1378:U:H5'	1:C1:1379:C:H6	1.40	0.85
1:C1:1420:C:H5	1:C1:1421:A:C8	1.90	0.85
1:C1:1435:G:H4'	1:C1:1436:A:OP2	1.76	0.85
29:D1:155:G:P	29:D1:155:G:H8	1.97	0.85
29:D1:592:A:H2'	29:D1:593:C:C3'	2.06	0.85
29:D1:607:A:C8	29:D1:607:A:OP2	2.29	0.85
29:D1:1065:A:H1'	29:D1:1093:A:H61	1.40	0.85
29:D1:1661:G:H4'	29:D1:1661:G:OP1	1.73	0.85
29:D1:2942:C:H6	29:D1:2942:C:H3'	1.40	0.85
38:DG:69:ALA:CB	38:DG:75:TYR:H	1.90	0.85
1:A1:357:G:C4	1:A1:358:U:C5	2.65	0.85
1:A1:402:C:H2'	1:A1:403:G:C5'	2.05	0.85
1:A1:618:U:H5"	1:A1:1030:A:C2	2.12	0.85
1:A1:1291:G:N2	1:A1:1324:G:H1	1.73	0.85
1:A1:1646:C:H2'	1:A1:1646:C:O2	1.74	0.85
6:AE:82:ARG:C	6:AE:84:GLY:H	1.84	0.85
29:B1:512:U:C2	29:B1:579:G:N1	2.44	0.85
29:B1:826:G:HO2'	29:B1:1589:A:H8	1.22	0.85
29:B1:1782:U:H2'	29:B1:1783:U:O4'	1.75	0.85
29:B1:2113:A:H2'	29:B1:2114:C:C5'	2.06	0.85
29:B1:2353:G:C6	29:B1:2354:C:C5	2.64	0.85
29:B1:2808:A:N7	29:B1:2955:U:H4'	1.91	0.85
29:B1:3000:A:H2'	29:B1:3001:C:C6	2.11	0.85
29:B1:3315:G:O2'	29:B1:3316:A:C8	2.30	0.85
74:B1:3492:OHX:N5	54:BY:20:GLY:HA2	1.92	0.85
31:B3:8:C:H2'	31:B3:9:A:H8	1.38	0.85
1:C1:606:A:H4'	1:C1:607:G:H3'	1.58	0.85
1:C1:895:G:H2'	1:C1:896:U:O4'	1.75	0.85
6:CE:66:ASP:C	6:CE:68:LYS:H	1.80	0.85
9:CH:70:LYS:O	9:CH:73:GLU:CB	2.25	0.85
29:D1:118:U:H3	29:D1:150:A:N6	1.73	0.85
29:D1:618:C:C2	29:D1:619:A:N7	2.44	0.85
29:D1:847:A:H2'	29:D1:848:A:C8	2.09	0.85
29:D1:896:A:H62	29:D1:2133:U:H3	1.23	0.85
29:D1:2395:G:H2'	29:D1:2396:G:H5'	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2808:A:N7	29:D1:2955:U:H4'	1.91	0.85
29:D1:2889:C:O2'	29:D1:2890:A:H5'	1.77	0.85
1:A1:521:A:H4'	1:A1:522:U:OP1	1.76	0.85
1:A1:612:U:H4'	1:A1:1099:U:C5	2.11	0.85
1:A1:1634:C:H2'	1:A1:1634:C:O2	1.75	0.85
29:B1:70:A:C2	29:B1:71:A:O2'	2.29	0.85
29:B1:1621:A:H2'	29:B1:1622:U:C6	2.11	0.85
29:B1:3219:G:H8	29:B1:3257:C:OP1	1.57	0.85
29:B1:3301:U:C2	29:B1:3301:U:OP1	2.30	0.85
31:B3:19:C:C5	31:B3:20:U:H5	1.94	0.85
1:C1:313:U:C5	1:C1:1118:G:C2	2.64	0.85
1:C1:335:U:H3'	1:C1:336:G:H8	1.40	0.85
1:C1:1030:A:H3'	1:C1:1031:U:H5'	1.58	0.85
1:C1:1163:A:N6	1:C1:1164:G:C6	2.45	0.85
1:C1:1280:C:H2'	1:C1:1281:G:H8	1.41	0.85
1:C1:1584:G:N3	11:CJ:124:PRO:HA	1.91	0.85
1:C1:1678:A:H2	1:C1:1725:U:H3	1.20	0.85
29:D1:836:A:H1'	29:D1:858:A:C2	2.11	0.85
29:D1:1286:A:H4'	29:D1:1287:A:OP1	1.75	0.85
29:D1:1528:G:H2'	29:D1:1529:A:H8	1.42	0.85
29:D1:2167:A:H2'	29:D1:2168:A:C8	2.11	0.85
30:D2:61:G:H2'	30:D2:62:U:C6	2.11	0.85
1:A1:1139:A:H2'	1:A1:1140:G:O5'	1.75	0.85
29:B1:140:C:H2'	29:B1:141:C:C6	2.12	0.85
29:B1:518:G:OP2	29:B1:518:G:C8	2.28	0.85
29:B1:576:C:C2'	29:B1:577:C:C5'	2.52	0.85
29:B1:743:C:H2'	29:B1:744:A:C5'	2.01	0.85
29:B1:992:A:N1	29:B1:993:G:N7	2.24	0.85
29:B1:1176:C:H5"	29:B1:1177:G:H5"	1.56	0.85
29:B1:2608:G:H2'	29:B1:2609:A:H8	1.41	0.85
31:B3:70:G:H5'	31:B3:71:A:C8	2.09	0.85
57:Bb:72:LYS:CB	57:Bb:92:TYR:HA	2.05	0.85
1:C1:193:U:H4'	1:C1:194:U:OP2	1.74	0.85
1:C1:1791:A:O2'	1:C1:1793:G:H5'	1.76	0.85
5:CD:144:GLU:HA	5:CD:160:VAL:O	1.76	0.85
29:D1:284:A:H62	29:D1:2785:A:H4'	1.42	0.85
29:D1:723:U:H2'	29:D1:724:U:H5'	1.58	0.85
29:D1:775:A:C3'	29:D1:776:U:H4'	2.07	0.85
29:D1:2714:G:C8	29:D1:2716:U:C6	2.65	0.85
30:D2:46:A:N3	30:D2:46:A:O5'	2.10	0.85
1:A1:842:C:H2'	1:A1:843:U:C6	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1728:A:H2'	1:A1:1729:C:H6	1.38	0.85
29:B1:2136:C:H5'	29:B1:2137:U:OP2	1.76	0.85
29:B1:2381:G:O2'	29:B1:2382:G:H5'	1.76	0.85
29:B1:2680:A:N6	42:BK:56:THR:O	2.09	0.85
45:BP:99:LEU:O	45:BP:101:ARG:N	2.10	0.85
1:C1:606:A:C8	1:C1:608:U:H5	1.94	0.85
1:C1:883:C:H42	1:C1:945:U:H3	1.24	0.85
29:D1:1128:U:H2'	29:D1:1128:U:O2	1.77	0.85
29:D1:1580:A:H3'	29:D1:1581:C:C5'	2.07	0.85
29:D1:1687:U:O3'	29:D1:1688:U:H4'	1.77	0.85
30:D2:25:G:C5	30:D2:26:C:N4	2.44	0.85
1:A1:1784:C:H2'	1:A1:1785:U:H6	1.41	0.85
29:B1:257:U:H2'	29:B1:258:G:H8	1.38	0.85
29:B1:1072:G:H2'	29:B1:1073:U:C6	2.11	0.85
29:B1:2120:A:O2'	29:B1:2121:G:O5'	1.94	0.85
29:B1:2287:C:O2	29:B1:2298:U:O4'	1.95	0.85
29:B1:3264:G:C2'	29:B1:3265:C:H5"	2.06	0.85
29:B1:3333:G:H1	29:B1:3370:A:HO2'	1.24	0.85
30:B2:114:U:H5'	30:B2:115:G:OP2	1.75	0.85
31:B3:19:C:H2'	31:B3:20:U:C6	2.10	0.85
1:C1:1222:C:H2'	1:C1:1223:A:C8	2.11	0.85
1:C1:1274:C:OP2	1:C1:1428:G:OP1	1.95	0.85
29:D1:580:C:N3	29:D1:581:U:H5	1.74	0.85
29:D1:819:U:H2'	29:D1:820:A:H8	1.40	0.85
29:D1:1640:G:OP1	29:D1:1738:C:H5"	1.77	0.85
29:D1:2279:A:O5'	29:D1:2280:A:H5"	1.77	0.85
29:D1:2306:C:H6	29:D1:2306:C:H3'	1.42	0.85
29:D1:2847:A:H3'	29:D1:2848:G:H8	1.42	0.85
29:D1:2932:U:C6	29:D1:2935:U:H5	1.95	0.85
43:DN:48:GLY:C	43:DN:50:LYS:HA	2.02	0.85
1:A1:888:U:H5"	1:A1:889:U:OP2	1.76	0.85
1:A1:1458:G:N3	1:A1:1458:G:H2'	1.90	0.85
29:B1:116:A:C2	29:B1:265:A:OP2	2.30	0.85
29:B1:323:A:C8	29:B1:324:A:N7	2.44	0.85
29:B1:824:C:H2'	29:B1:825:U:C6	2.12	0.85
29:B1:952:A:H2'	29:B1:953:G:C5'	2.05	0.85
29:B1:1580:A:H3'	29:B1:1581:C:C5'	2.06	0.85
29:B1:2932:U:H2'	29:B1:2932:U:O2	1.76	0.85
29:B1:2992:U:H2'	29:B1:2993:G:C5'	2.05	0.85
29:B1:3190:C:H2'	29:B1:3190:C:O2	1.77	0.85
29:B1:3261:C:O2	29:B1:3261:C:C2'	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:112:A:H4'	1:C1:113:U:OP1	1.75	0.85
1:C1:172:C:O2'	1:C1:173:A:H8	1.60	0.85
1:C1:336:G:H2'	1:C1:337:G:H5"	1.56	0.85
1:C1:842:C:H2'	1:C1:843:U:C6	2.12	0.85
1:C1:844:A:N7	74:C1:1917:OHX:N4	2.25	0.85
1:C1:914:G:H4'	1:C1:915:A:O5'	1.76	0.85
1:C1:1299:G:H2'	1:C1:1300:A:C8	2.12	0.85
29:D1:210:U:O4	35:DD:161:LYS:HA	1.76	0.85
29:D1:382:U:H2'	29:D1:383:G:H4'	1.59	0.85
29:D1:394:G:C2	29:D1:396:A:H2'	2.11	0.85
29:D1:776:U:H3'	29:D1:777:U:C5'	2.05	0.85
29:D1:871:U:H2'	29:D1:872:U:C6	2.12	0.85
29:D1:1455:U:H4'	29:D1:1456:A:OP2	1.74	0.85
29:D1:2677:G:N1	29:D1:2679:A:C5	2.45	0.85
29:D1:3104:U:C2'	29:D1:3105:U:H5'	2.07	0.85
30:D2:12:U:H5'	30:D2:68:C:O2'	1.77	0.85
37:DF:12:SER:N	37:DF:116:LYS:HA	1.91	0.85
1:A1:992:A:H2	1:A1:1012:U:H3	0.90	0.85
1:A1:1631:A:C5	1:A1:1636:C:N4	2.43	0.85
29:B1:210:U:H3	35:BD:162:THR:N	1.75	0.85
29:B1:355:A:C2	29:B1:365:A:C4	2.64	0.85
29:B1:430:U:C2'	29:B1:431:U:H5'	2.07	0.85
29:B1:773:G:O2'	29:B1:774:G:C8	2.24	0.85
29:B1:810:A:H5"	29:B1:811:U:OP2	1.76	0.85
29:B1:934:G:C4	29:B1:935:U:C5	2.63	0.85
29:B1:1503:A:H5"	29:B1:1503:A:H8	1.39	0.85
29:B1:1504:A:H3'	29:B1:1505:C:H5"	1.57	0.85
29:B1:2513:U:H1'	29:B1:2514:U:OP1	1.76	0.85
29:B1:3141:A:H5'	29:B1:3143:C:C2	2.10	0.85
30:B2:11:A:N1	36:BE:15:ARG:O	2.09	0.85
31:B3:96:A:H3'	31:B3:97:A:H5"	1.57	0.85
34:BC:79:VAL:O	34:BC:321:PHE:HA	1.77	0.85
37:BF:12:SER:N	37:BF:116:LYS:HA	1.91	0.85
38:BG:74:SER:CB	38:BG:75:TYR:HA	2.06	0.85
50:BU:118:VAL:O	50:BU:137:VAL:HA	1.77	0.85
1:C1:1376:C:H2'	1:C1:1377:U:C5	2.11	0.85
29:D1:564:G:O3'	29:D1:564:G:OP1	1.94	0.85
29:D1:1196:C:O2	30:D2:86:U:O4'	1.95	0.85
29:D1:2716:U:H3'	29:D1:2717:U:H5"	1.59	0.85
29:D1:3100:U:HO2'	29:D1:3101:G:H8	1.25	0.85
1:A1:694:U:H5"	1:A1:695:U:H5	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:776:G:C2	1:A1:785:U:C2	2.64	0.84
1:A1:1259:U:O5’	1:A1:1259:U:H6	1.59	0.84
1:A1:1573:A:C4’	1:A1:1574:G:H5’	2.06	0.84
29:B1:404:G:N2	29:B1:405:U:H1’	1.92	0.84
29:B1:1313:G:H2’	29:B1:1314:C:H6	1.42	0.84
29:B1:2997:G:H1’	29:B1:2998:U:P	2.16	0.84
30:B2:95:A:H2’	30:B2:96:U:C6	2.12	0.84
1:C1:587:C:H2’	1:C1:588:U:O4’	1.76	0.84
1:C1:1521:G:C6	74:C1:1930:OHX:N1	2.45	0.84
29:D1:553:U:H2’	29:D1:554:A:O4’	1.77	0.84
29:D1:625:G:H8	29:D1:625:G:H5’	1.40	0.84
29:D1:834:U:H5”	29:D1:834:U:C6	2.11	0.84
29:D1:1019:G:H1	29:D1:1033:U:H3	0.88	0.84
29:D1:2251:G:O2’	29:D1:2252:A:H5”	1.75	0.84
29:D1:2682:C:N3	29:D1:2683:U:C5	2.45	0.84
29:D1:2768:U:O2’	29:D1:2769:A:H5’	1.76	0.84
29:D1:2873:U:O2’	29:D1:2874:G:H5’	1.76	0.84
29:D1:3071:U:O2’	29:D1:3072:C:H5’	1.76	0.84
29:D1:3204:C:H5’	43:DN:88:ALA:HB3	1.58	0.84
31:D3:8:C:H2’	31:D3:9:A:H8	1.41	0.84
1:A1:62:A:H4’	1:A1:63:G:OP2	1.74	0.84
1:A1:162:A:H3’	1:A1:163:G:C8	2.10	0.84
1:A1:555:A:C2	1:A1:556:A:C2	2.66	0.84
1:A1:1631:A:C6	1:A1:1636:C:H5	1.94	0.84
11:AJ:46:PHE:C	11:AJ:48:VAL:H	1.83	0.84
29:B1:160:G:H1	29:B1:261:U:H3	1.23	0.84
29:B1:717:C:H5’	29:B1:719:U:O4’	1.76	0.84
29:B1:953:G:H3’	29:B1:953:G:H8	1.41	0.84
29:B1:1452:A:H1’	29:B1:2347:U:H5”	1.58	0.84
29:B1:2393:G:N1	29:B1:2982:A:H2	1.74	0.84
29:B1:3274:A:H1’	29:B1:3275:U:P	2.16	0.84
43:BN:23:ILE:C	43:BN:32:LEU:HA	2.01	0.84
56:Ba:82:GLU:CB	56:Ba:83:GLU:HA	2.06	0.84
1:C1:44:U:H5’	1:C1:45:U:C4	2.10	0.84
1:C1:1243:G:H2’	1:C1:1244:A:C8	2.11	0.84
1:C1:1557:U:O5’	1:C1:1560:U:O4	1.94	0.84
1:C1:1591:C:H2’	1:C1:1592:A:C8	2.12	0.84
1:C1:1663:G:H2’	1:C1:1664:C:H6	1.42	0.84
6:CE:82:ARG:C	6:CE:84:GLY:H	1.85	0.84
29:D1:265:A:O4’	29:D1:265:A:OP1	1.95	0.84
29:D1:275:U:O2’	29:D1:276:U:H5’	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:378:A:N3	29:D1:378:A:C3'	2.39	0.84
29:D1:404:G:N2	29:D1:405:U:H1'	1.92	0.84
29:D1:597:G:C4	29:D1:598:A:C8	2.65	0.84
29:D1:1461:A:C4	29:D1:1462:A:C8	2.66	0.84
29:D1:1681:U:H2'	29:D1:1681:U:O2	1.77	0.84
29:D1:3179:U:O2'	29:D1:3180:A:OP1	1.94	0.84
29:D1:3299:A:N3	29:D1:3300:U:C5	2.45	0.84
1:A1:94:U:H2'	1:A1:95:G:O4'	1.76	0.84
1:A1:119:A:H2'	1:A1:120:U:O4'	1.77	0.84
1:A1:175:G:N7	74:A1:1915:OHX:N2	2.24	0.84
1:A1:404:G:H2'	1:A1:405:C:H6	1.40	0.84
1:A1:1636:C:C2	1:A1:1765:A:N6	2.46	0.84
1:A1:1735:U:H2'	1:A1:1736:G:C8	2.13	0.84
29:B1:415:G:H2'	29:B1:416:A:H8	1.43	0.84
29:B1:517:G:C8	29:B1:517:G:OP2	2.29	0.84
29:B1:547:G:H3'	29:B1:548:G:C8	2.12	0.84
29:B1:641:C:O2'	29:B1:642:U:OP1	1.93	0.84
29:B1:751:A:N3	29:B1:751:A:H2'	1.92	0.84
29:B1:945:C:C2	29:B1:946:U:C5	2.65	0.84
29:B1:969:C:H5"	29:B1:970:A:OP2	1.77	0.84
29:B1:1153:A:N7	29:B1:1154:A:C5	2.44	0.84
29:B1:1158:A:O2'	29:B1:1330:A:H2	1.60	0.84
29:B1:2272:G:H5'	29:B1:2272:G:N3	1.91	0.84
29:B1:3324:C:O2'	29:B1:3325:G:H5'	1.76	0.84
30:B2:91:G:C4	30:B2:92:A:C8	2.65	0.84
1:C1:629:U:C2'	1:C1:630:A:H8	1.89	0.84
1:C1:1429:G:H2'	1:C1:1430:U:H6	1.42	0.84
6:CE:80:LEU:CA	6:CE:81:VAL:CB	2.55	0.84
29:D1:207:U:H2'	29:D1:208:C:H6	1.42	0.84
29:D1:536:U:P	29:D1:536:U:H6	2.00	0.84
29:D1:1213:G:H5'	29:D1:1213:G:C8	2.10	0.84
29:D1:2205:U:H2'	29:D1:2206:G:H5'	1.58	0.84
36:DE:49:TYR:HA	36:DE:50:ARG:CB	2.07	0.84
59:Dd:21:ARG:O	74:Dd:101:OHX:N4	2.09	0.84
1:A1:129:U:C5	1:A1:264:G:C5	2.64	0.84
1:A1:1073:G:O6	1:A1:1074:G:C6	2.29	0.84
1:A1:1560:U:O2	1:A1:1561:U:H5	1.60	0.84
29:B1:550:A:C8	29:B1:550:A:OP2	2.29	0.84
29:B1:553:U:H2'	29:B1:554:A:O4'	1.77	0.84
29:B1:661:G:N1	29:B1:802:C:C6	2.45	0.84
29:B1:1191:U:O2	29:B1:1191:U:C2'	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1685:C:C5	29:B1:3069:G:N2	2.44	0.84
29:B1:2998:U:C6	29:B1:2998:U:H5"	2.11	0.84
29:B1:3244:A:C8	29:B1:3245:A:N7	2.44	0.84
29:B1:3315:G:H1'	29:B1:3320:A:C8	2.13	0.84
46:BQ:154:GLU:HA	46:BQ:155:GLU:CB	2.08	0.84
1:C1:125:U:O5'	1:C1:125:U:H6	1.59	0.84
1:C1:427:C:O4'	1:C1:459:G:O2'	1.96	0.84
1:C1:1215:C:O2'	1:C1:1216:C:H5'	1.77	0.84
1:C1:1258:U:H2'	1:C1:1259:U:O4'	1.76	0.84
1:C1:1634:C:H4'	1:C1:1635:A:O5'	1.75	0.84
29:D1:8:C:H2'	29:D1:9:U:C6	2.11	0.84
29:D1:284:A:C2	29:D1:306:A:C1'	2.53	0.84
29:D1:740:G:C6	29:D1:741:U:H5	1.96	0.84
29:D1:750:G:N2	29:D1:784:A:C1'	2.39	0.84
29:D1:826:G:H2'	29:D1:827:A:H8	1.42	0.84
29:D1:943:U:OP1	54:DY:13:GLY:HA2	1.77	0.84
29:D1:2150:G:H2'	29:D1:2151:C:H5"	1.58	0.84
29:D1:3187:A:C2	29:D1:3188:G:C4	2.66	0.84
1:A1:1491:U:H5"	1:A1:1492:A:H3'	1.57	0.84
29:B1:1157:G:C2	29:B1:1158:A:H1'	2.13	0.84
29:B1:1193:A:C8	29:B1:1194:G:C2	2.65	0.84
29:B1:2851:A:H2'	29:B1:2852:C:O4'	1.77	0.84
30:B2:26:C:H2'	30:B2:27:A:O4'	1.78	0.84
34:BC:153:LYS:CB	34:BC:155:ALA:HB2	2.08	0.84
1:C1:16:G:H2'	1:C1:17:C:H6	1.40	0.84
1:C1:174:U:O2	1:C1:174:U:H2'	1.75	0.84
1:C1:378:A:C8	1:C1:378:A:OP1	2.31	0.84
1:C1:1204:A:OP1	1:C1:1204:A:H4'	1.78	0.84
1:C1:1377:U:C2'	1:C1:1378:U:H4'	2.07	0.84
1:C1:1547:A:H5"	1:C1:1548:G:OP2	1.77	0.84
1:C1:1657:U:H4'	1:C1:1658:G:O5'	1.77	0.84
29:D1:159:A:O2'	29:D1:160:G:H5'	1.76	0.84
29:D1:382:U:C3'	29:D1:383:G:H4'	2.06	0.84
29:D1:1323:G:C3'	29:D1:1324:U:H5"	2.03	0.84
30:D2:4:U:H2'	30:D2:5:G:C8	2.12	0.84
34:DC:306:THR:O	34:DC:308:MET:N	2.11	0.84
1:A1:1472:C:H4'	1:A1:1473:U:H5'	1.60	0.84
1:A1:1580:C:O2'	1:A1:1581:C:O4'	1.95	0.84
29:B1:383:G:H3'	29:B1:385:A:OP2	1.77	0.84
29:B1:2147:A:H5'	29:B1:2147:A:C8	2.12	0.84
29:B1:2513:U:H5	29:B1:2591:A:N1	1.74	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2768:U:O2'	29:B1:2769:A:H5'	1.78	0.84
29:B1:3199:G:H2'	29:B1:3200:G:C8	2.12	0.84
29:B1:3262:U:O2'	29:B1:3263:G:H5'	1.76	0.84
31:B3:71:A:H4'	31:B3:72:A:OP1	1.77	0.84
31:B3:140:G:C6	31:B3:141:C:C4	2.66	0.84
42:BK:84:LEU:HA	42:BK:89:TYR:CA	2.07	0.84
1:C1:114:C:C5	1:C1:248:U:O4	2.30	0.84
1:C1:1269:U:H4'	1:C1:1270:G:O5'	1.76	0.84
1:C1:1583:A:O2'	1:C1:1584:G:H5'	1.78	0.84
29:D1:10:C:H2'	29:D1:10:C:O2	1.75	0.84
29:D1:86:G:H22	29:D1:98:G:H2'	1.40	0.84
29:D1:152:U:H2'	29:D1:153:U:H6	1.42	0.84
29:D1:515:C:H1'	37:DF:145:LEU:HA	1.59	0.84
29:D1:592:A:C4	29:D1:593:C:C1'	2.61	0.84
29:D1:637:C:C4	29:D1:638:C:N4	2.46	0.84
29:D1:773:G:HO2'	29:D1:774:G:H8	0.89	0.84
29:D1:804:C:N4	29:D1:940:G:C6	2.46	0.84
29:D1:1702:U:H3	29:D1:1743:G:H1	1.25	0.84
29:D1:2998:U:H2'	29:D1:2999:U:C6	2.12	0.84
29:D1:3333:G:O2'	29:D1:3369:G:N2	2.11	0.84
31:D3:96:A:H3'	31:D3:97:A:H5"	1.57	0.84
1:A1:357:G:H2'	1:A1:358:U:H6	1.43	0.84
1:A1:1595:U:H6	1:A1:1596:C:N3	1.76	0.84
29:B1:531:G:H2'	29:B1:532:A:H8	1.37	0.84
29:B1:726:G:C4	29:B1:744:A:N6	2.46	0.84
29:B1:1455:U:O4'	29:B1:1455:U:OP2	1.95	0.84
29:B1:2675:C:H41	29:B1:2676:A:N6	1.75	0.84
29:B1:2678:A:C8	29:B1:2679:A:C2	2.65	0.84
29:B1:2960:C:H5"	29:B1:2961:G:OP2	1.78	0.84
29:B1:3262:U:OP2	29:B1:3262:U:H3'	1.77	0.84
31:B3:19:C:C6	31:B3:20:U:H5	1.96	0.84
34:BC:106:TRP:O	34:BC:108:GLU:N	2.10	0.84
36:BE:134:ALA:HB3	36:BE:136:GLU:N	1.93	0.84
1:C1:64:U:H5'	1:C1:65:A:OP2	1.78	0.84
1:C1:477:A:C4	1:C1:539:G:O6	2.30	0.84
1:C1:725:U:H2'	1:C1:726:C:C6	2.12	0.84
1:C1:1770:U:C4	1:C1:1793:G:N2	2.45	0.84
29:D1:257:U:H2'	29:D1:258:G:H8	1.41	0.84
29:D1:596:C:O2	29:D1:597:G:H5"	1.77	0.84
29:D1:606:C:N4	29:D1:607:A:N6	2.26	0.84
29:D1:796:U:H2'	29:D1:797:U:C6	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3056:U:C2	29:D1:3079:U:C4	2.65	0.84
29:D1:3274:A:H1'	29:D1:3275:U:O5'	1.76	0.84
29:D1:3322:A:H2'	29:D1:3323:A:C8	2.12	0.84
30:D2:97:A:H2'	30:D2:98:C:C6	2.12	0.84
1:A1:209:U:H5'	1:A1:210:A:OP2	1.76	0.84
1:A1:1161:C:H1'	1:A1:1620:C:N4	1.92	0.84
1:A1:1631:A:N6	1:A1:1636:C:H5	1.74	0.84
29:B1:2603:G:H3'	29:B1:2604:U:H6	1.43	0.84
29:B1:3254:G:H2'	29:B1:3254:G:N3	1.91	0.84
29:B1:3377:G:C4	74:B1:3450:OHX:N2	2.44	0.84
30:B2:98:C:H3'	30:B2:99:G:H5"	1.59	0.84
1:C1:87:C:C3'	1:C1:88:U:H5"	2.08	0.84
1:C1:246:G:C6	1:C1:247:A:C2	2.66	0.84
1:C1:1259:U:H6	1:C1:1259:U:O5'	1.61	0.84
1:C1:1591:C:H2'	1:C1:1592:A:H8	1.42	0.84
1:C1:1632:C:O2'	1:C1:1633:A:O4'	1.95	0.84
1:C1:1718:G:H2'	1:C1:1719:A:H5"	1.58	0.84
29:D1:3139:A:H8	29:D1:3139:A:H5'	1.41	0.84
1:A1:193:U:H4'	1:A1:194:U:OP2	1.74	0.84
1:A1:1636:C:H4'	1:A1:1637:C:OP2	1.76	0.84
8:AG:145:THR:HA	8:AG:146:ALA:HB2	1.59	0.84
29:B1:709:A:H8	29:B1:709:A:OP1	1.60	0.84
29:B1:804:C:N4	29:B1:940:G:C6	2.46	0.84
29:B1:1074:U:O4	29:B1:1084:A:N6	2.11	0.84
29:B1:3029:A:H3'	29:B1:3030:G:H5"	1.60	0.84
29:B1:3141:A:C5'	29:B1:3143:C:C2	2.61	0.84
29:B1:3328:G:N2	29:B1:3329:U:C6	2.45	0.84
29:B1:3361:G:H2'	29:B1:3362:A:H5'	1.60	0.84
1:C1:1263:G:C2	1:C1:1264:G:H1'	2.12	0.84
1:C1:1521:G:N1	74:C1:1930:OHX:N5	2.25	0.84
3:CB:163:GLY:HA3	3:CB:203:LYS:CB	2.08	0.84
29:D1:118:U:H3	29:D1:150:A:H61	0.87	0.84
29:D1:191:U:O2'	29:D1:192:C:H5'	1.78	0.84
29:D1:365:A:C2	29:D1:366:A:C4	2.65	0.84
29:D1:382:U:C2'	29:D1:383:G:H4'	2.08	0.84
29:D1:606:C:C3'	29:D1:607:A:H8	1.80	0.84
29:D1:934:G:C4	29:D1:935:U:C5	2.66	0.84
29:D1:1232:C:C4'	73:DM:35:SER:HA	2.07	0.84
29:D1:2690:G:N3	29:D1:2690:G:C2'	2.40	0.84
29:D1:2900:A:C2	29:D1:2901:G:C5	2.65	0.84
1:A1:847:A:H2'	1:A1:848:C:C5'	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:895:G:H2'	1:A1:896:U:O4'	1.78	0.84
1:A1:1099:U:C4	1:A1:1100:G:O6	2.31	0.84
1:A1:1474:G:H2'	1:A1:1475:A:C8	2.13	0.84
1:A1:1722:A:C8	1:A1:1723:U:C6	2.66	0.84
29:B1:280:U:O2	29:B1:286:U:C2	2.31	0.84
29:B1:750:G:N1	29:B1:784:A:H1'	1.92	0.84
29:B1:3322:A:H2'	29:B1:3323:A:H8	1.43	0.84
31:B3:74:U:O3'	31:B3:89:A:H2'	1.78	0.84
1:C1:243:G:H2'	1:C1:244:A:H8	1.40	0.84
1:C1:590:C:H2'	1:C1:591:A:H8	1.43	0.84
1:C1:606:A:N7	1:C1:608:U:H5	1.75	0.84
1:C1:1274:C:O2	1:C1:1274:C:H2'	1.77	0.84
1:C1:1753:A:H61	1:C1:1754:A:N6	1.75	0.84
29:D1:140:C:H2'	29:D1:141:C:C6	2.12	0.84
29:D1:1303:A:C8	29:D1:1304:A:C6	2.65	0.84
29:D1:1462:A:H2'	29:D1:1463:U:C6	2.11	0.84
29:D1:3118:C:H2'	29:D1:3119:U:H6	1.41	0.84
44:DO:159:ARG:C	44:DO:161:ALA:H	1.85	0.84
50:DU:118:VAL:O	50:DU:137:VAL:HA	1.76	0.84
1:A1:555:A:OP2	1:A1:555:A:H3'	1.77	0.83
1:A1:1647:U:H2'	1:A1:1648:A:C8	2.12	0.83
29:B1:1289:G:H2'	29:B1:1290:A:C8	2.12	0.83
29:B1:1323:G:C3'	29:B1:1324:U:H5"	2.08	0.83
29:B1:1383:G:H4'	35:BD:241:GLY:CA	2.07	0.83
29:B1:1782:U:OP2	29:B1:1782:U:H6	1.60	0.83
29:B1:2129:U:H2'	29:B1:2130:G:C8	2.13	0.83
30:B2:105:C:O2	30:B2:105:C:H2'	1.76	0.83
31:B3:105:A:H4'	31:B3:106:C:C5	2.12	0.83
1:C1:528:U:H4'	1:C1:529:A:O5'	1.78	0.83
29:D1:620:U:OP2	29:D1:620:U:H6	1.61	0.83
29:D1:1393:A:N7	29:D1:1418:A:C8	2.45	0.83
29:D1:2999:U:H2'	29:D1:3000:A:C8	2.13	0.83
1:A1:177:U:H3'	1:A1:178:U:H5"	1.59	0.83
1:A1:183:U:H4'	1:A1:184:C:OP1	1.79	0.83
1:A1:827:C:N3	1:A1:846:G:C6	2.46	0.83
29:B1:420:G:H21	29:B1:2384:A:H3'	1.42	0.83
29:B1:1504:A:H2'	29:B1:1505:C:C6	2.13	0.83
29:B1:2681:U:P	42:BK:51:ARG:O	2.35	0.83
29:B1:3037:U:H2'	29:B1:3038:U:H6	1.43	0.83
31:B3:76:C:H2'	53:BX:76:LEU:CB	2.08	0.83
37:BF:162:SER:HA	37:BF:165:LEU:CB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:19:TYR:O	53:BX:21:THR:N	2.10	0.83
1:C1:289:U:H2'	1:C1:289:U:O2	1.77	0.83
1:C1:373:G:H2'	1:C1:374:U:H6	1.43	0.83
1:C1:618:U:H2'	1:C1:619:A:H5'	1.57	0.83
1:C1:623:A:O2'	1:C1:624:G:H5"	1.76	0.83
1:C1:983:A:H2'	1:C1:984:G:C8	2.13	0.83
1:C1:1146:G:H8	1:C1:1635:A:C2	1.96	0.83
1:C1:1166:A:C2	1:C1:1167:G:H1'	2.13	0.83
1:C1:1467:C:H5'	1:C1:1602:C:OP1	1.76	0.83
29:D1:512:U:C2	29:D1:579:G:N1	2.47	0.83
29:D1:594:U:N3	29:D1:595:G:N1	2.26	0.83
29:D1:595:G:N1	29:D1:610:G:OP1	2.10	0.83
29:D1:745:C:N4	29:D1:746:A:N6	2.26	0.83
29:D1:1212:A:C6	29:D1:1294:A:N1	2.45	0.83
29:D1:1289:G:H2'	29:D1:1290:A:H8	1.43	0.83
29:D1:1484:U:H1'	29:D1:1485:G:OP1	1.78	0.83
29:D1:2159:U:H4'	29:D1:2160:G:OP2	1.74	0.83
29:D1:2304:C:O2'	29:D1:2305:G:H5'	1.77	0.83
29:D1:2344:U:H5"	29:D1:2345:A:OP2	1.77	0.83
29:D1:2955:U:H2'	29:D1:2956:A:C8	2.12	0.83
29:D1:3150:A:N6	29:D1:3152:U:O4	2.11	0.83
29:D1:3212:C:N3	29:D1:3213:A:H2	1.73	0.83
29:D1:3261:C:O2	29:D1:3261:C:C2'	2.22	0.83
29:D1:3273:A:C6	29:D1:3274:A:N7	2.47	0.83
1:A1:869:A:H2'	1:A1:870:C:O4'	1.77	0.83
1:A1:1770:U:C4	1:A1:1793:G:N2	2.47	0.83
29:B1:191:U:O2'	29:B1:192:C:H5'	1.77	0.83
29:B1:336:A:O2'	29:B1:337:G:H5'	1.78	0.83
29:B1:382:U:C2'	29:B1:383:G:H4'	2.07	0.83
29:B1:1190:A:H2	29:B1:1191:U:C6	1.97	0.83
29:B1:2145:A:H1'	29:B1:2958:A:H4'	1.59	0.83
29:B1:2953:U:H2'	29:B1:2954:U:H6	1.43	0.83
29:B1:3273:A:N1	29:B1:3274:A:C5	2.46	0.83
29:B1:3283:U:H2'	29:B1:3284:G:O4'	1.77	0.83
1:C1:239:C:H4'	1:C1:240:U:H5'	1.60	0.83
1:C1:643:G:N2	1:C1:692:C:C2	2.46	0.83
29:D1:422:A:C1'	29:D1:423:A:C5'	2.53	0.83
29:D1:518:G:OP2	29:D1:518:G:C8	2.30	0.83
29:D1:537:A:N6	29:D1:556:U:C2	2.45	0.83
29:D1:618:C:C2'	29:D1:619:A:H8	1.87	0.83
29:D1:1155:C:O2	29:D1:1155:C:H2'	1.76	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1191:U:OP2	29:D1:1192:C:C5	2.30	0.83
29:D1:2396:G:O2'	29:D1:2398:A:H4'	1.76	0.83
30:D2:30:G:N1	30:D2:49:G:C6	2.46	0.83
21:AT:301:LEU:CB	21:AT:313:TRP:O	2.25	0.83
29:B1:661:G:C6	29:B1:802:C:C6	2.66	0.83
29:B1:955:U:H2'	29:B1:956:U:H6	1.42	0.83
29:B1:1678:G:H2'	29:B1:1679:A:C8	2.12	0.83
29:B1:2390:A:C4'	29:B1:3307:A:C2	2.61	0.83
29:B1:2601:A:O2'	29:B1:2602:G:H5'	1.78	0.83
31:B3:40:A:C4	31:B3:41:A:C8	2.67	0.83
31:B3:138:A:H2	31:B3:139:U:C2	1.95	0.83
39:BH:219:ASP:O	39:BH:223:ALA:HB3	1.78	0.83
41:BJ:65:LEU:O	41:BJ:68:ALA:HB3	1.78	0.83
62:Bg:56:THR:HA	62:Bg:63:THR:HA	1.60	0.83
1:C1:1271:G:H2'	1:C1:1272:U:C6	2.13	0.83
29:D1:585:A:C3'	29:D1:586:C:H6	1.92	0.83
29:D1:2262:A:H3'	29:D1:2263:C:C5'	2.07	0.83
1:A1:84:A:C2'	1:A1:85:A:H5'	2.07	0.83
9:AH:60:ALA:O	9:AH:63:ALA:HB3	1.77	0.83
29:B1:550:A:OP2	29:B1:550:A:H8	1.61	0.83
29:B1:1218:U:C2'	29:B1:1219:C:H5'	2.09	0.83
29:B1:2136:C:H3'	29:B1:2142:A:H61	1.44	0.83
29:B1:3055:U:H2'	29:B1:3085:G:N1	1.91	0.83
29:B1:3314:A:H5"	34:BC:119:TYR:N	1.94	0.83
1:C1:62:A:N3	1:C1:63:G:N7	2.26	0.83
1:C1:394:C:N4	1:C1:401:A:H62	1.76	0.83
1:C1:593:U:H4'	1:C1:595:G:H4'	1.59	0.83
1:C1:1291:G:H2'	1:C1:1292:G:H8	1.42	0.83
1:C1:1590:G:H2'	1:C1:1591:C:C6	2.13	0.83
1:C1:1760:G:C5	1:C1:1761:U:H5	1.95	0.83
29:D1:278:U:H2'	29:D1:279:U:C6	2.13	0.83
29:D1:514:G:C3'	29:D1:515:C:C6	2.61	0.83
29:D1:952:A:H2'	29:D1:953:G:C5'	2.08	0.83
29:D1:1295:G:H2'	29:D1:1296:C:C6	2.13	0.83
29:D1:2132:C:H5'	29:D1:2132:C:H6	1.43	0.83
29:D1:2880:U:C2'	29:D1:2881:C:H5'	2.09	0.83
29:D1:3044:G:O3'	34:DC:12:GLY:HA2	1.78	0.83
29:D1:3299:A:O2'	29:D1:3300:U:P	2.36	0.83
34:DC:93:VAL:CB	34:DC:155:ALA:HB1	2.08	0.83
41:DJ:177:ASP:CA	41:DJ:179:PRO:N	2.35	0.83
1:A1:1215:C:O2'	1:A1:1216:C:H5'	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1228:G:H5'	1:A1:1229:G:OP2	1.79	0.83
1:A1:1547:A:H5"	1:A1:1548:G:OP2	1.79	0.83
29:B1:157:A:H4'	29:B1:158:G:OP1	1.75	0.83
29:B1:673:U:C2'	29:B1:674:G:H5'	2.07	0.83
29:B1:718:G:O6	29:B1:786:A:N7	2.11	0.83
29:B1:840:C:C2'	29:B1:841:A:H5'	2.09	0.83
29:B1:1357:G:H2'	29:B1:1358:C:C6	2.13	0.83
29:B1:2268:U:H2'	29:B1:2269:U:C5	2.14	0.83
29:B1:3316:A:N6	29:B1:3320:A:N1	2.27	0.83
45:BP:124:LEU:HA	45:BP:126:VAL:H	1.40	0.83
1:C1:149:C:H3'	1:C1:150:U:H6	1.40	0.83
1:C1:283:U:H3'	1:C1:284:G:H5"	1.59	0.83
1:C1:291:G:H2'	1:C1:292:U:C5	2.13	0.83
1:C1:1573:A:C4'	1:C1:1574:G:H5'	2.06	0.83
1:C1:1628:U:H2'	1:C1:1629:G:C8	2.14	0.83
1:C1:1753:A:H3'	1:C1:1754:A:H5"	1.59	0.83
1:C1:1760:G:C4	1:C1:1761:U:H5	1.96	0.83
29:D1:911:C:O2	29:D1:911:C:H2'	1.75	0.83
29:D1:1139:G:H8	29:D1:1139:G:C5'	1.91	0.83
30:D2:25:G:C2	30:D2:26:C:N3	2.46	0.83
1:A1:701:U:H3'	1:A1:702:G:H5"	1.60	0.83
1:A1:1123:C:C5	1:A1:1124:A:C5	2.67	0.83
29:B1:281:G:C2	29:B1:282:G:N7	2.47	0.83
29:B1:1303:A:C2	29:B1:2887:A:N1	2.46	0.83
29:B1:2232:A:H2'	29:B1:2233:A:O4'	1.79	0.83
29:B1:2932:U:O2	29:B1:2934:A:OP2	1.96	0.83
29:B1:3367:C:C2'	29:B1:3368:U:H5"	2.09	0.83
31:B3:80:A:H2'	31:B3:81:U:C2	2.13	0.83
43:BN:22:LEU:CB	43:BN:65:LEU:HA	2.08	0.83
1:C1:183:U:H4'	1:C1:184:C:OP1	1.78	0.83
1:C1:358:U:H5"	1:C1:359:A:OP2	1.79	0.83
1:C1:1109:G:C2	1:C1:1110:G:C8	2.65	0.83
1:C1:1626:U:H2'	1:C1:1627:U:H5'	1.60	0.83
29:D1:422:A:C1'	29:D1:423:A:H5"	2.09	0.83
29:D1:1196:C:N3	30:D2:86:U:C5	2.47	0.83
29:D1:1299:U:H2'	29:D1:1300:G:O4'	1.78	0.83
37:DF:162:SER:HA	37:DF:165:LEU:CB	2.09	0.83
1:A1:259:U:C5	1:A1:261:U:O4	2.31	0.83
1:A1:310:C:H2'	1:A1:311:U:O5'	1.79	0.83
1:A1:1350:U:OP2	1:A1:1351:G:C8	2.30	0.83
29:B1:378:A:N3	29:B1:378:A:C3'	2.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:575:G:C5'	29:B1:575:G:H8	1.90	0.83
29:B1:641:C:OP1	74:B1:3492:OHX:N1	2.12	0.83
29:B1:1786:G:H2'	29:B1:1787:A:C8	2.13	0.83
29:B1:3139:A:H8	29:B1:3139:A:H5'	1.43	0.83
34:BC:62:ARG:O	34:BC:64:GLY:N	2.11	0.83
36:BE:128:GLU:CB	36:BE:129:TYR:HA	2.08	0.83
46:BQ:98:ALA:O	46:BQ:99:ALA:C	2.21	0.83
46:BQ:128:ARG:H	46:BQ:139:TYR:H	1.26	0.83
1:C1:29:U:O2	1:C1:597:G:O6	1.97	0.83
1:C1:121:U:H2'	1:C1:122:U:O4'	1.79	0.83
1:C1:280:U:H3'	1:C1:281:G:H8	1.44	0.83
1:C1:427:C:H6	1:C1:427:C:H5"	1.43	0.83
1:C1:1250:U:N3	1:C1:1251:U:C4	2.47	0.83
29:D1:1064:A:C2	29:D1:1095:U:N3	2.46	0.83
29:D1:1226:G:H1'	29:D1:3116:G:O6	1.79	0.83
29:D1:2293:C:C5	29:D1:2294:U:C5	2.66	0.83
29:D1:2680:A:H61	42:DK:56:THR:CA	1.92	0.83
29:D1:3283:U:H2'	29:D1:3284:G:O4'	1.79	0.83
29:D1:3320:A:C6	29:D1:3321:C:N4	2.46	0.83
34:DC:93:VAL:H	34:DC:99:LEU:CB	1.92	0.83
73:DM:25:LEU:H	73:DM:191:TYR:HA	1.42	0.83
1:A1:1118:G:H2'	1:A1:1119:G:H8	1.43	0.83
1:A1:1195:C:OP1	1:A1:1197:C:H1'	1.78	0.83
1:A1:1244:A:H2'	1:A1:1244:A:N3	1.91	0.83
1:A1:1735:U:H2'	1:A1:1736:G:H8	1.44	0.83
10:AI:97:TYR:HA	10:AI:102:PHE:H	1.44	0.83
26:Ae:7:UNK:O	26:Ae:9:UNK:N	2.12	0.83
29:B1:537:A:N6	29:B1:556:U:C2	2.46	0.83
29:B1:826:G:H2'	29:B1:827:A:H8	1.41	0.83
29:B1:1231:A:H61	29:B1:1276:U:H5	1.23	0.83
29:B1:1884:A:C5	29:B1:1885:U:N3	2.47	0.83
29:B1:2144:A:C2	29:B1:2281:A:C5	2.65	0.83
29:B1:2278:C:N4	29:B1:2305:G:N7	2.27	0.83
29:B1:2640:A:C4	29:B1:2641:U:C5	2.66	0.83
29:B1:3176:G:H2'	29:B1:3177:G:C5'	2.08	0.83
29:B1:3316:A:H61	29:B1:3388:C:H42	1.26	0.83
30:B2:12:U:H2'	30:B2:13:A:N1	1.94	0.83
46:BQ:76:PHE:HA	46:BQ:78:VAL:N	1.93	0.83
1:C1:515:A:H61	1:C1:537:G:H1	1.27	0.83
1:C1:756:A:C5	1:C1:757:A:N7	2.47	0.83
1:C1:1047:G:H1	1:C1:1071:U:H3	0.84	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1087:A:H3'	1:C1:1088:A:H8	1.44	0.83
1:C1:1139:A:H2'	1:C1:1140:G:O5'	1.77	0.83
29:D1:2918:G:N2	29:D1:2919:A:N7	2.27	0.83
1:A1:1398:U:O2'	1:A1:1399:C:H3'	1.78	0.83
9:AH:22:SER:C	9:AH:24:ASN:H	1.87	0.83
29:B1:511:G:N2	29:B1:579:G:N1	2.26	0.83
29:B1:704:U:H6	29:B1:704:U:H3'	1.43	0.83
29:B1:947:G:H2'	29:B1:948:C:H6	1.44	0.83
29:B1:1528:G:O2'	29:B1:1529:A:H5'	1.78	0.83
29:B1:1740:U:H2'	29:B1:1741:A:H5'	1.61	0.83
29:B1:2255:A:C6	74:B1:3438:OHX:N2	2.47	0.83
29:B1:2955:U:H2'	29:B1:2956:A:C8	2.14	0.83
29:B1:3099:C:O2'	29:B1:3100:U:P	2.36	0.83
44:BO:186:GLY:N	44:BO:187:ARG:HA	1.93	0.83
70:Bq:5:UNK:O	70:Bq:6:UNK:O	1.97	0.83
1:C1:102:U:O4	1:C1:360:A:H2'	1.78	0.83
1:C1:223:U:H3	1:C1:838:G:H1	1.23	0.83
1:C1:1092:A:C5	1:C1:1094:G:C8	2.67	0.83
1:C1:1746:A:H5"	1:C1:1747:G:OP2	1.78	0.83
15:CN:21:LYS:N	15:CN:92:ASP:HA	1.94	0.83
20:CS:23:VAL:C	74:CS:101:OHX:N2	2.36	0.83
29:D1:414:U:H2'	29:D1:415:G:H8	1.43	0.83
29:D1:703:G:N3	29:D1:703:G:H2'	1.92	0.83
29:D1:937:G:N2	29:D1:960:U:H5'	1.94	0.83
29:D1:1508:C:OP2	29:D1:1509:A:OP2	1.97	0.83
29:D1:1856:C:C2'	29:D1:1857:C:H5'	2.09	0.83
29:D1:2172:A:C2'	29:D1:2173:U:H5'	2.06	0.83
29:D1:3078:U:H4'	29:D1:3079:U:C5'	2.07	0.83
56:Da:14:ILE:H	56:Da:72:ARG:H	1.26	0.83
1:A1:606:A:C8	1:A1:608:U:C5	2.66	0.82
1:A1:1631:A:O4'	1:A1:1764:C:O2	1.97	0.82
29:B1:2222:A:HO2'	29:B1:2223:A:H8	1.27	0.82
29:B1:2395:G:H2'	29:B1:2396:G:H5'	1.60	0.82
29:B1:2611:U:H2'	29:B1:2612:U:H6	1.44	0.82
29:B1:3104:U:H2'	29:B1:3105:U:H5'	1.59	0.82
29:B1:3210:A:C5	29:B1:3211:C:N4	2.47	0.82
1:C1:218:A:N6	1:C1:844:A:H1'	1.93	0.82
1:C1:1275:A:OP1	1:C1:1275:A:C8	2.32	0.82
1:C1:1734:U:C2	1:C1:1735:U:C5	2.67	0.82
29:D1:681:U:H1'	29:D1:682:U:H5'	1.61	0.82
29:D1:1001:G:OP2	29:D1:1001:G:H4'	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2513:U:H5	29:D1:2591:A:N1	1.75	0.82
29:D1:2675:C:H41	29:D1:2676:A:N6	1.77	0.82
29:D1:3209:A:N1	29:D1:3210:A:N1	2.27	0.82
29:D1:3215:A:OP2	29:D1:3218:A:C8	2.32	0.82
30:D2:23:A:C3'	30:D2:24:A:H8	1.90	0.82
30:D2:91:G:H2'	30:D2:92:A:C8	2.13	0.82
35:DD:76:ARG:HA	35:DD:88:GLY:HA2	1.59	0.82
54:DY:131:SER:C	54:DY:133:LEU:H	1.86	0.82
1:A1:520:A:H2'	1:A1:521:A:C8	2.11	0.82
1:A1:690:G:H2'	1:A1:691:C:H5'	1.60	0.82
1:A1:914:G:H3'	74:A1:1937:OHX:N6	1.93	0.82
1:A1:1201:G:N3	1:A1:1201:G:C3'	2.42	0.82
1:A1:1222:C:H2'	1:A1:1223:A:C8	2.13	0.82
10:AI:59:LYS:O	10:AI:63:ALA:HB3	1.78	0.82
29:B1:284:A:H62	29:B1:2785:A:H4'	1.42	0.82
29:B1:382:U:C3'	29:B1:383:G:H4'	2.09	0.82
29:B1:562:C:H2'	29:B1:563:U:H6	1.42	0.82
29:B1:1180:A:C4	29:B1:1182:A:C8	2.68	0.82
29:B1:1440:G:O2'	29:B1:1441:G:H5'	1.79	0.82
29:B1:2588:U:H5'	29:B1:2589:G:OP2	1.78	0.82
31:B3:69:U:C2'	31:B3:70:G:H4'	2.09	0.82
48:BS:18:GLY:O	48:BS:20:ARG:N	2.11	0.82
1:C1:811:A:HO2'	1:C1:858:G:H8	1.27	0.82
29:D1:514:G:H2'	29:D1:515:C:N1	1.94	0.82
29:D1:547:G:H3'	29:D1:548:G:C8	2.14	0.82
29:D1:835:G:C2	29:D1:857:G:N3	2.47	0.82
29:D1:2897:A:C2	29:D1:2905:U:C2	2.67	0.82
1:A1:43:A:H2'	1:A1:44:U:H5"	1.60	0.82
1:A1:1274:C:OP2	1:A1:1428:G:OP1	1.96	0.82
1:A1:1591:C:H2'	1:A1:1592:A:H8	1.42	0.82
29:B1:588:G:C5	29:B1:612:U:H5	1.96	0.82
29:B1:2167:A:H2'	29:B1:2168:A:C8	2.14	0.82
29:B1:2172:A:H2'	29:B1:2173:U:H5'	1.60	0.82
29:B1:2727:A:OP2	49:BT:80:VAL:O	1.97	0.82
34:BC:294:GLY:HA2	34:BC:295:ALA:C	2.04	0.82
29:D1:96:G:N2	29:D1:97:U:H1'	1.93	0.82
29:D1:550:A:C8	29:D1:550:A:OP2	2.33	0.82
29:D1:1492:G:H3'	29:D1:1493:G:N2	1.94	0.82
29:D1:1740:U:H2'	29:D1:1741:A:H5'	1.59	0.82
29:D1:2299:A:C5	29:D1:2300:G:C8	2.68	0.82
29:D1:2327:U:H2'	29:D1:2327:U:O2	1.77	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2986:U:H2'	29:D1:2987:A:H8	1.42	0.82
1:A1:791:A:H2'	1:A1:792:U:H6	1.43	0.82
1:A1:1764:C:H2'	1:A1:1767:G:N7	1.95	0.82
4:AC:140:GLY:HA3	4:AC:182:LEU:HA	1.61	0.82
22:Aa:19:UNK:C	22:Aa:21:UNK:H	1.92	0.82
29:B1:113:C:C2'	29:B1:114:A:H5'	2.09	0.82
29:B1:207:U:H2'	29:B1:208:C:H6	1.44	0.82
29:B1:344:A:C4	29:B1:345:G:C8	2.67	0.82
29:B1:2159:U:H4'	29:B1:2160:G:OP2	1.78	0.82
29:B1:3102:G:H8	29:B1:3102:G:H5'	1.43	0.82
30:B2:106:U:C2	30:B2:107:C:C5	2.67	0.82
16:CO:52:TYR:HA	23:Cb:6:UNK:CB	2.09	0.82
29:D1:592:A:H2'	29:D1:593:C:O2'	1.79	0.82
29:D1:1877:U:H4'	29:D1:1878:G:OP2	1.80	0.82
29:D1:2294:U:O2	29:D1:2296:A:H2'	1.79	0.82
29:D1:2883:U:H2'	29:D1:2884:C:H6	1.42	0.82
29:D1:2912:G:C5	29:D1:2913:C:N3	2.47	0.82
29:D1:3141:A:C5'	29:D1:3143:C:C2	2.62	0.82
29:D1:3297:U:C2	29:D1:3298:C:C5	2.67	0.82
74:D3:202:OHX:N6	74:D3:212:OHX:N1	2.28	0.82
36:DE:126:GLU:C	36:DE:128:GLU:H	1.87	0.82
1:A1:44:U:C5'	1:A1:45:U:H5	1.91	0.82
1:A1:149:C:H3'	1:A1:150:U:H6	1.42	0.82
1:A1:901:G:H3'	1:A1:902:G:C8	2.14	0.82
1:A1:921:U:H2'	1:A1:922:G:C8	2.15	0.82
17:AP:127:VAL:HA	17:AP:129:GLY:N	1.95	0.82
29:B1:150:A:H2'	29:B1:151:A:C8	2.13	0.82
29:B1:370:U:O2	29:B1:403:C:N3	2.12	0.82
29:B1:1304:A:C4	29:B1:2939:G:H1'	2.13	0.82
29:B1:1450:G:H8	29:B1:1450:G:O5'	1.61	0.82
29:B1:1453:A:N9	29:B1:1850:A:H2	1.77	0.82
29:B1:3047:U:C2	29:B1:3048:A:H2	1.97	0.82
57:Bb:83:GLU:O	57:Bb:85:LEU:N	2.12	0.82
1:C1:1673:G:C2'	1:C1:1674:C:H5'	2.08	0.82
2:CA:26:ALA:HA	2:CA:164:ASN:HA	1.58	0.82
8:CG:145:THR:HA	8:CG:146:ALA:HB2	1.59	0.82
24:Cc:1:UNK:N	24:Cc:74:UNK:HA	1.93	0.82
29:D1:210:U:H4'	29:D1:211:A:O5'	1.78	0.82
29:D1:1072:G:H2'	29:D1:1073:U:H6	1.44	0.82
29:D1:1154:A:H5'	29:D1:1155:C:H5	1.43	0.82
29:D1:1339:C:H2'	29:D1:1340:G:H8	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1349:G:H8	29:D1:1349:G:OP2	1.62	0.82
29:D1:2754:G:C3'	29:D1:2755:C:H5'	2.10	0.82
31:D3:74:U:O3'	31:D3:89:A:H2'	1.79	0.82
1:A1:59:C:C6	1:A1:62:A:N6	2.45	0.82
1:A1:364:G:C2	1:A1:381:C:C2	2.68	0.82
1:A1:717:C:H2'	1:A1:718:U:H5"	1.60	0.82
1:A1:1382:A:C5'	15:AN:59:PRO:HA	2.09	0.82
1:A1:1650:U:H3'	1:A1:1651:A:H8	1.44	0.82
1:A1:1661:U:H2'	1:A1:1662:G:C8	2.13	0.82
29:B1:421:G:N2	29:B1:2365:C:C1'	2.43	0.82
29:B1:3179:U:O2'	29:B1:3180:A:OP1	1.98	0.82
29:B1:3209:A:H3'	29:B1:3210:A:C8	2.13	0.82
29:B1:3316:A:N6	29:B1:3388:C:H42	1.78	0.82
30:B2:88:G:C4	30:B2:89:G:N7	2.48	0.82
1:C1:818:C:H2'	1:C1:819:G:N7	1.94	0.82
1:C1:836:U:H2'	1:C1:837:G:H8	1.44	0.82
1:C1:992:A:C2	1:C1:1012:U:C2	2.68	0.82
1:C1:1141:G:H3'	1:C1:1142:A:C5'	2.09	0.82
1:C1:1478:G:H8	1:C1:1478:G:H5'	1.45	0.82
17:CP:127:VAL:HA	17:CP:129:GLY:N	1.95	0.82
29:D1:717:C:H5'	29:D1:719:U:O4'	1.79	0.82
29:D1:1651:U:O2'	29:D1:1652:G:H5'	1.79	0.82
29:D1:3181:C:C6	45:DP:167:TYR:CB	2.62	0.82
29:D1:3261:C:OP2	29:D1:3262:U:OP1	1.96	0.82
29:D1:3280:U:O2'	29:D1:3281:U:OP2	1.97	0.82
74:D1:3408:OHX:N6	74:D1:3582:OHX:N3	2.27	0.82
30:D2:30:G:N1	30:D2:49:G:N1	2.27	0.82
1:A1:1219:A:H5'	1:A1:1220:C:C5	2.10	0.82
1:A1:1557:U:P	1:A1:1560:U:O4	2.38	0.82
2:AA:35:PRO:O	2:AA:37:VAL:N	2.12	0.82
29:B1:188:U:O2	29:B1:222:A:H2	1.62	0.82
29:B1:592:A:C4	29:B1:593:C:H1'	2.08	0.82
29:B1:1442:U:H5'	29:B1:1442:U:H6	1.45	0.82
29:B1:1798:A:C2	29:B1:1799:A:C4	2.68	0.82
29:B1:3242:G:N2	29:B1:3244:A:H8	1.77	0.82
30:B2:64:A:N6	30:B2:111:U:C4	2.46	0.82
44:BO:78:GLY:CA	44:BO:79:ALA:HB2	2.10	0.82
59:Bd:37:CYS:N	74:Bd:101:OHX:N3	2.26	0.82
1:C1:1148:C:H2'	1:C1:1149:G:N7	1.95	0.82
9:CH:22:SER:C	9:CH:24:ASN:H	1.86	0.82
13:CL:96:LYS:CB	13:CL:97:ASP:HA	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:39:A:C8	29:D1:41:G:OP2	2.31	0.82
29:D1:594:U:O4	29:D1:610:G:P	2.38	0.82
29:D1:623:U:H2'	29:D1:624:G:H8	1.45	0.82
29:D1:641:C:H2'	29:D1:642:U:O4'	1.79	0.82
29:D1:2295:A:N6	29:D1:2296:A:N6	2.27	0.82
29:D1:3171:U:H1'	29:D1:3172:A:OP2	1.78	0.82
29:D1:3386:G:H8	29:D1:3386:G:O5'	1.63	0.82
36:DE:141:PRO:C	36:DE:143:LYS:H	1.88	0.82
41:DJ:89:VAL:O	41:DJ:136:PHE:HA	1.78	0.82
1:A1:43:A:C2	1:A1:378:A:N6	2.47	0.82
1:A1:169:A:N7	1:A1:171:A:N6	2.27	0.82
1:A1:556:A:H5"	1:A1:558:U:OP2	1.78	0.82
1:A1:1243:G:H2'	1:A1:1244:A:C8	2.14	0.82
17:AP:85:ALA:HB1	17:AP:123:LYS:HA	1.62	0.82
29:B1:88:A:C2	29:B1:89:A:H1'	2.15	0.82
29:B1:592:A:OP2	29:B1:592:A:C8	2.33	0.82
29:B1:1750:A:O3'	29:B1:1751:G:H8	1.61	0.82
29:B1:2680:A:H3'	29:B1:2681:U:H5'	1.62	0.82
29:B1:2996:U:H4'	29:B1:2997:G:OP2	1.79	0.82
29:B1:3201:C:P	29:B1:3201:C:O4'	2.37	0.82
29:B1:3280:U:O2'	29:B1:3281:U:OP2	1.98	0.82
30:B2:25:G:C2	30:B2:26:C:N3	2.48	0.82
1:C1:527:A:P	1:C1:528:U:H3'	2.19	0.82
1:C1:1182:U:H2'	1:C1:1184:A:OP2	1.79	0.82
1:C1:1378:U:H3'	1:C1:1379:C:C5'	2.10	0.82
1:C1:1420:C:C5	1:C1:1421:A:C8	2.65	0.82
1:C1:1764:C:H6	1:C1:1764:C:H5'	1.43	0.82
29:D1:285:A:H2	29:D1:304:G:O3'	1.62	0.82
29:D1:594:U:N3	29:D1:595:G:C6	2.48	0.82
29:D1:611:A:H3'	29:D1:612:U:C5'	2.10	0.82
29:D1:761:A:H3'	29:D1:762:U:H5"	1.62	0.82
29:D1:1289:G:H4'	29:D1:1290:A:OP1	1.78	0.82
29:D1:1591:G:O2'	29:D1:1799:A:N1	2.12	0.82
29:D1:1593:A:H2'	29:D1:1594:A:H8	1.42	0.82
29:D1:1697:A:C2'	29:D1:1698:C:H5'	2.09	0.82
29:D1:2897:A:H2	29:D1:2905:U:C2	1.98	0.82
29:D1:2948:C:O2'	29:D1:2949:U:H5'	1.79	0.82
29:D1:3012:A:C2'	29:D1:3013:U:H5"	2.10	0.82
29:D1:3184:A:H5"	29:D1:3184:A:H8	1.41	0.82
29:D1:3277:U:C2'	29:D1:3278:C:H5'	2.09	0.82
29:D1:3280:U:OP2	29:D1:3280:U:H2'	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3314:A:H5”	34:DC:119:TYR:N	1.93	0.82
30:D2:12:U:O4’	30:D2:69:C:H4’	1.80	0.82
35:DD:63:GLU:O	35:DD:75:PRO:HA	1.80	0.82
43:DN:33:ALA:CB	43:DN:48:GLY:H	1.93	0.82
1:A1:623:A:O2’	1:A1:624:G:H5”	1.80	0.82
1:A1:983:A:H2’	1:A1:984:G:C8	2.15	0.82
1:A1:1420:C:H5	1:A1:1421:A:C8	1.95	0.82
1:A1:1578:U:O2’	1:A1:1579:U:H5’	1.78	0.82
1:A1:1631:A:C2	1:A1:1632:C:H1’	2.15	0.82
1:A1:1632:C:HO2’	1:A1:1633:A:H8	1.26	0.82
1:A1:1719:A:H5’	1:A1:1720:G:OP2	1.80	0.82
18:AQ:41:ILE:HA	18:AQ:44:GLN:H	1.44	0.82
29:B1:102:C:H1’	29:B1:103:G:OP1	1.80	0.82
29:B1:265:A:O4’	29:B1:265:A:OP1	1.98	0.82
29:B1:681:U:H1’	29:B1:682:U:H5’	1.61	0.82
29:B1:1108:U:H2’	29:B1:1109:U:C6	2.15	0.82
29:B1:1540:U:O2	29:B1:1540:U:H2’	1.78	0.82
29:B1:1794:G:N1	33:BB:185:ALA:HB1	1.95	0.82
29:B1:2344:U:H5”	29:B1:2345:A:OP2	1.80	0.82
29:B1:2923:U:C2	29:B1:2924:U:C5	2.67	0.82
29:B1:2971:A:OP1	29:B1:2971:A:H3’	1.78	0.82
29:B1:3144:G:C6	74:B1:3428:OHX:N1	2.48	0.82
1:C1:556:A:C3’	1:C1:558:U:OP2	2.28	0.82
1:C1:647:G:N2	1:C1:648:G:C2	2.48	0.82
1:C1:973:A:H2’	1:C1:974:A:H8	1.44	0.82
29:D1:210:U:OP2	29:D1:210:U:H6	1.62	0.82
29:D1:1063:G:O2’	29:D1:1064:A:N3	2.12	0.82
29:D1:1074:U:O4	29:D1:1084:A:N6	2.12	0.82
29:D1:1532:C:H2’	29:D1:1533:U:C6	2.14	0.82
29:D1:1640:G:C4	29:D1:1641:U:C5	2.67	0.82
29:D1:1862:U:H5”	29:D1:1863:G:OP2	1.79	0.82
29:D1:3204:C:H5’	43:DN:88:ALA:CB	2.10	0.82
31:D3:70:G:C8	31:D3:71:A:C6	2.68	0.82
38:DG:73:GLY:HA2	38:DG:74:SER:O	1.80	0.82
44:DO:79:ALA:H	44:DO:80:THR:CB	1.93	0.82
48:DS:151:ARG:HA	48:DS:154:ALA:HB3	1.62	0.82
1:A1:364:G:H5’	1:A1:365:G:OP2	1.80	0.82
1:A1:1429:G:H2’	1:A1:1430:U:H6	1.45	0.82
6:AE:80:LEU:CA	6:AE:81:VAL:CB	2.57	0.82
29:B1:773:G:C2’	29:B1:774:G:H8	1.92	0.82
29:B1:826:G:O2’	29:B1:1589:A:H8	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1255:C:N4	74:B1:3567:OHX:N5	2.28	0.82
29:B1:2405:C:H2'	29:B1:2405:C:O2	1.78	0.82
29:B1:2663:G:H5'	29:B1:2664:C:OP2	1.80	0.82
29:B1:2915:U:H2'	29:B1:2915:U:O2	1.78	0.82
30:B2:41:G:H2'	30:B2:41:G:N3	1.92	0.82
34:BC:12:GLY:O	34:BC:13:HIS:C	2.23	0.82
62:Bg:60:CYS:CB	74:Bg:101:OHX:N5	2.43	0.82
1:C1:259:U:C5	1:C1:261:U:O4	2.33	0.82
1:C1:624:G:H1'	1:C1:1027:A:C4	2.15	0.82
1:C1:690:G:H2'	1:C1:691:C:H5'	1.62	0.82
1:C1:862:A:C8	1:C1:963:A:C6	2.68	0.82
1:C1:1006:C:H5"	1:C1:1007:C:OP2	1.80	0.82
1:C1:1647:U:H2'	1:C1:1648:A:C8	2.15	0.82
29:D1:122:A:H2'	29:D1:123:A:H8	1.45	0.82
29:D1:150:A:N7	29:D1:151:A:N6	2.27	0.82
29:D1:160:G:H1	29:D1:261:U:H3	1.24	0.82
29:D1:773:G:C2'	29:D1:774:G:H8	1.92	0.82
29:D1:921:A:H3'	29:D1:921:A:OP1	1.79	0.82
29:D1:1192:C:P	29:D1:1192:C:C3'	2.68	0.82
29:D1:1471:U:O2'	29:D1:1472:U:H5'	1.80	0.82
29:D1:3201:C:P	29:D1:3201:C:O4'	2.38	0.82
29:D1:3327:G:C2	29:D1:3328:G:C8	2.68	0.82
29:D1:3377:G:H1'	29:D1:3378:C:OP1	1.79	0.82
1:A1:776:G:C2	1:A1:785:U:O2	2.33	0.81
1:A1:1378:U:H3'	1:A1:1379:C:C5'	2.10	0.81
1:A1:1657:U:H1'	1:A1:1658:G:OP2	1.80	0.81
1:A1:1771:U:H2'	1:A1:1772:C:H6	1.42	0.81
2:AA:26:ALA:HA	2:AA:164:ASN:HA	1.61	0.81
14:AM:58:ALA:O	14:AM:62:ALA:HB2	1.80	0.81
29:B1:46:U:H2'	29:B1:47:C:H5'	1.61	0.81
29:B1:145:G:H5"	29:B1:146:U:OP2	1.80	0.81
29:B1:209:A:O2'	29:B1:210:U:O2	1.96	0.81
29:B1:751:A:H5"	29:B1:752:C:OP2	1.80	0.81
29:B1:953:G:H4'	29:B1:954:U:H6	1.42	0.81
29:B1:2918:G:N2	29:B1:2919:A:N7	2.28	0.81
29:B1:3260:G:H3'	29:B1:3261:C:C5'	2.08	0.81
36:BE:43:LYS:H	49:BT:69:LYS:CB	1.93	0.81
40:BI:100:ASN:O	40:BI:114:VAL:HA	1.79	0.81
43:BN:10:SER:H	43:BN:11:ASN:HA	1.43	0.81
1:C1:177:U:H3'	1:C1:178:U:H5"	1.59	0.81
1:C1:322:G:C4'	1:C1:323:A:OP1	2.27	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:650:U:N3	1:C1:684:A:N6	1.90	0.81
1:C1:921:U:H2'	1:C1:922:G:C8	2.14	0.81
1:C1:1540:G:H2'	1:C1:1541:G:O4'	1.80	0.81
1:C1:1633:A:C1'	1:C1:1634:C:OP2	2.28	0.81
14:CM:128:GLY:O	14:CM:130:ARG:N	2.13	0.81
29:D1:188:U:O2	29:D1:222:A:H2	1.63	0.81
29:D1:1080:A:C4	29:D1:1082:U:H5"	2.15	0.81
29:D1:3210:A:C5	29:D1:3211:C:N4	2.48	0.81
29:D1:3218:A:O2'	29:D1:3219:G:O5'	1.98	0.81
29:D1:3260:G:H3'	29:D1:3261:C:C5'	2.06	0.81
30:D2:3:U:C2	30:D2:4:U:C5	2.68	0.81
30:D2:64:A:N6	30:D2:111:U:C4	2.48	0.81
31:D3:49:G:C6	31:D3:50:C:C5	2.68	0.81
34:DC:261:MET:C	34:DC:263:SER:N	2.29	0.81
45:DP:17:GLY:O	45:DP:20:ALA:HB3	1.78	0.81
1:A1:829:A:H1'	1:A1:830:U:O5'	1.80	0.81
1:A1:1642:G:O6	74:A1:1901:OHX:N3	2.13	0.81
29:B1:363:G:C3'	29:B1:364:G:H5"	2.09	0.81
29:B1:608:A:H3'	29:B1:608:A:C8	2.15	0.81
29:B1:953:G:H3'	29:B1:953:G:C8	2.15	0.81
29:B1:2253:G:N7	29:B1:2254:U:C4	2.48	0.81
29:B1:2580:A:H1'	29:B1:2581:U:OP2	1.80	0.81
38:BG:49:ALA:O	38:BG:51:TYR:N	2.13	0.81
44:BO:83:LYS:H	44:BO:85:THR:N	1.78	0.81
6:CE:142:ASN:O	6:CE:144:PRO:N	2.13	0.81
14:CM:28:LEU:C	14:CM:30:VAL:H	1.87	0.81
21:CT:301:LEU:CB	21:CT:313:TRP:O	2.28	0.81
24:Cc:51:UNK:HA	24:Cc:65:UNK:HA	1.60	0.81
29:D1:69:C:N4	29:D1:70:A:H8	1.78	0.81
29:D1:120:G:H5'	29:D1:121:A:OP2	1.79	0.81
29:D1:155:G:H2'	29:D1:155:G:OP1	1.80	0.81
29:D1:325:A:H3'	29:D1:327:A:OP1	1.79	0.81
29:D1:591:G:O2'	29:D1:592:A:H5'	1.79	0.81
29:D1:1939:G:C2'	29:D1:1940:G:H5'	2.10	0.81
29:D1:3201:C:C2	29:D1:3202:G:C8	2.67	0.81
30:D2:69:C:H3'	30:D2:70:U:H6	1.44	0.81
47:DR:154:GLY:N	47:DR:155:MET:HA	1.91	0.81
1:A1:87:C:C3'	1:A1:88:U:H5"	2.09	0.81
1:A1:239:C:H4'	1:A1:240:U:H5'	1.59	0.81
1:A1:587:C:H2'	1:A1:588:U:O4'	1.80	0.81
1:A1:1118:G:H2'	1:A1:1119:G:C8	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1201:G:H2'	1:A1:1202:A:C4'	2.06	0.81
1:A1:1204:A:C3'	1:A1:1205:C:H5"	2.06	0.81
1:A1:1523:G:H4'	1:A1:1524:A:OP2	1.80	0.81
3:AB:239:PRO:C	3:AB:241:ASP:H	1.86	0.81
6:AE:123:HIS:O	6:AE:125:ALA:N	2.12	0.81
29:B1:120:G:H5'	29:B1:121:A:OP2	1.79	0.81
29:B1:304:G:H3'	29:B1:304:G:OP2	1.80	0.81
29:B1:411:U:O2'	29:B1:412:G:H5'	1.80	0.81
29:B1:575:G:H2'	29:B1:576:C:C6	2.15	0.81
29:B1:592:A:H2'	29:B1:593:C:C1'	2.10	0.81
29:B1:592:A:C3'	29:B1:593:C:C4'	2.46	0.81
29:B1:645:A:H4'	29:B1:646:A:OP1	1.79	0.81
29:B1:703:G:N3	29:B1:703:G:H2'	1.93	0.81
29:B1:1063:G:O2'	29:B1:1064:A:N3	2.14	0.81
29:B1:1213:G:H5'	29:B1:1213:G:C8	2.13	0.81
29:B1:1507:G:OP2	29:B1:1507:G:C8	2.33	0.81
29:B1:1794:G:H4'	29:B1:1795:U:OP2	1.78	0.81
29:B1:2565:U:H2'	29:B1:2566:C:H6	1.43	0.81
29:B1:3209:A:C2	29:B1:3210:A:C2	2.68	0.81
29:B1:3212:C:C4	29:B1:3213:A:C2	2.69	0.81
29:B1:3280:U:OP2	29:B1:3280:U:H2'	1.81	0.81
29:B1:3299:A:N3	29:B1:3300:U:C5	2.47	0.81
30:B2:61:G:H2'	30:B2:62:U:H6	1.45	0.81
30:B2:69:C:H3'	30:B2:70:U:H6	1.44	0.81
31:B3:22:U:H4'	31:B3:23:U:OP1	1.80	0.81
40:BI:63:LYS:O	40:BI:66:ALA:N	2.13	0.81
1:C1:34:G:C6	1:C1:475:A:N6	2.47	0.81
1:C1:357:G:H2'	1:C1:358:U:C6	2.14	0.81
1:C1:1119:G:H2'	1:C1:1120:U:C6	2.14	0.81
29:D1:213:A:H2'	29:D1:214:G:O4'	1.81	0.81
29:D1:515:C:H6	29:D1:515:C:P	2.03	0.81
29:D1:528:U:H2'	29:D1:528:U:O2	1.79	0.81
29:D1:829:U:H3	29:D1:895:A:H61	1.27	0.81
29:D1:880:G:C8	29:D1:882:A:N7	2.47	0.81
29:D1:985:U:H2'	29:D1:986:U:H6	1.46	0.81
29:D1:1214:U:O2'	29:D1:1215:U:H5'	1.81	0.81
29:D1:1818:U:H2'	29:D1:1819:U:C2	2.14	0.81
29:D1:2113:A:H2'	29:D1:2114:C:C5'	2.09	0.81
29:D1:2960:C:H5"	29:D1:2961:G:OP2	1.79	0.81
30:D2:12:U:H2'	30:D2:13:A:N1	1.95	0.81
74:D3:202:OHX:N6	74:D3:212:OHX:N3	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DH:99:PRO:C	39:DH:101:THR:H	1.88	0.81
42:DK:134:PRO:C	42:DK:151:SER:O	2.23	0.81
1:A1:62:A:N3	1:A1:63:G:N7	2.29	0.81
1:A1:283:U:H2'	1:A1:284:G:O4'	1.80	0.81
1:A1:871:G:O2'	1:A1:872:G:C8	2.34	0.81
1:A1:1258:U:H2'	1:A1:1259:U:O4'	1.79	0.81
1:A1:1275:A:C8	1:A1:1275:A:OP1	2.33	0.81
24:Ac:47:UNK:O	24:Ac:67:UNK:HA	1.81	0.81
29:B1:871:U:H2'	29:B1:872:U:C6	2.15	0.81
29:B1:2716:U:H3'	29:B1:2717:U:H5"	1.62	0.81
1:C1:1560:U:O2	1:C1:1561:U:H5	1.62	0.81
29:D1:385:A:C2	29:D1:386:A:C5	2.68	0.81
29:D1:572:A:C5	29:D1:573:C:C5	2.68	0.81
29:D1:980:A:N6	29:D1:1104:G:H8	1.78	0.81
29:D1:1495:U:C2	29:D1:1842:A:C2	2.65	0.81
29:D1:1782:U:OP2	29:D1:1782:U:H6	1.61	0.81
29:D1:1927:G:N2	29:D1:1928:G:C8	2.48	0.81
29:D1:2560:C:H3'	29:D1:2561:A:H5"	1.62	0.81
29:D1:3121:U:O2	29:D1:3122:A:C8	2.32	0.81
1:A1:125:U:O5'	1:A1:125:U:H6	1.63	0.81
1:A1:321:C:O2'	1:A1:322:G:H5'	1.79	0.81
1:A1:402:C:C2'	1:A1:403:G:H5'	2.08	0.81
1:A1:606:A:H4'	1:A1:607:G:H3'	1.60	0.81
1:A1:825:U:C5	1:A1:847:A:C6	2.63	0.81
1:A1:1456:C:H5"	1:A1:1457:C:H5"	1.63	0.81
1:A1:1734:U:H2'	1:A1:1735:U:C6	2.16	0.81
9:AH:70:LYS:O	9:AH:73:GLU:CB	2.29	0.81
29:B1:37:U:H2'	29:B1:37:U:O2	1.78	0.81
29:B1:975:C:H2'	29:B1:976:U:C6	2.15	0.81
29:B1:993:G:O6	29:B1:1056:U:O4	1.99	0.81
29:B1:1130:A:H2'	29:B1:1132:C:C6	2.16	0.81
29:B1:1232:C:C2'	29:B1:1233:G:H4'	2.09	0.81
29:B1:1349:G:H8	29:B1:1349:G:OP2	1.63	0.81
29:B1:1445:U:C6	29:B1:1446:A:C8	2.68	0.81
44:BO:159:ARG:C	44:BO:161:ALA:H	1.87	0.81
1:C1:1402:G:H2'	1:C1:1403:C:H6	1.44	0.81
11:CJ:46:PHE:C	11:CJ:48:VAL:H	1.87	0.81
29:D1:72:C:H2'	29:D1:73:C:C5'	2.11	0.81
29:D1:726:G:N3	29:D1:744:A:N6	2.27	0.81
29:D1:1220:U:O3'	29:D1:1221:A:H4'	1.80	0.81
29:D1:1781:C:C2'	29:D1:1782:U:H5'	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2565:U:H2'	29:D1:2566:C:H6	1.45	0.81
29:D1:3242:G:H1	29:D1:3244:A:C2'	1.92	0.81
30:D2:12:U:C2	30:D2:70:U:OP1	2.33	0.81
30:D2:25:G:N3	30:D2:26:C:C5	2.49	0.81
46:DQ:5:GLY:H	46:DQ:6:ALA:HA	1.45	0.81
46:DQ:9:THR:HA	46:DQ:14:SER:H	1.43	0.81
57:Db:55:ILE:O	57:Db:57:TYR:N	2.14	0.81
1:A1:340:U:H3'	1:A1:341:A:H8	1.44	0.81
1:A1:1650:U:C3'	1:A1:1651:A:H8	1.94	0.81
17:AP:48:HIS:HA	17:AP:105:ALA:HB2	1.61	0.81
29:B1:210:U:H4'	29:B1:211:A:O5'	1.80	0.81
29:B1:1174:G:C2	29:B1:1175:C:C5	2.68	0.81
29:B1:1334:U:H5"	38:BG:206:LYS:O	1.80	0.81
29:B1:2386:A:C4	29:B1:2994:A:C2	2.68	0.81
29:B1:2465:G:H2'	29:B1:2466:G:H8	1.46	0.81
31:B3:49:G:C6	31:B3:50:C:C5	2.67	0.81
41:BJ:177:ASP:CA	41:BJ:179:PRO:N	2.32	0.81
1:C1:1097:U:C2'	1:C1:1098:U:H5'	2.10	0.81
1:C1:1109:G:C2	1:C1:1110:G:N7	2.49	0.81
29:D1:501:A:N6	29:D1:502:U:O4	2.13	0.81
29:D1:593:C:H3'	29:D1:609:G:H22	1.44	0.81
29:D1:609:G:H3'	29:D1:609:G:P	2.19	0.81
29:D1:751:A:H5"	29:D1:752:C:OP2	1.81	0.81
29:D1:2861:U:H2'	29:D1:2862:U:H6	1.45	0.81
29:D1:3378:C:O2	29:D1:3378:C:H2'	1.80	0.81
56:Da:82:GLU:CB	56:Da:83:GLU:HA	2.10	0.81
1:A1:106:U:C4	1:A1:107:C:C4	2.68	0.81
1:A1:527:A:OP1	1:A1:528:U:H3'	1.80	0.81
1:A1:989:U:H2'	1:A1:990:C:H6	1.44	0.81
1:A1:1198:G:H3'	1:A1:1199:G:H5'	1.60	0.81
1:A1:1378:U:H5'	1:A1:1379:C:H6	1.42	0.81
1:A1:1525:A:H2'	1:A1:1526:A:H8	1.45	0.81
1:A1:1580:C:H4'	1:A1:1581:C:OP1	1.80	0.81
29:B1:315:C:C2	29:B1:316:U:C5	2.69	0.81
29:B1:612:U:H1'	29:B1:613:G:N7	1.95	0.81
29:B1:2376:G:C6	29:B1:2377:G:C6	2.69	0.81
29:B1:3141:A:H4'	29:B1:3142:A:O5'	1.80	0.81
29:B1:3244:A:C8	29:B1:3245:A:C8	2.69	0.81
29:B1:3365:U:H2'	29:B1:3366:G:C8	2.15	0.81
29:B1:3386:G:H2'	29:B1:3387:U:H6	1.42	0.81
33:BB:182:ALA:O	33:BB:184:ARG:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:871:G:HO2'	1:C1:872:G:H8	0.81	0.81
2:CA:35:PRO:O	2:CA:37:VAL:N	2.14	0.81
29:D1:498:A:H2'	29:D1:499:G:C8	2.16	0.81
29:D1:945:C:C2	29:D1:946:U:C5	2.69	0.81
29:D1:1129:A:C6	29:D1:1130:A:C6	2.68	0.81
29:D1:1324:U:C5'	29:D1:1324:U:H6	1.93	0.81
29:D1:1608:C:H2'	29:D1:1609:C:H5'	1.62	0.81
29:D1:2390:A:C4'	29:D1:3307:A:C2	2.63	0.81
29:D1:2680:A:OP1	29:D1:2681:U:H5	1.62	0.81
29:D1:2897:A:C8	29:D1:2899:C:O4'	2.33	0.81
1:A1:283:U:H3'	1:A1:284:G:H5"	1.63	0.81
1:A1:1092:A:C5	1:A1:1094:G:C8	2.69	0.81
5:AD:59:VAL:C	5:AD:61:TYR:H	1.89	0.81
29:B1:72:C:H2'	29:B1:73:C:C5'	2.08	0.81
29:B1:761:A:C2	29:B1:762:U:H1'	2.15	0.81
29:B1:1063:G:H5'	29:B1:1098:A:O5'	1.81	0.81
29:B1:1255:C:N4	74:B1:3567:OHX:N1	2.28	0.81
30:B2:13:A:O5'	30:B2:13:A:N3	2.14	0.81
34:BC:93:VAL:H	34:BC:99:LEU:CB	1.92	0.81
35:BD:148:ILE:HA	35:BD:149:PRO:C	2.06	0.81
59:Bd:37:CYS:N	74:Bd:101:OHX:N6	2.28	0.81
1:C1:742:U:H3'	1:C1:744:U:OP2	1.81	0.81
7:CF:122:ILE:H	7:CF:144:ALA:HB3	1.45	0.81
14:CM:99:SER:HA	14:CM:102:ARG:CB	2.11	0.81
29:D1:563:U:H2'	29:D1:564:G:H4'	1.61	0.81
29:D1:912:G:H2'	29:D1:914:A:N7	1.96	0.81
29:D1:975:C:H2'	29:D1:976:U:C5	2.16	0.81
29:D1:2655:U:H2'	61:Df:3:ASN:O	1.80	0.81
29:D1:3003:G:C2	29:D1:3004:C:C5	2.68	0.81
29:D1:3251:U:H2'	29:D1:3252:G:H8	1.44	0.81
31:D3:140:G:C6	31:D3:141:C:C4	2.69	0.81
45:DP:124:LEU:HA	45:DP:125:ARG:C	2.06	0.81
57:Db:72:LYS:CB	57:Db:92:TYR:HA	2.11	0.81
1:A1:85:A:O2'	1:A1:86:A:H8	1.64	0.81
1:A1:358:U:H5"	1:A1:359:A:OP2	1.81	0.81
1:A1:1030:A:H3'	1:A1:1031:U:H5'	1.61	0.81
1:A1:1478:G:H8	1:A1:1478:G:H5'	1.45	0.81
1:A1:1753:A:N1	1:A1:1754:A:N1	2.29	0.81
29:B1:562:C:O2'	29:B1:563:U:H5'	1.81	0.81
29:B1:595:G:N1	29:B1:609:G:O4'	2.13	0.81
29:B1:607:A:OP2	29:B1:607:A:H8	1.64	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:784:A:H2'	29:B1:785:G:H8	1.40	0.81
29:B1:835:G:C2	29:B1:857:G:N3	2.49	0.81
29:B1:2985:C:H2'	29:B1:2986:U:H6	1.44	0.81
51:BV:45:ASN:O	51:BV:47:ARG:N	2.14	0.81
53:BX:33:ALA:O	53:BX:47:ALA:HB1	1.81	0.81
58:Bc:38:ARG:CB	58:Bc:39:PRO:HA	2.11	0.81
1:C1:298:C:H6	1:C1:298:C:H3'	1.46	0.81
1:C1:1472:C:H4'	1:C1:1473:U:H5'	1.61	0.81
1:C1:1696:G:N2	1:C1:1708:U:O2	2.14	0.81
29:D1:287:G:H2'	29:D1:288:C:H6	1.45	0.81
29:D1:620:U:H4'	29:D1:621:A:OP1	1.80	0.81
29:D1:871:U:H2'	29:D1:872:U:H6	1.46	0.81
29:D1:1623:G:O6	29:D1:1822:C:N4	2.10	0.81
29:D1:2580:A:H1'	29:D1:2581:U:P	2.20	0.81
29:D1:2860:U:C5	29:D1:2938:G:H4'	2.15	0.81
29:D1:2953:U:H2'	29:D1:2954:U:H6	1.44	0.81
29:D1:3037:U:H2'	29:D1:3038:U:H6	1.45	0.81
29:D1:3113:A:C2	29:D1:3122:A:C4	2.69	0.81
29:D1:3350:C:H4'	29:D1:3354:U:H5	1.46	0.81
45:DP:137:THR:O	45:DP:140:LYS:N	2.14	0.81
26:Dj:16:UNK:O	26:Dj:20:UNK:N	2.14	0.81
29:B1:514:G:C3'	29:B1:515:C:C6	2.64	0.81
29:B1:716:A:H2'	29:B1:717:C:C1'	2.11	0.81
29:B1:1455:U:H4'	29:B1:1456:A:OP2	1.81	0.81
29:B1:1777:U:H2'	29:B1:1778:G:C8	2.15	0.81
29:B1:2725:U:C4	29:B1:2727:A:N3	2.49	0.81
29:B1:3273:A:C5	29:B1:3274:A:C8	2.68	0.81
37:BF:21:THR:HA	37:BF:112:THR:N	1.96	0.81
1:C1:534:A:H2'	1:C1:535:A:C8	2.15	0.81
1:C1:963:A:O2'	1:C1:964:U:H6	1.61	0.81
1:C1:1203:A:H4'	1:C1:1204:A:OP2	1.80	0.81
1:C1:1434:U:O3'	1:C1:1435:G:H3'	1.81	0.81
29:D1:210:U:H3	35:DD:162:THR:N	1.79	0.81
29:D1:993:G:O6	29:D1:1056:U:O4	1.99	0.81
29:D1:1449:A:C2	29:D1:2356:A:C4	2.70	0.81
29:D1:3135:U:C4	29:D1:3136:G:C5	2.69	0.81
29:D1:3324:C:O2'	29:D1:3325:G:H5'	1.80	0.81
31:D3:19:C:C6	31:D3:20:U:H5	1.98	0.81
31:D3:22:U:H4'	31:D3:23:U:OP1	1.81	0.81
31:D3:74:U:OP2	31:D3:76:C:C2	2.34	0.81
38:DG:83:LEU:HA	38:DG:84:VAL:CB	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DN:10:SER:H	43:DN:11:ASN:HA	1.45	0.81
45:DP:77:SER:O	45:DP:79:ILE:N	2.14	0.81
1:A1:1657:U:C4'	1:A1:1658:G:O5'	2.29	0.80
29:B1:1167:U:H5'	29:B1:1167:U:H6	1.46	0.80
29:B1:1287:A:C2'	29:B1:1288:U:H5'	2.12	0.80
29:B1:2675:C:H41	29:B1:2676:A:H61	1.26	0.80
29:B1:3198:U:H3'	29:B1:3199:G:C8	2.16	0.80
30:B2:64:A:C4'	30:B2:65:G:O5'	2.29	0.80
1:C1:518:A:H61	1:C1:535:A:H1'	1.45	0.80
1:C1:528:U:O5'	1:C1:529:A:H4'	1.80	0.80
1:C1:555:A:H2	1:C1:556:A:C2	1.99	0.80
17:CP:85:ALA:HB1	17:CP:123:LYS:HA	1.61	0.80
29:D1:41:G:C8	29:D1:42:C:C5	2.68	0.80
29:D1:402:A:H61	46:DQ:21:TYR:CB	1.94	0.80
29:D1:611:A:H5'	29:D1:612:U:OP1	1.81	0.80
29:D1:625:G:H2'	29:D1:626:U:H6	1.43	0.80
29:D1:694:C:H2'	29:D1:694:C:O2	1.81	0.80
29:D1:979:U:H4'	29:D1:980:A:OP1	1.81	0.80
29:D1:1777:U:H2'	29:D1:1778:G:C8	2.16	0.80
29:D1:2582:C:H5'	29:D1:2583:C:OP2	1.80	0.80
29:D1:2680:A:OP1	29:D1:2681:U:C5	2.35	0.80
29:D1:3344:A:OP2	29:D1:3344:A:H2'	1.82	0.80
1:A1:830:U:HO2'	1:A1:831:U:H6	1.28	0.80
1:A1:1132:A:C2	1:A1:1133:A:C8	2.68	0.80
29:B1:414:U:H2'	29:B1:415:G:H8	1.45	0.80
29:B1:718:G:H4'	29:B1:719:U:O5'	1.81	0.80
29:B1:762:U:C5	74:B1:3479:OHX:N3	2.50	0.80
29:B1:886:C:C2'	29:B1:887:G:H5'	2.09	0.80
29:B1:965:A:C6	29:B1:966:U:N3	2.49	0.80
29:B1:1705:U:O2'	29:B1:1706:C:O4'	1.99	0.80
29:B1:2145:A:C1'	29:B1:2958:A:H4'	2.11	0.80
29:B1:2224:A:H2'	29:B1:2225:U:O4'	1.79	0.80
29:B1:2485:A:H5'	32:BA:106:LYS:HA	1.61	0.80
29:B1:2591:A:C2	29:B1:2592:G:H1'	2.15	0.80
29:B1:3187:A:C2	29:B1:3188:G:C4	2.70	0.80
29:B1:3264:G:C3'	29:B1:3265:C:H5"	2.11	0.80
29:B1:3322:A:H2'	29:B1:3323:A:C8	2.15	0.80
31:B3:95:G:P	31:B3:95:G:H21	2.03	0.80
1:C1:10:G:C8	1:C1:1633:A:N3	2.49	0.80
1:C1:133:U:H1'	1:C1:134:U:OP1	1.80	0.80
1:C1:1149:G:O6	1:C1:1629:G:N1	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:281:G:C6	29:D1:282:G:O6	2.34	0.80
29:D1:304:G:OP2	29:D1:304:G:H3'	1.80	0.80
29:D1:409:A:N6	31:D3:15:G:H1'	1.96	0.80
29:D1:1307:G:O2'	29:D1:1308:A:OP2	2.00	0.80
29:D1:1323:G:H3'	29:D1:1324:U:C5'	2.09	0.80
29:D1:3191:G:C4	29:D1:3202:G:N2	2.49	0.80
53:DX:33:ALA:O	53:DX:47:ALA:HB1	1.81	0.80
1:A1:979:A:C2	1:A1:1775:U:H4'	2.16	0.80
1:A1:1087:A:H3'	1:A1:1088:A:C8	2.17	0.80
1:A1:1631:A:C2	1:A1:1638:G:N3	2.48	0.80
15:AN:54:GLY:HA3	15:AN:92:ASP:N	1.95	0.80
29:B1:10:C:H42	31:B3:148:G:H1	1.25	0.80
29:B1:11:A:C1'	29:B1:1557:A:N6	2.45	0.80
29:B1:43:A:N6	29:B1:2802:A:C2	2.47	0.80
29:B1:592:A:C2'	29:B1:593:C:O4'	2.22	0.80
29:B1:593:C:C4	29:B1:594:U:O2'	2.33	0.80
29:B1:1212:A:C6	29:B1:1294:A:N1	2.50	0.80
29:B1:1393:A:N7	29:B1:1418:A:C8	2.50	0.80
29:B1:1478:C:H2'	29:B1:1479:U:H6	1.41	0.80
29:B1:2285:C:C5	29:B1:2286:U:C2	2.68	0.80
29:B1:2382:G:H2'	29:B1:2383:C:O4'	1.81	0.80
29:B1:2672:G:O3'	42:BK:105:GLY:HA2	1.81	0.80
29:B1:2676:A:H4'	29:B1:2677:G:C8	2.15	0.80
29:B1:2678:A:H8	29:B1:2679:A:N3	1.79	0.80
29:B1:3307:A:O5'	29:B1:3307:A:C8	2.32	0.80
30:B2:26:C:H4'	30:B2:27:A:OP1	1.79	0.80
36:BE:199:ILE:O	36:BE:201:GLY:HA2	1.81	0.80
1:C1:86:A:O2'	1:C1:147:A:N3	2.13	0.80
1:C1:119:A:H2'	1:C1:120:U:O4'	1.82	0.80
1:C1:296:U:H2'	1:C1:297:U:C6	2.17	0.80
1:C1:1190:C:H4'	1:C1:1191:U:OP1	1.79	0.80
1:C1:1201:G:H2'	1:C1:1202:A:C4'	2.07	0.80
1:C1:1398:U:O2'	1:C1:1399:C:H3'	1.81	0.80
29:D1:422:A:H1'	29:D1:423:A:H5'	1.62	0.80
29:D1:596:C:H3'	29:D1:597:G:H5"	1.62	0.80
29:D1:2729:U:H4'	29:D1:2730:G:OP2	1.81	0.80
29:D1:3127:A:H3'	29:D1:3128:G:C8	2.16	0.80
29:D1:3394:U:H2'	29:D1:3395:G:N7	1.95	0.80
30:D2:55:A:OP2	30:D2:55:A:H3'	1.81	0.80
30:D2:106:U:C2	30:D2:107:C:C5	2.69	0.80
31:D3:19:C:C5	31:D3:20:U:H5	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:161:LEU:HA	34:DC:179:ALA:O	1.81	0.80
37:DF:161:ALA:O	37:DF:165:LEU:CB	2.29	0.80
1:A1:304:U:O2	1:A1:304:U:H2'	1.82	0.80
1:A1:527:A:H3'	1:A1:528:U:H5'	1.62	0.80
1:A1:764:U:H3	1:A1:772:G:H1	1.27	0.80
3:AB:148:LEU:HA	3:AB:194:GLU:H	1.47	0.80
14:AM:128:GLY:O	14:AM:130:ARG:N	2.14	0.80
29:B1:421:G:N2	29:B1:2365:C:C2	2.50	0.80
29:B1:660:A:C2	29:B1:1435:A:H2	2.00	0.80
29:B1:1001:G:OP2	29:B1:1001:G:H4'	1.79	0.80
29:B1:1157:G:N3	29:B1:1158:A:H1'	1.96	0.80
29:B1:2520:A:C4	29:B1:2521:U:N3	2.50	0.80
29:B1:3019:U:C5	29:B1:3020:U:C5	2.70	0.80
29:B1:3281:U:N3	29:B1:3282:U:C4	2.48	0.80
30:B2:91:G:C5	30:B2:92:A:N7	2.49	0.80
31:B3:70:G:H3'	31:B3:71:A:C8	2.17	0.80
1:C1:380:U:H2'	1:C1:381:C:H6	1.44	0.80
1:C1:480:G:N2	1:C1:508:U:H3	1.78	0.80
1:C1:1351:G:C5	1:C1:1352:G:N7	2.50	0.80
1:C1:1521:G:O6	74:C1:1930:OHX:N3	2.14	0.80
1:C1:1735:U:H2'	1:C1:1736:G:C8	2.17	0.80
29:D1:578:A:O2'	29:D1:579:G:OP2	1.99	0.80
29:D1:718:G:H4'	29:D1:719:U:O5'	1.81	0.80
29:D1:2145:A:C1'	29:D1:2958:A:H4'	2.12	0.80
29:D1:2285:C:C5	29:D1:2286:U:C2	2.69	0.80
29:D1:2743:A:H3'	29:D1:2744:U:H6	1.45	0.80
29:D1:3199:G:H3'	29:D1:3200:G:H8	1.45	0.80
30:D2:91:G:C4	30:D2:92:A:C8	2.69	0.80
34:DC:230:THR:O	34:DC:234:GLY:HA2	1.81	0.80
54:DY:137:LYS:O	54:DY:140:ALA:HB3	1.81	0.80
1:A1:611:U:O2	7:AF:96:LYS:HA	1.82	0.80
1:A1:1696:G:N2	1:A1:1708:U:O2	2.14	0.80
29:B1:164:A:N6	29:B1:165:A:C6	2.50	0.80
29:B1:773:G:H2'	29:B1:774:G:C8	2.17	0.80
29:B1:1150:A:N7	29:B1:1310:G:H5"	1.97	0.80
29:B1:1178:G:H2'	29:B1:1179:A:H5'	1.62	0.80
29:B1:1615:C:H2'	29:B1:1616:U:H6	1.46	0.80
29:B1:1778:G:H4'	29:B1:1779:C:N3	1.96	0.80
29:B1:2149:A:H4'	33:BB:178:PRO:O	1.82	0.80
29:B1:2272:G:H4'	29:B1:2273:G:OP1	1.81	0.80
29:B1:2643:A:C5'	29:B1:2644:C:OP2	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2943:G:H2'	29:B1:2944:U:O4'	1.81	0.80
45:BP:58:LEU:HA	45:BP:61:ALA:HB2	1.62	0.80
45:BP:124:LEU:CA	45:BP:126:VAL:H	1.94	0.80
1:C1:20:G:H4'	1:C1:571:G:C2	2.16	0.80
1:C1:169:A:N7	1:C1:171:A:N6	2.29	0.80
1:C1:172:C:O2'	1:C1:173:A:C5'	2.30	0.80
1:C1:310:C:H2'	1:C1:311:U:O5'	1.82	0.80
1:C1:533:U:H3'	1:C1:534:A:H8	1.45	0.80
1:C1:791:A:H2'	1:C1:792:U:H6	1.46	0.80
1:C1:833:U:H3'	1:C1:834:G:H5"	1.61	0.80
1:C1:1654:G:H2'	1:C1:1745:G:N2	1.97	0.80
29:D1:536:U:H6	29:D1:536:U:OP2	1.64	0.80
29:D1:721:G:H3'	29:D1:721:G:N3	1.96	0.80
29:D1:992:A:N1	29:D1:993:G:N7	2.29	0.80
29:D1:1152:G:H8	29:D1:1152:G:O5'	1.64	0.80
29:D1:1366:A:C2	29:D1:1367:G:C4	2.69	0.80
29:D1:2295:A:C6	29:D1:2296:A:N6	2.49	0.80
29:D1:2676:A:O2'	29:D1:2677:G:H5"	1.82	0.80
29:D1:2900:A:C2	29:D1:2901:G:C8	2.69	0.80
29:D1:3305:A:C4	29:D1:3306:U:O2	2.35	0.80
30:D2:38:U:O2'	30:D2:40:C:H5"	1.80	0.80
46:DQ:33:ALA:O	46:DQ:35:ALA:N	2.14	0.80
1:A1:133:U:H1'	1:A1:134:U:OP1	1.80	0.80
1:A1:735:C:OP2	1:A1:735:C:H3'	1.82	0.80
29:B1:504:A:C2	29:B1:587:U:O2	2.34	0.80
29:B1:637:C:C4	29:B1:638:C:N4	2.50	0.80
29:B1:759:U:C4	29:B1:773:G:C6	2.70	0.80
29:B1:1234:G:H3'	29:B1:1235:U:C5'	2.11	0.80
29:B1:1303:A:H8	29:B1:1304:A:C6	1.97	0.80
29:B1:1591:G:O2'	29:B1:1799:A:N1	2.14	0.80
29:B1:2375:G:C8	29:B1:2378:C:N4	2.49	0.80
29:B1:2522:G:H1'	29:B1:2523:A:P	2.22	0.80
29:B1:2580:A:H1'	29:B1:2581:U:P	2.21	0.80
29:B1:2650:U:C5'	29:B1:2651:G:OP2	2.29	0.80
29:B1:2912:G:C6	29:B1:3130:A:C5	2.69	0.80
29:B1:3377:G:N3	74:B1:3450:OHX:N2	2.29	0.80
30:B2:23:A:H3'	30:B2:24:A:H8	1.46	0.80
1:C1:313:U:H5	1:C1:1118:G:N1	1.79	0.80
1:C1:1132:A:C2	1:C1:1133:A:C8	2.70	0.80
9:CH:21:ALA:H	9:CH:85:ALA:HB2	1.46	0.80
29:D1:190:U:C5	29:D1:224:C:H1'	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:325:A:H3'	29:D1:327:A:OP2	1.81	0.80
29:D1:384:A:H3'	29:D1:385:A:C8	2.11	0.80
29:D1:606:C:C2'	29:D1:607:A:C1'	2.59	0.80
29:D1:661:G:N1	29:D1:802:C:C6	2.50	0.80
29:D1:840:C:C2'	29:D1:841:A:H5'	2.11	0.80
29:D1:953:G:H4'	29:D1:954:U:H6	1.47	0.80
29:D1:1174:G:C6	29:D1:1318:A:C2	2.70	0.80
29:D1:1912:U:O2'	29:D1:1913:A:O5'	2.00	0.80
29:D1:2284:C:H2'	29:D1:2285:C:O2	1.82	0.80
29:D1:3237:U:H2'	29:D1:3238:G:C8	2.16	0.80
30:D2:60:G:H2'	30:D2:61:G:H8	1.46	0.80
31:D3:70:G:H3'	31:D3:71:A:C8	2.17	0.80
40:DI:63:LYS:O	40:DI:66:ALA:N	2.14	0.80
44:DO:186:GLY:N	44:DO:187:ARG:HA	1.96	0.80
46:DQ:98:ALA:O	46:DQ:99:ALA:C	2.25	0.80
1:A1:44:U:C5'	1:A1:45:U:C5	2.63	0.80
29:B1:515:C:C2	29:B1:516:A:C8	2.70	0.80
29:B1:564:G:H3'	29:B1:565:U:C6	2.17	0.80
29:B1:1075:A:C2	69:Bp:245:UNK:C	2.65	0.80
29:B1:1211:U:H2'	29:B1:1212:A:H8	1.46	0.80
29:B1:1288:U:O2'	29:B1:1289:G:H5'	1.80	0.80
29:B1:2253:G:H3'	29:B1:2254:U:C5	2.16	0.80
29:B1:2293:C:C5	29:B1:2294:U:H5	1.97	0.80
29:B1:2702:A:H8	29:B1:2704:A:C6	2.00	0.80
29:B1:2993:G:H2'	29:B1:2993:G:N3	1.95	0.80
29:B1:3068:U:OP1	48:BS:58:HIS:HA	1.82	0.80
29:B1:3151:U:OP2	29:B1:3152:U:OP1	1.99	0.80
31:B3:40:A:N3	31:B3:41:A:C8	2.49	0.80
1:C1:246:G:O6	1:C1:247:A:C2	2.34	0.80
1:C1:350:U:H4'	1:C1:352:A:C8	2.16	0.80
1:C1:743:U:N3	1:C1:809:A:H2	1.73	0.80
1:C1:1474:G:C2	1:C1:1475:A:C5	2.70	0.80
1:C1:1646:C:O2	1:C1:1646:C:H2'	1.81	0.80
29:D1:190:U:C6	29:D1:224:C:O4'	2.35	0.80
29:D1:425:G:C8	29:D1:425:G:C5'	2.65	0.80
29:D1:515:C:C2	29:D1:516:A:C8	2.69	0.80
29:D1:716:A:H2'	29:D1:717:C:C1'	2.11	0.80
29:D1:945:C:H1'	29:D1:1407:A:H1'	1.61	0.80
29:D1:1899:G:C2	29:D1:2334:U:C5	2.70	0.80
29:D1:2173:U:H2'	29:D1:2174:G:C8	2.17	0.80
29:D1:2268:U:H2'	29:D1:2269:U:C5	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2490:C:H1'	29:D1:2491:A:N7	1.97	0.80
29:D1:2642:A:H5"	29:D1:2643:A:OP2	1.82	0.80
29:D1:2948:C:H2'	29:D1:2949:U:C6	2.15	0.80
29:D1:3203:U:OP2	29:D1:3203:U:C6	2.34	0.80
30:D2:114:U:H5'	30:D2:115:G:OP2	1.81	0.80
34:DC:46:PHE:O	34:DC:47:LEU:CB	2.28	0.80
1:A1:515:A:N6	1:A1:537:G:H1	1.79	0.80
1:A1:871:G:HO2'	1:A1:872:G:H8	1.29	0.80
15:AN:21:LYS:N	15:AN:92:ASP:HA	1.97	0.80
17:AP:132:LEU:N	17:AP:133:LEU:CA	2.45	0.80
29:B1:39:A:H5'	29:B1:40:A:OP2	1.81	0.80
29:B1:288:C:H2'	29:B1:289:A:C8	2.16	0.80
29:B1:504:A:H2	29:B1:587:U:O2	1.64	0.80
29:B1:560:G:H2'	29:B1:561:C:C5	2.17	0.80
29:B1:761:A:H3'	29:B1:762:U:H5"	1.64	0.80
29:B1:1166:G:C2'	29:B1:1167:U:H5"	2.12	0.80
29:B1:1609:C:OP2	29:B1:1609:C:H2'	1.80	0.80
30:B2:16:U:H2'	30:B2:17:A:H8	1.46	0.80
34:BC:159:ARG:O	34:BC:160:VAL:CB	2.30	0.80
43:BN:49:PRO:N	43:BN:50:LYS:HA	1.96	0.80
1:C1:1196:A:H4'	1:C1:1197:C:C5'	2.12	0.80
1:C1:1600:A:HO2'	1:C1:1602:C:H5	0.82	0.80
29:D1:15:C:H4'	29:D1:16:A:OP1	1.82	0.80
29:D1:705:A:H4'	29:D1:706:A:H5'	1.63	0.80
29:D1:1095:U:H2'	29:D1:1095:U:O2	1.81	0.80
29:D1:1196:C:H5	29:D1:1197:A:H62	0.85	0.80
29:D1:1303:A:C8	29:D1:1304:A:C5	2.70	0.80
29:D1:1340:G:H2'	29:D1:1341:U:H6	1.46	0.80
29:D1:1844:C:C2	29:D1:1845:G:C8	2.69	0.80
29:D1:2257:C:H3'	29:D1:2258:U:H6	1.46	0.80
29:D1:3131:U:H2'	29:D1:3131:U:O2	1.81	0.80
29:D1:3189:G:N3	29:D1:3190:C:C6	2.50	0.80
30:D2:12:U:H5'	30:D2:68:C:C2'	2.11	0.80
37:DF:136:GLU:C	37:DF:138:GLN:H	1.85	0.80
40:DI:73:SER:O	40:DI:76:ASP:N	2.13	0.80
1:A1:407:A:H2'	1:A1:408:C:H6	1.47	0.80
1:A1:515:A:H61	1:A1:537:G:H1	1.26	0.80
1:A1:647:G:C2	1:A1:687:G:C2	2.70	0.80
1:A1:1536:G:H2'	1:A1:1536:G:N3	1.97	0.80
29:B1:69:C:N4	29:B1:70:A:H8	1.79	0.80
29:B1:591:G:O2'	29:B1:592:A:H5'	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:721:G:H3'	29:B1:721:G:N3	1.96	0.80
29:B1:723:U:H2'	29:B1:724:U:H5'	1.61	0.80
29:B1:1192:C:OP2	29:B1:1192:C:C2	2.35	0.80
29:B1:1781:C:C2'	29:B1:1782:U:H5'	2.12	0.80
29:B1:3023:U:H2'	29:B1:3024:A:H8	1.45	0.80
59:Bd:7:SER:O	59:Bd:9:GLY:N	2.15	0.80
26:Bj:6:UNK:O	26:Bj:10:UNK:CB	2.30	0.80
1:C1:224:C:N4	1:C1:838:G:N1	2.30	0.80
1:C1:973:A:C1'	29:D1:847:A:H2	1.95	0.80
1:C1:1593:A:O2'	1:C1:1594:G:H5'	1.82	0.80
9:CH:21:ALA:N	9:CH:85:ALA:HB2	1.96	0.80
29:D1:13:A:H61	31:D3:144:G:H1	1.29	0.80
29:D1:219:A:H2	29:D1:1390:A:H2'	1.46	0.80
29:D1:284:A:N6	29:D1:2785:A:C4'	2.45	0.80
29:D1:344:A:C4	29:D1:345:G:C8	2.70	0.80
29:D1:608:A:C6	29:D1:609:G:N7	2.50	0.80
29:D1:1927:G:H3'	29:D1:1927:G:N3	1.96	0.80
29:D1:2376:G:C6	29:D1:2377:G:O6	2.35	0.80
29:D1:2376:G:N1	29:D1:2377:G:N1	2.30	0.80
29:D1:2684:C:C6	29:D1:2684:C:C5'	2.56	0.80
29:D1:3114:A:N7	29:D1:3115:C:C6	2.50	0.80
30:D2:38:U:H3'	30:D2:40:C:OP2	1.82	0.80
30:D2:73:C:N3	30:D2:74:C:C5	2.49	0.80
36:DE:159:VAL:C	36:DE:161:GLY:H	1.90	0.80
1:A1:521:A:H3'	1:A1:523:G:N7	1.97	0.80
1:A1:1243:G:C5	1:A1:1244:A:N6	2.45	0.80
1:A1:1483:A:H1'	1:A1:1524:A:H62	1.47	0.80
1:A1:1558:U:H6	1:A1:1559:A:H5"	1.44	0.80
2:AA:130:ALA:C	2:AA:132:ALA:H	1.89	0.80
29:B1:580:C:C2	29:B1:581:U:H5	1.99	0.80
29:B1:707:U:H5"	29:B1:782:U:O2'	1.82	0.80
29:B1:980:A:N6	29:B1:1104:G:H8	1.80	0.80
29:B1:1405:U:H2'	29:B1:1406:A:C8	2.17	0.80
29:B1:1441:G:O2'	29:B1:1442:U:H5"	1.80	0.80
29:B1:1448:U:C5	29:B1:2355:G:C2	2.69	0.80
29:B1:1484:U:H1'	29:B1:1485:G:OP1	1.80	0.80
29:B1:1596:C:H2'	29:B1:1597:C:C6	2.17	0.80
29:B1:1687:U:O3'	29:B1:1688:U:H4'	1.79	0.80
1:C1:364:G:N2	1:C1:381:C:C6	2.50	0.80
1:C1:1552:U:O2	1:C1:1552:U:H2'	1.82	0.80
29:D1:1120:A:H5'	29:D1:1121:U:OP2	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1625:A:H3'	29:D1:1626:U:C4'	2.12	0.80
29:D1:1640:G:O2'	29:D1:1641:U:H6	1.63	0.80
29:D1:2599:U:H2'	29:D1:2600:C:H6	1.46	0.80
29:D1:3367:C:C2'	29:D1:3368:U:H5"	2.12	0.80
37:DF:2:SER:O	38:DG:79:ALA:HB3	1.80	0.80
1:A1:650:U:C2'	1:A1:651:G:H5"	2.11	0.79
1:A1:1468:U:O2'	1:A1:1469:A:O5'	1.98	0.79
1:A1:1485:C:H3'	1:A1:1486:G:H5"	1.61	0.79
1:A1:1584:G:N3	11:AJ:124:PRO:HA	1.95	0.79
1:A1:1631:A:H5'	1:A1:1764:C:O2'	1.82	0.79
29:B1:118:U:H3	29:B1:150:A:H61	0.81	0.79
29:B1:608:A:H2'	29:B1:609:G:O5'	1.81	0.79
29:B1:822:G:H2'	29:B1:823:C:C6	2.13	0.79
29:B1:1194:G:C8	29:B1:1319:G:H4'	2.16	0.79
29:B1:3028:G:C2	29:B1:3029:A:C2	2.70	0.79
29:B1:3181:C:C6	45:BP:167:TYR:CB	2.65	0.79
29:B1:3363:U:H3'	29:B1:3364:C:H6	1.44	0.79
43:BN:33:ALA:CB	43:BN:48:GLY:H	1.94	0.79
44:BO:85:THR:HA	44:BO:87:GLN:N	1.97	0.79
45:BP:147:TRP:CB	45:BP:148:LYS:HA	2.13	0.79
47:BR:154:GLY:N	47:BR:155:MET:HA	1.92	0.79
1:C1:162:A:C3'	1:C1:163:G:H8	1.95	0.79
1:C1:1018:U:H2'	1:C1:1019:A:H8	1.47	0.79
1:C1:1242:A:C4'	10:CI:78:THR:HA	2.11	0.79
29:D1:406:G:N3	31:D3:16:G:C2	2.50	0.79
29:D1:2337:C:O2'	29:D1:2338:C:H5'	1.82	0.79
29:D1:2676:A:H2	29:D1:2680:A:C6	2.00	0.79
29:D1:3000:A:H2'	29:D1:3001:C:C6	2.17	0.79
29:D1:3141:A:H5"	29:D1:3143:C:C2	2.17	0.79
30:D2:3:U:H2'	30:D2:4:U:H6	1.47	0.79
1:A1:16:G:H2'	1:A1:17:C:H6	1.47	0.79
1:A1:20:G:H4'	1:A1:571:G:C2	2.16	0.79
1:A1:173:A:C2	1:A1:174:U:C1'	2.64	0.79
1:A1:353:A:N7	1:A1:354:C:C5	2.50	0.79
1:A1:427:C:O4'	1:A1:459:G:O2'	2.01	0.79
1:A1:1055:U:O4	1:A1:1064:G:O6	2.01	0.79
1:A1:1109:G:C2	1:A1:1110:G:C8	2.70	0.79
1:A1:1556:A:H2'	1:A1:1560:U:C4	2.17	0.79
1:A1:1763:A:H3'	1:A1:1764:C:H5"	1.64	0.79
29:B1:10:C:N4	31:B3:148:G:N1	2.29	0.79
29:B1:597:G:N1	29:B1:607:A:C2	2.51	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:613:G:O2'	29:B1:614:C:H5'	1.82	0.79
29:B1:720:A:C8	29:B1:720:A:O5'	2.35	0.79
29:B1:781:G:C6	29:B1:782:U:C4	2.70	0.79
29:B1:1351:U:O2	29:B1:1351:U:H2'	1.80	0.79
29:B1:1804:A:H2'	29:B1:1805:C:H6	1.46	0.79
29:B1:1877:U:H4'	29:B1:1878:G:OP2	1.81	0.79
29:B1:2490:C:H1'	29:B1:2491:A:N7	1.97	0.79
29:B1:2560:C:H3'	29:B1:2561:A:H5"	1.63	0.79
29:B1:2998:U:H2'	29:B1:2999:U:C6	2.16	0.79
74:B1:3492:OHX:N1	54:BY:20:GLY:HA3	1.97	0.79
30:B2:69:C:H3'	30:B2:70:U:C6	2.17	0.79
37:BF:43:LEU:H	37:BF:84:VAL:CB	1.95	0.79
52:BW:69:SER:H	52:BW:72:ALA:HB3	1.46	0.79
71:Br:8:UNK:C	71:Br:10:UNK:N	2.43	0.79
1:C1:213:A:H2'	1:C1:214:G:H5'	1.64	0.79
1:C1:1388:A:C5	1:C1:1411:A:C6	2.70	0.79
2:CA:130:ALA:C	2:CA:132:ALA:H	1.90	0.79
3:CB:203:LYS:O	3:CB:205:ARG:N	2.15	0.79
29:D1:31:C:C2'	29:D1:32:U:H5'	2.13	0.79
29:D1:592:A:H3'	29:D1:593:C:H4'	1.63	0.79
29:D1:620:U:OP2	29:D1:620:U:C6	2.35	0.79
29:D1:2287:C:C2	29:D1:2298:U:O2	2.36	0.79
29:D1:2293:C:H5	29:D1:2294:U:C5	2.00	0.79
29:D1:2998:U:H5"	29:D1:2998:U:C6	2.17	0.79
29:D1:3090:U:O2'	29:D1:3091:A:OP1	1.98	0.79
29:D1:3301:U:OP1	29:D1:3301:U:C2	2.34	0.79
54:DY:80:THR:C	54:DY:82:ILE:H	1.89	0.79
1:A1:741:C:O2'	1:A1:742:U:O5'	2.00	0.79
3:AB:185:LYS:O	3:AB:188:LEU:N	2.15	0.79
29:B1:26:A:H2'	29:B1:27:C:H6	1.47	0.79
29:B1:327:A:C2	29:B1:328:U:C4	2.70	0.79
29:B1:342:A:C2	29:B1:349:A:C8	2.70	0.79
29:B1:504:A:C8	29:B1:504:A:C3'	2.63	0.79
29:B1:1139:G:C5'	29:B1:1139:G:C8	2.65	0.79
29:B1:1528:G:H2'	29:B1:1529:A:H8	1.47	0.79
29:B1:1941:C:N4	29:B1:2107:A:H61	1.79	0.79
29:B1:2739:A:H5"	29:B1:2740:A:OP2	1.83	0.79
29:B1:3063:C:H2'	29:B1:3064:U:C6	2.18	0.79
29:B1:3383:G:C2	29:B1:3384:U:C4	2.71	0.79
30:B2:91:G:H2'	30:B2:92:A:H8	1.48	0.79
1:C1:194:U:H4'	1:C1:195:G:O5'	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:209:U:H5'	1:C1:210:A:OP2	1.82	0.79
1:C1:555:A:C2	1:C1:556:A:C2	2.70	0.79
1:C1:1028:C:H1'	1:C1:1029:U:H5"	1.65	0.79
1:C1:1377:U:H2'	1:C1:1378:U:C4'	2.12	0.79
1:C1:1525:A:H2'	1:C1:1526:A:H8	1.47	0.79
1:C1:1683:C:OP2	1:C1:1683:C:H3'	1.82	0.79
20:CS:42:CYS:O	20:CS:44:ARG:N	2.14	0.79
29:D1:9:U:H2'	29:D1:10:C:H5'	1.64	0.79
29:D1:384:A:O5'	29:D1:384:A:C8	2.34	0.79
29:D1:574:U:H5'	29:D1:574:U:H6	1.46	0.79
29:D1:588:G:C6	29:D1:612:U:H5	2.01	0.79
29:D1:1941:C:N4	29:D1:2107:A:H61	1.80	0.79
29:D1:3129:A:H5"	29:D1:3130:A:OP2	1.82	0.79
29:D1:3315:G:H1'	29:D1:3320:A:C8	2.17	0.79
31:D3:40:A:H5'	31:D3:40:A:C8	2.17	0.79
31:D3:67:U:H3'	31:D3:68:G:H8	1.47	0.79
1:A1:1296:A:H2'	1:A1:1297:G:H5"	1.62	0.79
1:A1:1327:C:H2'	1:A1:1328:G:H5'	1.65	0.79
7:AF:75:VAL:HA	7:AF:86:ILE:HA	1.62	0.79
29:B1:150:A:N7	29:B1:151:A:N6	2.29	0.79
29:B1:1901:A:H4'	29:B1:2918:G:H4'	1.65	0.79
29:B1:2680:A:OP1	29:B1:2681:U:C5	2.36	0.79
29:B1:3251:U:H2'	29:B1:3252:G:H8	1.45	0.79
1:C1:142:G:N7	1:C1:266:A:N1	2.30	0.79
1:C1:1491:U:H3'	1:C1:1492:A:H2'	1.65	0.79
1:C1:1728:A:H2'	1:C1:1729:C:H6	1.45	0.79
29:D1:100:A:H2'	29:D1:101:G:C8	2.17	0.79
29:D1:535:G:H3'	29:D1:536:U:C5	2.16	0.79
29:D1:968:G:H2'	29:D1:969:C:C6	2.17	0.79
29:D1:1605:A:OP1	29:D1:1835:A:OP1	1.99	0.79
29:D1:2450:G:H2'	29:D1:2451:G:H5'	1.65	0.79
29:D1:2853:A:C6	29:D1:2854:U:N3	2.51	0.79
30:D2:68:C:O2	30:D2:69:C:C1'	2.29	0.79
34:DC:60:LEU:O	34:DC:62:ARG:N	2.14	0.79
45:DP:147:TRP:CB	45:DP:148:LYS:HA	2.13	0.79
1:A1:1274:C:C6	1:A1:1427:A:N7	2.50	0.79
1:A1:1377:U:C2'	1:A1:1378:U:H4'	2.11	0.79
29:B1:1450:G:C2	29:B1:1451:C:C5	2.70	0.79
29:B1:1464:G:H21	29:B1:1466:G:H3'	1.47	0.79
29:B1:2122:G:C6	29:B1:2332:A:C2	2.70	0.79
29:B1:3174:A:O2'	29:B1:3175:U:H5'	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:25:G:N3	30:B2:26:C:C5	2.51	0.79
30:B2:38:U:H3'	30:B2:40:C:OP2	1.83	0.79
30:B2:73:C:N3	30:B2:74:C:C5	2.50	0.79
62:Bg:60:CYS:N	74:Bg:101:OHX:N3	2.30	0.79
1:C1:527:A:H3'	1:C1:528:U:H5'	1.63	0.79
1:C1:646:C:H3'	1:C1:647:G:H5"	1.64	0.79
1:C1:650:U:C2'	1:C1:651:G:H5"	2.13	0.79
1:C1:1073:G:N1	1:C1:1074:G:C2	2.51	0.79
1:C1:1402:G:H2'	1:C1:1403:C:C6	2.16	0.79
1:C1:1474:G:H2'	1:C1:1475:A:H8	1.46	0.79
1:C1:1735:U:H2'	1:C1:1736:G:H8	1.47	0.79
29:D1:150:A:H2'	29:D1:151:A:C8	2.17	0.79
29:D1:1054:A:N3	29:D1:1054:A:H2'	1.97	0.79
29:D1:1150:A:N7	29:D1:1310:G:H5"	1.97	0.79
29:D1:1455:U:O4'	29:D1:1455:U:OP2	2.01	0.79
29:D1:2294:U:H5'	29:D1:2295:A:OP2	1.81	0.79
29:D1:2837:A:H2'	29:D1:2845:A:N1	1.97	0.79
29:D1:2989:U:H2'	29:D1:2990:G:O4'	1.83	0.79
31:D3:80:A:H2'	31:D3:81:U:C2	2.18	0.79
43:DN:49:PRO:N	43:DN:50:LYS:HA	1.96	0.79
1:A1:280:U:H3'	1:A1:281:G:H8	1.46	0.79
1:A1:291:G:H2'	1:A1:292:U:C5	2.16	0.79
1:A1:1719:A:H2'	1:A1:1720:G:C5	2.16	0.79
29:B1:198:A:H1'	29:B1:218:G:N3	1.98	0.79
29:B1:547:G:H3'	29:B1:548:G:H8	1.47	0.79
29:B1:706:A:C5	29:B1:714:G:N2	2.51	0.79
29:B1:829:U:O2'	29:B1:866:A:N1	2.16	0.79
29:B1:911:C:H2'	29:B1:911:C:O2	1.81	0.79
29:B1:1315:U:O2	29:B1:1315:U:H2'	1.81	0.79
29:B1:1651:U:O2'	29:B1:1652:G:H5'	1.82	0.79
29:B1:1908:A:N6	29:B1:1909:A:C6	2.50	0.79
29:B1:2136:C:H3'	29:B1:2142:A:N6	1.97	0.79
29:B1:3323:A:H4'	56:Ba:13:THR:CB	2.12	0.79
74:B1:3492:OHX:N1	54:BY:20:GLY:CA	2.46	0.79
74:B1:3536:OHX:N2	44:BO:84:PRO:HA	1.96	0.79
30:B2:9:C:H2'	30:B2:13:A:N6	1.97	0.79
31:B3:113:U:C1'	31:B3:114:G:OP2	2.24	0.79
46:BQ:10:ASN:H	46:BQ:11:PRO:HA	0.67	0.79
58:Bc:3:GLY:HA3	58:Bc:4:VAL:CB	2.12	0.79
1:C1:515:A:N6	1:C1:537:G:H1	1.80	0.79
1:C1:817:A:H2	1:C1:855:A:H2	1.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:420:G:H21	29:D1:2384:A:H3'	1.47	0.79
29:D1:515:C:C2'	29:D1:516:A:O4'	2.24	0.79
29:D1:750:G:H22	29:D1:784:A:C1'	1.95	0.79
29:D1:774:G:O2'	29:D1:775:A:H5'	1.83	0.79
29:D1:1157:G:C2	29:D1:1158:A:H1'	2.17	0.79
29:D1:1174:G:C2	29:D1:1175:C:C5	2.70	0.79
29:D1:1455:U:H3'	29:D1:1456:A:H8	1.46	0.79
29:D1:1504:A:H2'	29:D1:1505:C:C6	2.18	0.79
29:D1:1680:G:N3	29:D1:1681:U:C6	2.50	0.79
29:D1:2642:A:C2	29:D1:2643:A:C5	2.70	0.79
29:D1:2947:G:C2	29:D1:2948:C:C4	2.71	0.79
30:D2:33:U:O2	30:D2:33:U:H2'	1.83	0.79
30:D2:35:C:C6	30:D2:35:C:H5'	2.17	0.79
34:DC:294:GLY:HA2	34:DC:295:ALA:C	2.06	0.79
39:DH:187:GLY:HA3	39:DH:194:THR:O	1.82	0.79
1:A1:194:U:H4'	1:A1:195:G:O5'	1.80	0.79
1:A1:590:C:H2'	1:A1:591:A:H8	1.47	0.79
1:A1:739:G:H2'	1:A1:740:A:H8	1.46	0.79
1:A1:827:C:H2'	1:A1:828:U:N3	1.96	0.79
1:A1:1040:G:H1	1:A1:1079:U:H3	1.31	0.79
1:A1:1274:C:O2	1:A1:1274:C:H2'	1.83	0.79
1:A1:1540:G:H2'	1:A1:1541:G:O4'	1.81	0.79
1:A1:1685:G:H22	1:A1:1718:G:H21	1.29	0.79
29:B1:331:G:N2	29:B1:332:C:C2	2.51	0.79
29:B1:351:A:H8	31:B3:53:A:HO2'	1.30	0.79
29:B1:384:A:O5'	29:B1:384:A:C8	2.33	0.79
29:B1:427:C:N4	29:B1:428:A:N6	2.31	0.79
29:B1:592:A:C2	29:B1:593:C:N1	2.51	0.79
29:B1:720:A:O5'	29:B1:720:A:H8	1.64	0.79
29:B1:945:C:H1'	29:B1:1407:A:H1'	1.65	0.79
29:B1:1265:U:H2'	29:B1:1266:G:C8	2.18	0.79
29:B1:1608:C:H2'	29:B1:1609:C:H5'	1.65	0.79
29:B1:1900:A:O4'	29:B1:1901:A:C2	2.36	0.79
29:B1:2900:A:C2'	29:B1:2901:G:O5'	2.30	0.79
29:B1:3204:C:H2'	29:B1:3205:G:OP1	1.82	0.79
29:B1:3305:A:C4	29:B1:3306:U:O2	2.34	0.79
30:B2:55:A:OP2	30:B2:55:A:H3'	1.82	0.79
61:Bf:47:GLN:N	61:Bf:48:SER:HA	1.98	0.79
1:C1:44:U:O5'	1:C1:45:U:H5	1.64	0.79
1:C1:104:A:H2'	1:C1:106:U:OP1	1.83	0.79
1:C1:720:G:H2'	1:C1:721:U:H5"	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1221:A:H2'	1:C1:1222:C:C6	2.16	0.79
3:CB:148:LEU:HA	3:CB:194:GLU:H	1.48	0.79
13:CL:65:GLU:O	13:CL:68:ARG:N	2.16	0.79
29:D1:16:A:H61	31:D3:143:U:H3	1.28	0.79
29:D1:586:C:O2	29:D1:586:C:H2'	1.82	0.79
29:D1:796:U:H2'	29:D1:797:U:H6	1.47	0.79
29:D1:911:C:H2'	29:D1:912:G:H5'	1.64	0.79
29:D1:1115:G:H8	29:D1:1115:G:H3'	1.47	0.79
29:D1:1229:G:H2'	29:D1:1230:G:C8	2.17	0.79
29:D1:1601:U:C5	29:D1:1604:G:C6	2.71	0.79
29:D1:2420:C:H2'	29:D1:2421:U:H5'	1.63	0.79
29:D1:2514:U:H4'	29:D1:2515:A:OP1	1.82	0.79
30:D2:8:G:H2'	30:D2:9:C:C6	2.18	0.79
36:DE:273:ARG:C	36:DE:275:THR:H	1.90	0.79
1:A1:192:U:H2'	1:A1:193:U:O4'	1.83	0.79
1:A1:316:A:H4'	1:A1:316:A:OP1	1.82	0.79
1:A1:528:U:O5'	1:A1:529:A:H4'	1.82	0.79
1:A1:647:G:N2	1:A1:648:G:C2	2.50	0.79
1:A1:995:A:H5"	1:A1:996:U:OP2	1.83	0.79
1:A1:1109:G:C2'	1:A1:1110:G:H5"	2.13	0.79
1:A1:1484:G:N2	1:A1:1606:C:H1'	1.97	0.79
2:AA:145:ALA:O	2:AA:160:ILE:HA	1.82	0.79
29:B1:596:C:O2	29:B1:596:C:C3'	2.30	0.79
29:B1:694:C:H2'	29:B1:694:C:O2	1.80	0.79
29:B1:921:A:H3'	29:B1:921:A:OP1	1.82	0.79
29:B1:1524:A:H1'	29:B1:1525:G:OP1	1.81	0.79
29:B1:1798:A:H2'	29:B1:1799:A:C8	2.18	0.79
29:B1:3317:U:H3	34:BC:123:TYR:HA	1.47	0.79
29:B1:3327:G:C2	29:B1:3328:G:C8	2.71	0.79
29:B1:3350:C:H4'	29:B1:3354:U:H5	1.47	0.79
31:B3:111:A:H5"	31:B3:111:A:H8	1.48	0.79
34:BC:169:THR:O	34:BC:170:PRO:C	2.25	0.79
36:BE:126:GLU:C	36:BE:128:GLU:H	1.87	0.79
48:BS:62:ARG:O	48:BS:65:ALA:HB3	1.81	0.79
56:Ba:29:ALA:O	56:Ba:32:ALA:HB3	1.83	0.79
1:C1:258:C:O2'	1:C1:259:U:C6	2.36	0.79
1:C1:415:C:O2	1:C1:418:G:N1	2.10	0.79
1:C1:1345:A:H2'	1:C1:1346:A:N7	1.96	0.79
1:C1:1385:G:N3	1:C1:1386:G:C8	2.51	0.79
29:D1:355:A:H2'	29:D1:356:C:O4'	1.82	0.79
29:D1:549:U:H2'	29:D1:550:A:H8	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:613:G:O2'	29:D1:614:C:H5'	1.81	0.79
29:D1:1153:A:N7	29:D1:1154:A:C5	2.51	0.79
29:D1:1394:A:C8	29:D1:1395:G:C8	2.70	0.79
29:D1:1440:G:O2'	29:D1:1441:G:H5'	1.82	0.79
29:D1:1504:A:H3'	29:D1:1505:C:C5'	2.12	0.79
29:D1:2997:G:N3	29:D1:2998:U:H5'	1.98	0.79
29:D1:3072:C:H5	29:D1:3073:A:C5	2.01	0.79
29:D1:3140:G:H8	29:D1:3140:G:C5'	1.96	0.79
29:D1:3141:A:H4'	29:D1:3142:A:O5'	1.83	0.79
30:D2:26:C:H4'	30:D2:27:A:OP1	1.80	0.79
30:D2:69:C:H3'	30:D2:70:U:C6	2.17	0.79
41:DJ:184:LYS:C	41:DJ:186:GLU:H	1.90	0.79
1:A1:1102:G:H2'	1:A1:1103:U:O5'	1.83	0.79
1:A1:1250:U:C4	1:A1:1251:U:C4	2.70	0.79
1:A1:1753:A:C3'	1:A1:1754:A:H5"	2.13	0.79
29:B1:15:C:H4'	29:B1:16:A:OP1	1.81	0.79
29:B1:400:G:H5"	29:B1:403:C:O2'	1.82	0.79
29:B1:515:C:H6	29:B1:515:C:P	2.06	0.79
29:B1:593:C:C2	29:B1:594:U:H4'	2.17	0.79
29:B1:847:A:H2'	29:B1:848:A:H8	1.48	0.79
29:B1:1196:C:N3	30:B2:86:U:C5	2.50	0.79
29:B1:2131:A:H2'	29:B1:2132:C:H5"	1.65	0.79
29:B1:2245:C:H2'	29:B1:2246:G:O4'	1.83	0.79
29:B1:2592:G:O6	74:B1:3449:OHX:N6	2.16	0.79
29:B1:2680:A:OP1	29:B1:2681:U:H5	1.65	0.79
30:B2:12:U:O4'	30:B2:69:C:H4'	1.83	0.79
36:BE:100:ALA:O	36:BE:102:GLY:N	2.16	0.79
46:BQ:9:THR:H	46:BQ:10:ASN:HA	1.46	0.79
50:BU:133:SER:O	50:BU:135:VAL:N	2.16	0.79
1:C1:149:C:H3'	1:C1:150:U:C6	2.17	0.79
1:C1:219:A:H61	1:C1:843:U:H1'	1.48	0.79
1:C1:996:U:H2'	1:C1:996:U:O2	1.82	0.79
1:C1:1055:U:O4	1:C1:1064:G:O6	2.00	0.79
1:C1:1068:C:H2'	1:C1:1069:A:H8	1.48	0.79
29:D1:23:A:H3'	29:D1:24:G:H8	1.48	0.79
29:D1:39:A:H5'	29:D1:40:A:OP2	1.83	0.79
29:D1:750:G:H2'	29:D1:751:A:C8	2.16	0.79
29:D1:2465:G:H2'	29:D1:2466:G:H8	1.46	0.79
29:D1:2650:U:OP2	29:D1:2650:U:H6	1.64	0.79
29:D1:3072:C:C5	29:D1:3073:A:C5	2.70	0.79
29:D1:3199:G:H2'	29:D1:3200:G:C8	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3254:G:H2'	29:D1:3254:G:N3	1.97	0.79
29:D1:3376:A:H5'	29:D1:3377:G:H5"	1.64	0.79
73:DM:17:GLU:C	73:DM:19:LEU:H	1.91	0.79
43:DN:50:LYS:H	43:DN:53:VAL:CB	1.96	0.79
1:A1:357:G:H2'	1:A1:358:U:C6	2.17	0.79
1:A1:1291:G:H2'	1:A1:1292:G:C8	2.17	0.79
1:A1:1330:G:H2'	1:A1:1331:A:H8	1.47	0.79
1:A1:1775:U:O2'	1:A1:1776:A:H5'	1.82	0.79
15:AN:68:ARG:CA	15:AN:79:TRP:HA	2.05	0.79
29:B1:537:A:N6	29:B1:556:U:O2	2.16	0.79
29:B1:819:U:H2'	29:B1:820:A:C8	2.18	0.79
29:B1:1593:A:H2'	29:B1:1594:A:H8	1.44	0.79
29:B1:2672:G:H4'	42:BK:104:PHE:O	1.82	0.79
47:BR:31:LYS:O	47:BR:35:PHE:N	2.16	0.79
1:C1:94:U:H2'	1:C1:95:G:O4'	1.82	0.79
1:C1:369:A:H5'	1:C1:370:A:OP2	1.83	0.79
1:C1:440:U:H3'	1:C1:441:A:H5'	1.64	0.79
1:C1:612:U:H4'	1:C1:1099:U:C5	2.18	0.79
1:C1:1228:G:H5'	1:C1:1229:G:OP2	1.81	0.79
1:C1:1244:A:H2	1:C1:1245:G:C1'	1.95	0.79
1:C1:1771:U:H2'	1:C1:1772:C:C6	2.17	0.79
29:D1:574:U:O2'	29:D1:575:G:OP1	1.99	0.79
29:D1:1362:G:O2'	29:D1:1363:A:H5'	1.83	0.79
29:D1:1609:C:OP2	29:D1:1609:C:H2'	1.83	0.79
29:D1:2143:A:H2'	29:D1:2144:A:H5'	1.65	0.79
29:D1:2146:C:C2'	29:D1:2147:A:H5'	2.07	0.79
29:D1:3116:G:O2'	29:D1:3117:C:H5'	1.84	0.79
29:D1:3262:U:OP2	29:D1:3262:U:H3'	1.82	0.79
29:D1:3308:C:C5	29:D1:3309:G:C4	2.71	0.79
29:D1:3313:U:O2'	29:D1:3314:A:O5'	2.01	0.79
1:A1:833:U:H3'	1:A1:834:G:H5"	1.63	0.78
1:A1:1148:C:H2'	1:A1:1149:G:N7	1.97	0.78
1:A1:1244:A:H2	1:A1:1245:G:C1'	1.95	0.78
1:A1:1280:C:H2'	1:A1:1281:G:C8	2.18	0.78
1:A1:1402:G:H2'	1:A1:1403:C:H6	1.47	0.78
10:AI:45:PHE:CB	10:AI:46:ALA:HA	2.13	0.78
29:B1:88:A:H2'	29:B1:89:A:O4'	1.83	0.78
29:B1:207:U:H2'	29:B1:208:C:C6	2.19	0.78
29:B1:675:C:O2	29:B1:679:U:H5'	1.82	0.78
29:B1:705:A:H4'	29:B1:706:A:H5'	1.64	0.78
29:B1:1314:C:H5"	29:B1:1315:U:OP2	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1818:U:H2'	29:B1:1819:U:C2	2.18	0.78
29:B1:1903:U:C2	29:B1:1905:G:H5"	2.17	0.78
29:B1:2825:C:H5'	29:B1:2826:U:OP2	1.83	0.78
29:B1:2897:A:H2'	29:B1:2899:C:H5"	1.64	0.78
29:B1:3308:C:C5	29:B1:3309:G:C4	2.71	0.78
29:B1:3321:C:HO2'	29:B1:3322:A:H8	0.81	0.78
1:C1:361:C:N4	1:C1:384:G:N1	2.29	0.78
1:C1:829:A:H1'	1:C1:830:U:O5'	1.83	0.78
1:C1:1250:U:C4	1:C1:1251:U:C4	2.71	0.78
14:CM:115:GLU:O	14:CM:122:ARG:HA	1.83	0.78
14:CM:128:GLY:C	14:CM:130:ARG:N	2.39	0.78
29:D1:564:G:H3'	29:D1:565:U:C6	2.17	0.78
29:D1:1933:A:H2'	29:D1:1934:G:H5'	1.65	0.78
29:D1:2932:U:H2'	29:D1:2932:U:O2	1.83	0.78
29:D1:3274:A:H1'	29:D1:3275:U:P	2.23	0.78
29:D1:3316:A:H61	29:D1:3388:C:N4	1.81	0.78
29:D1:3317:U:H3	34:DC:123:TYR:HA	1.49	0.78
30:D2:64:A:C4'	30:D2:65:G:O5'	2.30	0.78
30:D2:98:C:C3'	30:D2:99:G:H5"	2.13	0.78
31:D3:69:U:C2'	31:D3:70:G:H4'	2.13	0.78
31:D3:76:C:H2'	53:DX:76:LEU:CB	2.13	0.78
31:D3:113:U:C1'	31:D3:114:G:OP2	2.27	0.78
1:A1:12:U:H1'	1:A1:1300:A:H1'	1.66	0.78
1:A1:361:C:N3	1:A1:384:G:N2	2.30	0.78
1:A1:699:U:H2'	1:A1:700:C:C5	2.18	0.78
1:A1:1107:G:H3'	1:A1:1108:G:N2	1.98	0.78
1:A1:1166:A:C2	1:A1:1167:G:H1'	2.18	0.78
1:A1:1619:C:C2	1:A1:1620:C:H5	2.00	0.78
1:A1:1663:G:H2'	1:A1:1664:C:H6	1.46	0.78
29:B1:195:U:H4'	29:B1:1391:C:C5	2.17	0.78
29:B1:305:U:H2'	29:B1:305:U:O2	1.83	0.78
29:B1:394:G:H22	29:B1:396:A:H2'	1.48	0.78
29:B1:430:U:H2'	29:B1:431:U:C6	2.18	0.78
29:B1:674:G:H2'	29:B1:675:C:C6	2.18	0.78
29:B1:762:U:C4	74:B1:3479:OHX:N6	2.51	0.78
29:B1:1412:G:C5	29:B1:1413:G:N7	2.51	0.78
29:B1:1815:U:C3'	29:B1:1816:A:H5'	2.14	0.78
29:B1:2286:U:C4	29:B1:2288:G:H1'	2.18	0.78
29:B1:3048:A:N6	29:B1:3090:U:H3'	1.98	0.78
29:B1:3180:A:H8	45:BP:114:LYS:CB	1.96	0.78
45:BP:124:LEU:HA	45:BP:125:ARG:C	2.06	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:171:A:O2'	1:C1:172:C:C5'	2.30	0.78
1:C1:283:U:H3'	1:C1:284:G:C5'	2.13	0.78
1:C1:1536:G:H2'	1:C1:1536:G:N3	1.97	0.78
29:D1:573:C:H2'	29:D1:574:U:C6	2.18	0.78
29:D1:592:A:H2'	29:D1:593:C:C2'	2.12	0.78
29:D1:1198:C:C6	29:D1:1200:A:C8	2.72	0.78
29:D1:1230:G:C6	29:D1:1231:A:N7	2.51	0.78
29:D1:1263:A:H61	72:DL:135:THR:HA	1.48	0.78
29:D1:1383:G:C4'	35:DD:241:GLY:HA2	2.12	0.78
29:D1:1815:U:C3'	29:D1:1816:A:H5'	2.14	0.78
29:D1:2309:A:H2	29:D1:2961:G:H2'	1.46	0.78
29:D1:2667:A:N6	29:D1:2690:G:C6	2.51	0.78
29:D1:2862:U:O2'	29:D1:2863:G:H5'	1.84	0.78
29:D1:3298:C:N4	29:D1:3299:A:N6	2.31	0.78
36:DE:18:THR:CB	36:DE:19:PRO:HA	2.14	0.78
1:A1:54:C:H2'	1:A1:55:A:H5'	1.63	0.78
1:A1:618:U:H2'	1:A1:619:A:H5'	1.64	0.78
1:A1:973:A:H2'	1:A1:974:A:H8	1.47	0.78
1:A1:1516:A:H3'	1:A1:1517:U:C5'	2.13	0.78
2:AA:106:SER:C	2:AA:108:THR:H	1.91	0.78
14:AM:128:GLY:C	14:AM:130:ARG:N	2.40	0.78
29:B1:152:U:O2'	29:B1:153:U:H5'	1.83	0.78
29:B1:278:U:H2'	29:B1:279:U:C6	2.16	0.78
29:B1:314:U:H2'	29:B1:315:C:C6	2.18	0.78
29:B1:605:U:H6	29:B1:605:U:H5"	1.45	0.78
29:B1:1063:G:OP1	29:B1:1063:G:O4'	2.01	0.78
29:B1:1640:G:H5"	29:B1:1738:C:OP1	1.83	0.78
29:B1:2172:A:C2'	29:B1:2173:U:H5'	2.13	0.78
29:B1:2842:U:H2'	29:B1:2842:U:O2	1.82	0.78
29:B1:2990:G:C2'	29:B1:2991:A:H5'	2.12	0.78
30:B2:12:U:H5'	30:B2:68:C:C2'	2.12	0.78
30:B2:64:A:H1'	30:B2:65:G:H5"	1.64	0.78
31:B3:2:A:O2'	31:B3:3:A:H5'	1.83	0.78
36:BE:100:ALA:C	36:BE:102:GLY:N	2.37	0.78
36:BE:273:ARG:C	36:BE:275:THR:H	1.90	0.78
39:BH:99:PRO:C	39:BH:101:THR:H	1.89	0.78
1:C1:26:A:OP1	1:C1:27:U:OP2	2.00	0.78
1:C1:297:U:H2'	1:C1:298:C:O5'	1.84	0.78
1:C1:364:G:C2	1:C1:381:C:C2	2.71	0.78
1:C1:1003:A:C8	1:C1:1005:A:C5	2.72	0.78
1:C1:1364:G:N7	1:C1:1365:C:C5	2.51	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:64:G:O2'	29:D1:77:A:H1'	1.84	0.78
29:D1:305:U:H2'	29:D1:305:U:O2	1.83	0.78
29:D1:540:U:H2'	29:D1:541:U:C6	2.19	0.78
29:D1:547:G:H3'	29:D1:548:G:H8	1.48	0.78
29:D1:645:A:H4'	29:D1:646:A:OP1	1.84	0.78
29:D1:745:C:C4	29:D1:746:A:N6	2.51	0.78
29:D1:1156:C:H3'	29:D1:1157:G:H5"	1.63	0.78
29:D1:1157:G:N3	29:D1:1158:A:H1'	1.97	0.78
29:D1:1914:G:H3'	29:D1:1915:A:H8	1.47	0.78
29:D1:2147:A:H2'	29:D1:2148:U:C6	2.18	0.78
29:D1:2676:A:H4'	29:D1:2677:G:C8	2.18	0.78
29:D1:2857:C:H2'	29:D1:2858:U:H6	1.47	0.78
33:DB:188:LYS:C	33:DB:190:ARG:N	2.35	0.78
1:A1:284:G:H4'	1:A1:285:G:OP1	1.82	0.78
1:A1:534:A:H2'	1:A1:535:A:C8	2.18	0.78
1:A1:1035:G:H2'	1:A1:1036:A:O4'	1.83	0.78
29:B1:355:A:C2	29:B1:365:A:C5	2.71	0.78
29:B1:406:G:N3	31:B3:16:G:C2	2.52	0.78
29:B1:606:C:C3'	29:B1:607:A:H8	1.79	0.78
29:B1:937:G:H22	29:B1:960:U:C5'	1.94	0.78
29:B1:1454:A:H5"	29:B1:1878:G:C6	2.17	0.78
29:B1:2178:A:OP1	33:BB:126:LEU:HA	1.83	0.78
29:B1:2293:C:C5	29:B1:2294:U:C5	2.72	0.78
29:B1:2326:A:C5'	29:B1:2327:U:OP2	2.31	0.78
29:B1:2420:C:H2'	29:B1:2421:U:H5'	1.65	0.78
29:B1:2837:A:H2'	29:B1:2845:A:N1	1.98	0.78
29:B1:3212:C:C4	29:B1:3213:A:H2	1.99	0.78
30:B2:27:A:H5'	30:B2:28:C:OP2	1.82	0.78
31:B3:124:G:H5'	31:B3:125:U:OP2	1.83	0.78
1:C1:314:C:N3	1:C1:354:C:N4	2.31	0.78
1:C1:757:A:C4	1:C1:758:U:C6	2.71	0.78
29:D1:43:A:N6	29:D1:2802:A:C2	2.48	0.78
29:D1:773:G:H2'	29:D1:774:G:C8	2.17	0.78
29:D1:1271:A:N3	29:D1:1271:A:H2'	1.98	0.78
29:D1:2111:G:O6	29:D1:3332:U:H3'	1.84	0.78
29:D1:2122:G:C6	29:D1:2332:A:C2	2.71	0.78
29:D1:2245:C:H2'	29:D1:2246:G:O4'	1.84	0.78
29:D1:2273:G:O6	74:D1:3582:OHX:N5	2.17	0.78
29:D1:2682:C:C4	29:D1:2683:U:H5	2.01	0.78
29:D1:2766:U:H2'	29:D1:2767:U:C6	2.18	0.78
29:D1:3195:U:H2'	29:D1:3196:U:C2	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:D1:3543:OHX:N5	38:DG:217:PRO:HA	1.98	0.78
30:D2:67:G:C6	30:D2:68:C:C4	2.71	0.78
1:A1:374:U:C4	1:A1:375:U:C5	2.71	0.78
1:A1:697:C:H3'	1:A1:698:U:C5'	2.14	0.78
1:A1:914:G:H4'	1:A1:915:A:O5'	1.82	0.78
1:A1:1182:U:H2'	1:A1:1184:A:OP2	1.83	0.78
1:A1:1299:G:H2'	1:A1:1300:A:C8	2.19	0.78
29:B1:679:U:H2'	29:B1:680:G:C8	2.19	0.78
29:B1:985:U:H2'	29:B1:986:U:H6	1.49	0.78
29:B1:1054:A:N3	29:B1:1054:A:H2'	1.97	0.78
29:B1:1383:G:C4'	35:BD:241:GLY:HA2	2.13	0.78
29:B1:1927:G:N2	29:B1:1928:G:C8	2.52	0.78
29:B1:2546:C:H5"	29:B1:2547:A:OP2	1.83	0.78
29:B1:2594:C:H2'	29:B1:2595:A:C8	2.17	0.78
29:B1:2680:A:H3'	29:B1:2681:U:C5'	2.13	0.78
29:B1:3237:U:H2'	29:B1:3238:G:C8	2.18	0.78
30:B2:74:C:H2'	30:B2:75:G:C5'	2.02	0.78
30:B2:108:A:H2'	30:B2:109:G:C8	2.18	0.78
34:BC:306:THR:O	34:BC:308:MET:N	2.17	0.78
54:BY:8:THR:O	54:BY:10:LYS:N	2.16	0.78
1:C1:437:A:H5"	1:C1:438:A:OP1	1.83	0.78
1:C1:995:A:H5"	1:C1:996:U:OP2	1.82	0.78
11:CJ:81:ILE:O	11:CJ:84:ALA:HB3	1.84	0.78
29:D1:53:G:H2'	29:D1:54:C:H6	1.49	0.78
29:D1:595:G:H2'	29:D1:596:C:O4'	1.82	0.78
29:D1:2269:U:H2'	29:D1:2269:U:O2	1.83	0.78
29:D1:3316:A:N1	29:D1:3388:C:N4	2.31	0.78
37:DF:6:ALA:HA	38:DG:75:TYR:HA	1.66	0.78
38:DG:111:ILE:O	38:DG:112:ASN:C	2.25	0.78
54:DY:8:THR:O	54:DY:10:LYS:N	2.17	0.78
1:A1:718:U:H5'	1:A1:719:U:OP2	1.84	0.78
1:A1:806:A:H2'	1:A1:807:A:H5"	1.64	0.78
1:A1:1617:U:O2'	1:A1:1618:C:H5"	1.83	0.78
13:AL:65:GLU:O	13:AL:68:ARG:N	2.15	0.78
29:B1:807:A:H3'	29:B1:808:A:H5"	1.62	0.78
29:B1:1794:G:O2'	29:B1:1796:G:N2	2.17	0.78
29:B1:2407:C:H1'	29:B1:2818:U:H3	1.49	0.78
29:B1:2465:G:H2'	29:B1:2466:G:C8	2.19	0.78
29:B1:3037:U:O2'	29:B1:3038:U:H5'	1.84	0.78
29:B1:3333:G:N2	29:B1:3371:G:C8	2.52	0.78
31:B3:128:U:H5"	31:B3:129:C:C5	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:973:A:C4'	29:D1:847:A:H2	1.97	0.78
1:C1:1348:A:H3'	1:C1:1348:A:C8	2.18	0.78
1:C1:1487:A:H2'	1:C1:1488:G:C8	2.18	0.78
4:CC:140:GLY:HA3	4:CC:182:LEU:HA	1.64	0.78
29:D1:405:U:O4	29:D1:406:G:C2	2.37	0.78
29:D1:822:G:H2'	29:D1:823:C:C6	2.19	0.78
29:D1:960:U:H2'	29:D1:961:C:O4'	1.84	0.78
29:D1:995:U:O4	29:D1:2637:A:C5	2.36	0.78
29:D1:1461:A:C5	29:D1:1462:A:N7	2.52	0.78
29:D1:2253:G:H3'	29:D1:2254:U:C5	2.18	0.78
29:D1:3219:G:C8	29:D1:3257:C:OP1	2.36	0.78
29:D1:3363:U:H3'	29:D1:3364:C:H6	1.47	0.78
30:D2:13:A:C2	30:D2:13:A:O5'	2.37	0.78
30:D2:88:G:C4	30:D2:89:G:N7	2.52	0.78
1:A1:44:U:O5'	1:A1:45:U:H5	1.67	0.78
1:A1:646:C:H3'	1:A1:647:G:H5"	1.66	0.78
1:A1:817:A:H2	1:A1:855:A:H2	1.30	0.78
1:A1:883:C:H42	1:A1:945:U:H3	1.31	0.78
1:A1:1649:G:H2'	1:A1:1650:U:H6	1.48	0.78
1:A1:1765:A:OP2	74:A1:1931:OHX:N5	2.17	0.78
29:B1:1080:A:C4	29:B1:1082:U:H5"	2.18	0.78
29:B1:2280:A:C5	29:B1:2282:U:H5	2.02	0.78
29:B1:2696:A:C8	29:B1:2697:A:N7	2.51	0.78
30:B2:68:C:H2'	30:B2:69:C:O4'	1.84	0.78
31:B3:104:A:H5"	31:B3:105:A:C8	2.18	0.78
59:Bd:21:ARG:O	74:Bd:101:OHX:N1	2.17	0.78
1:C1:93:A:C4	1:C1:399:A:C2	2.72	0.78
1:C1:1594:G:C6	1:C1:1595:U:N3	2.52	0.78
29:D1:781:G:C6	29:D1:782:U:C4	2.72	0.78
29:D1:1140:G:H2'	29:D1:1141:C:C6	2.19	0.78
29:D1:1304:A:C4	29:D1:2939:G:H1'	2.18	0.78
29:D1:1448:U:H5	29:D1:2355:G:N2	1.82	0.78
29:D1:1471:U:H2'	29:D1:1472:U:H6	1.49	0.78
29:D1:2286:U:C4	29:D1:2288:G:H1'	2.17	0.78
29:D1:2374:C:N4	29:D1:2941:A:C4	2.52	0.78
29:D1:2561:A:H2'	29:D1:2562:A:H8	1.49	0.78
29:D1:2916:U:H5	29:D1:2935:U:HO2'	1.32	0.78
29:D1:2928:C:H2'	29:D1:2929:C:H5'	1.63	0.78
30:D2:11:A:H2	36:DE:16:PHE:HA	1.47	0.78
30:D2:108:A:H2'	30:D2:109:G:C8	2.18	0.78
34:DC:323:MET:O	34:DC:324:VAL:O	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DQ:9:THR:H	46:DQ:10:ASN:HA	1.46	0.78
1:A1:996:U:H2'	1:A1:996:U:O2	1.82	0.78
1:A1:1013:A:H2'	1:A1:1014:G:O4'	1.83	0.78
14:AM:99:SER:HA	14:AM:102:ARG:CB	2.14	0.78
24:Ac:4:UNK:HA	24:Ac:98:UNK:HA	1.65	0.78
29:B1:5:G:H22	31:B3:155:A:H1'	1.46	0.78
29:B1:421:G:C2	29:B1:2365:C:C2	2.71	0.78
29:B1:580:C:N3	29:B1:581:U:H5	1.80	0.78
29:B1:937:G:N2	29:B1:960:U:H5'	1.97	0.78
29:B1:979:U:H4'	29:B1:980:A:OP1	1.81	0.78
29:B1:1625:A:H3'	29:B1:1626:U:C4'	2.13	0.78
29:B1:1658:G:H2'	29:B1:1659:U:C6	2.19	0.78
29:B1:2111:G:H22	51:BV:49:ILE:HA	1.48	0.78
29:B1:2636:A:H5"	29:B1:2637:A:O5'	1.82	0.78
29:B1:2883:U:H2'	29:B1:2884:C:C6	2.17	0.78
29:B1:3176:G:H2'	29:B1:3177:G:H5"	1.66	0.78
30:B2:13:A:C2	30:B2:13:A:P	2.77	0.78
31:B3:1:A:C2	31:B3:2:A:C4	2.72	0.78
35:BD:16:THR:CB	35:BD:17:ALA:HA	2.14	0.78
1:C1:226:A:HO2'	1:C1:227:U:H6	1.31	0.78
1:C1:336:G:H2'	1:C1:338:C:H5	1.48	0.78
1:C1:901:G:H3'	1:C1:902:G:C8	2.18	0.78
1:C1:983:A:H2'	1:C1:984:G:H8	1.45	0.78
1:C1:1199:G:C5	1:C1:1200:G:H1'	2.19	0.78
1:C1:1243:G:C5	1:C1:1244:A:N6	2.47	0.78
1:C1:1347:U:N3	1:C1:1376:C:N4	2.32	0.78
1:C1:1484:G:N2	1:C1:1606:C:H1'	1.99	0.78
1:C1:1523:G:H4'	1:C1:1524:A:OP2	1.82	0.78
3:CB:160:GLY:C	3:CB:209:ASN:HA	2.09	0.78
10:CI:77:ARG:HA	10:CI:95:GLY:H	1.48	0.78
29:D1:384:A:H5"	29:D1:385:A:OP2	1.83	0.78
29:D1:1157:G:H8	29:D1:1157:G:C5'	1.96	0.78
29:D1:1449:A:H3'	29:D1:1450:G:C8	2.18	0.78
29:D1:2541:U:O2	29:D1:2541:U:H2'	1.82	0.78
29:D1:3203:U:OP2	29:D1:3203:U:H6	1.66	0.78
29:D1:3302:U:H3'	29:D1:3303:G:H5"	1.66	0.78
31:D3:72:A:N3	31:D3:88:A:N1	2.32	0.78
34:DC:106:TRP:C	34:DC:108:GLU:N	2.39	0.78
36:DE:97:ALA:HA	36:DE:100:ALA:CB	2.14	0.78
51:DV:41:LYS:C	51:DV:43:ARG:H	1.92	0.78
65:Dk:10:UNK:O	65:Dk:13:UNK:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1006:C:C6	1:A1:1007:C:H5	2.01	0.78
1:A1:1667:A:H2'	1:A1:1668:G:C8	2.19	0.78
5:AD:64:VAL:HA	5:AD:89:ILE:HA	1.65	0.78
11:AJ:50:GLU:O	11:AJ:54:LEU:CB	2.32	0.78
15:AN:17:GLN:CB	15:AN:18:GLN:C	2.57	0.78
21:AT:181:TRP:HA	21:AT:189:GLU:H	1.47	0.78
29:B1:346:C:H41	29:B1:348:A:H3'	1.49	0.78
29:B1:409:A:N6	31:B3:15:G:H1'	1.99	0.78
29:B1:627:U:H4'	29:B1:1399:A:H1'	1.66	0.78
29:B1:659:G:C2'	29:B1:660:A:C8	2.66	0.78
29:B1:1105:A:H2'	29:B1:1106:G:C8	2.19	0.78
29:B1:1233:G:N7	29:B1:1262:G:H3'	1.98	0.78
29:B1:1613:A:H2'	29:B1:1614:C:C6	2.18	0.78
29:B1:2900:A:H2'	29:B1:2901:G:O5'	1.83	0.78
29:B1:3056:U:C2	29:B1:3079:U:C4	2.72	0.78
29:B1:3118:C:H2'	29:B1:3119:U:H6	1.48	0.78
30:B2:55:A:H2	30:B2:56:A:C4	2.02	0.78
36:BE:272:TYR:N	36:BE:273:ARG:HA	1.99	0.78
47:BR:18:ALA:HA	47:BR:53:PHE:CB	2.13	0.78
1:C1:1719:A:H2'	1:C1:1720:G:C5	2.18	0.78
29:D1:573:C:H2'	29:D1:574:U:C5	2.19	0.78
29:D1:659:G:H8	29:D1:659:G:O5'	1.67	0.78
29:D1:717:C:N4	29:D1:721:G:H5'	1.95	0.78
29:D1:719:U:O2'	29:D1:720:A:C8	2.35	0.78
29:D1:744:A:C5	29:D1:745:C:C4	2.72	0.78
29:D1:1139:G:C5'	29:D1:1139:G:C8	2.66	0.78
29:D1:1277:C:H2'	29:D1:1277:C:OP2	1.84	0.78
29:D1:1898:G:C8	29:D1:1899:G:N7	2.52	0.78
29:D1:2465:G:H2'	29:D1:2466:G:C8	2.19	0.78
29:D1:2522:G:H1'	29:D1:2523:A:P	2.22	0.78
29:D1:2650:U:C5'	29:D1:2651:G:OP2	2.32	0.78
29:D1:2727:A:C6	29:D1:2728:G:O6	2.37	0.78
29:D1:2997:G:C4	29:D1:2998:U:H5'	2.19	0.78
34:DC:299:ASP:HA	34:DC:302:LYS:O	1.83	0.78
1:A1:274:G:H2'	1:A1:275:C:C6	2.19	0.78
1:A1:480:G:N2	1:A1:508:U:H3	1.81	0.78
1:A1:593:U:H4'	1:A1:595:G:H4'	1.66	0.78
1:A1:737:A:H2'	1:A1:737:A:OP2	1.83	0.78
1:A1:1402:G:H2'	1:A1:1403:C:C6	2.19	0.78
1:A1:1765:A:OP2	74:A1:1931:OHX:N1	2.17	0.78
29:B1:624:G:C2	29:B1:625:G:C8	2.72	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1449:A:H3'	29:B1:1450:G:C8	2.18	0.78
29:B1:2151:C:O2'	29:B1:2243:A:N1	2.16	0.78
29:B1:3144:G:O6	74:B1:3428:OHX:N5	2.17	0.78
30:B2:11:A:O4'	30:B2:13:A:H2'	1.83	0.78
32:BA:177:ASP:O	32:BA:181:ASN:CB	2.31	0.78
34:BC:261:MET:C	34:BC:263:SER:N	2.33	0.78
39:BH:187:GLY:HA3	39:BH:194:THR:O	1.84	0.78
29:D1:673:U:C2'	29:D1:674:G:H5'	2.14	0.78
29:D1:1075:A:C8	29:D1:1076:C:C6	2.71	0.78
29:D1:1786:G:H2'	29:D1:1787:A:H8	1.48	0.78
29:D1:2725:U:H5	29:D1:2727:A:O2'	1.67	0.78
29:D1:2743:A:H3'	29:D1:2744:U:C6	2.19	0.78
29:D1:2896:A:C2'	29:D1:2897:A:H5"	2.14	0.78
29:D1:2970:C:H3'	29:D1:2971:A:C5'	2.13	0.78
30:D2:26:C:H2'	30:D2:27:A:O4'	1.82	0.78
42:DK:142:LYS:O	42:DK:143:ARG:O	2.01	0.78
1:A1:64:U:H5'	1:A1:65:A:OP2	1.84	0.77
1:A1:108:A:H2'	1:A1:109:G:C8	2.18	0.77
1:A1:190:C:H3'	1:A1:191:C:C5'	2.14	0.77
1:A1:318:U:H3	1:A1:346:G:H1	1.31	0.77
1:A1:569:C:H1'	1:A1:583:C:H5'	1.65	0.77
1:A1:606:A:C5	1:A1:608:U:H5	2.01	0.77
1:A1:1100:G:C4'	1:A1:1101:G:OP1	2.25	0.77
1:A1:1364:G:N7	1:A1:1365:C:C5	2.53	0.77
1:A1:1784:C:H2'	1:A1:1785:U:C6	2.19	0.77
3:AB:163:GLY:HA3	3:AB:203:LYS:CB	2.14	0.77
29:B1:573:C:H2'	29:B1:574:U:C6	2.17	0.77
29:B1:611:A:H5'	29:B1:612:U:OP1	1.83	0.77
29:B1:726:G:C5	29:B1:727:G:C2	2.72	0.77
29:B1:1913:A:C5	29:B1:2120:A:N7	2.52	0.77
29:B1:2424:A:H5"	29:B1:2425:G:OP2	1.83	0.77
29:B1:2649:A:H1'	29:B1:2696:A:H1'	1.65	0.77
30:B2:12:U:C2	30:B2:70:U:OP1	2.37	0.77
30:B2:30:G:N1	30:B2:49:G:N1	2.30	0.77
30:B2:95:A:H2'	30:B2:96:U:H6	1.48	0.77
31:B3:28:C:H5'	31:B3:29:U:OP2	1.84	0.77
31:B3:66:A:H2'	31:B3:67:U:C6	2.18	0.77
34:BC:198:HIS:HA	34:BC:201:LYS:CB	2.14	0.77
38:BG:74:SER:CB	38:BG:75:TYR:CA	2.62	0.77
1:C1:611:U:O2	7:CF:96:LYS:HA	1.84	0.77
1:C1:618:U:H5"	1:C1:1030:A:C2	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:963:A:HO2'	1:C1:964:U:H6	1.24	0.77
1:C1:1683:C:H2'	1:C1:1719:A:N1	1.98	0.77
10:CI:33:PHE:C	10:CI:35:LYS:H	1.91	0.77
29:D1:195:U:H4'	29:D1:1391:C:H5	1.48	0.77
29:D1:314:U:H2'	29:D1:315:C:C6	2.18	0.77
29:D1:363:G:C3'	29:D1:364:G:H5"	2.13	0.77
29:D1:550:A:OP2	29:D1:550:A:H8	1.65	0.77
29:D1:1192:C:C2	29:D1:1192:C:OP2	2.37	0.77
29:D1:1939:G:O2'	29:D1:1940:G:H5'	1.84	0.77
29:D1:2996:U:H4'	29:D1:2997:G:OP2	1.82	0.77
29:D1:3316:A:N1	29:D1:3388:C:N3	2.32	0.77
29:D1:3364:C:O2'	29:D1:3365:U:H5'	1.84	0.77
30:D2:16:U:H2'	30:D2:17:A:C8	2.19	0.77
34:DC:154:TYR:N	34:DC:155:ALA:HB2	1.97	0.77
36:DE:42:ALA:HB1	49:DT:69:LYS:CB	2.13	0.77
63:Dh:53:UNK:HA	63:Dh:54:UNK:CB	2.14	0.77
1:A1:389:G:H2'	1:A1:390:G:C8	2.19	0.77
1:A1:1003:A:C8	1:A1:1005:A:C5	2.71	0.77
1:A1:1269:U:H4'	1:A1:1270:G:O5'	1.84	0.77
1:A1:1472:C:H5	1:A1:1474:G:C2	2.01	0.77
2:AA:186:GLY:HA2	2:AA:187:ALA:CB	2.13	0.77
29:B1:126:U:O2'	29:B1:127:G:O5'	2.01	0.77
29:B1:190:U:C6	29:B1:224:C:O4'	2.37	0.77
29:B1:423:A:C2'	29:B1:424:G:O5'	2.33	0.77
29:B1:1819:U:C6	29:B1:1820:U:H5	2.02	0.77
29:B1:1930:A:H4'	29:B1:1931:U:OP1	1.85	0.77
29:B1:2682:C:N3	29:B1:2683:U:C5	2.52	0.77
29:B1:3195:U:H2'	29:B1:3196:U:C2	2.19	0.77
30:B2:30:G:N1	30:B2:49:G:C6	2.52	0.77
47:BR:43:PRO:O	47:BR:45:ASN:N	2.17	0.77
47:BR:110:ALA:O	47:BR:112:ALA:N	2.18	0.77
50:BU:129:VAL:O	50:BU:133:SER:CB	2.31	0.77
66:Bl:8:UNK:HA	66:Bl:11:UNK:CB	2.14	0.77
1:C1:44:U:H3'	1:C1:45:U:H5'	1.65	0.77
1:C1:1636:C:H4'	1:C1:1637:C:OP2	1.83	0.77
1:C1:1679:G:C2	1:C1:1680:G:H1'	2.20	0.77
29:D1:145:G:H5"	29:D1:146:U:OP2	1.84	0.77
29:D1:406:G:N2	31:D3:16:G:C4	2.51	0.77
29:D1:407:A:O2'	29:D1:408:A:H5'	1.83	0.77
29:D1:605:U:C5'	29:D1:605:U:H6	1.98	0.77
29:D1:1194:G:C4	29:D1:1309:U:O2	2.37	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1211:U:H2'	29:D1:1212:A:H8	1.48	0.77
29:D1:1289:G:H2'	29:D1:1290:A:C8	2.18	0.77
29:D1:1478:C:H2'	29:D1:1479:U:H6	1.49	0.77
29:D1:2266:U:N3	29:D1:2267:C:N4	2.33	0.77
29:D1:2678:A:C8	29:D1:2679:A:C2	2.72	0.77
29:D1:2900:A:N3	29:D1:2901:G:C8	2.53	0.77
29:D1:2970:C:H3'	29:D1:2971:A:H5"	1.65	0.77
29:D1:3281:U:N3	29:D1:3282:U:C4	2.53	0.77
34:DC:192:VAL:O	34:DC:195:ALA:HB3	1.84	0.77
1:A1:328:A:N6	1:A1:341:A:N6	2.32	0.77
1:A1:417:A:H8	1:A1:417:A:O5'	1.66	0.77
1:A1:647:G:N1	1:A1:648:G:C6	2.52	0.77
1:A1:1149:G:O6	1:A1:1629:G:N1	2.17	0.77
1:A1:1347:U:N3	1:A1:1376:C:N4	2.32	0.77
1:A1:1590:G:H2'	1:A1:1591:C:C6	2.19	0.77
1:A1:1645:G:N2	1:A1:1757:G:C4	2.52	0.77
1:A1:1764:C:H6	1:A1:1764:C:H5'	1.50	0.77
23:Ab:75:UNK:O	23:Ab:77:UNK:N	2.17	0.77
29:B1:515:C:N3	29:B1:516:A:C8	2.51	0.77
29:B1:535:G:H3'	29:B1:536:U:H5	1.50	0.77
29:B1:585:A:C3'	29:B1:586:C:H6	1.97	0.77
29:B1:625:G:H8	29:B1:625:G:H5'	1.47	0.77
29:B1:665:A:C2'	29:B1:666:A:H5'	2.14	0.77
29:B1:1435:A:C8	29:B1:1437:C:C6	2.71	0.77
29:B1:1747:G:H2'	29:B1:1748:G:H5'	1.65	0.77
29:B1:1857:C:O2'	29:B1:1858:A:O4'	2.03	0.77
29:B1:2838:A:C2	29:B1:2851:A:C4	2.72	0.77
29:B1:3273:A:O4'	29:B1:3273:A:OP1	2.01	0.77
29:B1:3378:C:O3'	34:BC:313:HIS:HA	1.84	0.77
1:C1:167:U:H6	1:C1:167:U:C5'	1.97	0.77
1:C1:173:A:N1	1:C1:174:U:H1'	2.00	0.77
1:C1:214:G:O2'	1:C1:215:A:H5'	1.83	0.77
1:C1:282:C:H2'	1:C1:283:U:H5'	1.65	0.77
1:C1:606:A:C8	1:C1:608:U:C5	2.72	0.77
29:D1:43:A:H62	29:D1:2802:A:H2	1.31	0.77
29:D1:64:G:C6	29:D1:322:U:C5	2.72	0.77
29:D1:157:A:H4'	29:D1:158:G:OP1	1.84	0.77
29:D1:385:A:H2'	29:D1:386:A:C8	2.19	0.77
29:D1:518:G:H22	29:D1:572:A:H61	1.29	0.77
29:D1:610:G:H5"	29:D1:611:A:OP2	1.84	0.77
29:D1:698:U:H1'	29:D1:699:A:OP1	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:936:A:H5"	29:D1:937:G:OP1	1.85	0.77
29:D1:1088:U:H2'	29:D1:1089:G:H8	1.48	0.77
29:D1:1278:A:O2'	29:D1:1279:C:H5'	1.83	0.77
29:D1:1441:G:O2'	29:D1:1442:U:H5"	1.85	0.77
29:D1:1794:G:O2'	29:D1:1796:G:N2	2.16	0.77
29:D1:2636:A:C5'	29:D1:2637:A:H5'	2.13	0.77
29:D1:2780:A:H2'	29:D1:2781:U:C6	2.18	0.77
29:D1:2842:U:H2'	29:D1:2842:U:O2	1.84	0.77
29:D1:3212:C:C4	29:D1:3213:A:H2	2.02	0.77
29:D1:3212:C:C4	29:D1:3213:A:C2	2.72	0.77
29:D1:3242:G:N2	29:D1:3244:A:H8	1.81	0.77
29:D1:3282:U:O2	29:D1:3283:U:C5	2.37	0.77
30:D2:9:C:H2'	30:D2:13:A:N6	1.99	0.77
30:D2:61:G:H2'	30:D2:62:U:H6	1.49	0.77
31:D3:95:G:H21	31:D3:95:G:P	2.07	0.77
1:A1:85:A:HO2'	1:A1:86:A:H8	0.82	0.77
1:A1:1018:U:H2'	1:A1:1019:A:H8	1.48	0.77
1:A1:1100:G:C8	16:AO:76:SER:HA	2.19	0.77
29:B1:118:U:N3	29:B1:150:A:N6	2.24	0.77
29:B1:382:U:H2'	29:B1:383:G:C4'	2.14	0.77
29:B1:910:G:C5	29:B1:911:C:C5	2.72	0.77
29:B1:1186:G:C2'	29:B1:1187:C:H5'	2.15	0.77
29:B1:1303:A:H8	29:B1:1304:A:C4	2.03	0.77
29:B1:1550:C:C2'	29:B1:1551:C:H5'	2.15	0.77
29:B1:2165:G:N2	29:B1:2170:U:C4	2.53	0.77
29:B1:2251:G:C1'	29:B1:2252:A:OP1	2.32	0.77
29:B1:2582:C:H5'	29:B1:2583:C:OP2	1.84	0.77
29:B1:3136:G:C6	29:B1:3137:C:C5	2.71	0.77
29:B1:3377:G:N3	29:B1:3379:C:OP2	2.17	0.77
47:BR:66:ARG:C	47:BR:68:ALA:H	1.92	0.77
56:Ba:30:PRO:C	56:Ba:32:ALA:H	1.90	0.77
1:C1:357:G:C5	1:C1:358:U:C5	2.73	0.77
1:C1:647:G:C2	1:C1:687:G:C2	2.72	0.77
1:C1:1410:A:H2'	1:C1:1411:A:O4'	1.83	0.77
1:C1:1613:U:O2	1:C1:1613:U:H2'	1.84	0.77
6:CE:122:VAL:O	6:CE:125:ALA:CB	2.30	0.77
29:D1:67:A:C4	29:D1:317:A:C8	2.73	0.77
29:D1:581:U:O2'	29:D1:582:G:H5'	1.84	0.77
29:D1:593:C:H3'	29:D1:594:U:O4'	1.84	0.77
29:D1:718:G:H4'	29:D1:719:U:C5'	2.14	0.77
29:D1:1269:U:H3	29:D1:1271:A:N6	1.81	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1313:G:H2'	29:D1:1314:C:H6	1.47	0.77
29:D1:1445:U:C6	29:D1:1446:A:C8	2.72	0.77
29:D1:1501:U:O2'	29:D1:1502:C:H5'	1.85	0.77
29:D1:1939:G:O4'	29:D1:2114:C:H1'	1.83	0.77
29:D1:2390:A:H4'	29:D1:3307:A:H2	1.48	0.77
29:D1:2663:G:H5'	29:D1:2664:C:OP2	1.84	0.77
29:D1:2704:A:OP2	74:D1:3402:OHX:N5	2.17	0.77
29:D1:2838:A:C2	29:D1:2851:A:C4	2.72	0.77
30:D2:11:A:O4'	30:D2:13:A:H2'	1.84	0.77
30:D2:12:U:O5'	30:D2:68:C:O2'	2.02	0.77
35:DD:7:THR:N	35:DD:19:ALA:HA	2.00	0.77
1:A1:44:U:H3'	1:A1:45:U:H5'	1.64	0.77
1:A1:224:C:H2'	1:A1:225:A:C8	2.19	0.77
1:A1:1152:A:O2'	1:A1:1153:G:H5'	1.84	0.77
1:A1:1600:A:HO2'	1:A1:1602:C:H5	0.79	0.77
29:B1:13:A:H5'	29:B1:14:U:OP1	1.85	0.77
29:B1:515:C:H1'	37:BF:145:LEU:HA	1.65	0.77
29:B1:774:G:O2'	29:B1:775:A:H5'	1.85	0.77
29:B1:882:A:C2	29:B1:885:U:C6	2.72	0.77
29:B1:943:U:OP1	54:BY:13:GLY:HA2	1.84	0.77
29:B1:1205:A:C6	29:B1:1206:G:N7	2.53	0.77
29:B1:1725:C:H2'	29:B1:1726:C:C6	2.20	0.77
29:B1:2314:U:OP2	29:B1:2314:U:H4'	1.85	0.77
29:B1:2690:G:N3	29:B1:2690:G:C2'	2.45	0.77
29:B1:2903:A:H2'	29:B1:2904:U:O4'	1.84	0.77
29:B1:2928:C:H2'	29:B1:2929:C:H5'	1.65	0.77
29:B1:3242:G:H1'	29:B1:3246:G:N2	2.00	0.77
30:B2:70:U:H2'	30:B2:71:G:H8	1.49	0.77
31:B3:95:G:H4'	59:Bd:72:ARG:HA	1.65	0.77
1:C1:321:C:C2'	1:C1:322:G:H5'	2.14	0.77
3:CB:239:PRO:C	3:CB:241:ASP:H	1.91	0.77
25:Cd:100:UNK:O	25:Cd:103:UNK:CB	2.33	0.77
29:D1:10:C:N4	31:D3:148:G:N1	2.31	0.77
29:D1:207:U:H2'	29:D1:208:C:C6	2.19	0.77
29:D1:585:A:C2'	29:D1:586:C:C6	2.67	0.77
29:D1:588:G:C5	29:D1:612:U:H5	2.03	0.77
29:D1:718:G:O6	29:D1:786:A:N7	2.18	0.77
29:D1:726:G:C5	29:D1:727:G:C2	2.73	0.77
29:D1:1454:A:H5"	29:D1:1878:G:C6	2.19	0.77
29:D1:1658:G:C8	29:D1:1796:G:N7	2.52	0.77
29:D1:2255:A:OP1	74:D1:3415:OHX:N5	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2714:G:H4'	29:D1:2715:A:OP1	1.82	0.77
29:D1:3141:A:H5'	29:D1:3143:C:C2	2.20	0.77
29:D1:3199:G:C3'	29:D1:3200:G:H8	1.97	0.77
29:D1:3203:U:H2'	29:D1:3204:C:C6	2.20	0.77
29:D1:3268:A:H1'	29:D1:3269:U:P	2.25	0.77
30:D2:64:A:H1'	30:D2:65:G:C5'	2.15	0.77
30:D2:89:G:N2	30:D2:91:G:O5'	2.18	0.77
34:DC:198:HIS:HA	34:DC:201:LYS:CB	2.15	0.77
45:DP:58:LEU:HA	45:DP:61:ALA:HB2	1.65	0.77
47:DR:96:PHE:HA	47:DR:97:PRO:CB	2.12	0.77
57:Db:83:GLU:C	57:Db:85:LEU:H	1.92	0.77
58:Dc:38:ARG:CB	58:Dc:39:PRO:HA	2.13	0.77
65:Dk:10:UNK:O	65:Dk:11:UNK:C	2.33	0.77
1:A1:243:G:C6	1:A1:251:A:C6	2.69	0.77
1:A1:243:G:N3	1:A1:251:A:N1	2.33	0.77
1:A1:369:A:H5'	1:A1:370:A:OP2	1.84	0.77
1:A1:621:A:N3	1:A1:1107:G:H1'	2.00	0.77
1:A1:1388:A:C5	1:A1:1411:A:C6	2.72	0.77
1:A1:1613:U:H3	1:A1:1614:A:H8	1.28	0.77
21:AT:21:THR:H	21:AT:37:SER:HA	1.49	0.77
26:Ae:12:UNK:O	26:Ae:15:UNK:N	2.18	0.77
29:B1:287:G:H2'	29:B1:288:C:H6	1.48	0.77
29:B1:511:G:N2	29:B1:580:C:C2	2.44	0.77
29:B1:620:U:H4'	29:B1:621:A:OP1	1.83	0.77
29:B1:1192:C:O3'	29:B1:1193:A:O4'	2.02	0.77
29:B1:1239:C:N4	29:B1:1249:G:O6	2.13	0.77
29:B1:2541:U:O2	29:B1:2541:U:H2'	1.84	0.77
29:B1:2699:G:H8	29:B1:2699:G:C5'	1.98	0.77
29:B1:3098:G:H5"	29:B1:3099:C:OP1	1.84	0.77
29:B1:3136:G:C6	29:B1:3137:C:C4	2.72	0.77
1:C1:48:G:C6	1:C1:432:G:N2	2.53	0.77
1:C1:231:U:O2	1:C1:234:G:O6	2.02	0.77
1:C1:288:A:N3	1:C1:289:U:H5	1.82	0.77
1:C1:1013:A:H2'	1:C1:1014:G:O4'	1.83	0.77
1:C1:1333:C:C2	1:C1:1419:G:N2	2.52	0.77
1:C1:1600:A:O2'	1:C1:1602:C:C5	2.33	0.77
29:D1:327:A:C2	29:D1:328:U:C5	2.72	0.77
29:D1:824:C:H2'	29:D1:825:U:C6	2.20	0.77
29:D1:1108:U:H2'	29:D1:1109:U:H6	1.48	0.77
29:D1:1189:C:H4'	29:D1:1192:C:C5	2.15	0.77
29:D1:1190:A:C2	29:D1:1191:U:H6	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1196:C:H5'	29:D1:1197:A:OP2	1.85	0.77
29:D1:1278:A:O2'	29:D1:1279:C:C6	2.29	0.77
29:D1:2482:U:O5'	32:DA:81:GLY:HA3	1.84	0.77
29:D1:2682:C:C4	29:D1:2683:U:C5	2.73	0.77
30:D2:64:A:H1'	30:D2:65:G:H5"	1.66	0.77
30:D2:105:C:O2	30:D2:105:C:H2'	1.85	0.77
38:DG:84:VAL:O	38:DG:86:VAL:N	2.17	0.77
58:Dc:3:GLY:HA3	58:Dc:4:VAL:CB	2.15	0.77
63:Dh:8:UNK:O	63:Dh:12:UNK:N	2.17	0.77
1:A1:44:U:H5'	1:A1:45:U:C4	2.19	0.77
1:A1:527:A:OP2	1:A1:528:U:H5'	1.85	0.77
1:A1:1636:C:N3	1:A1:1765:A:N6	2.33	0.77
29:B1:308:A:C2	29:B1:2782:U:N3	2.52	0.77
29:B1:606:C:N4	29:B1:607:A:N6	2.33	0.77
29:B1:636:C:C5	29:B1:2378:C:O4'	2.38	0.77
29:B1:649:A:C2	29:B1:650:C:C5	2.73	0.77
29:B1:1601:U:C5	29:B1:1604:G:C6	2.73	0.77
29:B1:1724:U:O2'	29:B1:1725:C:O4'	2.02	0.77
29:B1:2145:A:C2	29:B1:2146:C:C6	2.73	0.77
29:B1:2540:A:H2'	29:B1:2541:U:H6	1.50	0.77
29:B1:3079:U:H2'	29:B1:3079:U:O2	1.83	0.77
46:BQ:9:THR:HA	46:BQ:14:SER:H	1.50	0.77
58:Bc:41:LEU:N	58:Bc:42:PRO:CA	2.46	0.77
1:C1:224:C:H2'	1:C1:225:A:H8	1.49	0.77
1:C1:264:G:C3'	1:C1:265:A:H5'	2.15	0.77
1:C1:396:G:H2'	1:C1:397:A:O5'	1.85	0.77
1:C1:1274:C:H6	1:C1:1427:A:N6	1.81	0.77
1:C1:1570:A:C2	1:C1:1571:C:H1'	2.20	0.77
1:C1:1580:C:O2'	1:C1:1581:C:O4'	2.03	0.77
29:D1:250:U:H2'	29:D1:250:U:O2	1.84	0.77
29:D1:625:G:H2'	29:D1:626:U:C6	2.19	0.77
29:D1:744:A:C6	29:D1:745:C:N3	2.53	0.77
29:D1:1435:A:H5'	29:D1:1436:U:C5'	2.15	0.77
29:D1:1902:G:OP2	29:D1:2919:A:OP1	2.01	0.77
29:D1:2174:G:OP1	29:D1:2174:G:H8	1.66	0.77
29:D1:3218:A:H3'	29:D1:3220:G:OP2	1.85	0.77
29:D1:3365:U:H2'	29:D1:3366:G:C8	2.20	0.77
38:DG:69:ALA:HB1	38:DG:75:TYR:N	1.99	0.77
63:Dh:49:UNK:C	63:Dh:51:UNK:N	2.39	0.77
1:A1:380:U:H2'	1:A1:381:C:H6	1.47	0.77
1:A1:1193:A:H4'	1:A1:1194:A:OP2	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1491:U:H3'	1:A1:1492:A:H2'	1.67	0.77
1:A1:1626:U:H2'	1:A1:1627:U:H5'	1.64	0.77
1:A1:1632:C:O2'	1:A1:1633:A:H8	1.67	0.77
15:AN:102:ARG:C	15:AN:104:THR:H	1.92	0.77
29:B1:153:U:C4'	29:B1:158:G:H21	1.98	0.77
29:B1:293:C:N3	29:B1:294:U:O2	2.17	0.77
29:B1:504:A:C2	29:B1:587:U:N3	2.46	0.77
29:B1:549:U:H2'	29:B1:550:A:H8	1.49	0.77
29:B1:960:U:H2'	29:B1:961:C:O4'	1.83	0.77
29:B1:2271:A:H2'	29:B1:2272:G:C5'	2.11	0.77
29:B1:2514:U:H4'	29:B1:2515:A:OP1	1.83	0.77
29:B1:2880:U:C2'	29:B1:2881:C:H5'	2.14	0.77
29:B1:3219:G:OP1	29:B1:3220:G:H5"	1.85	0.77
29:B1:3271:G:N3	29:B1:3271:G:H2'	1.99	0.77
30:B2:91:G:C4	30:B2:92:A:N7	2.53	0.77
31:B3:67:U:H3'	31:B3:68:G:H8	1.50	0.77
34:BC:193:ASP:C	34:BC:195:ALA:H	1.89	0.77
34:BC:299:ASP:HA	34:BC:302:LYS:O	1.85	0.77
40:BI:86:TYR:CB	40:BI:87:LYS:HA	2.14	0.77
44:BO:85:THR:HA	44:BO:86:ASN:CB	2.14	0.77
46:BQ:128:ARG:HA	46:BQ:138:LYS:HA	1.67	0.77
1:C1:10:G:C8	1:C1:1633:A:C2	2.73	0.77
1:C1:169:A:C5	1:C1:171:A:C5	2.72	0.77
1:C1:224:C:H2'	1:C1:225:A:C8	2.20	0.77
1:C1:272:U:H4'	1:C1:273:G:OP2	1.85	0.77
1:C1:847:A:H2'	1:C1:848:C:H5"	1.67	0.77
1:C1:1237:G:H2'	1:C1:1238:A:H8	1.49	0.77
1:C1:1274:C:C6	1:C1:1427:A:N7	2.53	0.77
1:C1:1685:G:H22	1:C1:1718:G:H21	1.31	0.77
1:C1:1719:A:H5'	1:C1:1720:G:OP2	1.85	0.77
29:D1:679:U:H2'	29:D1:680:G:C8	2.20	0.77
29:D1:1154:A:H5'	29:D1:1155:C:C5	2.20	0.77
29:D1:1205:A:C6	29:D1:1206:G:N7	2.53	0.77
29:D1:1303:A:C2	29:D1:2887:A:C2	2.71	0.77
29:D1:1940:G:H2'	29:D1:1941:C:O4'	1.84	0.77
74:D3:202:OHX:N5	74:D3:212:OHX:N3	2.32	0.77
37:DF:43:LEU:H	37:DF:84:VAL:CB	1.96	0.77
37:DF:152:THR:HA	37:DF:156:LYS:N	2.00	0.77
41:DJ:177:ASP:HA	41:DJ:178:ARG:C	2.09	0.77
43:DN:9:ALA:O	43:DN:21:VAL:HA	1.84	0.77
44:DO:39:ALA:N	44:DO:62:TYR:HA	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DY:131:SER:O	54:DY:133:LEU:N	2.18	0.77
59:Dd:7:SER:O	59:Dd:9:GLY:N	2.18	0.77
1:A1:231:U:O2	1:A1:234:G:O6	2.03	0.77
1:A1:380:U:H2'	1:A1:380:U:O2	1.83	0.77
1:A1:749:U:H2'	1:A1:750:U:C6	2.20	0.77
1:A1:1356:U:H2'	1:A1:1357:A:H8	1.50	0.77
1:A1:1631:A:C1'	1:A1:1764:C:O2	2.33	0.77
1:A1:1773:C:C2	1:A1:1789:G:C2	2.73	0.77
29:B1:20:A:O2'	29:B1:21:G:O5'	2.02	0.77
29:B1:264:G:C5	29:B1:265:A:N6	2.52	0.77
29:B1:405:U:C5	29:B1:406:G:C4	2.72	0.77
29:B1:501:A:C6	29:B1:502:U:C4	2.73	0.77
29:B1:620:U:OP2	29:B1:620:U:H6	1.66	0.77
29:B1:775:A:H2'	29:B1:776:U:C4'	2.15	0.77
29:B1:1128:U:O2	29:B1:1128:U:H2'	1.85	0.77
29:B1:1914:G:H3'	29:B1:1915:A:H8	1.50	0.77
29:B1:2215:A:C2	29:B1:2216:G:C8	2.73	0.77
29:B1:3121:U:H4'	29:B1:3122:A:OP1	1.85	0.77
1:C1:914:G:H5"	74:C1:1927:OHX:N4	2.00	0.77
1:C1:1346:A:H2	15:CN:13:GLU:O	1.67	0.77
1:C1:1753:A:N1	1:C1:1754:A:N1	2.33	0.77
15:CN:17:GLN:CB	15:CN:18:GLN:C	2.58	0.77
29:D1:153:U:C4'	29:D1:158:G:H21	1.98	0.77
29:D1:284:A:H62	29:D1:2785:A:C4'	1.98	0.77
29:D1:511:G:N2	29:D1:579:G:N1	2.32	0.77
29:D1:636:C:H5	29:D1:2378:C:O4'	1.67	0.77
29:D1:893:C:H5"	29:D1:894:G:OP1	1.84	0.77
29:D1:910:G:C5	29:D1:911:C:C5	2.72	0.77
29:D1:1103:A:O2'	29:D1:1104:G:OP2	2.02	0.77
29:D1:1792:C:O3'	29:D1:1793:C:H3'	1.85	0.77
29:D1:1817:G:H2'	29:D1:1818:U:C6	2.19	0.77
29:D1:2223:A:O2'	29:D1:2224:A:C8	2.29	0.77
29:D1:2359:C:H2'	29:D1:2360:C:H6	1.50	0.77
29:D1:2690:G:O2'	29:D1:2691:A:OP1	2.03	0.77
29:D1:2776:C:H5'	29:D1:2777:G:H5"	1.65	0.77
29:D1:3302:U:O2'	29:D1:3303:G:O4'	2.01	0.77
30:D2:111:U:O3'	30:D2:112:G:O3'	2.03	0.77
33:DB:188:LYS:C	33:DB:190:ARG:H	1.88	0.77
38:DG:66:LYS:O	38:DG:69:ALA:HB3	1.84	0.77
1:A1:223:U:H3	1:A1:838:G:H1	1.33	0.77
1:A1:224:C:H2'	1:A1:225:A:H8	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:356:G:C6	1:A1:357:G:N7	2.53	0.77
1:A1:457:G:C2'	1:A1:458:G:H5'	2.15	0.77
1:A1:530:C:H2'	1:A1:531:C:C6	2.20	0.77
1:A1:1552:U:O2	1:A1:1552:U:H2'	1.84	0.77
29:B1:64:G:H1'	29:B1:77:A:N3	2.00	0.77
29:B1:585:A:C2'	29:B1:586:C:C6	2.68	0.77
29:B1:719:U:O2'	29:B1:720:A:C8	2.38	0.77
29:B1:742:G:H2'	29:B1:743:C:H5"	1.65	0.77
29:B1:1471:U:O2'	29:B1:1472:U:H5'	1.83	0.77
29:B1:1543:G:C2	29:B1:1544:G:C8	2.73	0.77
29:B1:1640:G:HO2'	29:B1:1641:U:H6	0.80	0.77
29:B1:1856:C:C2'	29:B1:1857:C:H5'	2.15	0.77
29:B1:2253:G:C6	29:B1:2254:U:C2	2.73	0.77
29:B1:2337:C:O2'	29:B1:2338:C:H5'	1.84	0.77
29:B1:2716:U:O2	29:B1:2716:U:H2'	1.85	0.77
29:B1:2885:C:O2'	29:B1:2886:U:H5'	1.85	0.77
29:B1:3277:U:C2'	29:B1:3278:C:H5'	2.15	0.77
29:B1:3316:A:N1	29:B1:3388:C:N4	2.33	0.77
29:B1:3327:G:C2	29:B1:3379:C:C2	2.72	0.77
1:C1:131:C:H2'	1:C1:131:C:O2	1.84	0.77
1:C1:143:G:C6	1:C1:172:C:N4	2.52	0.77
1:C1:427:C:C5'	1:C1:427:C:C6	2.66	0.77
1:C1:979:A:H2	1:C1:1775:U:H4'	1.47	0.77
21:CT:5:GLU:HA	21:CT:316:MET:O	1.84	0.77
29:D1:520:U:H3	37:DF:138:GLN:CB	1.98	0.77
29:D1:942:U:OP1	29:D1:1434:G:N7	2.18	0.77
29:D1:1194:G:C4'	29:D1:1320:C:OP1	2.32	0.77
29:D1:1240:A:H5'	72:DL:97:ASN:HA	1.65	0.77
29:D1:1464:G:H21	29:D1:1466:G:H3'	1.50	0.77
29:D1:1539:A:C2'	29:D1:1540:U:H5'	2.15	0.77
29:D1:1613:A:H2'	29:D1:1614:C:C6	2.19	0.77
29:D1:1798:A:C2	29:D1:1799:A:C4	2.72	0.77
29:D1:2665:U:O2	29:D1:2706:G:C2	2.37	0.77
29:D1:3111:U:C2'	29:D1:3112:G:H5'	2.14	0.77
29:D1:3135:U:C5	29:D1:3136:G:N7	2.52	0.77
29:D1:3215:A:H5"	29:D1:3218:A:OP1	1.85	0.77
29:D1:3242:G:H1'	29:D1:3246:G:N2	1.98	0.77
29:D1:3361:G:H2'	29:D1:3362:A:H5'	1.67	0.77
31:D3:75:G:OP1	31:D3:90:U:C5'	2.32	0.77
31:D3:78:G:C6	31:D3:79:A:N6	2.52	0.77
31:D3:144:G:C2'	31:D3:145:U:H5'	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DD:148:ILE:HA	35:DD:149:PRO:C	2.09	0.77
1:A1:625:C:O2'	1:A1:939:A:N3	2.17	0.76
1:A1:1149:G:H4'	1:A1:1150:G:OP1	1.83	0.76
1:A1:1338:C:C2	1:A1:1410:A:C2	2.73	0.76
1:A1:1584:G:C2	1:A1:1585:U:OP1	2.38	0.76
20:AS:23:VAL:O	74:AS:101:OHX:N5	2.18	0.76
29:B1:155:G:C4	29:B1:156:G:H2'	2.19	0.76
29:B1:155:G:OP1	29:B1:155:G:H2'	1.84	0.76
29:B1:398:A:H2	29:B1:1415:U:H5"	1.50	0.76
29:B1:674:G:H2'	29:B1:675:C:H6	1.49	0.76
29:B1:677:A:H4'	29:B1:678:G:O5'	1.84	0.76
29:B1:1156:C:H3'	29:B1:1157:G:C5'	2.14	0.76
29:B1:1741:A:H3'	29:B1:1742:U:C6	2.20	0.76
29:B1:1914:G:H5"	29:B1:1915:A:OP2	1.85	0.76
29:B1:2148:U:C4'	29:B1:2149:A:OP1	2.29	0.76
29:B1:2665:U:O2	29:B1:2706:G:C2	2.38	0.76
29:B1:2688:U:O3'	29:B1:2689:A:C8	2.39	0.76
29:B1:2743:A:H3'	29:B1:2744:U:H6	1.49	0.76
29:B1:2834:G:C4	29:B1:2835:U:C5	2.74	0.76
29:B1:2999:U:H2'	29:B1:3000:A:C8	2.20	0.76
29:B1:3099:C:HO2'	29:B1:3100:U:H6	0.77	0.76
29:B1:3328:G:H1	29:B1:3375:A:H62	1.32	0.76
36:BE:257:GLU:CA	36:BE:259:LYS:H	1.99	0.76
41:BJ:181:TYR:O	41:BJ:184:LYS:N	2.16	0.76
71:Br:7:UNK:O	71:Br:10:UNK:CB	2.33	0.76
1:C1:313:U:C5	1:C1:1118:G:N1	2.54	0.76
1:C1:621:A:N3	1:C1:1107:G:H1'	2.00	0.76
1:C1:879:G:O2'	1:C1:880:C:H5'	1.85	0.76
2:CA:106:SER:C	2:CA:108:THR:H	1.92	0.76
29:D1:515:C:N3	29:D1:516:A:C8	2.53	0.76
29:D1:1159:A:H2'	29:D1:1159:A:N3	2.00	0.76
29:D1:1193:A:N7	29:D1:1194:G:C2	2.53	0.76
29:D1:1201:C:H2'	29:D1:1202:A:H5'	1.68	0.76
29:D1:1901:A:OP2	29:D1:2919:A:OP1	2.02	0.76
29:D1:2148:U:H2'	29:D1:2149:A:C5	2.20	0.76
29:D1:2253:G:C6	29:D1:2254:U:C2	2.73	0.76
29:D1:2608:G:H2'	29:D1:2609:A:C8	2.19	0.76
29:D1:2885:C:O2'	29:D1:2886:U:H5'	1.83	0.76
29:D1:3291:G:H2'	29:D1:3292:A:C8	2.20	0.76
29:D1:3314:A:H2'	34:DC:119:TYR:CA	2.15	0.76
29:D1:3386:G:H2'	29:D1:3387:U:C6	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:67:G:N1	30:D2:68:C:C2	2.53	0.76
31:D3:59:A:H4'	31:D3:60:U:H5"	1.68	0.76
34:DC:159:ARG:O	34:DC:160:VAL:CB	2.32	0.76
37:DF:61:ASN:HA	37:DF:80:ASN:O	1.86	0.76
1:A1:28:A:H2'	1:A1:29:U:H6	1.49	0.76
1:A1:647:G:C2	1:A1:648:G:C6	2.73	0.76
1:A1:1150:G:C2	1:A1:1151:A:H1'	2.20	0.76
1:A1:1647:U:H2'	1:A1:1648:A:H8	1.49	0.76
23:Ab:107:UNK:C	23:Ab:109:UNK:N	2.44	0.76
29:B1:557:A:C8	29:B1:557:A:H3'	2.20	0.76
29:B1:606:C:C2'	29:B1:607:A:H1'	2.10	0.76
29:B1:821:U:O2'	29:B1:822:G:H5'	1.85	0.76
29:B1:826:G:O2'	29:B1:1589:A:C8	2.33	0.76
29:B1:888:A:C6	29:B1:889:U:N3	2.54	0.76
29:B1:1201:C:H2'	29:B1:1202:A:H5'	1.66	0.76
29:B1:1339:C:H2'	29:B1:1340:G:C8	2.20	0.76
29:B1:1658:G:C8	29:B1:1796:G:N7	2.54	0.76
29:B1:2253:G:H3'	29:B1:2254:U:C6	2.20	0.76
29:B1:2255:A:N7	74:B1:3438:OHX:N6	2.33	0.76
29:B1:2269:U:O2	29:B1:2269:U:H2'	1.84	0.76
29:B1:2675:C:H5	29:B1:2676:A:C6	2.04	0.76
30:B2:64:A:N1	30:B2:111:U:C4	2.53	0.76
37:BF:6:ALA:HA	38:BG:75:TYR:HA	1.66	0.76
38:BG:69:ALA:CB	38:BG:75:TYR:H	1.98	0.76
1:C1:989:U:H2'	1:C1:990:C:H6	1.45	0.76
1:C1:1374:C:H3'	1:C1:1375:A:C8	2.20	0.76
17:CP:48:HIS:HA	17:CP:105:ALA:HB2	1.67	0.76
21:CT:21:THR:H	21:CT:37:SER:HA	1.50	0.76
29:D1:153:U:H4'	29:D1:158:G:N2	2.01	0.76
29:D1:423:A:C2'	29:D1:424:G:O5'	2.33	0.76
29:D1:1072:G:H2'	29:D1:1073:U:C6	2.20	0.76
29:D1:1192:C:O3'	29:D1:1193:A:O4'	2.03	0.76
29:D1:1750:A:O3'	29:D1:1751:G:H8	1.67	0.76
29:D1:2102:U:H2'	29:D1:2103:U:C6	2.20	0.76
29:D1:2279:A:H4'	29:D1:2280:A:H5'	1.65	0.76
29:D1:2727:A:C2	29:D1:2729:U:H5	2.03	0.76
29:D1:2903:A:H2'	29:D1:2904:U:O4'	1.85	0.76
30:D2:41:G:H2'	30:D2:41:G:N3	1.98	0.76
31:D3:42:G:H5"	59:Dd:55:ARG:CB	2.15	0.76
46:DQ:47:TYR:C	46:DQ:49:GLU:H	1.92	0.76
1:A1:283:U:H3'	1:A1:284:G:C5'	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:778:G:N2	1:A1:783:G:C5	2.53	0.76
1:A1:1351:G:C5	1:A1:1352:G:N7	2.53	0.76
10:AI:36:LEU:HA	10:AI:37:ALA:HB3	1.67	0.76
29:B1:155:G:P	29:B1:155:G:H8	2.08	0.76
29:B1:430:U:H2'	29:B1:431:U:H5'	1.66	0.76
29:B1:679:U:H2'	29:B1:680:G:H8	1.49	0.76
29:B1:796:U:H2'	29:B1:797:U:C6	2.21	0.76
29:B1:1265:U:H2'	29:B1:1266:G:H8	1.50	0.76
29:B1:1435:A:H8	29:B1:1437:C:C6	2.03	0.76
29:B1:2467:G:H21	29:B1:2488:A:H62	1.31	0.76
29:B1:2829:U:H2'	29:B1:2830:G:H5'	1.67	0.76
30:B2:10:C:O3'	30:B2:13:A:C8	2.38	0.76
43:BN:9:ALA:O	43:BN:21:VAL:HA	1.85	0.76
1:C1:27:U:C2	1:C1:28:A:C8	2.73	0.76
1:C1:85:A:O2'	1:C1:86:A:H8	1.69	0.76
1:C1:515:A:OP2	74:C1:1933:OHX:N6	2.19	0.76
1:C1:1237:G:H2'	1:C1:1238:A:C8	2.19	0.76
1:C1:1338:C:C2	1:C1:1410:A:C2	2.73	0.76
1:C1:1351:G:H2'	1:C1:1352:G:O4'	1.85	0.76
1:C1:1466:G:C6	1:C1:1467:C:N4	2.54	0.76
1:C1:1474:G:H2'	1:C1:1475:A:C8	2.20	0.76
15:CN:66:SER:HA	15:CN:81:THR:HA	1.67	0.76
29:D1:126:U:O2'	29:D1:127:G:O5'	2.03	0.76
29:D1:504:A:C8	29:D1:504:A:C3'	2.67	0.76
29:D1:1453:A:N9	29:D1:1850:A:H2	1.83	0.76
29:D1:1679:A:C2	29:D1:1680:G:N7	2.53	0.76
29:D1:2120:A:HO2'	29:D1:2121:G:P	2.08	0.76
29:D1:2467:G:H21	29:D1:2488:A:H62	1.30	0.76
29:D1:2520:A:H2'	29:D1:2521:U:C2	2.20	0.76
29:D1:2877:G:H2'	29:D1:2878:G:O4'	1.84	0.76
29:D1:3074:G:O2'	29:D1:3075:G:H5'	1.83	0.76
29:D1:3302:U:C3'	29:D1:3303:G:H5"	2.16	0.76
30:D2:91:G:C4	30:D2:92:A:N7	2.53	0.76
31:D3:92:A:H2'	31:D3:93:U:H5'	1.66	0.76
51:DV:45:ASN:O	51:DV:47:ARG:N	2.17	0.76
1:A1:855:A:O2'	1:A1:856:A:H5'	1.85	0.76
1:A1:1196:A:H4'	1:A1:1197:C:C5'	2.16	0.76
1:A1:1347:U:H3	1:A1:1376:C:N4	1.84	0.76
1:A1:1348:A:N3	1:A1:1378:U:C6	2.52	0.76
1:A1:1631:A:C6	1:A1:1636:C:C5	2.73	0.76
6:AE:55:ALA:O	6:AE:58:ASP:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:77:ARG:HA	10:AI:95:GLY:H	1.50	0.76
29:B1:157:A:H2'	29:B1:158:G:C5	2.19	0.76
29:B1:187:A:H1'	29:B1:211:A:N6	2.00	0.76
29:B1:284:A:C2	29:B1:306:A:C1'	2.55	0.76
29:B1:620:U:OP2	29:B1:620:U:C6	2.38	0.76
29:B1:716:A:C4	29:B1:716:A:OP2	2.38	0.76
29:B1:996:A:H2'	29:B1:997:A:O4'	1.85	0.76
29:B1:1462:A:H2'	29:B1:1463:U:C6	2.21	0.76
29:B1:2858:U:H2'	29:B1:2859:U:C5	2.20	0.76
29:B1:3013:U:C5'	29:B1:3013:U:C6	2.68	0.76
29:B1:3297:U:C2	29:B1:3298:C:C5	2.73	0.76
29:B1:3394:U:H2'	29:B1:3395:G:N7	1.99	0.76
34:BC:230:THR:O	34:BC:234:GLY:HA2	1.86	0.76
37:BF:161:ALA:O	37:BF:165:LEU:CB	2.33	0.76
1:C1:217:A:H1'	1:C1:218:A:H5'	1.67	0.76
1:C1:410:A:H2	1:C1:423:G:H22	1.33	0.76
1:C1:973:A:H2'	1:C1:974:A:C8	2.19	0.76
1:C1:1347:U:H3	1:C1:1376:C:N4	1.83	0.76
1:C1:1650:U:C3'	1:C1:1651:A:H8	1.99	0.76
29:D1:11:A:H1'	29:D1:1557:A:N6	2.00	0.76
29:D1:709:A:H8	29:D1:709:A:OP1	1.69	0.76
29:D1:725:G:C2'	29:D1:726:G:H5"	2.15	0.76
29:D1:880:G:N9	29:D1:882:A:N7	2.32	0.76
29:D1:1079:A:C6	29:D1:1080:A:C6	2.74	0.76
29:D1:1166:G:C2'	29:D1:1167:U:H5"	2.15	0.76
29:D1:1448:U:C5	29:D1:2355:G:C2	2.73	0.76
29:D1:2357:A:N1	29:D1:2983:C:H5	1.83	0.76
29:D1:2727:A:OP2	49:DT:80:VAL:O	2.03	0.76
29:D1:3089:C:H3'	29:D1:3090:U:H5"	1.67	0.76
31:D3:76:C:C4'	31:D3:77:A:OP1	2.34	0.76
31:D3:104:A:H5'	31:D3:105:A:O5'	1.86	0.76
31:D3:152:G:C2	31:D3:153:U:H1'	2.20	0.76
36:DE:257:GLU:CA	36:DE:259:LYS:H	1.98	0.76
1:A1:61:A:H2'	1:A1:61:A:N3	1.99	0.76
1:A1:396:G:N2	1:A1:398:G:H3'	2.01	0.76
1:A1:750:U:O2'	1:A1:751:G:H5'	1.85	0.76
3:AB:133:LYS:O	3:AB:135:SER:N	2.18	0.76
5:AD:141:GLY:HA2	5:AD:171:ALA:HB2	1.67	0.76
29:B1:607:A:C8	29:B1:607:A:OP2	2.38	0.76
29:B1:698:U:H1'	29:B1:699:A:OP1	1.85	0.76
29:B1:1228:C:H2'	29:B1:1229:G:O4'	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2725:U:C4	29:B1:2727:A:C2	2.72	0.76
29:B1:3000:A:H2'	29:B1:3001:C:H6	1.49	0.76
29:B1:3049:A:N3	34:BC:75:ALA:HB2	2.00	0.76
30:B2:23:A:C3'	30:B2:24:A:H8	1.99	0.76
31:B3:152:G:C2	31:B3:153:U:H1'	2.20	0.76
37:BF:124:GLU:O	37:BF:126:GLN:N	2.15	0.76
1:C1:76:A:H1'	1:C1:77:U:C5	2.21	0.76
1:C1:284:G:H4'	1:C1:285:G:OP1	1.85	0.76
1:C1:1382:A:C5'	15:CN:59:PRO:HA	2.15	0.76
1:C1:1592:A:H2'	1:C1:1593:A:C8	2.20	0.76
15:CN:102:ARG:C	15:CN:104:THR:H	1.93	0.76
23:Cb:126:UNK:HA	23:Cb:133:UNK:O	1.86	0.76
24:Cc:88:UNK:C	24:Cc:90:UNK:N	2.45	0.76
29:D1:956:U:H1'	29:D1:2729:U:O4	1.84	0.76
29:D1:1047:A:H61	29:D1:2646:C:H1'	1.48	0.76
29:D1:3367:C:O2'	29:D1:3368:U:H5"	1.86	0.76
30:D2:42:A:H2	30:D2:47:C:C4	2.03	0.76
30:D2:68:C:H2'	30:D2:69:C:O4'	1.85	0.76
34:DC:165:GLN:O	34:DC:166:ILE:O	2.03	0.76
37:DF:159:LEU:C	37:DF:161:ALA:H	1.92	0.76
38:DG:68:ASP:O	38:DG:71:ALA:HB3	1.85	0.76
44:DO:78:GLY:CA	44:DO:79:ALA:HB2	2.16	0.76
1:A1:445:A:H2'	1:A1:446:A:H8	1.50	0.76
1:A1:757:A:C4	1:A1:758:U:C6	2.73	0.76
1:A1:1091:A:H4'	1:A1:1092:A:O5'	1.82	0.76
1:A1:1158:C:H42	1:A1:1163:A:H61	1.33	0.76
26:Ae:18:UNK:C	26:Ae:20:UNK:N	2.46	0.76
29:B1:1154:A:H5'	29:B1:1155:C:C5	2.20	0.76
29:B1:1716:U:H3'	29:B1:1717:U:C5'	2.15	0.76
29:B1:1939:G:C2'	29:B1:1940:G:H5'	2.15	0.76
29:B1:2147:A:C5'	29:B1:2147:A:C8	2.67	0.76
29:B1:2450:G:H2'	29:B1:2451:G:H5'	1.65	0.76
29:B1:2633:U:O4	49:BT:3:LYS:N	2.19	0.76
29:B1:2676:A:H2	29:B1:2680:A:C6	2.03	0.76
29:B1:2888:U:N3	29:B1:2910:A:C2	2.54	0.76
29:B1:3257:C:O2'	29:B1:3258:U:C5	2.39	0.76
29:B1:3328:G:N2	29:B1:3375:A:N7	2.34	0.76
30:B2:44:C:C4	30:B2:45:A:N7	2.54	0.76
30:B2:68:C:O2	30:B2:69:C:C1'	2.33	0.76
1:C1:84:A:C2'	1:C1:85:A:H5'	2.11	0.76
1:C1:274:G:H2'	1:C1:275:C:C6	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:528:U:H4'	1:C1:529:A:O4'	1.85	0.76
1:C1:646:C:C3'	1:C1:647:G:H5"	2.16	0.76
1:C1:1047:G:O6	1:C1:1071:U:O4	2.04	0.76
1:C1:1099:U:C6	1:C1:1100:G:C6	2.74	0.76
1:C1:1348:A:H2'	1:C1:1349:G:H5"	1.68	0.76
1:C1:1763:A:H3'	1:C1:1764:C:H5"	1.67	0.76
23:Cb:5:UNK:HA	23:Cb:15:UNK:CB	2.15	0.76
29:D1:33:G:N2	29:D1:50:U:C4	2.54	0.76
29:D1:405:U:C5	29:D1:406:G:C4	2.73	0.76
29:D1:405:U:C5	29:D1:406:G:C5	2.73	0.76
29:D1:605:U:H6	29:D1:605:U:H5"	1.50	0.76
29:D1:775:A:H2'	29:D1:776:U:C4'	2.15	0.76
29:D1:1898:G:N7	29:D1:1899:G:N7	2.34	0.76
29:D1:2182:A:O2'	29:D1:2183:A:H5'	1.86	0.76
29:D1:2689:A:C2	29:D1:2702:A:H2	2.02	0.76
29:D1:2834:G:N3	29:D1:2835:U:C6	2.54	0.76
29:D1:3377:G:N3	74:D1:3452:OHX:N2	2.34	0.76
47:DR:68:ALA:O	47:DR:71:LEU:O	2.03	0.76
59:Dd:59:THR:C	59:Dd:61:THR:H	1.91	0.76
1:A1:707:A:H2'	1:A1:731:C:H42	1.50	0.76
1:A1:1092:A:O2'	1:A1:1093:A:H3'	1.86	0.76
29:B1:65:A:H3'	29:B1:111:C:H41	1.48	0.76
29:B1:125:C:H2'	29:B1:126:U:H5'	1.67	0.76
29:B1:591:G:N2	29:B1:592:A:N9	2.34	0.76
29:B1:740:G:C6	29:B1:741:U:H5	2.03	0.76
29:B1:893:C:H5"	29:B1:894:G:OP1	1.86	0.76
29:B1:1198:C:C6	29:B1:1200:A:C8	2.73	0.76
29:B1:1412:G:C4	29:B1:1413:G:C8	2.74	0.76
29:B1:1504:A:H3'	29:B1:1505:C:C5'	2.16	0.76
29:B1:1560:G:OP2	29:B1:1560:G:H3'	1.85	0.76
29:B1:1949:G:H2'	29:B1:1950:U:C6	2.20	0.76
29:B1:2743:A:C5	29:B1:2744:U:C4	2.74	0.76
29:B1:2912:G:C5	29:B1:2913:C:N3	2.53	0.76
29:B1:2985:C:H2'	29:B1:2986:U:C6	2.20	0.76
29:B1:3328:G:H1	29:B1:3375:A:N6	1.84	0.76
30:B2:88:G:C5	30:B2:89:G:N7	2.53	0.76
44:BO:160:GLU:O	44:BO:161:ALA:HB2	1.86	0.76
45:BP:56:ASP:C	45:BP:60:LYS:H	1.92	0.76
46:BQ:99:ALA:O	46:BQ:102:ALA:HB3	1.86	0.76
47:BR:68:ALA:O	47:BR:71:LEU:O	2.02	0.76
22:Bo:3:UNK:O	22:Bo:5:UNK:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:43:A:C2’	1:C1:44:U:H5”	2.14	0.76
1:C1:292:U:H2’	1:C1:293:U:C6	2.20	0.76
1:C1:825:U:C5	1:C1:847:A:C6	2.64	0.76
1:C1:986:G:C2’	1:C1:987:G:H8	1.99	0.76
1:C1:1720:G:H2’	1:C1:1721:A:O4’	1.86	0.76
2:CA:145:ALA:O	2:CA:160:ILE:HA	1.85	0.76
4:CC:80:ALA:C	4:CC:82:GLY:H	1.93	0.76
29:D1:523:A:C2’	29:D1:524:U:H5’	2.15	0.76
29:D1:564:G:P	29:D1:565:U:OP1	2.43	0.76
29:D1:576:C:C2’	29:D1:577:C:C5’	2.55	0.76
29:D1:661:G:C4	29:D1:802:C:O4’	2.38	0.76
29:D1:1180:A:C2	29:D1:1182:A:C4	2.73	0.76
29:D1:1357:G:H2’	29:D1:1358:C:C6	2.20	0.76
29:D1:1705:U:O2’	29:D1:1706:C:O4’	2.03	0.76
29:D1:2560:C:H6	29:D1:2560:C:O5’	1.69	0.76
29:D1:2895:G:O2’	29:D1:2896:A:H5”	1.84	0.76
29:D1:2966:G:O2’	29:D1:2967:A:H5’	1.85	0.76
29:D1:3180:A:H8	45:DP:114:LYS:CB	1.99	0.76
29:D1:3383:G:C2	29:D1:3384:U:C4	2.74	0.76
30:D2:73:C:H42	30:D2:74:C:N4	1.84	0.76
34:DC:169:THR:O	34:DC:170:PRO:C	2.28	0.76
36:DE:96:ALA:O	36:DE:100:ALA:N	2.18	0.76
1:A1:847:A:H2’	1:A1:848:C:H5’	1.68	0.76
1:A1:1281:G:C4	1:A1:1282:U:C5	2.74	0.76
1:A1:1327:C:C2’	1:A1:1328:G:H5’	2.16	0.76
6:AE:142:ASN:O	6:AE:144:PRO:N	2.19	0.76
29:B1:287:G:O2’	29:B1:288:C:H5’	1.85	0.76
29:B1:559:A:C4	29:B1:560:G:N7	2.54	0.76
29:B1:1047:A:H61	29:B1:2646:C:H1’	1.49	0.76
29:B1:1303:A:N3	29:B1:1303:A:O4’	2.17	0.76
29:B1:2148:U:H2’	29:B1:2149:A:C5	2.21	0.76
29:B1:2667:A:N6	29:B1:2690:G:C2	2.52	0.76
29:B1:2727:A:C2	29:B1:2729:U:H5	2.03	0.76
29:B1:3110:C:C2	29:B1:3111:U:C6	2.73	0.76
29:B1:3333:G:N2	29:B1:3370:A:H4’	2.00	0.76
30:B2:46:A:OP2	30:B2:46:A:C5	2.39	0.76
36:BE:238:ASP:O	36:BE:240:TYR:N	2.18	0.76
42:BK:135:GLY:HA2	42:BK:151:SER:CB	2.15	0.76
1:C1:410:A:C2	1:C1:411:C:C2	2.73	0.76
1:C1:804:A:H2’	1:C1:805:U:H6	1.49	0.76
1:C1:1651:A:N3	1:C1:1652:C:C6	2.54	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1686:C:H2'	1:C1:1687:U:C6	2.21	0.76
6:CE:62:ARG:N	6:CE:63:ASP:CB	2.49	0.76
29:D1:674:G:H2'	29:D1:675:C:C6	2.21	0.76
29:D1:1158:A:O2'	29:D1:1330:A:H2	1.66	0.76
29:D1:1303:A:H8	29:D1:1304:A:C4	2.02	0.76
29:D1:1794:G:H4'	29:D1:1795:U:OP2	1.84	0.76
29:D1:1875:G:C3'	29:D1:1876:U:H5"	2.15	0.76
29:D1:3209:A:C6	29:D1:3210:A:C6	2.74	0.76
29:D1:3221:C:N3	29:D1:3222:U:C5	2.54	0.76
29:D1:3392:U:H2'	29:D1:3393:U:C6	2.21	0.76
42:DK:101:ASN:O	42:DK:103:GLY:N	2.19	0.76
46:DQ:33:ALA:C	46:DQ:35:ALA:H	1.94	0.76
1:A1:61:A:C4'	1:A1:62:A:O5'	2.29	0.76
1:A1:167:U:H6	1:A1:167:U:C5'	1.98	0.76
1:A1:298:C:H6	1:A1:298:C:H3'	1.51	0.76
1:A1:983:A:H2'	1:A1:984:G:H8	1.47	0.76
1:A1:1109:G:H2'	1:A1:1110:G:C5'	2.16	0.76
1:A1:1238:A:H2'	1:A1:1239:U:H5'	1.67	0.76
1:A1:1351:G:H2'	1:A1:1352:G:O4'	1.85	0.76
1:A1:1557:U:O5'	1:A1:1560:U:O4	2.04	0.76
1:A1:1613:U:O2	1:A1:1613:U:H2'	1.84	0.76
1:A1:1675:C:H1'	1:A1:1677:C:N3	2.00	0.76
9:AH:100:ALA:O	9:AH:104:ALA:CB	2.34	0.76
21:AT:91:LEU:CB	21:AT:101:GLN:O	2.34	0.76
29:B1:46:U:C2'	29:B1:47:C:H5'	2.16	0.76
29:B1:540:U:H2'	29:B1:541:U:C6	2.20	0.76
29:B1:597:G:C4	29:B1:598:A:C8	2.74	0.76
29:B1:660:A:N1	29:B1:1435:A:C2	2.54	0.76
29:B1:680:G:H2'	29:B1:681:U:C6	2.20	0.76
29:B1:762:U:H5	74:B1:3479:OHX:N3	1.83	0.76
29:B1:775:A:C2'	29:B1:776:U:C4'	2.64	0.76
29:B1:1103:A:O2'	29:B1:1104:G:OP2	2.02	0.76
29:B1:1366:A:C2	29:B1:1367:G:C4	2.74	0.76
29:B1:1804:A:H2'	29:B1:1805:C:C6	2.21	0.76
29:B1:2390:A:H4'	29:B1:3307:A:H2	1.51	0.76
29:B1:2918:G:C2	29:B1:2919:A:C8	2.74	0.76
29:B1:2955:U:H2'	29:B1:2956:A:H8	1.50	0.76
29:B1:3198:U:C2'	29:B1:3199:G:C8	2.69	0.76
50:BU:17:LEU:CB	50:BU:52:ALA:HB3	2.16	0.76
70:Bq:6:UNK:O	70:Bq:7:UNK:C	2.30	0.76
1:C1:606:A:C5	1:C1:608:U:H5	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:647:G:C2	1:C1:648:G:C6	2.74	0.76
1:C1:1197:C:O2	1:C1:1197:C:H2'	1.85	0.76
2:CA:17:LEU:C	2:CA:19:ALA:N	2.42	0.76
14:CM:55:TYR:O	14:CM:58:ALA:HB3	1.86	0.76
29:D1:13:A:H5'	29:D1:14:U:OP1	1.85	0.76
29:D1:66:A:H62	29:D1:76:G:H21	1.34	0.76
29:D1:1139:G:C8	29:D1:1139:G:H5'	2.21	0.76
29:D1:3098:G:H5"	29:D1:3099:C:OP1	1.85	0.76
29:D1:3234:A:H2	29:D1:3253:G:H22	1.34	0.76
29:D1:3323:A:H5"	56:Da:13:THR:O	1.85	0.76
44:DO:83:LYS:H	44:DO:85:THR:N	1.84	0.76
44:DO:84:PRO:HA	74:DO:301:OHX:N6	2.01	0.76
45:DP:194:LEU:O	45:DP:198:GLY:N	2.19	0.76
1:A1:179:A:O2'	1:A1:180:A:H5'	1.84	0.76
1:A1:222:A:OP2	1:A1:833:U:H1'	1.85	0.76
1:A1:439:U:H1'	1:A1:440:U:OP1	1.84	0.76
1:A1:1138:A:O2'	1:A1:1139:A:H5'	1.86	0.76
1:A1:1754:A:O2'	1:A1:1755:A:P	2.44	0.76
1:A1:1791:A:O2'	1:A1:1793:G:H5'	1.86	0.76
20:AS:42:CYS:O	20:AS:44:ARG:N	2.17	0.76
29:B1:660:A:C2	29:B1:1435:A:C2	2.74	0.76
29:B1:943:U:O2	29:B1:1431:G:H2'	1.86	0.76
29:B1:1504:A:C5	29:B1:1505:C:C5	2.74	0.76
29:B1:2369:G:H2'	29:B1:2370:G:C8	2.19	0.76
30:B2:31:U:C6	30:B2:32:U:H5	2.03	0.76
30:B2:121:U:HO3'	36:BE:266:ALA:HB3	1.50	0.76
31:B3:81:U:H3'	31:B3:82:U:C5'	2.16	0.76
33:BB:78:ALA:O	33:BB:80:GLU:N	2.19	0.76
34:BC:60:LEU:O	34:BC:62:ARG:N	2.17	0.76
1:C1:36:C:H2'	1:C1:37:U:C6	2.21	0.76
1:C1:396:G:N2	1:C1:398:G:H3'	1.99	0.76
1:C1:400:A:C4'	1:C1:401:A:H5'	2.16	0.76
1:C1:757:A:C5	1:C1:758:U:C5	2.74	0.76
1:C1:804:A:H2'	1:C1:805:U:C6	2.21	0.76
1:C1:1099:U:O2'	1:C1:1100:G:N9	2.18	0.76
1:C1:1467:C:H2'	1:C1:1468:U:C6	2.20	0.76
1:C1:1515:A:H2'	1:C1:1516:A:C4'	2.16	0.76
1:C1:1579:U:H2'	1:C1:1580:C:C6	2.21	0.76
1:C1:1650:U:H3'	1:C1:1651:A:H8	1.51	0.76
29:D1:588:G:C2	29:D1:612:U:C5	2.74	0.76
29:D1:807:A:H3'	29:D1:808:A:H5"	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1647:A:N1	29:D1:1809:A:H1'	2.01	0.76
29:D1:2326:A:H2'	29:D1:2326:A:N3	2.01	0.76
29:D1:2676:A:C2	29:D1:2680:A:C6	2.74	0.76
29:D1:2727:A:N1	29:D1:2728:G:C6	2.53	0.76
29:D1:3191:G:C6	29:D1:3202:G:N1	2.54	0.76
30:D2:23:A:H3'	30:D2:24:A:C8	2.20	0.76
30:D2:25:G:N3	30:D2:26:C:C4	2.54	0.76
31:D3:71:A:C4'	31:D3:72:A:OP1	2.34	0.76
74:D3:202:OHX:N5	74:D3:212:OHX:N5	2.34	0.76
35:DD:100:PHE:O	35:DD:101:ALA:C	2.26	0.76
36:DE:109:THR:O	36:DE:252:ALA:HB2	1.86	0.76
40:DI:42:ASP:O	40:DI:43:VAL:CB	2.34	0.76
41:DJ:75:TYR:O	41:DJ:76:MET:C	2.28	0.76
42:DK:135:GLY:HA2	42:DK:151:SER:CB	2.16	0.76
43:DN:71:ALA:O	43:DN:72:LEU:C	2.27	0.76
1:A1:1235:C:H2'	1:A1:1236:A:H8	1.49	0.75
1:A1:1364:G:C3'	1:A1:1365:C:H5'	2.16	0.75
29:B1:210:U:O4	35:BD:161:LYS:HA	1.85	0.75
29:B1:501:A:N6	29:B1:502:U:C4	2.54	0.75
29:B1:1170:A:OP2	74:B1:3537:OHX:N3	2.18	0.75
29:B1:1394:A:C8	29:B1:1395:G:C8	2.74	0.75
29:B1:1875:G:C3'	29:B1:1876:U:H5"	2.17	0.75
29:B1:2257:C:H3'	29:B1:2258:U:H6	1.52	0.75
29:B1:2763:U:O4	29:B1:2794:G:N1	2.15	0.75
29:B1:3117:C:C2'	29:B1:3118:C:H5'	2.15	0.75
29:B1:3179:U:O2'	29:B1:3180:A:P	2.44	0.75
30:B2:25:G:N3	30:B2:26:C:C4	2.54	0.75
35:BD:115:HIS:O	35:BD:117:GLU:N	2.20	0.75
37:BF:40:LEU:HA	37:BF:85:ILE:CB	2.16	0.75
42:BK:139:THR:C	42:BK:141:ARG:H	1.94	0.75
1:C1:524:U:H3'	1:C1:524:U:O2	1.86	0.75
1:C1:1183:A:H2'	1:C1:1210:C:O2'	1.86	0.75
1:C1:1497:U:C2	1:C1:1498:G:C8	2.74	0.75
1:C1:1775:U:O2'	1:C1:1776:A:H5'	1.86	0.75
29:D1:661:G:C6	29:D1:802:C:C6	2.74	0.75
29:D1:851:C:H2'	29:D1:852:U:C6	2.21	0.75
29:D1:2194:G:C2'	29:D1:2195:C:H5'	2.15	0.75
29:D1:2643:A:H3'	29:D1:2644:C:H5"	1.68	0.75
29:D1:2993:G:N3	29:D1:2993:G:H2'	2.01	0.75
30:D2:70:U:H2'	30:D2:71:G:H8	1.51	0.75
49:DT:50:LYS:C	49:DT:52:MET:H	1.93	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:364:G:N2	1:A1:381:C:C6	2.54	0.75
1:A1:629:U:C2'	1:A1:630:A:H8	1.94	0.75
1:A1:1099:U:OP1	1:A1:1099:U:C4'	2.35	0.75
1:A1:1552:U:H5'	1:A1:1553:G:OP2	1.86	0.75
6:AE:122:VAL:O	6:AE:125:ALA:CB	2.32	0.75
29:B1:152:U:H2'	29:B1:153:U:H6	1.49	0.75
29:B1:712:G:H21	29:B1:753:C:P	2.09	0.75
29:B1:1196:C:C5	29:B1:1197:A:C5	2.74	0.75
29:B1:2561:A:H2'	29:B1:2562:A:H8	1.52	0.75
29:B1:2703:A:H61	36:BE:26:GLY:HA2	1.51	0.75
29:B1:3047:U:O2'	29:B1:3048:A:C5'	2.29	0.75
29:B1:3320:A:OP2	29:B1:3320:A:H3'	1.86	0.75
36:BE:103:LEU:O	36:BE:106:ALA:O	2.03	0.75
52:BW:57:LEU:CB	52:BW:58:ASP:CB	2.64	0.75
1:C1:110:U:H3'	1:C1:111:U:H5"	1.68	0.75
1:C1:192:U:H2'	1:C1:193:U:O4'	1.86	0.75
1:C1:304:U:O2	1:C1:304:U:H2'	1.84	0.75
1:C1:527:A:OP2	1:C1:528:U:H5'	1.86	0.75
1:C1:544:A:C2	1:C1:545:A:H8	2.03	0.75
1:C1:625:C:O2'	1:C1:939:A:N3	2.17	0.75
1:C1:772:G:C5	1:C1:773:C:N3	2.54	0.75
1:C1:862:A:C4	1:C1:963:A:N6	2.54	0.75
1:C1:1043:A:H2'	1:C1:1044:U:C5	2.21	0.75
1:C1:1524:A:C2'	1:C1:1525:A:C8	2.63	0.75
3:CB:162:CYS:H	3:CB:209:ASN:CB	1.99	0.75
10:CI:36:LEU:HA	10:CI:37:ALA:HB3	1.67	0.75
29:D1:113:C:C2'	29:D1:114:A:H5'	2.16	0.75
29:D1:323:A:H5'	29:D1:324:A:OP2	1.85	0.75
29:D1:537:A:N7	29:D1:556:U:O4	2.18	0.75
29:D1:882:A:C2	29:D1:885:U:C6	2.74	0.75
29:D1:1042:U:OP2	29:D1:1042:U:C6	2.39	0.75
29:D1:1716:U:H3'	29:D1:1717:U:C5'	2.15	0.75
29:D1:1794:G:N1	33:DB:185:ALA:HB1	2.00	0.75
29:D1:2215:A:H2'	29:D1:2215:A:N3	2.00	0.75
29:D1:2431:C:H2'	29:D1:2432:A:H8	1.51	0.75
30:D2:42:A:C4	30:D2:45:A:N6	2.55	0.75
1:A1:336:G:C2'	1:A1:337:G:H5"	2.17	0.75
1:A1:524:U:H3'	1:A1:524:U:O2	1.87	0.75
1:A1:646:C:C3'	1:A1:647:G:H5"	2.15	0.75
1:A1:1540:G:C2'	1:A1:1541:G:H5'	2.17	0.75
1:A1:1631:A:N3	1:A1:1638:G:N2	2.28	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1650:U:H3'	1:A1:1651:A:C8	2.21	0.75
7:AF:122:ILE:N	7:AF:144:ALA:HB3	2.00	0.75
17:AP:135:LEU:HA	17:AP:139:LYS:HA	1.68	0.75
29:B1:31:C:H2'	29:B1:32:U:H5'	1.66	0.75
29:B1:736:A:H2'	29:B1:737:G:H8	1.49	0.75
29:B1:773:G:C2'	29:B1:774:G:C8	2.70	0.75
29:B1:1268:G:C5	29:B1:1269:U:H1'	2.21	0.75
29:B1:1388:U:O4	29:B1:1389:G:O6	2.03	0.75
29:B1:1495:U:H2'	29:B1:1842:A:C2	2.21	0.75
29:B1:2150:G:H2'	29:B1:2151:C:C5'	2.14	0.75
29:B1:2277:C:C5'	29:B1:2317:A:H4'	2.16	0.75
29:B1:2278:C:N4	29:B1:2305:G:C8	2.55	0.75
29:B1:2673:A:HO2'	42:BK:107:ASP:HA	1.48	0.75
29:B1:2676:A:O2'	29:B1:2677:G:H5"	1.85	0.75
29:B1:3039:C:C2	29:B1:3040:A:C8	2.75	0.75
29:B1:3090:U:H4'	29:B1:3090:U:OP1	1.87	0.75
35:BD:193:LYS:O	35:BD:195:ARG:N	2.19	0.75
1:C1:380:U:C2'	1:C1:381:C:H6	1.98	0.75
1:C1:446:A:C5	1:C1:447:U:C5	2.74	0.75
29:D1:536:U:OP2	29:D1:536:U:C6	2.38	0.75
29:D1:1779:C:C4'	29:D1:1780:G:H5"	2.12	0.75
29:D1:2251:G:C1'	29:D1:2252:A:OP1	2.34	0.75
29:D1:2383:C:H2'	29:D1:2384:A:H8	1.49	0.75
29:D1:2393:G:N1	29:D1:2982:A:H2	1.82	0.75
29:D1:2673:A:H61	29:D1:2681:U:H3	1.34	0.75
29:D1:3024:A:N3	29:D1:3024:A:C2'	2.48	0.75
34:DC:62:ARG:O	34:DC:64:GLY:N	2.18	0.75
1:A1:131:C:O2	1:A1:131:C:H2'	1.86	0.75
1:A1:402:C:N4	1:A1:424:C:OP2	2.20	0.75
1:A1:963:A:O2'	1:A1:964:U:H6	1.69	0.75
1:A1:1560:U:O2	1:A1:1560:U:C2'	2.35	0.75
29:B1:498:A:H2'	29:B1:499:G:C8	2.21	0.75
29:B1:556:U:H2'	29:B1:557:A:O4'	1.85	0.75
29:B1:564:G:OP1	29:B1:564:G:O3'	2.05	0.75
29:B1:836:A:C2	29:B1:858:A:H1'	2.22	0.75
29:B1:1681:U:H2'	29:B1:1681:U:O2	1.86	0.75
29:B1:1817:G:H2'	29:B1:1818:U:C6	2.21	0.75
29:B1:2678:A:H8	29:B1:2679:A:C2	2.04	0.75
29:B1:3116:G:O2'	29:B1:3117:C:H5'	1.86	0.75
29:B1:3378:C:O2	29:B1:3378:C:H2'	1.85	0.75
31:B3:64:U:H2'	31:B3:64:U:O2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:107:G:H2'	31:B3:108:C:H5'	1.67	0.75
38:BG:111:ILE:O	38:BG:112:ASN:C	2.27	0.75
45:BP:17:GLY:O	45:BP:20:ALA:HB3	1.86	0.75
1:C1:1326:A:O2'	1:C1:1327:C:H5'	1.87	0.75
1:C1:1364:G:C3'	1:C1:1365:C:H5'	2.16	0.75
1:C1:1540:G:C2'	1:C1:1541:G:H5'	2.17	0.75
29:D1:86:G:N2	29:D1:98:G:H2'	2.01	0.75
29:D1:288:C:H2'	29:D1:289:A:C8	2.20	0.75
29:D1:517:G:H2'	29:D1:518:G:C1'	2.17	0.75
29:D1:1229:G:H2'	29:D1:1230:G:H8	1.51	0.75
29:D1:1268:G:H5'	29:D1:1269:U:OP2	1.87	0.75
29:D1:1901:A:O3'	29:D1:2918:G:H5'	1.87	0.75
29:D1:2420:C:C4	29:D1:2421:U:C5	2.75	0.75
29:D1:2546:C:H5"	29:D1:2547:A:OP2	1.86	0.75
29:D1:2680:A:H3'	29:D1:2681:U:H5'	1.68	0.75
29:D1:2792:A:H8	29:D1:2792:A:O5'	1.69	0.75
29:D1:2923:U:C2	29:D1:2924:U:H5	2.04	0.75
29:D1:3099:C:O2'	29:D1:3100:U:P	2.44	0.75
29:D1:3136:G:C6	29:D1:3137:C:C4	2.74	0.75
29:D1:3198:U:H3'	29:D1:3199:G:C8	2.21	0.75
29:D1:3314:A:C8	34:DC:119:TYR:HA	2.21	0.75
29:D1:3353:G:N3	29:D1:3353:G:H2'	2.00	0.75
1:A1:407:A:H2'	1:A1:408:C:C6	2.21	0.75
1:A1:1562:G:H2'	1:A1:1563:C:H6	1.48	0.75
1:A1:1678:A:H2	1:A1:1725:U:N3	1.85	0.75
29:B1:385:A:H2'	29:B1:386:A:C8	2.22	0.75
29:B1:1079:A:C6	29:B1:1080:A:N6	2.55	0.75
29:B1:1139:G:H8	29:B1:1139:G:H5"	1.49	0.75
29:B1:1159:A:H2'	29:B1:1159:A:N3	1.98	0.75
29:B1:2309:A:N3	29:B1:2962:U:H5'	2.02	0.75
29:B1:2431:C:H2'	29:B1:2432:A:H8	1.49	0.75
29:B1:2573:G:H2'	29:B1:2574:G:O4'	1.87	0.75
29:B1:2681:U:OP2	42:BK:51:ARG:O	2.04	0.75
29:B1:2812:C:H2'	29:B1:2813:A:C8	2.20	0.75
29:B1:3316:A:N1	29:B1:3388:C:N3	2.34	0.75
74:B1:3492:OHX:N5	54:BY:19:LYS:O	2.19	0.75
33:BB:81:GLY:O	62:Bg:64:VAL:HA	1.87	0.75
39:BH:81:THR:O	39:BH:82:LEU:C	2.30	0.75
43:BN:47:ASP:CB	43:BN:54:PRO:O	2.34	0.75
65:Bk:7:UNK:O	65:Bk:11:UNK:CB	2.33	0.75
1:C1:929:A:H5"	1:C1:930:A:OP2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1382:A:H5'	15:CN:59:PRO:HA	1.68	0.75
1:C1:1455:G:C5	1:C1:1456:C:N3	2.54	0.75
1:C1:1651:A:C2	1:C1:1652:C:C6	2.74	0.75
17:CP:132:LEU:N	17:CP:133:LEU:CA	2.49	0.75
29:D1:23:A:H2'	29:D1:23:A:N3	1.99	0.75
29:D1:596:C:O2	29:D1:597:G:C5'	2.33	0.75
29:D1:740:G:C6	29:D1:741:U:C5	2.74	0.75
29:D1:826:G:C4	29:D1:827:A:C8	2.74	0.75
29:D1:963:G:H5'	29:D1:963:G:C8	2.19	0.75
29:D1:2289:U:C2	29:D1:2290:C:C5	2.74	0.75
29:D1:2520:A:C2	29:D1:2521:U:N3	2.53	0.75
29:D1:3280:U:OP2	29:D1:3280:U:H6	1.68	0.75
29:D1:3360:C:O2	29:D1:3360:C:H2'	1.86	0.75
30:D2:77:G:O2'	30:D2:78:U:P	2.44	0.75
31:D3:106:C:H4'	31:D3:107:G:O5'	1.86	0.75
33:DB:182:ALA:C	33:DB:184:ARG:N	2.43	0.75
36:DE:141:PRO:CB	36:DE:142:PHE:CA	2.63	0.75
41:DJ:181:TYR:O	41:DJ:184:LYS:N	2.18	0.75
47:DR:18:ALA:HA	47:DR:53:PHE:CB	2.17	0.75
1:A1:1065:A:H2'	1:A1:1066:C:C6	2.21	0.75
1:A1:1632:C:O2'	1:A1:1633:A:OP1	2.03	0.75
29:B1:420:G:N3	29:B1:2384:A:H2'	2.02	0.75
29:B1:1492:G:H3'	29:B1:1493:G:N2	2.02	0.75
29:B1:2553:U:H1'	29:B1:2554:A:H5'	1.69	0.75
29:B1:3210:A:C6	29:B1:3211:C:N4	2.54	0.75
30:B2:59:U:H2'	30:B2:60:G:C8	2.21	0.75
1:C1:318:U:H3	1:C1:346:G:H1	1.35	0.75
1:C1:609:U:H5"	1:C1:610:G:N7	2.02	0.75
1:C1:1148:C:N3	1:C1:1149:G:O6	2.20	0.75
1:C1:1221:A:H2'	1:C1:1222:C:H6	1.49	0.75
1:C1:1349:G:H4'	1:C1:1350:U:H5'	1.69	0.75
1:C1:1492:A:H4'	1:C1:1493:A:OP1	1.86	0.75
29:D1:353:G:O2'	29:D1:364:G:O6	2.04	0.75
29:D1:361:A:C2	29:D1:928:C:O4'	2.39	0.75
29:D1:705:A:C6	29:D1:715:A:N7	2.54	0.75
29:D1:1164:G:H2'	29:D1:1165:A:C8	2.21	0.75
29:D1:1167:U:H5'	29:D1:1167:U:C6	2.21	0.75
29:D1:1341:U:H2'	29:D1:1342:C:H6	1.50	0.75
29:D1:2145:A:C2	29:D1:2146:C:C6	2.75	0.75
29:D1:2253:G:H3'	29:D1:2254:U:C6	2.22	0.75
29:D1:2702:A:C8	29:D1:2704:A:N6	2.55	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2829:U:H2'	29:D1:2830:G:H5'	1.69	0.75
29:D1:2888:U:C5	29:D1:2910:A:C6	2.75	0.75
29:D1:3136:G:C6	29:D1:3137:C:C5	2.74	0.75
74:D1:3543:OHX:N6	38:DG:217:PRO:O	2.20	0.75
31:D3:128:U:H5"	31:D3:129:C:C5	2.18	0.75
1:A1:1237:G:H2'	1:A1:1238:A:C8	2.21	0.75
29:B1:244:G:H2'	29:B1:245:U:H5"	1.67	0.75
29:B1:420:G:C2	29:B1:2384:A:C4	2.74	0.75
29:B1:595:G:C2	29:B1:610:G:OP1	2.39	0.75
29:B1:945:C:H5"	29:B1:946:U:OP2	1.87	0.75
29:B1:1157:G:H5'	29:B1:1157:G:C8	2.21	0.75
29:B1:1245:A:H4'	29:B1:1246:G:O5'	1.87	0.75
29:B1:1504:A:C4	29:B1:1505:C:C5	2.74	0.75
29:B1:1679:A:C2	29:B1:1680:G:N7	2.55	0.75
29:B1:1912:U:O2'	29:B1:1913:A:O5'	2.04	0.75
29:B1:2185:G:C6	29:B1:2186:U:C4	2.74	0.75
29:B1:2652:U:H2'	29:B1:2653:C:C6	2.22	0.75
29:B1:2775:U:O2'	29:B1:2776:C:O5'	2.04	0.75
29:B1:3026:G:N2	29:B1:3030:G:C5	2.55	0.75
30:B2:12:U:O5'	30:B2:68:C:O2'	2.03	0.75
30:B2:116:C:H2'	30:B2:117:A:C8	2.22	0.75
34:BC:142:ALA:O	34:BC:144:ILE:N	2.19	0.75
34:BC:164:THR:CB	34:BC:177:HIS:H	1.99	0.75
37:BF:156:LYS:O	37:BF:159:LEU:N	2.20	0.75
58:Bc:41:LEU:H	58:Bc:42:PRO:HA	1.50	0.75
1:C1:250:C:N3	1:C1:251:A:C5	2.55	0.75
1:C1:402:C:O2	1:C1:403:G:C4'	2.35	0.75
1:C1:764:U:H3	1:C1:772:G:H1	1.32	0.75
1:C1:1150:G:C2	1:C1:1151:A:H1'	2.21	0.75
1:C1:1675:C:H1'	1:C1:1677:C:N3	2.02	0.75
5:CD:141:GLY:HA2	5:CD:171:ALA:HB2	1.69	0.75
15:CN:68:ARG:CA	15:CN:79:TRP:HA	2.07	0.75
29:D1:73:C:OP2	29:D1:74:G:O5'	2.05	0.75
29:D1:218:G:H1'	29:D1:372:A:H1'	1.68	0.75
29:D1:594:U:C2	29:D1:595:G:C5	2.75	0.75
29:D1:627:U:H4'	29:D1:1399:A:H1'	1.69	0.75
29:D1:1103:A:O2'	29:D1:1104:G:P	2.43	0.75
29:D1:1288:U:C6	29:D1:1288:U:H5"	2.22	0.75
29:D1:1390:A:C5	29:D1:1418:A:C5	2.74	0.75
29:D1:2554:A:N1	33:DB:86:GLN:HA	2.01	0.75
29:D1:2603:G:H3'	29:D1:2604:U:H6	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3271:G:H2'	29:D1:3271:G:N3	2.02	0.75
30:D2:25:G:N2	30:D2:26:C:C2	2.54	0.75
31:D3:91:C:H2'	31:D3:92:A:C8	2.22	0.75
31:D3:107:G:H2'	31:D3:108:C:H5'	1.69	0.75
35:DD:119:ARG:C	35:DD:121:ALA:H	1.94	0.75
36:DE:118:THR:HA	36:DE:121:GLY:O	1.86	0.75
1:A1:282:C:H2'	1:A1:283:U:H5'	1.67	0.75
1:A1:518:A:H61	1:A1:535:A:H1'	1.51	0.75
1:A1:530:C:H5"	1:A1:531:C:OP2	1.87	0.75
1:A1:733:A:H4'	1:A1:734:A:N7	2.02	0.75
1:A1:1456:C:H5"	1:A1:1457:C:C5'	2.16	0.75
29:B1:250:U:H2'	29:B1:250:U:O2	1.85	0.75
29:B1:349:A:C2	31:B3:24:G:C4	2.75	0.75
29:B1:515:C:C3'	29:B1:516:A:C5'	2.63	0.75
29:B1:609:G:C5	29:B1:610:G:C6	2.75	0.75
29:B1:1042:U:H2'	29:B1:1043:C:H6	1.51	0.75
29:B1:1193:A:N7	29:B1:1194:G:C2	2.54	0.75
29:B1:1624:G:N2	29:B1:1822:C:C4	2.55	0.75
29:B1:2680:A:H61	42:BK:56:THR:C	1.95	0.75
29:B1:2746:A:H2	36:BE:146:LEU:CB	2.00	0.75
29:B1:3027:A:C2'	29:B1:3028:G:C8	2.68	0.75
29:B1:3214:U:O3'	29:B1:3218:A:C5'	2.35	0.75
29:B1:3320:A:C6	29:B1:3321:C:N4	2.55	0.75
30:B2:22:A:H2'	30:B2:23:A:C8	2.21	0.75
30:B2:98:C:H5'	30:B2:99:G:OP2	1.85	0.75
1:C1:16:G:C2	1:C1:17:C:C4	2.74	0.75
1:C1:29:U:O2'	1:C1:30:G:H5'	1.86	0.75
1:C1:108:A:H2'	1:C1:109:G:C8	2.21	0.75
1:C1:162:A:H2'	1:C1:163:G:C8	2.21	0.75
1:C1:170:U:OP2	1:C1:267:U:O2'	2.04	0.75
1:C1:179:A:O2'	1:C1:180:A:H5'	1.86	0.75
1:C1:362:G:O6	1:C1:382:C:N4	2.16	0.75
1:C1:1174:C:H2'	1:C1:1175:U:C6	2.21	0.75
1:C1:1487:A:H2'	1:C1:1488:G:H8	1.50	0.75
1:C1:1562:G:H2'	1:C1:1563:C:H6	1.52	0.75
1:C1:1620:C:H2'	1:C1:1620:C:O2	1.86	0.75
29:D1:25:U:O2'	29:D1:26:A:H5'	1.87	0.75
29:D1:125:C:H2'	29:D1:126:U:H5'	1.69	0.75
29:D1:157:A:H2'	29:D1:158:G:C5	2.21	0.75
29:D1:244:G:H2'	29:D1:245:U:H5"	1.69	0.75
29:D1:420:G:C2	29:D1:2384:A:C4	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:542:G:H1	29:D1:549:U:H3	1.35	0.75
29:D1:751:A:N3	29:D1:751:A:H2'	2.02	0.75
29:D1:888:A:C6	29:D1:889:U:N3	2.55	0.75
29:D1:1246:G:C6	29:D1:1264:G:N2	2.55	0.75
29:D1:1459:C:C2'	29:D1:1460:A:H5'	2.16	0.75
29:D1:2147:A:C5'	29:D1:2147:A:H8	2.00	0.75
29:D1:2540:A:H2'	29:D1:2541:U:H6	1.52	0.75
29:D1:2640:A:H2'	29:D1:2641:U:C6	2.19	0.75
29:D1:3249:C:H2'	29:D1:3249:C:O2	1.87	0.75
74:D1:3408:OHX:N2	74:D1:3582:OHX:N3	2.35	0.75
30:D2:44:C:C4	30:D2:45:A:N7	2.53	0.75
34:DC:105:VAL:O	34:DC:106:TRP:C	2.28	0.75
34:DC:193:ASP:C	34:DC:195:ALA:H	1.94	0.75
42:DK:139:THR:C	42:DK:141:ARG:H	1.94	0.75
1:A1:149:C:H3'	1:A1:150:U:C6	2.21	0.75
1:A1:174:U:O2	1:A1:174:U:H2'	1.87	0.75
1:A1:361:C:N4	1:A1:384:G:N1	2.35	0.75
1:A1:806:A:C2'	1:A1:807:A:H5"	2.17	0.75
1:A1:977:A:C6	1:A1:1025:A:C4	2.75	0.75
1:A1:1032:G:N2	1:A1:1033:C:C2	2.55	0.75
1:A1:1044:U:H2'	1:A1:1044:U:O2	1.85	0.75
1:A1:1046:G:C5	1:A1:1073:G:N2	2.54	0.75
1:A1:1219:A:C5'	1:A1:1220:C:H5	1.96	0.75
1:A1:1570:A:H3'	1:A1:1571:C:H6	1.52	0.75
14:AM:28:LEU:C	14:AM:30:VAL:H	1.94	0.75
29:B1:13:A:H61	31:B3:144:G:H1	1.35	0.75
29:B1:871:U:H2'	29:B1:872:U:H6	1.49	0.75
29:B1:963:G:H5'	29:B1:963:G:C8	2.17	0.75
29:B1:1177:G:H8	29:B1:1177:G:O5'	1.68	0.75
29:B1:1940:G:H2'	29:B1:1941:C:O4'	1.87	0.75
29:B1:2249:G:H2'	29:B1:2250:G:C1'	2.17	0.75
29:B1:2370:G:C4	29:B1:2371:G:C8	2.75	0.75
30:B2:12:U:OP2	30:B2:68:C:H4'	1.87	0.75
30:B2:24:A:H2'	30:B2:25:G:H8	1.51	0.75
30:B2:33:U:O2	30:B2:33:U:H2'	1.87	0.75
33:BB:188:LYS:C	33:BB:190:ARG:N	2.41	0.75
44:BO:85:THR:HA	44:BO:87:GLN:H	1.49	0.75
1:C1:10:G:N7	1:C1:1633:A:C2	2.55	0.75
1:C1:72:A:C6	1:C1:82:U:O2	2.40	0.75
1:C1:149:C:C3'	1:C1:150:U:H6	1.99	0.75
1:C1:283:U:O3'	1:C1:284:G:H4'	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:647:G:N1	1:C1:648:G:C6	2.54	0.75
1:C1:1171:A:H2'	1:C1:1172:G:C8	2.22	0.75
1:C1:1356:U:H2'	1:C1:1357:A:H8	1.51	0.75
2:CA:146:LEU:HA	2:CA:160:ILE:HA	1.68	0.75
25:Cd:112:UNK:O	25:Cd:113:UNK:C	2.33	0.75
29:D1:186:U:O2	29:D1:186:U:H2'	1.87	0.75
29:D1:1196:C:H5	29:D1:1197:A:C6	2.05	0.75
29:D1:1303:A:N1	29:D1:2887:A:C6	2.55	0.75
29:D1:1378:U:H2'	29:D1:1379:G:H8	1.51	0.75
29:D1:1714:A:H1'	29:D1:1731:A:N6	2.01	0.75
29:D1:2277:C:C5'	29:D1:2317:A:H4'	2.13	0.75
29:D1:2407:C:C2	29:D1:2408:U:C5	2.75	0.75
29:D1:2904:U:O2	29:D1:2904:U:H3'	1.87	0.75
29:D1:3198:U:C2'	29:D1:3199:G:C8	2.69	0.75
29:D1:3260:G:H2'	29:D1:3260:G:N3	2.02	0.75
31:D3:105:A:H4'	31:D3:106:C:C5	2.22	0.75
33:DB:209:HIS:O	33:DB:210:PRO:O	2.04	0.75
36:DE:103:LEU:N	36:DE:166:ALA:HA	2.01	0.75
1:A1:1084:A:O2'	1:A1:1085:G:H5'	1.85	0.74
1:A1:1274:C:OP2	1:A1:1428:G:O5'	2.05	0.74
1:A1:1382:A:H5'	15:AN:59:PRO:HA	1.68	0.74
15:AN:12:GLN:O	15:AN:14:GLN:N	2.20	0.74
29:B1:73:C:OP2	29:B1:74:G:O5'	2.04	0.74
29:B1:155:G:OP2	29:B1:155:G:H8	1.69	0.74
29:B1:609:G:C4'	29:B1:610:G:OP1	2.35	0.74
29:B1:750:G:C2'	29:B1:751:A:H8	1.97	0.74
29:B1:985:U:H2'	29:B1:986:U:C6	2.21	0.74
29:B1:988:U:H2'	29:B1:989:A:H8	1.52	0.74
29:B1:1380:G:H2'	29:B1:1380:G:N3	2.01	0.74
29:B1:2182:A:O2'	29:B1:2183:A:H5'	1.85	0.74
29:B1:2222:A:N6	29:B1:2783:U:H5'	2.02	0.74
29:B1:2358:A:H2'	29:B1:2359:C:O4'	1.87	0.74
29:B1:3140:G:H5"	29:B1:3140:G:C8	2.19	0.74
31:B3:142:C:H2'	31:B3:142:C:O2	1.86	0.74
54:BY:28:HIS:O	54:BY:30:GLY:N	2.20	0.74
1:C1:273:G:C8	1:C1:273:G:OP1	2.40	0.74
1:C1:321:C:O2'	1:C1:322:G:H5'	1.87	0.74
1:C1:407:A:H2'	1:C1:408:C:C6	2.21	0.74
1:C1:847:A:H2'	1:C1:848:C:H5'	1.68	0.74
29:D1:60:A:H2'	29:D1:61:A:H5'	1.67	0.74
29:D1:512:U:N3	29:D1:579:G:N1	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:593:C:O2	29:D1:594:U:H4'	1.87	0.74
29:D1:659:G:C2'	29:D1:660:A:C8	2.69	0.74
29:D1:1741:A:H3'	29:D1:1742:U:C6	2.21	0.74
29:D1:1856:C:O2'	29:D1:1857:C:H5'	1.87	0.74
29:D1:2232:A:H2'	29:D1:2233:A:O4'	1.87	0.74
29:D1:2580:A:H1'	29:D1:2581:U:OP2	1.86	0.74
29:D1:3079:U:H2'	29:D1:3079:U:O2	1.87	0.74
29:D1:3113:A:C2	29:D1:3122:A:C5	2.74	0.74
31:D3:34:U:H2'	31:D3:34:U:O2	1.86	0.74
1:A1:380:U:C2'	1:A1:381:C:H6	2.00	0.74
1:A1:542:A:O2'	1:A1:543:C:H3'	1.87	0.74
1:A1:1068:C:H2'	1:A1:1069:A:H8	1.51	0.74
1:A1:1377:U:H2'	1:A1:1378:U:C4'	2.15	0.74
21:AT:5:GLU:HA	21:AT:316:MET:O	1.86	0.74
24:Ac:7:UNK:HA	24:Ac:68:UNK:CA	2.14	0.74
29:B1:173:G:O6	29:B1:245:U:C2	2.40	0.74
29:B1:392:G:C6	29:B1:393:U:H5	2.05	0.74
29:B1:542:G:H1	29:B1:549:U:H3	1.33	0.74
29:B1:880:G:C8	29:B1:882:A:N7	2.54	0.74
29:B1:2327:U:H2'	29:B1:2327:U:O2	1.86	0.74
29:B1:2420:C:C2'	29:B1:2421:U:H5'	2.17	0.74
29:B1:2667:A:H3'	29:B1:2667:A:C4	2.21	0.74
29:B1:2676:A:H2	29:B1:2680:A:N1	1.85	0.74
29:B1:2928:C:C2'	29:B1:2929:C:H5'	2.15	0.74
29:B1:3024:A:N3	29:B1:3024:A:C2'	2.50	0.74
29:B1:3096:C:H2'	29:B1:3097:C:C6	2.21	0.74
29:B1:3127:A:H3'	29:B1:3128:G:C8	2.20	0.74
30:B2:2:G:H2'	30:B2:3:U:C6	2.22	0.74
54:BY:80:THR:C	54:BY:82:ILE:N	2.45	0.74
1:C1:14:C:OP2	3:CB:162:CYS:C	2.30	0.74
1:C1:150:U:O2	1:C1:150:U:H2'	1.87	0.74
1:C1:169:A:C4	1:C1:171:A:N7	2.55	0.74
1:C1:380:U:HO2'	1:C1:381:C:H6	1.35	0.74
1:C1:446:A:C4	1:C1:447:U:C5	2.75	0.74
1:C1:1201:G:C4	1:C1:1202:A:O4'	2.39	0.74
1:C1:1334:U:C2	1:C1:1335:U:C6	2.74	0.74
1:C1:1402:G:C4	1:C1:1403:C:C5	2.75	0.74
1:C1:1586:A:C5	1:C1:1611:A:C2	2.75	0.74
1:C1:1632:C:HO2'	1:C1:1633:A:H8	1.34	0.74
29:D1:2900:A:C2	29:D1:2901:G:N7	2.55	0.74
29:D1:3090:U:O2'	29:D1:3091:A:P	2.45	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3111:U:H2'	29:D1:3112:G:H5'	1.69	0.74
29:D1:3191:G:C2	29:D1:3202:G:C2	2.75	0.74
29:D1:3214:U:O3'	29:D1:3218:A:C5'	2.36	0.74
29:D1:3321:C:HO2'	29:D1:3322:A:H8	0.80	0.74
30:D2:23:A:H2'	30:D2:24:A:C8	2.21	0.74
1:A1:62:A:H3'	1:A1:62:A:OP2	1.86	0.74
1:A1:1137:A:H2	1:A1:1138:A:C5	2.05	0.74
1:A1:1339:C:O2'	1:A1:1340:U:H5'	1.87	0.74
1:A1:1559:A:N3	1:A1:1559:A:H2'	2.02	0.74
5:AD:93:LEU:O	5:AD:95:ASN:N	2.20	0.74
17:AP:127:VAL:HA	17:AP:128:SER:C	2.11	0.74
23:Ab:22:UNK:O	23:Ab:24:UNK:N	2.20	0.74
29:B1:86:G:N2	29:B1:98:G:H2'	2.02	0.74
29:B1:423:A:H2'	29:B1:424:G:H8	1.51	0.74
29:B1:693:A:H2'	29:B1:694:C:C6	2.21	0.74
29:B1:1060:U:H4'	29:B1:1060:U:OP1	1.86	0.74
29:B1:1482:A:C4'	29:B1:1483:G:OP2	2.31	0.74
29:B1:1558:A:OP1	29:B1:1559:A:C1'	2.34	0.74
29:B1:2723:U:H2'	29:B1:2724:U:C6	2.21	0.74
29:B1:3073:A:H2'	29:B1:3074:G:O5'	1.87	0.74
29:B1:3181:C:O2	29:B1:3181:C:H2'	1.87	0.74
29:B1:3303:G:C1'	29:B1:3304:U:H5'	2.17	0.74
29:B1:3386:G:H8	29:B1:3386:G:O5'	1.69	0.74
33:BB:188:LYS:C	33:BB:190:ARG:H	1.93	0.74
37:BF:124:GLU:C	37:BF:126:GLN:H	1.96	0.74
1:C1:811:A:O2'	1:C1:858:G:H8	1.70	0.74
1:C1:855:A:O2'	1:C1:856:A:H5'	1.87	0.74
1:C1:884:A:H2'	1:C1:885:G:C8	2.22	0.74
1:C1:1138:A:C2	1:C1:1139:A:C5	2.75	0.74
1:C1:1242:A:H4'	10:CI:78:THR:HA	1.69	0.74
1:C1:1291:G:H2'	1:C1:1292:G:C8	2.23	0.74
1:C1:1408:G:H1'	1:C1:1409:G:N2	2.01	0.74
1:C1:1515:A:C8	15:CN:58:LEU:CB	2.70	0.74
29:D1:11:A:O2'	29:D1:12:A:H5'	1.87	0.74
29:D1:155:G:C4	29:D1:156:G:H2'	2.22	0.74
29:D1:269:G:C2	29:D1:294:U:C5	2.76	0.74
29:D1:280:U:O2	29:D1:286:U:C2	2.41	0.74
29:D1:750:G:H5"	29:D1:751:A:OP2	1.88	0.74
29:D1:953:G:H3'	29:D1:953:G:C8	2.22	0.74
29:D1:1461:A:H2'	29:D1:1462:A:C8	2.22	0.74
29:D1:1686:U:H4'	29:D1:1687:U:OP2	1.82	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1724:U:O2'	29:D1:1725:C:O4'	2.05	0.74
29:D1:2272:G:H5'	29:D1:2272:G:N3	2.01	0.74
29:D1:2295:A:C5	29:D1:2296:A:N6	2.55	0.74
29:D1:2513:U:C1'	29:D1:2514:U:OP1	2.36	0.74
29:D1:2588:U:H5'	29:D1:2589:G:OP2	1.86	0.74
29:D1:2746:A:C6	29:D1:2747:A:C2	2.75	0.74
29:D1:2834:G:O2'	29:D1:2835:U:O5'	2.05	0.74
29:D1:2875:U:H2'	29:D1:2875:U:O2	1.87	0.74
29:D1:3225:C:H42	29:D1:3261:C:N4	1.84	0.74
29:D1:3327:G:C2	29:D1:3379:C:C2	2.75	0.74
29:D1:3328:G:H1	29:D1:3375:A:N6	1.85	0.74
38:DG:222:HIS:CB	38:DG:227:GLY:HA3	2.17	0.74
39:DH:99:PRO:C	39:DH:101:THR:N	2.42	0.74
43:DN:107:GLU:O	43:DN:110:ALA:N	2.20	0.74
1:A1:226:A:HO2'	1:A1:227:U:H6	1.33	0.74
1:A1:336:G:H2'	1:A1:338:C:H5	1.52	0.74
1:A1:791:A:H2'	1:A1:792:U:C6	2.20	0.74
1:A1:804:A:H2'	1:A1:805:U:H6	1.52	0.74
1:A1:846:G:O2'	1:A1:847:A:O4'	2.06	0.74
1:A1:871:G:N3	1:A1:872:G:C8	2.55	0.74
1:A1:1346:A:C8	1:A1:1347:U:C6	2.74	0.74
29:B1:102:C:C1'	29:B1:103:G:OP1	2.35	0.74
29:B1:197:G:C8	29:B1:395:A:H1'	2.21	0.74
29:B1:284:A:N6	29:B1:2785:A:C4'	2.50	0.74
29:B1:365:A:C2	29:B1:366:A:C4	2.75	0.74
29:B1:422:A:H1'	29:B1:423:A:H5'	1.68	0.74
29:B1:515:C:C2'	29:B1:516:A:O4'	2.26	0.74
29:B1:1481:A:N7	29:B1:1859:A:N7	2.36	0.74
29:B1:1581:C:H3'	29:B1:1582:C:H4'	1.70	0.74
29:B1:2255:A:C5	74:B1:3438:OHX:N5	2.55	0.74
29:B1:2293:C:H5	29:B1:2294:U:C5	2.05	0.74
29:B1:2912:G:C2	29:B1:2913:C:O2	2.41	0.74
29:B1:2912:G:O4'	29:B1:3131:U:H5'	1.87	0.74
29:B1:2970:C:H3'	29:B1:2971:A:C5'	2.17	0.74
29:B1:3104:U:C2'	29:B1:3105:U:H5'	2.15	0.74
30:B2:56:A:H5"	30:B2:56:A:H8	1.52	0.74
34:BC:154:TYR:N	34:BC:155:ALA:HB2	2.00	0.74
35:BD:76:ARG:HA	35:BD:88:GLY:HA2	1.69	0.74
41:BJ:177:ASP:HA	41:BJ:178:ARG:C	2.09	0.74
46:BQ:33:ALA:C	46:BQ:35:ALA:H	1.95	0.74
59:Bd:64:MET:O	59:Bd:66:TYR:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:114:C:C4	1:C1:248:U:C4	2.75	0.74
1:C1:708:C:H2'	1:C1:709:C:O4'	1.86	0.74
1:C1:806:A:H2'	1:C1:807:A:H5"	1.68	0.74
1:C1:973:A:O4'	29:D1:847:A:C2	2.40	0.74
1:C1:974:A:H5'	29:D1:848:A:C1'	2.17	0.74
1:C1:1456:C:H5"	1:C1:1457:C:H5"	1.69	0.74
1:C1:1458:G:C5'	1:C1:1459:C:C5	2.62	0.74
1:C1:1516:A:H3'	1:C1:1517:U:C5'	2.18	0.74
16:CO:54:ASP:HA	16:CO:59:GLY:CA	2.17	0.74
29:D1:501:A:N6	29:D1:502:U:C4	2.55	0.74
29:D1:660:A:C2	29:D1:1435:A:H2	2.04	0.74
29:D1:726:G:C4	29:D1:744:A:N6	2.54	0.74
29:D1:775:A:H2'	29:D1:776:U:O4'	1.88	0.74
29:D1:1517:G:H2'	29:D1:1518:U:C6	2.22	0.74
29:D1:1581:C:H3'	29:D1:1582:C:H4'	1.68	0.74
29:D1:1596:C:H2'	29:D1:1597:C:C6	2.23	0.74
29:D1:2281:A:O2'	29:D1:2282:U:H5"	1.87	0.74
29:D1:2703:A:C5'	29:D1:2704:A:H5'	2.16	0.74
29:D1:2955:U:H2'	29:D1:2956:A:H8	1.52	0.74
29:D1:3110:C:C2	29:D1:3111:U:C6	2.76	0.74
1:A1:273:G:C8	1:A1:273:G:OP1	2.40	0.74
1:A1:1200:G:H5'	1:A1:1201:G:C8	2.22	0.74
1:A1:1348:A:H2'	1:A1:1349:G:H5"	1.67	0.74
1:A1:1358:G:N3	1:A1:1358:G:H2'	2.01	0.74
1:A1:1466:G:C6	1:A1:1467:C:N4	2.55	0.74
1:A1:1575:G:OP1	1:A1:1575:G:H4'	1.87	0.74
29:B1:23:A:OP1	74:B1:3406:OHX:N5	2.20	0.74
29:B1:30:G:C6	29:B1:55:G:O6	2.40	0.74
29:B1:281:G:C6	29:B1:282:G:O6	2.41	0.74
29:B1:606:C:H3'	29:B1:607:A:H8	0.94	0.74
29:B1:1705:U:O2'	29:B1:1706:C:O5'	2.06	0.74
29:B1:2270:A:C2	29:B1:2271:A:C4	2.76	0.74
29:B1:2280:A:C5	29:B1:2282:U:C5	2.76	0.74
29:B1:2642:A:H5"	29:B1:2643:A:OP2	1.88	0.74
29:B1:2880:U:H2'	29:B1:2881:C:H5'	1.68	0.74
29:B1:2912:G:N1	29:B1:2913:C:O2	2.20	0.74
29:B1:3074:G:O2'	29:B1:3075:G:H5'	1.87	0.74
29:B1:3215:A:O5'	29:B1:3218:A:C5'	2.36	0.74
30:B2:3:U:H2'	30:B2:4:U:H6	1.52	0.74
30:B2:23:A:H2'	30:B2:24:A:C8	2.23	0.74
30:B2:38:U:O2'	30:B2:40:C:H5"	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:59:A:H4'	31:B3:60:U:H5"	1.69	0.74
70:Bq:13:UNK:O	70:Bq:14:UNK:O	2.06	0.74
1:C1:394:C:C2'	1:C1:395:U:H5'	2.17	0.74
1:C1:527:A:OP1	1:C1:528:U:H3'	1.86	0.74
1:C1:1123:C:C5	1:C1:1124:A:C5	2.75	0.74
1:C1:1235:C:H2'	1:C1:1236:A:H8	1.51	0.74
1:C1:1243:G:H2'	1:C1:1244:A:N7	2.03	0.74
1:C1:1347:U:H2'	1:C1:1349:G:N7	2.03	0.74
1:C1:1633:A:H1'	1:C1:1634:C:OP2	1.87	0.74
29:D1:572:A:N7	29:D1:573:C:C5	2.55	0.74
29:D1:674:G:H2'	29:D1:675:C:H6	1.50	0.74
29:D1:775:A:C2'	29:D1:776:U:C4'	2.64	0.74
29:D1:2369:G:H2'	29:D1:2370:G:C8	2.23	0.74
29:D1:2725:U:C4	29:D1:2727:A:N3	2.55	0.74
29:D1:3209:A:C5	29:D1:3210:A:C6	2.76	0.74
30:D2:105:C:H2'	30:D2:106:U:H5'	1.68	0.74
31:D3:40:A:C4	31:D3:41:A:C8	2.76	0.74
1:A1:809:A:C2	1:A1:810:G:N1	2.56	0.74
1:A1:992:A:N1	1:A1:1012:U:C2	2.55	0.74
1:A1:1132:A:N3	1:A1:1133:A:C8	2.56	0.74
1:A1:1358:G:H5'	1:A1:1359:C:OP2	1.87	0.74
29:B1:23:A:H3'	29:B1:24:G:H8	1.51	0.74
29:B1:141:C:H2'	29:B1:142:C:C6	2.22	0.74
29:B1:596:C:C3'	29:B1:597:G:H5"	2.18	0.74
29:B1:722:G:N1	29:B1:748:U:N3	2.36	0.74
29:B1:1075:A:H2	69:Bp:246:UNK:HA	1.53	0.74
29:B1:1152:G:O5'	29:B1:1152:G:C8	2.40	0.74
29:B1:1466:G:C6	29:B1:1511:U:C5	2.74	0.74
29:B1:1716:U:H2'	29:B1:1716:U:O2	1.87	0.74
29:B1:1795:U:O2'	29:B1:1796:G:P	2.45	0.74
29:B1:2279:A:H4'	29:B1:2280:A:H5'	1.68	0.74
29:B1:2904:U:H3'	29:B1:2904:U:O2	1.88	0.74
29:B1:2942:C:H3'	29:B1:2942:C:C6	2.21	0.74
30:B2:49:G:C8	30:B2:49:G:OP2	2.41	0.74
45:BP:192:LYS:C	45:BP:194:LEU:H	1.94	0.74
1:C1:10:G:C2	1:C1:11:A:C4	2.76	0.74
1:C1:141:U:O4	25:Cd:116:UNK:O	2.06	0.74
1:C1:142:G:C6	1:C1:266:A:N6	2.55	0.74
1:C1:251:A:H2'	1:C1:252:U:H5'	1.70	0.74
1:C1:750:U:H2'	1:C1:751:G:H5'	1.70	0.74
1:C1:776:G:C2	1:C1:785:U:C2	2.76	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:844:A:N7	74:C1:1917:OHX:N2	2.36	0.74
1:C1:1334:U:H5"	1:C1:1335:U:OP2	1.87	0.74
1:C1:1753:A:C6	1:C1:1754:A:C6	2.75	0.74
1:C1:1757:G:C5	1:C1:1758:U:C5	2.75	0.74
9:CH:28:VAL:O	9:CH:41:ARG:HA	1.87	0.74
29:D1:213:A:N6	29:D1:227:G:H2'	2.02	0.74
29:D1:593:C:H3'	29:D1:609:G:N2	2.02	0.74
29:D1:600:G:N2	29:D1:604:G:C6	2.55	0.74
29:D1:715:A:H2	29:D1:784:A:C4'	1.85	0.74
29:D1:953:G:H3'	29:D1:953:G:H8	1.51	0.74
29:D1:1063:G:OP1	29:D1:1063:G:O4'	2.04	0.74
29:D1:1448:U:O2'	29:D1:1449:A:H5'	1.87	0.74
29:D1:2561:A:OP1	29:D1:2561:A:H3'	1.88	0.74
29:D1:2775:U:O2'	29:D1:2776:C:P	2.45	0.74
29:D1:3328:G:H2'	29:D1:3328:G:N3	2.00	0.74
29:D1:3377:G:C2'	29:D1:3378:C:OP1	2.34	0.74
29:D1:3383:G:N3	29:D1:3383:G:H2'	2.03	0.74
30:D2:98:C:O2	30:D2:98:C:H2'	1.87	0.74
31:D3:64:U:H2'	31:D3:64:U:O2	1.87	0.74
40:DI:170:LYS:O	40:DI:171:ASP:C	2.30	0.74
46:DQ:47:TYR:O	46:DQ:49:GLU:N	2.21	0.74
46:DQ:128:ARG:H	46:DQ:139:TYR:H	1.35	0.74
1:A1:992:A:N1	1:A1:1012:U:O2	2.20	0.74
1:A1:1010:C:H5"	74:A1:1958:OHX:N6	2.01	0.74
29:B1:153:U:H4'	29:B1:158:G:N2	2.01	0.74
29:B1:284:A:H62	29:B1:2785:A:C4'	2.00	0.74
29:B1:516:A:H3'	29:B1:517:G:H8	1.49	0.74
29:B1:1157:G:H5'	29:B1:1157:G:H8	1.51	0.74
29:B1:1196:C:H5	29:B1:1197:A:C6	2.05	0.74
29:B1:1236:G:H4'	29:B1:1237:G:OP2	1.88	0.74
29:B1:2792:A:H8	29:B1:2792:A:O5'	1.70	0.74
29:B1:2970:C:H3'	29:B1:2971:A:H5"	1.69	0.74
29:B1:3201:C:P	29:B1:3201:C:C6	2.77	0.74
29:B1:3214:U:O3'	29:B1:3218:A:H5'	1.87	0.74
29:B1:3261:C:OP2	29:B1:3262:U:OP1	2.06	0.74
30:B2:46:A:N3	30:B2:46:A:O5'	2.21	0.74
39:BH:185:ARG:C	39:BH:187:GLY:H	1.95	0.74
62:Bg:42:CYS:N	74:Bg:101:OHX:N2	2.33	0.74
1:C1:104:A:H5'	1:C1:105:A:OP2	1.88	0.74
1:C1:1101:G:OP2	1:C1:1101:G:C8	2.40	0.74
1:C1:1632:C:O2'	1:C1:1633:A:H8	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:67:ASN:O	4:CC:71:LEU:CB	2.35	0.74
11:CJ:12:LYS:HA	11:CJ:17:THR:HA	1.69	0.74
29:D1:102:C:H1'	29:D1:103:G:OP1	1.88	0.74
29:D1:660:A:C2	29:D1:1435:A:C2	2.75	0.74
29:D1:1658:G:H2'	29:D1:1659:U:H6	1.53	0.74
29:D1:2255:A:P	74:D1:3415:OHX:N1	2.61	0.74
29:D1:2434:U:H4'	29:D1:2435:G:H5'	1.67	0.74
29:D1:3028:G:C2	29:D1:3029:A:N3	2.56	0.74
29:D1:3150:A:H5"	34:DC:134:SER:HA	1.70	0.74
30:D2:23:A:C8	30:D2:24:A:N7	2.55	0.74
30:D2:77:G:H1'	30:D2:78:U:OP2	1.87	0.74
40:DI:100:ASN:O	40:DI:114:VAL:HA	1.88	0.74
42:DK:84:LEU:HA	42:DK:89:TYR:CA	2.16	0.74
46:DQ:10:ASN:H	46:DQ:11:PRO:HA	0.66	0.74
1:A1:148:A:H5"	1:A1:149:C:OP2	1.88	0.74
1:A1:557:G:OP1	1:A1:557:G:H3'	1.88	0.74
1:A1:1153:G:H8	1:A1:1153:G:OP2	1.69	0.74
1:A1:1348:A:C8	1:A1:1348:A:H3'	2.22	0.74
29:B1:264:G:H3'	29:B1:265:A:H8	1.52	0.74
29:B1:282:G:P	29:B1:282:G:H3'	2.26	0.74
29:B1:353:G:O2'	29:B1:364:G:O6	2.04	0.74
29:B1:759:U:C4	29:B1:773:G:C5	2.75	0.74
29:B1:775:A:H2'	29:B1:776:U:O4'	1.87	0.74
29:B1:1042:U:OP2	29:B1:1042:U:C6	2.41	0.74
29:B1:1340:G:H2'	29:B1:1341:U:H6	1.53	0.74
29:B1:1440:G:H2'	29:B1:1441:G:C8	2.22	0.74
29:B1:1794:G:C2	33:BB:185:ALA:HB1	2.22	0.74
29:B1:2092:A:H3'	29:B1:2093:A:C5'	2.17	0.74
29:B1:2315:G:N2	29:B1:2316:G:N7	2.36	0.74
29:B1:3261:C:O5'	29:B1:3262:U:OP1	2.06	0.74
29:B1:3383:G:N3	29:B1:3383:G:H2'	2.02	0.74
31:B3:103:G:C6	31:B3:105:A:N6	2.56	0.74
35:BD:259:ASP:HA	35:BD:260:GLN:C	2.13	0.74
1:C1:331:A:H4'	1:C1:1676:U:H6	1.52	0.74
1:C1:365:G:H2'	1:C1:366:A:O5'	1.86	0.74
1:C1:439:U:H1'	1:C1:440:U:OP1	1.88	0.74
1:C1:1244:A:N3	1:C1:1244:A:C2'	2.50	0.74
1:C1:1392:U:H2'	1:C1:1393:C:C6	2.22	0.74
1:C1:1426:C:O2'	1:C1:1427:A:H4'	1.87	0.74
9:CH:100:ALA:O	9:CH:104:ALA:CB	2.36	0.74
29:D1:284:A:N6	29:D1:2785:A:H4'	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:504:A:C2	29:D1:587:U:O2	2.41	0.74
29:D1:886:C:C2'	29:D1:887:G:H5'	2.18	0.74
29:D1:955:U:H2'	29:D1:956:U:H6	1.49	0.74
29:D1:2137:U:H4'	29:D1:2137:U:OP1	1.86	0.74
29:D1:2381:G:O2'	29:D1:2382:G:H5'	1.88	0.74
29:D1:2420:C:C2'	29:D1:2421:U:H5'	2.17	0.74
29:D1:2727:A:C2	29:D1:2728:G:C6	2.75	0.74
31:D3:143:U:H2'	31:D3:144:G:C8	2.23	0.74
36:DE:100:ALA:C	36:DE:102:GLY:H	1.96	0.74
40:DI:161:LEU:O	40:DI:163:GLN:N	2.20	0.74
43:DN:22:LEU:CB	43:DN:65:LEU:HA	2.18	0.74
1:A1:153:G:H2'	1:A1:154:G:C8	2.23	0.74
1:A1:741:C:H2'	1:A1:741:C:O2	1.86	0.74
1:A1:818:C:H2'	1:A1:819:G:N7	2.03	0.74
1:A1:1345:A:H2'	1:A1:1346:A:N7	2.03	0.74
1:A1:1609:U:H2'	1:A1:1610:G:O4'	1.86	0.74
18:AQ:92:ILE:HA	18:AQ:98:GLN:O	1.88	0.74
29:B1:221:A:C2	29:B1:224:C:C5	2.74	0.74
29:B1:498:A:H2'	29:B1:499:G:H8	1.53	0.74
29:B1:588:G:C6	29:B1:612:U:H5	2.05	0.74
29:B1:609:G:H4'	29:B1:610:G:OP1	1.88	0.74
29:B1:610:G:N3	29:B1:610:G:C3'	2.51	0.74
29:B1:715:A:H3'	54:BY:115:LYS:CA	2.18	0.74
29:B1:995:U:N3	29:B1:2637:A:C8	2.56	0.74
29:B1:1037:C:HO2'	29:B1:1038:C:H6	1.36	0.74
29:B1:1390:A:C5	29:B1:1418:A:C5	2.76	0.74
29:B1:1453:A:C1'	29:B1:1850:A:C2	2.71	0.74
29:B1:1530:U:O2	29:B1:1530:U:H2'	1.85	0.74
29:B1:1560:G:O6	29:B1:1579:C:N3	2.21	0.74
29:B1:2630:C:O3'	49:BT:6:GLY:HA3	1.88	0.74
29:B1:2750:U:O2'	29:B1:2751:G:H5'	1.88	0.74
31:B3:65:A:C2	31:B3:96:A:C5	2.76	0.74
31:B3:75:G:OP1	31:B3:90:U:C5'	2.35	0.74
47:BR:128:ALA:HA	47:BR:131:ALA:HB3	1.70	0.74
54:BY:110:GLY:O	54:BY:128:ARG:CB	2.36	0.74
1:C1:457:G:C2'	1:C1:458:G:H5'	2.18	0.74
1:C1:518:A:H61	1:C1:535:A:C1'	2.00	0.74
1:C1:557:G:OP1	1:C1:557:G:H3'	1.88	0.74
1:C1:1240:U:C3'	1:C1:1241:G:H5'	2.18	0.74
29:D1:134:U:N3	58:Dc:67:ARG:HA	2.02	0.74
29:D1:537:A:N6	29:D1:556:U:O2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:859:G:N2	29:D1:861:C:H1'	2.03	0.74
29:D1:1232:C:H4'	73:DM:35:SER:CA	2.17	0.74
29:D1:1913:A:C5	29:D1:2120:A:N7	2.55	0.74
29:D1:2145:A:H1'	29:D1:2958:A:H4'	1.68	0.74
29:D1:2599:U:H2'	29:D1:2600:C:C6	2.23	0.74
29:D1:2680:A:H3'	29:D1:2681:U:C5'	2.18	0.74
29:D1:3176:G:H2'	29:D1:3177:G:H5"	1.67	0.74
29:D1:3297:U:O2	29:D1:3298:C:C6	2.41	0.74
29:D1:3331:U:C2'	29:D1:3332:U:H5'	2.17	0.74
1:A1:162:A:C3'	1:A1:163:G:H8	2.00	0.74
1:A1:385:A:OP2	1:A1:385:A:H8	1.70	0.74
1:A1:1243:G:C6	1:A1:1244:A:N6	2.55	0.74
1:A1:1395:G:H2'	1:A1:1396:U:H5'	1.70	0.74
1:A1:1595:U:C6	1:A1:1596:C:N3	2.55	0.74
29:B1:269:G:C2	29:B1:294:U:C5	2.76	0.74
29:B1:384:A:H3'	29:B1:385:A:C8	2.16	0.74
29:B1:560:G:N2	29:B1:561:C:N3	2.36	0.74
29:B1:1294:A:H5"	29:B1:1294:A:H8	1.52	0.74
29:B1:1627:U:H5'	29:B1:1628:C:OP2	1.88	0.74
29:B1:2137:U:H2'	29:B1:2137:U:O2	1.88	0.74
29:B1:2650:U:OP2	29:B1:2650:U:H6	1.69	0.74
29:B1:2729:U:H4'	29:B1:2730:G:OP2	1.87	0.74
29:B1:3101:G:H2'	29:B1:3102:G:C5'	2.18	0.74
29:B1:3141:A:H5'	29:B1:3143:C:O2	1.87	0.74
29:B1:3219:G:C8	29:B1:3257:C:OP1	2.39	0.74
30:B2:1:G:H2'	30:B2:1:G:N3	2.01	0.74
46:BQ:10:ASN:N	46:BQ:11:PRO:CA	2.30	0.74
51:BV:41:LYS:C	51:BV:43:ARG:H	1.95	0.74
1:C1:257:A:H2'	1:C1:258:C:C5'	2.16	0.74
1:C1:380:U:H2'	1:C1:380:U:O2	1.87	0.74
1:C1:1089:U:C2'	1:C1:1090:C:H5'	2.17	0.74
10:CI:59:LYS:O	10:CI:63:ALA:HB3	1.87	0.74
29:D1:284:A:C2	29:D1:306:A:C8	2.76	0.74
29:D1:293:C:N3	29:D1:294:U:O2	2.21	0.74
29:D1:331:G:O2'	29:D1:332:C:OP1	2.06	0.74
29:D1:533:A:H2'	29:D1:534:U:C4	2.23	0.74
29:D1:1042:U:H2'	29:D1:1043:C:H6	1.51	0.74
29:D1:1658:G:H2'	29:D1:1659:U:C6	2.23	0.74
29:D1:2633:U:O4	49:DT:3:LYS:N	2.20	0.74
29:D1:2942:C:H3'	29:D1:2942:C:C6	2.21	0.74
29:D1:2998:U:H2'	29:D1:2999:U:H6	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3144:G:O6	74:D1:3431:OHX:N2	2.21	0.74
29:D1:3215:A:O5'	29:D1:3218:A:C5'	2.34	0.74
29:D1:3316:A:OP2	29:D1:3318:G:H4'	1.88	0.74
29:D1:3390:G:C6	29:D1:3391:A:C5	2.76	0.74
29:D1:3392:U:N3	29:D1:3393:U:O4	2.20	0.74
30:D2:14:U:C2'	30:D2:15:C:O5'	2.36	0.74
42:DK:85:LYS:O	42:DK:86:VAL:C	2.30	0.74
44:DO:85:THR:HA	44:DO:87:GLN:N	2.03	0.74
54:DY:69:TRP:N	54:DY:110:GLY:HA2	2.02	0.74
1:A1:1237:G:H2'	1:A1:1238:A:H8	1.52	0.73
8:AG:127:ARG:C	8:AG:129:TYR:H	1.96	0.73
15:AN:12:GLN:C	15:AN:14:GLN:N	2.39	0.73
17:AP:131:SER:C	17:AP:133:LEU:HA	2.12	0.73
29:B1:10:C:H2'	29:B1:10:C:O2	1.87	0.73
29:B1:16:A:O2'	29:B1:17:G:H5'	1.87	0.73
29:B1:306:A:H61	29:B1:2783:U:H3	1.33	0.73
29:B1:548:G:C4	29:B1:549:U:H1'	2.23	0.73
29:B1:699:A:H2'	29:B1:700:C:O4'	1.88	0.73
29:B1:760:G:H2'	29:B1:760:G:N3	2.03	0.73
29:B1:912:G:H2'	29:B1:914:A:N7	2.03	0.73
29:B1:1435:A:H5'	29:B1:1436:U:C5'	2.14	0.73
29:B1:1445:U:C5	29:B1:1446:A:N7	2.56	0.73
29:B1:1449:A:H3'	29:B1:1450:G:H8	1.53	0.73
29:B1:1627:U:H5	29:B1:1628:C:C4	2.05	0.73
29:B1:1827:C:H2'	29:B1:1828:A:C8	2.23	0.73
29:B1:2266:U:N3	29:B1:2267:C:N4	2.36	0.73
29:B1:2296:A:O2'	29:B1:2297:U:H5'	1.87	0.73
29:B1:2667:A:N6	29:B1:2690:G:C6	2.55	0.73
29:B1:2872:A:C4'	29:B1:2873:U:OP1	2.35	0.73
29:B1:3209:A:N1	29:B1:3210:A:N1	2.36	0.73
29:B1:3290:G:H2'	29:B1:3291:G:C8	2.23	0.73
29:B1:3298:C:N4	29:B1:3299:A:N6	2.36	0.73
29:B1:3360:C:H2'	29:B1:3360:C:O2	1.86	0.73
29:B1:3376:A:H5'	29:B1:3377:G:H5"	1.69	0.73
30:B2:25:G:N2	30:B2:26:C:C2	2.56	0.73
34:BC:93:VAL:CB	34:BC:156:SER:H	2.01	0.73
1:C1:210:A:H2'	1:C1:211:U:H6	1.53	0.73
1:C1:1152:A:O2'	1:C1:1153:G:H5'	1.88	0.73
1:C1:1559:A:H2'	1:C1:1559:A:N3	2.03	0.73
1:C1:1595:U:H6	1:C1:1596:C:N3	1.85	0.73
18:CQ:92:ILE:HA	18:CQ:98:GLN:O	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:308:A:H2	29:D1:2782:U:C2	2.06	0.73
29:D1:411:U:O2'	29:D1:412:G:H5'	1.87	0.73
29:D1:790:U:C2	29:D1:791:A:C8	2.75	0.73
29:D1:872:U:O2'	29:D1:873:C:H5'	1.87	0.73
29:D1:963:G:H8	29:D1:963:G:C5'	2.01	0.73
29:D1:1108:U:H2'	29:D1:1109:U:C6	2.23	0.73
29:D1:1294:A:O2'	29:D1:1295:G:P	2.45	0.73
29:D1:1435:A:C8	29:D1:1437:C:C6	2.76	0.73
29:D1:1504:A:C5	29:D1:1505:C:C5	2.76	0.73
29:D1:2173:U:H2'	29:D1:2174:G:H8	1.52	0.73
29:D1:2839:G:C5	29:D1:2850:G:N2	2.56	0.73
29:D1:3303:G:O2'	29:D1:3304:U:H5'	1.88	0.73
29:D1:3310:A:C6	29:D1:3311:C:C6	2.76	0.73
31:D3:65:A:C2	31:D3:96:A:C5	2.76	0.73
1:A1:26:A:OP1	1:A1:27:U:OP2	2.06	0.73
1:A1:389:G:H2'	1:A1:390:G:H8	1.53	0.73
1:A1:1000:C:H5	1:A1:1003:A:OP2	1.71	0.73
1:A1:1146:G:H8	1:A1:1635:A:C2	2.06	0.73
1:A1:1186:U:H2'	1:A1:1187:U:O4'	1.88	0.73
1:A1:1378:U:C5'	1:A1:1379:C:H5"	2.18	0.73
1:A1:1420:C:C5	1:A1:1421:A:C8	2.71	0.73
1:A1:1627:U:O2'	1:A1:1628:U:C6	2.38	0.73
15:AN:66:SER:HA	15:AN:81:THR:HA	1.69	0.73
29:B1:618:C:O2'	29:B1:619:A:H5'	1.88	0.73
29:B1:622:A:H2'	29:B1:623:U:C6	2.23	0.73
29:B1:1328:C:H2'	29:B1:1329:U:C5	2.23	0.73
29:B1:1896:A:C2	29:B1:3093:C:C6	2.76	0.73
29:B1:1939:G:O4'	29:B1:2114:C:H1'	1.89	0.73
29:B1:2260:U:H2'	29:B1:2261:G:N7	2.02	0.73
29:B1:2287:C:C2	29:B1:2298:U:O2	2.40	0.73
29:B1:2289:U:O2'	29:B1:2290:C:H5'	1.88	0.73
29:B1:2309:A:H2	29:B1:2961:G:H2'	1.53	0.73
29:B1:2678:A:O4'	29:B1:2679:A:H2	1.72	0.73
29:B1:3308:C:C5	29:B1:3309:G:N3	2.56	0.73
36:BE:18:THR:CB	36:BE:19:PRO:HA	2.17	0.73
36:BE:42:ALA:CB	49:BT:69:LYS:O	2.36	0.73
1:C1:89:G:H2'	1:C1:90:C:H6	1.52	0.73
1:C1:183:U:O2'	1:C1:184:C:H5"	1.88	0.73
1:C1:551:G:H5"	1:C1:552:G:OP2	1.88	0.73
1:C1:734:A:C6	1:C1:735:C:C2	2.77	0.73
1:C1:778:G:N2	1:C1:783:G:C5	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:992:A:H2'	1:C1:993:A:C5'	2.15	0.73
1:C1:1003:A:N7	1:C1:1005:A:N1	2.36	0.73
1:C1:1378:U:C5'	1:C1:1379:C:H5"	2.18	0.73
29:D1:88:A:H2'	29:D1:89:A:O4'	1.88	0.73
29:D1:308:A:H2	29:D1:2782:U:N3	1.86	0.73
29:D1:514:G:O2'	37:DF:145:LEU:O	2.06	0.73
29:D1:727:G:H22	29:D1:741:U:H3	1.35	0.73
29:D1:1180:A:C5	29:D1:1182:A:C8	2.75	0.73
29:D1:1192:C:OP2	29:D1:1192:C:N1	2.20	0.73
29:D1:1864:A:H5"	29:D1:1865:A:OP2	1.88	0.73
29:D1:2151:C:H6	29:D1:2151:C:C5'	1.96	0.73
29:D1:2279:A:N7	29:D1:2288:G:C6	2.57	0.73
29:D1:2376:G:O2'	29:D1:2377:G:O5'	2.06	0.73
29:D1:2594:C:H2'	29:D1:2595:A:C8	2.23	0.73
29:D1:2594:C:H6	29:D1:2594:C:OP2	1.71	0.73
29:D1:2928:C:C2'	29:D1:2929:C:H5'	2.18	0.73
29:D1:3314:A:C2'	34:DC:119:TYR:N	2.49	0.73
31:D3:81:U:H3'	31:D3:82:U:C5'	2.17	0.73
35:DD:16:THR:CB	35:DD:17:ALA:HA	2.18	0.73
47:DR:45:ASN:O	47:DR:48:VAL:N	2.21	0.73
63:Dh:46:UNK:O	63:Dh:50:UNK:N	2.21	0.73
1:A1:272:U:H4'	1:A1:273:G:OP2	1.86	0.73
1:A1:1008:G:C2	1:A1:1009:U:H1'	2.23	0.73
1:A1:1022:C:C4'	1:A1:1124:A:H61	2.00	0.73
1:A1:1199:G:C5	1:A1:1200:G:H1'	2.23	0.73
1:A1:1348:A:C2'	1:A1:1349:G:H5"	2.18	0.73
1:A1:1399:C:H2'	1:A1:1400:A:C8	2.23	0.73
8:AG:125:LEU:O	8:AG:126:ALA:C	2.31	0.73
29:B1:122:A:H2'	29:B1:123:A:C8	2.23	0.73
29:B1:213:A:N6	29:B1:227:G:H2'	2.04	0.73
29:B1:392:G:C2	29:B1:393:U:C6	2.77	0.73
29:B1:537:A:N7	29:B1:556:U:O4	2.21	0.73
29:B1:2931:C:C4	29:B1:2932:U:H5	2.06	0.73
29:B1:3055:U:O2'	29:B1:3056:U:H3'	1.88	0.73
30:B2:22:A:N1	36:BE:277:LEU:CB	2.50	0.73
30:B2:121:U:H5"	36:BE:263:GLU:CB	2.18	0.73
31:B3:138:A:C2	31:B3:139:U:C2	2.75	0.73
31:B3:143:U:H2'	31:B3:144:G:C8	2.22	0.73
34:BC:350:ALA:O	34:BC:351:LEU:CB	2.36	0.73
38:BG:69:ALA:HB1	38:BG:75:TYR:N	2.03	0.73
43:BN:33:ALA:HB1	43:BN:48:GLY:N	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:341:A:C4	1:C1:342:C:C5	2.76	0.73
1:C1:617:U:O4'	1:C1:1031:U:O2	2.05	0.73
1:C1:1084:A:O2'	1:C1:1085:G:H5'	1.87	0.73
1:C1:1091:A:H4'	1:C1:1092:A:O5'	1.86	0.73
1:C1:1332:C:O2'	1:C1:1333:C:H6	1.70	0.73
1:C1:1763:A:OP2	1:C1:1768:G:OP2	2.05	0.73
16:CO:85:ASP:O	16:CO:87:GLU:N	2.21	0.73
21:CT:181:TRP:HA	21:CT:189:GLU:H	1.52	0.73
29:D1:23:A:C2	29:D1:24:G:C4	2.76	0.73
29:D1:213:A:C2	29:D1:214:G:H1'	2.22	0.73
29:D1:285:A:C2	29:D1:305:U:O5'	2.41	0.73
29:D1:698:U:C1'	29:D1:699:A:OP1	2.36	0.73
29:D1:1196:C:C5	29:D1:1197:A:C5	2.76	0.73
29:D1:1259:A:H5"	29:D1:1260:A:OP2	1.88	0.73
29:D1:1354:G:H8	29:D1:1355:A:C6	2.06	0.73
29:D1:1543:G:C2	29:D1:1544:G:C8	2.76	0.73
29:D1:1604:G:H8	29:D1:1605:A:H5"	1.53	0.73
29:D1:2640:A:C8	29:D1:2641:U:H5	2.07	0.73
29:D1:2667:A:H3'	29:D1:2667:A:C4	2.23	0.73
46:DQ:10:ASN:N	46:DQ:11:PRO:CA	2.28	0.73
1:A1:440:U:H3'	1:A1:441:A:H5'	1.68	0.73
1:A1:740:A:H2'	1:A1:741:C:H5"	1.70	0.73
1:A1:811:A:O2'	1:A1:858:G:H8	1.70	0.73
1:A1:817:A:H5"	1:A1:818:C:OP2	1.89	0.73
1:A1:1028:C:H1'	1:A1:1029:U:H5"	1.70	0.73
1:A1:1492:A:H4'	1:A1:1493:A:OP1	1.86	0.73
9:AH:64:ALA:HA	9:AH:68:ALA:H	1.51	0.73
29:B1:383:G:H3'	29:B1:384:A:C5'	2.15	0.73
29:B1:532:A:H3'	29:B1:533:A:C8	2.24	0.73
29:B1:826:G:C4	29:B1:827:A:C8	2.76	0.73
29:B1:887:G:H2'	29:B1:888:A:C8	2.23	0.73
29:B1:1194:G:N3	29:B1:1309:U:O2	2.21	0.73
29:B1:1247:U:H3	29:B1:1274:A:H61	1.34	0.73
29:B1:1303:A:C2	29:B1:2887:A:C6	2.75	0.73
29:B1:2556:C:N4	29:B1:2557:A:C2	2.56	0.73
29:B1:2594:C:H6	29:B1:2594:C:OP2	1.71	0.73
29:B1:2673:A:H61	29:B1:2681:U:H3	1.34	0.73
29:B1:2854:U:O2'	29:B1:2855:U:H5'	1.89	0.73
29:B1:3028:G:O2'	29:B1:3029:A:O4'	2.05	0.73
29:B1:3097:C:H2'	29:B1:3098:G:H8	1.53	0.73
29:B1:3107:U:O2'	29:B1:3108:G:H5'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3316:A:OP2	29:B1:3318:G:H4'	1.89	0.73
30:B2:11:A:H1'	30:B2:67:G:N2	2.03	0.73
30:B2:14:U:C2'	30:B2:15:C:O5'	2.35	0.73
30:B2:42:A:C4	30:B2:45:A:N6	2.55	0.73
31:B3:74:U:H1'	31:B3:89:A:C8	2.24	0.73
59:Bd:59:THR:C	59:Bd:61:THR:H	1.94	0.73
1:C1:250:C:OP2	1:C1:250:C:H3'	1.88	0.73
1:C1:1201:G:N3	1:C1:1201:G:C3'	2.45	0.73
1:C1:1764:C:H6	1:C1:1764:C:C5'	1.99	0.73
7:CF:129:ARG:O	7:CF:131:ILE:N	2.22	0.73
28:Ch:14:UNK:O	28:Ch:18:UNK:CB	2.36	0.73
29:D1:70:A:C2	29:D1:71:A:O2'	2.41	0.73
29:D1:71:A:C8	29:D1:72:C:C5	2.77	0.73
29:D1:312:C:H2'	29:D1:313:A:H8	1.52	0.73
29:D1:338:A:H4'	29:D1:338:A:OP2	1.88	0.73
29:D1:420:G:N3	29:D1:2384:A:H2'	2.04	0.73
29:D1:580:C:N3	29:D1:581:U:C5	2.56	0.73
29:D1:665:A:C2'	29:D1:666:A:H5'	2.18	0.73
29:D1:693:A:H2'	29:D1:694:C:C6	2.23	0.73
29:D1:710:A:O2'	29:D1:711:A:H5'	1.88	0.73
29:D1:716:A:H2'	29:D1:717:C:C3'	2.17	0.73
29:D1:1223:A:C2	29:D1:1285:G:C8	2.77	0.73
29:D1:1258:U:H2'	29:D1:1259:A:O5'	1.88	0.73
29:D1:1691:U:H2'	29:D1:1692:U:C5	2.24	0.73
29:D1:2148:U:C4'	29:D1:2149:A:OP1	2.33	0.73
29:D1:2652:U:H2'	29:D1:2653:C:H6	1.50	0.73
29:D1:2688:U:O3'	29:D1:2689:A:C8	2.42	0.73
29:D1:2714:G:N2	29:D1:2751:G:C5	2.56	0.73
29:D1:3326:G:C2	29:D1:3327:G:C8	2.76	0.73
30:D2:10:C:O3'	30:D2:13:A:C8	2.41	0.73
31:D3:66:A:H2'	31:D3:67:U:C6	2.24	0.73
35:DD:119:ARG:C	35:DD:121:ALA:N	2.44	0.73
40:DI:73:SER:O	40:DI:74:LEU:C	2.31	0.73
1:A1:605:A:N7	1:A1:606:A:C6	2.56	0.73
1:A1:644:C:N4	1:A1:691:C:H42	1.86	0.73
1:A1:1480:G:C5'	1:A1:1480:G:C8	2.70	0.73
1:A1:1599:C:O2'	1:A1:1600:A:N3	2.21	0.73
1:A1:1651:A:N3	1:A1:1652:C:C6	2.57	0.73
29:B1:161:G:H2'	29:B1:162:G:H8	1.53	0.73
29:B1:385:A:C2	29:B1:386:A:C5	2.76	0.73
29:B1:652:G:OP1	29:B1:1436:U:O2'	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:736:A:C8	29:B1:737:G:N7	2.56	0.73
29:B1:952:A:H1'	29:B1:1114:U:O2'	1.88	0.73
29:B1:1042:U:OP2	29:B1:1042:U:H6	1.71	0.73
29:B1:1210:U:H2'	29:B1:1211:U:H5'	1.70	0.73
29:B1:1282:G:C2'	29:B1:1283:C:H5'	2.18	0.73
29:B1:2802:A:H8	61:Bf:57:VAL:H	1.32	0.73
29:B1:2875:U:H2'	29:B1:2875:U:O2	1.88	0.73
29:B1:2980:U:N3	29:B1:2981:U:H5	1.87	0.73
29:B1:3057:U:H5'	29:B1:3086:A:H61	1.54	0.73
29:B1:3325:G:C2	29:B1:3326:G:C4	2.76	0.73
29:B1:3353:G:N3	29:B1:3353:G:H2'	2.02	0.73
29:B1:3381:U:H2'	29:B1:3383:G:C4	2.24	0.73
29:B1:3390:G:C2	29:B1:3391:A:C4	2.77	0.73
31:B3:29:U:H2'	31:B3:30:C:H6	1.53	0.73
31:B3:37:A:N6	31:B3:104:A:H2'	2.03	0.73
31:B3:67:U:H2'	31:B3:68:G:C8	2.24	0.73
31:B3:128:U:C5'	31:B3:129:C:H5	2.01	0.73
34:BC:46:PHE:O	34:BC:47:LEU:CB	2.34	0.73
43:BN:23:ILE:O	43:BN:32:LEU:HA	1.86	0.73
70:Bq:14:UNK:O	70:Bq:15:UNK:C	2.36	0.73
1:C1:542:A:O2'	1:C1:543:C:H3'	1.88	0.73
1:C1:1541:G:C6	1:C1:1542:G:C6	2.77	0.73
1:C1:1722:A:H8	1:C1:1723:U:C6	2.06	0.73
10:CI:19:GLY:H	13:CL:98:TYR:HA	1.53	0.73
29:D1:11:A:C1'	29:D1:1557:A:N6	2.52	0.73
29:D1:209:A:O2'	29:D1:210:U:O2	2.07	0.73
29:D1:331:G:N2	29:D1:332:C:C2	2.57	0.73
29:D1:427:C:N4	29:D1:428:A:N6	2.35	0.73
29:D1:514:G:H3'	29:D1:515:C:C6	2.22	0.73
29:D1:636:C:O2	29:D1:636:C:O2'	2.07	0.73
29:D1:985:U:H2'	29:D1:986:U:C6	2.23	0.73
29:D1:986:U:C2	29:D1:987:U:C6	2.76	0.73
29:D1:1263:A:N6	72:DL:135:THR:HA	2.04	0.73
29:D1:1440:G:H2'	29:D1:1441:G:C8	2.24	0.73
29:D1:1539:A:N6	29:D1:1583:A:C8	2.57	0.73
29:D1:1570:U:H4'	31:D3:127:U:O4	1.87	0.73
29:D1:2640:A:C5	29:D1:2641:U:C5	2.75	0.73
29:D1:2676:A:H2	29:D1:2680:A:N1	1.86	0.73
29:D1:2761:G:H1	29:D1:2795:U:H3'	1.54	0.73
29:D1:3316:A:N6	29:D1:3388:C:H42	1.85	0.73
29:D1:3333:G:N2	29:D1:3370:A:H4'	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3378:C:O3'	34:DC:313:HIS:HA	1.89	0.73
29:D1:3381:U:H2'	29:D1:3383:G:C4	2.23	0.73
30:D2:24:A:H2'	30:D2:25:G:H8	1.54	0.73
44:DO:159:ARG:O	44:DO:161:ALA:N	2.19	0.73
45:DP:35:VAL:O	45:DP:104:VAL:HA	1.87	0.73
59:Dd:4:GLY:O	59:Dd:5:THR:C	2.32	0.73
1:A1:25:C:H6	1:A1:25:C:H3'	1.53	0.73
1:A1:58:U:H2'	1:A1:58:U:O2	1.88	0.73
1:A1:331:A:C2	1:A1:332:U:C2	2.77	0.73
1:A1:1221:A:O2'	1:A1:1222:C:H5'	1.89	0.73
1:A1:1764:C:H6	1:A1:1764:C:C5'	2.01	0.73
29:B1:11:A:N1	31:B3:148:G:C6	2.56	0.73
29:B1:425:G:C8	29:B1:425:G:C5'	2.71	0.73
29:B1:522:A:N7	29:B1:523:A:C8	2.57	0.73
29:B1:610:G:H5"	29:B1:611:A:OP2	1.88	0.73
29:B1:959:C:H41	29:B1:2801:A:C5'	2.02	0.73
29:B1:963:G:H8	29:B1:963:G:C5'	2.00	0.73
29:B1:1103:A:O2'	29:B1:1104:G:P	2.46	0.73
29:B1:1913:A:N3	29:B1:2120:A:H8	1.87	0.73
29:B1:2407:C:C2	29:B1:2408:U:C5	2.76	0.73
29:B1:2776:C:H5'	29:B1:2777:G:H5"	1.71	0.73
29:B1:2980:U:N3	29:B1:2981:U:C5	2.56	0.73
30:B2:64:A:H1'	30:B2:65:G:C5'	2.19	0.73
31:B3:17:A:C5	31:B3:18:U:C5	2.77	0.73
34:BC:4:ARG:C	34:BC:6:TYR:N	2.44	0.73
34:BC:345:ASN:O	34:BC:347:SER:N	2.21	0.73
42:BK:133:ARG:N	42:BK:155:THR:H	1.86	0.73
57:Bb:73:THR:HA	57:Bb:93:ALA:O	1.89	0.73
1:C1:65:A:C4'	1:C1:66:U:OP1	2.33	0.73
1:C1:153:G:H2'	1:C1:154:G:C8	2.24	0.73
1:C1:457:G:O2'	1:C1:458:G:H5'	1.88	0.73
1:C1:1112:G:N2	1:C1:1134:C:C4	2.56	0.73
1:C1:1346:A:C8	1:C1:1347:U:C6	2.76	0.73
1:C1:1429:G:H2'	1:C1:1430:U:C6	2.24	0.73
1:C1:1516:A:H8	15:CN:16:GLN:CB	2.02	0.73
20:CS:37:ASN:CB	20:CS:38:ILE:HA	2.17	0.73
29:D1:11:A:C2	31:D3:148:G:C6	2.76	0.73
29:D1:173:G:O6	29:D1:245:U:C2	2.42	0.73
29:D1:517:G:H2'	29:D1:518:G:N9	2.03	0.73
29:D1:699:A:H2'	29:D1:700:C:O4'	1.89	0.73
29:D1:1264:G:H4'	29:D1:1265:U:OP1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1288:U:C2'	29:D1:1289:G:H5"	2.19	0.73
29:D1:1819:U:C6	29:D1:1820:U:H5	2.06	0.73
29:D1:1827:C:H2'	29:D1:1828:A:C8	2.24	0.73
29:D1:2573:G:H2'	29:D1:2574:G:O4'	1.87	0.73
29:D1:2701:U:O2'	29:D1:2705:A:C8	2.40	0.73
29:D1:2825:C:H5'	29:D1:2826:U:OP2	1.87	0.73
29:D1:3141:A:O4'	29:D1:3143:C:H2'	1.88	0.73
29:D1:3179:U:O2'	29:D1:3180:A:P	2.45	0.73
29:D1:3209:A:H2'	29:D1:3210:A:C8	2.23	0.73
29:D1:3228:C:C2	29:D1:3229:G:N7	2.57	0.73
31:D3:29:U:H2'	31:D3:30:C:H6	1.53	0.73
37:DF:40:LEU:HA	37:DF:85:ILE:CA	2.19	0.73
38:DG:74:SER:CB	38:DG:75:TYR:HA	2.18	0.73
45:DP:18:ARG:O	45:DP:20:ALA:N	2.22	0.73
1:A1:217:A:H2'	1:A1:739:G:OP1	1.88	0.73
1:A1:257:A:H2'	1:A1:258:C:C5'	2.13	0.73
1:A1:738:G:H2'	1:A1:739:G:C8	2.24	0.73
1:A1:1017:U:H2'	1:A1:1018:U:C6	2.24	0.73
1:A1:1025:A:H2'	1:A1:1027:A:H5"	1.70	0.73
1:A1:1099:U:O2'	1:A1:1100:G:N9	2.21	0.73
1:A1:1148:C:N3	1:A1:1149:G:O6	2.21	0.73
1:A1:1348:A:H5"	15:AN:11:GLU:HA	1.71	0.73
1:A1:1600:A:O2'	1:A1:1602:C:C5	2.30	0.73
29:B1:63:A:H2'	29:B1:64:G:C8	2.23	0.73
29:B1:573:C:C2	29:B1:574:U:C5	2.77	0.73
29:B1:591:G:N1	29:B1:592:A:C4	2.56	0.73
29:B1:649:A:H2'	29:B1:650:C:C6	2.24	0.73
29:B1:988:U:H2'	29:B1:989:A:C8	2.24	0.73
29:B1:1313:G:N3	29:B1:1314:C:C6	2.57	0.73
29:B1:1437:C:O2	29:B1:1437:C:H2'	1.89	0.73
29:B1:1857:C:O2'	29:B1:1858:A:C8	2.42	0.73
29:B1:2572:C:H3'	74:B1:3558:OHX:N5	2.03	0.73
29:B1:2806:U:C2'	29:B1:2807:U:H5'	2.18	0.73
29:B1:3228:C:C2	29:B1:3229:G:N7	2.55	0.73
29:B1:3260:G:H2'	29:B1:3260:G:N3	2.02	0.73
30:B2:14:U:C6	30:B2:14:U:P	2.82	0.73
33:BB:229:ALA:O	33:BB:231:SER:N	2.21	0.73
1:C1:25:C:H3'	1:C1:25:C:H6	1.53	0.73
1:C1:389:G:H2'	1:C1:390:G:C8	2.23	0.73
1:C1:530:C:H2'	1:C1:531:C:C6	2.24	0.73
1:C1:750:U:O2'	1:C1:751:G:H5'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:871:G:O2'	1:C1:872:G:H5"	1.88	0.73
1:C1:1007:C:H5"	1:C1:1008:G:OP2	1.88	0.73
1:C1:1388:A:C6	1:C1:1411:A:C5	2.77	0.73
1:C1:1489:U:H5	1:C1:1513:G:N1	1.87	0.73
1:C1:1609:U:H2'	1:C1:1610:G:O4'	1.87	0.73
1:C1:1619:C:C2	1:C1:1620:C:H5	2.07	0.73
9:CH:64:ALA:HA	9:CH:68:ALA:N	2.03	0.73
29:D1:199:A:C6	29:D1:219:A:N6	2.56	0.73
29:D1:382:U:H2'	29:D1:383:G:C4'	2.18	0.73
29:D1:595:G:N2	29:D1:610:G:OP1	2.20	0.73
29:D1:659:G:H2'	29:D1:660:A:N7	2.03	0.73
29:D1:851:C:H2'	29:D1:852:U:H6	1.54	0.73
29:D1:1186:G:C2'	29:D1:1187:C:C5'	2.65	0.73
29:D1:1194:G:N3	29:D1:1309:U:O2	2.21	0.73
29:D1:1507:G:H8	29:D1:1507:G:OP2	1.72	0.73
29:D1:2272:G:H4'	29:D1:2273:G:OP1	1.89	0.73
29:D1:3058:U:HO2'	29:D1:3059:G:P	2.12	0.73
29:D1:3176:G:C2'	29:D1:3177:G:H5"	2.18	0.73
45:DP:137:THR:O	45:DP:139:GLY:N	2.21	0.73
1:A1:221:A:C5	1:A1:833:U:H5	2.06	0.73
1:A1:569:C:O4'	1:A1:583:C:H4'	1.88	0.73
1:A1:1109:G:C2	1:A1:1110:G:N7	2.57	0.73
1:A1:1340:U:O3'	1:A1:1341:A:H2'	1.88	0.73
1:A1:1409:G:H5'	1:A1:1410:A:OP2	1.88	0.73
1:A1:1719:A:H2'	1:A1:1720:G:N7	2.04	0.73
4:AC:135:GLU:HA	4:AC:152:PHE:O	1.89	0.73
6:AE:62:ARG:N	6:AE:63:ASP:CB	2.51	0.73
29:B1:182:U:H3	29:B1:234:G:H1	1.35	0.73
29:B1:344:A:C5	29:B1:345:G:C8	2.76	0.73
29:B1:943:U:H3'	54:BY:10:LYS:HA	1.69	0.73
29:B1:952:A:H5'	29:B1:952:A:C8	2.23	0.73
29:B1:972:A:H2'	29:B1:973:A:O4'	1.89	0.73
29:B1:1013:G:H3'	29:B1:1014:U:H4'	1.71	0.73
29:B1:1368:U:H2'	29:B1:1369:A:H8	1.51	0.73
29:B1:2726:C:H5"	29:B1:2727:A:H5"	1.70	0.73
29:B1:2806:U:O2'	29:B1:2807:U:H5'	1.89	0.73
29:B1:2820:A:H5'	29:B1:2821:C:OP2	1.88	0.73
29:B1:2986:U:H2'	29:B1:2987:A:H8	1.52	0.73
29:B1:3005:A:N3	29:B1:3140:G:N2	2.36	0.73
29:B1:3072:C:H5	29:B1:3073:A:C5	2.06	0.73
29:B1:3086:A:O3'	34:BC:365:PHE:O	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3215:A:H5"	29:B1:3218:A:OP1	1.87	0.73
29:B1:3221:C:N3	29:B1:3222:U:C5	2.56	0.73
29:B1:3245:A:O2'	29:B1:3246:G:O4'	2.07	0.73
29:B1:3273:A:H2'	29:B1:3274:A:O4'	1.88	0.73
29:B1:3333:G:C2	29:B1:3371:G:C8	2.77	0.73
29:B1:3363:U:H5"	29:B1:3364:C:OP2	1.89	0.73
74:B1:3536:OHX:N4	44:BO:84:PRO:HA	2.04	0.73
30:B2:54:U:H2'	30:B2:54:U:O2	1.88	0.73
31:B3:69:U:H2'	31:B3:70:G:C4'	2.18	0.73
31:B3:106:C:H4'	31:B3:107:G:O5'	1.86	0.73
54:BY:131:SER:C	54:BY:133:LEU:N	2.45	0.73
57:Bb:109:LEU:O	57:Bb:110:ALA:C	2.29	0.73
1:C1:14:C:P	3:CB:161:LYS:O	2.46	0.73
1:C1:61:A:N3	1:C1:61:A:H2'	2.03	0.73
1:C1:749:U:H2'	1:C1:750:U:C6	2.23	0.73
1:C1:913:G:H4'	1:C1:914:G:OP2	1.87	0.73
1:C1:1363:U:H2'	1:C1:1364:G:H1'	1.70	0.73
1:C1:1681:A:H5'	1:C1:1682:U:OP2	1.88	0.73
21:CT:21:THR:CB	21:CT:69:GLN:HA	2.18	0.73
29:D1:430:U:H2'	29:D1:431:U:H5'	1.68	0.73
29:D1:511:G:N2	29:D1:579:G:N2	2.36	0.73
29:D1:1141:C:C2	29:D1:1142:G:C8	2.76	0.73
29:D1:1624:G:N2	29:D1:1822:C:C4	2.56	0.73
29:D1:1931:U:C2	29:D1:2121:G:C2	2.76	0.73
29:D1:2383:C:C2	29:D1:2384:A:C8	2.77	0.73
29:D1:2761:G:N2	29:D1:2795:U:C2	2.57	0.73
29:D1:3049:A:C2	34:DC:75:ALA:HB2	2.23	0.73
29:D1:3104:U:O2	29:D1:3129:A:N7	2.22	0.73
29:D1:3201:C:C2'	29:D1:3202:G:H5'	2.18	0.73
30:D2:91:G:C5	30:D2:92:A:N7	2.57	0.73
31:D3:114:G:OP2	31:D3:114:G:H8	1.71	0.73
34:DC:295:ALA:H	34:DC:305:ILE:H	1.37	0.73
37:DF:160:SER:CB	38:DG:49:ALA:HB2	2.19	0.73
1:A1:115:G:H21	1:A1:334:G:H21	1.35	0.73
1:A1:732:G:H1'	1:A1:734:A:H61	1.52	0.73
1:A1:757:A:C5	1:A1:758:U:C5	2.76	0.73
1:A1:881:A:H5"	1:A1:882:U:OP2	1.89	0.73
1:A1:899:G:N2	1:A1:915:A:H2	1.85	0.73
1:A1:1783:C:H2'	1:A1:1784:C:H6	1.54	0.73
17:AP:104:LEU:O	17:AP:105:ALA:HB2	1.89	0.73
29:B1:96:G:N2	29:B1:97:U:H1'	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:337:G:N2	31:B3:27:U:C2	2.57	0.73
29:B1:592:A:C6	29:B1:593:C:C6	2.76	0.73
29:B1:595:G:N2	29:B1:610:G:OP1	2.21	0.73
29:B1:951:A:H2'	29:B1:952:A:C5'	2.10	0.73
29:B1:2279:A:O5'	29:B1:2280:A:H5"	1.88	0.73
29:B1:2592:G:C6	74:B1:3449:OHX:N3	2.57	0.73
29:B1:2667:A:H62	29:B1:2690:G:H1	1.36	0.73
29:B1:2682:C:H5'	29:B1:2683:U:OP2	1.87	0.73
29:B1:3111:U:C2'	29:B1:3112:G:H5'	2.19	0.73
29:B1:3176:G:C2'	29:B1:3177:G:H5"	2.18	0.73
29:B1:3189:G:H2'	29:B1:3190:C:C6	2.23	0.73
29:B1:3265:C:C4	29:B1:3266:G:N7	2.56	0.73
30:B2:98:C:C3'	30:B2:99:G:H5"	2.18	0.73
35:BD:100:PHE:O	35:BD:101:ALA:C	2.28	0.73
35:BD:165:ALA:O	35:BD:166:VAL:C	2.31	0.73
41:BJ:69:ARG:O	41:BJ:72:ALA:HB3	1.88	0.73
44:BO:78:GLY:N	44:BO:79:ALA:HB2	2.03	0.73
1:C1:1285:U:H4'	1:C1:1286:U:OP1	1.87	0.73
1:C1:1579:U:C2	1:C1:1580:C:C5	2.77	0.73
1:C1:1604:U:H5"	1:C1:1605:G:OP2	1.89	0.73
1:C1:1636:C:C2	1:C1:1765:A:N6	2.57	0.73
29:D1:515:C:C3'	29:D1:516:A:C5'	2.62	0.73
29:D1:707:U:H5"	29:D1:782:U:O2'	1.88	0.73
29:D1:742:G:H2'	29:D1:743:C:H5"	1.71	0.73
29:D1:1224:C:H5	29:D1:1285:G:O6	1.72	0.73
29:D1:1224:C:C5	29:D1:1285:G:O6	2.42	0.73
29:D1:1302:A:C2	29:D1:2887:A:C4	2.77	0.73
29:D1:1317:A:C8	29:D1:1319:G:N7	2.56	0.73
29:D1:1837:U:O2'	29:D1:1842:A:C8	2.40	0.73
29:D1:2146:C:C2'	29:D1:2147:A:C5'	2.64	0.73
29:D1:2310:U:H2'	29:D1:2311:G:O5'	1.89	0.73
29:D1:2943:G:H2'	29:D1:2944:U:O4'	1.89	0.73
29:D1:2999:U:H2'	29:D1:3000:A:H8	1.52	0.73
29:D1:3027:A:C2'	29:D1:3028:G:C8	2.69	0.73
31:D3:74:U:H1'	31:D3:89:A:C8	2.24	0.73
34:DC:12:GLY:O	34:DC:13:HIS:C	2.31	0.73
38:DG:30:ARG:O	38:DG:31:ALA:C	2.32	0.73
48:DS:62:ARG:O	48:DS:65:ALA:HB3	1.89	0.73
29:B1:264:G:C5	29:B1:265:A:C6	2.77	0.73
29:B1:509:U:C2	29:B1:510:G:C8	2.77	0.73
29:B1:715:A:H3'	54:BY:115:LYS:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:725:G:C2'	29:B1:726:G:H5"	2.19	0.73
29:B1:836:A:H1'	29:B1:858:A:C2	2.23	0.73
29:B1:1276:U:N3	74:B1:3563:OHX:N3	2.37	0.73
29:B1:3199:G:H3'	29:B1:3200:G:H8	1.53	0.73
29:B1:3218:A:H4'	29:B1:3220:G:H8	1.54	0.73
30:B2:42:A:H2	30:B2:47:C:C4	2.07	0.73
31:B3:17:A:H2'	31:B3:18:U:H6	1.53	0.73
31:B3:95:G:C4'	59:Bd:72:ARG:HA	2.18	0.73
47:BR:24:VAL:O	47:BR:27:LYS:N	2.22	0.73
1:C1:8:U:C5	1:C1:1140:G:O6	2.41	0.73
1:C1:292:U:H6	1:C1:292:U:O5'	1.72	0.73
1:C1:768:C:O2'	1:C1:769:A:H5'	1.87	0.73
1:C1:1005:A:N7	1:C1:1006:C:C5	2.57	0.73
1:C1:1006:C:C6	1:C1:1007:C:H5	2.06	0.73
1:C1:1146:G:C8	1:C1:1635:A:C2	2.69	0.73
1:C1:1197:C:H5'	1:C1:1198:G:OP2	1.89	0.73
1:C1:1348:A:N3	1:C1:1378:U:C6	2.56	0.73
7:CF:110:HIS:HA	7:CF:111:VAL:CB	2.19	0.73
10:CI:45:PHE:CB	10:CI:46:ALA:HA	2.17	0.73
17:CP:127:VAL:HA	17:CP:128:SER:C	2.14	0.73
29:D1:20:A:O2'	29:D1:21:G:O5'	2.05	0.73
29:D1:164:A:N6	29:D1:165:A:C6	2.56	0.73
29:D1:198:A:H1'	29:D1:218:G:N3	2.04	0.73
29:D1:597:G:N1	29:D1:607:A:C2	2.57	0.73
29:D1:705:A:H4'	29:D1:706:A:OP1	1.87	0.73
29:D1:1375:G:N3	29:D1:1407:A:H2	1.85	0.73
29:D1:1504:A:C4	29:D1:1505:C:C5	2.76	0.73
29:D1:2144:A:C2	29:D1:2281:A:C6	2.77	0.73
29:D1:2680:A:N6	42:DK:56:THR:C	2.46	0.73
29:D1:2880:U:H2'	29:D1:2881:C:H5'	1.70	0.73
29:D1:2900:A:C2'	29:D1:2901:G:O5'	2.37	0.73
29:D1:3057:U:H5'	29:D1:3086:A:H61	1.54	0.73
29:D1:3057:U:O2'	29:D1:3058:U:H4'	1.89	0.73
29:D1:3200:G:C8	29:D1:3200:G:OP2	2.41	0.73
29:D1:3314:A:H3'	34:DC:118:PHE:O	1.88	0.73
29:D1:3321:C:O2'	29:D1:3322:A:C3'	2.35	0.73
34:DC:142:ALA:O	34:DC:144:ILE:N	2.21	0.73
38:DG:238:LYS:HA	38:DG:241:LYS:CB	2.19	0.73
40:DI:161:LEU:O	40:DI:164:ILE:N	2.22	0.73
72:DL:38:SER:N	72:DL:68:GLN:HA	2.04	0.73
1:A1:556:A:C3'	1:A1:558:U:OP2	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1006:C:H5”	1:A1:1007:C:OP2	1.89	0.72
1:A1:1330:G:H2’	1:A1:1331:A:C8	2.23	0.72
1:A1:1349:G:H4’	1:A1:1350:U:H5’	1.70	0.72
1:A1:1712:A:H2’	1:A1:1713:G:C8	2.24	0.72
1:A1:1758:U:H2’	1:A1:1759:C:C6	2.23	0.72
20:AS:37:ASN:CB	20:AS:38:ILE:HA	2.18	0.72
29:B1:156:G:C8	29:B1:157:A:C1’	2.71	0.72
29:B1:391:A:OP1	29:B1:391:A:H4’	1.89	0.72
29:B1:637:C:C2	29:B1:2361:A:C2	2.77	0.72
29:B1:649:A:H2’	29:B1:650:C:H6	1.53	0.72
29:B1:1167:U:H5’	29:B1:1167:U:C6	2.23	0.72
29:B1:2167:A:H3’	29:B1:2168:A:H8	1.52	0.72
29:B1:2370:G:OP2	74:B1:3587:OHX:N1	2.21	0.72
29:B1:2540:A:H2’	29:B1:2541:U:C6	2.23	0.72
29:B1:2736:A:O3’	49:BT:72:VAL:CB	2.37	0.72
29:B1:2834:G:HO2’	29:B1:2835:U:H6	0.77	0.72
29:B1:3201:C:C2’	29:B1:3202:G:H5’	2.19	0.72
30:B2:77:G:O2’	30:B2:78:U:P	2.47	0.72
31:B3:2:A:C6	31:B3:3:A:C2	2.77	0.72
31:B3:69:U:N1	31:B3:70:G:H1’	2.03	0.72
31:B3:76:C:C4’	31:B3:77:A:OP1	2.37	0.72
31:B3:104:A:H5’	31:B3:105:A:O5’	1.89	0.72
45:BP:190:VAL:C	45:BP:192:LYS:H	1.96	0.72
65:Bk:11:UNK:O	65:Bk:14:UNK:N	2.22	0.72
1:C1:129:U:H4’	1:C1:129:U:OP1	1.87	0.72
1:C1:169:A:C5	1:C1:171:A:C6	2.77	0.72
1:C1:467:G:H5”	1:C1:468:A:OP2	1.88	0.72
1:C1:644:C:N4	1:C1:691:C:H42	1.87	0.72
1:C1:1040:G:H1	1:C1:1079:U:H3	1.35	0.72
1:C1:1338:C:C1’	1:C1:1410:A:N3	2.52	0.72
1:C1:1388:A:N7	1:C1:1411:A:N6	2.36	0.72
1:C1:1631:A:C2	1:C1:1632:C:H1’	2.24	0.72
13:CL:71:GLN:O	13:CL:75:ASN:N	2.22	0.72
29:D1:624:G:C2	29:D1:625:G:C8	2.76	0.72
29:D1:748:U:O2	29:D1:748:U:H2’	1.85	0.72
29:D1:873:C:H4’	29:D1:1907:C:O2’	1.89	0.72
29:D1:1003:A:C2	29:D1:1004:U:H1’	2.24	0.72
29:D1:1224:C:O5’	29:D1:1224:C:H6	1.70	0.72
29:D1:1405:U:H5’	57:Db:58:GLY:CA	2.14	0.72
29:D1:1930:A:C8	29:D1:1932:A:O4’	2.42	0.72
29:D1:3172:A:O2’	29:D1:3173:G:OP2	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3308:C:C5	29:D1:3309:G:N3	2.56	0.72
31:D3:58:G:H2'	31:D3:99:C:O2'	1.88	0.72
38:DG:187:GLU:O	38:DG:189:ILE:N	2.22	0.72
59:Dd:64:MET:O	59:Dd:66:TYR:N	2.22	0.72
1:A1:62:A:C4'	1:A1:63:G:OP2	2.37	0.72
1:A1:401:A:O3'	1:A1:402:C:H4'	1.89	0.72
1:A1:551:G:C2	1:A1:552:G:C5	2.77	0.72
1:A1:643:G:C2	1:A1:692:C:N3	2.57	0.72
1:A1:1374:C:H3'	1:A1:1375:A:C8	2.24	0.72
7:AF:128:CYS:H	7:AF:137:PHE:HA	1.54	0.72
9:AH:89:THR:HA	9:AH:90:ARG:C	2.14	0.72
29:B1:327:A:H2	29:B1:328:U:C5	2.05	0.72
29:B1:536:U:H1'	29:B1:537:A:OP2	1.88	0.72
29:B1:659:G:H2'	29:B1:660:A:N7	2.03	0.72
29:B1:693:A:H2'	29:B1:694:C:H6	1.54	0.72
29:B1:908:G:C8	29:B1:925:A:N3	2.56	0.72
29:B1:1214:U:O2'	29:B1:1215:U:H5'	1.88	0.72
29:B1:1479:U:OP2	29:B1:1480:G:N2	2.21	0.72
29:B1:2701:U:O2'	29:B1:2705:A:C8	2.42	0.72
29:B1:3123:A:N7	29:B1:3124:G:C8	2.58	0.72
29:B1:3198:U:C3'	29:B1:3199:G:C8	2.69	0.72
29:B1:3199:G:C3'	29:B1:3200:G:H8	2.02	0.72
29:B1:3256:G:H2'	29:B1:3256:G:N3	2.03	0.72
29:B1:3257:C:O2'	29:B1:3258:U:H5	1.72	0.72
31:B3:155:A:C2	31:B3:156:U:C2	2.77	0.72
1:C1:272:U:H3	1:C1:284:G:H1	0.77	0.72
29:D1:156:G:H1'	29:D1:157:A:OP1	1.90	0.72
29:D1:383:G:H3'	29:D1:384:A:C5'	2.16	0.72
29:D1:592:A:OP2	29:D1:592:A:H8	1.72	0.72
29:D1:1212:A:H2'	29:D1:1213:G:C5'	2.12	0.72
29:D1:2675:C:H41	29:D1:2676:A:H61	1.35	0.72
29:D1:2696:A:H62	29:D1:2697:A:N6	1.87	0.72
29:D1:2854:U:O2'	29:D1:2855:U:H5'	1.89	0.72
29:D1:3101:G:H2'	29:D1:3102:G:C5'	2.17	0.72
29:D1:3189:G:H2'	29:D1:3190:C:C6	2.22	0.72
29:D1:3214:U:O3'	29:D1:3218:A:H5'	1.90	0.72
31:D3:17:A:H2'	31:D3:18:U:H6	1.53	0.72
1:A1:33:U:O2	1:A1:468:A:C2	2.42	0.72
1:A1:64:U:H2'	1:A1:64:U:O2	1.87	0.72
1:A1:1139:A:C2'	1:A1:1140:G:O5'	2.33	0.72
1:A1:1235:C:O2'	1:A1:1236:A:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:236:PRO:O	3:AB:237:VAL:C	2.30	0.72
29:B1:284:A:N1	29:B1:306:A:C8	2.57	0.72
29:B1:511:G:C2	29:B1:579:G:N1	2.58	0.72
29:B1:528:U:H2'	29:B1:528:U:O2	1.87	0.72
29:B1:573:C:H2'	29:B1:574:U:C5	2.23	0.72
29:B1:836:A:H5'	29:B1:837:A:OP2	1.90	0.72
29:B1:938:C:H2'	29:B1:939:U:H5"	1.71	0.72
29:B1:1095:U:H2'	29:B1:1095:U:O2	1.87	0.72
29:B1:1229:G:H2'	29:B1:1230:G:C8	2.25	0.72
29:B1:1256:G:O6	29:B1:1261:G:H5"	1.89	0.72
29:B1:1623:G:C2	29:B1:1624:G:H1'	2.24	0.72
29:B1:1696:A:C2	29:B1:1697:A:C6	2.77	0.72
29:B1:1795:U:O3'	29:B1:1796:G:O4'	2.06	0.72
29:B1:1827:C:H2'	29:B1:1828:A:H8	1.54	0.72
29:B1:1913:A:N3	29:B1:2120:A:C8	2.56	0.72
29:B1:2144:A:C2	29:B1:2281:A:C6	2.76	0.72
29:B1:2294:U:H5'	29:B1:2295:A:OP2	1.89	0.72
29:B1:2376:G:N1	29:B1:2377:G:N1	2.37	0.72
29:B1:2561:A:OP1	29:B1:2561:A:H3'	1.89	0.72
29:B1:2608:G:H2'	29:B1:2609:A:C8	2.25	0.72
29:B1:3242:G:H1	29:B1:3244:A:C2'	1.96	0.72
29:B1:3333:G:C2	29:B1:3370:A:H4'	2.24	0.72
31:B3:69:U:H2'	31:B3:70:G:H4'	1.72	0.72
1:C1:142:G:C4	1:C1:266:A:N6	2.57	0.72
1:C1:148:A:H5"	1:C1:149:C:OP2	1.89	0.72
1:C1:1625:C:H2'	1:C1:1626:U:C6	2.24	0.72
1:C1:1684:U:O4	1:C1:1721:A:C2	2.42	0.72
1:C1:1711:C:H2'	1:C1:1712:A:C8	2.23	0.72
29:D1:122:A:H2'	29:D1:123:A:C8	2.24	0.72
29:D1:391:A:H4'	29:D1:391:A:OP1	1.89	0.72
29:D1:580:C:C2	29:D1:581:U:C5	2.77	0.72
29:D1:776:U:H5'	29:D1:777:U:H6	1.53	0.72
29:D1:945:C:H5"	29:D1:946:U:OP2	1.89	0.72
29:D1:1236:G:H3'	29:D1:1237:G:C5'	2.19	0.72
29:D1:1615:C:H2'	29:D1:1616:U:H6	1.54	0.72
29:D1:1647:A:C2'	29:D1:1648:A:H5'	2.18	0.72
29:D1:2540:A:H2'	29:D1:2541:U:C6	2.24	0.72
29:D1:2680:A:OP2	29:D1:2681:U:C4	2.42	0.72
29:D1:3214:U:OP2	29:D1:3215:A:OP2	2.07	0.72
29:D1:3271:G:N3	29:D1:3272:C:OP1	2.22	0.72
30:D2:88:G:C5	30:D2:89:G:N7	2.57	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:90:U:C4	30:D2:91:G:C5	2.76	0.72
34:DC:2:SER:O	34:DC:4:ARG:N	2.21	0.72
41:DJ:37:GLY:HA3	41:DJ:86:HIS:H	1.53	0.72
1:A1:394:C:N4	1:A1:401:A:H62	1.85	0.72
1:A1:427:C:C5'	1:A1:427:C:C6	2.72	0.72
1:A1:1160:A:C4	1:A1:1161:C:C5	2.77	0.72
1:A1:1197:C:O2	1:A1:1197:C:H2'	1.87	0.72
1:A1:1333:C:C2	1:A1:1419:G:N2	2.58	0.72
1:A1:1346:A:H3'	1:A1:1347:U:H6	1.54	0.72
1:A1:1464:G:O2'	1:A1:1465:C:H5'	1.90	0.72
1:A1:1686:C:H2'	1:A1:1687:U:C6	2.22	0.72
7:AF:129:ARG:O	7:AF:131:ILE:N	2.21	0.72
25:Ad:107:UNK:O	25:Ad:109:UNK:N	2.22	0.72
29:B1:25:U:O2'	29:B1:26:A:H5'	1.90	0.72
29:B1:516:A:OP1	29:B1:517:G:OP1	2.07	0.72
29:B1:524:U:O2'	29:B1:525:C:H5'	1.89	0.72
29:B1:661:G:C4	29:B1:802:C:O4'	2.43	0.72
29:B1:952:A:H62	29:B1:1142:G:N2	1.87	0.72
29:B1:1199:C:O2	29:B1:1199:C:H2'	1.87	0.72
29:B1:1354:G:H8	29:B1:1355:A:C6	2.07	0.72
29:B1:1415:U:C2	29:B1:1416:C:C5	2.78	0.72
29:B1:1625:A:H5"	29:B1:1626:U:H5"	1.72	0.72
29:B1:2278:C:H2'	29:B1:2279:A:H5"	1.70	0.72
29:B1:2359:C:H2'	29:B1:2360:C:C6	2.25	0.72
29:B1:2612:U:H1'	29:B1:2803:A:C2	2.24	0.72
29:B1:3037:U:H2'	29:B1:3038:U:C6	2.25	0.72
29:B1:3219:G:C8	29:B1:3257:C:C5'	2.69	0.72
34:BC:76:VAL:HA	34:BC:325:LYS:CB	2.19	0.72
35:BD:119:ARG:C	35:BD:121:ALA:H	1.94	0.72
57:Bb:22:SER:C	57:Bb:24:ARG:H	1.98	0.72
1:C1:546:U:H2'	1:C1:547:U:H6	1.54	0.72
1:C1:973:A:C4'	29:D1:847:A:C2	2.72	0.72
1:C1:1172:G:C6	1:C1:1173:C:N4	2.57	0.72
1:C1:1409:G:H5'	1:C1:1410:A:OP2	1.90	0.72
1:C1:1676:U:H4'	1:C1:1677:C:OP2	1.88	0.72
15:CN:54:GLY:HA3	15:CN:92:ASP:N	1.98	0.72
24:Cc:12:UNK:HA	24:Cc:13:UNK:O	1.90	0.72
29:D1:534:U:OP2	29:D1:534:U:C5	2.43	0.72
29:D1:819:U:H2'	29:D1:820:A:C8	2.24	0.72
29:D1:995:U:O4	29:D1:2637:A:C4	2.43	0.72
29:D1:1130:A:H2'	29:D1:1132:C:C5	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1140:G:H2'	29:D1:1141:C:H6	1.53	0.72
29:D1:1409:G:C2'	29:D1:1410:U:H5'	2.19	0.72
29:D1:1577:G:H2'	29:D1:1578:C:C6	2.24	0.72
29:D1:1912:U:C4	29:D1:1913:A:C2	2.76	0.72
29:D1:2254:U:C4	74:D1:3583:OHX:N6	2.58	0.72
29:D1:2267:C:H2'	29:D1:2268:U:O4'	1.89	0.72
29:D1:2696:A:C8	29:D1:2697:A:N7	2.58	0.72
29:D1:3001:C:O2'	29:D1:3002:C:H5'	1.88	0.72
29:D1:3085:G:H5'	29:D1:3331:U:OP1	1.89	0.72
29:D1:3139:A:H5'	29:D1:3139:A:C8	2.25	0.72
29:D1:3204:C:H2'	29:D1:3205:G:OP1	1.87	0.72
29:D1:3215:A:P	29:D1:3218:A:H5"	2.29	0.72
31:D3:1:A:C2	31:D3:2:A:C4	2.78	0.72
73:DM:14:LYS:O	73:DM:17:GLU:N	2.22	0.72
1:A1:55:A:O2'	1:A1:56:U:P	2.47	0.72
1:A1:646:C:C2'	1:A1:647:G:H5"	2.19	0.72
1:A1:1246:C:C5	1:A1:1247:U:C5	2.77	0.72
1:A1:1363:U:H2'	1:A1:1364:G:H1'	1.70	0.72
1:A1:1771:U:H2'	1:A1:1772:C:C6	2.23	0.72
28:Ah:2:UNK:O	28:Ah:3:UNK:C	2.37	0.72
29:B1:422:A:C1'	29:B1:423:A:C5'	2.65	0.72
29:B1:946:U:H2'	29:B1:947:G:H5'	1.71	0.72
29:B1:1376:C:C4	29:B1:1377:G:N7	2.57	0.72
29:B1:1493:G:P	29:B1:1493:G:H21	2.12	0.72
29:B1:1525:G:H1'	29:B1:1829:G:N3	2.04	0.72
29:B1:1618:G:H4'	31:B3:129:C:H1'	1.72	0.72
29:B1:2288:G:C4	29:B1:2289:U:C5	2.78	0.72
29:B1:2513:U:O2'	29:B1:2514:U:O5'	2.08	0.72
29:B1:2697:A:H2'	29:B1:2698:G:H8	1.53	0.72
29:B1:2772:C:OP1	29:B1:2772:C:H4'	1.89	0.72
29:B1:2933:A:N6	29:B1:2934:A:N1	2.37	0.72
29:B1:2997:G:N3	29:B1:2998:U:H5'	2.03	0.72
29:B1:3344:A:OP2	29:B1:3344:A:H2'	1.89	0.72
31:B3:72:A:O2'	31:B3:73:U:OP2	2.08	0.72
31:B3:78:G:C6	31:B3:79:A:N6	2.57	0.72
37:BF:99:GLU:O	37:BF:102:ASN:N	2.23	0.72
59:Bd:38:GLY:O	59:Bd:40:PRO:O	2.07	0.72
1:C1:17:C:C2	1:C1:18:C:C5	2.76	0.72
1:C1:43:A:H2'	1:C1:44:U:H5"	1.71	0.72
1:C1:385:A:H8	1:C1:385:A:OP2	1.72	0.72
1:C1:400:A:H4'	1:C1:401:A:O5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:518:A:C8	1:C1:519:C:H5”	2.24	0.72
1:C1:605:A:N7	1:C1:606:A:C6	2.57	0.72
1:C1:922:G:O2’	1:C1:923:A:H8	1.73	0.72
1:C1:1099:U:C5	1:C1:1100:G:C6	2.77	0.72
1:C1:1378:U:C5’	1:C1:1379:C:H6	2.03	0.72
16:CO:37:PHE:C	16:CO:39:GLN:H	1.97	0.72
17:CP:102:VAL:HA	17:CP:127:VAL:CB	2.19	0.72
29:D1:19:U:C4	29:D1:20:A:N6	2.56	0.72
29:D1:221:A:O2’	29:D1:223:U:OP2	2.07	0.72
29:D1:704:U:H6	29:D1:704:U:H3’	1.52	0.72
29:D1:716:A:H2’	29:D1:717:C:C2’	2.18	0.72
29:D1:1232:C:C2	29:D1:1261:G:C6	2.76	0.72
29:D1:1528:G:O2’	29:D1:1529:A:H5’	1.89	0.72
29:D1:1857:C:O2’	29:D1:1858:A:O4’	2.07	0.72
29:D1:1949:G:H2’	29:D1:1950:U:C6	2.24	0.72
29:D1:2423:U:H2’	29:D1:2424:A:C8	2.24	0.72
29:D1:3333:G:N2	29:D1:3371:G:C8	2.58	0.72
74:D1:3408:OHX:N6	74:D1:3582:OHX:N5	2.38	0.72
30:D2:55:A:H2	30:D2:56:A:C4	2.07	0.72
31:D3:138:A:C2	31:D3:139:U:C2	2.78	0.72
61:Df:47:GLN:N	61:Df:48:SER:HA	2.04	0.72
1:A1:221:A:C4	1:A1:833:U:H5	2.07	0.72
1:A1:1201:G:C4	1:A1:1202:A:O4’	2.42	0.72
74:A1:1913:OHX:N2	74:A1:1986:OHX:N4	2.38	0.72
6:AE:66:ASP:C	6:AE:68:LYS:N	2.44	0.72
10:AI:21:ASP:HA	10:AI:25:LEU:CB	2.19	0.72
29:B1:712:G:N2	29:B1:752:C:O3’	2.23	0.72
29:B1:834:U:H6	29:B1:834:U:C5’	2.02	0.72
29:B1:1079:A:H2’	29:B1:1080:A:H8	1.55	0.72
29:B1:2674:A:C8	42:BK:108:GLU:N	2.57	0.72
29:B1:2680:A:OP2	29:B1:2681:U:C4	2.42	0.72
29:B1:2696:A:H62	29:B1:2697:A:N6	1.88	0.72
29:B1:2702:A:C8	29:B1:2704:A:C6	2.76	0.72
29:B1:2775:U:O2’	29:B1:2776:C:P	2.48	0.72
29:B1:2844:C:H42	29:B1:2898:G:H22	1.38	0.72
29:B1:3113:A:C2	29:B1:3122:A:C4	2.78	0.72
29:B1:3207:U:C5	29:B1:3209:A:C2	2.77	0.72
29:B1:3308:C:H6	29:B1:3308:C:H3’	1.54	0.72
34:BC:133:TYR:C	34:BC:135:ALA:H	1.97	0.72
45:BP:81:TYR:O	45:BP:82:LYS:C	2.31	0.72
1:C1:537:G:H2’	1:C1:537:G:N3	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:791:A:H2'	1:C1:792:U:C6	2.24	0.72
1:C1:1485:C:H3'	1:C1:1486:G:H5"	1.71	0.72
1:C1:1786:G:H2'	1:C1:1787:C:C6	2.24	0.72
5:CD:199:ILE:C	5:CD:201:ALA:H	1.98	0.72
5:CD:204:GLY:C	5:CD:206:SER:H	1.96	0.72
21:CT:81:LEU:HA	21:CT:91:LEU:HA	1.70	0.72
28:Ch:58:UNK:O	28:Ch:62:UNK:CB	2.37	0.72
29:D1:65:A:H3'	29:D1:111:C:H41	1.54	0.72
29:D1:501:A:C6	29:D1:502:U:C4	2.78	0.72
29:D1:556:U:H2'	29:D1:557:A:O4'	1.89	0.72
29:D1:836:A:OP2	29:D1:836:A:H8	1.73	0.72
29:D1:1450:G:O5'	29:D1:1450:G:C8	2.40	0.72
29:D1:1627:U:H5	29:D1:1628:C:C4	2.07	0.72
29:D1:2285:C:H5	29:D1:2286:U:N3	1.86	0.72
29:D1:2290:C:O2'	29:D1:2291:A:O4'	2.06	0.72
29:D1:2417:U:H5	29:D1:2606:G:N7	1.88	0.72
29:D1:2872:A:C4'	29:D1:2873:U:OP1	2.37	0.72
29:D1:3273:A:N1	29:D1:3274:A:C5	2.58	0.72
29:D1:3295:A:O2'	29:D1:3296:A:H5'	1.90	0.72
31:D3:10:A:H2'	31:D3:11:C:H6	1.54	0.72
31:D3:78:G:O6	31:D3:79:A:N6	2.23	0.72
72:DL:46:ILE:HA	72:DL:49:ALA:HB2	1.71	0.72
1:A1:34:G:C6	1:A1:475:A:N6	2.57	0.72
1:A1:114:C:C5	1:A1:248:U:O4	2.43	0.72
1:A1:553:G:H3'	1:A1:554:C:H5"	1.71	0.72
1:A1:646:C:H2'	1:A1:647:G:H5"	1.72	0.72
1:A1:1663:G:C5	1:A1:1664:C:C5	2.78	0.72
1:A1:1673:G:C2'	1:A1:1674:C:H5'	2.18	0.72
1:A1:1753:A:N1	1:A1:1754:A:C6	2.58	0.72
10:AI:33:PHE:C	10:AI:35:LYS:H	1.97	0.72
29:B1:112:U:O2'	29:B1:113:C:O5'	2.06	0.72
29:B1:331:G:O2'	29:B1:332:C:OP1	2.08	0.72
29:B1:338:A:H4'	29:B1:338:A:OP2	1.89	0.72
29:B1:359:U:O2'	59:Bd:15:SER:CB	2.37	0.72
29:B1:760:G:H2'	29:B1:761:A:H8	1.54	0.72
29:B1:1145:G:C5	29:B1:1146:C:C5	2.77	0.72
29:B1:1563:C:H2'	29:B1:1564:U:C6	2.25	0.72
29:B1:2150:G:C2'	29:B1:2151:C:H5"	2.20	0.72
29:B1:2359:C:H2'	29:B1:2360:C:H6	1.54	0.72
29:B1:2545:C:H2'	29:B1:2546:C:H6	1.54	0.72
29:B1:2640:A:H2'	29:B1:2641:U:H6	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2761:G:H1	29:B1:2795:U:H3'	1.55	0.72
29:B1:2797:C:H3'	29:B1:2798:C:C5'	2.19	0.72
29:B1:3202:G:C2	29:B1:3203:U:N3	2.57	0.72
29:B1:3328:G:N2	29:B1:3329:U:C5	2.58	0.72
30:B2:77:G:H5"	37:BF:107:ALA:HA	1.71	0.72
31:B3:114:G:OP2	31:B3:114:G:H8	1.72	0.72
35:BD:273:GLY:O	35:BD:275:THR:N	2.22	0.72
1:C1:66:U:H3	1:C1:71:A:H62	1.33	0.72
1:C1:480:G:O2'	1:C1:481:A:H5'	1.89	0.72
1:C1:730:G:H2'	1:C1:731:C:H5'	1.71	0.72
1:C1:1044:U:H2'	1:C1:1044:U:O2	1.88	0.72
1:C1:1109:G:N3	1:C1:1110:G:C8	2.57	0.72
1:C1:1139:A:C2'	1:C1:1140:G:O5'	2.37	0.72
5:CD:133:VAL:O	5:CD:136:ALA:HB3	1.89	0.72
29:D1:115:A:C5	29:D1:116:A:N1	2.58	0.72
29:D1:156:G:C8	29:D1:157:A:C1'	2.73	0.72
29:D1:255:A:H2'	29:D1:256:G:C8	2.25	0.72
29:D1:264:G:C5	29:D1:265:A:N6	2.57	0.72
29:D1:1471:U:H2'	29:D1:1472:U:C6	2.25	0.72
29:D1:1705:U:O2'	29:D1:1706:C:O5'	2.08	0.72
29:D1:1903:U:C2	29:D1:1905:G:H5"	2.23	0.72
29:D1:2112:U:O2	29:D1:2113:A:N1	2.22	0.72
29:D1:2379:U:H2'	29:D1:2380:U:C6	2.25	0.72
29:D1:2520:A:N3	29:D1:2521:U:N3	2.37	0.72
29:D1:2971:A:OP1	29:D1:2971:A:H3'	1.89	0.72
29:D1:3055:U:O2'	29:D1:3056:U:H3'	1.90	0.72
29:D1:3141:A:H5'	29:D1:3143:C:O2	1.88	0.72
29:D1:3320:A:OP2	29:D1:3320:A:H3'	1.90	0.72
29:D1:3328:G:H1	29:D1:3375:A:H62	1.34	0.72
29:D1:3383:G:C2	29:D1:3384:U:C5	2.78	0.72
72:DL:38:SER:H	72:DL:68:GLN:HA	1.54	0.72
44:DO:85:THR:HA	44:DO:87:GLN:H	1.53	0.72
49:DT:14:MET:C	49:DT:16:GLN:H	1.97	0.72
1:A1:560:U:H2'	1:A1:561:G:H8	1.55	0.72
1:A1:1244:A:N3	1:A1:1244:A:C2'	2.51	0.72
1:A1:1515:A:H2'	1:A1:1516:A:C4'	2.20	0.72
1:A1:1760:G:C5	1:A1:1761:U:H5	2.07	0.72
29:B1:284:A:N6	29:B1:2785:A:H4'	2.05	0.72
29:B1:354:U:H2'	29:B1:354:U:O2	1.90	0.72
29:B1:392:G:C6	29:B1:393:U:C5	2.77	0.72
29:B1:886:C:O2'	29:B1:887:G:H5'	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1109:U:H5”	29:B1:1110:U:OP2	1.89	0.72
29:B1:2155:G:H2’	29:B1:2156:C:C6	2.24	0.72
29:B1:2281:A:O2’	29:B1:2282:U:H5”	1.90	0.72
29:B1:2655:U:H4’	29:B1:2656:A:O5’	1.90	0.72
29:B1:2961:G:C6	29:B1:2962:U:C4	2.76	0.72
29:B1:3271:G:N3	29:B1:3272:C:OP1	2.23	0.72
29:B1:3303:G:H1’	29:B1:3304:U:O5’	1.90	0.72
29:B1:3383:G:C2	29:B1:3384:U:C5	2.78	0.72
45:BP:57:PHE:N	45:BP:60:LYS:CB	2.53	0.72
1:C1:375:U:O2	1:C1:375:U:H2’	1.88	0.72
1:C1:556:A:H3’	1:C1:558:U:OP2	1.89	0.72
1:C1:883:C:H2’	1:C1:883:C:O2	1.90	0.72
1:C1:916:U:H5	1:C1:917:U:C4	2.08	0.72
1:C1:985:G:C4	1:C1:986:G:N7	2.58	0.72
1:C1:1166:A:C6	1:C1:1167:G:C8	2.77	0.72
1:C1:1280:C:H4’	15:CN:70:THR:CB	2.19	0.72
1:C1:1348:A:C2’	1:C1:1349:G:H5”	2.19	0.72
1:C1:1617:U:O2’	1:C1:1618:C:H5”	1.89	0.72
1:C1:1759:C:H2’	1:C1:1760:G:C8	2.25	0.72
21:CT:91:LEU:CB	21:CT:101:GLN:O	2.38	0.72
24:Cc:6:UNK:N	24:Cc:71:UNK:N	2.38	0.72
29:D1:882:A:H2’	29:D1:883:A:H5”	1.72	0.72
29:D1:1138:U:H2’	29:D1:1139:G:H5”	1.70	0.72
29:D1:1454:A:O2’	29:D1:1455:U:OP1	2.03	0.72
29:D1:2192:C:H2’	29:D1:2193:U:H5’	1.71	0.72
29:D1:2287:C:N3	29:D1:2298:U:O2	2.23	0.72
29:D1:2356:A:C2	29:D1:2357:A:C4	2.78	0.72
29:D1:2816:G:H4’	29:D1:2817:A:C5’	2.19	0.72
29:D1:2912:G:C6	29:D1:2913:C:N3	2.58	0.72
29:D1:3078:U:H1’	29:D1:3079:U:OP2	1.90	0.72
29:D1:3190:C:H2’	29:D1:3190:C:O2	1.88	0.72
30:D2:27:A:C2	30:D2:28:C:C2	2.78	0.72
31:D3:141:C:H2’	31:D3:142:C:H6	1.53	0.72
45:DP:57:PHE:O	45:DP:58:LEU:CB	2.37	0.72
1:A1:272:U:H4’	1:A1:272:U:OP1	1.87	0.72
1:A1:272:U:H3	1:A1:284:G:H1	0.77	0.72
1:A1:315:A:C5	1:A1:350:U:H5	2.07	0.72
1:A1:427:C:H6	1:A1:427:C:H5’	1.52	0.72
1:A1:651:G:O2’	1:A1:652:G:H5”	1.89	0.72
13:AL:71:GLN:O	13:AL:75:ASN:N	2.23	0.72
29:B1:53:G:H2’	29:B1:54:C:H6	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:680:G:C6	29:B1:681:U:O4	2.43	0.72
29:B1:705:A:H4'	29:B1:706:A:OP1	1.90	0.72
29:B1:761:A:H3'	29:B1:762:U:C5'	2.20	0.72
29:B1:849:C:O2'	29:B1:850:U:H5'	1.89	0.72
29:B1:1159:A:O2'	29:B1:1160:C:OP2	2.08	0.72
29:B1:1875:G:C5	29:B1:1876:U:C5	2.77	0.72
29:B1:2150:G:H2'	29:B1:2151:C:H5"	1.70	0.72
29:B1:2699:G:H2'	29:B1:2700:G:O4'	1.90	0.72
29:B1:2702:A:H8	29:B1:2704:A:N6	1.83	0.72
29:B1:2766:U:H2'	29:B1:2767:U:C6	2.25	0.72
30:B2:121:U:O3'	36:BE:266:ALA:HB3	1.89	0.72
35:BD:7:THR:N	35:BD:19:ALA:HA	2.03	0.72
40:BI:157:ASN:O	40:BI:158:ALA:C	2.32	0.72
41:BJ:155:ALA:O	41:BJ:158:LYS:N	2.21	0.72
42:BK:142:LYS:O	42:BK:143:ARG:O	2.08	0.72
56:Ba:85:ALA:CB	56:Ba:86:LYS:HA	2.18	0.72
1:C1:591:A:H2'	1:C1:592:A:H8	1.55	0.72
1:C1:611:U:H5	1:C1:612:U:C5	2.08	0.72
1:C1:930:A:H5"	1:C1:931:C:OP2	1.88	0.72
1:C1:1099:U:OP1	1:C1:1099:U:C4'	2.36	0.72
1:C1:1358:G:C6	1:C1:1359:C:N4	2.58	0.72
1:C1:1364:G:C5	1:C1:1365:C:C5	2.77	0.72
1:C1:1385:G:C2	1:C1:1386:G:C8	2.78	0.72
1:C1:1558:U:H6	1:C1:1558:U:H3'	1.55	0.72
1:C1:1613:U:H3	1:C1:1614:A:H8	1.35	0.72
1:C1:1657:U:C4	74:C1:1955:OHX:N2	2.58	0.72
1:C1:1663:G:C5	1:C1:1664:C:C5	2.77	0.72
29:D1:511:G:C2	29:D1:579:G:N1	2.57	0.72
29:D1:592:A:C2'	29:D1:593:C:O2'	2.38	0.72
29:D1:594:U:C6	29:D1:609:G:N2	2.57	0.72
29:D1:609:G:C4'	29:D1:610:G:OP1	2.38	0.72
29:D1:898:U:C4	29:D1:899:U:C5	2.78	0.72
29:D1:1540:U:O2	29:D1:1540:U:H2'	1.88	0.72
29:D1:2114:C:H4'	29:D1:2116:G:C4	2.24	0.72
29:D1:2278:C:H2'	29:D1:2279:A:H5"	1.71	0.72
29:D1:2363:A:C2	29:D1:2376:G:C5	2.78	0.72
29:D1:2682:C:OP1	42:DK:51:ARG:N	2.22	0.72
29:D1:2716:U:O2	29:D1:2716:U:H2'	1.88	0.72
29:D1:3205:G:N2	43:DN:89:ALA:HB1	2.05	0.72
29:D1:3308:C:H6	29:D1:3308:C:H3'	1.54	0.72
29:D1:3316:A:H61	29:D1:3388:C:H42	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DG:75:TYR:CB	38:DG:76:TYR:HA	2.19	0.72
40:DI:161:LEU:C	40:DI:163:GLN:H	1.98	0.72
47:DR:150:VAL:CB	47:DR:151:ARG:HA	2.19	0.72
48:DS:130:ASN:C	48:DS:132:PHE:H	1.96	0.72
1:A1:258:C:O2'	1:A1:259:U:C6	2.42	0.72
1:A1:379:U:OP2	1:A1:380:U:OP2	2.08	0.72
1:A1:518:A:H61	1:A1:535:A:C1'	2.03	0.72
1:A1:521:A:H3'	1:A1:523:G:C8	2.25	0.72
1:A1:551:G:H5"	1:A1:552:G:OP2	1.90	0.72
1:A1:622:A:H4'	1:A1:623:A:OP1	1.82	0.72
1:A1:1003:A:C8	1:A1:1005:A:C6	2.78	0.72
1:A1:1119:G:H2'	1:A1:1120:U:C6	2.23	0.72
1:A1:1188:G:H2'	1:A1:1189:A:H8	1.55	0.72
1:A1:1364:G:C5	1:A1:1365:C:C5	2.78	0.72
2:AA:186:GLY:CA	2:AA:187:ALA:HB2	2.16	0.72
13:AL:121:ALA:HB3	13:AL:124:GLY:HA3	1.72	0.72
29:B1:157:A:O2'	29:B1:158:G:C4	2.39	0.72
29:B1:736:A:H2'	29:B1:737:G:C8	2.25	0.72
29:B1:891:G:O2'	29:B1:892:U:H5'	1.90	0.72
29:B1:1054:A:N6	29:B1:1055:A:C2	2.57	0.72
29:B1:1268:G:H22	29:B1:1272:C:H42	1.38	0.72
29:B1:1448:U:O2'	29:B1:1449:A:H5'	1.90	0.72
29:B1:1686:U:H4'	29:B1:1687:U:OP2	1.86	0.72
29:B1:1900:A:N3	29:B1:1906:G:C8	2.57	0.72
29:B1:1915:A:H2'	29:B1:1916:U:C6	2.25	0.72
29:B1:1927:G:H3'	29:B1:1927:G:N3	2.05	0.72
29:B1:2145:A:C2	29:B1:2146:C:C5	2.78	0.72
29:B1:2602:G:C4	29:B1:2603:G:C8	2.78	0.72
29:B1:3096:C:C2	29:B1:3097:C:C5	2.78	0.72
29:B1:3205:G:N2	43:BN:89:ALA:HB1	2.05	0.72
29:B1:3257:C:OP2	29:B1:3257:C:H6	1.72	0.72
30:B2:67:G:N1	30:B2:68:C:C2	2.57	0.72
31:B3:42:G:H5"	59:Bd:55:ARG:CB	2.19	0.72
35:BD:39:PHE:O	35:BD:40:THR:C	2.32	0.72
60:Be:26:TRP:O	60:Be:28:ARG:N	2.23	0.72
1:C1:328:A:N6	1:C1:341:A:N6	2.37	0.72
1:C1:523:G:C4	1:C1:524:U:O4	2.43	0.72
1:C1:1193:A:H4'	1:C1:1194:A:OP2	1.89	0.72
1:C1:1235:C:O2'	1:C1:1236:A:H5'	1.89	0.72
1:C1:1339:C:O2'	1:C1:1340:U:H5'	1.89	0.72
1:C1:1468:U:O2'	1:C1:1469:A:O4'	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1678:A:H2	1:C1:1725:U:N3	1.87	0.72
29:D1:563:U:C2'	29:D1:564:G:H4'	2.19	0.72
29:D1:680:G:H2'	29:D1:681:U:C6	2.25	0.72
29:D1:826:G:H2'	29:D1:827:A:C8	2.24	0.72
29:D1:836:A:OP2	29:D1:836:A:C8	2.43	0.72
29:D1:891:G:O2'	29:D1:892:U:H5'	1.90	0.72
29:D1:1204:A:H62	29:D1:1300:G:H21	1.38	0.72
29:D1:1452:A:H1'	29:D1:2347:U:C5'	2.20	0.72
29:D1:1725:C:H2'	29:D1:1726:C:C6	2.25	0.72
29:D1:1740:U:C2'	29:D1:1741:A:H5'	2.19	0.72
29:D1:1747:G:H2'	29:D1:1748:G:H5'	1.70	0.72
29:D1:1777:U:H2'	29:D1:1778:G:H8	1.55	0.72
29:D1:1795:U:O3'	29:D1:1796:G:O4'	2.08	0.72
29:D1:2249:G:O4'	29:D1:2272:G:C8	2.42	0.72
29:D1:2370:G:C4	29:D1:2371:G:C8	2.78	0.72
29:D1:2880:U:O2'	29:D1:2881:C:H5'	1.89	0.72
29:D1:3035:A:C5	29:D1:3036:G:N7	2.58	0.72
29:D1:3048:A:H62	29:D1:3090:U:H3'	1.55	0.72
29:D1:3178:A:O2'	29:D1:3179:U:OP1	2.06	0.72
29:D1:3209:A:H3'	29:D1:3210:A:C8	2.25	0.72
29:D1:3228:C:H2'	29:D1:3229:G:H8	1.55	0.72
29:D1:3299:A:C2	29:D1:3300:U:C5	2.78	0.72
37:DF:99:GLU:O	37:DF:102:ASN:N	2.23	0.72
1:A1:104:A:H5'	1:A1:105:A:OP2	1.90	0.71
1:A1:365:G:C6	1:A1:377:G:C6	2.78	0.71
1:A1:606:A:C5	1:A1:608:U:C5	2.77	0.71
1:A1:826:U:H2'	1:A1:827:C:C6	2.25	0.71
1:A1:1073:G:C6	1:A1:1074:G:C6	2.78	0.71
1:A1:1315:U:H5"	1:A1:1329:A:N3	2.04	0.71
1:A1:1625:C:H2'	1:A1:1626:U:C6	2.25	0.71
14:AM:60:SER:C	14:AM:62:ALA:H	1.94	0.71
14:AM:126:GLU:O	14:AM:128:GLY:N	2.22	0.71
29:B1:422:A:H4'	29:B1:423:A:OP2	1.90	0.71
29:B1:1123:U:H2'	29:B1:1124:U:O4'	1.90	0.71
29:B1:2267:C:H2'	29:B1:2268:U:O4'	1.90	0.71
29:B1:2301:U:H2'	29:B1:2302:G:H8	1.55	0.71
29:B1:2357:A:N1	29:B1:2983:C:H5	1.87	0.71
29:B1:3219:G:C2	29:B1:3258:U:OP2	2.43	0.71
30:B2:2:G:H2'	30:B2:3:U:H6	1.54	0.71
36:BE:28:THR:C	36:BE:30:TYR:N	2.43	0.71
1:C1:776:G:C2	1:C1:785:U:O2	2.43	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1656:U:H5"	1:C1:1657:U:O5'	1.90	0.71
15:CN:12:GLN:C	15:CN:14:GLN:N	2.44	0.71
29:D1:11:A:N1	31:D3:148:G:C6	2.58	0.71
29:D1:190:U:H5'	29:D1:191:U:OP1	1.90	0.71
29:D1:213:A:H61	29:D1:227:G:C2'	2.02	0.71
29:D1:327:A:C2	29:D1:328:U:C4	2.75	0.71
29:D1:392:G:C2	29:D1:393:U:C6	2.78	0.71
29:D1:562:C:O2'	29:D1:563:U:H5'	1.90	0.71
29:D1:722:G:N2	29:D1:749:C:C6	2.58	0.71
29:D1:722:G:N1	29:D1:748:U:N3	2.37	0.71
29:D1:761:A:H3'	29:D1:762:U:C5'	2.20	0.71
29:D1:2513:U:H1'	29:D1:2514:U:H2'	1.72	0.71
29:D1:2592:G:O6	74:D1:3463:OHX:N4	2.22	0.71
29:D1:2997:G:H1'	29:D1:2998:U:C5'	2.19	0.71
29:D1:3165:A:C2'	29:D1:3166:C:H5'	2.20	0.71
74:D1:3502:OHX:N4	54:DY:20:GLY:HA2	2.04	0.71
31:D3:40:A:N3	31:D3:41:A:C8	2.58	0.71
31:D3:123:G:C6	31:D3:131:A:N6	2.58	0.71
31:D3:155:A:C2	31:D3:156:U:C2	2.78	0.71
36:DE:28:THR:C	36:DE:30:TYR:N	2.37	0.71
72:DL:23:GLY:O	72:DL:27:ALA:HB3	1.89	0.71
72:DL:77:ALA:O	72:DL:79:SER:N	2.23	0.71
1:A1:36:C:H2'	1:A1:37:U:C6	2.25	0.71
1:A1:400:A:C4'	1:A1:401:A:H5'	2.18	0.71
1:A1:750:U:H2'	1:A1:751:G:H5'	1.72	0.71
1:A1:830:U:H2'	1:A1:830:U:O2	1.90	0.71
20:AS:24:CYS:CB	74:AS:101:OHX:N2	2.53	0.71
21:AT:81:LEU:HA	21:AT:91:LEU:HA	1.70	0.71
29:B1:144:A:H2'	29:B1:145:G:O4'	1.89	0.71
29:B1:354:U:OP2	29:B1:364:G:N1	2.22	0.71
29:B1:360:G:H2'	29:B1:361:A:C8	2.26	0.71
29:B1:716:A:H2'	29:B1:717:C:C3'	2.20	0.71
29:B1:1167:U:O3'	38:BG:211:SER:O	2.08	0.71
29:B1:2628:A:H1'	29:B1:2798:C:C5	2.25	0.71
29:B1:2761:G:N2	29:B1:2795:U:C2	2.58	0.71
29:B1:2853:A:C6	29:B1:2854:U:N3	2.58	0.71
29:B1:3012:A:N1	29:B1:3043:C:C2	2.58	0.71
29:B1:3316:A:O4'	29:B1:3317:U:OP2	2.08	0.71
30:B2:9:C:C5	30:B2:10:C:O2	2.43	0.71
30:B2:14:U:O4'	30:B2:14:U:OP2	2.07	0.71
1:C1:138:A:N6	1:C1:142:G:H1'	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:827:C:C2	1:C1:846:G:C6	2.76	0.71
1:C1:1003:A:C8	1:C1:1005:A:C6	2.78	0.71
1:C1:1149:G:H4'	1:C1:1150:G:OP1	1.89	0.71
1:C1:1358:G:H2'	1:C1:1358:G:N3	2.02	0.71
1:C1:1379:C:C3'	1:C1:1380:U:H5'	2.21	0.71
1:C1:1459:C:H4'	1:C1:1460:A:OP1	1.87	0.71
11:CJ:93:HIS:CB	11:CJ:94:GLN:CA	2.68	0.71
29:D1:132:C:O2	29:D1:132:C:C2'	2.38	0.71
29:D1:548:G:C4	29:D1:549:U:H1'	2.25	0.71
29:D1:1057:A:C5	29:D1:1058:U:C5	2.79	0.71
29:D1:1130:A:O2'	29:D1:1131:G:H3'	1.89	0.71
29:D1:1350:A:H5'	29:D1:1351:U:C5	2.23	0.71
29:D1:1563:C:H2'	29:D1:1564:U:C6	2.25	0.71
29:D1:2141:U:N3	29:D1:2956:A:C2	2.58	0.71
29:D1:2145:A:C2	29:D1:2146:C:C5	2.78	0.71
29:D1:2545:C:H2'	29:D1:2546:C:H6	1.54	0.71
29:D1:2678:A:H8	29:D1:2679:A:N3	1.87	0.71
29:D1:3000:A:H2'	29:D1:3001:C:H6	1.54	0.71
29:D1:3121:U:H4'	29:D1:3122:A:OP1	1.90	0.71
29:D1:3297:U:C2	29:D1:3298:C:C6	2.77	0.71
29:D1:3301:U:H2'	29:D1:3302:U:C5	2.25	0.71
29:D1:3316:A:C4'	29:D1:3317:U:OP2	2.37	0.71
30:D2:64:A:N1	30:D2:111:U:C4	2.58	0.71
30:D2:75:G:P	74:D2:201:OHX:N1	2.63	0.71
34:DC:51:ALA:CB	34:DC:79:VAL:HA	2.19	0.71
36:DE:78:ALA:HB1	36:DE:105:ILE:CB	2.19	0.71
38:DG:75:TYR:CB	38:DG:76:TYR:CA	2.68	0.71
45:DP:158:ALA:O	45:DP:159:LYS:C	2.34	0.71
47:DR:43:PRO:O	47:DR:45:ASN:N	2.23	0.71
48:DS:18:GLY:O	48:DS:20:ARG:N	2.22	0.71
1:A1:76:A:H1'	1:A1:77:U:C5	2.25	0.71
1:A1:183:U:O2'	1:A1:184:C:H5"	1.90	0.71
1:A1:251:A:H2'	1:A1:252:U:H5'	1.73	0.71
1:A1:296:U:H2'	1:A1:297:U:C6	2.25	0.71
1:A1:314:C:N3	1:A1:354:C:N4	2.36	0.71
1:A1:404:G:H2'	1:A1:405:C:C6	2.25	0.71
1:A1:1109:G:H2'	1:A1:1110:G:H5'	1.71	0.71
1:A1:1109:G:O6	1:A1:1136:U:O4	2.08	0.71
1:A1:1385:G:N3	1:A1:1386:G:C8	2.58	0.71
4:AC:67:ASN:O	4:AC:71:LEU:CB	2.38	0.71
29:B1:132:C:O2	29:B1:132:C:C2'	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:596:C:H5'	29:B1:597:G:OP1	1.91	0.71
29:B1:718:G:H4'	29:B1:719:U:C5'	2.19	0.71
29:B1:952:A:N3	29:B1:1114:U:H4'	2.05	0.71
29:B1:1158:A:O2'	29:B1:1330:A:C2	2.44	0.71
29:B1:1213:G:H8	29:B1:1213:G:C5'	2.03	0.71
29:B1:1317:A:C8	29:B1:1319:G:N7	2.59	0.71
29:B1:1375:G:N3	29:B1:1407:A:H2	1.87	0.71
29:B1:1495:U:C5'	29:B1:1496:C:C5	2.72	0.71
29:B1:1539:A:N6	29:B1:1583:A:C8	2.58	0.71
29:B1:2223:A:O2'	29:B1:2224:A:C8	2.29	0.71
29:B1:2602:G:H2'	29:B1:2603:G:H8	1.54	0.71
29:B1:2703:A:H3'	29:B1:2704:A:C5'	2.21	0.71
29:B1:3165:A:C2'	29:B1:3166:C:H5'	2.21	0.71
29:B1:3225:C:N4	29:B1:3261:C:N4	2.38	0.71
29:B1:3302:U:C3'	29:B1:3303:G:H5"	2.19	0.71
29:B1:3364:C:O2'	29:B1:3365:U:H5'	1.90	0.71
29:B1:3390:G:C6	29:B1:3391:A:C5	2.78	0.71
31:B3:103:G:C6	31:B3:105:A:C6	2.78	0.71
44:BO:78:GLY:HA3	44:BO:79:ALA:HB2	1.73	0.71
1:C1:389:G:H2'	1:C1:390:G:H8	1.55	0.71
1:C1:425:A:H5'	1:C1:425:A:H8	1.54	0.71
1:C1:830:U:HO2'	1:C1:831:U:H6	1.36	0.71
1:C1:1109:G:H2'	1:C1:1110:G:H5'	1.72	0.71
1:C1:1579:U:C4	1:C1:1580:C:N4	2.58	0.71
1:C1:1594:G:O6	1:C1:1595:U:N3	2.23	0.71
1:C1:1622:G:H3'	1:C1:1623:C:H6	1.55	0.71
29:D1:199:A:C6	29:D1:219:A:C6	2.79	0.71
29:D1:524:U:O2'	29:D1:525:C:H5'	1.90	0.71
29:D1:591:G:N2	29:D1:592:A:N9	2.37	0.71
29:D1:951:A:N3	29:D1:1369:A:C2	2.57	0.71
29:D1:1002:A:O2'	29:D1:1003:A:H5'	1.90	0.71
29:D1:1167:U:H5'	29:D1:1167:U:H6	1.54	0.71
29:D1:1175:C:O2'	29:D1:1176:C:O5'	2.07	0.71
29:D1:2168:A:C2	29:D1:2170:U:C1'	2.73	0.71
29:D1:2379:U:H2'	29:D1:2380:U:H6	1.53	0.71
29:D1:2987:A:C4	29:D1:2988:C:C5	2.78	0.71
29:D1:3118:C:H2'	29:D1:3119:U:C6	2.25	0.71
31:D3:129:C:C2	31:D3:130:C:C5	2.78	0.71
33:DB:171:GLY:C	62:Dg:68:ALA:HB2	2.15	0.71
33:DB:229:ALA:O	33:DB:231:SER:N	2.24	0.71
34:DC:85:VAL:O	34:DC:87:VAL:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:86:TYR:CB	40:DI:87:LYS:HA	2.19	0.71
41:DJ:65:LEU:O	41:DJ:68:ALA:HB3	1.90	0.71
43:DN:24:LYS:HA	43:DN:31:LYS:C	2.16	0.71
59:Dd:23:GLY:N	74:Dd:101:OHX:N4	2.36	0.71
1:A1:872:G:H5'	1:A1:873:U:OP2	1.89	0.71
1:A1:1008:G:N2	1:A1:1009:U:H1'	2.04	0.71
1:A1:1515:A:H2'	1:A1:1516:A:H5"	1.72	0.71
1:A1:1711:C:H2'	1:A1:1712:A:C8	2.25	0.71
29:B1:648:C:C5	29:B1:2375:G:O5'	2.42	0.71
29:B1:1184:A:H5'	29:B1:1184:A:H8	1.55	0.71
29:B1:1313:G:C4	29:B1:1314:C:C5	2.78	0.71
29:B1:1337:A:C5	29:B1:1338:C:C5	2.79	0.71
29:B1:1350:A:H5'	29:B1:1351:U:C5	2.24	0.71
29:B1:1454:A:O2'	29:B1:1455:U:OP1	2.05	0.71
29:B1:1539:A:C5	29:B1:1540:U:H5	2.08	0.71
29:B1:1777:U:H2'	29:B1:1778:G:H8	1.54	0.71
29:B1:2284:C:H2'	29:B1:2285:C:O2	1.90	0.71
29:B1:2676:A:C2	29:B1:2680:A:C6	2.78	0.71
29:B1:3152:U:H4'	29:B1:3153:U:OP2	1.90	0.71
30:B2:4:U:H2'	30:B2:5:G:C8	2.25	0.71
39:BH:99:PRO:C	39:BH:101:THR:N	2.44	0.71
1:C1:25:C:H3'	1:C1:25:C:C6	2.25	0.71
1:C1:336:G:H4'	7:CF:132:SER:HA	1.72	0.71
1:C1:356:G:C6	1:C1:357:G:N7	2.58	0.71
1:C1:479:C:H3'	1:C1:480:G:C8	2.26	0.71
1:C1:651:G:O2'	1:C1:652:G:H5"	1.90	0.71
1:C1:714:G:H2'	1:C1:715:U:C6	2.25	0.71
1:C1:1356:U:H2'	1:C1:1357:A:C8	2.25	0.71
1:C1:1558:U:C6	1:C1:1559:A:C2	2.78	0.71
1:C1:1713:G:H2'	1:C1:1713:G:N3	2.05	0.71
1:C1:1764:C:H5'	1:C1:1764:C:C6	2.25	0.71
12:CK:58:MET:HA	12:CK:63:LYS:H	1.55	0.71
14:CM:58:ALA:O	14:CM:62:ALA:HB2	1.90	0.71
14:CM:128:GLY:C	14:CM:130:ARG:H	1.97	0.71
29:D1:517:G:H3'	29:D1:517:G:P	2.31	0.71
29:D1:557:A:C8	29:D1:557:A:H3'	2.24	0.71
29:D1:1013:G:H3'	29:D1:1014:U:H4'	1.73	0.71
29:D1:1220:U:P	29:D1:1222:G:O2'	2.49	0.71
29:D1:1399:A:N3	29:D1:1399:A:H2'	2.04	0.71
29:D1:1495:U:C5'	29:D1:1496:C:C5	2.73	0.71
29:D1:1930:A:H4'	29:D1:1931:U:OP1	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2581:U:H5”	74:D1:3567:OHX:N3	2.06	0.71
29:D1:2628:A:H1’	29:D1:2798:C:C5	2.24	0.71
29:D1:2655:U:H4’	29:D1:2656:A:O5’	1.86	0.71
29:D1:3086:A:O3’	34:DC:365:PHE:O	2.08	0.71
29:D1:3296:A:C2	29:D1:3297:U:H1’	2.25	0.71
30:D2:12:U:OP2	30:D2:68:C:H4’	1.90	0.71
35:DD:115:HIS:O	35:DD:117:GLU:N	2.23	0.71
37:DF:21:THR:HA	37:DF:112:THR:N	2.04	0.71
37:DF:152:THR:HA	37:DF:156:LYS:H	1.55	0.71
1:A1:457:G:O2’	1:A1:458:G:H5’	1.90	0.71
1:A1:467:G:H5”	1:A1:468:A:OP2	1.90	0.71
1:A1:824:G:C5’	1:A1:825:U:H5’	2.19	0.71
1:A1:847:A:H2’	1:A1:848:C:H5”	1.72	0.71
29:B1:566:G:O2’	29:B1:567:G:H5’	1.89	0.71
29:B1:605:U:H6	29:B1:605:U:C5’	2.03	0.71
29:B1:609:G:H3’	29:B1:609:G:OP1	1.89	0.71
29:B1:979:U:C4’	29:B1:980:A:OP1	2.38	0.71
29:B1:1075:A:N1	69:Bp:245:UNK:C	2.53	0.71
29:B1:1303:A:C2	29:B1:2887:A:C2	2.77	0.71
29:B1:1459:C:C2’	29:B1:1460:A:H5’	2.21	0.71
29:B1:3174:A:H4’	29:B1:3174:A:OP2	1.90	0.71
29:B1:3217:C:H1’	29:B1:3220:G:O2’	1.91	0.71
36:BE:109:THR:O	36:BE:252:ALA:HB2	1.90	0.71
39:BH:93:LEU:O	39:BH:94:PHE:C	2.33	0.71
1:C1:127:G:O6	1:C1:179:A:C6	2.29	0.71
1:C1:569:C:O4’	1:C1:583:C:H4’	1.90	0.71
1:C1:594:A:C4’	1:C1:595:G:H5’	2.21	0.71
1:C1:619:A:P	1:C1:620:A:OP2	2.49	0.71
1:C1:813:U:O2	1:C1:813:U:H2’	1.89	0.71
1:C1:825:U:O2’	1:C1:826:U:C6	2.42	0.71
1:C1:1346:A:H3’	1:C1:1347:U:H6	1.55	0.71
1:C1:1558:U:H2’	1:C1:1559:A:C2	2.25	0.71
4:CC:175:VAL:CB	4:CC:183:GLY:H	2.03	0.71
29:D1:679:U:H2’	29:D1:680:G:H8	1.55	0.71
29:D1:1063:G:C8	29:D1:1064:A:O4’	2.44	0.71
29:D1:1560:G:O6	29:D1:1579:C:N3	2.23	0.71
29:D1:2092:A:H3’	29:D1:2093:A:C5’	2.19	0.71
29:D1:2682:C:H5’	29:D1:2683:U:OP2	1.91	0.71
29:D1:3136:G:C4	29:D1:3137:C:C6	2.78	0.71
30:D2:95:A:C2	30:D2:96:U:C2	2.79	0.71
34:DC:72:VAL:HA	50:DU:88:ARG:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:169:A:C5	1:A1:171:A:C6	2.78	0.71
1:A1:560:U:H2'	1:A1:561:G:C8	2.26	0.71
1:A1:804:A:H2'	1:A1:805:U:C6	2.25	0.71
1:A1:844:A:H2'	1:A1:845:G:H8	1.56	0.71
1:A1:1227:A:C8	1:A1:1229:G:H5'	2.26	0.71
1:A1:1558:U:H2'	1:A1:1559:A:C2	2.25	0.71
1:A1:1781:A:H8	1:A1:1781:A:O5'	1.72	0.71
17:AP:106:GLY:HA2	17:AP:122:PHE:HA	1.73	0.71
24:Ac:36:UNK:O	24:Ac:40:UNK:N	2.23	0.71
29:B1:115:A:H2'	29:B1:116:A:H2	1.55	0.71
29:B1:307:A:O2'	29:B1:2223:A:H1'	1.90	0.71
29:B1:637:C:C2	29:B1:2361:A:N3	2.59	0.71
29:B1:705:A:C6	29:B1:715:A:N7	2.59	0.71
29:B1:727:G:H22	29:B1:741:U:H3	1.37	0.71
29:B1:827:A:H2'	29:B1:827:A:N3	2.04	0.71
29:B1:1310:G:H5'	29:B1:1310:G:H8	1.56	0.71
29:B1:1495:U:C2	29:B1:1842:A:C2	2.75	0.71
29:B1:3101:G:O2'	29:B1:3102:G:H5"	1.89	0.71
30:B2:5:G:H2'	30:B2:6:C:H5"	1.73	0.71
31:B3:24:G:N2	31:B3:25:G:H1'	2.06	0.71
33:BB:49:VAL:O	33:BB:50:HIS:O	2.09	0.71
35:BD:119:ARG:C	35:BD:121:ALA:N	2.45	0.71
37:BF:157:GLN:C	37:BF:159:LEU:H	1.99	0.71
38:BG:83:LEU:HA	38:BG:84:VAL:CB	2.18	0.71
45:BP:57:PHE:O	45:BP:58:LEU:CB	2.38	0.71
65:Bk:6:UNK:O	65:Bk:9:UNK:N	2.24	0.71
1:C1:44:U:H5'	1:C1:45:U:O4	1.90	0.71
1:C1:981:U:H1'	1:C1:1124:A:H2	1.55	0.71
1:C1:1092:A:O2'	1:C1:1093:A:H3'	1.91	0.71
1:C1:1094:G:H2'	1:C1:1095:U:H5	1.56	0.71
1:C1:1330:G:H2'	1:C1:1331:A:H8	1.54	0.71
1:C1:1756:A:O2'	1:C1:1757:G:H5'	1.89	0.71
20:CS:24:CYS:CB	74:CS:101:OHX:N4	2.53	0.71
20:CS:38:ILE:C	20:CS:40:ARG:N	2.47	0.71
29:D1:542:G:H2'	29:D1:543:C:H6	1.55	0.71
29:D1:1175:C:OP2	29:D1:1175:C:H3'	1.91	0.71
29:D1:1192:C:H5'	29:D1:1298:C:OP1	1.90	0.71
29:D1:1238:C:H2'	29:D1:1239:C:C6	2.26	0.71
29:D1:2746:A:N6	29:D1:2747:A:C2	2.59	0.71
29:D1:2858:U:H2'	29:D1:2859:U:C5	2.25	0.71
29:D1:2947:G:H2'	29:D1:2948:C:C5	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3072:C:H5	29:D1:3073:A:N7	1.86	0.71
29:D1:3370:A:H5'	29:D1:3371:G:OP1	1.90	0.71
29:D1:3383:G:N3	29:D1:3384:U:C5	2.58	0.71
32:DA:154:THR:C	32:DA:157:PHE:H	1.97	0.71
45:DP:18:ARG:C	45:DP:20:ALA:N	2.46	0.71
1:A1:65:A:C4'	1:A1:66:U:OP1	2.34	0.71
1:A1:115:G:N2	1:A1:334:G:N2	2.37	0.71
1:A1:157:A:O2'	1:A1:158:U:H5'	1.91	0.71
1:A1:264:G:C3'	1:A1:265:A:H5'	2.19	0.71
1:A1:707:A:H2'	1:A1:731:C:N4	2.05	0.71
1:A1:1175:U:H3	1:A1:1464:G:H1	1.39	0.71
2:AA:17:LEU:C	2:AA:19:ALA:N	2.41	0.71
29:B1:159:A:H2'	29:B1:160:G:C8	2.25	0.71
29:B1:503:C:N3	29:B1:588:G:N1	2.38	0.71
29:B1:596:C:H3'	29:B1:597:G:C5'	2.18	0.71
29:B1:770:G:H2'	29:B1:771:A:O4'	1.91	0.71
29:B1:1180:A:C5	29:B1:1182:A:C8	2.78	0.71
29:B1:1311:G:H1'	29:B1:2381:G:H5'	1.73	0.71
29:B1:1468:A:C2	29:B1:1469:C:C4	2.78	0.71
29:B1:1482:A:OP2	29:B1:1858:A:C5	2.43	0.71
29:B1:2517:U:O2	29:B1:2517:U:H2'	1.91	0.71
29:B1:2702:A:O4'	29:B1:2704:A:C8	2.43	0.71
29:B1:2852:C:C5	29:B1:2853:A:C4	2.78	0.71
29:B1:2953:U:H2'	29:B1:2954:U:C6	2.24	0.71
29:B1:3160:U:C2	29:B1:3161:C:C5	2.78	0.71
29:B1:3228:C:H2'	29:B1:3229:G:H8	1.56	0.71
29:B1:3302:U:H3'	29:B1:3303:G:H5"	1.70	0.71
30:B2:77:G:H1'	30:B2:78:U:OP2	1.91	0.71
30:B2:91:G:C6	30:B2:92:A:C5	2.78	0.71
31:B3:72:A:N3	31:B3:88:A:N1	2.38	0.71
1:C1:330:G:C4	1:C1:331:A:C8	2.79	0.71
1:C1:365:G:C6	1:C1:377:G:C6	2.79	0.71
1:C1:1219:A:H5'	1:C1:1220:C:C5	2.15	0.71
1:C1:1466:G:C4	1:C1:1467:C:C5	2.78	0.71
1:C1:1556:A:H2'	1:C1:1560:U:C4	2.26	0.71
1:C1:1722:A:H4'	1:C1:1722:A:OP1	1.85	0.71
29:D1:140:C:H2'	29:D1:141:C:H6	1.53	0.71
29:D1:188:U:O2	29:D1:222:A:C2	2.44	0.71
29:D1:534:U:C6	29:D1:534:U:P	2.84	0.71
29:D1:1223:A:N6	29:D1:1285:G:OP2	2.23	0.71
29:D1:1334:U:H5"	38:DG:206:LYS:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1337:A:H2'	29:D1:1338:C:H6	1.55	0.71
29:D1:1901:A:C5'	29:D1:2919:A:OP1	2.38	0.71
29:D1:2397:A:H8	29:D1:2941:A:H61	1.39	0.71
29:D1:3060:C:O2'	29:D1:3331:U:O2	2.08	0.71
29:D1:3201:C:P	29:D1:3201:C:C6	2.77	0.71
30:D2:14:U:C6	30:D2:14:U:P	2.84	0.71
33:DB:216:HIS:O	33:DB:217:GLN:CB	2.39	0.71
37:DF:21:THR:HA	37:DF:111:LEU:O	1.90	0.71
72:DL:62:LEU:HA	72:DL:70:ALA:O	1.91	0.71
1:A1:913:G:H4'	1:A1:914:G:OP2	1.89	0.71
1:A1:951:A:H2'	1:A1:952:A:O5'	1.89	0.71
1:A1:1121:C:H1'	1:A1:1127:G:N2	2.06	0.71
1:A1:1533:C:H5"	1:A1:1534:G:OP2	1.90	0.71
1:A1:1683:C:H2'	1:A1:1719:A:N1	2.06	0.71
5:AD:204:GLY:C	5:AD:206:SER:H	1.97	0.71
29:B1:13:A:H2	29:B1:15:C:H3'	1.56	0.71
29:B1:18:G:N2	31:B3:142:C:C2	2.59	0.71
29:B1:312:C:H2'	29:B1:313:A:H8	1.55	0.71
29:B1:627:U:O3'	29:B1:1399:A:C8	2.43	0.71
29:B1:829:U:C4'	29:B1:866:A:H2	2.02	0.71
29:B1:1302:A:C4	29:B1:2887:A:C2	2.78	0.71
29:B1:1317:A:O2'	29:B1:1318:A:H3'	1.90	0.71
29:B1:1371:G:H5'	29:B1:1372:C:OP2	1.91	0.71
29:B1:1472:U:O2'	29:B1:1473:G:H5'	1.91	0.71
29:B1:2593:A:H4'	29:B1:2594:C:C5'	2.18	0.71
29:B1:2816:G:H4'	29:B1:2817:A:C5'	2.21	0.71
29:B1:2847:A:H3'	29:B1:2848:G:H8	1.55	0.71
29:B1:3107:U:H2'	29:B1:3108:G:H8	1.56	0.71
29:B1:3136:G:C4	29:B1:3137:C:C6	2.79	0.71
33:BB:145:LYS:O	33:BB:156:LYS:HA	1.90	0.71
37:BF:160:SER:CB	38:BG:49:ALA:HB2	2.20	0.71
1:C1:500:C:H2'	1:C1:501:U:C6	2.25	0.71
1:C1:568:G:H4'	17:CP:90:ASP:HA	1.73	0.71
1:C1:792:U:H2'	1:C1:792:U:O2	1.90	0.71
1:C1:872:G:H5'	1:C1:873:U:OP2	1.90	0.71
1:C1:1017:U:H2'	1:C1:1018:U:C6	2.26	0.71
1:C1:1378:U:C5'	1:C1:1379:C:C6	2.73	0.71
6:CE:82:ARG:CB	6:CE:149:ARG:HA	2.20	0.71
9:CH:63:ALA:O	9:CH:65:GLN:N	2.23	0.71
29:D1:115:A:H2'	29:D1:116:A:H2	1.55	0.71
29:D1:421:G:H8	29:D1:421:G:C3'	1.94	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:608:A:C8	29:D1:608:A:C3'	2.74	0.71
29:D1:986:U:C2'	29:D1:987:U:O5'	2.39	0.71
29:D1:1075:A:C8	29:D1:1076:C:H6	2.06	0.71
29:D1:1550:C:C2'	29:D1:1551:C:H5'	2.20	0.71
29:D1:1560:G:OP2	29:D1:1560:G:H3'	1.90	0.71
29:D1:1716:U:H2'	29:D1:1716:U:O2	1.90	0.71
29:D1:2631:U:O2'	29:D1:2632:G:H5'	1.91	0.71
29:D1:3049:A:N3	34:DC:75:ALA:HB2	2.05	0.71
29:D1:3102:G:H8	29:D1:3102:G:C5'	2.02	0.71
29:D1:3107:U:H2'	29:D1:3108:G:H8	1.55	0.71
30:D2:16:U:O2'	30:D2:17:A:H5'	1.90	0.71
31:D3:29:U:O2'	31:D3:30:C:H5'	1.89	0.71
37:DF:165:LEU:O	37:DF:166:LYS:C	2.33	0.71
42:DK:121:GLY:C	42:DK:123:PHE:H	1.97	0.71
44:DO:155:VAL:O	44:DO:157:LYS:N	2.23	0.71
54:DY:15:VAL:O	54:DY:17:ALA:HA	1.90	0.71
1:A1:268:C:N3	1:A1:288:A:H2	1.89	0.71
1:A1:802:G:C6	1:A1:803:A:N1	2.59	0.71
1:A1:1125:A:C5	1:A1:1126:G:H1'	2.26	0.71
1:A1:1382:A:H5"	15:AN:59:PRO:HA	1.72	0.71
1:A1:1507:G:C2	1:A1:1508:U:H1'	2.26	0.71
1:A1:1676:U:H4'	1:A1:1677:C:OP2	1.89	0.71
18:AQ:46:LYS:O	18:AQ:50:ILE:CB	2.39	0.71
22:Aa:11:UNK:O	22:Aa:14:UNK:CB	2.39	0.71
29:B1:12:A:H8	29:B1:12:A:OP2	1.74	0.71
29:B1:140:C:H2'	29:B1:141:C:H6	1.54	0.71
29:B1:344:A:H2'	29:B1:345:G:O5'	1.91	0.71
29:B1:1115:G:H8	29:B1:1115:G:H3'	1.55	0.71
29:B1:1455:U:H3'	29:B1:1456:A:H8	1.55	0.71
29:B1:1720:U:O4	48:BS:124:TYR:CB	2.37	0.71
29:B1:1806:A:H2'	29:B1:1807:G:O4'	1.91	0.71
29:B1:2376:G:C6	29:B1:2377:G:O6	2.44	0.71
29:B1:2633:U:O2'	29:B1:2634:U:H5'	1.91	0.71
29:B1:2900:A:C2	29:B1:2901:G:C5	2.79	0.71
42:BK:7:ASN:HA	42:BK:8:PRO:CB	2.21	0.71
1:C1:129:U:C5	1:C1:264:G:O6	2.43	0.71
1:C1:806:A:C2'	1:C1:807:A:H5"	2.21	0.71
1:C1:1065:A:H2'	1:C1:1066:C:C6	2.26	0.71
1:C1:1364:G:H3'	1:C1:1365:C:H5'	1.73	0.71
1:C1:1599:C:O2'	1:C1:1600:A:N3	2.23	0.71
29:D1:182:U:H3	29:D1:234:G:H1	1.35	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:415:G:H2'	29:D1:416:A:H8	1.56	0.71
29:D1:504:A:H2	29:D1:587:U:O2	1.73	0.71
29:D1:761:A:C2	29:D1:762:U:H1'	2.26	0.71
29:D1:821:U:O2'	29:D1:822:G:H5'	1.91	0.71
29:D1:952:A:N3	29:D1:1114:U:H4'	2.05	0.71
29:D1:1023:C:H3'	29:D1:1024:G:C4'	2.21	0.71
29:D1:1213:G:H8	29:D1:1213:G:C5'	2.01	0.71
29:D1:1804:A:H2'	29:D1:1805:C:H6	1.56	0.71
29:D1:1908:A:N6	29:D1:1909:A:C6	2.59	0.71
29:D1:2209:U:C6	29:D1:2209:U:OP2	2.43	0.71
29:D1:2270:A:C2	29:D1:2271:A:C4	2.78	0.71
29:D1:2826:U:C2'	29:D1:2827:U:H5'	2.20	0.71
29:D1:3047:U:O2'	29:D1:3048:A:C5'	2.38	0.71
29:D1:3241:G:N2	29:D1:3246:G:C2	2.59	0.71
30:D2:3:U:H2'	30:D2:4:U:C6	2.26	0.71
31:D3:17:A:C5	31:D3:18:U:C5	2.79	0.71
45:DP:21:SER:O	45:DP:22:VAL:C	2.34	0.71
56:Da:85:ALA:CB	56:Da:86:LYS:HA	2.17	0.71
1:A1:221:A:C5	1:A1:833:U:C5	2.79	0.71
1:A1:500:C:H2'	1:A1:501:U:C6	2.26	0.71
1:A1:1713:G:H2'	1:A1:1713:G:N3	2.06	0.71
29:B1:11:A:O2'	29:B1:12:A:H5'	1.91	0.71
29:B1:284:A:H2'	29:B1:284:A:N3	2.05	0.71
29:B1:744:A:C6	29:B1:745:C:N3	2.58	0.71
29:B1:821:U:C2'	29:B1:822:G:H5'	2.19	0.71
29:B1:1041:U:H2'	29:B1:1042:U:H5'	1.72	0.71
29:B1:1295:G:H2'	29:B1:1296:C:C6	2.26	0.71
29:B1:1353:U:H2'	29:B1:1354:G:H5"	1.73	0.71
29:B1:1422:G:C5	29:B1:1423:C:C5	2.78	0.71
29:B1:1539:A:C2'	29:B1:1540:U:H5'	2.20	0.71
29:B1:2898:G:H8	29:B1:2898:G:O5'	1.74	0.71
30:B2:23:A:C8	30:B2:24:A:N7	2.59	0.71
31:B3:70:G:C8	31:B3:71:A:N6	2.59	0.71
41:BJ:75:TYR:O	41:BJ:76:MET:C	2.32	0.71
1:C1:250:C:O2	1:C1:251:A:C8	2.44	0.71
1:C1:515:A:H2'	1:C1:516:G:OP1	1.91	0.71
1:C1:889:U:O2'	1:C1:890:C:H5'	1.91	0.71
1:C1:1761:U:O2'	1:C1:1762:A:OP2	2.07	0.71
5:CD:208:SER:CB	5:CD:209:TYR:HA	2.21	0.71
6:CE:143:ILE:O	6:CE:145:SER:N	2.23	0.71
8:CG:125:LEU:O	8:CG:126:ALA:C	2.32	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CT:116:ASP:CB	21:CT:121:MET:H	2.04	0.71
29:D1:141:C:H2'	29:D1:142:C:C6	2.26	0.71
29:D1:208:C:C2'	29:D1:209:A:C5'	2.68	0.71
29:D1:235:A:H2'	29:D1:236:G:C8	2.26	0.71
29:D1:606:C:C2'	29:D1:607:A:H1'	2.16	0.71
29:D1:739:G:H2'	29:D1:740:G:C8	2.25	0.71
29:D1:1054:A:N6	29:D1:1055:A:C2	2.59	0.71
29:D1:1220:U:H4'	29:D1:1222:G:H3'	1.73	0.71
29:D1:1234:G:H3'	29:D1:1235:U:H2'	1.72	0.71
29:D1:1435:A:H8	29:D1:1437:C:C6	2.08	0.71
29:D1:2638:C:C2	29:D1:2639:G:C8	2.79	0.71
29:D1:3058:U:O2'	29:D1:3059:G:OP1	2.08	0.71
29:D1:3068:U:OP1	48:DS:58:HIS:HA	1.91	0.71
29:D1:3141:A:C4'	29:D1:3143:C:H2'	2.19	0.71
31:D3:2:A:O2'	31:D3:3:A:H5'	1.91	0.71
31:D3:10:A:N3	31:D3:11:C:C6	2.59	0.71
31:D3:128:U:C5'	31:D3:129:C:H5	2.02	0.71
36:DE:223:PHE:O	36:DE:225:GLY:HA3	1.90	0.71
44:DO:49:ARG:HA	44:DO:53:TYR:CB	2.21	0.71
1:A1:66:U:H3	1:A1:71:A:H62	1.33	0.70
1:A1:93:A:N3	1:A1:399:A:C2	2.59	0.70
1:A1:110:U:H4'	1:A1:797:G:H21	1.54	0.70
1:A1:394:C:C2'	1:A1:395:U:H5'	2.21	0.70
1:A1:553:G:H3'	1:A1:554:C:C5'	2.20	0.70
1:A1:772:G:C5	1:A1:773:C:N3	2.58	0.70
1:A1:951:A:C2'	1:A1:952:A:O5'	2.38	0.70
1:A1:1170:G:O6	1:A1:1574:G:C6	2.44	0.70
1:A1:1259:U:O5'	1:A1:1259:U:C6	2.44	0.70
1:A1:1347:U:H2'	1:A1:1349:G:N7	2.06	0.70
1:A1:1348:A:C2	1:A1:1378:U:C6	2.79	0.70
29:B1:11:A:H1'	29:B1:1557:A:H61	1.53	0.70
29:B1:306:A:N6	29:B1:2783:U:H3	1.89	0.70
29:B1:340:C:H2'	29:B1:341:G:C8	2.26	0.70
29:B1:1140:G:H2'	29:B1:1141:C:C6	2.26	0.70
29:B1:1194:G:H4'	29:B1:1320:C:OP1	1.91	0.70
29:B1:1307:G:O2'	29:B1:1308:A:OP2	2.08	0.70
29:B1:1310:G:H2'	29:B1:1311:G:O5'	1.91	0.70
29:B1:1463:U:C4	29:B1:1464:G:N7	2.58	0.70
29:B1:2269:U:C6	29:B1:2272:G:O6	2.44	0.70
29:B1:2423:U:H2'	29:B1:2424:A:C8	2.26	0.70
29:B1:3005:A:C2	29:B1:3140:G:N3	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3311:C:H2'	29:B1:3312:U:C6	2.26	0.70
29:B1:3316:A:C4'	29:B1:3317:U:OP2	2.39	0.70
29:B1:3392:U:H2'	29:B1:3393:U:C6	2.25	0.70
34:BC:189:SER:O	34:BC:190:GLU:C	2.34	0.70
35:BD:10:SER:HA	35:BD:17:ALA:H	1.54	0.70
40:BI:92:TYR:HA	40:BI:179:ILE:HA	1.73	0.70
44:BO:39:ALA:N	44:BO:62:TYR:HA	2.00	0.70
1:C1:61:A:C4'	1:C1:62:A:H5'	2.21	0.70
1:C1:509:G:C2'	1:C1:510:G:H8	2.01	0.70
1:C1:557:G:C2'	1:C1:558:U:H4'	2.21	0.70
1:C1:595:G:H2'	1:C1:596:C:C6	2.26	0.70
1:C1:1003:A:N7	1:C1:1005:A:C2	2.59	0.70
1:C1:1195:C:OP1	1:C1:1197:C:H1'	1.90	0.70
1:C1:1399:C:H2'	1:C1:1400:A:C8	2.26	0.70
1:C1:1464:G:O2'	1:C1:1465:C:H5'	1.91	0.70
29:D1:284:A:N6	29:D1:2785:A:O4'	2.24	0.70
29:D1:423:A:H2'	29:D1:424:G:O5'	1.90	0.70
29:D1:723:U:H2'	29:D1:724:U:C5'	2.21	0.70
29:D1:821:U:C2'	29:D1:822:G:H5'	2.20	0.70
29:D1:979:U:C4'	29:D1:980:A:OP1	2.38	0.70
29:D1:1041:U:H2'	29:D1:1042:U:H5'	1.73	0.70
29:D1:1060:U:H4'	29:D1:1060:U:OP1	1.91	0.70
29:D1:1130:A:H2'	29:D1:1132:C:H6	1.54	0.70
29:D1:1368:U:H2'	29:D1:1369:A:H8	1.56	0.70
29:D1:1461:A:H2'	29:D1:1462:A:H8	1.55	0.70
29:D1:1784:G:O2'	29:D1:1785:U:H5'	1.89	0.70
29:D1:2105:G:H5'	29:D1:2105:G:C8	2.26	0.70
29:D1:2151:C:O2'	29:D1:2243:A:N1	2.17	0.70
29:D1:2772:C:OP1	29:D1:2772:C:H4'	1.90	0.70
29:D1:2912:G:C6	29:D1:3130:A:C5	2.79	0.70
29:D1:3071:U:O2'	29:D1:3072:C:C5'	2.39	0.70
29:D1:3160:U:C2	29:D1:3161:C:C5	2.79	0.70
51:DV:22:VAL:O	51:DV:23:ARG:O	2.09	0.70
60:De:10:LYS:O	60:De:11:GLN:C	2.32	0.70
1:A1:270:C:H3'	1:A1:271:A:H5"	1.73	0.70
1:A1:533:U:H3'	1:A1:534:A:C8	2.26	0.70
1:A1:844:A:H2'	1:A1:845:G:C8	2.26	0.70
1:A1:883:C:H2'	1:A1:883:C:O2	1.90	0.70
1:A1:1094:G:H2'	1:A1:1095:U:H5	1.54	0.70
1:A1:1110:G:O2'	1:A1:1111:G:O5'	2.08	0.70
1:A1:1304:G:N7	1:A1:1305:U:C5	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1338:C:C1’	1:A1:1410:A:N3	2.55	0.70
1:A1:1347:U:H5’	15:AN:10:GLU:CA	2.18	0.70
1:A1:1773:C:H5”	1:A1:1774:G:OP2	1.90	0.70
10:AI:19:GLY:H	13:AL:98:TYR:HA	1.56	0.70
20:AS:38:ILE:C	20:AS:40:ARG:N	2.48	0.70
29:B1:52:A:H2’	29:B1:53:G:O5’	1.90	0.70
29:B1:121:A:OP2	29:B1:121:A:C4	2.44	0.70
29:B1:213:A:H2’	29:B1:214:G:O4’	1.90	0.70
29:B1:258:G:C2	29:B1:259:C:C6	2.78	0.70
29:B1:1105:A:H2’	29:B1:1106:G:H8	1.52	0.70
29:B1:1139:G:C8	29:B1:1139:G:H5’	2.26	0.70
29:B1:1406:A:C2	29:B1:1407:A:C5	2.79	0.70
29:B1:1625:A:H3’	29:B1:1626:U:H5”	1.73	0.70
29:B1:1695:U:O2’	29:B1:1749:A:N1	2.19	0.70
29:B1:1750:A:H5’	29:B1:1751:G:C8	2.27	0.70
29:B1:2256:A:O2’	29:B1:2257:C:P	2.49	0.70
29:B1:2834:G:N3	29:B1:2835:U:C6	2.59	0.70
29:B1:3383:G:N3	29:B1:3384:U:C5	2.58	0.70
37:BF:150:LYS:O	37:BF:152:THR:N	2.24	0.70
43:BN:50:LYS:H	43:BN:53:VAL:CB	2.03	0.70
45:BP:148:LYS:CB	45:BP:149:TYR:CB	2.69	0.70
1:C1:17:C:H2’	1:C1:18:C:H6	1.56	0.70
1:C1:269:G:C6	1:C1:287:G:N1	2.59	0.70
1:C1:553:G:H3’	1:C1:554:C:H5”	1.73	0.70
1:C1:970:A:H2’	1:C1:971:A:H5’	1.72	0.70
5:CD:153:GLY:CA	5:CD:154:ALA:HB3	2.20	0.70
29:D1:247:C:H2’	29:D1:248:U:H4’	1.72	0.70
29:D1:503:C:N3	29:D1:588:G:N1	2.39	0.70
29:D1:736:A:H2’	29:D1:737:G:H8	1.56	0.70
29:D1:965:A:C6	29:D1:966:U:N3	2.59	0.70
29:D1:1517:G:H2’	29:D1:1518:U:H6	1.55	0.70
29:D1:1539:A:H2’	29:D1:1540:U:H5’	1.73	0.70
29:D1:2149:A:H8	29:D1:2149:A:H3’	1.56	0.70
29:D1:2520:A:N3	29:D1:2521:U:C2	2.59	0.70
29:D1:3244:A:C8	29:D1:3245:A:N7	2.59	0.70
29:D1:3273:A:H2’	29:D1:3274:A:O4’	1.91	0.70
29:D1:3304:U:O2’	29:D1:3305:A:H5’	1.90	0.70
30:D2:7:G:H2’	30:D2:8:G:O4’	1.90	0.70
30:D2:64:A:C1’	30:D2:65:G:O5’	2.40	0.70
31:D3:109:A:C2’	31:D3:110:C:H5’	2.21	0.70
34:DC:53:MET:HA	34:DC:77:THR:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:76:VAL:HA	34:DC:325:LYS:CB	2.20	0.70
45:DP:124:LEU:CB	45:DP:128:ARG:N	2.54	0.70
45:DP:190:VAL:C	45:DP:192:LYS:H	1.98	0.70
1:A1:17:C:H2'	1:A1:18:C:H6	1.55	0.70
1:A1:297:U:H2'	1:A1:298:C:O5'	1.91	0.70
1:A1:319:U:H6	1:A1:319:U:H5'	1.54	0.70
1:A1:611:U:H5"	1:A1:612:U:OP2	1.91	0.70
1:A1:737:A:O2'	1:A1:738:G:C8	2.40	0.70
1:A1:922:G:O2'	1:A1:923:A:H8	1.74	0.70
1:A1:973:A:H2'	1:A1:974:A:C8	2.26	0.70
1:A1:1032:G:H2'	1:A1:1033:C:C6	2.26	0.70
1:A1:1089:U:C2'	1:A1:1090:C:H5'	2.21	0.70
1:A1:1292:G:H2'	1:A1:1293:U:C6	2.26	0.70
1:A1:1382:A:O2'	1:A1:1383:G:H5"	1.91	0.70
21:AT:289:ALA:CA	21:AT:305:TYR:HA	2.11	0.70
29:B1:1152:G:O2'	29:B1:1153:A:OP1	2.08	0.70
29:B1:1564:U:C2	29:B1:1565:G:C8	2.80	0.70
29:B1:1577:G:H2'	29:B1:1578:C:C6	2.26	0.70
29:B1:1716:U:H3'	29:B1:1717:U:C4'	2.20	0.70
29:B1:1785:U:HO2'	29:B1:1786:G:H8	1.36	0.70
29:B1:2271:A:C3'	29:B1:2272:G:H5"	2.20	0.70
29:B1:2673:A:H2	29:B1:2674:A:C5	2.08	0.70
29:B1:2714:G:N2	29:B1:2751:G:C5	2.60	0.70
29:B1:2931:C:C4	29:B1:2932:U:C5	2.78	0.70
29:B1:3196:U:H5	29:B1:3198:U:C6	2.10	0.70
29:B1:3273:A:C6	29:B1:3274:A:C8	2.78	0.70
29:B1:3305:A:C6	29:B1:3306:U:N3	2.58	0.70
29:B1:3377:G:H1'	29:B1:3378:C:OP1	1.91	0.70
30:B2:11:A:N1	36:BE:16:PHE:HA	2.07	0.70
31:B3:29:U:O2'	31:B3:30:C:H5'	1.92	0.70
38:BG:73:GLY:HA2	38:BG:74:SER:C	2.12	0.70
39:BH:99:PRO:HA	39:BH:236:GLY:N	2.06	0.70
1:C1:518:A:H8	1:C1:519:C:H5"	1.53	0.70
1:C1:620:A:C5	1:C1:621:A:N1	2.59	0.70
1:C1:1109:G:H2'	1:C1:1110:G:C5'	2.21	0.70
1:C1:1255:G:O4'	1:C1:1255:G:OP2	2.10	0.70
1:C1:1358:G:H5'	1:C1:1359:C:OP2	1.90	0.70
1:C1:1632:C:C2	1:C1:1633:A:N7	2.60	0.70
29:D1:59:G:O3'	29:D1:60:A:H4'	1.89	0.70
29:D1:514:G:O3'	29:D1:515:C:O4'	2.09	0.70
29:D1:532:A:H3'	29:D1:533:A:C8	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1056:U:H6	29:D1:1056:U:O5'	1.74	0.70
29:D1:1212:A:C3'	29:D1:1213:G:H5"	2.21	0.70
29:D1:1226:G:N3	29:D1:1227:C:C6	2.59	0.70
29:D1:1358:C:O2	29:D1:1358:C:H2'	1.91	0.70
29:D1:1393:A:C8	29:D1:1418:A:C5	2.79	0.70
29:D1:1405:U:H2'	29:D1:1406:A:C8	2.21	0.70
29:D1:2150:G:C2'	29:D1:2151:C:H5"	2.20	0.70
29:D1:2249:G:O4'	29:D1:2272:G:H8	1.74	0.70
29:D1:2386:A:C8	29:D1:2994:A:N1	2.58	0.70
29:D1:2503:G:H2'	29:D1:2504:U:C6	2.26	0.70
29:D1:2661:G:H5'	29:D1:2749:G:N2	2.07	0.70
29:D1:3307:A:O5'	29:D1:3307:A:C8	2.39	0.70
30:D2:49:G:C8	30:D2:49:G:OP2	2.44	0.70
31:D3:88:A:H2'	31:D3:89:A:C6	2.27	0.70
34:DC:189:SER:O	34:DC:190:GLU:C	2.35	0.70
35:DD:130:ALA:O	35:DD:131:VAL:C	2.34	0.70
42:DK:133:ARG:N	42:DK:155:THR:H	1.89	0.70
72:DL:138:SER:C	72:DL:140:GLY:H	1.97	0.70
1:A1:65:A:H2	1:A1:84:A:H62	1.38	0.70
1:A1:269:G:C6	1:A1:287:G:N1	2.60	0.70
1:A1:825:U:O2'	1:A1:826:U:C6	2.44	0.70
1:A1:1118:G:O2'	1:A1:1119:G:O5'	2.09	0.70
1:A1:1244:A:C2	1:A1:1245:G:N9	2.60	0.70
1:A1:1765:A:H4'	1:A1:1766:A:OP2	1.91	0.70
29:B1:5:G:N2	31:B3:155:A:H1'	2.05	0.70
29:B1:247:C:H2'	29:B1:248:U:H4'	1.73	0.70
29:B1:592:A:O2'	29:B1:593:C:O2'	2.07	0.70
29:B1:743:C:H4'	47:BR:142:GLY:HA2	1.72	0.70
29:B1:1131:G:C2	29:B1:2373:A:C4	2.79	0.70
29:B1:1175:C:OP2	29:B1:1175:C:H3'	1.91	0.70
29:B1:1194:G:C2'	29:B1:1309:U:O2	2.40	0.70
29:B1:1471:U:H2'	29:B1:1472:U:H6	1.55	0.70
29:B1:1580:A:H3'	29:B1:1581:C:H5'	1.73	0.70
29:B1:1697:A:H2'	29:B1:1698:C:C5'	2.17	0.70
29:B1:1715:A:H3'	29:B1:1716:U:C5'	2.20	0.70
29:B1:2599:U:H2'	29:B1:2600:C:H6	1.57	0.70
29:B1:2640:A:C5	29:B1:2641:U:C5	2.79	0.70
29:B1:2676:A:H2	29:B1:2680:A:C2	2.09	0.70
29:B1:3110:C:H2'	29:B1:3111:U:H6	1.56	0.70
29:B1:3262:U:H2'	29:B1:3263:G:H8	1.56	0.70
29:B1:3268:A:H1'	29:B1:3269:U:P	2.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3393:U:C2'	29:B1:3394:U:H5'	2.21	0.70
31:B3:17:A:C4	31:B3:18:U:C5	2.79	0.70
49:BT:100:LYS:C	49:BT:102:ARG:H	1.96	0.70
1:C1:37:U:OP1	1:C1:531:C:O2'	2.09	0.70
1:C1:142:G:C8	1:C1:266:A:N1	2.59	0.70
1:C1:365:G:OP2	1:C1:365:G:H8	1.74	0.70
1:C1:1153:G:OP2	1:C1:1153:G:H8	1.75	0.70
1:C1:1756:A:C8	1:C1:1756:A:OP2	2.44	0.70
21:CT:255:ALA:HA	21:CT:260:ILE:HA	1.73	0.70
29:D1:219:A:C2	29:D1:1390:A:H2'	2.26	0.70
29:D1:421:G:N2	29:D1:2365:C:C1'	2.53	0.70
29:D1:637:C:C2	29:D1:638:C:C5	2.79	0.70
29:D1:676:G:H4'	29:D1:678:G:O3'	1.91	0.70
29:D1:773:G:C2'	29:D1:774:G:C8	2.71	0.70
29:D1:826:G:H21	29:D1:1589:A:N6	1.88	0.70
29:D1:1806:A:H2'	29:D1:1807:G:O4'	1.91	0.70
29:D1:1914:G:H5"	29:D1:1915:A:OP2	1.91	0.70
29:D1:2614:G:C2	29:D1:2797:C:C6	2.80	0.70
29:D1:2815:G:O2'	29:D1:2817:A:H2'	1.91	0.70
29:D1:2895:G:C2'	29:D1:2896:A:H5"	2.21	0.70
29:D1:3019:U:C5	29:D1:3020:U:C5	2.80	0.70
29:D1:3135:U:C6	29:D1:3136:G:N7	2.59	0.70
29:D1:3228:C:H3'	29:D1:3229:G:C8	2.25	0.70
29:D1:3317:U:H3'	29:D1:3317:U:P	2.31	0.70
29:D1:3323:A:C6	29:D1:3324:C:C4	2.79	0.70
30:D2:25:G:C4	30:D2:26:C:C5	2.80	0.70
31:D3:69:U:N1	31:D3:70:G:H1'	2.07	0.70
41:DJ:135:ILE:O	41:DJ:137:SER:N	2.25	0.70
1:A1:1240:U:C3'	1:A1:1241:G:H5'	2.20	0.70
1:A1:1272:U:H5"	1:A1:1273:G:OP2	1.91	0.70
1:A1:1579:U:C4	1:A1:1580:C:N4	2.59	0.70
1:A1:1594:G:C6	1:A1:1595:U:N3	2.60	0.70
1:A1:1683:C:OP2	1:A1:1683:C:H3'	1.91	0.70
16:AO:98:GLN:O	16:AO:100:GLY:N	2.25	0.70
20:AS:49:ASP:H	20:AS:50:ILE:CB	2.03	0.70
29:B1:11:A:C2'	29:B1:12:A:H5'	2.20	0.70
29:B1:115:A:C5	29:B1:116:A:N1	2.59	0.70
29:B1:504:A:H8	29:B1:504:A:C3'	1.98	0.70
29:B1:559:A:C2'	29:B1:560:G:H8	2.05	0.70
29:B1:563:U:H2'	29:B1:564:G:H4'	1.72	0.70
29:B1:722:G:O2'	29:B1:723:U:OP2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:730:C:C2’	29:B1:731:U:H5’	2.22	0.70
29:B1:1180:A:C2	29:B1:1182:A:C4	2.80	0.70
29:B1:1351:U:O2	29:B1:1352:A:C5	2.45	0.70
29:B1:1352:A:P	29:B1:1352:A:H8	2.14	0.70
29:B1:1901:A:OP2	29:B1:2919:A:OP1	2.10	0.70
29:B1:2912:G:C6	29:B1:2913:C:N3	2.60	0.70
29:B1:3291:G:H2’	29:B1:3292:A:C8	2.27	0.70
38:BG:29:GLU:O	38:BG:32:ALA:HB3	1.91	0.70
43:BN:107:GLU:O	43:BN:110:ALA:N	2.24	0.70
45:BP:18:ARG:O	45:BP:20:ALA:N	2.24	0.70
45:BP:63:ALA:HB2	45:BP:69:GLY:HA3	1.73	0.70
1:C1:336:G:H2’	1:C1:338:C:C5	2.26	0.70
1:C1:736:C:H2’	1:C1:737:A:H8	1.55	0.70
1:C1:1003:A:H1’	1:C1:1004:U:OP2	1.90	0.70
1:C1:1296:A:H2’	1:C1:1297:G:H5”	1.74	0.70
1:C1:1468:U:O2’	1:C1:1469:A:O5’	2.06	0.70
1:C1:1481:C:C5	1:C1:1482:C:C2	2.80	0.70
1:C1:1494:C:O2’	1:C1:1495:C:H5’	1.91	0.70
6:CE:111:THR:O	6:CE:113:VAL:N	2.24	0.70
29:D1:156:G:H1’	29:D1:157:A:H4’	1.73	0.70
29:D1:159:A:H2’	29:D1:160:G:C8	2.27	0.70
29:D1:305:U:O2’	29:D1:306:A:C8	2.44	0.70
29:D1:370:U:H5	29:D1:371:G:C5	2.08	0.70
29:D1:395:A:H8	29:D1:395:A:OP1	1.74	0.70
29:D1:660:A:N1	29:D1:1435:A:C2	2.59	0.70
29:D1:1088:U:H2’	29:D1:1089:G:C8	2.26	0.70
29:D1:1239:C:H2’	29:D1:1240:A:C8	2.26	0.70
29:D1:1416:C:O2	29:D1:1416:C:C2’	2.39	0.70
29:D1:1478:C:H6	29:D1:1478:C:H5”	1.56	0.70
29:D1:1687:U:H6	29:D1:1687:U:P	2.13	0.70
29:D1:1884:A:C4	29:D1:1885:U:N3	2.59	0.70
29:D1:2196:C:N4	29:D1:2242:A:N7	2.40	0.70
29:D1:2253:G:N7	29:D1:2254:U:C4	2.59	0.70
29:D1:2407:C:H1’	29:D1:2818:U:H3	1.56	0.70
29:D1:2846:U:H1’	74:D1:3570:OHX:N5	2.07	0.70
29:D1:2868:U:H2’	29:D1:2869:U:H6	1.56	0.70
29:D1:2883:U:C2	29:D1:2884:C:C5	2.79	0.70
29:D1:3245:A:O2’	29:D1:3246:G:O4’	2.09	0.70
29:D1:3309:G:C2	29:D1:3310:A:C8	2.80	0.70
30:D2:54:U:H2’	30:D2:54:U:O2	1.90	0.70
38:DG:47:ARG:O	38:DG:50:ALA:HB3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:127:G:O6	1:A1:179:A:N1	2.24	0.70
1:A1:272:U:O4	1:A1:284:G:O6	2.10	0.70
1:A1:1102:G:C2'	1:A1:1103:U:O5'	2.37	0.70
1:A1:1118:G:C2	1:A1:1119:G:C4	2.80	0.70
1:A1:1391:A:H5"	1:A1:1392:U:OP2	1.91	0.70
1:A1:1629:G:H2'	1:A1:1630:U:O4'	1.91	0.70
2:AA:182:LEU:O	2:AA:187:ALA:HA	1.92	0.70
4:AC:80:ALA:C	4:AC:82:GLY:H	2.00	0.70
5:AD:208:SER:CB	5:AD:209:TYR:HA	2.21	0.70
14:AM:60:SER:C	14:AM:62:ALA:N	2.48	0.70
29:B1:9:U:H2'	29:B1:10:C:H5'	1.73	0.70
29:B1:255:A:H2'	29:B1:256:G:C8	2.27	0.70
29:B1:285:A:C2	29:B1:305:U:O5'	2.44	0.70
29:B1:749:C:H2'	29:B1:750:G:H8	1.55	0.70
29:B1:910:G:C4	29:B1:911:C:C6	2.79	0.70
29:B1:1129:A:C6	29:B1:1130:A:N6	2.59	0.70
29:B1:1166:G:H2'	29:B1:1167:U:H5"	1.71	0.70
29:B1:1351:U:H2'	29:B1:1352:A:C5	2.27	0.70
29:B1:1354:G:H8	29:B1:1355:A:N1	1.89	0.70
29:B1:1435:A:C5'	29:B1:1436:U:H5"	2.17	0.70
29:B1:1740:U:C2'	29:B1:1741:A:H5'	2.22	0.70
29:B1:1812:G:H2'	29:B1:1812:G:N3	2.06	0.70
29:B1:2141:U:N3	29:B1:2956:A:C2	2.60	0.70
29:B1:3089:C:H3'	29:B1:3090:U:H5"	1.74	0.70
29:B1:3308:C:C5	29:B1:3309:G:C2	2.77	0.70
29:B1:3384:U:C4	29:B1:3385:U:O4	2.45	0.70
30:B2:64:A:H4'	30:B2:65:G:O5'	1.90	0.70
31:B3:34:U:H3'	31:B3:34:U:C2	2.26	0.70
31:B3:71:A:N6	31:B3:87:G:N7	2.40	0.70
37:BF:159:LEU:C	37:BF:161:ALA:H	1.99	0.70
46:BQ:33:ALA:O	46:BQ:35:ALA:N	2.23	0.70
1:C1:210:A:H2'	1:C1:211:U:C6	2.27	0.70
1:C1:575:C:C5'	1:C1:576:G:OP2	2.39	0.70
1:C1:623:A:H2	1:C1:1105:C:HO2'	1.36	0.70
1:C1:1219:A:C5'	1:C1:1220:C:H5	2.02	0.70
1:C1:1349:G:O2'	1:C1:1350:U:OP2	2.10	0.70
1:C1:1521:G:C6	74:C1:1930:OHX:N5	2.60	0.70
1:C1:1521:G:O6	74:C1:1930:OHX:N1	2.22	0.70
1:C1:1592:A:H2'	1:C1:1593:A:H8	1.55	0.70
1:C1:1719:A:H2'	1:C1:1720:G:N7	2.05	0.70
1:C1:1734:U:H2'	1:C1:1735:U:H6	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:498:A:H2'	29:D1:499:G:H8	1.54	0.70
29:D1:536:U:OP2	29:D1:536:U:H2'	1.92	0.70
29:D1:590:G:O2'	29:D1:591:G:P	2.50	0.70
29:D1:1037:C:HO2'	29:D1:1038:C:H6	1.36	0.70
29:D1:1401:A:H2'	29:D1:1402:C:H6	1.57	0.70
29:D1:1691:U:H2'	29:D1:1692:U:C6	2.27	0.70
29:D1:2113:A:C2'	29:D1:2114:C:H5'	2.21	0.70
29:D1:2389:C:O2'	29:D1:2390:A:H5'	1.91	0.70
29:D1:3161:C:O2	29:D1:3161:C:H2'	1.90	0.70
29:D1:3218:A:H4'	29:D1:3220:G:H8	1.56	0.70
29:D1:3376:A:H5"	29:D1:3376:A:N3	2.06	0.70
30:D2:25:G:N1	30:D2:26:C:N4	2.38	0.70
30:D2:34:C:O2	30:D2:34:C:C2'	2.37	0.70
1:A1:357:G:C5	1:A1:358:U:C5	2.79	0.70
1:A1:390:G:H22	1:A1:407:A:H61	1.37	0.70
1:A1:1132:A:C2	1:A1:1133:A:N7	2.60	0.70
1:A1:1310:U:H2'	1:A1:1311:U:H6	1.56	0.70
1:A1:1346:A:H2	15:AN:13:GLU:O	1.74	0.70
1:A1:1388:A:C6	1:A1:1411:A:C5	2.79	0.70
1:A1:1409:G:H2'	1:A1:1411:A:N7	2.07	0.70
1:A1:1558:U:H6	1:A1:1558:U:H3'	1.55	0.70
29:B1:67:A:C8	29:B1:317:A:H1'	2.27	0.70
29:B1:517:G:H3'	29:B1:517:G:P	2.29	0.70
29:B1:710:A:O2'	29:B1:711:A:H5'	1.91	0.70
29:B1:953:G:C8	29:B1:953:G:C3'	2.73	0.70
29:B1:1189:C:H4'	29:B1:1192:C:C5	2.22	0.70
29:B1:1260:A:H3'	29:B1:1261:G:N2	2.07	0.70
29:B1:1324:U:C6	29:B1:1324:U:H5'	2.27	0.70
29:B1:2137:U:OP1	29:B1:2137:U:H4'	1.92	0.70
29:B1:2146:C:C2'	29:B1:2147:A:C5'	2.69	0.70
29:B1:2259:A:H3'	29:B1:2260:U:H6	1.57	0.70
29:B1:2294:U:H2'	29:B1:2294:U:O2	1.92	0.70
29:B1:2348:A:H5'	29:B1:2349:U:OP2	1.92	0.70
29:B1:2780:A:H2'	29:B1:2781:U:C6	2.27	0.70
29:B1:2932:U:O2	29:B1:2932:U:C2'	2.40	0.70
29:B1:3001:C:O2'	29:B1:3002:C:H5'	1.91	0.70
29:B1:3063:C:O2'	29:B1:3064:U:H5'	1.92	0.70
29:B1:3214:U:OP2	29:B1:3215:A:OP2	2.09	0.70
31:B3:92:A:H2'	31:B3:92:A:N3	2.07	0.70
44:BO:157:LYS:C	44:BO:159:ARG:H	1.98	0.70
45:BP:81:TYR:O	45:BP:83:ALA:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:119:VAL:O	45:BP:120:VAL:O	2.09	0.70
1:C1:202:A:C6	1:C1:203:U:O4	2.45	0.70
1:C1:1456:C:H5"	1:C1:1457:C:C5'	2.22	0.70
15:CN:21:LYS:H	15:CN:92:ASP:HA	1.55	0.70
29:D1:130:A:C2	29:D1:131:C:N4	2.60	0.70
29:D1:155:G:OP2	29:D1:155:G:H8	1.74	0.70
29:D1:750:G:N1	29:D1:784:A:H1'	2.06	0.70
29:D1:760:G:H2'	29:D1:760:G:N3	2.04	0.70
29:D1:887:G:C6	29:D1:888:A:C6	2.80	0.70
29:D1:1315:U:O2	29:D1:1315:U:H2'	1.89	0.70
29:D1:1646:G:O2'	29:D1:1808:G:N2	2.21	0.70
29:D1:1838:G:H8	29:D1:1838:G:O5'	1.74	0.70
29:D1:1915:A:H2'	29:D1:1916:U:C6	2.27	0.70
29:D1:2234:G:O6	74:D1:3473:OHX:N5	2.25	0.70
29:D1:2896:A:H2'	29:D1:2897:A:H5"	1.74	0.70
29:D1:3198:U:C3'	29:D1:3199:G:C8	2.74	0.70
29:D1:3377:G:C1'	29:D1:3378:C:OP1	2.39	0.70
30:D2:121:U:H5"	36:DE:263:GLU:CB	2.22	0.70
30:D2:121:U:O3'	36:DE:266:ALA:HB3	1.91	0.70
31:D3:55:U:H2'	31:D3:56:G:C8	2.23	0.70
47:DR:57:ILE:C	47:DR:59:ARG:H	1.97	0.70
1:A1:228:G:O2'	1:A1:229:U:H6	1.75	0.70
1:A1:351:C:N3	7:AF:102:LYS:O	2.24	0.70
1:A1:813:U:O2	1:A1:813:U:H2'	1.90	0.70
1:A1:1203:A:H4'	1:A1:1204:A:OP2	1.92	0.70
1:A1:1334:U:H5"	1:A1:1335:U:OP2	1.91	0.70
1:A1:1764:C:H5'	1:A1:1764:C:C6	2.27	0.70
29:B1:683:U:C2'	29:B1:684:G:H5'	2.22	0.70
29:B1:995:U:O4	29:B1:2637:A:C4	2.45	0.70
29:B1:1192:C:H5'	29:B1:1298:C:OP1	1.91	0.70
29:B1:1288:U:O2	29:B1:1289:G:C8	2.45	0.70
29:B1:1543:G:OP1	44:BO:34:ASN:HA	1.92	0.70
29:B1:1830:G:H2'	29:B1:1831:U:H6	1.55	0.70
29:B1:2684:C:C2	29:B1:2685:C:C6	2.80	0.70
29:B1:2932:U:C2	29:B1:2934:A:OP2	2.45	0.70
29:B1:3060:C:O2'	29:B1:3331:U:O2	2.05	0.70
29:B1:3087:A:H2'	29:B1:3088:G:C8	2.27	0.70
29:B1:3111:U:H2'	29:B1:3112:G:H5'	1.73	0.70
29:B1:3204:C:H5'	43:BN:88:ALA:HB3	1.73	0.70
30:B2:60:G:H2'	30:B2:61:G:H8	1.56	0.70
30:B2:95:A:C2	30:B2:96:U:C2	2.80	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:69:U:H2'	31:B3:70:G:C1'	2.22	0.70
33:BB:171:GLY:CA	62:Bg:68:ALA:HB2	2.22	0.70
37:BF:86:ALA:HB1	37:BF:87:THR:CA	2.21	0.70
44:BO:79:ALA:H	44:BO:80:THR:CB	2.04	0.70
61:Bf:47:GLN:H	61:Bf:48:SER:HA	1.57	0.70
70:Bq:8:UNK:O	70:Bq:10:UNK:N	2.25	0.70
1:C1:272:U:H4'	1:C1:272:U:OP1	1.90	0.70
1:C1:315:A:C5	1:C1:350:U:H5	2.10	0.70
1:C1:973:A:O3'	29:D1:848:A:H1'	1.90	0.70
1:C1:1142:A:O2'	1:C1:1143:A:O4'	2.09	0.70
1:C1:1238:A:H2'	1:C1:1239:U:H5'	1.73	0.70
1:C1:1243:G:C6	1:C1:1244:A:N6	2.59	0.70
1:C1:1315:U:H5"	1:C1:1329:A:N3	2.07	0.70
1:C1:1657:U:H1'	1:C1:1658:G:OP2	1.91	0.70
9:CH:11:SER:CB	9:CH:12:GLN:HA	2.22	0.70
29:D1:12:A:H8	29:D1:12:A:OP2	1.75	0.70
29:D1:152:U:O2'	29:D1:153:U:H5'	1.91	0.70
29:D1:158:G:C6	29:D1:159:A:O2'	2.45	0.70
29:D1:280:U:C6	29:D1:282:G:OP2	2.45	0.70
29:D1:287:G:O2'	29:D1:288:C:H5'	1.92	0.70
29:D1:536:U:H1'	29:D1:537:A:OP2	1.90	0.70
29:D1:585:A:H3'	29:D1:586:C:H6	1.57	0.70
29:D1:834:U:H6	29:D1:834:U:C5'	2.05	0.70
29:D1:1543:G:OP1	44:DO:34:ASN:HA	1.92	0.70
29:D1:1884:A:C6	29:D1:1885:U:N3	2.58	0.70
29:D1:2553:U:H1'	29:D1:2554:A:H5'	1.72	0.70
29:D1:2846:U:O2	29:D1:2850:G:O6	2.09	0.70
29:D1:2997:G:N3	29:D1:2998:U:C5'	2.55	0.70
29:D1:3114:A:C5	29:D1:3115:C:C5	2.80	0.70
29:D1:3153:U:C4	29:D1:3160:U:H1'	2.27	0.70
29:D1:3174:A:OP2	29:D1:3174:A:H4'	1.91	0.70
29:D1:3181:C:O2	29:D1:3181:C:H2'	1.92	0.70
29:D1:3257:C:OP2	29:D1:3257:C:H6	1.75	0.70
30:D2:73:C:H42	30:D2:74:C:H41	1.38	0.70
31:D3:67:U:H3'	31:D3:68:G:C8	2.25	0.70
31:D3:106:C:O4'	31:D3:138:A:C8	2.45	0.70
35:DD:252:GLU:C	35:DD:254:ALA:H	1.97	0.70
37:DF:56:LYS:C	37:DF:58:LEU:H	1.99	0.70
1:A1:312:A:C2	1:A1:314:C:H2'	2.27	0.70
1:A1:438:A:O2'	1:A1:439:U:H5"	1.91	0.70
1:A1:518:A:N1	1:A1:535:A:N3	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1123:C:H5	1:A1:1124:A:C5	2.08	0.70
1:A1:1334:U:C2	1:A1:1335:U:C6	2.79	0.70
1:A1:1524:A:C2'	1:A1:1525:A:C8	2.72	0.70
1:A1:1592:A:C4	1:A1:1605:G:N2	2.59	0.70
1:A1:1614:A:C2	1:A1:1616:G:OP2	2.43	0.70
1:A1:1656:U:C5'	1:A1:1657:U:O5'	2.40	0.70
1:A1:1714:A:H2'	1:A1:1715:G:O4'	1.91	0.70
3:AB:160:GLY:C	3:AB:209:ASN:HA	2.16	0.70
15:AN:25:THR:HA	15:AN:90:TYR:HA	1.74	0.70
29:B1:536:U:H6	29:B1:536:U:P	2.13	0.70
29:B1:564:G:H3'	29:B1:565:U:C5	2.27	0.70
29:B1:1261:G:O2'	29:B1:1262:G:C5	2.45	0.70
29:B1:1689:U:C4	29:B1:1690:C:C5	2.79	0.70
29:B1:1857:C:H6	29:B1:1857:C:OP2	1.74	0.70
29:B1:2506:U:H2'	29:B1:2507:C:C5	2.26	0.70
29:B1:2513:U:C5	29:B1:2591:A:N1	2.58	0.70
29:B1:2713:U:H3'	61:Bf:9:LYS:O	1.91	0.70
29:B1:2897:A:C2	29:B1:2905:U:C2	2.79	0.70
29:B1:3135:U:C4	29:B1:3136:G:C5	2.80	0.70
29:B1:3215:A:P	29:B1:3218:A:H5"	2.32	0.70
29:B1:3280:U:OP2	29:B1:3280:U:H6	1.74	0.70
30:B2:13:A:OP2	30:B2:112:G:N2	2.21	0.70
30:B2:14:U:H2'	30:B2:15:C:O5'	1.92	0.70
34:BC:94:GLU:HA	34:BC:154:TYR:CB	2.21	0.70
38:BG:237:ASN:O	38:BG:240:VAL:N	2.25	0.70
41:BJ:184:LYS:C	41:BJ:186:GLU:H	2.00	0.70
47:BR:126:GLN:O	47:BR:128:ALA:N	2.23	0.70
1:C1:18:C:C2	1:C1:19:A:C8	2.80	0.70
1:C1:326:G:O6	1:C1:337:G:O6	2.08	0.70
1:C1:817:A:H5"	1:C1:818:C:OP2	1.91	0.70
1:C1:833:U:H3'	1:C1:834:G:C5'	2.22	0.70
1:C1:926:A:H2'	1:C1:927:C:H5'	1.74	0.70
1:C1:1118:G:C2	1:C1:1119:G:C4	2.79	0.70
1:C1:1158:C:H42	1:C1:1163:A:H61	1.37	0.70
4:CC:27:ARG:O	4:CC:29:LEU:N	2.25	0.70
17:CP:109:ARG:N	17:CP:110:LYS:CA	2.54	0.70
17:CP:131:SER:C	17:CP:133:LEU:HA	2.16	0.70
29:D1:344:A:C2	29:D1:345:G:H1'	2.27	0.70
29:D1:563:U:C2	29:D1:564:G:O4'	2.44	0.70
29:D1:573:C:C2	29:D1:574:U:C5	2.80	0.70
29:D1:959:C:H41	29:D1:2801:A:C5'	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1105:A:H2'	29:D1:1106:G:C8	2.25	0.70
29:D1:1174:G:O2'	29:D1:1175:C:H5'	1.91	0.70
29:D1:1199:C:H2'	29:D1:1199:C:O2	1.91	0.70
29:D1:1393:A:C8	29:D1:1418:A:C4	2.79	0.70
29:D1:1498:A:O2'	29:D1:1499:C:H5'	1.92	0.70
29:D1:1625:A:H3'	29:D1:1626:U:H5"	1.74	0.70
29:D1:2098:C:H2'	29:D1:2099:A:C8	2.26	0.70
29:D1:2135:U:H2'	29:D1:2136:C:H6	1.56	0.70
29:D1:2255:A:P	74:D1:3415:OHX:N2	2.65	0.70
29:D1:2289:U:C2'	29:D1:2290:C:H5'	2.22	0.70
29:D1:2299:A:H5'	29:D1:2299:A:H8	1.56	0.70
29:D1:2378:C:H2'	29:D1:2378:C:O2	1.91	0.70
29:D1:2424:A:H5"	29:D1:2425:G:OP2	1.91	0.70
29:D1:2665:U:N3	29:D1:2706:G:N1	2.40	0.70
29:D1:3013:U:C5'	29:D1:3013:U:C6	2.75	0.70
29:D1:3063:C:O2'	29:D1:3064:U:H5'	1.92	0.70
74:D1:3543:OHX:N3	38:DG:217:PRO:O	2.25	0.70
73:DM:100:ILE:O	73:DM:102:SER:N	2.23	0.70
47:DR:126:GLN:O	47:DR:128:ALA:N	2.22	0.70
1:A1:283:U:O3'	1:A1:284:G:H4'	1.92	0.70
1:A1:528:U:H4'	1:A1:529:A:O4'	1.91	0.70
1:A1:544:A:C2	1:A1:545:A:H8	2.09	0.70
1:A1:739:G:H2'	1:A1:740:A:C8	2.27	0.70
1:A1:1367:G:H5"	1:A1:1368:G:OP2	1.91	0.70
1:A1:1497:U:C2	1:A1:1498:G:C8	2.80	0.70
1:A1:1681:A:H5'	1:A1:1682:U:OP2	1.92	0.70
10:AI:17:TYR:CB	10:AI:18:ARG:CB	2.70	0.70
29:B1:115:A:C8	29:B1:116:A:C2	2.80	0.70
29:B1:416:A:C2	29:B1:417:A:C4	2.80	0.70
29:B1:423:A:H2'	29:B1:424:G:O5'	1.92	0.70
29:B1:504:A:C2	29:B1:587:U:C2	2.70	0.70
29:B1:542:G:H2'	29:B1:543:C:H6	1.54	0.70
29:B1:592:A:C2	29:B1:593:C:C2	2.80	0.70
29:B1:776:U:H5'	29:B1:777:U:H6	1.55	0.70
29:B1:785:G:C8	29:B1:785:G:OP1	2.45	0.70
29:B1:865:U:O4	29:B1:866:A:C6	2.45	0.70
29:B1:866:A:H8	29:B1:867:G:C8	2.09	0.70
29:B1:1063:G:C8	29:B1:1064:A:O4'	2.44	0.70
29:B1:1204:A:H62	29:B1:1300:G:H21	1.39	0.70
29:B1:1287:A:OP1	29:B1:1287:A:H4'	1.92	0.70
29:B1:1604:G:H8	29:B1:1605:A:H5"	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2294:U:O2	29:B1:2296:A:H2'	1.90	0.70
29:B1:2846:U:O2	29:B1:2850:G:O6	2.09	0.70
29:B1:3113:A:C2	29:B1:3122:A:C5	2.80	0.70
29:B1:3218:A:H2'	29:B1:3219:G:H3'	1.73	0.70
29:B1:3325:G:H2'	29:B1:3326:G:O4'	1.92	0.70
29:B1:3328:G:C2	29:B1:3375:A:N7	2.60	0.70
30:B2:40:C:O2	42:BK:69:VAL:HA	1.90	0.70
34:BC:2:SER:O	34:BC:4:ARG:N	2.24	0.70
34:BC:192:VAL:O	34:BC:195:ALA:HB3	1.92	0.70
45:BP:18:ARG:C	45:BP:20:ALA:H	1.97	0.70
57:Bb:83:GLU:C	57:Bb:85:LEU:N	2.40	0.70
66:Bl:15:UNK:O	66:Bl:18:UNK:N	2.24	0.70
1:C1:149:C:C2	1:C1:150:U:C5	2.80	0.70
1:C1:157:A:O2'	1:C1:158:U:H5'	1.92	0.70
1:C1:469:C:N3	1:C1:469:C:OP1	2.25	0.70
1:C1:509:G:C4	1:C1:510:G:N7	2.60	0.70
1:C1:686:C:C2'	1:C1:687:G:H8	1.97	0.70
1:C1:811:A:N3	1:C1:858:G:H1'	2.07	0.70
1:C1:1186:U:H2'	1:C1:1187:U:O4'	1.92	0.70
1:C1:1200:G:H5'	1:C1:1201:G:C8	2.26	0.70
1:C1:1515:A:H8	15:CN:58:LEU:CB	2.03	0.70
1:C1:1533:C:H3'	1:C1:1534:G:C8	2.27	0.70
4:CC:115:ILE:HA	4:CC:118:ALA:HB3	1.72	0.70
9:CH:22:SER:C	9:CH:24:ASN:N	2.49	0.70
21:CT:53:LYS:C	21:CT:55:GLY:H	2.00	0.70
29:D1:588:G:C6	29:D1:612:U:C5	2.80	0.70
29:D1:769:G:C2	29:D1:770:G:C4	2.80	0.70
29:D1:779:G:C4	29:D1:780:A:C8	2.80	0.70
29:D1:937:G:N2	29:D1:960:U:C5'	2.53	0.70
29:D1:1178:G:C2'	29:D1:1179:A:H5'	2.22	0.70
29:D1:1493:G:P	29:D1:1493:G:H21	2.15	0.70
29:D1:1580:A:H3'	29:D1:1581:C:H5'	1.73	0.70
29:D1:1713:G:C8	29:D1:1714:A:H2	2.09	0.70
29:D1:1851:G:H8	29:D1:1851:G:O5'	1.74	0.70
29:D1:1913:A:N3	29:D1:2120:A:C8	2.59	0.70
29:D1:2296:A:O2'	29:D1:2297:U:H5'	1.92	0.70
29:D1:2513:U:O2'	29:D1:2514:U:O5'	2.09	0.70
29:D1:3050:U:C5	29:D1:3051:U:C5	2.80	0.70
29:D1:3069:G:C2	29:D1:3070:A:N7	2.60	0.70
29:D1:3099:C:H6	29:D1:3099:C:H5'	1.57	0.70
29:D1:3303:G:C1'	29:D1:3304:U:H5'	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3316:A:N6	29:D1:3387:U:N3	2.40	0.70
33:DB:49:VAL:O	33:DB:50:HIS:O	2.10	0.70
36:DE:128:GLU:CB	36:DE:129:TYR:CA	2.69	0.70
41:DJ:174:THR:O	41:DJ:175:ASN:C	2.34	0.70
1:A1:26:A:H2	1:A1:600:U:C2	2.10	0.69
1:A1:350:U:C4'	1:A1:352:A:C8	2.75	0.69
1:A1:912:U:OP1	1:A1:912:U:H4'	1.91	0.69
1:A1:1274:C:H6	1:A1:1427:A:N6	1.87	0.69
1:A1:1468:U:O2'	1:A1:1469:A:O4'	2.10	0.69
1:A1:1689:A:N3	1:A1:1689:A:H2'	2.06	0.69
1:A1:1745:G:O2'	1:A1:1746:A:C8	2.45	0.69
29:B1:285:A:C2	29:B1:304:G:O3'	2.45	0.69
29:B1:431:U:O2'	29:B1:432:G:P	2.50	0.69
29:B1:594:U:O2	29:B1:594:U:C2'	2.39	0.69
29:B1:637:C:O2'	29:B1:638:C:H6	1.74	0.69
29:B1:698:U:C1'	29:B1:699:A:OP1	2.39	0.69
29:B1:1169:A:C2	29:B1:1330:A:C6	2.79	0.69
29:B1:1324:U:C5'	29:B1:1324:U:C6	2.73	0.69
29:B1:1448:U:C5	29:B1:2355:G:N2	2.57	0.69
29:B1:1644:C:C4	74:B1:3505:OHX:N1	2.60	0.69
29:B1:2287:C:N3	29:B1:2298:U:O2	2.25	0.69
29:B1:2673:A:H2	29:B1:2674:A:C6	2.09	0.69
29:B1:2697:A:H2'	29:B1:2698:G:C8	2.26	0.69
29:B1:2746:A:C6	29:B1:2747:A:C2	2.80	0.69
29:B1:2881:C:O2'	29:B1:2882:U:O4'	2.05	0.69
29:B1:2896:A:O2'	29:B1:2897:A:P	2.50	0.69
29:B1:3135:U:C5	29:B1:3136:G:N7	2.60	0.69
29:B1:3274:A:C1'	29:B1:3275:U:P	2.79	0.69
30:B2:12:U:C2'	30:B2:13:A:N1	2.55	0.69
30:B2:16:U:H2'	30:B2:17:A:C8	2.26	0.69
30:B2:98:C:O2	30:B2:98:C:H2'	1.90	0.69
30:B2:111:U:O3'	30:B2:112:G:O3'	2.10	0.69
31:B3:19:C:C5	31:B3:20:U:C5	2.79	0.69
31:B3:78:G:O6	31:B3:79:A:N6	2.25	0.69
31:B3:104:A:OP2	31:B3:105:A:H2'	1.91	0.69
34:BC:4:ARG:C	34:BC:6:TYR:H	2.00	0.69
38:BG:51:TYR:C	38:BG:53:LYS:H	2.00	0.69
1:C1:55:A:C2	1:C1:403:G:C5	2.80	0.69
1:C1:129:U:H5	1:C1:264:G:C5	2.10	0.69
1:C1:270:C:H3'	1:C1:271:A:H5"	1.73	0.69
1:C1:569:C:H1'	1:C1:583:C:H5'	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:606:A:C5	1:C1:608:U:C5	2.80	0.69
1:C1:746:A:H2'	1:C1:747:C:O4'	1.92	0.69
1:C1:807:A:C2	1:C1:808:U:C2	2.80	0.69
1:C1:824:G:C5'	1:C1:825:U:H5'	2.21	0.69
1:C1:830:U:H2'	1:C1:830:U:O2	1.91	0.69
1:C1:1259:U:O5'	1:C1:1259:U:C6	2.44	0.69
1:C1:1269:U:N3	1:C1:1432:U:O4'	2.24	0.69
1:C1:1614:A:C2	1:C1:1616:G:OP2	2.44	0.69
1:C1:1689:A:N3	1:C1:1689:A:H2'	2.06	0.69
22:Ca:5:UNK:O	22:Ca:6:UNK:C	2.40	0.69
29:D1:49:A:C6	29:D1:279:U:H4'	2.27	0.69
29:D1:299:G:O5'	29:D1:299:G:H8	1.74	0.69
29:D1:606:C:H3'	29:D1:607:A:H8	1.00	0.69
29:D1:1220:U:H3'	29:D1:1220:U:C6	2.27	0.69
29:D1:1640:G:H5"	29:D1:1738:C:OP1	1.92	0.69
29:D1:3108:G:C2	29:D1:3109:G:C8	2.80	0.69
29:D1:3210:A:C8	29:D1:3211:C:H5	2.10	0.69
29:D1:3390:G:C2	29:D1:3391:A:C4	2.80	0.69
30:D2:69:C:H2'	30:D2:69:C:O2	1.92	0.69
31:D3:69:U:H2'	31:D3:70:G:C4'	2.22	0.69
38:DG:74:SER:CB	38:DG:75:TYR:CA	2.69	0.69
1:A1:105:A:C2	74:A1:1910:OHX:N6	2.60	0.69
1:A1:217:A:H1'	1:A1:218:A:H5'	1.72	0.69
1:A1:410:A:C2	1:A1:411:C:C2	2.80	0.69
1:A1:1104:U:C5	1:A1:1105:C:C5	2.80	0.69
1:A1:1137:A:C2	1:A1:1138:A:C5	2.80	0.69
1:A1:1356:U:H2'	1:A1:1357:A:C8	2.25	0.69
1:A1:1481:C:H4'	1:A1:1482:C:OP1	1.91	0.69
1:A1:1746:A:H1'	29:B1:2291:A:H1'	1.74	0.69
1:A1:1780:G:C1'	29:B1:2262:A:O2'	2.35	0.69
9:AH:11:SER:CB	9:AH:12:GLN:HA	2.22	0.69
11:AJ:81:ILE:O	11:AJ:84:ALA:HB3	1.92	0.69
29:B1:226:C:H2'	29:B1:227:G:O4'	1.91	0.69
29:B1:413:U:C2	29:B1:414:U:C5	2.80	0.69
29:B1:723:U:H2'	29:B1:724:U:C5'	2.21	0.69
29:B1:744:A:C5	29:B1:745:C:C4	2.80	0.69
29:B1:807:A:H3'	29:B1:807:A:H8	1.56	0.69
29:B1:1119:C:C2	29:B1:1120:A:C8	2.80	0.69
29:B1:1838:G:H8	29:B1:1838:G:O5'	1.75	0.69
29:B1:2095:G:C2'	29:B1:2096:A:H5'	2.22	0.69
29:B1:2168:A:N1	29:B1:2170:U:H1'	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2295:A:N6	29:B1:2296:A:N6	2.40	0.69
29:B1:2596:U:H2'	29:B1:2597:U:C6	2.27	0.69
29:B1:2677:G:N1	29:B1:2679:A:C5	2.60	0.69
29:B1:2703:A:C3'	29:B1:2704:A:H5'	2.21	0.69
29:B1:2872:A:H4'	29:B1:2873:U:OP1	1.91	0.69
29:B1:3041:U:O2'	29:B1:3042:U:H5'	1.92	0.69
29:B1:3282:U:O2	29:B1:3283:U:C5	2.45	0.69
29:B1:3324:C:H2'	29:B1:3325:G:C8	2.22	0.69
30:B2:75:G:OP1	74:B2:201:OHX:N2	2.25	0.69
39:BH:194:THR:CB	39:BH:195:SER:CA	2.70	0.69
59:Bd:4:GLY:O	59:Bd:5:THR:C	2.36	0.69
71:Br:3:UNK:HA	71:Br:6:UNK:CB	2.21	0.69
1:C1:379:U:OP2	1:C1:380:U:OP2	2.11	0.69
1:C1:590:C:H2'	1:C1:591:A:C8	2.27	0.69
1:C1:867:G:C4	1:C1:868:G:C8	2.80	0.69
1:C1:1124:A:O2'	1:C1:1125:A:H5'	1.93	0.69
1:C1:1246:C:C5	1:C1:1247:U:C5	2.79	0.69
1:C1:1391:A:H2'	1:C1:1392:U:C6	2.26	0.69
1:C1:1409:G:H2'	1:C1:1411:A:N7	2.07	0.69
1:C1:1583:A:N3	1:C1:1585:U:N3	2.40	0.69
1:C1:1616:G:O2'	1:C1:1617:U:H5'	1.91	0.69
1:C1:1754:A:H1'	1:C1:1755:A:C2	2.27	0.69
11:CJ:35:PRO:C	11:CJ:37:THR:H	2.00	0.69
16:CO:98:GLN:O	16:CO:100:GLY:N	2.24	0.69
29:D1:64:G:H22	29:D1:322:U:H2'	1.55	0.69
29:D1:144:A:H2'	29:D1:145:G:O4'	1.92	0.69
29:D1:221:A:C2	29:D1:224:C:C5	2.80	0.69
29:D1:400:G:H5"	29:D1:403:C:O2'	1.92	0.69
29:D1:597:G:C2	29:D1:598:A:C4	2.81	0.69
29:D1:680:G:H5"	29:D1:681:U:OP2	1.92	0.69
29:D1:712:G:H21	29:D1:753:C:P	2.16	0.69
29:D1:1317:A:H8	29:D1:1317:A:H5'	1.57	0.69
29:D1:2287:C:O2	29:D1:2298:U:O2	2.11	0.69
29:D1:2359:C:H2'	29:D1:2360:C:C6	2.27	0.69
29:D1:3299:A:N3	29:D1:3300:U:C6	2.61	0.69
29:D1:3322:A:N6	29:D1:3323:A:N6	2.40	0.69
30:D2:1:G:H2'	30:D2:1:G:N3	2.05	0.69
33:DB:78:ALA:O	33:DB:80:GLU:N	2.25	0.69
37:DF:21:THR:H	37:DF:112:THR:HA	1.55	0.69
73:DM:53:MET:CB	73:DM:85:GLY:HA2	2.22	0.69
43:DN:89:ALA:O	43:DN:90:VAL:C	2.35	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:17:C:C2	1:A1:18:C:C5	2.81	0.69
1:A1:29:U:H2'	1:A1:30:G:H8	1.57	0.69
1:A1:243:G:H2'	1:A1:244:A:C8	2.22	0.69
1:A1:1075:C:C4	1:A1:1076:A:C6	2.80	0.69
1:A1:1097:U:C2'	1:A1:1098:U:H5'	2.21	0.69
1:A1:1778:G:N1	1:A1:1779:U:C4	2.60	0.69
17:AP:127:VAL:CB	17:AP:129:GLY:H	2.06	0.69
24:Ac:12:UNK:HA	24:Ac:13:UNK:CB	2.22	0.69
29:B1:190:U:H5'	29:B1:191:U:OP1	1.91	0.69
29:B1:586:C:O2	29:B1:586:C:H2'	1.92	0.69
29:B1:590:G:O2'	29:B1:591:G:P	2.50	0.69
29:B1:649:A:N3	29:B1:650:C:C5	2.60	0.69
29:B1:759:U:N3	29:B1:773:G:C5	2.60	0.69
29:B1:769:G:C2	29:B1:770:G:C4	2.80	0.69
29:B1:880:G:N9	29:B1:882:A:N7	2.41	0.69
29:B1:917:A:C2	29:B1:918:C:C2	2.79	0.69
29:B1:1377:G:C2	29:B1:1378:U:C5	2.80	0.69
29:B1:1468:A:H2'	29:B1:1469:C:C6	2.26	0.69
29:B1:1658:G:C6	29:B1:1796:G:O6	2.44	0.69
29:B1:2102:U:H2'	29:B1:2103:U:C6	2.27	0.69
29:B1:2196:C:N4	29:B1:2242:A:N7	2.40	0.69
29:B1:2592:G:O6	74:B1:3449:OHX:N4	2.25	0.69
29:B1:2877:G:H2'	29:B1:2878:G:O4'	1.90	0.69
29:B1:2963:C:C2'	29:B1:2964:G:H5'	2.22	0.69
29:B1:3026:G:C2	29:B1:3030:G:C6	2.80	0.69
29:B1:3049:A:C2	34:BC:75:ALA:HB2	2.27	0.69
29:B1:3065:G:H2'	29:B1:3066:U:H6	1.56	0.69
29:B1:3211:C:H2'	29:B1:3212:C:C6	2.26	0.69
29:B1:3299:A:O2'	29:B1:3300:U:OP1	2.08	0.69
29:B1:3386:G:H3'	29:B1:3386:G:C8	2.28	0.69
30:B2:46:A:OP2	30:B2:46:A:C6	2.45	0.69
36:BE:128:GLU:CB	36:BE:129:TYR:CA	2.71	0.69
45:BP:14:HIS:HA	45:BP:122:GLN:O	1.92	0.69
49:BT:50:LYS:C	49:BT:52:MET:H	1.98	0.69
1:C1:560:U:H2'	1:C1:561:G:H8	1.57	0.69
1:C1:912:U:H4'	1:C1:912:U:OP1	1.90	0.69
1:C1:951:A:H2'	1:C1:952:A:O5'	1.92	0.69
1:C1:1000:C:C5	1:C1:1003:A:OP2	2.42	0.69
1:C1:1175:U:H3	1:C1:1464:G:H1	1.39	0.69
1:C1:1625:C:H2'	1:C1:1626:U:H6	1.56	0.69
1:C1:1714:A:H2'	1:C1:1715:G:O4'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1733:C:C4	1:C1:1734:U:C4	2.80	0.69
20:CS:21:CYS:O	20:CS:23:VAL:O	2.10	0.69
29:D1:186:U:H5"	29:D1:187:A:OP2	1.91	0.69
29:D1:510:G:N2	29:D1:511:G:H1'	2.07	0.69
29:D1:516:A:H3'	29:D1:517:G:N7	2.07	0.69
29:D1:608:A:H2'	29:D1:609:G:O5'	1.93	0.69
29:D1:1129:A:N6	29:D1:1130:A:N6	2.40	0.69
29:D1:1196:C:C6	29:D1:1197:A:N7	2.60	0.69
29:D1:1209:G:H2'	29:D1:1210:U:C6	2.27	0.69
29:D1:1453:A:C1'	29:D1:1850:A:C2	2.75	0.69
29:D1:1608:C:C2'	29:D1:1609:C:H5'	2.22	0.69
29:D1:1623:G:C2	29:D1:1624:G:H1'	2.26	0.69
29:D1:2395:G:H2'	29:D1:2396:G:C5'	2.22	0.69
29:D1:2716:U:C3'	29:D1:2717:U:H5"	2.21	0.69
29:D1:2776:C:H5'	29:D1:2777:G:C5'	2.22	0.69
29:D1:3117:C:C2'	29:D1:3118:C:H5'	2.16	0.69
34:DC:236:LYS:O	34:DC:237:LYS:C	2.35	0.69
41:DJ:155:ALA:O	41:DJ:158:LYS:N	2.24	0.69
63:Dh:14:UNK:CB	63:Dh:14:UNK:HA	2.13	0.69
1:A1:14:C:OP2	3:AB:162:CYS:C	2.35	0.69
1:A1:142:G:C5	1:A1:266:A:C6	2.80	0.69
1:A1:336:G:H2'	1:A1:338:C:C5	2.27	0.69
1:A1:1043:A:H2'	1:A1:1044:U:C5	2.28	0.69
1:A1:1099:U:C6	1:A1:1100:G:C6	2.80	0.69
1:A1:1185:U:O2'	1:A1:1456:C:H4'	1.93	0.69
1:A1:1207:C:O2	1:A1:1455:G:N1	2.25	0.69
1:A1:1363:U:H2'	1:A1:1364:G:C8	2.28	0.69
1:A1:1378:U:C5'	1:A1:1379:C:H6	2.06	0.69
1:A1:1526:A:OP2	1:A1:1527:C:H5	1.75	0.69
2:AA:139:VAL:O	2:AA:141:ILE:N	2.26	0.69
8:AG:88:LEU:C	8:AG:90:TYR:H	1.99	0.69
21:AT:53:LYS:C	21:AT:55:GLY:H	2.00	0.69
29:B1:23:A:H2'	29:B1:23:A:N3	2.07	0.69
29:B1:70:A:H2	29:B1:71:A:O2'	1.73	0.69
29:B1:219:A:H2	29:B1:1390:A:H2'	1.55	0.69
29:B1:522:A:H3'	29:B1:523:A:H5"	1.74	0.69
29:B1:591:G:N2	29:B1:592:A:C4	2.60	0.69
29:B1:715:A:H3'	54:BY:115:LYS:CB	2.23	0.69
29:B1:882:A:H2'	29:B1:883:A:H5"	1.73	0.69
29:B1:887:G:H2'	29:B1:888:A:H8	1.57	0.69
29:B1:983:A:C2	29:B1:985:U:C4	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1144:U:O5’	29:B1:1144:U:H6	1.75	0.69
29:B1:1178:G:N7	29:B1:1179:A:C6	2.61	0.69
29:B1:1280:C:H2’	29:B1:1281:G:H8	1.52	0.69
29:B1:1323:G:H3’	29:B1:1324:U:C5’	2.16	0.69
29:B1:1393:A:C8	29:B1:1418:A:C5	2.80	0.69
29:B1:1450:G:O5’	29:B1:1450:G:C8	2.46	0.69
29:B1:2098:C:H2’	29:B1:2099:A:C8	2.27	0.69
29:B1:2253:G:C8	29:B1:2254:U:C5	2.81	0.69
29:B1:2393:G:N1	29:B1:2982:A:C2	2.56	0.69
29:B1:2571:U:H3’	29:B1:2572:C:H6	1.58	0.69
29:B1:2997:G:H1’	29:B1:2998:U:C5’	2.22	0.69
29:B1:3297:U:C2	29:B1:3298:C:C6	2.80	0.69
30:B2:9:C:C2’	30:B2:13:A:N6	2.54	0.69
30:B2:88:G:H2’	30:B2:89:G:H8	1.58	0.69
36:BE:43:LYS:N	49:BT:69:LYS:C	2.50	0.69
41:BJ:37:GLY:HA3	41:BJ:86:HIS:H	1.57	0.69
42:BK:18:VAL:HA	42:BK:70:THR:CB	2.22	0.69
56:Ba:54:GLU:HA	56:Ba:57:GLN:CB	2.21	0.69
70:Bq:13:UNK:O	70:Bq:14:UNK:C	2.38	0.69
1:C1:10:G:C5	1:C1:1633:A:C2	2.79	0.69
1:C1:35:U:O2’	1:C1:36:C:H5’	1.92	0.69
1:C1:50:C:C4	1:C1:424:C:C5	2.80	0.69
1:C1:267:U:O2	1:C1:267:U:C2’	2.40	0.69
1:C1:396:G:H22	1:C1:399:A:H5”	1.58	0.69
1:C1:643:G:C2	1:C1:692:C:N3	2.60	0.69
1:C1:710:U:C2	1:C1:729:G:C2	2.81	0.69
1:C1:742:U:HO2’	1:C1:744:U:H5	1.41	0.69
1:C1:833:U:H2’	1:C1:833:U:O2	1.93	0.69
6:CE:106:GLU:HA	6:CE:111:THR:CB	2.23	0.69
29:D1:346:C:H41	29:D1:348:A:H3’	1.53	0.69
29:D1:592:A:C6	29:D1:593:C:C6	2.79	0.69
29:D1:776:U:C5’	29:D1:777:U:H6	2.06	0.69
29:D1:1382:G:H2’	29:D1:1383:G:O4’	1.92	0.69
29:D1:1495:U:H3’	29:D1:1496:C:H5’	1.74	0.69
29:D1:1618:G:H4’	31:D3:129:C:H1’	1.74	0.69
29:D1:1914:G:H3’	29:D1:1915:A:C8	2.27	0.69
29:D1:2155:G:H2’	29:D1:2156:C:C6	2.26	0.69
29:D1:2300:G:O2’	29:D1:2328:U:H1’	1.92	0.69
29:D1:2812:C:H2’	29:D1:2813:A:C8	2.23	0.69
29:D1:3096:C:H2’	29:D1:3097:C:C6	2.27	0.69
29:D1:3303:G:H1’	29:D1:3304:U:O5’	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:34:U:H3'	31:D3:34:U:C2	2.26	0.69
45:DP:14:HIS:HA	45:DP:122:GLN:O	1.91	0.69
65:Dk:7:UNK:O	65:Dk:8:UNK:C	2.39	0.69
1:A1:55:A:O2'	1:A1:56:U:O5'	2.08	0.69
1:A1:61:A:H4'	1:A1:62:A:H3'	1.74	0.69
1:A1:310:C:C2'	1:A1:311:U:O5'	2.41	0.69
1:A1:498:G:H1'	1:A1:499:U:H5	1.57	0.69
1:A1:879:G:O2'	1:A1:880:C:H5'	1.92	0.69
1:A1:1003:A:N7	1:A1:1005:A:N1	2.39	0.69
1:A1:1364:G:H3'	1:A1:1365:C:H5'	1.72	0.69
1:A1:1481:C:C5	1:A1:1482:C:C2	2.80	0.69
1:A1:1558:U:OP2	1:A1:1559:A:H5'	1.92	0.69
5:AD:108:LEU:C	5:AD:110:ALA:H	1.99	0.69
17:AP:132:LEU:CB	17:AP:134:ALA:O	2.40	0.69
29:B1:88:A:N3	29:B1:89:A:H1'	2.07	0.69
29:B1:581:U:O2'	29:B1:582:G:H5'	1.93	0.69
29:B1:836:A:C6	29:B1:837:A:N7	2.60	0.69
29:B1:1023:C:H3'	29:B1:1024:G:C4'	2.21	0.69
29:B1:1174:G:C2	29:B1:1175:C:C6	2.81	0.69
29:B1:1913:A:C4	29:B1:2120:A:N7	2.59	0.69
29:B1:2218:G:O2'	29:B1:2219:A:H5'	1.92	0.69
29:B1:2583:C:H4'	29:B1:2583:C:OP1	1.92	0.69
29:B1:3212:C:N3	29:B1:3213:A:C2	2.59	0.69
29:B1:3249:C:H2'	29:B1:3249:C:O2	1.90	0.69
29:B1:3377:G:C2'	29:B1:3378:C:OP1	2.40	0.69
29:B1:3395:G:O2'	29:B1:3396:U:P	2.51	0.69
30:B2:25:G:C4	30:B2:26:C:C5	2.80	0.69
30:B2:74:C:O3'	74:B2:201:OHX:N6	2.25	0.69
30:B2:90:U:C4	30:B2:91:G:C5	2.80	0.69
31:B3:88:A:H2'	31:B3:89:A:C6	2.27	0.69
36:BE:238:ASP:O	36:BE:239:ILE:C	2.35	0.69
45:BP:194:LEU:O	45:BP:198:GLY:N	2.26	0.69
52:BW:88:MET:C	52:BW:90:ALA:H	2.01	0.69
53:BX:18:ALA:O	53:BX:22:ALA:HB2	1.92	0.69
1:C1:28:A:H2'	1:C1:29:U:H6	1.50	0.69
1:C1:167:U:H6	1:C1:167:U:H5'	1.58	0.69
1:C1:243:G:C6	1:C1:250:C:N4	2.58	0.69
1:C1:498:G:H1'	1:C1:499:U:H5	1.56	0.69
1:C1:623:A:H3'	1:C1:623:A:OP2	1.93	0.69
1:C1:639:U:P	23:Cb:72:UNK:HA	2.33	0.69
1:C1:931:C:H3'	1:C1:932:U:H2'	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:986:G:H2'	1:C1:987:G:H8	1.57	0.69
1:C1:1092:A:C4	1:C1:1094:G:N7	2.59	0.69
1:C1:1363:U:H2'	1:C1:1364:G:C8	2.28	0.69
1:C1:1575:G:OP1	1:C1:1575:G:H4'	1.91	0.69
1:C1:1712:A:H2'	1:C1:1713:G:C8	2.26	0.69
8:CG:49:GLN:HA	8:CG:50:ILE:CB	2.22	0.69
29:D1:523:A:C5	29:D1:524:U:C5	2.79	0.69
29:D1:550:A:H2'	29:D1:551:A:C8	2.27	0.69
29:D1:1119:C:H1'	29:D1:1154:A:N3	2.06	0.69
29:D1:1226:G:C4	29:D1:1227:C:C5	2.80	0.69
29:D1:1415:U:C2	29:D1:1416:C:C5	2.79	0.69
29:D1:1745:C:H2'	29:D1:1746:U:C6	2.28	0.69
29:D1:2168:A:N1	29:D1:2170:U:H1'	2.05	0.69
29:D1:2294:U:C5'	29:D1:2295:A:OP2	2.40	0.69
29:D1:2667:A:N6	29:D1:2690:G:C2	2.57	0.69
29:D1:2697:A:H2'	29:D1:2698:G:C8	2.26	0.69
29:D1:3152:U:H4'	29:D1:3153:U:OP2	1.92	0.69
29:D1:3271:G:N3	29:D1:3271:G:C2'	2.56	0.69
29:D1:3375:A:H4'	29:D1:3375:A:OP2	1.92	0.69
29:D1:3393:U:H6	29:D1:3393:U:O5'	1.75	0.69
31:D3:17:A:C4	31:D3:18:U:C5	2.81	0.69
31:D3:92:A:H2'	31:D3:92:A:N3	2.07	0.69
45:DP:60:LYS:O	45:DP:61:ALA:O	2.09	0.69
45:DP:124:LEU:CA	45:DP:126:VAL:H	2.03	0.69
1:A1:84:A:H2'	1:A1:85:A:C5'	2.13	0.69
1:A1:329:G:N3	1:A1:330:G:C8	2.61	0.69
1:A1:539:G:N2	1:A1:543:C:N3	2.41	0.69
1:A1:825:U:C4	1:A1:847:A:N6	2.58	0.69
1:A1:871:G:C4	1:A1:872:G:C8	2.80	0.69
1:A1:978:A:N1	1:A1:1024:U:O2	2.26	0.69
1:A1:986:G:C2'	1:A1:987:G:H8	2.05	0.69
1:A1:1364:G:H2'	1:A1:1365:C:H5'	1.74	0.69
1:A1:1429:G:C4	1:A1:1430:U:C5	2.79	0.69
1:A1:1684:U:O4	1:A1:1721:A:C2	2.44	0.69
1:A1:1685:G:N2	1:A1:1718:G:H21	1.90	0.69
1:A1:1760:G:C4	1:A1:1761:U:H5	2.10	0.69
9:AH:22:SER:C	9:AH:24:ASN:N	2.50	0.69
29:B1:72:C:C2	29:B1:73:C:O4'	2.46	0.69
29:B1:306:A:H2'	29:B1:306:A:N3	2.07	0.69
29:B1:349:A:C2	31:B3:24:G:N9	2.60	0.69
29:B1:1130:A:O2'	29:B1:1131:G:H3'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1286:A:C2	29:B1:1287:A:H1'	2.27	0.69
29:B1:1405:U:C5	29:B1:1406:A:N7	2.61	0.69
29:B1:1621:A:O2'	29:B1:1622:U:H5'	1.93	0.69
29:B1:2285:C:H5	29:B1:2286:U:N3	1.90	0.69
29:B1:2555:G:H2'	29:B1:2555:G:N3	2.07	0.69
29:B1:2626:A:C8	29:B1:2644:C:H5'	2.27	0.69
29:B1:2716:U:H5'	29:B1:2717:U:OP2	1.91	0.69
29:B1:2834:G:O2'	29:B1:2835:U:O5'	2.08	0.69
29:B1:3069:G:C2	29:B1:3070:A:N7	2.61	0.69
29:B1:3093:C:H6	29:B1:3093:C:H5'	1.57	0.69
29:B1:3271:G:N3	29:B1:3271:G:C2'	2.54	0.69
29:B1:3393:U:O5'	29:B1:3393:U:H6	1.75	0.69
30:B2:73:C:H42	30:B2:74:C:N4	1.90	0.69
30:B2:74:C:O3'	74:B2:201:OHX:N5	2.25	0.69
30:B2:113:C:O2'	30:B2:114:U:O4'	2.09	0.69
36:BE:97:ALA:CA	36:BE:100:ALA:HB3	2.16	0.69
42:BK:55:ARG:O	42:BK:57:PHE:N	2.26	0.69
48:BS:59:SER:O	48:BS:61:SER:N	2.23	0.69
64:Bi:5:UNK:O	64:Bi:8:UNK:N	2.25	0.69
1:C1:26:A:H2	1:C1:600:U:C2	2.10	0.69
1:C1:58:U:O2	1:C1:58:U:H2'	1.93	0.69
1:C1:207:U:C2	1:C1:208:U:C5	2.80	0.69
1:C1:809:A:C2	1:C1:810:G:N1	2.60	0.69
1:C1:912:U:H1'	1:C1:914:G:O6	1.92	0.69
1:C1:1005:A:N7	1:C1:1006:C:C4	2.61	0.69
1:C1:1159:C:H3'	1:C1:1160:A:H5'	1.74	0.69
1:C1:1239:U:C5	1:C1:1241:G:C6	2.80	0.69
1:C1:1472:C:H5	1:C1:1474:G:C2	2.11	0.69
3:CB:118:ALA:HB2	3:CB:124:ALA:HB2	1.73	0.69
12:CK:12:ALA:HA	12:CK:15:ALA:HB3	1.72	0.69
29:D1:52:A:H2'	29:D1:53:G:O5'	1.93	0.69
29:D1:423:A:OP1	29:D1:2363:A:H4'	1.93	0.69
29:D1:575:G:C5'	29:D1:575:G:H8	2.00	0.69
29:D1:582:G:C2	29:D1:583:G:C8	2.81	0.69
29:D1:759:U:H2'	29:D1:760:G:H5"	1.74	0.69
29:D1:770:G:H2'	29:D1:771:A:O4'	1.93	0.69
29:D1:829:U:O2'	29:D1:866:A:N1	2.22	0.69
29:D1:900:G:H1'	29:D1:1589:A:H61	1.58	0.69
29:D1:1103:A:HO2'	29:D1:1104:G:P	2.15	0.69
29:D1:1389:G:HO2'	29:D1:1390:A:P	2.14	0.69
29:D1:1424:C:C4	29:D1:1425:U:C5	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1478:C:H6	29:D1:1478:C:C5’	2.06	0.69
29:D1:1900:A:N3	29:D1:1906:G:C8	2.61	0.69
29:D1:3028:G:O2’	29:D1:3029:A:O4’	2.08	0.69
29:D1:3058:U:OP1	29:D1:3058:U:H3’	1.92	0.69
29:D1:3144:G:C5	74:D1:3431:OHX:N5	2.61	0.69
29:D1:3328:G:N2	29:D1:3375:A:N7	2.39	0.69
29:D1:3377:G:C4	74:D1:3452:OHX:N2	2.60	0.69
31:D3:67:U:H2’	31:D3:68:G:C8	2.27	0.69
34:DC:51:ALA:HB2	34:DC:79:VAL:HA	1.74	0.69
34:DC:106:TRP:O	34:DC:108:GLU:N	2.25	0.69
46:DQ:52:LEU:H	46:DQ:54:HIS:H	1.40	0.69
1:A1:177:U:OP2	1:A1:177:U:H6	1.76	0.69
1:A1:321:C:C2’	1:A1:322:G:H5’	2.23	0.69
1:A1:388:G:C2	1:A1:389:G:C8	2.80	0.69
1:A1:390:G:N2	1:A1:391:A:C5	2.60	0.69
1:A1:468:A:N6	1:A1:595:G:C6	2.59	0.69
1:A1:515:A:H2’	1:A1:516:G:OP1	1.92	0.69
1:A1:862:A:C8	1:A1:963:A:C6	2.80	0.69
1:A1:1114:G:O2’	1:A1:1115:U:OP2	2.11	0.69
1:A1:1533:C:H3’	1:A1:1534:G:C8	2.27	0.69
1:A1:1670:G:N2	1:A1:1732:A:N6	2.41	0.69
74:A1:1913:OHX:N1	74:A1:1986:OHX:N3	2.40	0.69
28:Ah:16:UNK:O	28:Ah:20:UNK:CB	2.41	0.69
29:B1:59:G:O3’	29:B1:60:A:H4’	1.93	0.69
29:B1:82:C:H2’	29:B1:83:U:O5’	1.93	0.69
29:B1:563:U:C4	29:B1:564:G:C8	2.80	0.69
29:B1:683:U:H2’	29:B1:684:G:H5’	1.74	0.69
29:B1:742:G:C2’	29:B1:743:C:H5”	2.21	0.69
29:B1:826:G:H2’	29:B1:827:A:C8	2.25	0.69
29:B1:836:A:C8	29:B1:836:A:OP2	2.45	0.69
29:B1:987:U:H2’	29:B1:988:U:C6	2.27	0.69
29:B1:1093:A:H2’	29:B1:1094:U:C2	2.27	0.69
29:B1:1302:A:H1’	29:B1:2887:A:C2	2.27	0.69
29:B1:1550:C:O2’	29:B1:1551:C:H5’	1.93	0.69
29:B1:1811:G:C6	29:B1:1812:G:C8	2.81	0.69
29:B1:2491:A:H2’	29:B1:2492:C:O4’	1.92	0.69
29:B1:2837:A:C8	29:B1:2845:A:C2	2.81	0.69
29:B1:3102:G:H2’	29:B1:3103:A:O4’	1.93	0.69
29:B1:3331:U:C2’	29:B1:3332:U:H5’	2.23	0.69
30:B2:79:A:O2’	30:B2:80:G:H5’	1.93	0.69
34:BC:131:THR:O	34:BC:132:LYS:O	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:166:ILE:O	34:BC:168:LYS:N	2.25	0.69
35:BD:85:SER:C	35:BD:87:GLN:H	2.01	0.69
37:BF:121:LEU:O	37:BF:123:PRO:N	2.26	0.69
61:Bf:39:GLY:O	61:Bf:43:TYR:CB	2.41	0.69
1:C1:29:U:H2'	1:C1:30:G:H8	1.58	0.69
1:C1:445:A:H1'	1:C1:524:U:H4'	1.73	0.69
1:C1:687:G:N2	1:C1:688:G:C4	2.61	0.69
1:C1:942:G:OP1	1:C1:977:A:H1'	1.91	0.69
1:C1:1140:G:C2	1:C1:1141:G:C8	2.81	0.69
1:C1:1147:A:H2'	1:C1:1148:C:C6	2.27	0.69
1:C1:1209:C:C2	1:C1:1455:G:N2	2.61	0.69
1:C1:1221:A:O2'	1:C1:1222:C:H5'	1.92	0.69
1:C1:1455:G:C4	1:C1:1456:C:N3	2.61	0.69
1:C1:1722:A:C8	1:C1:1723:U:C6	2.80	0.69
11:CJ:50:GLU:O	11:CJ:54:LEU:CB	2.41	0.69
16:CO:54:ASP:CA	16:CO:59:GLY:HA2	2.21	0.69
29:D1:40:A:N7	29:D1:937:G:C5	2.60	0.69
29:D1:509:U:H2'	29:D1:510:G:H5'	1.73	0.69
29:D1:516:A:OP1	29:D1:517:G:OP1	2.10	0.69
29:D1:533:A:N6	29:D1:555:U:O2'	2.24	0.69
29:D1:560:G:N2	29:D1:561:C:N3	2.40	0.69
29:D1:612:U:H1'	29:D1:613:G:N7	2.06	0.69
29:D1:717:C:C5	29:D1:721:G:P	2.85	0.69
29:D1:757:C:O2	29:D1:757:C:C2'	2.41	0.69
29:D1:947:G:H2'	29:D1:948:C:H6	1.56	0.69
29:D1:968:G:C6	29:D1:969:C:N4	2.61	0.69
29:D1:1689:U:H2'	29:D1:1690:C:O4'	1.93	0.69
29:D1:2222:A:O2'	29:D1:2223:A:C8	2.45	0.69
29:D1:2413:A:C2	29:D1:2414:G:N7	2.61	0.69
29:D1:2529:A:H2'	29:D1:2530:G:C8	2.28	0.69
29:D1:2583:C:H4'	29:D1:2583:C:OP1	1.91	0.69
29:D1:2677:G:N2	29:D1:2679:A:C4	2.61	0.69
29:D1:2847:A:N3	29:D1:2847:A:H2'	2.08	0.69
29:D1:2899:C:H42	40:DI:173:ARG:CB	2.06	0.69
29:D1:2900:A:H2'	29:D1:2901:G:O5'	1.91	0.69
29:D1:3299:A:O2'	29:D1:3300:U:OP1	2.07	0.69
29:D1:3333:G:H1	29:D1:3370:A:C4'	2.05	0.69
30:D2:31:U:C6	30:D2:32:U:H5	2.10	0.69
30:D2:33:U:O2'	30:D2:34:C:C6	2.45	0.69
30:D2:97:A:H8	30:D2:97:A:OP2	1.76	0.69
31:D3:71:A:N6	31:D3:87:G:N7	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:58:ARG:O	34:DC:71:GLU:O	2.10	0.69
36:DE:134:ALA:N	36:DE:135:VAL:HA	2.05	0.69
39:DH:93:LEU:O	39:DH:94:PHE:C	2.36	0.69
45:DP:124:LEU:HA	45:DP:126:VAL:H	1.55	0.69
1:A1:105:A:N1	74:A1:1910:OHX:N4	2.41	0.69
1:A1:224:C:H42	1:A1:837:G:H1	1.40	0.69
1:A1:335:U:H3'	1:A1:336:G:H8	1.55	0.69
1:A1:426:G:H2'	1:A1:427:C:H5"	1.75	0.69
1:A1:981:U:H1'	1:A1:1124:A:H2	1.57	0.69
1:A1:1032:G:H2'	1:A1:1033:C:H6	1.57	0.69
1:A1:1092:A:C4	1:A1:1094:G:N7	2.60	0.69
1:A1:1241:G:H2'	1:A1:1242:A:H3'	1.72	0.69
1:A1:1604:U:C3'	1:A1:1605:G:H5"	2.20	0.69
5:AD:153:GLY:CA	5:AD:154:ALA:HB3	2.21	0.69
29:B1:64:G:H22	29:B1:322:U:H2'	1.57	0.69
29:B1:80:G:C2	29:B1:81:C:C5	2.81	0.69
29:B1:113:C:H2'	29:B1:114:A:H5'	1.72	0.69
29:B1:208:C:C2'	29:B1:209:A:C5'	2.70	0.69
29:B1:311:C:O2	29:B1:2779:A:C2	2.46	0.69
29:B1:421:G:H8	29:B1:421:G:C3'	1.99	0.69
29:B1:534:U:P	29:B1:534:U:C6	2.86	0.69
29:B1:704:U:H3'	29:B1:704:U:C6	2.28	0.69
29:B1:747:A:H2'	29:B1:748:U:OP1	1.93	0.69
29:B1:762:U:OP1	29:B1:762:U:H4'	1.91	0.69
29:B1:898:U:C4	29:B1:899:U:C5	2.81	0.69
29:B1:975:C:H2'	29:B1:976:U:C5	2.28	0.69
29:B1:1522:U:H4'	29:B1:1523:U:OP2	1.92	0.69
29:B1:1647:A:C2'	29:B1:1648:A:H5'	2.19	0.69
29:B1:1689:U:H2'	29:B1:1690:C:O4'	1.93	0.69
29:B1:1915:A:H2'	29:B1:1916:U:H6	1.57	0.69
29:B1:2111:G:H21	51:BV:49:ILE:HA	1.56	0.69
29:B1:2113:A:C2'	29:B1:2114:C:H5'	2.20	0.69
29:B1:2168:A:C2	29:B1:2170:U:C1'	2.74	0.69
29:B1:2239:G:O2'	29:B1:2240:G:H5'	1.93	0.69
29:B1:2503:G:H2'	29:B1:2504:U:C6	2.28	0.69
29:B1:2520:A:C2	29:B1:2521:U:N3	2.58	0.69
29:B1:2628:A:C1'	29:B1:2798:C:C5	2.76	0.69
29:B1:2703:A:C5'	29:B1:2704:A:H5'	2.21	0.69
29:B1:2727:A:N1	29:B1:2728:G:C6	2.60	0.69
29:B1:2743:A:H3'	29:B1:2744:U:C6	2.26	0.69
29:B1:2777:G:N3	29:B1:2777:G:C2'	2.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2933:A:N7	29:B1:2934:A:C6	2.61	0.69
29:B1:3078:U:H1'	29:B1:3079:U:OP2	1.92	0.69
29:B1:3141:A:H5"	29:B1:3143:C:C2	2.26	0.69
29:B1:3171:U:C1'	29:B1:3172:A:OP2	2.41	0.69
29:B1:3181:C:N4	29:B1:3190:C:OP1	2.25	0.69
29:B1:3202:G:C2	29:B1:3203:U:C2	2.81	0.69
29:B1:3203:U:OP2	29:B1:3203:U:H6	1.74	0.69
29:B1:3295:A:O2'	29:B1:3296:A:H5'	1.93	0.69
30:B2:3:U:H2'	30:B2:4:U:C6	2.27	0.69
35:BD:39:PHE:O	35:BD:41:SER:N	2.26	0.69
36:BE:223:PHE:O	36:BE:225:GLY:HA3	1.92	0.69
37:BF:20:LYS:C	37:BF:112:THR:HA	2.16	0.69
37:BF:40:LEU:HA	37:BF:85:ILE:CA	2.23	0.69
37:BF:136:GLU:C	37:BF:138:GLN:N	2.50	0.69
45:BP:137:THR:O	45:BP:139:GLY:N	2.25	0.69
62:Bg:36:ARG:CA	62:Bg:37:TYR:CB	2.65	0.69
1:C1:26:A:H2	1:C1:600:U:O2	1.76	0.69
1:C1:190:C:H3'	1:C1:191:C:C5'	2.16	0.69
1:C1:313:U:C6	1:C1:1118:G:C2	2.81	0.69
1:C1:528:U:H4'	1:C1:529:A:C4'	2.23	0.69
1:C1:528:U:C4'	1:C1:529:A:O4'	2.41	0.69
1:C1:647:G:N2	1:C1:648:G:N1	2.41	0.69
1:C1:767:U:O2'	1:C1:768:C:C6	2.45	0.69
1:C1:789:A:C4	1:C1:790:U:C6	2.81	0.69
1:C1:871:G:O2'	1:C1:872:G:C8	2.36	0.69
1:C1:1107:G:O2'	1:C1:1108:G:OP1	2.10	0.69
1:C1:1241:G:H2'	1:C1:1242:A:H3'	1.73	0.69
1:C1:1351:G:C4	1:C1:1352:G:C8	2.81	0.69
1:C1:1364:G:H2'	1:C1:1365:C:H5'	1.73	0.69
1:C1:1557:U:H2'	1:C1:1558:U:H5'	1.75	0.69
1:C1:1558:U:C5	1:C1:1559:A:H2'	2.27	0.69
1:C1:1609:U:H6	1:C1:1609:U:H5"	1.57	0.69
1:C1:1609:U:H6	1:C1:1609:U:C5'	2.06	0.69
5:CD:166:ARG:O	5:CD:168:VAL:N	2.25	0.69
17:CP:58:GLY:O	17:CP:59:ILE:O	2.11	0.69
18:CQ:46:LYS:O	18:CQ:50:ILE:CB	2.40	0.69
28:Ch:16:UNK:O	28:Ch:17:UNK:C	2.41	0.69
29:D1:22:G:H5'	31:D3:104:A:O2'	1.93	0.69
29:D1:69:C:N4	29:D1:70:A:C8	2.61	0.69
29:D1:226:C:H2'	29:D1:227:G:O4'	1.93	0.69
29:D1:372:A:N6	29:D1:373:A:C6	2.61	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:404:G:N1	29:D1:405:U:O2	2.25	0.69
29:D1:504:A:C2	29:D1:587:U:C2	2.74	0.69
29:D1:522:A:N7	29:D1:523:A:C8	2.61	0.69
29:D1:558:U:O2'	29:D1:559:A:OP1	2.09	0.69
29:D1:627:U:H2'	29:D1:628:A:C8	2.28	0.69
29:D1:715:A:H3'	54:DY:115:LYS:HA	1.75	0.69
29:D1:744:A:C6	29:D1:745:C:C4	2.81	0.69
29:D1:749:C:H2'	29:D1:750:G:H8	1.55	0.69
29:D1:808:A:C4	29:D1:809:G:C8	2.80	0.69
29:D1:915:A:H3'	29:D1:915:A:C8	2.28	0.69
29:D1:972:A:H2'	29:D1:973:A:O4'	1.93	0.69
29:D1:1115:G:H3'	29:D1:1115:G:C8	2.28	0.69
29:D1:1303:A:N3	29:D1:1303:A:O4'	2.19	0.69
29:D1:1380:G:H2'	29:D1:1380:G:N3	2.08	0.69
29:D1:1827:C:H2'	29:D1:1828:A:H8	1.57	0.69
29:D1:1830:G:C8	29:D1:1830:G:OP2	2.46	0.69
29:D1:2095:G:C2'	29:D1:2096:A:H5'	2.23	0.69
29:D1:2101:C:C2'	29:D1:2102:U:H5'	2.23	0.69
29:D1:2315:G:N2	29:D1:2316:G:N7	2.41	0.69
29:D1:2354:C:H2'	29:D1:2354:C:O2	1.91	0.69
29:D1:2360:C:H5"	29:D1:2361:A:OP2	1.92	0.69
29:D1:2407:C:H2'	29:D1:2408:U:H6	1.58	0.69
29:D1:2501:U:C4'	29:D1:2502:A:OP1	2.39	0.69
29:D1:2820:A:H5'	29:D1:2821:C:OP2	1.92	0.69
29:D1:2834:G:O2'	29:D1:2835:U:H6	1.70	0.69
29:D1:2903:A:C5	29:D1:2904:U:C6	2.80	0.69
29:D1:2915:U:O2	29:D1:2915:U:C2'	2.40	0.69
29:D1:2931:C:C4	29:D1:2932:U:C5	2.81	0.69
29:D1:3046:A:C5	29:D1:3047:U:C5	2.81	0.69
29:D1:3063:C:H2'	29:D1:3064:U:C6	2.23	0.69
29:D1:3102:G:H5'	29:D1:3102:G:C8	2.25	0.69
29:D1:3141:A:C5'	29:D1:3143:C:O2	2.40	0.69
29:D1:3202:G:O2'	29:D1:3203:U:O4'	2.09	0.69
29:D1:3231:U:H2'	29:D1:3232:G:C8	2.27	0.69
29:D1:3290:G:H2'	29:D1:3291:G:C8	2.28	0.69
29:D1:3386:G:O5'	29:D1:3386:G:C8	2.45	0.69
30:D2:28:C:H2'	30:D2:28:C:O2	1.93	0.69
31:D3:124:G:H5'	31:D3:125:U:OP2	1.92	0.69
37:DF:86:ALA:HB1	37:DF:87:THR:CA	2.22	0.69
39:DH:99:PRO:HA	39:DH:236:GLY:N	2.08	0.69
1:A1:556:A:H3'	1:A1:558:U:OP2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:760:A:C2	1:A1:791:A:C4	2.81	0.69
1:A1:955:A:H2'	1:A1:956:C:H6	1.57	0.69
1:A1:1042:G:H2'	1:A1:1043:A:O4'	1.92	0.69
1:A1:1116:A:C6	1:A1:1117:U:C4	2.80	0.69
1:A1:1250:U:O4	1:A1:1251:U:O4	2.10	0.69
1:A1:1265:G:O5'	1:A1:1265:G:H8	1.76	0.69
1:A1:1285:U:H4'	1:A1:1286:U:OP1	1.91	0.69
1:A1:1494:C:O2'	1:A1:1495:C:H5'	1.93	0.69
1:A1:1597:A:C6	1:A1:1598:U:N3	2.60	0.69
1:A1:1754:A:H1'	1:A1:1755:A:C2	2.28	0.69
4:AC:115:ILE:HA	4:AC:118:ALA:HB3	1.75	0.69
16:AO:54:ASP:HA	16:AO:59:GLY:CA	2.21	0.69
29:B1:197:G:N2	29:B1:372:A:C8	2.61	0.69
29:B1:517:G:H2'	29:B1:518:G:C1'	2.22	0.69
29:B1:851:C:H2'	29:B1:852:U:C6	2.27	0.69
29:B1:995:U:O4	29:B1:2637:A:C5	2.46	0.69
29:B1:1038:C:H2'	29:B1:1039:U:C6	2.27	0.69
29:B1:1146:C:H4'	29:B1:1331:U:C5	2.28	0.69
29:B1:1633:C:C4	29:B1:1634:G:N7	2.61	0.69
29:B1:1839:A:C5'	29:B1:1840:U:OP1	2.35	0.69
29:B1:1900:A:C2	29:B1:1906:G:C8	2.81	0.69
29:B1:3057:U:C3'	29:B1:3058:U:H4'	2.23	0.69
29:B1:3099:C:C5'	29:B1:3099:C:H6	2.06	0.69
29:B1:3313:U:O2'	29:B1:3314:A:H8	1.74	0.69
31:B3:19:C:C4	31:B3:20:U:C5	2.81	0.69
31:B3:48:A:C2	31:B3:51:G:C6	2.80	0.69
31:B3:144:G:C2'	31:B3:145:U:H5'	2.23	0.69
35:BD:159:ILE:O	35:BD:161:LYS:N	2.26	0.69
36:BE:103:LEU:N	36:BE:166:ALA:HA	2.07	0.69
63:Bh:18:UNK:O	63:Bh:21:UNK:CB	2.41	0.69
1:C1:646:C:C2'	1:C1:647:G:H5"	2.23	0.69
1:C1:772:G:C6	1:C1:773:C:N3	2.61	0.69
1:C1:802:G:C6	1:C1:803:A:N1	2.60	0.69
1:C1:871:G:N3	1:C1:872:G:C8	2.61	0.69
1:C1:883:C:N4	1:C1:945:U:H3	1.89	0.69
1:C1:1008:G:C2	1:C1:1009:U:H1'	2.27	0.69
7:CF:128:CYS:H	7:CF:137:PHE:HA	1.56	0.69
29:D1:210:U:H3	35:DD:162:THR:H	1.38	0.69
29:D1:400:G:C1'	29:D1:401:U:OP2	2.41	0.69
29:D1:760:G:H2'	29:D1:761:A:H8	1.57	0.69
29:D1:920:A:H5"	29:D1:922:U:C4	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:965:A:H2'	29:D1:965:A:N3	2.07	0.69
29:D1:1156:C:H3'	29:D1:1157:G:C5'	2.23	0.69
29:D1:1189:C:C4'	29:D1:1192:C:H5	2.02	0.69
29:D1:1812:G:H4'	29:D1:1812:G:OP1	1.93	0.69
29:D1:2118:C:O5'	29:D1:2118:C:H6	1.75	0.69
29:D1:2185:G:C6	29:D1:2186:U:C4	2.80	0.69
29:D1:2310:U:C2'	29:D1:2311:G:O5'	2.41	0.69
29:D1:3123:A:C2'	29:D1:3124:G:H5'	2.21	0.69
30:D2:49:G:OP2	30:D2:49:G:N9	2.25	0.69
31:D3:34:U:O2	31:D3:34:U:C2'	2.40	0.69
43:DN:48:GLY:O	43:DN:49:PRO:C	2.34	0.69
44:DO:157:LYS:C	44:DO:159:ARG:H	2.00	0.69
54:DY:84:GLU:HA	54:DY:85:ASP:CB	2.22	0.69
59:Dd:22:CYS:CB	74:Dd:101:OHX:N4	2.55	0.69
1:A1:214:G:O2'	1:A1:215:A:H5'	1.92	0.69
1:A1:313:U:C5	1:A1:1118:G:C2	2.80	0.69
1:A1:605:A:N6	1:A1:606:A:N6	2.40	0.69
1:A1:845:G:H2'	1:A1:846:G:H5"	1.75	0.69
1:A1:1752:U:C2'	1:A1:1753:A:H8	2.04	0.69
1:A1:1786:G:H2'	1:A1:1787:C:C6	2.28	0.69
21:AT:21:THR:CB	21:AT:69:GLN:HA	2.22	0.69
29:B1:13:A:H2	29:B1:15:C:C3'	2.06	0.69
29:B1:608:A:N6	29:B1:609:G:N7	2.41	0.69
29:B1:949:C:O2	29:B1:971:G:H5"	1.92	0.69
29:B1:1339:C:H2'	29:B1:1340:G:H8	1.57	0.69
29:B1:1406:A:C2	29:B1:1407:A:C6	2.81	0.69
29:B1:1728:G:H4'	29:B1:1729:A:OP2	1.93	0.69
29:B1:2320:A:H8	29:B1:2320:A:O5'	1.75	0.69
29:B1:2513:U:C1'	29:B1:2514:U:OP1	2.41	0.69
29:B1:2603:G:H3'	29:B1:2604:U:C6	2.28	0.69
29:B1:2619:G:P	29:B1:2619:G:H8	2.16	0.69
29:B1:2696:A:N7	29:B1:2697:A:C5	2.61	0.69
29:B1:2788:C:H2'	29:B1:2789:U:C6	2.28	0.69
29:B1:2909:U:C4	29:B1:2910:A:C8	2.80	0.69
29:B1:3141:A:C4'	29:B1:3143:C:H2'	2.23	0.69
29:B1:3218:A:H3'	29:B1:3220:G:OP2	1.92	0.69
31:B3:74:U:H3'	31:B3:76:C:H5"	1.75	0.69
31:B3:106:C:O4'	31:B3:138:A:C8	2.46	0.69
1:C1:119:A:O4'	1:C1:397:A:H1'	1.93	0.69
1:C1:278:U:H3'	1:C1:278:U:O2	1.93	0.69
1:C1:364:G:C2	1:C1:381:C:N3	2.62	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:618:U:C2'	1:C1:619:A:H5'	2.22	0.69
1:C1:1637:C:OP2	1:C1:1637:C:H4'	1.92	0.69
1:C1:1651:A:C2	1:C1:1652:C:C5	2.80	0.69
7:CF:75:VAL:HA	7:CF:86:ILE:HA	1.75	0.69
8:CG:142:GLU:C	8:CG:144:ALA:H	2.01	0.69
29:D1:16:A:O2'	29:D1:17:G:H5'	1.93	0.69
29:D1:307:A:O2'	29:D1:2223:A:H1'	1.92	0.69
29:D1:394:G:H22	29:D1:396:A:H2'	1.56	0.69
29:D1:1166:G:H2'	29:D1:1167:U:H5"	1.73	0.69
29:D1:1196:C:C5	29:D1:1197:A:N6	2.38	0.69
29:D1:1453:A:H1'	29:D1:1850:A:C2	2.28	0.69
29:D1:1804:A:H2'	29:D1:1805:C:C6	2.28	0.69
29:D1:2149:A:H4'	33:DB:178:PRO:O	1.93	0.69
29:D1:2222:A:N6	29:D1:2783:U:H5'	2.08	0.69
29:D1:3176:G:C2'	29:D1:3177:G:C5'	2.70	0.69
29:D1:3388:C:H2'	29:D1:3389:U:C5	2.28	0.69
34:DC:4:ARG:C	34:DC:6:TYR:N	2.49	0.69
73:DM:102:SER:C	73:DM:104:ARG:H	2.00	0.69
45:DP:95:GLY:O	45:DP:97:ALA:N	2.25	0.69
57:Db:109:LEU:O	57:Db:110:ALA:C	2.36	0.69
1:A1:149:C:C3'	1:A1:150:U:H6	2.06	0.68
1:A1:537:G:H2'	1:A1:537:G:N3	2.06	0.68
1:A1:1163:A:N6	1:A1:1164:G:C6	2.60	0.68
1:A1:1244:A:H2	1:A1:1245:G:N9	1.91	0.68
1:A1:1372:U:H2'	1:A1:1373:C:O4'	1.93	0.68
1:A1:1457:C:C4	1:A1:1559:A:N6	2.60	0.68
4:AC:9:ARG:CB	4:AC:13:ALA:HB2	2.24	0.68
29:B1:232:G:C5	29:B1:233:C:C5	2.80	0.68
29:B1:507:U:H4'	29:B1:1167:U:OP1	1.92	0.68
29:B1:535:G:H3'	29:B1:536:U:C5	2.27	0.68
29:B1:592:A:C2'	29:B1:593:C:O2'	2.41	0.68
29:B1:818:C:H2'	29:B1:819:U:H5'	1.75	0.68
29:B1:1002:A:O2'	29:B1:1003:A:H5'	1.93	0.68
29:B1:1522:U:C5	29:B1:1835:A:H1'	2.28	0.68
29:B1:1528:G:C6	29:B1:1833:G:C6	2.81	0.68
29:B1:1539:A:C5	29:B1:1540:U:C5	2.81	0.68
29:B1:1779:C:C4'	29:B1:1780:G:H5"	2.15	0.68
29:B1:2320:A:H5"	29:B1:2321:A:OP2	1.92	0.68
29:B1:2826:U:C2'	29:B1:2827:U:H5'	2.22	0.68
29:B1:2997:G:C4	29:B1:2998:U:H5'	2.28	0.68
29:B1:3126:C:C4	29:B1:3127:A:N7	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3203:U:OP2	29:B1:3203:U:C6	2.47	0.68
29:B1:3316:A:C1'	29:B1:3317:U:OP2	2.42	0.68
30:B2:12:U:H3'	30:B2:13:A:N1	2.04	0.68
34:BC:20:LYS:O	34:BC:21:ARG:O	2.11	0.68
35:BD:42:VAL:O	35:BD:45:ASN:N	2.21	0.68
36:BE:134:ALA:N	36:BE:135:VAL:HA	2.08	0.68
1:C1:59:C:N4	1:C1:89:G:C2	2.61	0.68
1:C1:65:A:H2	1:C1:84:A:H62	1.40	0.68
1:C1:272:U:O4	1:C1:284:G:O6	2.10	0.68
1:C1:429:G:H5"	1:C1:439:U:H3'	1.73	0.68
1:C1:710:U:C2	1:C1:729:G:N1	2.61	0.68
1:C1:716:C:C5	1:C1:717:C:H5	2.10	0.68
1:C1:1109:G:C2'	1:C1:1110:G:H5"	2.22	0.68
1:C1:1683:C:P	1:C1:1684:U:OP1	2.51	0.68
1:C1:1720:G:C2'	1:C1:1721:A:H5'	2.22	0.68
10:CI:19:GLY:N	13:CL:98:TYR:HA	2.08	0.68
12:CK:48:ASN:HA	12:CK:51:ALA:HB3	1.75	0.68
29:D1:392:G:C6	29:D1:393:U:C5	2.81	0.68
29:D1:421:G:H21	29:D1:2365:C:H1'	1.54	0.68
29:D1:593:C:C2'	29:D1:594:U:C4'	2.66	0.68
29:D1:1157:G:C8	29:D1:1157:G:C5'	2.74	0.68
29:D1:1190:A:H2	29:D1:1191:U:C6	2.09	0.68
29:D1:1303:A:H8	29:D1:1304:A:C6	2.07	0.68
29:D1:1354:G:H8	29:D1:1355:A:N1	1.91	0.68
29:D1:2414:G:C2'	29:D1:2415:C:O5'	2.41	0.68
29:D1:2614:G:C2	29:D1:2797:C:H6	2.10	0.68
29:D1:2853:A:N6	29:D1:2854:U:H3	1.92	0.68
29:D1:3299:A:C2	29:D1:3300:U:C4	2.80	0.68
29:D1:3316:A:N1	29:D1:3388:C:C4	2.61	0.68
37:DF:145:LEU:O	37:DF:146:ILE:O	2.11	0.68
45:DP:106:GLU:C	45:DP:107:GLY:O	2.31	0.68
65:Dk:11:UNK:O	65:Dk:14:UNK:N	2.26	0.68
1:A1:26:A:H2	1:A1:600:U:H3	1.39	0.68
1:A1:429:G:H5"	1:A1:439:U:H3'	1.75	0.68
1:A1:934:C:H2'	1:A1:934:C:O2	1.92	0.68
1:A1:1242:A:C4'	10:AI:78:THR:HA	2.23	0.68
29:B1:509:U:N3	29:B1:510:G:C8	2.61	0.68
29:B1:514:G:O3'	29:B1:515:C:O4'	2.11	0.68
29:B1:580:C:N3	29:B1:581:U:C5	2.61	0.68
29:B1:836:A:OP2	29:B1:836:A:H8	1.76	0.68
29:B1:878:G:O4'	29:B1:880:G:N2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:972:A:O2'	29:B1:973:A:H5'	1.93	0.68
29:B1:1212:A:C3'	29:B1:1213:G:H5"	2.23	0.68
29:B1:1278:A:N7	29:B1:1279:C:C5	2.61	0.68
29:B1:1495:U:H3'	29:B1:1496:C:H5'	1.74	0.68
29:B1:1876:U:H2'	29:B1:1877:U:C5	2.28	0.68
29:B1:1931:U:C2	29:B1:2121:G:C2	2.81	0.68
29:B1:2361:A:N6	29:B1:2377:G:C6	2.62	0.68
29:B1:2417:U:H5	29:B1:2606:G:N7	1.88	0.68
29:B1:2545:C:H2'	29:B1:2546:C:C6	2.28	0.68
29:B1:2673:A:C2	29:B1:2674:A:C5	2.81	0.68
29:B1:2860:U:C5	29:B1:2938:G:H4'	2.28	0.68
29:B1:3117:C:H2'	29:B1:3118:C:C5'	2.18	0.68
29:B1:3310:A:C2	29:B1:3311:C:O4'	2.46	0.68
33:BB:209:HIS:O	33:BB:210:PRO:O	2.11	0.68
36:BE:141:PRO:C	36:BE:143:LYS:H	1.99	0.68
37:BF:42:LEU:HA	37:BF:84:VAL:CB	2.23	0.68
1:C1:172:C:HO2'	1:C1:173:A:H8	1.37	0.68
1:C1:289:U:O2	1:C1:290:G:C8	2.46	0.68
1:C1:310:C:C2'	1:C1:311:U:O5'	2.41	0.68
1:C1:521:A:H3'	1:C1:523:G:N7	2.08	0.68
1:C1:934:C:H2'	1:C1:934:C:O2	1.91	0.68
1:C1:964:U:H1'	1:C1:965:U:OP2	1.93	0.68
1:C1:1072:C:H5"	1:C1:1073:G:OP2	1.94	0.68
1:C1:1147:A:H2'	1:C1:1148:C:O4'	1.92	0.68
1:C1:1185:U:O2'	1:C1:1456:C:H4'	1.93	0.68
1:C1:1341:A:H2'	1:C1:1341:A:N3	2.08	0.68
1:C1:1627:U:O2'	1:C1:1628:U:C6	2.45	0.68
1:C1:1633:A:O4'	1:C1:1634:C:OP2	2.11	0.68
1:C1:1657:U:C4'	1:C1:1658:G:O5'	2.42	0.68
11:CJ:91:ALA:HB3	11:CJ:96:TYR:CB	2.22	0.68
29:D1:208:C:N3	29:D1:209:A:N7	2.42	0.68
29:D1:318:A:H8	29:D1:318:A:OP2	1.77	0.68
29:D1:988:U:H2'	29:D1:989:A:H8	1.58	0.68
29:D1:1039:U:H2'	29:D1:1040:A:C8	2.28	0.68
29:D1:1076:C:H5'	29:D1:1077:U:OP2	1.92	0.68
29:D1:1139:G:H8	29:D1:1139:G:H5"	1.55	0.68
29:D1:1167:U:O3'	38:DG:211:SER:O	2.10	0.68
29:D1:1687:U:OP1	29:D1:1687:U:H6	1.75	0.68
29:D1:2119:A:C5	29:D1:2120:A:C2	2.82	0.68
29:D1:2326:A:C5'	29:D1:2327:U:OP2	2.38	0.68
29:D1:2327:U:H5"	29:D1:2328:U:OP2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2555:G:N3	29:D1:2555:G:H2'	2.08	0.68
29:D1:3176:G:H2'	29:D1:3177:G:H5'	1.75	0.68
29:D1:3212:C:C2	29:D1:3213:A:C2	2.81	0.68
29:D1:3273:A:O4'	29:D1:3273:A:OP1	2.11	0.68
29:D1:3384:U:H2'	29:D1:3385:U:C6	2.27	0.68
31:D3:72:A:O2'	31:D3:73:U:OP2	2.09	0.68
45:DP:95:GLY:O	45:DP:96:LYS:C	2.35	0.68
1:A1:34:G:O6	1:A1:474:A:H2	1.76	0.68
1:A1:341:A:C4	1:A1:342:C:C5	2.81	0.68
1:A1:378:A:C8	1:A1:378:A:OP1	2.47	0.68
1:A1:437:A:H5"	1:A1:438:A:OP1	1.92	0.68
1:A1:446:A:C5	1:A1:447:U:C5	2.81	0.68
1:A1:523:G:C4	1:A1:524:U:O4	2.45	0.68
1:A1:546:U:H2'	1:A1:547:U:H6	1.54	0.68
1:A1:612:U:H5'	1:A1:613:G:H3'	1.75	0.68
1:A1:767:U:O2'	1:A1:768:C:C6	2.44	0.68
1:A1:768:C:O2'	1:A1:769:A:H5'	1.92	0.68
1:A1:833:U:O2	1:A1:833:U:H2'	1.93	0.68
1:A1:867:G:C4	1:A1:868:G:C8	2.81	0.68
1:A1:989:U:C2'	1:A1:990:C:C6	2.76	0.68
1:A1:1094:G:C2	1:A1:1095:U:C4	2.82	0.68
1:A1:1756:A:H2'	1:A1:1757:G:H5'	1.76	0.68
3:AB:178:ILE:HA	3:AB:195:ASP:O	1.93	0.68
29:B1:188:U:O2	29:B1:222:A:C2	2.46	0.68
29:B1:522:A:C5	29:B1:523:A:C8	2.80	0.68
29:B1:594:U:N3	29:B1:595:G:C4	2.62	0.68
29:B1:607:A:C6	29:B1:608:A:C5	2.80	0.68
29:B1:760:G:HO2'	29:B1:761:A:H8	1.40	0.68
29:B1:1275:C:C4	29:B1:1276:U:C4	2.81	0.68
29:B1:1358:C:H2'	29:B1:1358:C:O2	1.94	0.68
29:B1:1445:U:C5	29:B1:1446:A:C8	2.80	0.68
29:B1:1471:U:C2	29:B1:1472:U:C5	2.82	0.68
29:B1:1615:C:H2'	29:B1:1616:U:C6	2.26	0.68
29:B1:2244:A:O2'	33:BB:222:ALA:HB3	1.93	0.68
29:B1:2252:A:C2	29:B1:2253:G:C5	2.81	0.68
29:B1:2371:G:H5"	29:B1:2372:A:OP2	1.94	0.68
29:B1:2556:C:H2'	29:B1:2556:C:O2	1.92	0.68
29:B1:2616:C:C2'	29:B1:2617:U:H5'	2.23	0.68
29:B1:2651:G:C2	29:B1:2796:G:C2	2.82	0.68
29:B1:2875:U:H5'	29:B1:2876:C:OP2	1.94	0.68
29:B1:2997:G:N3	29:B1:2998:U:C5'	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3322:A:N6	29:B1:3323:A:N6	2.41	0.68
29:B1:3363:U:H5	29:B1:3364:C:H1'	1.58	0.68
37:BF:124:GLU:C	37:BF:126:GLN:N	2.51	0.68
1:C1:40:A:C2	1:C1:469:C:H1'	2.28	0.68
1:C1:404:G:H2'	1:C1:405:C:C6	2.26	0.68
1:C1:611:U:H5"	1:C1:612:U:OP2	1.94	0.68
1:C1:806:A:H2'	1:C1:807:A:H8	1.59	0.68
1:C1:1035:G:H2'	1:C1:1036:A:O4'	1.93	0.68
1:C1:1106:U:O2'	1:C1:1107:G:H5'	1.93	0.68
1:C1:1121:C:H1'	1:C1:1127:G:N2	2.09	0.68
1:C1:1132:A:N3	1:C1:1133:A:C8	2.61	0.68
1:C1:1614:A:H2'	1:C1:1615:C:H5"	1.73	0.68
1:C1:1656:U:C5'	1:C1:1657:U:O5'	2.42	0.68
3:CB:157:LYS:O	3:CB:213:ALA:HB1	1.93	0.68
13:CL:116:LEU:O	13:CL:118:LYS:N	2.26	0.68
29:D1:78:U:H3	29:D1:325:A:H61	1.41	0.68
29:D1:157:A:O2'	29:D1:158:G:C4	2.45	0.68
29:D1:185:C:C2	29:D1:186:U:C5	2.81	0.68
29:D1:769:G:H4'	29:D1:770:G:OP1	1.93	0.68
29:D1:986:U:H2'	29:D1:987:U:H6	1.58	0.68
29:D1:1167:U:H6	29:D1:1167:U:C5'	2.06	0.68
29:D1:1352:A:P	29:D1:1352:A:H8	2.16	0.68
29:D1:1469:C:C2	29:D1:1509:A:C2	2.81	0.68
29:D1:1564:U:C2	29:D1:1565:G:C8	2.80	0.68
29:D1:1625:A:H5"	29:D1:1626:U:H5"	1.75	0.68
29:D1:1716:U:H3'	29:D1:1717:U:C4'	2.21	0.68
29:D1:2306:C:H3'	29:D1:2306:C:C6	2.27	0.68
29:D1:2436:U:H5'	29:D1:2437:G:OP2	1.94	0.68
29:D1:2592:G:O6	74:D1:3463:OHX:N3	2.26	0.68
29:D1:2649:A:H1'	29:D1:2696:A:H1'	1.74	0.68
29:D1:2726:C:H5"	29:D1:2727:A:H5"	1.74	0.68
29:D1:3037:U:H2'	29:D1:3038:U:C6	2.27	0.68
29:D1:3196:U:H5	29:D1:3198:U:C6	2.12	0.68
29:D1:3262:U:O2'	29:D1:3263:G:H5'	1.93	0.68
29:D1:3309:G:C4	29:D1:3310:A:C8	2.81	0.68
29:D1:3316:A:O4'	29:D1:3317:U:OP2	2.11	0.68
29:D1:3350:C:H4'	29:D1:3354:U:C5	2.28	0.68
31:D3:104:A:H5"	31:D3:105:A:C8	2.27	0.68
39:DH:219:ASP:O	39:DH:223:ALA:HB3	1.93	0.68
45:DP:158:ALA:O	45:DP:161:LYS:N	2.25	0.68
1:A1:365:G:H2'	1:A1:366:A:O5'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:416:A:C4'	1:A1:417:A:OP2	2.37	0.68
1:A1:610:G:C2	1:A1:614:C:C2	2.82	0.68
20:AS:23:VAL:C	74:AS:101:OHX:N1	2.51	0.68
29:B1:10:C:H5	31:B3:149:A:H2	1.41	0.68
29:B1:43:A:N7	29:B1:2803:A:N6	2.42	0.68
29:B1:338:A:OP2	29:B1:338:A:C4'	2.41	0.68
29:B1:379:C:H5"	29:B1:379:C:C6	2.24	0.68
29:B1:383:G:C3'	29:B1:384:A:H5"	2.17	0.68
29:B1:533:A:H2'	29:B1:534:U:C4	2.27	0.68
29:B1:588:G:C6	29:B1:612:U:C5	2.81	0.68
29:B1:797:U:O2'	29:B1:798:G:H5'	1.93	0.68
29:B1:890:C:O2'	29:B1:2324:A:N3	2.26	0.68
29:B1:911:C:H2'	29:B1:912:G:H5'	1.74	0.68
29:B1:1691:U:H2'	29:B1:1692:U:C5	2.29	0.68
29:B1:1793:C:C1'	29:B1:1794:G:OP1	2.41	0.68
29:B1:2269:U:C4	29:B1:2272:G:N1	2.61	0.68
29:B1:2434:U:H4'	29:B1:2435:G:H5'	1.76	0.68
29:B1:2584:G:OP1	29:B1:2584:G:H4'	1.93	0.68
29:B1:2888:U:C5	29:B1:2910:A:N1	2.61	0.68
29:B1:3333:G:O2'	29:B1:3369:G:N2	2.27	0.68
30:B2:77:G:O5'	37:BF:107:ALA:HB2	1.93	0.68
59:Bd:65:ARG:C	59:Bd:67:LEU:H	2.02	0.68
1:C1:825:U:C4	1:C1:847:A:N6	2.58	0.68
1:C1:992:A:N1	1:C1:1012:U:C2	2.62	0.68
1:C1:1032:G:N2	1:C1:1033:C:C2	2.61	0.68
1:C1:1104:U:C5	1:C1:1105:C:C5	2.81	0.68
1:C1:1244:A:C2	1:C1:1245:G:N9	2.61	0.68
1:C1:1457:C:C4	1:C1:1559:A:N6	2.61	0.68
1:C1:1457:C:C6	1:C1:1559:A:N6	2.56	0.68
1:C1:1477:G:H2'	1:C1:1478:G:H5'	1.75	0.68
1:C1:1657:U:N3	74:C1:1955:OHX:N5	2.42	0.68
8:CG:109:LYS:C	8:CG:111:ALA:H	2.00	0.68
20:CS:41:GLN:CB	74:CS:101:OHX:N5	2.57	0.68
29:D1:405:U:H5	29:D1:406:G:C4	2.12	0.68
29:D1:686:G:H2'	29:D1:687:U:O4'	1.94	0.68
29:D1:716:A:C4	29:D1:716:A:OP2	2.47	0.68
29:D1:789:A:O2'	29:D1:790:U:H5'	1.92	0.68
29:D1:829:U:C4'	29:D1:866:A:H2	2.03	0.68
29:D1:983:A:C2	29:D1:985:U:C4	2.82	0.68
29:D1:1224:C:C5	29:D1:1285:G:C6	2.81	0.68
29:D1:1330:A:H2'	29:D1:1331:U:H3'	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1337:A:C5	29:D1:1338:C:C5	2.81	0.68
29:D1:1351:U:H2'	29:D1:1352:A:C5	2.28	0.68
29:D1:1468:A:H2'	29:D1:1469:C:C6	2.29	0.68
29:D1:1748:G:H2'	29:D1:1749:A:C8	2.28	0.68
29:D1:3174:A:O2'	29:D1:3175:U:H5'	1.92	0.68
29:D1:3273:A:C5	29:D1:3274:A:C8	2.81	0.68
35:DD:14:GLU:N	35:DD:15:ALA:HA	2.09	0.68
35:DD:39:PHE:O	35:DD:42:VAL:N	2.26	0.68
36:DE:234:ASP:C	36:DE:236:LEU:H	2.02	0.68
44:DO:84:PRO:HA	74:DO:301:OHX:N5	2.07	0.68
1:A1:110:U:H3'	1:A1:111:U:H5"	1.75	0.68
1:A1:450:U:H5"	1:A1:451:A:OP2	1.92	0.68
1:A1:666:U:O2'	1:A1:667:U:H5'	1.94	0.68
1:A1:916:U:H5	1:A1:917:U:C4	2.11	0.68
1:A1:963:A:O2'	1:A1:964:U:C6	2.45	0.68
1:A1:1459:C:H4'	1:A1:1460:A:OP1	1.92	0.68
1:A1:1684:U:C4	1:A1:1721:A:H2	2.12	0.68
3:AB:239:PRO:O	3:AB:241:ASP:N	2.27	0.68
21:AT:116:ASP:CB	21:AT:121:MET:H	2.06	0.68
29:B1:23:A:C2	29:B1:24:G:C4	2.81	0.68
29:B1:157:A:N1	29:B1:266:A:C2	2.61	0.68
29:B1:195:U:H2'	29:B1:196:G:O4'	1.94	0.68
29:B1:585:A:C3'	29:B1:586:C:C6	2.77	0.68
29:B1:776:U:C5'	29:B1:777:U:H6	2.07	0.68
29:B1:1103:A:H1'	29:B1:1104:G:OP1	1.92	0.68
29:B1:1105:A:C6	29:B1:1106:G:C6	2.81	0.68
29:B1:1653:G:C2'	29:B1:1654:A:H5'	2.20	0.68
29:B1:1868:G:C5	29:B1:1869:C:C5	2.81	0.68
29:B1:2114:C:H4'	29:B1:2116:G:C4	2.28	0.68
29:B1:2174:G:H8	29:B1:2174:G:OP1	1.76	0.68
29:B1:2501:U:C4'	29:B1:2502:A:OP1	2.39	0.68
29:B1:2550:U:H5'	29:B1:2551:U:OP2	1.94	0.68
29:B1:2586:G:N7	64:Bi:2:UNK:HA	2.07	0.68
29:B1:3027:A:C2'	29:B1:3028:G:H8	2.05	0.68
29:B1:3301:U:H2'	29:B1:3302:U:C5	2.28	0.68
29:B1:3304:U:O2'	29:B1:3305:A:H5'	1.91	0.68
29:B1:3314:A:H2'	34:BC:119:TYR:CA	2.22	0.68
30:B2:56:A:O3'	42:BK:149:GLY:HA2	1.92	0.68
47:BR:57:ILE:C	47:BR:59:ARG:H	1.99	0.68
1:C1:579:A:N1	4:CC:144:ALA:HB2	2.07	0.68
1:C1:926:A:C2'	1:C1:927:C:H5'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1008:G:N2	1:C1:1009:U:H1'	2.07	0.68
1:C1:1111:G:H2'	1:C1:1112:G:O4'	1.94	0.68
1:C1:1486:G:O6	1:C1:1520:U:O2	2.12	0.68
1:C1:1555:A:N3	1:C1:1555:A:H2'	2.09	0.68
1:C1:1756:A:C2'	1:C1:1757:G:H5'	2.23	0.68
9:CH:89:THR:HA	9:CH:90:ARG:C	2.19	0.68
29:D1:195:U:H4'	29:D1:1391:C:C5	2.28	0.68
29:D1:531:G:N2	29:D1:561:C:C2	2.43	0.68
29:D1:636:C:H5	29:D1:2378:C:C1'	2.05	0.68
29:D1:688:G:H1'	29:D1:692:A:N6	2.08	0.68
29:D1:846:A:C4	29:D1:847:A:C8	2.81	0.68
29:D1:1106:G:C5	29:D1:1107:C:C5	2.82	0.68
29:D1:1204:A:H5"	29:D1:1205:A:OP2	1.92	0.68
29:D1:1226:G:C2	29:D1:1227:C:C4	2.82	0.68
29:D1:1252:A:H2'	29:D1:1253:U:H5'	1.74	0.68
29:D1:1256:G:C4	29:D1:1257:C:H6	2.11	0.68
29:D1:1310:G:H8	29:D1:1310:G:H5'	1.59	0.68
29:D1:1324:U:C6	29:D1:1324:U:H5'	2.29	0.68
29:D1:1514:G:O2'	29:D1:1515:A:H5'	1.94	0.68
29:D1:1899:G:N2	29:D1:2334:U:C5	2.62	0.68
29:D1:2252:A:C2	29:D1:2253:G:C5	2.81	0.68
29:D1:2328:U:C3'	29:D1:2329:C:H5"	2.24	0.68
29:D1:2743:A:C5	29:D1:2744:U:C4	2.82	0.68
29:D1:2897:A:N1	29:D1:2904:U:O4	2.26	0.68
34:DC:166:ILE:O	34:DC:168:LYS:N	2.26	0.68
40:DI:47:LYS:O	40:DI:48:VAL:C	2.36	0.68
43:DN:89:ALA:O	43:DN:93:LYS:N	2.27	0.68
1:A1:59:C:N4	1:A1:89:G:C2	2.61	0.68
1:A1:461:G:H2'	1:A1:462:G:H8	1.59	0.68
1:A1:541:A:H4'	1:A1:542:A:OP1	1.94	0.68
1:A1:912:U:H1'	1:A1:914:G:O6	1.93	0.68
1:A1:1046:G:C5	1:A1:1073:G:C2	2.81	0.68
1:A1:1515:A:C8	15:AN:58:LEU:CB	2.77	0.68
1:A1:1536:G:N2	1:A1:1538:U:H3	1.92	0.68
3:AB:118:ALA:HB2	3:AB:124:ALA:HB2	1.75	0.68
3:AB:165:VAL:HA	3:AB:166:THR:CB	2.23	0.68
4:AC:144:ALA:O	4:AC:145:ALA:HB2	1.93	0.68
9:AH:28:VAL:O	9:AH:41:ARG:HA	1.94	0.68
16:AO:85:ASP:O	16:AO:87:GLU:N	2.27	0.68
29:B1:213:A:C2	29:B1:214:G:H1'	2.28	0.68
29:B1:355:A:H2'	29:B1:356:C:O4'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:386:A:C2'	29:B1:387:A:O5'	2.42	0.68
29:B1:534:U:OP2	29:B1:534:U:C5	2.47	0.68
29:B1:595:G:N1	29:B1:609:G:C4'	2.54	0.68
29:B1:740:G:C6	29:B1:741:U:C5	2.82	0.68
29:B1:808:A:C4	29:B1:809:G:C8	2.81	0.68
29:B1:1311:G:C1'	29:B1:2381:G:H5'	2.24	0.68
29:B1:1452:A:H1'	29:B1:2347:U:C5'	2.23	0.68
29:B1:2642:A:C2	29:B1:2643:A:C5	2.82	0.68
29:B1:2714:G:H4'	29:B1:2715:A:OP1	1.93	0.68
29:B1:3005:A:C4	29:B1:3140:G:N2	2.62	0.68
29:B1:3096:C:H2'	29:B1:3097:C:H6	1.58	0.68
29:B1:3296:A:C2	29:B1:3297:U:H1'	2.28	0.68
29:B1:3297:U:O2	29:B1:3298:C:C6	2.47	0.68
29:B1:3303:G:C4'	29:B1:3304:U:OP1	2.38	0.68
35:BD:16:THR:CB	35:BD:152:VAL:HA	2.23	0.68
38:BG:75:TYR:CB	38:BG:76:TYR:HA	2.22	0.68
54:BY:72:VAL:C	54:BY:74:ASN:H	2.00	0.68
54:BY:84:GLU:HA	54:BY:85:ASP:CB	2.23	0.68
1:C1:106:U:C4	1:C1:107:C:C4	2.81	0.68
1:C1:215:A:H8	1:C1:215:A:O5'	1.76	0.68
1:C1:442:C:O2'	1:C1:443:C:H5'	1.93	0.68
1:C1:521:A:C4'	1:C1:522:U:OP1	2.42	0.68
1:C1:560:U:H2'	1:C1:561:G:C8	2.28	0.68
1:C1:879:G:C2'	1:C1:880:C:H5'	2.24	0.68
1:C1:1167:G:H2'	1:C1:1167:G:N3	2.07	0.68
29:D1:317:A:C2	29:D1:318:A:C4	2.81	0.68
29:D1:338:A:OP2	29:D1:338:A:C4'	2.41	0.68
29:D1:342:A:N1	29:D1:349:A:C8	2.62	0.68
29:D1:360:G:O2'	29:D1:361:A:H5'	1.93	0.68
29:D1:629:U:H3'	29:D1:630:A:H8	1.58	0.68
29:D1:730:C:C2'	29:D1:731:U:H5'	2.24	0.68
29:D1:756:U:H5"	29:D1:757:C:OP2	1.92	0.68
29:D1:810:A:H5"	29:D1:811:U:OP2	1.94	0.68
29:D1:849:C:O2'	29:D1:850:U:H5'	1.94	0.68
29:D1:891:G:C6	29:D1:892:U:C4	2.81	0.68
29:D1:1001:G:C8	29:D1:1042:U:OP1	2.47	0.68
29:D1:1627:U:H5'	29:D1:1628:C:OP2	1.93	0.68
29:D1:1913:A:N3	29:D1:2120:A:H8	1.92	0.68
29:D1:2556:C:N4	29:D1:2557:A:C2	2.62	0.68
29:D1:3010:U:O2'	29:D1:3011:A:H5'	1.93	0.68
30:D2:14:U:O4'	30:D2:14:U:OP2	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:65:A:C6	31:D3:66:A:C6	2.81	0.68
1:A1:278:U:H3'	1:A1:278:U:O2	1.94	0.68
1:A1:1112:G:N2	1:A1:1134:C:C4	2.62	0.68
1:A1:1199:G:C6	1:A1:1200:G:H1'	2.28	0.68
1:A1:1269:U:O2	1:A1:1269:U:O4'	2.07	0.68
5:AD:199:ILE:C	5:AD:201:ALA:H	2.01	0.68
11:AJ:93:HIS:CB	11:AJ:94:GLN:CA	2.72	0.68
29:B1:60:A:C4	29:B1:328:U:N3	2.62	0.68
29:B1:213:A:H61	29:B1:227:G:H2'	1.59	0.68
29:B1:361:A:O2'	29:B1:362:U:O4'	2.12	0.68
29:B1:411:U:C2'	29:B1:412:G:H5'	2.24	0.68
29:B1:422:A:N3	29:B1:422:A:O4'	2.23	0.68
29:B1:512:U:N3	29:B1:579:G:N1	2.42	0.68
29:B1:947:G:C4	29:B1:948:C:C5	2.82	0.68
29:B1:1498:A:O2'	29:B1:1499:C:H5'	1.94	0.68
29:B1:2307:G:C6	29:B1:2310:U:O4	2.47	0.68
29:B1:2560:C:H6	29:B1:2560:C:O5'	1.76	0.68
29:B1:2591:A:C2	29:B1:2592:G:C1'	2.76	0.68
29:B1:2651:G:C4	29:B1:2796:G:N2	2.62	0.68
29:B1:3090:U:O2'	29:B1:3091:A:OP1	2.12	0.68
29:B1:3118:C:H2'	29:B1:3119:U:C6	2.28	0.68
29:B1:3316:A:N1	29:B1:3388:C:C4	2.61	0.68
30:B2:44:C:C5	30:B2:45:A:N7	2.62	0.68
31:B3:58:G:H2'	31:B3:99:C:O2'	1.94	0.68
31:B3:69:U:H3'	31:B3:70:G:H4'	1.75	0.68
36:BE:43:LYS:H	49:BT:69:LYS:C	2.01	0.68
43:BN:26:GLY:O	43:BN:27:GLN:O	2.12	0.68
63:Bh:36:UNK:O	63:Bh:39:UNK:N	2.27	0.68
1:C1:586:G:H2'	1:C1:587:C:C6	2.29	0.68
1:C1:826:U:H2'	1:C1:827:C:C6	2.28	0.68
1:C1:930:A:H3'	1:C1:931:C:C6	2.28	0.68
1:C1:1178:G:N2	1:C1:1462:G:C4	2.62	0.68
1:C1:1250:U:O4	1:C1:1251:U:O4	2.10	0.68
1:C1:1267:G:H21	1:C1:1448:G:C5'	2.06	0.68
1:C1:1389:C:O5'	22:Ca:17:UNK:HA	1.94	0.68
1:C1:1580:C:H4'	1:C1:1581:C:OP1	1.93	0.68
1:C1:1663:G:C4	1:C1:1664:C:C5	2.82	0.68
1:C1:1671:A:C8	1:C1:1731:A:N6	2.61	0.68
1:C1:1720:G:H2'	1:C1:1721:A:H8	1.59	0.68
5:CD:117:THR:CA	5:CD:191:ALA:HB1	2.24	0.68
29:D1:11:A:C2'	29:D1:12:A:H5'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:271:C:O2'	29:D1:272:G:C8	2.46	0.68
29:D1:355:A:C8	29:D1:356:C:C6	2.81	0.68
29:D1:565:U:C2'	29:D1:566:G:H5'	2.23	0.68
29:D1:1256:G:C4	29:D1:1257:C:C6	2.81	0.68
29:D1:1450:G:C2	29:D1:1451:C:C5	2.82	0.68
29:D1:1631:C:H5'	29:D1:1813:A:C2	2.29	0.68
29:D1:1847:A:H2	29:D1:1849:C:O4'	1.77	0.68
29:D1:2131:A:H2'	29:D1:2132:C:C5'	2.18	0.68
29:D1:2386:A:N6	29:D1:2993:G:O2'	2.25	0.68
29:D1:2697:A:H2'	29:D1:2698:G:H8	1.58	0.68
29:D1:2833:A:C6	29:D1:2834:G:C8	2.82	0.68
29:D1:2883:U:H2'	29:D1:2884:C:C6	2.28	0.68
29:D1:3240:C:O2'	29:D1:3241:G:H5'	1.94	0.68
29:D1:3315:G:H5"	29:D1:3319:U:H5'	1.76	0.68
30:D2:2:G:H2'	30:D2:3:U:C6	2.29	0.68
30:D2:9:C:H3'	30:D2:10:C:H4'	1.75	0.68
30:D2:22:A:H2'	30:D2:23:A:C8	2.28	0.68
31:D3:69:U:H2'	31:D3:70:G:C1'	2.24	0.68
31:D3:69:U:H2'	31:D3:70:G:H4'	1.75	0.68
31:D3:106:C:C4	31:D3:138:A:N6	2.62	0.68
37:DF:40:LEU:C	37:DF:85:ILE:HA	2.19	0.68
37:DF:42:LEU:HA	37:DF:84:VAL:CB	2.22	0.68
47:DR:123:THR:O	47:DR:125:ASP:N	2.26	0.68
49:DT:70:SER:O	49:DT:72:VAL:N	2.27	0.68
54:DY:90:TYR:O	54:DY:92:LYS:HA	1.93	0.68
57:Db:22:SER:C	57:Db:24:ARG:H	2.01	0.68
1:A1:129:U:OP1	1:A1:129:U:H4'	1.91	0.68
1:A1:150:U:H2'	1:A1:150:U:O2	1.93	0.68
1:A1:1558:U:C6	1:A1:1559:A:C2	2.82	0.68
74:A1:1913:OHX:N1	74:A1:1986:OHX:N4	2.42	0.68
29:B1:44:U:C5	29:B1:45:A:C4	2.81	0.68
29:B1:213:A:H61	29:B1:227:G:C2'	2.06	0.68
29:B1:221:A:O2'	29:B1:223:U:OP2	2.12	0.68
29:B1:722:G:N2	29:B1:749:C:C6	2.62	0.68
29:B1:891:G:H2'	29:B1:892:U:O5'	1.94	0.68
29:B1:955:U:C2	29:B1:956:U:C5	2.81	0.68
29:B1:1129:A:N6	29:B1:1130:A:C6	2.61	0.68
29:B1:1130:A:H2'	29:B1:1132:C:H6	1.57	0.68
29:B1:1174:G:N3	29:B1:1175:C:C6	2.62	0.68
29:B1:1229:G:H2'	29:B1:1230:G:H8	1.58	0.68
29:B1:2520:A:H2'	29:B1:2521:U:C2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3328:G:N2	29:B1:3329:U:C2	2.61	0.68
30:B2:16:U:O2'	30:B2:17:A:H5'	1.94	0.68
42:BK:84:LEU:O	42:BK:89:TYR:N	2.26	0.68
49:BT:84:TYR:O	49:BT:85:LEU:C	2.36	0.68
1:C1:523:G:H2'	1:C1:524:U:C4	2.29	0.68
1:C1:1043:A:H2'	1:C1:1044:U:H5	1.59	0.68
1:C1:1272:U:H5"	1:C1:1273:G:OP2	1.94	0.68
1:C1:1765:A:H4'	1:C1:1766:A:OP2	1.94	0.68
3:CB:245:ASP:C	3:CB:247:ALA:H	1.98	0.68
6:CE:95:TYR:O	6:CE:98:ALA:HB3	1.94	0.68
16:CO:53:ILE:O	16:CO:60:LYS:N	2.26	0.68
29:D1:112:U:O2'	29:D1:113:C:O5'	2.09	0.68
29:D1:230:U:H2'	29:D1:231:G:O4'	1.94	0.68
29:D1:232:G:C5	29:D1:233:C:C5	2.82	0.68
29:D1:342:A:C2	29:D1:349:A:C8	2.82	0.68
29:D1:423:A:N1	29:D1:637:C:OP1	2.26	0.68
29:D1:712:G:N2	29:D1:752:C:O3'	2.27	0.68
29:D1:785:G:C8	29:D1:785:G:OP1	2.47	0.68
29:D1:1042:U:OP2	29:D1:1042:U:H6	1.77	0.68
29:D1:1294:A:C2'	29:D1:1295:G:O5'	2.42	0.68
29:D1:1353:U:H2'	29:D1:1354:G:H5"	1.76	0.68
29:D1:1437:C:O2	29:D1:1437:C:H2'	1.91	0.68
29:D1:1468:A:O2'	29:D1:1469:C:P	2.52	0.68
29:D1:1635:G:OP2	29:D1:1635:G:H2'	1.94	0.68
29:D1:2698:G:H2'	29:D1:2699:G:C5'	2.21	0.68
29:D1:2918:G:C2	29:D1:2919:A:C8	2.82	0.68
29:D1:3102:G:H2'	29:D1:3103:A:O4'	1.93	0.68
29:D1:3219:G:C4	29:D1:3257:C:H3'	2.29	0.68
30:D2:62:U:H5'	30:D2:63:A:OP2	1.94	0.68
30:D2:94:C:H2'	30:D2:95:A:H8	1.59	0.68
41:DJ:144:ASN:O	41:DJ:147:VAL:CB	2.41	0.68
73:DM:46:ARG:HA	73:DM:49:ALA:HB2	1.75	0.68
43:DN:126:GLN:O	43:DN:128:ARG:N	2.27	0.68
46:DQ:76:PHE:CA	46:DQ:78:VAL:H	2.00	0.68
57:Db:75:LEU:O	57:Db:76:VAL:C	2.34	0.68
62:Dg:36:ARG:CA	62:Dg:37:TYR:CB	2.66	0.68
1:A1:44:U:H5'	1:A1:45:U:O4	1.94	0.68
1:A1:286:C:H2'	1:A1:287:G:C8	2.29	0.68
1:A1:587:C:O5'	1:A1:587:C:H6	1.77	0.68
1:A1:1024:U:OP1	1:A1:1127:G:O2'	2.11	0.68
1:A1:1046:G:C6	1:A1:1073:G:C2	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1238:A:C2'	1:A1:1239:U:H5'	2.22	0.68
1:A1:1388:A:N7	1:A1:1411:A:N6	2.42	0.68
1:A1:1571:C:H3'	1:A1:1572:G:H5"	1.74	0.68
1:A1:1676:U:H2'	1:A1:1677:C:C5	2.29	0.68
1:A1:1721:A:H3'	1:A1:1722:A:C5'	2.22	0.68
1:A1:1746:A:O2'	29:B1:2290:C:H1'	1.94	0.68
29:B1:158:G:C6	29:B1:159:A:O2'	2.46	0.68
29:B1:177:U:H2'	29:B1:177:U:O2	1.92	0.68
29:B1:336:A:O2'	29:B1:337:G:C5'	2.41	0.68
29:B1:384:A:H5"	29:B1:385:A:OP2	1.94	0.68
29:B1:392:G:C2	29:B1:393:U:H6	2.12	0.68
29:B1:585:A:H3'	29:B1:586:C:H6	1.58	0.68
29:B1:745:C:N4	29:B1:746:A:H61	1.89	0.68
29:B1:910:G:C4	29:B1:911:C:C5	2.82	0.68
29:B1:965:A:H2'	29:B1:965:A:N3	2.08	0.68
29:B1:1127:G:N2	29:B1:1132:C:N4	2.41	0.68
29:B1:1453:A:H1'	29:B1:1850:A:C2	2.28	0.68
29:B1:2131:A:C2'	29:B1:2132:C:H5"	2.22	0.68
29:B1:2193:U:H5'	29:B1:2312:A:C2	2.29	0.68
29:B1:2356:A:C2	29:B1:2357:A:C4	2.82	0.68
29:B1:2684:C:C2	29:B1:2685:C:C5	2.82	0.68
29:B1:2699:G:C8	29:B1:2699:G:C5'	2.73	0.68
29:B1:2981:U:O2'	29:B1:2982:A:H5"	1.94	0.68
29:B1:3019:U:C4	29:B1:3020:U:C5	2.81	0.68
29:B1:3131:U:H2'	29:B1:3131:U:O2	1.92	0.68
29:B1:3315:G:H5"	29:B1:3319:U:H5'	1.76	0.68
29:B1:3384:U:H2'	29:B1:3385:U:C6	2.28	0.68
30:B2:23:A:H3'	30:B2:24:A:C8	2.29	0.68
30:B2:35:C:C6	30:B2:35:C:H5'	2.28	0.68
31:B3:12:A:H2'	31:B3:13:A:H5'	1.76	0.68
34:BC:50:LYS:CB	34:BC:334:ARG:H	2.07	0.68
34:BC:154:TYR:H	34:BC:155:ALA:CB	2.04	0.68
43:BN:71:ALA:O	43:BN:72:LEU:C	2.37	0.68
43:BN:81:VAL:O	43:BN:83:LYS:N	2.27	0.68
57:Bb:120:THR:O	57:Bb:122:PRO:N	2.26	0.68
1:C1:115:G:N2	1:C1:334:G:N2	2.42	0.68
1:C1:319:U:H6	1:C1:319:U:H5'	1.58	0.68
1:C1:417:A:O5'	1:C1:417:A:C8	2.43	0.68
1:C1:702:G:H2'	1:C1:702:G:N3	2.07	0.68
1:C1:824:G:O3'	1:C1:825:U:O2	2.12	0.68
1:C1:1195:C:H41	11:CJ:142:TYR:HA	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1483:A:H1'	1:C1:1524:A:H62	1.58	0.68
3:CB:165:VAL:HA	3:CB:166:THR:CB	2.23	0.68
9:CH:22:SER:O	9:CH:24:ASN:N	2.27	0.68
19:CR:25:VAL:O	19:CR:38:ARG:HA	1.94	0.68
29:D1:591:G:N2	29:D1:592:A:C4	2.61	0.68
29:D1:971:G:O2'	29:D1:972:A:H5'	1.94	0.68
29:D1:1225:A:C2'	29:D1:1226:G:OP1	2.42	0.68
29:D1:1798:A:H2'	29:D1:1799:A:C8	2.28	0.68
29:D1:2491:A:H2'	29:D1:2492:C:O4'	1.92	0.68
29:D1:2689:A:H4'	29:D1:2690:G:C5'	2.21	0.68
29:D1:2690:G:HO2'	29:D1:2691:A:P	2.17	0.68
29:D1:2797:C:H3'	29:D1:2798:C:C5'	2.22	0.68
29:D1:3179:U:HO2'	29:D1:3180:A:P	2.17	0.68
29:D1:3295:A:OP1	34:DC:132:LYS:CB	2.42	0.68
29:D1:3327:G:C2	29:D1:3328:G:N7	2.62	0.68
40:DI:21:LYS:O	40:DI:22:SER:C	2.37	0.68
1:A1:32:U:H3	1:A1:468:A:N6	1.91	0.68
1:A1:345:U:H4'	1:A1:346:G:OP1	1.94	0.68
1:A1:811:A:N3	1:A1:858:G:H1'	2.09	0.68
1:A1:1094:G:H2'	1:A1:1095:U:C5	2.29	0.68
1:A1:1656:U:H5"	1:A1:1657:U:O5'	1.94	0.68
74:A1:1913:OHX:N2	74:A1:1986:OHX:N6	2.41	0.68
15:AN:21:LYS:H	15:AN:92:ASP:HA	1.57	0.68
16:AO:102:VAL:H	16:AO:113:HIS:CB	2.07	0.68
17:AP:102:VAL:HA	17:AP:127:VAL:CB	2.24	0.68
29:B1:19:U:H2'	29:B1:20:A:C8	2.29	0.68
29:B1:162:G:N2	29:B1:163:C:H1'	2.09	0.68
29:B1:564:G:C3'	29:B1:565:U:C6	2.76	0.68
29:B1:595:G:H1	29:B1:609:G:H4'	1.58	0.68
29:B1:627:U:H2'	29:B1:628:A:C8	2.30	0.68
29:B1:668:G:H2'	29:B1:669:U:H6	1.58	0.68
29:B1:883:A:C5	29:B1:921:A:C6	2.82	0.68
29:B1:1035:G:C4	29:B1:1036:A:C8	2.82	0.68
29:B1:1595:U:HO2'	29:B1:1596:C:H6	1.41	0.68
29:B1:2295:A:C6	29:B1:2296:A:N6	2.62	0.68
29:B1:2336:U:C5	29:B1:2337:C:C5	2.82	0.68
29:B1:2354:C:H2'	29:B1:2354:C:O2	1.93	0.68
29:B1:2968:G:H2'	29:B1:2969:A:O5'	1.94	0.68
29:B1:3072:C:C5	29:B1:3073:A:C5	2.81	0.68
29:B1:3141:A:C5'	29:B1:3143:C:O2	2.42	0.68
29:B1:3210:A:C8	29:B1:3211:C:H5	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3321:C:O2'	29:B1:3322:A:C3'	2.37	0.68
29:B1:3350:C:H4'	29:B1:3354:U:C5	2.28	0.68
30:B2:3:U:C2	30:B2:4:U:C5	2.82	0.68
30:B2:33:U:O2'	30:B2:34:C:N1	2.27	0.68
30:B2:69:C:H2'	30:B2:69:C:O2	1.93	0.68
31:B3:11:C:O2'	46:BQ:4:TYR:HA	1.94	0.68
31:B3:34:U:H2'	31:B3:34:U:O2	1.93	0.68
31:B3:71:A:C4'	31:B3:72:A:OP1	2.42	0.68
43:BN:89:ALA:O	43:BN:90:VAL:C	2.37	0.68
1:C1:57:G:C5	1:C1:58:U:C5	2.81	0.68
1:C1:212:U:O2'	1:C1:213:A:H5'	1.93	0.68
1:C1:331:A:C2	1:C1:332:U:C2	2.81	0.68
1:C1:390:G:N2	1:C1:391:A:C5	2.63	0.68
1:C1:567:A:N6	1:C1:568:G:C4	2.62	0.68
1:C1:572:C:H5"	1:C1:573:C:OP2	1.93	0.68
1:C1:743:U:O4	1:C1:809:A:N1	2.27	0.68
1:C1:844:A:H2'	1:C1:845:G:H8	1.58	0.68
1:C1:1209:C:H2'	1:C1:1210:C:H6	1.58	0.68
1:C1:1348:A:C2	1:C1:1378:U:C6	2.82	0.68
1:C1:1647:U:H2'	1:C1:1648:A:H8	1.59	0.68
3:CB:236:PRO:O	3:CB:237:VAL:C	2.36	0.68
29:D1:284:A:H2'	29:D1:284:A:N3	2.08	0.68
29:D1:759:U:C4	29:D1:773:G:C5	2.82	0.68
29:D1:1226:G:C2'	29:D1:1227:C:H6	2.04	0.68
29:D1:1455:U:C3'	29:D1:1456:A:H8	2.07	0.68
29:D1:2275:A:C2	29:D1:2312:A:C5	2.82	0.68
29:D1:2288:G:C4	29:D1:2289:U:C5	2.82	0.68
29:D1:2595:A:H2'	29:D1:2596:U:H6	1.58	0.68
29:D1:2636:A:H5"	29:D1:2637:A:O5'	1.93	0.68
29:D1:2714:G:C8	29:D1:2716:U:C5	2.82	0.68
29:D1:2914:G:C4	29:D1:2915:U:C6	2.82	0.68
29:D1:3208:G:H2'	29:D1:3208:G:N3	2.07	0.68
30:D2:25:G:H2'	30:D2:26:C:C6	2.29	0.68
34:DC:51:ALA:CB	34:DC:78:VAL:O	2.42	0.68
35:DD:259:ASP:HA	35:DD:260:GLN:C	2.19	0.68
36:DE:238:ASP:O	36:DE:240:TYR:N	2.27	0.68
1:A1:147:A:H3'	1:A1:148:A:H8	1.57	0.67
1:A1:226:A:O2'	1:A1:227:U:H6	1.77	0.67
1:A1:594:A:C4'	1:A1:595:G:H5'	2.23	0.67
1:A1:740:A:C2'	1:A1:741:C:H5"	2.24	0.67
1:A1:871:G:O2'	1:A1:872:G:H5"	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1556:A:H2'	1:A1:1560:U:C5	2.29	0.67
29:B1:11:A:O3'	29:B1:1558:A:C2	2.47	0.67
29:B1:67:A:C4	29:B1:317:A:C8	2.81	0.67
29:B1:416:A:C2	29:B1:417:A:C8	2.83	0.67
29:B1:625:G:O2'	29:B1:626:U:O5'	2.13	0.67
29:B1:779:G:H8	29:B1:779:G:H3'	1.60	0.67
29:B1:796:U:H2'	29:B1:797:U:H6	1.57	0.67
29:B1:986:U:C2'	29:B1:987:U:O5'	2.42	0.67
29:B1:1086:C:H5'	29:B1:1087:G:OP2	1.93	0.67
29:B1:1234:G:H3'	29:B1:1235:U:H5"	1.76	0.67
29:B1:1819:U:C6	29:B1:1820:U:C5	2.82	0.67
29:B1:2207:A:H8	29:B1:2237:C:O2	1.76	0.67
29:B1:2221:G:N2	29:B1:2225:U:N3	2.41	0.67
29:B1:2643:A:H3'	29:B1:2644:C:H5"	1.76	0.67
29:B1:3135:U:C6	29:B1:3136:G:N7	2.62	0.67
29:B1:3160:U:H2'	29:B1:3161:C:C6	2.29	0.67
31:B3:109:A:C2'	31:B3:110:C:H5'	2.24	0.67
35:BD:215:ILE:O	35:BD:216:VAL:C	2.37	0.67
38:BG:66:LYS:O	38:BG:69:ALA:CB	2.40	0.67
45:BP:21:SER:O	45:BP:22:VAL:C	2.35	0.67
54:BY:126:LYS:O	54:BY:147:LEU:HA	1.94	0.67
54:BY:127:ALA:C	54:BY:129:PHE:H	2.02	0.67
63:Bh:45:UNK:O	63:Bh:49:UNK:HA	1.95	0.67
1:C1:427:C:H6	1:C1:427:C:H5'	1.57	0.67
1:C1:610:G:C2	1:C1:614:C:C2	2.82	0.67
1:C1:666:U:O2'	1:C1:667:U:H5'	1.94	0.67
1:C1:1372:U:H2'	1:C1:1373:C:O4'	1.93	0.67
1:C1:1385:G:H2'	1:C1:1386:G:H8	1.59	0.67
1:C1:1392:U:H2'	1:C1:1393:C:H6	1.59	0.67
1:C1:1781:A:H8	1:C1:1781:A:O5'	1.76	0.67
4:CC:135:GLU:HA	4:CC:152:PHE:O	1.93	0.67
25:Cd:105:UNK:O	25:Cd:106:UNK:C	2.42	0.67
29:D1:566:G:O2'	29:D1:567:G:H5'	1.94	0.67
29:D1:589:A:OP2	29:D1:611:A:C2	2.47	0.67
29:D1:878:G:O4'	29:D1:880:G:N2	2.27	0.67
29:D1:1248:C:H2'	29:D1:1249:G:H5'	1.76	0.67
29:D1:1302:A:H1'	29:D1:2887:A:C2	2.29	0.67
29:D1:2506:U:H2'	29:D1:2507:C:C5	2.28	0.67
29:D1:2628:A:C1'	29:D1:2798:C:C5	2.76	0.67
29:D1:3096:C:O2'	29:D1:3097:C:H5'	1.94	0.67
29:D1:3217:C:H1'	29:D1:3220:G:O2'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3265:C:C4	29:D1:3266:G:N7	2.62	0.67
31:D3:24:G:H2'	31:D3:25:G:O5'	1.94	0.67
36:DE:226:TYR:CB	36:DE:234:ASP:H	2.07	0.67
46:DQ:128:ARG:HA	46:DQ:138:LYS:HA	1.74	0.67
62:Dg:56:THR:HA	62:Dg:63:THR:HA	1.73	0.67
1:A1:127:G:O6	1:A1:179:A:C6	2.28	0.67
1:A1:518:A:H2'	1:A1:519:C:C5'	2.23	0.67
1:A1:817:A:C2	1:A1:855:A:H2	2.12	0.67
1:A1:1045:C:O2	1:A1:1045:C:C2'	2.40	0.67
1:A1:1244:A:C2	1:A1:1245:G:C8	2.82	0.67
1:A1:1302:U:OP2	1:A1:1302:U:H6	1.77	0.67
1:A1:1341:A:H2'	1:A1:1341:A:N3	2.08	0.67
1:A1:1379:C:H2'	1:A1:1379:C:O2	1.94	0.67
1:A1:1454:G:H2'	1:A1:1455:G:H5'	1.75	0.67
1:A1:1591:C:HO2'	1:A1:1592:A:C5'	2.06	0.67
15:AN:45:ALA:C	15:AN:47:GLN:H	2.03	0.67
29:B1:149:U:C2	44:BO:55:ALA:HA	2.30	0.67
29:B1:185:C:C2	29:B1:186:U:C5	2.83	0.67
29:B1:306:A:C2	29:B1:307:A:C8	2.82	0.67
29:B1:510:G:N2	29:B1:511:G:H1'	2.09	0.67
29:B1:769:G:H4'	29:B1:770:G:OP1	1.94	0.67
29:B1:851:C:H2'	29:B1:852:U:H6	1.59	0.67
29:B1:1376:C:H5'	29:B1:1407:A:N1	2.10	0.67
29:B1:1815:U:H3'	29:B1:1816:A:H5'	1.77	0.67
29:B1:2222:A:O2'	29:B1:2223:A:C8	2.46	0.67
29:B1:2255:A:C2	74:B1:3438:OHX:N5	2.62	0.67
29:B1:2255:A:N3	74:B1:3438:OHX:N5	2.42	0.67
29:B1:2262:A:H5"	29:B1:2263:C:H5'	1.76	0.67
29:B1:2682:C:C4	29:B1:2683:U:H5	2.12	0.67
29:B1:2919:A:H3'	29:B1:2920:U:H5'	1.77	0.67
29:B1:2989:U:H2'	29:B1:2990:G:O4'	1.93	0.67
29:B1:3005:A:N3	29:B1:3140:G:C2	2.63	0.67
29:B1:3123:A:H2'	29:B1:3124:G:H5'	1.77	0.67
46:BQ:9:THR:C	46:BQ:12:ALA:H	2.03	0.67
1:C1:8:U:H3	1:C1:1139:A:H62	1.41	0.67
1:C1:93:A:C6	1:C1:398:G:C6	2.82	0.67
1:C1:461:G:H2'	1:C1:462:G:H8	1.59	0.67
1:C1:478:A:C2	1:C1:479:C:C2	2.82	0.67
1:C1:553:G:H3'	1:C1:554:C:C5'	2.24	0.67
1:C1:1240:U:H2'	1:C1:1241:G:C5'	2.14	0.67
1:C1:1402:G:C6	1:C1:1403:C:C4	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1566:U:O2'	1:C1:1567:U:H5"	1.94	0.67
1:C1:1685:G:H22	1:C1:1718:G:N2	1.92	0.67
1:C1:1753:A:H61	1:C1:1754:A:H61	1.42	0.67
4:CC:144:ALA:O	4:CC:145:ALA:HB2	1.95	0.67
29:D1:20:A:H4'	29:D1:21:G:OP1	1.94	0.67
29:D1:563:U:C4	29:D1:564:G:C8	2.82	0.67
29:D1:609:G:H4'	29:D1:610:G:OP1	1.92	0.67
29:D1:701:G:H2'	29:D1:702:C:C6	2.30	0.67
29:D1:716:A:H3'	29:D1:717:C:H4'	1.75	0.67
29:D1:1065:A:O2'	29:D1:1066:G:C8	2.44	0.67
29:D1:1103:A:H1'	29:D1:1104:G:OP1	1.94	0.67
29:D1:1119:C:H3'	29:D1:1120:A:H8	1.59	0.67
29:D1:1248:C:C5	29:D1:1249:G:C8	2.82	0.67
29:D1:1256:G:C2	29:D1:1257:C:H1'	2.30	0.67
29:D1:2239:G:O2'	29:D1:2240:G:H5'	1.93	0.67
29:D1:2271:A:C3'	29:D1:2272:G:H5"	2.23	0.67
29:D1:2363:A:C2	29:D1:2376:G:C6	2.83	0.67
29:D1:2517:U:O2	29:D1:2517:U:H2'	1.93	0.67
29:D1:2550:U:H5'	29:D1:2551:U:OP2	1.93	0.67
29:D1:2678:A:O4'	29:D1:2679:A:H2	1.77	0.67
29:D1:2861:U:H2'	29:D1:2862:U:C6	2.29	0.67
29:D1:3074:G:C2'	29:D1:3075:G:H5'	2.24	0.67
29:D1:3181:C:N4	29:D1:3190:C:OP1	2.27	0.67
30:D2:75:G:P	74:D2:201:OHX:N2	2.66	0.67
34:DC:350:ALA:O	34:DC:351:LEU:CB	2.42	0.67
36:DE:12:TYR:O	36:DE:13:SER:CB	2.42	0.67
41:DJ:69:ARG:O	41:DJ:72:ALA:HB3	1.94	0.67
42:DK:18:VAL:HA	42:DK:70:THR:CB	2.25	0.67
42:DK:84:LEU:HA	42:DK:89:TYR:HA	1.76	0.67
42:DK:153:LYS:O	42:DK:155:THR:N	2.27	0.67
46:DQ:32:THR:O	46:DQ:35:ALA:HB3	1.94	0.67
57:Db:42:VAL:O	57:Db:44:ARG:N	2.27	0.67
57:Db:89:THR:CB	57:Db:90:LYS:C	2.68	0.67
62:Dg:60:CYS:CB	74:Dg:101:OHX:N5	2.57	0.67
1:A1:97:C:O2	1:A1:425:A:O2'	2.13	0.67
1:A1:445:A:H2'	1:A1:446:A:C8	2.29	0.67
1:A1:590:C:H2'	1:A1:591:A:C8	2.30	0.67
1:A1:766:U:C4	1:A1:769:A:N7	2.62	0.67
1:A1:825:U:C6	1:A1:847:A:N1	2.58	0.67
1:A1:861:U:C5	1:A1:862:A:H8	2.12	0.67
1:A1:1239:U:C5	1:A1:1241:G:C6	2.81	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1283:U:C2	1:A1:1284:C:H5	2.12	0.67
1:A1:1728:A:C5	1:A1:1729:C:C5	2.81	0.67
3:AB:245:ASP:C	3:AB:247:ALA:H	1.99	0.67
8:AG:108:ASP:O	8:AG:111:ALA:N	2.27	0.67
29:B1:258:G:O2'	29:B1:259:C:O5'	2.11	0.67
29:B1:618:C:C2	29:B1:619:A:C8	2.82	0.67
29:B1:638:C:H2'	29:B1:639:G:C8	2.29	0.67
29:B1:952:A:H62	29:B1:1142:G:H21	1.42	0.67
29:B1:1167:U:H6	29:B1:1167:U:C5'	2.07	0.67
29:B1:1174:G:H1'	29:B1:1181:U:N3	2.10	0.67
29:B1:1233:G:O2'	29:B1:1234:G:H5"	1.95	0.67
29:B1:1688:U:C2'	29:B1:1689:U:C5	2.77	0.67
29:B1:1904:C:C4	29:B1:1905:G:N7	2.62	0.67
29:B1:2407:C:H2'	29:B1:2408:U:H6	1.58	0.67
29:B1:3094:A:H2'	29:B1:3095:U:C6	2.29	0.67
29:B1:3148:U:H2'	29:B1:3149:G:H8	1.60	0.67
31:B3:104:A:H5'	31:B3:105:A:C5'	2.23	0.67
31:B3:104:A:C5'	31:B3:105:A:H8	2.06	0.67
34:BC:175:LYS:O	34:BC:176:ALA:O	2.11	0.67
44:BO:85:THR:CB	44:BO:88:GLY:H	2.08	0.67
57:Bb:54:LYS:O	57:Bb:55:ILE:C	2.37	0.67
1:C1:20:G:H2'	1:C1:21:U:H5'	1.76	0.67
1:C1:143:G:N3	1:C1:144:U:H1'	2.09	0.67
1:C1:450:U:C2	1:C1:451:A:N7	2.62	0.67
1:C1:463:U:H2'	1:C1:464:A:C8	2.29	0.67
1:C1:1089:U:H2'	1:C1:1090:C:H5'	1.77	0.67
1:C1:1102:G:H2'	1:C1:1103:U:O5'	1.95	0.67
29:D1:9:U:N3	29:D1:10:C:C5	2.63	0.67
29:D1:158:G:C5	29:D1:159:A:H1'	2.29	0.67
29:D1:207:U:C2	29:D1:208:C:C5	2.82	0.67
29:D1:495:G:C2'	29:D1:496:C:H5'	2.24	0.67
29:D1:574:U:H6	29:D1:574:U:C5'	2.06	0.67
29:D1:585:A:C4	29:D1:586:C:C5	2.82	0.67
29:D1:1466:G:C6	29:D1:1511:U:C5	2.82	0.67
29:D1:1482:A:OP2	29:D1:1858:A:C5	2.47	0.67
29:D1:1547:G:H2'	29:D1:1548:C:C5	2.28	0.67
29:D1:1590:G:C2	29:D1:1591:G:C8	2.82	0.67
29:D1:1687:U:OP1	29:D1:1687:U:C6	2.48	0.67
29:D1:2178:A:H5'	33:DB:128:ARG:CB	2.25	0.67
29:D1:2289:U:H2'	29:D1:2290:C:H5'	1.75	0.67
29:D1:2405:C:O2	29:D1:2405:C:C2'	2.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2621:G:H2'	29:D1:2622:C:C6	2.28	0.67
29:D1:2703:A:C3'	29:D1:2704:A:H5'	2.23	0.67
29:D1:3041:U:O2'	29:D1:3042:U:C5'	2.43	0.67
29:D1:3309:G:N7	29:D1:3310:A:H1'	2.09	0.67
34:DC:94:GLU:HA	34:DC:154:TYR:CB	2.24	0.67
37:DF:93:VAL:O	37:DF:97:ASN:N	2.27	0.67
37:DF:159:LEU:C	37:DF:161:ALA:N	2.49	0.67
43:DN:33:ALA:HB1	43:DN:48:GLY:N	2.07	0.67
43:DN:47:ASP:CB	43:DN:54:PRO:O	2.42	0.67
1:A1:364:G:C8	1:A1:377:G:N2	2.62	0.67
1:A1:1003:A:H1'	1:A1:1004:U:OP2	1.95	0.67
1:A1:1101:G:OP2	1:A1:1101:G:C8	2.43	0.67
1:A1:1138:A:N3	1:A1:1139:A:C8	2.62	0.67
1:A1:1166:A:O2'	1:A1:1587:A:H4'	1.95	0.67
1:A1:1174:C:C2	1:A1:1466:G:C2	2.82	0.67
1:A1:1324:G:C6	1:A1:1325:A:N7	2.62	0.67
1:A1:1631:A:N6	1:A1:1636:C:C5	2.60	0.67
1:A1:1651:A:C2	1:A1:1652:C:C6	2.81	0.67
10:AI:98:ASN:N	10:AI:101:ALA:HB3	2.10	0.67
29:B1:126:U:O2'	29:B1:127:G:H8	1.74	0.67
29:B1:279:U:O2'	29:B1:280:U:H5'	1.94	0.67
29:B1:624:G:C2	29:B1:625:G:N7	2.63	0.67
29:B1:693:A:C4	29:B1:694:C:C5	2.81	0.67
29:B1:701:G:H2'	29:B1:702:C:C6	2.30	0.67
29:B1:992:A:N1	29:B1:993:G:C5	2.63	0.67
29:B1:1196:C:H5	29:B1:1197:A:C5	2.13	0.67
29:B1:1479:U:C3'	29:B1:1480:G:C5'	2.57	0.67
29:B1:1629:U:H3'	29:B1:1630:U:H5"	1.76	0.67
29:B1:2393:G:C6	29:B1:2982:A:H2	2.04	0.67
29:B1:2714:G:C8	29:B1:2716:U:C5	2.81	0.67
29:B1:2841:G:C6	29:B1:2844:C:C4	2.82	0.67
29:B1:2858:U:H2'	29:B1:2859:U:C6	2.30	0.67
29:B1:2897:A:C8	29:B1:2899:C:O4'	2.47	0.67
29:B1:2949:U:C5	29:B1:2950:G:O6	2.47	0.67
29:B1:3314:A:C8	34:BC:119:TYR:HA	2.29	0.67
29:B1:3377:G:N9	74:B1:3450:OHX:N4	2.43	0.67
31:B3:125:U:N3	74:B3:206:OHX:N6	2.42	0.67
37:BF:56:LYS:C	37:BF:58:LEU:H	2.01	0.67
37:BF:152:THR:HA	37:BF:156:LYS:N	2.10	0.67
1:C1:57:G:C6	1:C1:58:U:C5	2.82	0.67
1:C1:846:G:O2'	1:C1:847:A:O4'	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:985:G:C5	1:C1:986:G:N7	2.62	0.67
1:C1:1256:A:H2'	1:C1:1256:A:N3	2.10	0.67
1:C1:1340:U:O3'	1:C1:1341:A:H2'	1.94	0.67
1:C1:1408:G:H1'	1:C1:1409:G:C2	2.30	0.67
1:C1:1585:U:C5	1:C1:1610:G:N2	2.62	0.67
1:C1:1756:A:N6	74:C1:1901:OHX:N4	2.43	0.67
2:CA:88:LYS:O	2:CA:90:ALA:N	2.27	0.67
6:CE:71:PHE:O	6:CE:75:ALA:CB	2.43	0.67
29:D1:64:G:H1'	29:D1:77:A:N3	2.09	0.67
29:D1:197:G:C8	29:D1:395:A:H1'	2.29	0.67
29:D1:594:U:O2	29:D1:595:G:C5	2.47	0.67
29:D1:648:C:H5	29:D1:2374:C:O3'	1.77	0.67
29:D1:773:G:N2	29:D1:774:G:C4	2.63	0.67
29:D1:841:A:H5"	48:DS:125:LYS:O	1.93	0.67
29:D1:907:G:C6	29:D1:926:A:C8	2.83	0.67
29:D1:974:G:C5	29:D1:975:C:C5	2.82	0.67
29:D1:988:U:H2'	29:D1:989:A:C8	2.29	0.67
29:D1:993:G:H1'	29:D1:2637:A:H2'	1.77	0.67
29:D1:1224:C:H6	29:D1:1224:C:P	2.17	0.67
29:D1:1715:A:N6	29:D1:1716:U:C5	2.60	0.67
29:D1:1724:U:H2'	29:D1:1725:C:C6	2.28	0.67
29:D1:2259:A:H3'	29:D1:2260:U:H6	1.57	0.67
29:D1:2265:C:N4	29:D1:2266:U:C4	2.63	0.67
29:D1:2374:C:N4	29:D1:2941:A:N3	2.42	0.67
29:D1:2555:G:H1'	29:D1:2556:C:OP2	1.94	0.67
29:D1:2676:A:H2	29:D1:2680:A:C2	2.11	0.67
29:D1:2764:C:OP2	29:D1:2764:C:H6	1.77	0.67
29:D1:3090:U:OP1	29:D1:3090:U:H4'	1.95	0.67
29:D1:3200:G:H2'	29:D1:3201:C:C5	2.28	0.67
29:D1:3331:U:C3'	29:D1:3332:U:H5'	2.24	0.67
29:D1:3393:U:C2'	29:D1:3394:U:H5'	2.24	0.67
30:D2:46:A:OP2	30:D2:46:A:C5	2.48	0.67
31:D3:2:A:C6	31:D3:3:A:C2	2.83	0.67
33:DB:200:ARG:C	33:DB:202:VAL:H	2.01	0.67
72:DL:125:LEU:HA	72:DL:129:THR:CB	2.25	0.67
52:DW:57:LEU:CB	52:DW:58:ASP:CB	2.72	0.67
1:A1:26:A:H2	1:A1:600:U:N3	1.93	0.67
1:A1:267:U:O2	1:A1:267:U:C2'	2.41	0.67
1:A1:500:C:H2'	1:A1:501:U:C5	2.30	0.67
1:A1:512:A:O2'	1:A1:513:U:O5'	2.13	0.67
1:A1:1274:C:O2'	1:A1:1275:A:OP2	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1302:U:OP2	1:A1:1302:U:C6	2.48	0.67
1:A1:1720:G:H2'	1:A1:1721:A:O4'	1.94	0.67
5:AD:197:GLU:H	5:AD:200:ASN:N	1.91	0.67
16:AO:8:ALA:O	16:AO:12:ASN:CB	2.42	0.67
29:B1:78:U:H3	29:B1:325:A:H61	1.43	0.67
29:B1:156:G:H1'	29:B1:157:A:OP1	1.95	0.67
29:B1:827:A:H3'	29:B1:828:A:H8	1.58	0.67
29:B1:998:A:H2'	29:B1:999:G:H5'	1.76	0.67
29:B1:1153:A:N7	29:B1:1154:A:C2	2.62	0.67
29:B1:1302:A:C1'	29:B1:2887:A:C2	2.78	0.67
29:B1:1351:U:O2	29:B1:1352:A:N7	2.28	0.67
29:B1:1838:G:C4'	29:B1:1839:A:C8	2.78	0.67
29:B1:2249:G:O4'	29:B1:2272:G:C8	2.48	0.67
29:B1:2687:G:N3	29:B1:2687:G:C3'	2.49	0.67
29:B1:2689:A:C2	29:B1:2702:A:H2	2.13	0.67
29:B1:2861:U:H2'	29:B1:2862:U:H6	1.58	0.67
29:B1:3026:G:N2	29:B1:3030:G:C6	2.62	0.67
29:B1:3071:U:O2'	29:B1:3072:C:H5'	1.95	0.67
29:B1:3215:A:C6	63:Bh:1:UNK:HA	2.30	0.67
29:B1:3313:U:O2'	29:B1:3314:A:O5'	2.13	0.67
29:B1:3333:G:N3	29:B1:3371:G:C8	2.63	0.67
30:B2:9:C:H3'	30:B2:10:C:H4'	1.76	0.67
30:B2:26:C:C2'	30:B2:27:A:O4'	2.42	0.67
30:B2:91:G:H2'	30:B2:92:A:C8	2.30	0.67
31:B3:140:G:C6	31:B3:141:C:N3	2.62	0.67
37:BF:173:MET:O	37:BF:174:LEU:CB	2.43	0.67
39:BH:81:THR:O	39:BH:84:ARG:N	2.28	0.67
45:BP:158:ALA:O	45:BP:159:LYS:C	2.36	0.67
47:BR:66:ARG:O	47:BR:68:ALA:N	2.26	0.67
1:C1:331:A:N3	1:C1:331:A:H2'	2.10	0.67
1:C1:646:C:H2'	1:C1:647:G:H5"	1.77	0.67
1:C1:1005:A:C8	1:C1:1006:C:C5	2.82	0.67
1:C1:1540:G:C4	1:C1:1541:G:C8	2.83	0.67
1:C1:1629:G:H2'	1:C1:1630:U:O4'	1.94	0.67
1:C1:1760:G:C5	1:C1:1761:U:C5	2.82	0.67
1:C1:1767:G:OP1	1:C1:1770:U:H4'	1.95	0.67
5:CD:108:LEU:C	5:CD:110:ALA:N	2.52	0.67
20:CS:38:ILE:N	74:CS:101:OHX:N3	2.39	0.67
29:D1:11:A:O3'	29:D1:1558:A:C2	2.48	0.67
29:D1:637:C:C2	29:D1:2361:A:C2	2.82	0.67
29:D1:1144:U:O5'	29:D1:1144:U:H6	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1220:U:O3'	29:D1:1222:G:OP1	2.12	0.67
29:D1:1449:A:H3'	29:D1:1450:G:H8	1.58	0.67
29:D1:2545:C:H2'	29:D1:2546:C:C6	2.29	0.67
29:D1:2584:G:OP1	29:D1:2584:G:H4'	1.94	0.67
29:D1:2681:U:O2'	29:D1:2682:C:H5"	1.95	0.67
29:D1:2986:U:C2	29:D1:2987:A:C8	2.82	0.67
29:D1:3026:G:O6	74:D1:3413:OHX:N2	2.28	0.67
29:D1:3135:U:C5	29:D1:3136:G:C6	2.83	0.67
29:D1:3144:G:N7	74:D1:3431:OHX:N1	2.42	0.67
30:D2:77:G:C2	30:D2:101:G:C5	2.82	0.67
30:D2:77:G:N2	30:D2:101:G:C4	2.63	0.67
31:D3:103:G:C6	31:D3:105:A:N6	2.62	0.67
31:D3:142:C:H2'	31:D3:142:C:O2	1.93	0.67
32:DA:66:CYS:H	32:DA:110:PHE:HA	1.59	0.67
40:DI:111:PHE:HA	40:DI:112:ILE:O	1.94	0.67
44:DO:78:GLY:HA3	44:DO:79:ALA:HB2	1.75	0.67
1:A1:40:A:C2	1:A1:469:C:H1'	2.29	0.67
1:A1:44:U:H3'	1:A1:45:U:C5'	2.24	0.67
1:A1:806:A:H2'	1:A1:807:A:H8	1.59	0.67
1:A1:1109:G:N3	1:A1:1110:G:C8	2.63	0.67
1:A1:1138:A:C2	1:A1:1139:A:N7	2.61	0.67
1:A1:1489:U:H5	1:A1:1513:G:N1	1.93	0.67
1:A1:1516:A:H3'	1:A1:1517:U:H5'	1.75	0.67
1:A1:1722:A:H4'	1:A1:1722:A:OP1	1.94	0.67
1:A1:1778:G:C2	1:A1:1779:U:C5	2.83	0.67
6:AE:82:ARG:CB	6:AE:149:ARG:HA	2.24	0.67
10:AI:67:ALA:HA	10:AI:68:PRO:O	1.93	0.67
24:Ac:27:UNK:C	24:Ac:29:UNK:N	2.57	0.67
29:B1:19:U:H2'	29:B1:20:A:N7	2.10	0.67
29:B1:264:G:C4	29:B1:265:A:N7	2.62	0.67
29:B1:915:A:H3'	29:B1:915:A:C8	2.30	0.67
29:B1:932:U:O4'	29:B1:933:A:H5"	1.95	0.67
29:B1:1088:U:H2'	29:B1:1089:G:H8	1.59	0.67
29:B1:1282:G:H2'	29:B1:1283:C:H5'	1.77	0.67
29:B1:1303:A:O2'	29:B1:1304:A:C8	2.46	0.67
29:B1:1342:C:H2'	29:B1:1343:A:C8	2.29	0.67
29:B1:1377:G:C2	29:B1:1378:U:C6	2.82	0.67
29:B1:1514:G:O2'	29:B1:1515:A:H5'	1.93	0.67
29:B1:1728:G:H5'	29:B1:1730:G:O4'	1.95	0.67
29:B1:1912:U:O2'	29:B1:1913:A:C8	2.48	0.67
29:B1:2105:G:H5'	29:B1:2105:G:C8	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2111:G:O6	29:B1:3332:U:H3'	1.95	0.67
29:B1:2225:U:O2'	29:B1:2226:U:H5'	1.95	0.67
29:B1:2682:C:C4	29:B1:2683:U:C5	2.82	0.67
29:B1:2725:U:H5	29:B1:2727:A:O2'	1.78	0.67
29:B1:2732:G:C6	29:B1:2733:A:C5	2.83	0.67
29:B1:2946:A:C5	29:B1:2982:A:N6	2.62	0.67
29:B1:3165:A:H2'	29:B1:3166:C:H5'	1.76	0.67
29:B1:3234:A:H2	29:B1:3253:G:H22	1.40	0.67
30:B2:8:G:H2'	30:B2:9:C:C6	2.29	0.67
31:B3:103:G:N1	31:B3:105:A:N6	2.42	0.67
34:BC:271:GLY:O	34:BC:273:HIS:N	2.27	0.67
35:BD:165:ALA:O	35:BD:168:ALA:N	2.28	0.67
1:C1:345:U:H4'	1:C1:346:G:OP1	1.92	0.67
1:C1:500:C:H2'	1:C1:501:U:C5	2.30	0.67
1:C1:622:A:H4'	1:C1:623:A:OP1	1.91	0.67
1:C1:827:C:H2'	1:C1:828:U:N3	2.09	0.67
1:C1:1025:A:H2'	1:C1:1027:A:H5"	1.77	0.67
1:C1:1097:U:O2'	1:C1:1098:U:C5'	2.39	0.67
1:C1:1324:G:C6	1:C1:1325:A:N7	2.62	0.67
1:C1:1554:U:C5	1:C1:1555:A:C8	2.82	0.67
1:C1:1684:U:C5	1:C1:1721:A:H2	2.12	0.67
1:C1:1685:G:N2	1:C1:1718:G:H21	1.92	0.67
8:CG:88:LEU:C	8:CG:90:TYR:H	2.01	0.67
29:D1:142:C:H2'	29:D1:143:G:H8	1.60	0.67
29:D1:200:C:H5'	29:D1:221:A:N3	2.09	0.67
29:D1:315:C:H2'	29:D1:316:U:H6	1.59	0.67
29:D1:504:A:O2'	29:D1:505:G:H5'	1.95	0.67
29:D1:1621:A:O2'	29:D1:1622:U:H5'	1.95	0.67
29:D1:2111:G:H22	51:DV:50:ALA:H	1.43	0.67
29:D1:2117:A:OP2	29:D1:2118:C:N4	2.28	0.67
29:D1:2516:U:H2'	29:D1:2517:U:H6	1.60	0.67
29:D1:2912:G:C5	29:D1:2913:C:C2	2.83	0.67
29:D1:3305:A:C6	29:D1:3306:U:N3	2.62	0.67
29:D1:3320:A:H2'	29:D1:3321:C:N1	2.09	0.67
30:D2:41:G:C6	30:D2:43:U:C4	2.83	0.67
30:D2:75:G:OP1	74:D2:201:OHX:N2	2.28	0.67
43:DN:23:ILE:O	43:DN:32:LEU:HA	1.94	0.67
50:DU:97:ASP:O	50:DU:98:ASN:CB	2.42	0.67
1:A1:72:A:C6	1:A1:82:U:O2	2.48	0.67
1:A1:86:A:O2'	1:A1:147:A:N3	2.20	0.67
1:A1:119:A:O4'	1:A1:397:A:H1'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:330:G:C4	1:A1:331:A:C8	2.83	0.67
1:A1:833:U:H3'	1:A1:834:G:C5'	2.23	0.67
1:A1:838:G:N7	74:A1:1917:OHX:N6	2.42	0.67
1:A1:977:A:C4	1:A1:1025:A:C2	2.81	0.67
1:A1:1209:C:H2'	1:A1:1210:C:H6	1.60	0.67
1:A1:1416:G:C5	1:A1:1417:A:C8	2.82	0.67
1:A1:1431:C:C3'	1:A1:1432:U:H5'	2.25	0.67
1:A1:1561:U:H2'	1:A1:1562:G:C8	2.30	0.67
1:A1:1602:C:H3'	1:A1:1603:U:C6	2.25	0.67
1:A1:1679:G:C2	1:A1:1680:G:H1'	2.30	0.67
74:A1:1913:OHX:N5	74:A1:1986:OHX:N6	2.43	0.67
7:AF:110:HIS:HA	7:AF:111:VAL:CB	2.24	0.67
29:B1:58:G:H5"	29:B1:59:G:OP2	1.94	0.67
29:B1:422:A:C1'	29:B1:423:A:H5"	2.24	0.67
29:B1:565:U:C2'	29:B1:566:G:H5'	2.25	0.67
29:B1:576:C:H2'	29:B1:577:C:O5'	1.94	0.67
29:B1:733:G:N1	29:B1:736:A:N1	2.43	0.67
29:B1:883:A:C6	29:B1:921:A:C6	2.83	0.67
29:B1:1075:A:C2	69:Bp:245:UNK:O	2.48	0.67
29:B1:1075:A:C8	29:B1:1076:C:C6	2.82	0.67
29:B1:1077:U:HO2'	29:B1:1078:U:H6	1.41	0.67
29:B1:1655:G:N2	29:B1:1801:U:C4	2.63	0.67
29:B1:1912:U:C4	29:B1:1913:A:C2	2.82	0.67
29:B1:1939:G:H2'	29:B1:1940:G:H5'	1.75	0.67
29:B1:2420:C:C4	29:B1:2421:U:C5	2.82	0.67
29:B1:2513:U:H1'	29:B1:2514:U:H2'	1.77	0.67
29:B1:2529:A:H2'	29:B1:2530:G:C8	2.30	0.67
29:B1:2571:U:H2'	29:B1:2571:U:O2	1.93	0.67
29:B1:2592:G:C6	74:B1:3449:OHX:N4	2.62	0.67
29:B1:3201:C:C2'	29:B1:3202:G:H8	2.04	0.67
29:B1:3302:U:O2'	29:B1:3303:G:O4'	2.10	0.67
29:B1:3309:G:C2	29:B1:3310:A:C8	2.83	0.67
30:B2:105:C:H2'	30:B2:106:U:H5'	1.75	0.67
42:BK:84:LEU:HA	42:BK:89:TYR:HA	1.75	0.67
44:BO:49:ARG:HA	44:BO:53:TYR:CB	2.25	0.67
46:BQ:52:LEU:C	46:BQ:54:HIS:N	2.49	0.67
1:C1:127:G:O6	1:C1:179:A:N1	2.26	0.67
1:C1:688:G:H2'	1:C1:689:G:H8	1.60	0.67
1:C1:828:U:O2'	1:C1:829:A:H5'	1.95	0.67
1:C1:887:A:C2	1:C1:888:U:C2	2.83	0.67
1:C1:951:A:C2'	1:C1:952:A:O5'	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:955:A:H2'	1:C1:956:C:H6	1.60	0.67
1:C1:972:G:O2'	29:D1:847:A:N6	2.27	0.67
1:C1:1107:G:H3'	1:C1:1108:G:N2	2.09	0.67
1:C1:1274:C:O2'	1:C1:1275:A:OP2	2.11	0.67
1:C1:1558:U:C6	1:C1:1559:A:H2	2.12	0.67
2:CA:186:GLY:HA2	2:CA:187:ALA:CB	2.15	0.67
29:D1:85:A:H4'	29:D1:86:G:OP1	1.95	0.67
29:D1:195:U:H2'	29:D1:196:G:O4'	1.95	0.67
29:D1:347:G:C2	29:D1:353:G:C5	2.82	0.67
29:D1:596:C:O2	29:D1:596:C:C3'	2.40	0.67
29:D1:701:G:H2'	29:D1:702:C:H6	1.60	0.67
29:D1:836:A:H5'	29:D1:837:A:OP2	1.95	0.67
29:D1:890:C:O2'	29:D1:2324:A:N3	2.26	0.67
29:D1:952:A:H5'	29:D1:952:A:C8	2.29	0.67
29:D1:1212:A:C6	29:D1:1294:A:C2	2.82	0.67
29:D1:1525:G:H1'	29:D1:1829:G:N3	2.08	0.67
29:D1:1728:G:H21	29:D1:1730:G:N2	1.92	0.67
29:D1:1812:G:H2'	29:D1:1812:G:N3	2.10	0.67
29:D1:2393:G:N1	29:D1:2982:A:C2	2.62	0.67
29:D1:2904:U:O2	29:D1:2904:U:C2'	2.42	0.67
29:D1:2912:G:N1	29:D1:2913:C:O2	2.27	0.67
29:D1:3148:U:H2'	29:D1:3149:G:H8	1.58	0.67
29:D1:3202:G:O2'	29:D1:3203:U:H5'	1.94	0.67
29:D1:3308:C:H5	29:D1:3309:G:N3	1.93	0.67
29:D1:3327:G:N3	29:D1:3328:G:C8	2.62	0.67
29:D1:3333:G:C2	29:D1:3370:A:H4'	2.30	0.67
29:D1:3363:U:H5	29:D1:3364:C:H1'	1.59	0.67
32:DA:55:LEU:H	32:DA:167:VAL:HA	1.59	0.67
35:DD:193:LYS:O	35:DD:195:ARG:N	2.28	0.67
45:DP:148:LYS:CB	45:DP:149:TYR:CB	2.73	0.67
45:DP:192:LYS:C	45:DP:194:LEU:H	2.01	0.67
46:DQ:47:TYR:C	46:DQ:49:GLU:N	2.51	0.67
1:A1:364:G:C2	1:A1:381:C:N3	2.62	0.67
1:A1:401:A:C2	1:A1:404:G:C8	2.82	0.67
1:A1:410:A:H2	1:A1:423:G:H22	1.42	0.67
1:A1:513:U:H5	1:A1:538:A:C6	2.12	0.67
1:A1:518:A:H8	1:A1:519:C:H5"	1.59	0.67
1:A1:647:G:N2	1:A1:648:G:N1	2.42	0.67
1:A1:647:G:N1	1:A1:687:G:N1	2.42	0.67
1:A1:1159:C:H3'	1:A1:1160:A:H5'	1.75	0.67
1:A1:1426:C:O2'	1:A1:1427:A:H4'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1584:G:N3	1:A1:1585:U:OP1	2.28	0.67
2:AA:146:LEU:HA	2:AA:160:ILE:CA	2.24	0.67
8:AG:94:LYS:O	8:AG:98:VAL:CB	2.43	0.67
9:AH:64:ALA:HA	9:AH:68:ALA:N	2.09	0.67
16:AO:8:ALA:HB2	16:AO:75:ILE:CB	2.25	0.67
24:Ac:6:UNK:HA	24:Ac:95:UNK:O	1.95	0.67
28:Ah:21:UNK:HA	28:Ah:25:UNK:CA	2.20	0.67
29:B1:8:C:C2'	29:B1:9:U:C6	2.77	0.67
29:B1:495:G:C2'	29:B1:496:C:H5'	2.24	0.67
29:B1:645:A:C5	29:B1:649:A:N7	2.63	0.67
29:B1:716:A:H2'	29:B1:717:C:C2'	2.24	0.67
29:B1:730:C:H2'	29:B1:731:U:H5'	1.77	0.67
29:B1:1267:U:H2'	29:B1:1268:G:C8	2.30	0.67
29:B1:1444:G:H1	29:B1:2359:C:H42	1.40	0.67
29:B1:1724:U:H2'	29:B1:1725:C:C6	2.29	0.67
29:B1:1856:C:H2'	29:B1:1857:C:H5'	1.76	0.67
29:B1:2284:C:C2	29:B1:2308:C:O4'	2.48	0.67
29:B1:2792:A:O2'	29:B1:2793:G:H5'	1.94	0.67
29:B1:2931:C:C2	29:B1:2932:U:C6	2.82	0.67
29:B1:3273:A:C6	29:B1:3274:A:C5	2.83	0.67
31:B3:67:U:H3'	31:B3:68:G:C8	2.29	0.67
31:B3:114:G:O2'	31:B3:115:C:H5'	1.95	0.67
34:BC:85:VAL:O	34:BC:87:VAL:N	2.28	0.67
43:BN:126:GLN:O	43:BN:128:ARG:N	2.27	0.67
1:C1:71:A:C6	1:C1:83:G:N1	2.63	0.67
1:C1:226:A:O2'	1:C1:227:U:H6	1.77	0.67
1:C1:390:G:H22	1:C1:407:A:H61	1.41	0.67
1:C1:515:A:H5'	74:C1:1933:OHX:N4	2.09	0.67
1:C1:1007:C:O2	1:C1:1007:C:C2'	2.41	0.67
1:C1:1199:G:C6	1:C1:1200:G:H1'	2.30	0.67
1:C1:1238:A:C2'	1:C1:1239:U:H5'	2.24	0.67
1:C1:1345:A:H2'	1:C1:1346:A:C8	2.28	0.67
11:CJ:86:ALA:C	11:CJ:88:GLY:H	2.03	0.67
28:Ch:56:UNK:O	28:Ch:59:UNK:N	2.28	0.67
29:D1:372:A:C6	29:D1:373:A:C6	2.83	0.67
29:D1:430:U:O2'	29:D1:431:U:H5'	1.95	0.67
29:D1:515:C:C6	29:D1:515:C:P	2.88	0.67
29:D1:517:G:H8	29:D1:517:G:P	2.18	0.67
29:D1:892:U:H2'	29:D1:893:C:O4'	1.93	0.67
29:D1:1038:C:H2'	29:D1:1039:U:C6	2.30	0.67
29:D1:1140:G:C2	29:D1:1141:C:C5	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1210:U:H2'	29:D1:1211:U:H5'	1.76	0.67
29:D1:1302:A:C4	29:D1:2887:A:C2	2.83	0.67
29:D1:1311:G:H1'	29:D1:2381:G:H5'	1.77	0.67
29:D1:1366:A:H2'	29:D1:1367:G:C8	2.29	0.67
29:D1:1376:C:O4'	29:D1:1407:A:C2	2.48	0.67
29:D1:1660:C:O2'	29:D1:1661:G:H8	1.78	0.67
29:D1:2123:G:O2'	29:D1:2124:G:H5'	1.95	0.67
29:D1:2310:U:OP1	74:D1:3582:OHX:N1	2.28	0.67
29:D1:2375:G:O2'	29:D1:2377:G:OP2	2.12	0.67
29:D1:2571:U:H3'	29:D1:2572:C:H6	1.60	0.67
29:D1:2628:A:C6	29:D1:2629:U:C5	2.83	0.67
29:D1:2836:C:O2	29:D1:2836:C:C2'	2.43	0.67
29:D1:3320:A:C2'	29:D1:3321:C:C6	2.71	0.67
29:D1:3322:A:C6	29:D1:3386:G:N2	2.63	0.67
30:D2:11:A:N1	36:DE:15:ARG:O	2.28	0.67
30:D2:13:A:O5'	30:D2:13:A:N3	2.28	0.67
34:DC:105:VAL:O	34:DC:107:ALA:N	2.26	0.67
37:DF:156:LYS:O	37:DF:159:LEU:N	2.27	0.67
1:A1:436:A:H5"	1:A1:437:A:OP2	1.95	0.67
1:A1:510:G:H5"	1:A1:511:A:O5'	1.94	0.67
1:A1:518:A:H8	1:A1:519:C:C5'	2.08	0.67
1:A1:1778:G:H2'	1:A1:1779:U:H5'	1.77	0.67
17:AP:132:LEU:H	17:AP:133:LEU:C	2.02	0.67
19:AR:28:VAL:CB	19:AR:35:ASP:H	2.08	0.67
29:B1:314:U:H2'	29:B1:315:C:H6	1.58	0.67
29:B1:701:G:H2'	29:B1:702:C:H6	1.60	0.67
29:B1:727:G:N2	29:B1:741:U:N3	2.42	0.67
29:B1:811:U:C2	29:B1:812:G:C8	2.83	0.67
29:B1:952:A:H5'	29:B1:952:A:H8	1.60	0.67
29:B1:1018:G:H2'	29:B1:1019:G:H8	1.59	0.67
29:B1:1413:G:C2	29:B1:1414:G:C8	2.82	0.67
29:B1:1703:U:H5'	29:B1:1704:A:OP2	1.95	0.67
29:B1:2222:A:O2'	29:B1:2223:A:H8	1.78	0.67
29:B1:2251:G:N3	29:B1:2252:A:C8	2.63	0.67
29:B1:2295:A:C5	29:B1:2296:A:N6	2.63	0.67
29:B1:2308:C:H2'	29:B1:2309:A:H8	1.59	0.67
29:B1:2554:A:C2	33:BB:84:THR:O	2.48	0.67
29:B1:2741:C:O3'	61:Bf:19:LYS:HA	1.94	0.67
29:B1:2916:U:H5	29:B1:2935:U:O2'	1.75	0.67
29:B1:3201:C:C2	29:B1:3202:G:N7	2.63	0.67
29:B1:3323:A:H5"	56:Ba:13:THR:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:46:A:O5'	30:B2:46:A:C4	2.48	0.67
30:B2:92:A:C2'	30:B2:93:C:O4'	2.41	0.67
42:BK:153:LYS:O	42:BK:155:THR:N	2.28	0.67
43:BN:49:PRO:O	43:BN:53:VAL:N	2.27	0.67
43:BN:82:SER:O	43:BN:85:TRP:N	2.28	0.67
49:BT:79:MET:CB	49:BT:84:TYR:O	2.43	0.67
62:Bg:52:ALA:O	62:Bg:54:ILE:N	2.28	0.67
1:C1:587:C:O5'	1:C1:587:C:H6	1.76	0.67
1:C1:825:U:C6	1:C1:847:A:N1	2.58	0.67
1:C1:959:U:H1'	1:C1:960:U:OP1	1.94	0.67
1:C1:1188:G:H2'	1:C1:1189:A:H8	1.59	0.67
1:C1:1497:U:C4	1:C1:1498:G:N7	2.63	0.67
1:C1:1561:U:H2'	1:C1:1562:G:C8	2.30	0.67
17:CP:135:LEU:HA	17:CP:139:LYS:HA	1.77	0.67
19:CR:28:VAL:CB	19:CR:35:ASP:H	2.07	0.67
20:CS:37:ASN:O	74:CS:101:OHX:N6	2.28	0.67
29:D1:102:C:C1'	29:D1:103:G:OP1	2.43	0.67
29:D1:392:G:C6	29:D1:393:U:H5	2.13	0.67
29:D1:597:G:C2	29:D1:607:A:C2	2.83	0.67
29:D1:759:U:C4	29:D1:773:G:C6	2.83	0.67
29:D1:885:U:H2'	29:D1:885:U:O2	1.95	0.67
29:D1:887:G:H2'	29:D1:888:A:C8	2.30	0.67
29:D1:1184:A:H8	29:D1:1184:A:H5'	1.60	0.67
29:D1:1303:A:O2'	29:D1:1304:A:C8	2.47	0.67
29:D1:1422:G:H2'	29:D1:1423:C:H6	1.59	0.67
29:D1:1912:U:O2'	29:D1:1913:A:C8	2.47	0.67
29:D1:1915:A:H2'	29:D1:1916:U:H6	1.58	0.67
29:D1:2414:G:H2'	29:D1:2415:C:O5'	1.94	0.67
29:D1:2616:C:C2'	29:D1:2617:U:H5'	2.23	0.67
29:D1:2903:A:C4	29:D1:2904:U:H6	2.13	0.67
29:D1:3091:A:O2'	29:D1:3092:C:P	2.52	0.67
29:D1:3217:C:H5'	29:D1:3276:G:H22	1.58	0.67
29:D1:3280:U:C2	29:D1:3281:U:H5	2.13	0.67
30:D2:27:A:H5'	30:D2:28:C:OP2	1.95	0.67
31:D3:43:A:H2'	31:D3:44:A:C8	2.30	0.67
31:D3:123:G:H3'	31:D3:124:G:H5"	1.77	0.67
54:DY:131:SER:CB	54:DY:134:ALA:HB2	2.23	0.67
62:Dg:17:ARG:O	62:Dg:18:TYR:CB	2.43	0.67
62:Dg:33:GLN:O	62:Dg:34:HIS:CB	2.42	0.67
1:A1:162:A:H2'	1:A1:163:G:C8	2.30	0.67
1:A1:243:G:N2	1:A1:251:A:N3	2.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:274:G:H2'	1:A1:275:C:H6	1.60	0.67
1:A1:553:G:C6	1:A1:554:C:N3	2.63	0.67
1:A1:1047:G:O6	1:A1:1071:U:O4	2.13	0.67
1:A1:1466:G:C4	1:A1:1467:C:C5	2.83	0.67
1:A1:1475:A:C5	1:A1:1476:C:C5	2.83	0.67
1:A1:1651:A:C2	1:A1:1652:C:C5	2.82	0.67
3:AB:162:CYS:H	3:AB:209:ASN:CB	2.08	0.67
29:B1:402:A:H61	46:BQ:21:TYR:CB	2.08	0.67
29:B1:761:A:N1	29:B1:762:U:H1'	2.09	0.67
29:B1:908:G:C8	29:B1:925:A:C2	2.83	0.67
29:B1:1107:C:C2	29:B1:1108:U:C5	2.83	0.67
29:B1:1143:A:H1'	29:B1:1368:U:C5	2.29	0.67
29:B1:1170:A:OP2	74:B1:3537:OHX:N5	2.28	0.67
29:B1:1481:A:C8	29:B1:1859:A:N7	2.63	0.67
29:B1:1517:G:H2'	29:B1:1518:U:C6	2.30	0.67
29:B1:1635:G:OP2	29:B1:1635:G:H2'	1.95	0.67
29:B1:1656:A:H1'	29:B1:1657:C:C5	2.30	0.67
29:B1:1851:G:C5	29:B1:1852:G:N7	2.63	0.67
29:B1:2306:C:H3'	29:B1:2306:C:C6	2.25	0.67
29:B1:2640:A:H2'	29:B1:2641:U:C6	2.29	0.67
29:B1:2727:A:C2	29:B1:2728:G:C6	2.83	0.67
29:B1:3090:U:O2'	29:B1:3091:A:P	2.53	0.67
29:B1:3208:G:H2'	29:B1:3208:G:N3	2.10	0.67
30:B2:9:C:O2'	30:B2:13:A:N6	2.28	0.67
30:B2:22:A:C6	30:B2:23:A:C6	2.81	0.67
31:B3:14:C:H3'	31:B3:15:G:H8	1.60	0.67
36:BE:96:ALA:O	36:BE:100:ALA:N	2.25	0.67
38:BG:223:PHE:C	38:BG:224:ILE:O	2.37	0.67
42:BK:65:ILE:O	42:BK:66:ALA:HB2	1.95	0.67
47:BR:77:ALA:C	47:BR:79:LYS:H	2.03	0.67
1:C1:710:U:N3	1:C1:729:G:C6	2.63	0.67
1:C1:844:A:H2'	1:C1:845:G:C8	2.28	0.67
1:C1:975:C:H2'	1:C1:976:G:H8	1.59	0.67
1:C1:1049:U:H2'	1:C1:1050:G:C8	2.30	0.67
1:C1:1138:A:O2'	1:C1:1139:A:H5'	1.95	0.67
1:C1:1198:G:C3'	1:C1:1199:G:H5'	2.24	0.67
1:C1:1310:U:O5'	1:C1:1310:U:H6	1.79	0.67
1:C1:1330:G:H2'	1:C1:1331:A:C8	2.30	0.67
1:C1:1496:U:H4'	1:C1:1519:U:O2'	1.95	0.67
29:D1:200:C:H4'	29:D1:201:A:OP2	1.94	0.67
29:D1:355:A:C2	29:D1:365:A:C4	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:361:A:O2'	29:D1:362:U:O4'	2.12	0.67
29:D1:516:A:H4'	29:D1:517:G:OP1	1.94	0.67
29:D1:560:G:H2'	29:D1:561:C:C5	2.29	0.67
29:D1:910:G:C4	29:D1:911:C:C6	2.83	0.67
29:D1:1105:A:H2'	29:D1:1106:G:H8	1.60	0.67
29:D1:1471:U:C2	29:D1:1472:U:C5	2.83	0.67
29:D1:1481:A:C8	29:D1:1859:A:N7	2.63	0.67
29:D1:1627:U:OP1	29:D1:1627:U:H4'	1.95	0.67
29:D1:1627:U:H3'	29:D1:1628:C:O4'	1.94	0.67
29:D1:2186:U:H2'	29:D1:2187:G:C8	2.29	0.67
29:D1:2223:A:N1	29:D1:2783:U:H1'	2.09	0.67
29:D1:2654:C:H5'	29:D1:2657:A:C6	2.30	0.67
29:D1:2655:U:H4'	29:D1:2656:A:H5'	1.75	0.67
29:D1:2725:U:C5	29:D1:2727:A:O2'	2.45	0.67
29:D1:2888:U:C4	29:D1:2910:A:C2	2.82	0.67
29:D1:3072:C:C5	29:D1:3073:A:C8	2.83	0.67
29:D1:3099:C:H6	29:D1:3099:C:C5'	2.08	0.67
29:D1:3142:A:O3'	29:D1:3144:G:H8	1.78	0.67
29:D1:3323:A:C6	29:D1:3324:C:C5	2.83	0.67
31:D3:19:C:C5	31:D3:20:U:C5	2.81	0.67
31:D3:140:G:C6	31:D3:141:C:N3	2.63	0.67
34:DC:294:GLY:O	34:DC:305:ILE:N	2.28	0.67
37:DF:144:ALA:C	37:DF:146:ILE:N	2.51	0.67
38:DG:160:ARG:C	38:DG:162:PRO:N	2.51	0.67
38:DG:201:PHE:O	38:DG:202:LEU:CB	2.43	0.67
38:DG:237:ASN:O	38:DG:240:VAL:N	2.27	0.67
39:DH:247:ASP:O	39:DH:249:ARG:N	2.28	0.67
43:DN:73:PRO:O	43:DN:75:GLY:N	2.28	0.67
47:DR:110:ALA:O	47:DR:112:ALA:N	2.27	0.67
1:A1:377:G:O2'	1:A1:378:A:OP2	2.10	0.66
1:A1:725:U:H2'	1:A1:725:U:O2	1.95	0.66
1:A1:824:G:O3'	1:A1:825:U:O2	2.12	0.66
1:A1:884:A:H2'	1:A1:885:G:C8	2.30	0.66
1:A1:926:A:H2'	1:A1:927:C:H5'	1.77	0.66
1:A1:1007:C:O2	1:A1:1007:C:C2'	2.40	0.66
1:A1:1478:G:H2'	1:A1:1479:A:O4'	1.95	0.66
1:A1:1570:A:H3'	1:A1:1571:C:C6	2.30	0.66
1:A1:1622:G:H3'	1:A1:1623:C:H6	1.59	0.66
29:B1:517:G:H8	29:B1:517:G:P	2.18	0.66
29:B1:691:A:H4'	29:B1:692:A:OP2	1.94	0.66
29:B1:750:G:H5"	29:B1:751:A:OP2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:891:G:C2’	29:B1:892:U:O5’	2.43	0.66
29:B1:1140:G:H2’	29:B1:1141:C:H6	1.59	0.66
29:B1:1153:A:N7	29:B1:1154:A:C4	2.64	0.66
29:B1:1211:U:H2’	29:B1:1212:A:C8	2.28	0.66
29:B1:1376:C:N3	29:B1:1377:G:N7	2.44	0.66
29:B1:1468:A:O2’	29:B1:1469:C:P	2.52	0.66
29:B1:1901:A:O3’	29:B1:2918:G:C5’	2.38	0.66
29:B1:2280:A:C6	29:B1:2282:U:C5	2.83	0.66
29:B1:2815:G:O2’	29:B1:2817:A:H2’	1.95	0.66
29:B1:2836:C:H5	29:B1:2853:A:N1	1.93	0.66
29:B1:2909:U:C4	29:B1:2910:A:N7	2.63	0.66
29:B1:3057:U:O2’	29:B1:3058:U:H4’	1.94	0.66
30:B2:49:G:OP2	30:B2:49:G:N9	2.27	0.66
34:BC:51:ALA:CB	34:BC:79:VAL:HA	2.24	0.66
35:BD:12:THR:CB	35:BD:13:GLY:CA	2.73	0.66
38:BG:68:ASP:O	38:BG:71:ALA:HB3	1.95	0.66
60:Be:15:LYS:O	60:Be:16:ALA:C	2.38	0.66
1:C1:61:A:H4’	1:C1:62:A:H3’	1.76	0.66
1:C1:228:G:C5	1:C1:229:U:C4	2.82	0.66
1:C1:469:C:OP1	1:C1:469:C:C2	2.48	0.66
1:C1:550:A:H5”	1:C1:551:G:OP1	1.95	0.66
1:C1:743:U:O4	1:C1:809:A:C2	2.47	0.66
1:C1:1123:C:H2’	1:C1:1124:A:O5’	1.94	0.66
1:C1:1134:C:O2’	1:C1:1135:U:H5’	1.95	0.66
1:C1:1560:U:O2	1:C1:1561:U:C5	2.48	0.66
1:C1:1583:A:N3	1:C1:1585:U:C4	2.63	0.66
1:C1:1720:G:C5	1:C1:1721:A:C4	2.83	0.66
1:C1:1773:C:H5”	1:C1:1774:G:OP2	1.95	0.66
3:CB:177:GLY:O	3:CB:195:ASP:HA	1.95	0.66
6:CE:55:ALA:O	6:CE:58:ASP:N	2.28	0.66
6:CE:77:ILE:C	6:CE:79:ARG:H	2.02	0.66
29:D1:54:C:O2’	29:D1:55:G:H5’	1.96	0.66
29:D1:115:A:C8	29:D1:116:A:C2	2.84	0.66
29:D1:281:G:C2	29:D1:282:G:N7	2.63	0.66
29:D1:1145:G:C5	29:D1:1146:C:C5	2.83	0.66
29:D1:1507:G:OP2	29:D1:1507:G:C8	2.47	0.66
29:D1:1594:A:H1’	29:D1:1615:C:H1’	1.78	0.66
29:D1:2419:A:N6	29:D1:2804:A:N6	2.43	0.66
29:D1:3021:A:C4	29:D1:3023:U:O4	2.48	0.66
29:D1:3363:U:H5”	29:D1:3364:C:OP2	1.94	0.66
36:DE:238:ASP:O	36:DE:239:ILE:C	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:187:GLU:O	45:DP:189:ASP:N	2.28	0.66
47:DR:83:VAL:O	47:DR:103:ALA:HB3	1.95	0.66
47:DR:98:LYS:CA	47:DR:117:ALA:HB1	2.24	0.66
54:DY:68:PHE:C	54:DY:110:GLY:HA2	2.19	0.66
1:A1:25:C:H3'	1:A1:25:C:C6	2.29	0.66
1:A1:400:A:H4'	1:A1:401:A:O5'	1.94	0.66
1:A1:610:G:N2	1:A1:614:C:N3	2.44	0.66
1:A1:946:U:H2'	1:A1:946:U:O2	1.95	0.66
1:A1:1041:G:O2'	1:A1:1042:G:H5'	1.95	0.66
1:A1:1255:G:O4'	1:A1:1255:G:OP2	2.12	0.66
1:A1:1515:A:H8	15:AN:58:LEU:CB	2.08	0.66
1:A1:1685:G:H22	1:A1:1718:G:N2	1.92	0.66
1:A1:1761:U:H1'	1:A1:1762:A:N7	2.10	0.66
3:AB:238:SER:O	3:AB:240:LEU:N	2.28	0.66
4:AC:175:VAL:CB	4:AC:183:GLY:H	2.08	0.66
29:B1:157:A:N1	29:B1:266:A:H2	1.93	0.66
29:B1:308:A:H2	29:B1:2782:U:C2	2.14	0.66
29:B1:349:A:H2	31:B3:24:G:C8	2.13	0.66
29:B1:380:U:C2	29:B1:381:U:C5	2.83	0.66
29:B1:514:G:H2'	29:B1:515:C:C6	2.31	0.66
29:B1:556:U:C2'	29:B1:557:A:O4'	2.43	0.66
29:B1:952:A:C2'	29:B1:953:G:H5"	2.13	0.66
29:B1:1024:G:H2'	29:B1:1025:A:H5'	1.78	0.66
29:B1:1303:A:N1	29:B1:2887:A:C6	2.63	0.66
29:B1:1347:U:H4'	29:B1:1348:U:OP2	1.93	0.66
29:B1:1631:C:H5'	29:B1:1813:A:C2	2.30	0.66
29:B1:1660:C:O2'	29:B1:1661:G:H8	1.79	0.66
29:B1:2249:G:O4'	29:B1:2272:G:H8	1.76	0.66
29:B1:2279:A:C8	29:B1:2288:G:C6	2.83	0.66
29:B1:2649:A:C1'	29:B1:2696:A:H1'	2.26	0.66
29:B1:2684:C:O2'	29:B1:2685:C:O4'	2.11	0.66
29:B1:3099:C:H6	29:B1:3099:C:H5'	1.60	0.66
29:B1:3171:U:O2'	29:B1:3172:A:P	2.53	0.66
29:B1:3325:G:H1	29:B1:3380:U:H3	1.41	0.66
29:B1:3381:U:H2'	29:B1:3383:G:N9	2.10	0.66
30:B2:59:U:H2'	30:B2:60:G:H8	1.58	0.66
30:B2:73:C:H42	30:B2:74:C:H41	1.44	0.66
31:B3:72:A:H61	31:B3:85:G:H5"	1.59	0.66
33:BB:171:GLY:C	62:Bg:68:ALA:HB2	2.19	0.66
40:BI:161:LEU:O	40:BI:163:GLN:N	2.28	0.66
40:BI:170:LYS:O	40:BI:171:ASP:C	2.37	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:55:A:O2'	1:C1:56:U:O5'	2.11	0.66
1:C1:63:G:C6	1:C1:88:U:O2	2.48	0.66
1:C1:170:U:P	1:C1:267:U:HO2'	2.14	0.66
1:C1:217:A:H1'	1:C1:218:A:OP2	1.94	0.66
1:C1:330:G:H2'	1:C1:331:A:H8	1.58	0.66
1:C1:357:G:C5	1:C1:358:U:C4	2.83	0.66
1:C1:450:U:H2'	1:C1:451:A:H8	1.58	0.66
1:C1:556:A:O3'	1:C1:558:U:OP2	2.12	0.66
1:C1:650:U:C4	1:C1:684:A:N6	2.63	0.66
1:C1:985:G:H2'	1:C1:986:G:H8	1.61	0.66
1:C1:1138:A:C6	1:C1:1139:A:N6	2.63	0.66
1:C1:1166:A:H5"	1:C1:1167:G:OP2	1.94	0.66
1:C1:1364:G:C2'	1:C1:1365:C:H5'	2.25	0.66
1:C1:1501:C:C2'	1:C1:1502:G:H5'	2.25	0.66
1:C1:1511:U:H2'	1:C1:1512:G:C8	2.30	0.66
1:C1:1727:G:C6	1:C1:1728:A:N6	2.64	0.66
1:C1:1765:A:OP2	74:C1:1983:OHX:N2	2.28	0.66
4:CC:14:ASP:C	4:CC:16:VAL:N	2.50	0.66
13:CL:71:GLN:O	13:CL:72:ILE:C	2.37	0.66
29:D1:518:G:H22	29:D1:572:A:N6	1.92	0.66
29:D1:637:C:O2'	29:D1:638:C:H6	1.72	0.66
29:D1:953:G:C8	29:D1:953:G:C3'	2.79	0.66
29:D1:996:A:C6	29:D1:1054:A:C8	2.83	0.66
29:D1:1018:G:H2'	29:D1:1019:G:H8	1.60	0.66
29:D1:1129:A:C2'	29:D1:1130:A:H5'	2.24	0.66
29:D1:1324:U:C5'	29:D1:1324:U:C6	2.78	0.66
29:D1:1351:U:H2'	29:D1:1351:U:O2	1.93	0.66
29:D1:1352:A:H3'	29:D1:1353:U:H4'	1.77	0.66
29:D1:1941:C:O2'	29:D1:3363:U:O2	2.10	0.66
29:D1:2269:U:C6	29:D1:2272:G:O6	2.49	0.66
29:D1:2571:U:H2'	29:D1:2571:U:O2	1.94	0.66
29:D1:2593:A:H4'	29:D1:2594:C:C5'	2.25	0.66
29:D1:2614:G:C4	29:D1:2797:C:C5	2.83	0.66
29:D1:2750:U:O2'	29:D1:2751:G:H5'	1.95	0.66
29:D1:2872:A:H4'	29:D1:2873:U:OP1	1.95	0.66
29:D1:2903:A:C5	29:D1:2904:U:H6	2.13	0.66
29:D1:3035:A:C4	29:D1:3036:G:C8	2.83	0.66
29:D1:3139:A:H2'	29:D1:3140:G:C8	2.30	0.66
29:D1:3160:U:H2'	29:D1:3161:C:C6	2.30	0.66
29:D1:3377:G:N3	29:D1:3379:C:OP2	2.28	0.66
34:DC:118:PHE:CA	34:DC:119:TYR:CB	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:295:ALA:N	34:DC:305:ILE:H	1.92	0.66
38:DG:80:GLN:CA	38:DG:81:HIS:CB	2.73	0.66
39:DH:185:ARG:C	39:DH:187:GLY:H	2.03	0.66
49:DT:75:ILE:O	49:DT:76:ILE:CB	2.43	0.66
59:Dd:4:GLY:O	59:Dd:7:SER:N	2.27	0.66
1:A1:135:A:H4'	1:A1:135:A:OP1	1.94	0.66
1:A1:224:C:C2'	1:A1:225:A:H8	2.09	0.66
1:A1:289:U:OP1	1:A1:453:U:OP2	2.13	0.66
1:A1:718:U:H5	1:A1:722:G:C5	2.13	0.66
1:A1:720:G:H1'	1:A1:721:U:O5'	1.94	0.66
1:A1:827:C:C2	1:A1:846:G:C6	2.82	0.66
1:A1:1280:C:H4'	15:AN:70:THR:CB	2.25	0.66
1:A1:1287:A:N3	1:A1:1288:G:H1'	2.10	0.66
1:A1:1511:U:H2'	1:A1:1512:G:C8	2.30	0.66
3:AB:177:GLY:O	3:AB:195:ASP:HA	1.96	0.66
29:B1:420:G:H21	29:B1:2384:A:C3'	2.07	0.66
29:B1:597:G:C2	29:B1:598:A:C4	2.83	0.66
29:B1:686:G:H2'	29:B1:687:U:O4'	1.95	0.66
29:B1:943:U:N1	29:B1:1432:C:C5	2.63	0.66
29:B1:1164:G:H2'	29:B1:1165:A:H8	1.60	0.66
29:B1:1230:G:H3'	29:B1:1231:A:C8	2.31	0.66
29:B1:1399:A:N1	31:B3:8:C:O4'	2.28	0.66
29:B1:1901:A:C5'	29:B1:2919:A:OP1	2.42	0.66
29:B1:2144:A:N3	29:B1:2281:A:C6	2.63	0.66
29:B1:2682:C:OP1	42:BK:50:ALA:N	2.29	0.66
29:B1:2694:A:H2'	29:B1:2695:A:H1'	1.77	0.66
29:B1:2702:A:C4'	29:B1:2704:A:C8	2.79	0.66
29:B1:2750:U:C2'	29:B1:2751:G:H5'	2.25	0.66
30:B2:87:G:N2	30:B2:95:A:C4	2.63	0.66
30:B2:91:G:C6	30:B2:92:A:C6	2.83	0.66
46:BQ:47:TYR:C	46:BQ:49:GLU:H	2.01	0.66
48:BS:127:SER:O	48:BS:129:GLY:N	2.29	0.66
57:Bb:75:LEU:O	57:Bb:76:VAL:C	2.36	0.66
58:Bc:16:GLN:C	58:Bc:18:ALA:N	2.49	0.66
61:Bf:14:GLY:N	61:Bf:15:LYS:HA	2.10	0.66
22:Bo:11:UNK:O	22:Bo:15:UNK:CB	2.44	0.66
1:C1:162:A:C3'	1:C1:163:G:C8	2.76	0.66
1:C1:298:C:H3'	1:C1:298:C:C6	2.30	0.66
1:C1:402:C:N4	1:C1:424:C:OP2	2.28	0.66
1:C1:1227:A:C8	1:C1:1229:G:H5'	2.30	0.66
1:C1:1466:G:C6	1:C1:1467:C:C4	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1584:G:C2	1:C1:1585:U:OP1	2.49	0.66
1:C1:1603:U:O2	1:C1:1603:U:H2'	1.94	0.66
3:CB:59:HIS:CB	3:CB:61:LEU:H	2.07	0.66
5:CD:160:VAL:CB	19:CR:51:ASN:HA	2.25	0.66
8:CG:94:LYS:O	8:CG:98:VAL:CB	2.43	0.66
10:CI:97:TYR:HA	10:CI:102:PHE:H	1.58	0.66
29:D1:49:A:N1	29:D1:279:U:H4'	2.10	0.66
29:D1:72:C:H3'	29:D1:73:C:H5'	1.75	0.66
29:D1:196:G:N2	29:D1:219:A:H62	1.92	0.66
29:D1:269:G:C6	29:D1:294:U:H5	2.14	0.66
29:D1:315:C:H2'	29:D1:316:U:C6	2.29	0.66
29:D1:596:C:H3'	29:D1:597:G:C5'	2.26	0.66
29:D1:637:C:N1	29:D1:638:C:C5	2.64	0.66
29:D1:914:A:H4'	29:D1:915:A:H5'	1.77	0.66
29:D1:1123:U:H2'	29:D1:1124:U:O4'	1.95	0.66
29:D1:1172:G:O2'	29:D1:1173:U:H5'	1.95	0.66
29:D1:1503:A:H5"	29:D1:1503:A:C8	2.30	0.66
29:D1:1815:U:H3'	29:D1:1816:A:H5'	1.75	0.66
29:D1:2144:A:N3	29:D1:2281:A:C6	2.64	0.66
29:D1:2278:C:C2'	29:D1:2279:A:H5"	2.25	0.66
29:D1:2672:G:H4'	42:DK:104:PHE:O	1.95	0.66
29:D1:2880:U:O2	34:DC:250:ALA:HB3	1.95	0.66
29:D1:2985:C:H2'	29:D1:2986:U:H6	1.60	0.66
29:D1:3324:C:H2'	29:D1:3325:G:C8	2.23	0.66
34:DC:93:VAL:O	34:DC:99:LEU:HA	1.95	0.66
36:DE:40:HIS:HA	36:DE:41:LYS:O	1.94	0.66
36:DE:100:ALA:C	36:DE:102:GLY:N	2.51	0.66
37:DF:150:LYS:O	37:DF:152:THR:N	2.29	0.66
41:DJ:175:ASN:CB	41:DJ:176:LEU:HA	2.25	0.66
49:DT:78:LYS:O	49:DT:79:MET:CB	2.43	0.66
1:A1:395:U:O4	1:A1:396:G:C6	2.48	0.66
1:A1:489:C:H2'	1:A1:490:C:C5	2.30	0.66
1:A1:491:C:H2'	1:A1:492:A:C8	2.30	0.66
1:A1:688:G:H2'	1:A1:689:G:H8	1.58	0.66
1:A1:751:G:O2'	1:A1:752:A:H5'	1.96	0.66
1:A1:1379:C:C3'	1:A1:1380:U:H5'	2.24	0.66
74:A1:1913:OHX:N5	74:A1:1986:OHX:N3	2.43	0.66
5:AD:108:LEU:C	5:AD:110:ALA:N	2.48	0.66
29:B1:284:A:N6	29:B1:2785:A:O4'	2.28	0.66
29:B1:347:G:C2	29:B1:353:G:C5	2.83	0.66
29:B1:776:U:H3'	29:B1:777:U:C4'	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:826:G:OP1	29:B1:1590:G:O2'	2.13	0.66
29:B1:1302:A:C4	29:B1:2887:A:N1	2.63	0.66
29:B1:1399:A:N3	29:B1:1399:A:H2'	2.09	0.66
29:B1:1715:A:C3'	29:B1:1716:U:H5"	2.23	0.66
29:B1:2254:U:H2'	29:B1:2261:G:H1	1.60	0.66
29:B1:2394:G:H21	34:BC:258:ALA:HA	1.61	0.66
29:B1:2673:A:N1	29:B1:2676:A:C8	2.63	0.66
29:B1:2987:A:C4	29:B1:2988:C:C5	2.83	0.66
29:B1:3071:U:O2'	29:B1:3072:C:C5'	2.44	0.66
29:B1:3119:U:H2'	29:B1:3120:C:H5'	1.76	0.66
29:B1:3182:G:O2'	29:B1:3183:A:H5'	1.96	0.66
29:B1:3322:A:C6	29:B1:3386:G:N2	2.63	0.66
29:B1:3333:G:N2	29:B1:3371:G:H8	1.94	0.66
74:B1:3537:OHX:N4	38:BG:217:PRO:O	2.28	0.66
37:BF:43:LEU:O	37:BF:45:GLY:N	2.28	0.66
44:BO:159:ARG:C	44:BO:161:ALA:N	2.54	0.66
47:BR:117:ALA:CB	47:BR:118:GLY:HA2	2.22	0.66
49:BT:14:MET:C	49:BT:16:GLN:H	2.02	0.66
53:BX:36:SER:O	53:BX:40:ARG:N	2.21	0.66
56:Ba:20:LEU:HA	56:Ba:22:GLY:O	1.95	0.66
1:C1:551:G:C2	1:C1:552:G:C5	2.84	0.66
1:C1:765:G:H4'	1:C1:766:U:OP1	1.94	0.66
1:C1:1073:G:C6	1:C1:1074:G:C5	2.83	0.66
1:C1:1170:G:N2	1:C1:1571:C:H4'	2.10	0.66
1:C1:1174:C:C2	1:C1:1466:G:C2	2.83	0.66
1:C1:1368:G:H5'	14:CM:70:GLN:CB	2.25	0.66
1:C1:1416:G:C5	1:C1:1417:A:C8	2.83	0.66
1:C1:1592:A:C4	1:C1:1605:G:N2	2.63	0.66
1:C1:1635:A:O5'	1:C1:1635:A:H8	1.78	0.66
1:C1:1670:G:N2	1:C1:1732:A:N6	2.43	0.66
29:D1:213:A:H61	29:D1:227:G:H2'	1.60	0.66
29:D1:285:A:C2	29:D1:304:G:O3'	2.47	0.66
29:D1:285:A:N1	29:D1:305:U:O5'	2.28	0.66
29:D1:299:G:C6	29:D1:300:G:C5	2.83	0.66
29:D1:422:A:H4'	29:D1:423:A:OP2	1.94	0.66
29:D1:677:A:H4'	29:D1:678:G:O5'	1.95	0.66
29:D1:943:U:C3'	54:DY:10:LYS:HA	2.21	0.66
29:D1:1194:G:C8	29:D1:1319:G:C4'	2.77	0.66
29:D1:1269:U:H3	29:D1:1272:C:N4	1.93	0.66
29:D1:1522:U:C5	29:D1:1835:A:H1'	2.31	0.66
29:D1:2443:A:H2'	29:D1:2444:C:C6	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3149:G:H2'	29:D1:3150:A:O4'	1.96	0.66
29:D1:3201:C:HO2'	29:D1:3202:G:H5'	1.60	0.66
29:D1:3219:G:C5	29:D1:3257:C:H3'	2.31	0.66
30:D2:69:C:H1'	30:D2:110:G:H22	1.60	0.66
30:D2:75:G:P	74:D2:201:OHX:N4	2.69	0.66
35:DD:12:THR:CB	35:DD:13:GLY:CA	2.73	0.66
40:DI:67:ALA:O	40:DI:68:LEU:C	2.38	0.66
47:DR:37:ALA:O	47:DR:39:ARG:N	2.28	0.66
1:A1:217:A:H1'	1:A1:218:A:OP2	1.95	0.66
1:A1:446:A:C4	1:A1:447:U:C5	2.84	0.66
1:A1:539:G:N3	1:A1:543:C:N3	2.44	0.66
1:A1:624:G:H1'	1:A1:1027:A:N3	2.11	0.66
1:A1:635:A:H2'	1:A1:636:A:C8	2.30	0.66
1:A1:969:C:H4'	1:A1:1104:U:O2'	1.96	0.66
1:A1:1087:A:H5"	1:A1:1088:A:OP2	1.95	0.66
1:A1:1099:U:C5	1:A1:1100:G:C6	2.82	0.66
1:A1:1140:G:C2	1:A1:1141:G:C8	2.84	0.66
1:A1:1431:C:C4'	1:A1:1432:U:H5'	2.24	0.66
1:A1:1521:G:H5'	1:A1:1523:G:P	2.36	0.66
1:A1:1566:U:C2'	1:A1:1567:U:H5"	2.24	0.66
1:A1:1631:A:C6	1:A1:1632:C:O2	2.49	0.66
1:A1:1761:U:O2'	1:A1:1762:A:OP2	2.12	0.66
29:B1:156:G:H1'	29:B1:157:A:H4'	1.78	0.66
29:B1:405:U:H5	29:B1:406:G:N7	1.92	0.66
29:B1:408:A:C2	29:B1:409:A:C2	2.84	0.66
29:B1:437:G:C6	29:B1:438:A:C6	2.84	0.66
29:B1:597:G:C2	29:B1:607:A:H2	2.12	0.66
29:B1:789:A:O2'	29:B1:790:U:H5'	1.95	0.66
29:B1:1156:C:C2'	29:B1:1157:G:H5"	2.26	0.66
29:B1:2255:A:C6	74:B1:3438:OHX:N6	2.62	0.66
29:B1:2395:G:H2'	29:B1:2396:G:C5'	2.24	0.66
29:B1:3102:G:H5'	29:B1:3102:G:C8	2.29	0.66
29:B1:3218:A:C4'	29:B1:3220:G:H8	2.09	0.66
29:B1:3277:U:C6	29:B1:3277:U:OP2	2.48	0.66
30:B2:27:A:H1'	30:B2:57:G:N2	2.10	0.66
31:B3:129:C:C2	31:B3:130:C:C5	2.83	0.66
35:BD:159:ILE:C	35:BD:161:LYS:H	2.02	0.66
44:BO:187:ARG:CB	44:BO:188:ARG:CB	2.73	0.66
1:C1:48:G:C5	1:C1:432:G:N2	2.63	0.66
1:C1:57:G:C5	1:C1:58:U:H5	2.13	0.66
1:C1:135:A:H4'	1:C1:135:A:OP1	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:329:G:N3	1:C1:330:G:C8	2.63	0.66
1:C1:365:G:C2'	1:C1:366:A:O5'	2.44	0.66
1:C1:977:A:C6	1:C1:1025:A:C4	2.83	0.66
1:C1:1691:A:C6	1:C1:1713:G:C2	2.83	0.66
14:CM:101:ASN:O	14:CM:103:LYS:N	2.28	0.66
29:D1:7:C:O2	29:D1:7:C:C3'	2.42	0.66
29:D1:177:U:H2'	29:D1:177:U:O2	1.95	0.66
29:D1:439:C:H2'	29:D1:439:C:O2	1.95	0.66
29:D1:514:G:O3'	29:D1:515:C:C6	2.49	0.66
29:D1:523:A:C4	29:D1:524:U:C6	2.83	0.66
29:D1:585:A:C3'	29:D1:586:C:C6	2.76	0.66
29:D1:716:A:OP2	29:D1:716:A:N3	2.28	0.66
29:D1:726:G:N1	29:D1:727:G:O6	2.29	0.66
29:D1:736:A:C8	29:D1:737:G:N7	2.63	0.66
29:D1:836:A:C2	29:D1:858:A:H1'	2.30	0.66
29:D1:1799:A:C2	29:D1:1800:A:C2	2.83	0.66
29:D1:2556:C:O2	29:D1:2556:C:H2'	1.94	0.66
29:D1:2912:G:O4'	29:D1:3131:U:H5'	1.96	0.66
29:D1:2942:C:C6	29:D1:2942:C:C3'	2.79	0.66
29:D1:3179:U:O5'	29:D1:3179:U:H6	1.79	0.66
29:D1:3314:A:H2'	34:DC:119:TYR:C	2.20	0.66
29:D1:3387:U:H2'	29:D1:3388:C:H5	1.57	0.66
30:D2:14:U:H2'	30:D2:15:C:O5'	1.95	0.66
30:D2:64:A:H4'	30:D2:65:G:O5'	1.95	0.66
30:D2:91:G:N3	30:D2:92:A:C8	2.64	0.66
35:DD:100:PHE:O	35:DD:102:PRO:N	2.29	0.66
48:DS:23:TRP:O	48:DS:50:ILE:HA	1.96	0.66
49:DT:100:LYS:C	49:DT:102:ARG:H	2.03	0.66
1:A1:100:A:OP2	1:A1:101:U:OP2	2.13	0.66
1:A1:140:A:OP2	1:A1:140:A:H4'	1.95	0.66
1:A1:322:G:O4'	1:A1:323:A:H8	1.79	0.66
1:A1:385:A:OP2	1:A1:385:A:C8	2.49	0.66
1:A1:518:A:C8	1:A1:519:C:H5"	2.30	0.66
1:A1:557:G:C2'	1:A1:558:U:H4'	2.26	0.66
1:A1:824:G:H5"	1:A1:825:U:H5'	1.76	0.66
1:A1:1147:A:H2'	1:A1:1148:C:H6	1.61	0.66
1:A1:1351:G:C4	1:A1:1352:G:C8	2.83	0.66
1:A1:1454:G:C2'	1:A1:1455:G:H5'	2.25	0.66
1:A1:1457:C:C6	1:A1:1559:A:N6	2.61	0.66
1:A1:1632:C:C2	1:A1:1633:A:N7	2.63	0.66
1:A1:1756:A:O5'	1:A1:1756:A:C8	2.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:49:GLN:HA	8:AG:50:ILE:CB	2.26	0.66
29:B1:85:A:H4'	29:B1:86:G:OP1	1.95	0.66
29:B1:158:G:C5	29:B1:159:A:H1'	2.31	0.66
29:B1:666:A:C6	29:B1:667:C:C5	2.84	0.66
29:B1:724:U:H2'	29:B1:725:G:H8	1.59	0.66
29:B1:759:U:N3	29:B1:773:G:C6	2.64	0.66
29:B1:807:A:H3'	29:B1:807:A:C8	2.31	0.66
29:B1:818:C:C2'	29:B1:819:U:H5'	2.25	0.66
29:B1:846:A:C4	29:B1:847:A:C8	2.83	0.66
29:B1:938:C:C2'	29:B1:939:U:H5"	2.25	0.66
29:B1:965:A:C6	29:B1:966:U:C2	2.83	0.66
29:B1:1047:A:O2'	29:B1:1048:A:H5'	1.95	0.66
29:B1:1183:C:C2'	29:B1:1184:A:H5"	2.25	0.66
29:B1:1386:A:O2'	29:B1:1387:G:OP2	2.13	0.66
29:B1:1422:G:H2'	29:B1:1423:C:H6	1.60	0.66
29:B1:1471:U:H2'	29:B1:1472:U:C6	2.30	0.66
29:B1:1478:C:C5'	29:B1:1478:C:H6	2.09	0.66
29:B1:2596:U:H2'	29:B1:2597:U:H6	1.60	0.66
29:B1:2714:G:N2	29:B1:2751:G:C6	2.64	0.66
29:B1:3320:A:H2'	29:B1:3321:C:N1	2.11	0.66
31:B3:8:C:H2'	31:B3:9:A:C8	2.27	0.66
35:BD:89:ALA:O	35:BD:91:GLY:N	2.29	0.66
35:BD:252:GLU:C	35:BD:254:ALA:H	2.04	0.66
36:BE:35:ARG:HA	36:BE:38:THR:O	1.96	0.66
45:BP:142:SER:O	45:BP:146:GLY:N	2.28	0.66
51:BV:22:VAL:O	51:BV:23:ARG:O	2.13	0.66
54:BY:77:LYS:O	54:BY:79:TRP:N	2.29	0.66
1:C1:105:A:C2	74:C1:1916:OHX:N3	2.64	0.66
1:C1:139:C:H4'	1:C1:140:A:H4'	1.77	0.66
1:C1:374:U:C4	1:C1:375:U:C5	2.84	0.66
1:C1:588:U:H2'	1:C1:589:C:H6	1.61	0.66
1:C1:906:A:H2'	1:C1:907:A:O4'	1.96	0.66
1:C1:1507:G:C2	1:C1:1508:U:H1'	2.29	0.66
1:C1:1583:A:C2	1:C1:1585:U:C4	2.83	0.66
1:C1:1642:G:H2'	1:C1:1781:A:O2'	1.96	0.66
2:CA:169:SER:C	2:CA:171:GLY:N	2.51	0.66
3:CB:238:SER:O	3:CB:240:LEU:N	2.27	0.66
21:CT:240:VAL:HA	21:CT:256:THR:HA	1.77	0.66
29:D1:18:G:N2	31:D3:142:C:C2	2.64	0.66
29:D1:31:C:H2'	29:D1:32:U:H5'	1.77	0.66
29:D1:43:A:C6	29:D1:2802:A:H2	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:331:G:C6	31:D3:33:A:N1	2.64	0.66
29:D1:383:G:C3'	29:D1:385:A:OP2	2.44	0.66
29:D1:430:U:H2'	29:D1:431:U:H6	1.59	0.66
29:D1:736:A:H2'	29:D1:737:G:C8	2.30	0.66
29:D1:1054:A:OP1	74:D1:3591:OHX:N4	2.28	0.66
29:D1:1127:G:N2	29:D1:1132:C:N4	2.44	0.66
29:D1:1444:G:H2'	29:D1:1445:U:O5'	1.96	0.66
29:D1:2592:G:C6	74:D1:3463:OHX:N3	2.64	0.66
29:D1:2596:U:H2'	29:D1:2597:U:C6	2.30	0.66
29:D1:2732:G:H2'	29:D1:2733:A:O4'	1.95	0.66
29:D1:2985:C:H2'	29:D1:2986:U:C6	2.31	0.66
29:D1:3070:A:C5	29:D1:3071:U:C5	2.84	0.66
29:D1:3308:C:C5	29:D1:3309:G:C2	2.81	0.66
30:D2:11:A:H1'	30:D2:67:G:N2	2.06	0.66
34:DC:133:TYR:C	34:DC:135:ALA:H	2.03	0.66
34:DC:345:ASN:O	34:DC:347:SER:N	2.28	0.66
35:DD:10:SER:HA	35:DD:17:ALA:H	1.61	0.66
41:DJ:151:GLY:O	41:DJ:154:ARG:N	2.27	0.66
45:DP:83:ALA:O	45:DP:84:LEU:C	2.38	0.66
56:Da:28:ARG:O	56:Da:30:PRO:N	2.29	0.66
1:A1:50:C:C4	1:A1:424:C:C5	2.84	0.66
1:A1:71:A:C6	1:A1:83:G:N1	2.64	0.66
1:A1:156:A:H5'	1:A1:416:A:C8	2.31	0.66
1:A1:199:G:C4	1:A1:200:A:N7	2.63	0.66
1:A1:515:A:OP2	74:A1:1936:OHX:N1	2.28	0.66
1:A1:737:A:HO2'	1:A1:738:G:H8	1.41	0.66
1:A1:814:A:C4	1:A1:816:G:N2	2.64	0.66
1:A1:1242:A:H4'	10:AI:78:THR:HA	1.78	0.66
2:AA:198:MET:O	2:AA:200:ASP:HA	1.95	0.66
6:AE:130:THR:O	6:AE:132:ARG:N	2.28	0.66
9:AH:22:SER:O	9:AH:24:ASN:N	2.29	0.66
10:AI:67:ALA:HA	10:AI:68:PRO:C	2.20	0.66
29:B1:5:G:N2	31:B3:155:A:N3	2.44	0.66
29:B1:380:U:H2'	29:B1:381:U:C6	2.31	0.66
29:B1:536:U:H6	29:B1:536:U:OP2	1.77	0.66
29:B1:574:U:O2'	29:B1:575:G:OP1	2.08	0.66
29:B1:611:A:C3'	29:B1:612:U:H5"	2.15	0.66
29:B1:672:A:C6	29:B1:791:A:C6	2.84	0.66
29:B1:977:C:C2	29:B1:978:G:N7	2.64	0.66
29:B1:993:G:C8	29:B1:2637:A:C2	2.83	0.66
29:B1:1039:U:H2'	29:B1:1040:A:C8	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1144:U:O2'	29:B1:1145:G:OP2	2.11	0.66
29:B1:1157:G:C5'	29:B1:1157:G:H8	2.07	0.66
29:B1:1317:A:C4	29:B1:1319:G:C8	2.84	0.66
29:B1:1539:A:H2'	29:B1:1540:U:H5'	1.76	0.66
29:B1:1678:G:C8	29:B1:1678:G:OP2	2.49	0.66
29:B1:2276:G:C6	29:B1:2277:C:C4	2.84	0.66
29:B1:2443:A:H2'	29:B1:2444:C:C6	2.30	0.66
29:B1:2652:U:H2'	29:B1:2653:C:H6	1.60	0.66
29:B1:2738:A:H5"	29:B1:2739:A:OP2	1.96	0.66
29:B1:2889:C:O2'	29:B1:2890:A:H5'	1.96	0.66
29:B1:3238:G:C8	29:B1:3238:G:OP2	2.49	0.66
34:BC:93:VAL:O	34:BC:99:LEU:HA	1.95	0.66
35:BD:9:HIS:O	35:BD:17:ALA:HB3	1.96	0.66
36:BE:113:LEU:N	36:BE:114:GLY:HA3	2.11	0.66
44:BO:38:ARG:O	44:BO:39:ALA:O	2.12	0.66
45:BP:95:GLY:O	45:BP:97:ALA:N	2.28	0.66
62:Bg:33:GLN:O	62:Bg:34:HIS:CB	2.44	0.66
1:C1:497:G:H2'	1:C1:498:G:H5'	1.78	0.66
1:C1:527:A:P	1:C1:527:A:H3'	2.35	0.66
1:C1:916:U:C5	1:C1:917:U:C4	2.84	0.66
1:C1:1129:U:C5	1:C1:1130:G:N7	2.64	0.66
1:C1:1151:A:OP1	1:C1:1766:A:C2	2.49	0.66
1:C1:1339:C:C2'	1:C1:1340:U:H5'	2.26	0.66
1:C1:1552:U:H5'	1:C1:1553:G:OP2	1.95	0.66
1:C1:1557:U:OP2	1:C1:1560:U:O4	2.13	0.66
1:C1:1715:G:H2'	1:C1:1716:C:O4'	1.95	0.66
1:C1:1760:G:C6	1:C1:1761:U:C5	2.84	0.66
3:CB:107:SER:HA	3:CB:190:LEU:O	1.95	0.66
29:D1:383:G:C3'	29:D1:384:A:H5"	2.18	0.66
29:D1:420:G:H21	29:D1:2384:A:C3'	2.07	0.66
29:D1:498:A:O2'	29:D1:499:G:H5'	1.94	0.66
29:D1:545:U:H2'	29:D1:546:C:C5	2.31	0.66
29:D1:727:G:N2	29:D1:741:U:N3	2.43	0.66
29:D1:1038:C:H4'	29:D1:1038:C:OP1	1.96	0.66
29:D1:1079:A:H2'	29:D1:1080:A:H8	1.58	0.66
29:D1:1481:A:N7	29:D1:1859:A:N7	2.44	0.66
29:D1:1666:G:H2'	29:D1:1667:A:C8	2.31	0.66
29:D1:1689:U:C4	29:D1:1690:C:C5	2.84	0.66
29:D1:1728:G:N2	29:D1:1730:G:N2	2.42	0.66
29:D1:1875:G:C5	29:D1:1876:U:C5	2.84	0.66
29:D1:2129:U:H5"	29:D1:2130:G:OP2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2628:A:C1'	29:D1:2798:C:C4	2.78	0.66
29:D1:2667:A:H62	29:D1:2690:G:H1	1.41	0.66
29:D1:2673:A:N1	29:D1:2676:A:C8	2.64	0.66
29:D1:2725:U:H6	29:D1:2725:U:H3'	1.59	0.66
29:D1:2896:A:O2'	29:D1:2897:A:P	2.53	0.66
29:D1:2919:A:H3'	29:D1:2920:U:H5'	1.76	0.66
29:D1:3262:U:H2'	29:D1:3263:G:C8	2.26	0.66
30:D2:13:A:N3	30:D2:13:A:O4'	2.21	0.66
31:D3:19:C:C4	31:D3:20:U:C5	2.84	0.66
31:D3:144:G:O2'	31:D3:145:U:H5'	1.96	0.66
38:DG:237:ASN:O	38:DG:241:LYS:N	2.24	0.66
44:DO:85:THR:HA	44:DO:86:ASN:CB	2.24	0.66
49:DT:69:LYS:O	49:DT:71:SER:N	2.27	0.66
52:DW:88:MET:C	52:DW:90:ALA:H	2.04	0.66
57:Db:83:GLU:O	57:Db:85:LEU:N	2.28	0.66
1:A1:26:A:H2	1:A1:600:U:O2	1.79	0.66
1:A1:134:U:H3'	1:A1:135:A:H5"	1.78	0.66
1:A1:195:G:O2'	1:A1:196:G:H5"	1.96	0.66
1:A1:756:A:C5	1:A1:757:A:N7	2.63	0.66
1:A1:959:U:H1'	1:A1:960:U:OP1	1.96	0.66
1:A1:1256:A:H2'	1:A1:1256:A:N3	2.10	0.66
1:A1:1269:U:N3	1:A1:1432:U:O4'	2.29	0.66
1:A1:1727:G:C6	1:A1:1728:A:N6	2.64	0.66
5:AD:148:ARG:O	5:AD:157:ARG:HA	1.96	0.66
9:AH:99:GLN:O	9:AH:103:ARG:CB	2.44	0.66
29:B1:10:C:O2	29:B1:11:A:O4'	2.14	0.66
29:B1:395:A:H8	29:B1:395:A:OP1	1.79	0.66
29:B1:573:C:O2'	29:B1:574:U:H5'	1.95	0.66
29:B1:580:C:C2	29:B1:581:U:C5	2.82	0.66
29:B1:1056:U:H4'	30:B2:82:G:H4'	1.78	0.66
29:B1:1061:A:N6	29:B1:1062:A:N6	2.43	0.66
29:B1:1174:G:C6	29:B1:1318:A:C2	2.83	0.66
29:B1:1608:C:C2'	29:B1:1609:C:H5'	2.26	0.66
29:B1:1624:G:N2	29:B1:1625:A:N3	2.43	0.66
29:B1:1687:U:H6	29:B1:1687:U:P	2.18	0.66
29:B1:1846:C:O2	29:B1:1846:C:C2'	2.40	0.66
29:B1:2282:U:C6	29:B1:2282:U:H5'	2.30	0.66
29:B1:2593:A:C4'	29:B1:2594:C:H5'	2.24	0.66
29:B1:2714:G:C2	29:B1:2751:G:C2	2.84	0.66
29:B1:2719:U:C5	29:B1:2720:G:C5	2.84	0.66
29:B1:3086:A:H2'	29:B1:3087:A:O4'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3092:C:O2'	29:B1:3094:A:OP2	2.12	0.66
29:B1:3269:U:O2'	29:B1:3270:U:C5'	2.43	0.66
29:B1:3327:G:C6	29:B1:3328:G:N7	2.63	0.66
29:B1:3327:G:N3	29:B1:3328:G:C8	2.63	0.66
30:B2:24:A:H2'	30:B2:25:G:C8	2.30	0.66
34:BC:167:ARG:HA	74:BC:401:OHX:N4	2.10	0.66
36:BE:147:ASP:O	36:BE:148:ILE:C	2.39	0.66
37:BF:136:GLU:O	37:BF:138:GLN:N	2.29	0.66
54:BY:129:PHE:CB	54:BY:130:VAL:CA	2.73	0.66
1:C1:34:G:C5	1:C1:475:A:N6	2.64	0.66
1:C1:529:A:C8	1:C1:529:A:OP2	2.49	0.66
1:C1:636:A:N1	1:C1:860:U:C4	2.63	0.66
1:C1:1075:C:C4	1:C1:1076:A:C6	2.84	0.66
1:C1:1094:G:C2	1:C1:1095:U:C4	2.84	0.66
1:C1:1321:A:C6	2:CA:105:GLY:HA3	2.30	0.66
13:CL:65:GLU:O	13:CL:67:GLU:N	2.27	0.66
13:CL:75:ASN:O	13:CL:78:HIS:O	2.13	0.66
29:D1:244:G:C6	29:D1:245:U:O2	2.49	0.66
29:D1:504:A:C2	29:D1:587:U:N3	2.43	0.66
29:D1:560:G:HO2'	29:D1:561:C:H5'	1.61	0.66
29:D1:594:U:O4	29:D1:610:G:O5'	2.13	0.66
29:D1:625:G:H5'	29:D1:625:G:C8	2.28	0.66
29:D1:771:A:H3'	29:D1:772:U:H5'	1.77	0.66
29:D1:1210:U:C2'	29:D1:1211:U:H5'	2.25	0.66
29:D1:1257:C:H3'	29:D1:1258:U:H6	1.60	0.66
29:D1:1303:A:H4'	29:D1:1303:A:OP1	1.96	0.66
29:D1:1351:U:O2	29:D1:1352:A:C5	2.49	0.66
29:D1:1728:G:H5'	29:D1:1730:G:O4'	1.96	0.66
29:D1:1913:A:C4	29:D1:2120:A:N7	2.64	0.66
29:D1:2197:C:N4	29:D1:2241:U:H2'	2.11	0.66
29:D1:2232:A:H1'	29:D1:2429:G:H5'	1.77	0.66
29:D1:2725:U:C4	29:D1:2727:A:C2	2.84	0.66
29:D1:2909:U:C4	29:D1:2910:A:N7	2.64	0.66
29:D1:3058:U:O4'	29:D1:3058:U:O2	2.10	0.66
29:D1:3209:A:C6	29:D1:3210:A:N1	2.64	0.66
29:D1:3303:G:C4'	29:D1:3304:U:OP1	2.40	0.66
29:D1:3305:A:H2'	29:D1:3306:U:O2	1.95	0.66
33:DB:12:ALA:O	33:DB:14:SER:N	2.28	0.66
34:DC:93:VAL:CB	34:DC:156:SER:H	2.09	0.66
47:DR:24:VAL:O	47:DR:27:LYS:N	2.29	0.66
50:DU:129:VAL:O	50:DU:133:SER:CB	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:148:A:O5'	1:A1:149:C:H5	1.78	0.66
1:A1:176:C:H3'	1:A1:177:U:C6	2.31	0.66
1:A1:212:U:C2'	1:A1:213:A:H5'	2.25	0.66
1:A1:252:U:O2'	1:A1:253:A:O5'	2.14	0.66
1:A1:479:C:H3'	1:A1:480:G:C8	2.31	0.66
1:A1:841:U:C4	1:A1:842:C:C4	2.84	0.66
1:A1:992:A:C4	1:A1:1013:A:C2	2.83	0.66
1:A1:1003:A:N7	1:A1:1005:A:C2	2.64	0.66
1:A1:1049:U:H2'	1:A1:1050:G:C8	2.30	0.66
1:A1:1385:G:H2'	1:A1:1386:G:H8	1.61	0.66
1:A1:1552:U:N3	1:A1:1553:G:C4	2.63	0.66
1:A1:1593:A:O2'	1:A1:1594:G:H5'	1.95	0.66
1:A1:1788:G:H8	1:A1:1788:G:OP2	1.79	0.66
14:AM:134:ARG:O	14:AM:137:ALA:N	2.28	0.66
29:B1:20:A:O2'	29:B1:21:G:C5'	2.44	0.66
29:B1:120:G:H3'	29:B1:121:A:N3	2.10	0.66
29:B1:373:A:C6	29:B1:375:A:N6	2.64	0.66
29:B1:550:A:H2'	29:B1:551:A:C8	2.29	0.66
29:B1:716:A:H3'	29:B1:717:C:H4'	1.78	0.66
29:B1:726:G:N1	29:B1:727:G:O6	2.29	0.66
29:B1:742:G:C3'	29:B1:743:C:H5"	2.26	0.66
29:B1:889:U:H2'	29:B1:890:C:H6	1.61	0.66
29:B1:1172:G:O2'	29:B1:1173:U:H5'	1.94	0.66
29:B1:1461:A:C4	29:B1:1462:A:C8	2.83	0.66
29:B1:2638:C:C2	29:B1:2639:G:C8	2.84	0.66
29:B1:2673:A:C2	29:B1:2674:A:C6	2.84	0.66
29:B1:2755:C:H2'	29:B1:2755:C:O2	1.95	0.66
29:B1:2909:U:C5	29:B1:2910:A:N7	2.63	0.66
29:B1:2912:G:O6	29:B1:3130:A:C6	2.49	0.66
29:B1:2918:G:N2	29:B1:2919:A:C8	2.63	0.66
29:B1:3035:A:C5	29:B1:3036:G:N7	2.64	0.66
29:B1:3045:G:H2'	29:B1:3046:A:O5'	1.96	0.66
29:B1:3174:A:OP2	29:B1:3174:A:C4'	2.44	0.66
29:B1:3202:G:O2'	29:B1:3203:U:H5'	1.95	0.66
30:B2:22:A:C5	30:B2:23:A:C6	2.83	0.66
30:B2:91:G:N3	30:B2:92:A:C8	2.64	0.66
30:B2:115:G:H2'	30:B2:115:G:N3	2.11	0.66
31:B3:72:A:H62	31:B3:85:G:N2	1.94	0.66
36:BE:126:GLU:C	36:BE:128:GLU:N	2.53	0.66
43:BN:73:PRO:O	43:BN:75:GLY:N	2.29	0.66
45:BP:97:ALA:O	45:BP:100:GLU:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:116:HIS:O	46:BQ:148:LEU:HA	1.95	0.66
63:Bh:39:UNK:HA	63:Bh:42:UNK:CB	2.26	0.66
1:C1:134:U:H3'	1:C1:135:A:H5"	1.78	0.66
1:C1:212:U:C2'	1:C1:213:A:H5'	2.25	0.66
1:C1:224:C:C2'	1:C1:225:A:H8	2.08	0.66
1:C1:817:A:C2	1:C1:855:A:H2	2.13	0.66
1:C1:1138:A:N3	1:C1:1139:A:C8	2.64	0.66
1:C1:1196:A:C4'	1:C1:1197:C:H5"	2.20	0.66
1:C1:1636:C:N3	1:C1:1765:A:N6	2.43	0.66
1:C1:1650:U:H3'	1:C1:1651:A:C8	2.30	0.66
1:C1:1746:A:H3'	1:C1:1747:G:H8	1.60	0.66
1:C1:1783:C:H2'	1:C1:1784:C:H6	1.60	0.66
2:CA:139:VAL:O	2:CA:141:ILE:N	2.29	0.66
16:CO:37:PHE:C	16:CO:39:GLN:N	2.52	0.66
29:D1:145:G:N3	29:D1:145:G:H2'	2.09	0.66
29:D1:306:A:C2	29:D1:307:A:C8	2.83	0.66
29:D1:591:G:N1	29:D1:592:A:C4	2.63	0.66
29:D1:707:U:O2'	29:D1:752:C:O2	2.14	0.66
29:D1:915:A:C8	29:D1:916:G:H4'	2.31	0.66
29:D1:1224:C:H5	29:D1:1285:G:C6	2.14	0.66
29:D1:1364:C:H2'	29:D1:1365:G:C8	2.31	0.66
29:D1:1412:G:C5	29:D1:1413:G:N7	2.63	0.66
29:D1:2326:A:C6	29:D1:2327:U:C5	2.83	0.66
29:D1:2650:U:H2'	29:D1:2650:U:O2	1.96	0.66
29:D1:2806:U:O2'	29:D1:2807:U:H5'	1.96	0.66
29:D1:3132:C:O2'	29:D1:3133:C:H5'	1.96	0.66
29:D1:3212:C:N3	29:D1:3213:A:C2	2.60	0.66
29:D1:3325:G:H2'	29:D1:3326:G:O4'	1.96	0.66
29:D1:3327:G:N3	29:D1:3328:G:N7	2.43	0.66
30:D2:22:A:C6	30:D2:23:A:C6	2.83	0.66
33:DB:102:LEU:O	33:DB:104:LEU:N	2.29	0.66
1:A1:126:A:N6	1:A1:292:U:C2	2.64	0.66
1:A1:312:A:H2	1:A1:314:C:H2'	1.60	0.66
1:A1:320:U:OP2	1:A1:322:G:H5"	1.96	0.66
1:A1:375:U:H2'	1:A1:375:U:O2	1.96	0.66
1:A1:427:C:H6	1:A1:427:C:H5"	1.58	0.66
1:A1:687:G:N2	1:A1:688:G:C4	2.64	0.66
1:A1:955:A:H2'	1:A1:956:C:O4'	1.96	0.66
1:A1:1138:A:N3	1:A1:1139:A:N7	2.44	0.66
1:A1:1332:C:O2'	1:A1:1333:C:H6	1.79	0.66
1:A1:1337:A:H5'	1:A1:1338:C:OP2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:21:ALA:N	9:AH:85:ALA:HB2	2.11	0.66
29:B1:77:A:C2	29:B1:78:U:H1'	2.31	0.66
29:B1:86:G:H22	29:B1:98:G:C2'	2.06	0.66
29:B1:398:A:C2	29:B1:1415:U:H5"	2.30	0.66
29:B1:519:A:H62	37:BF:30:LEU:HA	1.61	0.66
29:B1:592:A:C5	29:B1:593:C:C6	2.84	0.66
29:B1:592:A:H3'	29:B1:593:C:H4'	1.73	0.66
29:B1:773:G:N2	29:B1:774:G:C4	2.64	0.66
29:B1:840:C:H2'	29:B1:841:A:H5'	1.77	0.66
29:B1:891:G:C6	29:B1:892:U:C4	2.84	0.66
29:B1:1169:A:C2	29:B1:1330:A:C5	2.84	0.66
29:B1:1287:A:C6	29:B1:1288:U:C4	2.83	0.66
29:B1:1303:A:OP1	29:B1:1303:A:H4'	1.95	0.66
29:B1:1349:G:O2'	29:B1:1350:A:OP2	2.14	0.66
29:B1:1585:C:O2'	29:B1:1586:G:H5'	1.96	0.66
29:B1:2421:U:C4	29:B1:2422:C:C5	2.84	0.66
29:B1:2674:A:P	42:BK:106:ILE:O	2.54	0.66
29:B1:3178:A:O2'	29:B1:3179:U:OP1	2.12	0.66
30:B2:94:C:O2	30:B2:95:A:C8	2.49	0.66
30:B2:106:U:O2	30:B2:107:C:C6	2.49	0.66
31:B3:109:A:C2	31:B3:114:G:C6	2.83	0.66
34:BC:193:ASP:C	34:BC:195:ALA:N	2.49	0.66
40:BI:63:LYS:O	40:BI:64:HIS:C	2.38	0.66
40:BI:90:MET:HA	40:BI:181:VAL:HA	1.77	0.66
46:BQ:50:GLN:O	46:BQ:54:HIS:N	2.28	0.66
47:BR:45:ASN:O	47:BR:48:VAL:N	2.28	0.66
48:BS:25:ASP:C	48:BS:27:ASN:N	2.52	0.66
1:C1:129:U:H5	1:C1:264:G:C6	2.08	0.66
1:C1:223:U:H5'	1:C1:224:C:OP2	1.96	0.66
1:C1:243:G:C2	1:C1:251:A:C6	2.77	0.66
1:C1:1327:C:C2'	1:C1:1328:G:H5'	2.25	0.66
1:C1:1602:C:H3'	1:C1:1603:U:C6	2.27	0.66
1:C1:1752:U:C2'	1:C1:1753:A:H8	2.05	0.66
1:C1:1767:G:O2'	1:C1:1768:G:OP2	2.12	0.66
1:C1:1779:U:O2'	1:C1:1780:G:P	2.53	0.66
29:D1:585:A:C6	29:D1:586:C:N4	2.64	0.66
29:D1:597:G:C2	29:D1:607:A:H2	2.14	0.66
29:D1:832:G:C2	29:D1:863:C:C2	2.84	0.66
29:D1:840:C:H2'	29:D1:841:A:H5'	1.78	0.66
29:D1:972:A:O2'	29:D1:973:A:H5'	1.94	0.66
29:D1:1152:G:O2'	29:D1:1153:A:OP1	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1294:A:O2'	29:D1:1295:G:O5'	2.13	0.66
29:D1:1302:A:C1'	29:D1:2887:A:C2	2.79	0.66
29:D1:1330:A:N1	29:D1:1332:A:H1'	2.11	0.66
29:D1:1811:G:C6	29:D1:1812:G:C8	2.84	0.66
29:D1:1907:C:H2'	29:D1:1908:A:H5'	1.78	0.66
29:D1:2562:A:H2'	29:D1:2563:G:H8	1.60	0.66
29:D1:2761:G:H22	29:D1:2795:U:H2'	1.61	0.66
29:D1:2847:A:N7	29:D1:2898:G:C5	2.64	0.66
29:D1:2980:U:C2'	29:D1:2981:U:H5'	2.26	0.66
29:D1:3201:C:C2	29:D1:3202:G:N7	2.64	0.66
29:D1:3390:G:C4	29:D1:3391:A:C8	2.84	0.66
31:D3:65:A:C5	31:D3:66:A:C5	2.84	0.66
31:D3:72:A:H62	31:D3:85:G:H21	1.44	0.66
34:DC:50:LYS:CB	34:DC:334:ARG:H	2.08	0.66
54:DY:72:VAL:C	54:DY:74:ASN:H	2.03	0.66
1:A1:63:G:H5'	1:A1:170:U:C4	2.32	0.65
1:A1:228:G:O2'	1:A1:229:U:C6	2.49	0.65
1:A1:789:A:C4	1:A1:790:U:C6	2.83	0.65
1:A1:861:U:H5	1:A1:862:A:C8	2.10	0.65
1:A1:999:U:H2'	1:A1:1000:C:O2	1.96	0.65
1:A1:1166:A:H5"	1:A1:1167:G:OP2	1.96	0.65
1:A1:1202:A:N6	1:A1:1457:C:OP1	2.30	0.65
1:A1:1429:G:H2'	1:A1:1430:U:C6	2.29	0.65
1:A1:1603:U:O2	1:A1:1603:U:H2'	1.95	0.65
1:A1:1746:A:H3'	1:A1:1747:G:H8	1.60	0.65
1:A1:1750:A:C5	1:A1:1751:C:C5	2.83	0.65
1:A1:1780:G:H1'	29:B1:2262:A:C2'	2.25	0.65
14:AM:55:TYR:O	14:AM:58:ALA:HB3	1.96	0.65
29:B1:542:G:C2	29:B1:543:C:C4	2.84	0.65
29:B1:592:A:N3	29:B1:593:C:N1	2.42	0.65
29:B1:887:G:C6	29:B1:888:A:C6	2.84	0.65
29:B1:1389:G:O2'	29:B1:1390:A:O5'	2.13	0.65
29:B1:1785:U:O2'	29:B1:1786:G:H8	1.79	0.65
29:B1:2223:A:C2	29:B1:2224:A:C4	2.84	0.65
29:B1:2424:A:OP2	29:B1:2424:A:H8	1.79	0.65
29:B1:2690:G:O2'	29:B1:2691:A:OP1	2.14	0.65
29:B1:2908:G:C5	29:B1:2909:U:C5	2.84	0.65
29:B1:2987:A:C5	29:B1:2988:C:C5	2.84	0.65
29:B1:3176:G:C2'	29:B1:3177:G:C5'	2.73	0.65
29:B1:3240:C:O2'	29:B1:3241:G:H5'	1.95	0.65
29:B1:3276:G:H2'	29:B1:3277:U:O4'	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3281:U:C4	29:B1:3282:U:O4	2.50	0.65
29:B1:3368:U:H5'	29:B1:3368:U:H6	1.61	0.65
29:B1:3386:G:O5'	29:B1:3386:G:C8	2.48	0.65
30:B2:79:A:H1'	30:B2:102:A:N6	2.11	0.65
33:BB:102:LEU:O	33:BB:104:LEU:N	2.29	0.65
34:BC:295:ALA:H	34:BC:305:ILE:H	1.42	0.65
35:BD:20:LEU:O	35:BD:21:PRO:CB	2.42	0.65
36:BE:194:LEU:O	36:BE:196:ARG:N	2.29	0.65
40:BI:73:SER:O	40:BI:76:ASP:N	2.27	0.65
45:BP:74:ARG:O	45:BP:75:ALA:O	2.14	0.65
45:BP:124:LEU:CB	45:BP:128:ARG:N	2.59	0.65
52:BW:69:SER:O	52:BW:71:THR:N	2.30	0.65
1:C1:115:G:H21	1:C1:334:G:H21	1.43	0.65
1:C1:269:G:H2'	1:C1:270:C:H6	1.61	0.65
1:C1:1032:G:H2'	1:C1:1033:C:H6	1.61	0.65
1:C1:1049:U:H2'	1:C1:1050:G:H8	1.61	0.65
1:C1:1345:A:N7	1:C1:1347:U:N3	2.45	0.65
1:C1:1612:U:H3'	1:C1:1613:U:H5"	1.78	0.65
1:C1:1684:U:C4	1:C1:1721:A:H2	2.13	0.65
17:CP:58:GLY:HA2	17:CP:70:LYS:HA	1.78	0.65
29:D1:8:C:C2	29:D1:9:U:H5	2.13	0.65
29:D1:264:G:H3'	29:D1:265:A:H8	1.57	0.65
29:D1:354:U:OP2	29:D1:364:G:N1	2.28	0.65
29:D1:422:A:N3	29:D1:422:A:O4'	2.24	0.65
29:D1:656:A:H3'	29:D1:657:A:C8	2.31	0.65
29:D1:675:C:O2	29:D1:679:U:H5'	1.95	0.65
29:D1:1152:G:O5'	29:D1:1152:G:C8	2.47	0.65
29:D1:1198:C:C6	29:D1:1200:A:H8	2.14	0.65
29:D1:1278:A:HO2'	29:D1:1279:C:H6	0.73	0.65
29:D1:1349:G:O2'	29:D1:1350:A:OP2	2.14	0.65
29:D1:1656:A:H1'	29:D1:1657:C:C5	2.31	0.65
29:D1:1899:G:N3	29:D1:2334:U:C5	2.64	0.65
29:D1:1901:A:H4'	29:D1:2918:G:H4'	1.78	0.65
29:D1:1948:G:C2	29:D1:1949:G:N7	2.64	0.65
29:D1:2112:U:H1'	29:D1:2113:A:OP2	1.95	0.65
29:D1:2147:A:OP1	33:DB:199:THR:N	2.26	0.65
29:D1:2766:U:H2'	29:D1:2767:U:H6	1.58	0.65
29:D1:3180:A:C8	45:DP:114:LYS:CB	2.78	0.65
29:D1:3246:G:H2'	29:D1:3247:G:H8	1.59	0.65
29:D1:3299:A:HO2'	29:D1:3300:U:P	2.18	0.65
29:D1:3334:U:O2	29:D1:3335:A:C4	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:12:U:H3'	30:D2:13:A:N1	2.10	0.65
30:D2:23:A:C2'	30:D2:24:A:C8	2.79	0.65
30:D2:75:G:OP1	74:D2:201:OHX:N1	2.28	0.65
35:DD:134:LEU:O	35:DD:136:LEU:N	2.28	0.65
44:DO:38:ARG:O	44:DO:39:ALA:O	2.13	0.65
44:DO:187:ARG:CB	44:DO:188:ARG:CB	2.74	0.65
1:A1:175:G:C5	74:A1:1915:OHX:N2	2.64	0.65
1:A1:213:A:H2'	1:A1:214:G:H5'	1.78	0.65
1:A1:480:G:O2'	1:A1:481:A:H5'	1.94	0.65
1:A1:1142:A:O2'	1:A1:1143:A:O4'	2.07	0.65
1:A1:1183:A:H2'	1:A1:1210:C:O2'	1.95	0.65
1:A1:1691:A:C6	1:A1:1713:G:C2	2.84	0.65
2:AA:169:SER:C	2:AA:171:GLY:N	2.45	0.65
5:AD:140:THR:O	5:AD:171:ALA:HB1	1.97	0.65
6:AE:99:LEU:O	6:AE:101:VAL:N	2.29	0.65
29:B1:318:A:H8	29:B1:318:A:OP2	1.79	0.65
29:B1:351:A:H8	31:B3:53:A:H1'	1.61	0.65
29:B1:406:G:N2	31:B3:16:G:C4	2.64	0.65
29:B1:1102:A:O3'	29:B1:1103:A:H4'	1.95	0.65
29:B1:1194:G:H2'	29:B1:1309:U:O2	1.95	0.65
29:B1:1428:A:OP2	54:BY:1:MET:CB	2.44	0.65
29:B1:1441:G:C2'	29:B1:1442:U:C5'	2.59	0.65
29:B1:1830:G:C4	29:B1:1831:U:C6	2.83	0.65
29:B1:2221:G:H3'	29:B1:2221:G:C8	2.31	0.65
29:B1:2299:A:C4	29:B1:2300:G:C8	2.84	0.65
29:B1:2436:U:H5'	29:B1:2437:G:OP2	1.94	0.65
29:B1:2716:U:C3'	29:B1:2717:U:H5"	2.26	0.65
29:B1:3314:A:H2'	34:BC:119:TYR:C	2.22	0.65
29:B1:3333:G:H1	29:B1:3370:A:C4'	2.09	0.65
34:BC:68:HIS:O	34:BC:69:LYS:C	2.39	0.65
34:BC:193:ASP:O	34:BC:195:ALA:N	2.28	0.65
38:BG:238:LYS:HA	38:BG:241:LYS:CB	2.26	0.65
45:BP:190:VAL:C	45:BP:192:LYS:N	2.54	0.65
60:Be:10:LYS:O	60:Be:13:MET:N	2.29	0.65
1:C1:228:G:O2'	1:C1:229:U:H6	1.75	0.65
1:C1:742:U:O2'	1:C1:744:U:H5	1.80	0.65
1:C1:879:G:H5'	8:CG:108:ASP:HA	1.78	0.65
1:C1:974:A:OP1	29:D1:848:A:O2'	2.11	0.65
1:C1:1041:G:O2'	1:C1:1042:G:H5'	1.96	0.65
1:C1:1144:U:H2'	1:C1:1145:U:H6	1.62	0.65
1:C1:1160:A:C4	1:C1:1161:C:C5	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1330:G:C4	1:C1:1331:A:C8	2.84	0.65
1:C1:1458:G:H5"	1:C1:1459:C:H5	1.58	0.65
1:C1:1467:C:C2'	1:C1:1468:U:H5'	2.25	0.65
1:C1:1602:C:H5'	1:C1:1603:U:OP2	1.97	0.65
3:CB:160:GLY:O	3:CB:209:ASN:HA	1.96	0.65
3:CB:188:LEU:O	3:CB:189:GLN:C	2.38	0.65
17:CP:48:HIS:O	17:CP:49:ALA:HB2	1.95	0.65
29:D1:69:C:N3	29:D1:70:A:H1'	2.11	0.65
29:D1:314:U:H2'	29:D1:315:C:H6	1.61	0.65
29:D1:425:G:O6	29:D1:635:G:C6	2.49	0.65
29:D1:594:U:O2	29:D1:594:U:H2'	1.95	0.65
29:D1:672:A:C6	29:D1:791:A:C6	2.83	0.65
29:D1:880:G:OP2	46:DQ:131:ARG:HA	1.94	0.65
29:D1:1254:C:H5	29:D1:1263:A:OP1	1.79	0.65
29:D1:1262:G:C8	29:D1:1262:G:OP2	2.49	0.65
29:D1:1406:A:C2	29:D1:1407:A:C6	2.84	0.65
29:D1:1688:U:C2'	29:D1:1689:U:C5	2.78	0.65
29:D1:2148:U:H3'	29:D1:2187:G:N2	2.11	0.65
29:D1:2285:C:C5	29:D1:2286:U:N3	2.65	0.65
29:D1:2361:A:N6	29:D1:2377:G:C6	2.64	0.65
29:D1:2696:A:N7	29:D1:2697:A:C5	2.64	0.65
29:D1:2861:U:H2'	29:D1:2862:U:O4'	1.95	0.65
29:D1:3057:U:H5'	29:D1:3086:A:N6	2.11	0.65
29:D1:3097:C:O2'	29:D1:3098:G:P	2.53	0.65
29:D1:3102:G:C2	29:D1:3103:A:C4	2.85	0.65
29:D1:3133:C:H2'	29:D1:3134:A:O4'	1.96	0.65
29:D1:3210:A:C6	29:D1:3211:C:N4	2.64	0.65
29:D1:3295:A:H2'	29:D1:3296:A:H8	1.61	0.65
29:D1:3373:U:C4	29:D1:3374:U:C5	2.85	0.65
30:D2:24:A:H2'	30:D2:25:G:C8	2.31	0.65
30:D2:33:U:O2'	30:D2:34:C:N1	2.29	0.65
31:D3:70:G:C8	31:D3:71:A:N6	2.63	0.65
36:DE:194:LEU:O	36:DE:195:LEU:C	2.39	0.65
36:DE:241:THR:O	36:DE:243:ALA:N	2.30	0.65
38:DG:159:GLN:O	38:DG:160:ARG:O	2.13	0.65
45:DP:94:ARG:O	45:DP:95:GLY:C	2.38	0.65
57:Db:42:VAL:C	57:Db:44:ARG:N	2.51	0.65
1:A1:16:G:C2	1:A1:17:C:C4	2.84	0.65
1:A1:1232:U:H3'	1:A1:1232:U:O2	1.96	0.65
1:A1:1570:A:C2	1:A1:1571:C:H1'	2.31	0.65
21:AT:35:SER:CB	21:AT:43:ILE:O	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:64:G:HO2'	29:B1:77:A:H1'	1.61	0.65
29:B1:66:A:H2	29:B1:77:A:O3'	1.78	0.65
29:B1:315:C:H2'	29:B1:316:U:C6	2.31	0.65
29:B1:1281:G:C8	29:B1:1281:G:OP2	2.48	0.65
29:B1:2173:U:C4	29:B1:2174:G:C6	2.84	0.65
29:B1:2676:A:C2	29:B1:2680:A:N1	2.64	0.65
29:B1:2912:G:C6	29:B1:3130:A:C4	2.84	0.65
29:B1:2912:G:C5	29:B1:2913:C:C2	2.84	0.65
29:B1:3215:A:O5'	29:B1:3218:A:C4'	2.44	0.65
29:B1:3269:U:O2'	29:B1:3270:U:H5'	1.96	0.65
29:B1:3309:G:C4	29:B1:3310:A:C8	2.84	0.65
29:B1:3328:G:H2'	29:B1:3328:G:N3	2.10	0.65
30:B2:33:U:O2'	30:B2:34:C:C6	2.49	0.65
31:B3:123:G:H3'	31:B3:124:G:H5"	1.79	0.65
34:BC:106:TRP:O	34:BC:107:ALA:C	2.39	0.65
45:BP:18:ARG:C	45:BP:20:ALA:N	2.48	0.65
54:BY:137:LYS:O	54:BY:140:ALA:CB	2.44	0.65
55:BZ:45:ALA:HA	55:BZ:70:PHE:CB	2.26	0.65
56:Ba:29:ALA:HB2	56:Ba:64:VAL:O	1.96	0.65
1:C1:378:A:N3	1:C1:378:A:H2'	2.09	0.65
1:C1:1179:G:N2	1:C1:1461:C:N4	2.45	0.65
1:C1:1454:G:H2'	1:C1:1455:G:H5'	1.78	0.65
1:C1:1685:G:N2	1:C1:1686:C:C2	2.64	0.65
13:CL:121:ALA:O	13:CL:124:GLY:N	2.19	0.65
21:CT:289:ALA:CA	21:CT:305:TYR:HA	2.15	0.65
29:D1:22:G:O2'	31:D3:40:A:N1	2.22	0.65
29:D1:146:U:C4	29:D1:147:U:C2	2.84	0.65
29:D1:542:G:C2	29:D1:543:C:C4	2.85	0.65
29:D1:556:U:C2'	29:D1:557:A:O4'	2.44	0.65
29:D1:642:U:C5	29:D1:644:G:P	2.89	0.65
29:D1:764:U:H4'	29:D1:766:U:H5	1.62	0.65
29:D1:1004:U:N3	29:D1:1005:G:N7	2.45	0.65
29:D1:1158:A:C3'	29:D1:1159:A:H5"	2.26	0.65
29:D1:1406:A:C2	29:D1:1407:A:C5	2.84	0.65
29:D1:2147:A:H5'	29:D1:2147:A:H8	1.61	0.65
29:D1:2256:A:O2'	29:D1:2257:C:P	2.53	0.65
29:D1:2374:C:C4	29:D1:2941:A:C4	2.85	0.65
29:D1:2768:U:C2'	29:D1:2769:A:H5'	2.27	0.65
29:D1:3025:C:C2'	29:D1:3026:G:H5'	2.26	0.65
29:D1:3176:G:O2'	29:D1:3177:G:H5"	1.96	0.65
29:D1:3211:C:H2'	29:D1:3212:C:C6	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3215:A:O5'	29:D1:3218:A:C4'	2.44	0.65
30:D2:9:C:C5	30:D2:10:C:O2	2.49	0.65
31:D3:24:G:N2	31:D3:25:G:H1'	2.11	0.65
31:D3:37:A:N6	31:D3:104:A:H2'	2.06	0.65
34:DC:175:LYS:O	34:DC:176:ALA:O	2.14	0.65
41:DJ:152:LEU:O	41:DJ:153:ARG:C	2.40	0.65
44:DO:53:TYR:O	44:DO:55:ALA:N	2.29	0.65
49:DT:77:ASN:HA	49:DT:87:LYS:O	1.97	0.65
56:Da:30:PRO:C	56:Da:32:ALA:H	2.03	0.65
1:A1:102:U:O4	1:A1:360:A:H2'	1.95	0.65
1:A1:225:A:N6	1:A1:836:U:H3	1.93	0.65
1:A1:289:U:O2	1:A1:289:U:C2'	2.43	0.65
1:A1:528:U:H4'	1:A1:529:A:C4'	2.27	0.65
1:A1:636:A:N1	1:A1:860:U:C4	2.64	0.65
1:A1:1165:G:O6	1:A1:1166:A:N6	2.30	0.65
1:A1:1515:A:H2'	1:A1:1516:A:C5'	2.26	0.65
1:A1:1718:G:H2'	1:A1:1719:A:C5'	2.24	0.65
10:AI:97:TYR:HA	10:AI:102:PHE:N	2.11	0.65
24:Ac:88:UNK:O	24:Ac:90:UNK:C	2.44	0.65
29:B1:400:G:C1'	29:B1:401:U:OP2	2.45	0.65
29:B1:514:G:H3'	29:B1:515:C:C6	2.30	0.65
29:B1:534:U:O5'	29:B1:534:U:C6	2.45	0.65
29:B1:789:A:C2	29:B1:790:U:C4	2.84	0.65
29:B1:824:C:O2'	29:B1:825:U:H5'	1.97	0.65
29:B1:1212:A:C6	29:B1:1294:A:C2	2.85	0.65
29:B1:1212:A:C2	29:B1:1294:A:C2	2.84	0.65
29:B1:1254:C:C2	29:B1:1255:C:C5	2.84	0.65
29:B1:1255:C:C5	74:B1:3567:OHX:N5	2.64	0.65
29:B1:1341:U:H2'	29:B1:1342:C:H6	1.62	0.65
29:B1:1623:G:H2'	29:B1:1624:G:O4'	1.95	0.65
29:B1:2553:U:O2	29:B1:2554:A:H2'	1.96	0.65
29:B1:2602:G:N3	29:B1:2603:G:C8	2.65	0.65
29:B1:2732:G:H2'	29:B1:2733:A:O4'	1.95	0.65
29:B1:2912:G:O6	29:B1:3130:A:C5	2.49	0.65
29:B1:2948:C:C6	29:B1:2948:C:H5"	2.30	0.65
29:B1:3180:A:C8	45:BP:114:LYS:CB	2.79	0.65
29:B1:3326:G:C2	29:B1:3327:G:C8	2.84	0.65
29:B1:3333:G:H22	29:B1:3370:A:C3'	2.08	0.65
30:B2:41:G:C6	30:B2:43:U:C4	2.85	0.65
31:B3:154:C:C2	31:B3:155:A:C8	2.84	0.65
38:BG:85:PHE:HA	38:BG:115:THR:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:247:ASP:O	39:BH:249:ARG:N	2.29	0.65
41:BJ:146:ASP:O	41:BJ:147:VAL:O	2.14	0.65
44:BO:159:ARG:O	44:BO:161:ALA:N	2.27	0.65
1:C1:89:G:C2	1:C1:90:C:C2	2.84	0.65
1:C1:166:C:C2'	1:C1:167:U:H5"	2.26	0.65
1:C1:243:G:N2	1:C1:251:A:N3	2.44	0.65
1:C1:259:U:C4	1:C1:261:U:O4	2.48	0.65
1:C1:482:U:H2'	1:C1:483:A:C8	2.32	0.65
1:C1:491:C:H2'	1:C1:492:A:C8	2.31	0.65
1:C1:557:G:H3'	1:C1:557:G:P	2.36	0.65
1:C1:647:G:N1	1:C1:687:G:N1	2.43	0.65
1:C1:734:A:H2'	1:C1:735:C:O4'	1.95	0.65
1:C1:845:G:O6	74:C1:1917:OHX:N4	2.29	0.65
1:C1:1683:C:O5'	1:C1:1684:U:OP1	2.15	0.65
11:CJ:46:PHE:C	11:CJ:48:VAL:N	2.54	0.65
24:Cc:77:UNK:C	24:Cc:79:UNK:N	2.54	0.65
29:D1:120:G:H3'	29:D1:121:A:N3	2.12	0.65
29:D1:313:A:H2'	29:D1:314:U:C6	2.32	0.65
29:D1:393:U:O2	29:D1:393:U:H2'	1.94	0.65
29:D1:610:G:N3	29:D1:610:G:C3'	2.57	0.65
29:D1:644:G:C4'	29:D1:1153:A:C2	2.56	0.65
29:D1:776:U:H3'	29:D1:777:U:C4'	2.26	0.65
29:D1:952:A:H5'	29:D1:952:A:H8	1.61	0.65
29:D1:953:G:C8	29:D1:1117:G:C8	2.84	0.65
29:D1:1336:U:O2'	29:D1:1337:A:H5'	1.96	0.65
29:D1:1504:A:C3'	29:D1:1505:C:H5"	2.26	0.65
29:D1:1544:G:N2	29:D1:1545:A:H1'	2.12	0.65
29:D1:1602:A:C6	29:D1:1603:A:C6	2.85	0.65
29:D1:1830:G:H2'	29:D1:1831:U:H6	1.60	0.65
29:D1:1933:A:C2'	29:D1:1934:G:H5'	2.26	0.65
29:D1:2192:C:HO2'	29:D1:2312:A:H2	1.42	0.65
29:D1:2675:C:H5	29:D1:2676:A:C6	2.15	0.65
29:D1:2680:A:N6	42:DK:56:THR:O	2.29	0.65
29:D1:2837:A:C8	29:D1:2845:A:C2	2.83	0.65
29:D1:3165:A:H2'	29:D1:3166:C:H5'	1.78	0.65
29:D1:3218:A:H2'	29:D1:3219:G:H3'	1.79	0.65
30:D2:67:G:C6	30:D2:68:C:N3	2.64	0.65
34:DC:4:ARG:C	34:DC:6:TYR:H	2.05	0.65
34:DC:332:ARG:O	34:DC:333:LYS:CB	2.44	0.65
47:DR:66:ARG:C	47:DR:68:ALA:H	2.02	0.65
49:DT:73:GLY:H	49:DT:92:ARG:HA	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:25:C:C4	1:A1:367:A:C1'	2.78	0.65
1:A1:228:G:C5	1:A1:229:U:C4	2.84	0.65
1:A1:448:C:C2'	1:A1:449:C:H6	1.97	0.65
1:A1:509:G:C4	1:A1:510:G:N7	2.64	0.65
1:A1:776:G:N1	1:A1:785:U:C2	2.65	0.65
1:A1:992:A:H2'	1:A1:993:A:C5'	2.17	0.65
1:A1:1250:U:N3	1:A1:1251:U:N3	2.45	0.65
1:A1:1402:G:C4	1:A1:1403:C:C5	2.84	0.65
1:A1:1715:G:H2'	1:A1:1716:C:O4'	1.97	0.65
15:AN:97:VAL:C	15:AN:99:ILE:H	2.05	0.65
29:B1:51:A:H2'	29:B1:52:A:H8	1.61	0.65
29:B1:331:G:N1	29:B1:332:C:C4	2.64	0.65
29:B1:379:C:H2'	29:B1:380:U:C6	2.31	0.65
29:B1:606:C:C2'	29:B1:607:A:C8	2.79	0.65
29:B1:606:C:C2'	29:B1:607:A:N9	2.60	0.65
29:B1:645:A:C8	29:B1:649:A:C6	2.85	0.65
29:B1:665:A:O2'	29:B1:666:A:H5'	1.95	0.65
29:B1:856:G:C6	29:B1:857:G:C2	2.84	0.65
29:B1:1297:C:C2'	29:B1:1298:C:H5'	2.23	0.65
29:B1:1313:G:H2'	29:B1:1314:C:C6	2.29	0.65
29:B1:1484:U:C1'	29:B1:1485:G:OP1	2.43	0.65
29:B1:1541:G:H4'	29:B1:1542:G:OP2	1.97	0.65
29:B1:1599:G:C2	29:B1:1600:U:O2	2.49	0.65
29:B1:1634:G:C6	29:B1:1640:G:O6	2.49	0.65
29:B1:1640:G:C5'	29:B1:1738:C:OP1	2.43	0.65
29:B1:1748:G:H2'	29:B1:1749:A:C8	2.31	0.65
29:B1:2365:C:H6	29:B1:2365:C:OP1	1.80	0.65
29:B1:2779:A:H8	29:B1:2779:A:C5'	1.98	0.65
29:B1:2961:G:H5"	29:B1:2962:U:OP2	1.97	0.65
29:B1:2971:A:H4'	29:B1:2972:G:O5'	1.95	0.65
29:B1:3013:U:H5"	29:B1:3013:U:C6	2.32	0.65
29:B1:3191:G:C4	29:B1:3202:G:N2	2.65	0.65
29:B1:3209:A:C5	29:B1:3210:A:C6	2.84	0.65
29:B1:3289:G:N7	74:B1:3581:OHX:N3	2.45	0.65
30:B2:34:C:O2	30:B2:34:C:C2'	2.45	0.65
38:BG:75:TYR:CB	38:BG:76:TYR:CA	2.74	0.65
38:BG:160:ARG:C	38:BG:162:PRO:N	2.54	0.65
70:Bq:12:UNK:O	70:Bq:13:UNK:C	2.43	0.65
1:C1:142:G:O6	1:C1:266:A:C5	2.49	0.65
1:C1:243:G:H2'	1:C1:244:A:C8	2.28	0.65
1:C1:427:C:H5"	1:C1:427:C:C6	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:527:A:H3'	1:C1:527:A:OP2	1.96	0.65
1:C1:542:A:O2'	1:C1:543:C:O5'	2.12	0.65
1:C1:1170:G:O6	1:C1:1574:G:C6	2.50	0.65
1:C1:1347:U:H5'	15:CN:10:GLU:CA	2.22	0.65
1:C1:1734:U:C4	1:C1:1735:U:O4	2.49	0.65
1:C1:1793:G:O2'	1:C1:1794:A:P	2.55	0.65
3:CB:245:ASP:C	3:CB:247:ALA:N	2.54	0.65
5:CD:108:LEU:C	5:CD:110:ALA:H	2.04	0.65
9:CH:99:GLN:O	9:CH:103:ARG:CB	2.44	0.65
29:D1:46:U:H2'	29:D1:47:C:H5'	1.77	0.65
29:D1:557:A:N7	29:D1:559:A:N6	2.45	0.65
29:D1:606:C:C2'	29:D1:607:A:C8	2.79	0.65
29:D1:1480:G:H4'	29:D1:1481:A:OP2	1.97	0.65
29:D1:1728:G:H4'	29:D1:1729:A:OP2	1.97	0.65
29:D1:2113:A:N7	29:D1:2114:C:C4	2.64	0.65
29:D1:2515:A:N6	29:D1:2593:A:N7	2.44	0.65
29:D1:2626:A:C8	29:D1:2644:C:H5'	2.31	0.65
29:D1:2699:G:H2'	29:D1:2700:G:O4'	1.97	0.65
29:D1:2875:U:H5'	29:D1:2876:C:OP2	1.96	0.65
29:D1:2980:U:O2'	29:D1:2981:U:H5'	1.96	0.65
29:D1:3142:A:H5'	29:D1:3143:C:C5	2.31	0.65
29:D1:3314:A:C5'	34:DC:119:TYR:H	2.09	0.65
30:D2:25:G:H2'	30:D2:26:C:C5	2.31	0.65
34:DC:79:VAL:O	34:DC:321:PHE:HA	1.96	0.65
36:DE:144:VAL:O	36:DE:173:VAL:HA	1.96	0.65
42:DK:7:ASN:HA	42:DK:8:PRO:CB	2.26	0.65
59:Dd:68:LYS:C	59:Dd:70:VAL:H	2.03	0.65
1:A1:48:G:C6	1:A1:432:G:N2	2.65	0.65
1:A1:139:C:H4'	1:A1:140:A:H4'	1.78	0.65
1:A1:729:G:C5	1:A1:730:G:C8	2.85	0.65
1:A1:1025:A:H2'	1:A1:1027:A:C5'	2.26	0.65
1:A1:1455:G:C5	1:A1:1456:C:N3	2.64	0.65
1:A1:1602:C:H2'	1:A1:1602:C:O2	1.96	0.65
1:A1:1757:G:H2'	1:A1:1758:U:O5'	1.96	0.65
5:AD:153:GLY:HA3	5:AD:154:ALA:CB	2.26	0.65
13:AL:44:ASN:O	13:AL:48:LYS:CB	2.44	0.65
29:B1:51:A:O2'	29:B1:52:A:H5'	1.97	0.65
29:B1:190:U:C5	29:B1:224:C:C1'	2.78	0.65
29:B1:218:G:H1'	29:B1:372:A:H1'	1.78	0.65
29:B1:219:A:C2	29:B1:1390:A:H2'	2.31	0.65
29:B1:238:A:H8	29:B1:238:A:OP2	1.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:996:A:C6	29:B1:1054:A:C8	2.85	0.65
29:B1:1616:U:H2'	29:B1:1617:G:C8	2.32	0.65
29:B1:1639:C:H2'	29:B1:1640:G:O5'	1.97	0.65
29:B1:1691:U:H2'	29:B1:1692:U:C6	2.31	0.65
29:B1:1896:A:C4	29:B1:3093:C:C5	2.84	0.65
29:B1:2129:U:H5"	29:B1:2130:G:OP2	1.97	0.65
29:B1:2523:A:C4'	29:B1:2524:A:OP1	2.44	0.65
29:B1:2631:U:O2'	29:B1:2632:G:H5'	1.96	0.65
29:B1:2768:U:C2'	29:B1:2769:A:H5'	2.26	0.65
29:B1:3161:C:O2	29:B1:3161:C:H2'	1.96	0.65
29:B1:3299:A:N3	29:B1:3300:U:C6	2.64	0.65
30:B2:25:G:N1	30:B2:26:C:N4	2.43	0.65
32:BA:188:ASN:C	32:BA:190:PHE:H	2.05	0.65
37:BF:61:ASN:HA	37:BF:80:ASN:O	1.96	0.65
38:BG:32:ALA:O	38:BG:33:ARG:C	2.39	0.65
42:BK:134:PRO:O	42:BK:151:SER:O	2.14	0.65
46:BQ:128:ARG:N	46:BQ:139:TYR:H	1.95	0.65
1:C1:269:G:C4	1:C1:270:C:C5	2.84	0.65
1:C1:295:A:C2	1:C1:296:U:C2	2.84	0.65
1:C1:313:U:C5	1:C1:1118:G:C6	2.85	0.65
1:C1:320:U:OP1	1:C1:321:C:H4'	1.95	0.65
1:C1:489:C:H2'	1:C1:490:C:C5	2.30	0.65
1:C1:607:G:H5'	1:C1:613:G:N2	2.11	0.65
1:C1:1119:G:O2'	1:C1:1120:U:H5'	1.96	0.65
1:C1:1327:C:H2'	1:C1:1328:G:H5'	1.78	0.65
1:C1:1656:U:C6	1:C1:1656:U:OP2	2.49	0.65
18:CQ:57:TYR:CB	18:CQ:58:ARG:CA	2.73	0.65
29:D1:26:A:H2'	29:D1:27:C:H6	1.59	0.65
29:D1:564:G:H3'	29:D1:565:U:C5	2.30	0.65
29:D1:717:C:C5	29:D1:721:G:OP2	2.50	0.65
29:D1:835:G:C4	29:D1:857:G:N2	2.64	0.65
29:D1:965:A:N1	29:D1:966:U:C2	2.64	0.65
29:D1:974:G:C4	29:D1:975:C:C5	2.84	0.65
29:D1:1018:G:H2'	29:D1:1019:G:C8	2.32	0.65
29:D1:1199:C:N4	74:D1:3574:OHX:N3	2.45	0.65
29:D1:1338:C:N3	29:D1:1339:C:C5	2.65	0.65
29:D1:1703:U:H5'	29:D1:1704:A:OP2	1.96	0.65
29:D1:1867:A:H2'	29:D1:1868:G:C8	2.32	0.65
29:D1:1878:G:C8	29:D1:1878:G:H3'	2.31	0.65
29:D1:2254:U:O2	29:D1:2261:G:N2	2.29	0.65
29:D1:2374:C:N4	29:D1:2941:A:O4'	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2953:U:H2'	29:D1:2954:U:C6	2.31	0.65
29:D1:3196:U:C5	29:D1:3198:U:C5	2.84	0.65
31:D3:109:A:C2	31:D3:114:G:C6	2.85	0.65
34:DC:131:THR:O	34:DC:132:LYS:O	2.15	0.65
35:DD:153:SER:C	35:DD:155:ASP:H	2.05	0.65
45:DP:190:VAL:C	45:DP:192:LYS:N	2.53	0.65
47:DR:31:LYS:O	47:DR:35:PHE:N	2.27	0.65
58:Dc:16:GLN:C	58:Dc:18:ALA:N	2.50	0.65
1:A1:27:U:C2	1:A1:28:A:C8	2.85	0.65
1:A1:176:C:H3'	1:A1:177:U:H6	1.62	0.65
1:A1:290:G:O2'	1:A1:291:G:C8	2.50	0.65
1:A1:355:G:N2	1:A1:356:G:H1'	2.12	0.65
1:A1:621:A:H1'	1:A1:1107:G:O4'	1.97	0.65
1:A1:914:G:H5"	74:A1:1937:OHX:N5	2.12	0.65
1:A1:1388:A:C6	1:A1:1412:G:C6	2.85	0.65
1:A1:1468:U:HO2'	1:A1:1469:A:C5'	2.09	0.65
1:A1:1560:U:O2	1:A1:1561:U:C5	2.47	0.65
2:AA:171:GLY:O	2:AA:173:ILE:N	2.29	0.65
4:AC:27:ARG:O	4:AC:29:LEU:N	2.29	0.65
29:B1:246:U:H3'	29:B1:247:C:H5"	1.79	0.65
29:B1:586:C:O2	29:B1:586:C:C2'	2.42	0.65
29:B1:649:A:C2	29:B1:650:C:C4	2.85	0.65
29:B1:776:U:OP1	29:B1:777:U:OP2	2.14	0.65
29:B1:790:U:C2	29:B1:791:A:C8	2.84	0.65
29:B1:866:A:H3'	29:B1:867:G:H8	1.59	0.65
29:B1:966:U:H2'	29:B1:967:A:H8	1.56	0.65
29:B1:1018:G:H2'	29:B1:1019:G:C8	2.32	0.65
29:B1:1306:G:C6	45:BP:63:ALA:HA	2.31	0.65
29:B1:2619:G:H8	29:B1:2619:G:OP1	1.79	0.65
29:B1:2663:G:H3'	29:B1:2664:C:H6	1.62	0.65
29:B1:2676:A:C4'	29:B1:2677:G:C8	2.80	0.65
29:B1:2882:U:H2'	29:B1:2883:U:O5'	1.97	0.65
29:B1:2892:A:H2'	29:B1:2893:C:H6	1.62	0.65
29:B1:2895:G:O2'	29:B1:2896:A:H5"	1.96	0.65
29:B1:3196:U:C5	29:B1:3198:U:C5	2.85	0.65
29:B1:3280:U:O2'	29:B1:3281:U:P	2.55	0.65
29:B1:3294:A:N6	29:B1:3295:A:C5	2.65	0.65
29:B1:3356:G:H2'	29:B1:3357:U:O5'	1.96	0.65
30:B2:31:U:C6	30:B2:32:U:C5	2.84	0.65
31:B3:10:A:N3	31:B3:11:C:C6	2.64	0.65
31:B3:28:C:H2'	31:B3:28:C:O2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:66:A:C6	31:B3:67:U:O4	2.50	0.65
36:BE:20:PHE:O	36:BE:21:ARG:CB	2.45	0.65
37:BF:97:ASN:O	37:BF:98:VAL:C	2.40	0.65
42:BK:85:LYS:O	42:BK:86:VAL:C	2.40	0.65
45:BP:92:THR:O	45:BP:94:ARG:N	2.29	0.65
46:BQ:76:PHE:CA	46:BQ:78:VAL:H	2.07	0.65
47:BR:96:PHE:CA	47:BR:97:PRO:CB	2.73	0.65
50:BU:46:LEU:O	50:BU:47:ASN:CB	2.44	0.65
56:Ba:82:GLU:CB	56:Ba:83:GLU:CA	2.74	0.65
1:C1:119:A:H1'	1:C1:397:A:C8	2.30	0.65
1:C1:512:A:O2'	1:C1:513:U:O5'	2.15	0.65
1:C1:534:A:C2'	1:C1:535:A:C8	2.79	0.65
1:C1:899:G:N2	1:C1:915:A:H2	1.95	0.65
1:C1:981:U:H1'	1:C1:1124:A:C2	2.30	0.65
1:C1:1168:U:C2'	1:C1:1169:G:H5'	2.27	0.65
1:C1:1634:C:P	1:C1:1634:C:C6	2.89	0.65
1:C1:1694:A:H61	1:C1:1708:U:H2'	1.61	0.65
11:CJ:54:LEU:C	11:CJ:56:GLY:N	2.52	0.65
29:D1:161:G:H2'	29:D1:162:G:H8	1.61	0.65
29:D1:344:A:H2'	29:D1:345:G:O5'	1.97	0.65
29:D1:889:U:H2'	29:D1:890:C:H6	1.60	0.65
29:D1:935:U:H2'	29:D1:936:A:C8	2.31	0.65
29:D1:962:A:O2'	29:D1:963:G:H5"	1.96	0.65
29:D1:1461:A:C6	29:D1:1462:A:C5	2.85	0.65
29:D1:1605:A:C2	29:D1:1608:C:C6	2.85	0.65
29:D1:2358:A:H2'	29:D1:2359:C:O4'	1.97	0.65
29:D1:2523:A:C4'	29:D1:2524:A:OP1	2.44	0.65
29:D1:3257:C:O2'	29:D1:3258:U:C5	2.49	0.65
29:D1:3261:C:O5'	29:D1:3262:U:OP1	2.14	0.65
29:D1:3333:G:C2	29:D1:3371:G:C8	2.84	0.65
30:D2:60:G:N3	30:D2:61:G:C8	2.65	0.65
34:DC:154:TYR:H	34:DC:155:ALA:CB	2.04	0.65
44:DO:146:ALA:C	44:DO:148:TYR:H	2.04	0.65
54:DY:77:LYS:O	54:DY:79:TRP:N	2.29	0.65
1:A1:450:U:C2	1:A1:451:A:N7	2.64	0.65
1:A1:557:G:H3'	1:A1:557:G:P	2.37	0.65
1:A1:1178:G:N2	1:A1:1462:G:C4	2.65	0.65
1:A1:1308:G:H2'	1:A1:1309:C:H6	1.61	0.65
1:A1:1364:G:C2'	1:A1:1365:C:H5'	2.26	0.65
1:A1:1493:A:H2'	1:A1:1493:A:N3	2.11	0.65
1:A1:1663:G:C4	1:A1:1664:C:C5	2.84	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:95:PRO:O	7:AF:96:LYS:C	2.40	0.65
21:AT:255:ALA:HA	21:AT:260:ILE:HA	1.78	0.65
21:AT:301:LEU:O	21:AT:312:VAL:HA	1.97	0.65
29:B1:28:C:H2'	29:B1:28:C:O2	1.95	0.65
29:B1:28:C:O2'	29:B1:61:A:H1'	1.97	0.65
29:B1:35:A:C6	29:B1:36:C:C5	2.85	0.65
29:B1:40:A:C8	54:BY:30:GLY:O	2.50	0.65
29:B1:135:C:H5'	29:B1:136:G:OP2	1.96	0.65
29:B1:785:G:OP1	29:B1:785:G:O4'	2.15	0.65
29:B1:1120:A:C2	29:B1:1121:U:C4	2.84	0.65
29:B1:1200:A:H3'	29:B1:1200:A:N3	2.12	0.65
29:B1:1280:C:H2'	29:B1:1281:G:N7	2.11	0.65
29:B1:1661:G:H5"	29:B1:1661:G:H8	1.62	0.65
29:B1:2148:U:O3'	29:B1:2149:A:C8	2.50	0.65
29:B1:2357:A:H2'	29:B1:2358:A:H8	1.62	0.65
29:B1:3308:C:H3'	29:B1:3308:C:C6	2.32	0.65
29:B1:3333:G:N1	29:B1:3370:A:O2'	2.29	0.65
29:B1:3353:G:H3'	29:B1:3354:U:C5'	2.26	0.65
29:B1:3391:A:C2	29:B1:3392:U:C5	2.84	0.65
31:B3:34:U:O2	31:B3:34:U:C2'	2.45	0.65
35:BD:100:PHE:O	35:BD:102:PRO:N	2.30	0.65
53:BX:64:LYS:C	53:BX:66:GLN:H	2.05	0.65
56:Ba:30:PRO:O	56:Ba:32:ALA:N	2.29	0.65
57:Bb:123:LYS:CB	57:Bb:124:GLY:CA	2.75	0.65
59:Bd:27:PHE:O	59:Bd:29:VAL:N	2.29	0.65
1:C1:26:A:H2	1:C1:600:U:H3	1.42	0.65
1:C1:100:A:C2	1:C1:101:U:C2	2.84	0.65
1:C1:330:G:C8	1:C1:330:G:OP2	2.50	0.65
1:C1:479:C:H5'	6:CE:124:HIS:CB	2.26	0.65
1:C1:695:U:H4'	1:C1:696:C:OP2	1.95	0.65
1:C1:718:U:H1'	1:C1:719:U:OP1	1.96	0.65
1:C1:763:G:H2'	1:C1:764:U:H6	1.57	0.65
1:C1:1297:G:H2'	1:C1:1299:G:N7	2.12	0.65
1:C1:1429:G:C4	1:C1:1430:U:C5	2.84	0.65
12:CK:46:LEU:C	12:CK:48:ASN:H	2.03	0.65
20:CS:42:CYS:C	20:CS:44:ARG:H	2.05	0.65
23:Cb:132:UNK:HA	23:Cb:133:UNK:CB	2.25	0.65
29:D1:121:A:OP2	29:D1:121:A:C4	2.49	0.65
29:D1:374:A:C2	29:D1:375:A:C5	2.85	0.65
29:D1:550:A:H2'	29:D1:551:A:H8	1.62	0.65
29:D1:564:G:C3'	29:D1:565:U:C6	2.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:715:A:H3'	54:DY:115:LYS:CA	2.26	0.65
29:D1:1277:C:OP2	29:D1:1277:C:H6	1.80	0.65
29:D1:1478:C:C5'	29:D1:1478:C:C6	2.80	0.65
29:D1:1541:G:H4'	29:D1:1542:G:OP2	1.97	0.65
29:D1:1625:A:N7	29:D1:1626:U:C6	2.65	0.65
29:D1:1662:G:H2'	29:D1:1663:C:H6	1.62	0.65
29:D1:1750:A:H5'	29:D1:1751:G:C8	2.32	0.65
29:D1:2186:U:H5"	29:D1:2315:G:OP2	1.96	0.65
29:D1:2255:A:OP1	74:D1:3415:OHX:N1	2.29	0.65
29:D1:2841:G:C6	29:D1:2844:C:C4	2.84	0.65
29:D1:2923:U:C2	29:D1:2924:U:C5	2.84	0.65
29:D1:3087:A:H2'	29:D1:3088:G:C8	2.31	0.65
29:D1:3165:A:C2	29:D1:3286:G:C4	2.85	0.65
29:D1:3174:A:OP2	29:D1:3174:A:C4'	2.45	0.65
29:D1:3217:C:H2'	29:D1:3217:C:O2	1.95	0.65
29:D1:3280:U:OP2	29:D1:3280:U:C6	2.50	0.65
30:D2:25:G:C4	30:D2:26:C:C4	2.85	0.65
30:D2:46:A:OP2	30:D2:46:A:C6	2.49	0.65
30:D2:112:G:OP2	30:D2:113:C:OP1	2.15	0.65
33:DB:171:GLY:CA	62:Dg:68:ALA:HB2	2.27	0.65
1:A1:11:A:H1'	1:A1:1300:A:O2'	1.96	0.65
1:A1:224:C:N4	1:A1:837:G:H1	1.95	0.65
1:A1:259:U:C4	1:A1:261:U:O4	2.50	0.65
1:A1:391:A:H4'	1:A1:1730:A:H4'	1.79	0.65
1:A1:979:A:N3	1:A1:1775:U:O2'	2.28	0.65
1:A1:1149:G:C4'	1:A1:1150:G:OP1	2.44	0.65
1:A1:1171:A:H2'	1:A1:1172:G:C8	2.32	0.65
1:A1:1645:G:O2'	1:A1:1646:C:O5'	2.10	0.65
3:AB:106:ASP:O	3:AB:108:ASN:N	2.27	0.65
14:AM:57:ARG:O	14:AM:58:ALA:HB2	1.95	0.65
19:AR:25:VAL:O	19:AR:38:ARG:HA	1.97	0.65
29:B1:39:A:H5"	29:B1:40:A:H4'	1.77	0.65
29:B1:377:A:H1'	29:B1:392:G:N2	2.12	0.65
29:B1:600:G:N2	29:B1:604:G:C6	2.65	0.65
29:B1:682:U:C4	29:B1:699:A:H2	2.15	0.65
29:B1:1130:A:H2'	29:B1:1132:C:C5	2.32	0.65
29:B1:1296:C:H2'	29:B1:1297:C:O5'	1.96	0.65
29:B1:1303:A:N7	29:B1:1304:A:C6	2.65	0.65
29:B1:1351:U:O3'	29:B1:1352:A:C8	2.50	0.65
29:B1:1479:U:OP2	29:B1:1480:G:C2	2.50	0.65
29:B1:1655:G:N2	29:B1:1801:U:N3	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1878:G:C8	29:B1:1878:G:H3'	2.31	0.65
29:B1:2194:G:C2'	29:B1:2195:C:H5'	2.27	0.65
29:B1:2674:A:H8	42:BK:108:GLU:N	1.94	0.65
29:B1:2785:A:C5	29:B1:2786:G:C8	2.84	0.65
29:B1:2934:A:H5"	29:B1:2935:U:OP2	1.97	0.65
29:B1:3133:C:H2'	29:B1:3134:A:O4'	1.96	0.65
29:B1:3150:A:H5"	34:BC:134:SER:CA	2.24	0.65
29:B1:3256:G:C6	29:B1:3257:C:C4	2.84	0.65
30:B2:1:G:H2'	30:B2:2:G:C8	2.32	0.65
31:B3:121:U:H3	31:B3:132:G:H1	1.45	0.65
32:BA:53:LEU:CB	32:BA:54:LYS:HA	2.26	0.65
34:BC:106:TRP:C	34:BC:108:GLU:H	2.03	0.65
34:BC:332:ARG:O	34:BC:333:LYS:CB	2.45	0.65
35:BD:39:PHE:O	35:BD:42:VAL:N	2.30	0.65
37:BF:21:THR:HA	37:BF:111:LEU:O	1.97	0.65
54:BY:15:VAL:O	54:BY:17:ALA:HA	1.96	0.65
54:BY:85:ASP:H	54:BY:87:ARG:CB	2.10	0.65
56:Ba:16:LEU:O	56:Ba:19:ARG:N	2.30	0.65
59:Bd:37:CYS:C	74:Bd:101:OHX:N6	2.55	0.65
1:C1:587:C:H2'	1:C1:588:U:C6	2.32	0.65
1:C1:605:A:N6	1:C1:606:A:N6	2.44	0.65
1:C1:1003:A:N7	1:C1:1005:A:C6	2.65	0.65
1:C1:1042:G:H2'	1:C1:1043:A:O4'	1.96	0.65
1:C1:1347:U:H2'	1:C1:1349:G:C5	2.32	0.65
1:C1:1515:A:H2'	1:C1:1516:A:H5"	1.77	0.65
10:CI:25:LEU:O	10:CI:28:MET:N	2.29	0.65
29:D1:585:A:H3'	29:D1:586:C:C6	2.32	0.65
29:D1:877:C:H6	29:D1:877:C:H3'	1.61	0.65
29:D1:995:U:O2'	29:D1:996:A:P	2.55	0.65
29:D1:1035:G:C4	29:D1:1036:A:C8	2.85	0.65
29:D1:1142:G:H3'	29:D1:1143:A:H5'	1.78	0.65
29:D1:1401:A:H2'	29:D1:1402:C:C6	2.31	0.65
29:D1:2111:G:H22	51:DV:49:ILE:HA	1.62	0.65
29:D1:2218:G:O2'	29:D1:2219:A:H5'	1.97	0.65
29:D1:2602:G:H2'	29:D1:2603:G:H8	1.62	0.65
29:D1:2800:G:H5"	29:D1:2801:A:OP1	1.97	0.65
29:D1:2836:C:O2	29:D1:2836:C:H3'	1.97	0.65
29:D1:2909:U:C5	29:D1:2910:A:N7	2.65	0.65
29:D1:3191:G:N1	29:D1:3202:G:C2	2.65	0.65
29:D1:3316:A:N6	29:D1:3387:U:H3	1.94	0.65
29:D1:3325:G:C2	29:D1:3326:G:C4	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3386:G:H2'	29:D1:3387:U:H6	1.62	0.65
35:DD:134:LEU:O	35:DD:137:ALA:N	2.30	0.65
37:DF:164:SER:HA	38:DG:182:ASP:CB	2.26	0.65
73:DM:25:LEU:N	73:DM:191:TYR:HA	2.10	0.65
56:Da:20:LEU:HA	56:Da:22:GLY:O	1.95	0.65
1:A1:46:A:N6	1:A1:433:C:H4'	2.12	0.65
1:A1:115:G:H21	1:A1:334:G:N2	1.94	0.65
1:A1:292:U:H6	1:A1:292:U:O5'	1.79	0.65
1:A1:354:C:H2'	1:A1:355:G:O4'	1.97	0.65
1:A1:792:U:H2'	1:A1:792:U:O2	1.97	0.65
1:A1:832:U:H3'	1:A1:833:U:C5'	2.26	0.65
1:A1:1297:G:N1	1:A1:1300:A:OP2	2.30	0.65
1:A1:1474:G:C2	1:A1:1475:A:C5	2.85	0.65
1:A1:1684:U:C5	1:A1:1721:A:H2	2.15	0.65
4:AC:64:ARG:O	4:AC:68:GLU:CB	2.45	0.65
4:AC:133:GLY:HA3	4:AC:154:ASP:O	1.98	0.65
14:AM:67:MET:O	14:AM:69:LYS:N	2.30	0.65
29:B1:11:A:C2	31:B3:148:G:C6	2.85	0.65
29:B1:69:C:N4	29:B1:70:A:C8	2.64	0.65
29:B1:137:G:C8	29:B1:137:G:H3'	2.32	0.65
29:B1:284:A:H2	29:B1:306:A:N9	1.94	0.65
29:B1:285:A:N1	29:B1:305:U:O5'	2.30	0.65
29:B1:515:C:H2'	29:B1:516:A:C4'	2.26	0.65
29:B1:1220:U:O4'	29:B1:1223:A:H1'	1.97	0.65
29:B1:1362:G:H2'	29:B1:1363:A:C8	2.31	0.65
29:B1:1376:C:H1'	29:B1:1407:A:H2'	1.79	0.65
29:B1:1505:C:H5"	29:B1:1505:C:C6	2.32	0.65
29:B1:1595:U:H4'	29:B1:1595:U:OP1	1.96	0.65
29:B1:2406:C:H1'	29:B1:2819:A:C6	2.31	0.65
29:B1:2413:A:C2	29:B1:2414:G:N7	2.65	0.65
29:B1:3079:U:O2	29:B1:3079:U:C2'	2.44	0.65
29:B1:3204:C:C2'	29:B1:3205:G:OP1	2.45	0.65
29:B1:3225:C:N4	29:B1:3261:C:H42	1.94	0.65
29:B1:3273:A:H2'	29:B1:3274:A:C4'	2.27	0.65
29:B1:3297:U:N3	29:B1:3298:C:C5	2.65	0.65
31:B3:92:A:C2'	31:B3:93:U:H5'	2.25	0.65
31:B3:114:G:C2'	31:B3:115:C:H5'	2.27	0.65
41:BJ:191:LYS:HA	41:BJ:192:ASP:CB	2.27	0.65
49:BT:70:SER:O	49:BT:72:VAL:N	2.26	0.65
68:Bn:30:UNK:O	68:Bn:33:UNK:N	2.30	0.65
1:C1:55:A:O2'	1:C1:56:U:P	2.54	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:635:A:H2'	1:C1:636:A:C8	2.31	0.65
1:C1:1251:U:H2'	1:C1:1252:C:O4'	1.96	0.65
1:C1:1454:G:N2	1:C1:1455:G:H1'	2.10	0.65
1:C1:1588:G:C6	1:C1:1589:C:C4	2.85	0.65
1:C1:1694:A:H4'	1:C1:1695:G:OP1	1.97	0.65
29:D1:19:U:H2'	29:D1:20:A:C8	2.32	0.65
29:D1:264:G:C5	29:D1:265:A:C6	2.85	0.65
29:D1:271:C:O2'	29:D1:272:G:O4'	2.15	0.65
29:D1:379:C:H5"	29:D1:379:C:C6	2.27	0.65
29:D1:563:U:H3'	29:D1:564:G:C4'	2.27	0.65
29:D1:569:A:C5	29:D1:570:A:C8	2.85	0.65
29:D1:595:G:C2	29:D1:610:G:OP1	2.49	0.65
29:D1:1107:C:C2	29:D1:1108:U:C5	2.85	0.65
29:D1:1226:G:OP1	29:D1:1226:G:O4'	2.14	0.65
29:D1:1445:U:C5	29:D1:1446:A:N7	2.64	0.65
29:D1:1602:A:C5	29:D1:1603:A:C6	2.84	0.65
29:D1:1900:A:C2	29:D1:1906:G:C8	2.85	0.65
29:D1:2352:A:H2'	29:D1:2353:G:C8	2.32	0.65
29:D1:2768:U:H2'	29:D1:2769:A:H8	1.59	0.65
29:D1:3005:A:N3	29:D1:3140:G:N2	2.44	0.65
29:D1:3091:A:O2'	29:D1:3092:C:OP2	2.15	0.65
29:D1:3311:C:H2'	29:D1:3312:U:O4'	1.98	0.65
29:D1:3376:A:C5'	29:D1:3377:G:H5"	2.27	0.65
31:D3:28:C:H5'	31:D3:29:U:OP2	1.96	0.65
34:DC:261:MET:C	34:DC:263:SER:H	2.03	0.65
37:DF:99:GLU:O	37:DF:100:LYS:C	2.40	0.65
44:DO:85:THR:CB	44:DO:88:GLY:H	2.11	0.65
44:DO:141:ALA:HA	44:DO:144:ARG:CB	2.27	0.65
1:A1:80:A:H3'	1:A1:81:G:H8	1.63	0.64
1:A1:127:G:O6	1:A1:179:A:C2	2.50	0.64
1:A1:257:A:C2'	1:A1:258:C:H5'	2.21	0.64
1:A1:295:A:C2	1:A1:296:U:C2	2.84	0.64
1:A1:906:A:H2'	1:A1:907:A:O4'	1.96	0.64
1:A1:931:C:H3'	1:A1:932:U:H2'	1.79	0.64
1:A1:1241:G:O3'	1:A1:1242:A:H8	1.79	0.64
1:A1:1365:C:H2'	1:A1:1366:U:C4'	2.27	0.64
1:A1:1595:U:H2'	1:A1:1596:C:O2	1.97	0.64
3:AB:126:ARG:O	3:AB:128:GLY:N	2.30	0.64
13:AL:27:LYS:HA	13:AL:57:ARG:HA	1.78	0.64
29:B1:22:G:C5	29:B1:23:A:C8	2.85	0.64
29:B1:36:C:H4'	29:B1:808:A:C2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:130:A:C2	29:B1:131:C:N4	2.63	0.64
29:B1:299:G:H8	29:B1:299:G:O5'	1.78	0.64
29:B1:352:A:C4	29:B1:354:U:C5	2.85	0.64
29:B1:421:G:H21	29:B1:2365:C:C1'	2.05	0.64
29:B1:563:U:C2	29:B1:564:G:O4'	2.50	0.64
29:B1:585:A:H3'	29:B1:586:C:C6	2.31	0.64
29:B1:648:C:H5	29:B1:2374:C:O3'	1.80	0.64
29:B1:937:G:N2	29:B1:960:U:C5'	2.58	0.64
29:B1:1313:G:C2	29:B1:1314:C:C6	2.85	0.64
29:B1:1350:A:H3'	29:B1:1351:U:C6	2.31	0.64
29:B1:1351:U:O2	29:B1:1351:U:C2'	2.43	0.64
29:B1:1504:A:C3'	29:B1:1505:C:H5"	2.28	0.64
29:B1:1540:U:O2	29:B1:1540:U:C2'	2.44	0.64
29:B1:1680:G:C2	29:B1:1681:U:C6	2.84	0.64
29:B1:2315:G:N2	29:B1:2316:G:C8	2.65	0.64
29:B1:2545:C:H2'	29:B1:2546:C:O4'	1.97	0.64
29:B1:2614:G:C4	29:B1:2797:C:C5	2.85	0.64
29:B1:3105:U:C5	29:B1:3106:A:C5	2.85	0.64
29:B1:3153:U:C4	29:B1:3160:U:H1'	2.32	0.64
29:B1:3299:A:C2	29:B1:3300:U:C5	2.85	0.64
29:B1:3309:G:H3'	29:B1:3310:A:H8	1.61	0.64
31:B3:106:C:C4	31:B3:138:A:N6	2.65	0.64
34:BC:39:LYS:O	34:BC:41:VAL:N	2.30	0.64
35:BD:237:GLN:C	35:BD:239:ALA:H	2.02	0.64
40:BI:21:LYS:O	40:BI:22:SER:C	2.40	0.64
43:BN:48:GLY:O	43:BN:49:PRO:C	2.40	0.64
53:BX:19:TYR:C	53:BX:21:THR:H	2.04	0.64
1:C1:274:G:H2'	1:C1:275:C:H6	1.62	0.64
1:C1:364:G:H5'	1:C1:365:G:OP2	1.98	0.64
1:C1:728:U:O2	1:C1:728:U:H2'	1.97	0.64
1:C1:871:G:C4	1:C1:872:G:C8	2.85	0.64
1:C1:871:G:C6	1:C1:957:G:C6	2.85	0.64
4:CC:14:ASP:O	4:CC:16:VAL:O	2.15	0.64
5:CD:128:ASN:O	5:CD:130:ILE:N	2.30	0.64
29:D1:10:C:H5	31:D3:149:A:H2	1.44	0.64
29:D1:67:A:N3	29:D1:317:A:C8	2.65	0.64
29:D1:113:C:H2'	29:D1:114:A:H5'	1.78	0.64
29:D1:344:A:C5	29:D1:345:G:C8	2.85	0.64
29:D1:385:A:N3	29:D1:386:A:C8	2.65	0.64
29:D1:866:A:H8	29:D1:867:G:C8	2.14	0.64
29:D1:965:A:C6	29:D1:966:U:C2	2.84	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1097:G:H1'	29:D1:1098:A:O2'	1.97	0.64
29:D1:1128:U:O2	29:D1:1128:U:C2'	2.44	0.64
29:D1:1232:C:C4	29:D1:1261:G:C2	2.85	0.64
29:D1:1257:C:H3'	29:D1:1258:U:C6	2.32	0.64
29:D1:1260:A:H1'	29:D1:1280:C:H1'	1.78	0.64
29:D1:1916:U:H2'	29:D1:1917:C:C6	2.32	0.64
29:D1:2105:G:H5'	29:D1:2105:G:H8	1.59	0.64
29:D1:2172:A:H1'	33:DB:10:LYS:O	1.97	0.64
29:D1:2254:U:O3'	74:D1:3415:OHX:N2	2.30	0.64
29:D1:2260:U:H2'	29:D1:2261:G:N7	2.13	0.64
29:D1:2650:U:OP2	29:D1:2650:U:C6	2.48	0.64
29:D1:2687:G:N3	29:D1:2687:G:C3'	2.54	0.64
29:D1:2869:U:H2'	29:D1:2869:U:O2	1.98	0.64
29:D1:2877:G:N7	74:D1:3530:OHX:N1	2.44	0.64
29:D1:3047:U:N3	29:D1:3048:A:C2	2.65	0.64
29:D1:3297:U:N3	29:D1:3298:C:C5	2.65	0.64
29:D1:3328:G:H22	29:D1:3375:A:N6	1.95	0.64
31:D3:102:U:H2'	31:D3:103:G:C8	2.32	0.64
45:DP:119:VAL:O	45:DP:120:VAL:O	2.15	0.64
46:DQ:9:THR:HA	46:DQ:14:SER:N	2.10	0.64
52:DW:76:VAL:O	52:DW:132:ALA:HB1	1.97	0.64
1:A1:169:A:C4	1:A1:171:A:N7	2.65	0.64
1:A1:207:U:C2	1:A1:208:U:C5	2.85	0.64
1:A1:209:U:C2	1:A1:210:A:C8	2.86	0.64
1:A1:528:U:C4'	1:A1:529:A:O4'	2.45	0.64
1:A1:595:G:H2'	1:A1:596:C:C6	2.33	0.64
1:A1:686:C:C2'	1:A1:687:G:C8	2.71	0.64
1:A1:930:A:H5"	1:A1:931:C:OP2	1.96	0.64
1:A1:1196:A:N3	1:A1:1196:A:H5"	2.12	0.64
1:A1:1618:C:H5'	1:A1:1619:C:OP2	1.98	0.64
6:AE:71:PHE:O	6:AE:75:ALA:CB	2.46	0.64
11:AJ:127:LYS:HA	11:AJ:134:ALA:H	1.62	0.64
15:AN:45:ALA:C	15:AN:47:GLN:N	2.53	0.64
29:B1:200:C:H5'	29:B1:221:A:N3	2.12	0.64
29:B1:269:G:C6	29:B1:294:U:H5	2.14	0.64
29:B1:271:C:C5	29:B1:295:A:N7	2.65	0.64
29:B1:313:A:H2'	29:B1:314:U:C6	2.31	0.64
29:B1:331:G:C6	31:B3:33:A:N1	2.66	0.64
29:B1:680:G:H5"	29:B1:681:U:OP2	1.96	0.64
29:B1:716:A:H3'	29:B1:716:A:H8	1.62	0.64
29:B1:724:U:H2'	29:B1:725:G:C8	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1129:A:N6	29:B1:1130:A:H61	1.94	0.64
29:B1:1553:U:H1'	29:B1:1582:C:H5	1.63	0.64
29:B1:1666:G:H2'	29:B1:1667:A:C8	2.32	0.64
29:B1:1795:U:C4	62:Bg:51:ALA:HB2	2.32	0.64
29:B1:1864:A:H3'	29:B1:1865:A:H8	1.62	0.64
29:B1:1933:A:H2'	29:B1:1934:G:H5'	1.79	0.64
29:B1:2119:A:C5	29:B1:2120:A:C2	2.86	0.64
29:B1:2369:G:C6	29:B1:2370:G:C6	2.85	0.64
29:B1:2554:A:H4'	29:B1:2555:G:O5'	1.96	0.64
29:B1:2894:C:H2'	29:B1:2895:G:H8	1.61	0.64
29:B1:3058:U:O2'	29:B1:3059:G:OP1	2.16	0.64
29:B1:3211:C:C2'	29:B1:3211:C:O2	2.43	0.64
29:B1:3329:U:O3'	34:BC:366:GLY:HA3	1.98	0.64
30:B2:42:A:H2	30:B2:47:C:C5	2.15	0.64
31:B3:19:C:C6	31:B3:20:U:C5	2.84	0.64
31:B3:72:A:H61	31:B3:85:G:C5'	2.10	0.64
31:B3:72:A:H62	31:B3:85:G:H21	1.45	0.64
31:B3:144:G:O2'	31:B3:145:U:H5'	1.98	0.64
34:BC:4:ARG:HA	34:BC:6:TYR:O	1.98	0.64
34:BC:51:ALA:CB	34:BC:78:VAL:O	2.42	0.64
53:BX:75:ARG:C	53:BX:77:LYS:H	2.06	0.64
1:C1:80:A:H3'	1:C1:81:G:H8	1.62	0.64
1:C1:168:A:H2'	1:C1:169:A:C8	2.31	0.64
1:C1:177:U:OP2	1:C1:177:U:H6	1.79	0.64
1:C1:250:C:N3	1:C1:251:A:N7	2.45	0.64
1:C1:296:U:H2'	1:C1:297:U:N1	2.12	0.64
1:C1:396:G:C2'	1:C1:397:A:O5'	2.44	0.64
1:C1:619:A:O5'	1:C1:620:A:OP2	2.14	0.64
1:C1:1177:C:H2'	1:C1:1178:G:O4'	1.96	0.64
1:C1:1216:C:H4'	1:C1:1217:A:H5'	1.77	0.64
1:C1:1244:A:C2	1:C1:1245:G:C8	2.85	0.64
1:C1:1515:A:H2'	1:C1:1516:A:C5'	2.27	0.64
1:C1:1538:U:H6	1:C1:1538:U:H3'	1.62	0.64
5:CD:63:GLN:O	5:CD:92:ARG:HA	1.97	0.64
16:CO:37:PHE:O	16:CO:39:GLN:N	2.30	0.64
29:D1:173:G:H2'	29:D1:174:C:C6	2.33	0.64
29:D1:221:A:C4	29:D1:224:C:N4	2.65	0.64
29:D1:312:C:H2'	29:D1:313:A:C8	2.31	0.64
29:D1:507:U:H4'	29:D1:1167:U:OP1	1.97	0.64
29:D1:515:C:C4	29:D1:516:A:N7	2.65	0.64
29:D1:523:A:H2'	29:D1:524:U:C5'	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:573:C:C2'	29:D1:574:U:H5'	2.27	0.64
29:D1:702:C:C2	29:D1:703:G:C8	2.85	0.64
29:D1:720:A:H4'	29:D1:721:G:OP2	1.96	0.64
29:D1:730:C:H2'	29:D1:731:U:H5'	1.77	0.64
29:D1:1106:G:C6	29:D1:1107:C:C4	2.84	0.64
29:D1:1535:A:C8	29:D1:1536:G:C8	2.86	0.64
29:D1:2743:A:C6	29:D1:2751:G:C6	2.85	0.64
29:D1:2932:U:O2	29:D1:2934:A:OP2	2.13	0.64
29:D1:3086:A:H2'	29:D1:3087:A:O4'	1.97	0.64
29:D1:3126:C:C4	29:D1:3127:A:N7	2.65	0.64
29:D1:3313:U:O2'	29:D1:3314:A:H8	1.76	0.64
31:D3:72:A:H61	31:D3:85:G:C5'	2.11	0.64
31:D3:74:U:H1'	31:D3:89:A:N7	2.12	0.64
31:D3:106:C:N1	31:D3:138:A:N7	2.44	0.64
53:DX:17:LYS:C	53:DX:19:TYR:N	2.50	0.64
58:Dc:62:GLN:O	58:Dc:65:ALA:HB3	1.97	0.64
63:Dh:9:UNK:O	63:Dh:10:UNK:C	2.45	0.64
1:A1:17:C:H2'	1:A1:18:C:C6	2.32	0.64
1:A1:250:C:H2'	1:A1:251:A:C8	2.32	0.64
1:A1:814:A:C5	1:A1:816:G:C2	2.84	0.64
1:A1:883:C:N4	1:A1:945:U:H3	1.94	0.64
1:A1:926:A:C2'	1:A1:927:C:H5'	2.27	0.64
1:A1:1378:U:C5'	1:A1:1379:C:C6	2.77	0.64
1:A1:1584:G:H8	11:AJ:123:ARG:H	1.38	0.64
1:A1:1612:U:H3'	1:A1:1613:U:H5"	1.79	0.64
1:A1:1614:A:H2'	1:A1:1615:C:H5"	1.79	0.64
1:A1:1694:A:H4'	1:A1:1695:G:OP1	1.96	0.64
1:A1:1733:C:C4	1:A1:1734:U:C4	2.84	0.64
9:AH:63:ALA:O	9:AH:65:GLN:N	2.30	0.64
12:AK:58:MET:HA	12:AK:63:LYS:H	1.61	0.64
14:AM:60:SER:O	14:AM:62:ALA:N	2.30	0.64
29:B1:145:G:N3	29:B1:145:G:H2'	2.13	0.64
29:B1:504:A:C6	29:B1:505:G:C6	2.85	0.64
29:B1:748:U:O2	29:B1:748:U:H2'	1.95	0.64
29:B1:1234:G:C5	29:B1:1235:U:H2'	2.31	0.64
29:B1:1328:C:H2'	29:B1:1329:U:C6	2.32	0.64
29:B1:1368:U:O2'	29:B1:1369:A:H5'	1.98	0.64
29:B1:2172:A:H1'	33:BB:10:LYS:O	1.98	0.64
29:B1:2308:C:H2'	29:B1:2309:A:C8	2.31	0.64
29:B1:2363:A:C2	29:B1:2376:G:C5	2.85	0.64
29:B1:2868:U:H2'	29:B1:2869:U:H6	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2895:G:C2’	29:B1:2896:A:H5”	2.27	0.64
30:B2:25:G:C4	30:B2:26:C:C4	2.84	0.64
42:BK:84:LEU:HA	42:BK:89:TYR:CB	2.27	0.64
42:BK:101:ASN:O	42:BK:103:GLY:N	2.30	0.64
43:BN:22:LEU:O	43:BN:23:ILE:CB	2.45	0.64
44:BO:53:TYR:O	44:BO:55:ALA:N	2.30	0.64
48:BS:151:ARG:HA	48:BS:154:ALA:HB3	1.79	0.64
54:BY:73:LEU:HA	54:BY:116:GLY:HA3	1.80	0.64
54:BY:129:PHE:CB	54:BY:130:VAL:CB	2.75	0.64
1:C1:14:C:H5’	3:CB:164:SER:H	1.63	0.64
1:C1:26:A:H2	1:C1:600:U:N3	1.95	0.64
1:C1:207:U:N3	1:C1:208:U:C5	2.65	0.64
1:C1:710:U:O2	1:C1:729:G:C2	2.51	0.64
1:C1:940:A:H2’	1:C1:941:A:H8	1.61	0.64
1:C1:1367:G:H5”	1:C1:1368:G:OP2	1.96	0.64
1:C1:1503:A:H2’	1:C1:1504:G:H5’	1.79	0.64
1:C1:1745:G:O2’	1:C1:1746:A:C8	2.47	0.64
1:C1:1764:C:H2’	1:C1:1767:G:N7	2.12	0.64
4:CC:95:GLY:O	4:CC:96:LEU:CB	2.45	0.64
17:CP:104:LEU:O	17:CP:105:ALA:HB2	1.96	0.64
29:D1:597:G:H2’	29:D1:598:A:O4’	1.97	0.64
29:D1:611:A:C5’	29:D1:612:U:OP1	2.45	0.64
29:D1:968:G:H2’	29:D1:969:C:H6	1.61	0.64
29:D1:1042:U:H2’	29:D1:1043:C:C6	2.32	0.64
29:D1:1199:C:N3	74:D1:3574:OHX:N6	2.45	0.64
29:D1:1341:U:H2’	29:D1:1342:C:C6	2.31	0.64
29:D1:1435:A:C5’	29:D1:1436:U:H5”	2.19	0.64
29:D1:1492:G:H3’	29:D1:1493:G:H21	1.61	0.64
29:D1:1559:A:H2’	29:D1:1560:G:H5’	1.79	0.64
29:D1:1680:G:C4	29:D1:1681:U:C6	2.86	0.64
29:D1:1696:A:C2	29:D1:1697:A:C6	2.85	0.64
29:D1:1715:A:H3’	29:D1:1716:U:C5’	2.24	0.64
29:D1:1793:C:C1’	29:D1:1794:G:OP1	2.44	0.64
29:D1:1939:G:H2’	29:D1:1940:G:H5’	1.78	0.64
29:D1:2280:A:C5	29:D1:2282:U:H5	2.14	0.64
29:D1:2568:C:O2’	29:D1:2569:A:H4’	1.97	0.64
29:D1:2716:U:H3’	29:D1:2717:U:C5’	2.26	0.64
29:D1:2858:U:H2’	29:D1:2859:U:C6	2.33	0.64
29:D1:3045:G:H2’	29:D1:3046:A:O5’	1.95	0.64
29:D1:3181:C:H1’	45:DP:167:TYR:CB	2.27	0.64
29:D1:3219:G:OP1	29:D1:3220:G:C5’	2.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3228:C:H2'	29:D1:3229:G:C8	2.33	0.64
29:D1:3262:U:C2'	29:D1:3263:G:H8	2.11	0.64
33:DB:182:ALA:C	33:DB:185:ALA:H	2.04	0.64
34:DC:50:LYS:CB	34:DC:331:ASN:O	2.45	0.64
63:Dh:49:UNK:O	63:Dh:50:UNK:C	2.45	0.64
1:A1:183:U:C4'	1:A1:184:C:OP1	2.46	0.64
1:A1:544:A:O2'	1:A1:545:A:P	2.55	0.64
1:A1:760:A:H2'	1:A1:761:G:H5'	1.78	0.64
1:A1:986:G:N3	1:A1:987:G:C8	2.65	0.64
1:A1:1147:A:H2'	1:A1:1148:C:C6	2.31	0.64
1:A1:1449:U:H2'	1:A1:1450:U:H6	1.62	0.64
1:A1:1567:U:H2'	1:A1:1568:C:O4'	1.97	0.64
1:A1:1609:U:C5'	1:A1:1609:U:H6	2.11	0.64
1:A1:1777:G:C5	1:A1:1778:G:N7	2.66	0.64
4:AC:61:GLU:C	4:AC:63:GLY:H	2.02	0.64
8:AG:109:LYS:C	8:AG:111:ALA:H	2.05	0.64
21:AT:240:VAL:HA	21:AT:256:THR:HA	1.77	0.64
29:B1:43:A:C6	29:B1:2802:A:H2	2.15	0.64
29:B1:532:A:H2'	29:B1:533:A:C8	2.33	0.64
29:B1:582:G:C2	29:B1:583:G:C8	2.85	0.64
29:B1:1178:G:C2'	29:B1:1179:A:H5'	2.28	0.64
29:B1:1192:C:P	29:B1:1192:C:C3'	2.73	0.64
29:B1:1352:A:H3'	29:B1:1353:U:H4'	1.79	0.64
29:B1:2288:G:C6	29:B1:2289:U:O4	2.50	0.64
29:B1:2300:G:O2'	29:B1:2328:U:H1'	1.97	0.64
29:B1:3006:A:C2	29:B1:3141:A:C2	2.85	0.64
29:B1:3218:A:O2'	29:B1:3218:A:N3	2.30	0.64
29:B1:3323:A:C6	29:B1:3324:C:C4	2.86	0.64
31:B3:55:U:H2'	31:B3:56:G:C8	2.23	0.64
34:BC:103:THR:O	34:BC:104:THR:C	2.41	0.64
41:BJ:161:GLY:CA	41:BJ:162:GLN:CB	2.69	0.64
46:BQ:31:GLU:O	46:BQ:35:ALA:HB2	1.96	0.64
59:Bd:36:SER:CB	74:Bd:101:OHX:N4	2.61	0.64
1:C1:518:A:H8	1:C1:519:C:C5'	2.10	0.64
1:C1:571:G:H2'	1:C1:571:G:N3	2.12	0.64
1:C1:594:A:H4'	1:C1:595:G:OP1	1.96	0.64
1:C1:617:U:O4'	1:C1:1031:U:C2	2.50	0.64
1:C1:989:U:C2'	1:C1:990:C:C6	2.79	0.64
1:C1:1068:C:H2'	1:C1:1069:A:C8	2.32	0.64
1:C1:1265:G:H2'	1:C1:1266:U:O4'	1.97	0.64
1:C1:1283:U:C2	1:C1:1284:C:H5	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1391:A:H5”	1:C1:1392:U:OP2	1.97	0.64
1:C1:1521:G:H5’	1:C1:1523:G:P	2.37	0.64
3:CB:163:GLY:O	3:CB:165:VAL:N	2.31	0.64
5:CD:191:ALA:O	5:CD:195:ALA:N	2.28	0.64
7:CF:110:HIS:CA	7:CF:111:VAL:CB	2.76	0.64
13:CL:27:LYS:HA	13:CL:57:ARG:HA	1.79	0.64
29:D1:19:U:H2’	29:D1:20:A:N7	2.12	0.64
29:D1:258:G:OP2	29:D1:258:G:H2’	1.97	0.64
29:D1:407:A:N1	31:D3:17:A:H1’	2.12	0.64
29:D1:518:G:N2	29:D1:572:A:H61	1.95	0.64
29:D1:540:U:C2	29:D1:541:U:C5	2.85	0.64
29:D1:779:G:H3’	29:D1:779:G:H8	1.61	0.64
29:D1:1174:G:H1’	29:D1:1181:U:N3	2.13	0.64
29:D1:1616:U:H2’	29:D1:1617:G:C8	2.31	0.64
29:D1:2234:G:O6	74:D1:3473:OHX:N6	2.30	0.64
29:D1:2290:C:C2	29:D1:2303:A:C2	2.85	0.64
29:D1:2510:U:N3	29:D1:2511:A:C8	2.66	0.64
29:D1:3028:G:C2	29:D1:3029:A:C2	2.86	0.64
29:D1:3069:G:C2	29:D1:3070:A:C8	2.86	0.64
30:D2:1:G:H2’	30:D2:2:G:C8	2.33	0.64
30:D2:12:U:C2’	30:D2:13:A:N1	2.60	0.64
31:D3:29:U:C2	31:D3:30:C:H5	2.16	0.64
31:D3:72:A:C4	31:D3:88:A:N1	2.66	0.64
31:D3:123:G:H5”	74:D3:205:OHX:N5	2.13	0.64
31:D3:157:U:H2’	31:D3:158:U:H5”	1.79	0.64
36:DE:111:GLN:H	36:DE:115:LEU:N	1.96	0.64
40:DI:72:LYS:O	40:DI:73:SER:C	2.38	0.64
44:DO:54:LYS:O	44:DO:56:LYS:N	2.30	0.64
45:DP:56:ASP:O	45:DP:58:LEU:O	2.16	0.64
49:DT:68:THR:O	49:DT:70:SER:N	2.30	0.64
49:DT:84:TYR:O	49:DT:85:LEU:C	2.38	0.64
54:DY:127:ALA:C	54:DY:129:PHE:H	2.05	0.64
1:A1:331:A:N3	1:A1:331:A:H2’	2.12	0.64
1:A1:469:C:OP1	1:A1:469:C:N3	2.29	0.64
1:A1:650:U:C4	1:A1:684:A:N6	2.65	0.64
1:A1:1657:U:N3	74:A1:1949:OHX:N2	2.43	0.64
29:B1:9:U:H3’	29:B1:9:U:O2	1.96	0.64
29:B1:211:A:H5’	29:B1:229:G:O2’	1.97	0.64
29:B1:416:A:C2	29:B1:417:A:C5	2.86	0.64
29:B1:545:U:H2’	29:B1:546:C:C5	2.33	0.64
29:B1:597:G:C2	29:B1:607:A:C2	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:760:G:O2'	29:B1:761:A:O4'	2.14	0.64
29:B1:836:A:C5	29:B1:837:A:N7	2.66	0.64
29:B1:956:U:H1'	29:B1:2729:U:O4	1.97	0.64
29:B1:1302:A:N3	29:B1:2887:A:C2	2.65	0.64
29:B1:1454:A:C5'	29:B1:1878:G:N1	2.60	0.64
29:B1:1524:A:C1'	29:B1:1525:G:OP1	2.45	0.64
29:B1:1529:A:P	29:B1:1592:G:H22	2.20	0.64
29:B1:1731:A:C6	29:B1:1732:U:C2	2.85	0.64
29:B1:2571:U:H3'	29:B1:2572:C:C6	2.33	0.64
29:B1:2631:U:H2'	29:B1:2632:G:H8	1.63	0.64
29:B1:3176:G:O2'	29:B1:3177:G:H5"	1.98	0.64
29:B1:3191:G:C6	29:B1:3192:U:C2	2.85	0.64
31:B3:74:U:H1'	31:B3:89:A:N7	2.13	0.64
36:BE:77:ALA:O	36:BE:78:ALA:HB2	1.97	0.64
37:BF:159:LEU:C	37:BF:161:ALA:N	2.53	0.64
40:BI:161:LEU:O	40:BI:164:ILE:N	2.31	0.64
71:Br:-1:UNK:O	71:Br:1:UNK:N	2.31	0.64
1:C1:198:A:O2'	1:C1:199:G:O4'	2.15	0.64
1:C1:321:C:H2'	1:C1:322:G:H5'	1.80	0.64
1:C1:481:A:H2'	1:C1:482:U:C6	2.33	0.64
1:C1:545:A:C5	1:C1:594:A:N7	2.66	0.64
1:C1:963:A:O2'	1:C1:964:U:P	2.55	0.64
1:C1:1107:G:O2'	1:C1:1108:G:P	2.54	0.64
1:C1:1113:A:O3'	1:C1:1114:G:H4'	1.97	0.64
1:C1:1250:U:N3	1:C1:1251:U:N3	2.45	0.64
1:C1:1281:G:C4	1:C1:1282:U:C5	2.84	0.64
1:C1:1472:C:H5'	1:C1:1474:G:H1'	1.79	0.64
1:C1:1558:U:H3'	1:C1:1559:A:C5'	2.27	0.64
1:C1:1728:A:C5	1:C1:1729:C:C5	2.86	0.64
10:CI:17:TYR:CB	10:CI:18:ARG:CB	2.75	0.64
24:Cc:53:UNK:HA	24:Cc:63:UNK:C	2.28	0.64
29:D1:11:A:O4'	29:D1:1557:A:N6	2.31	0.64
29:D1:37:U:H2'	29:D1:37:U:O2	1.97	0.64
29:D1:126:U:C2	29:D1:127:G:C8	2.86	0.64
29:D1:199:A:N3	29:D1:201:A:C8	2.66	0.64
29:D1:344:A:C2	29:D1:345:G:C1'	2.80	0.64
29:D1:384:A:C5	29:D1:1465:A:C2	2.85	0.64
29:D1:593:C:N3	29:D1:594:U:O2'	2.30	0.64
29:D1:995:U:N3	29:D1:2637:A:C8	2.66	0.64
29:D1:1286:A:C4'	29:D1:1287:A:H5'	2.27	0.64
29:D1:1357:G:C4	29:D1:1358:C:C5	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1443:G:O2'	29:D1:1444:G:H5'	1.97	0.64
29:D1:1446:A:OP1	29:D1:2984:C:H5"	1.97	0.64
29:D1:1653:G:C2'	29:D1:1654:A:H5'	2.27	0.64
29:D1:1655:G:N2	29:D1:1801:U:C4	2.66	0.64
29:D1:2131:A:H61	62:Dg:18:TYR:HA	1.60	0.64
29:D1:2149:A:H3'	29:D1:2149:A:C8	2.33	0.64
29:D1:2269:U:N3	29:D1:2272:G:N1	2.40	0.64
29:D1:2371:G:H5"	29:D1:2372:A:OP2	1.97	0.64
29:D1:3012:A:N1	29:D1:3043:C:C2	2.65	0.64
29:D1:3094:A:H2'	29:D1:3095:U:C6	2.32	0.64
29:D1:3271:G:C4	29:D1:3271:G:H3'	2.32	0.64
29:D1:3356:G:H2'	29:D1:3357:U:O5'	1.97	0.64
29:D1:3392:U:C4	29:D1:3393:U:C4	2.82	0.64
30:D2:10:C:HO2'	30:D2:13:A:H8	1.43	0.64
30:D2:91:G:C6	30:D2:92:A:C5	2.85	0.64
31:D3:13:A:C2	31:D3:14:C:C2	2.85	0.64
31:D3:72:A:H62	31:D3:85:G:N2	1.95	0.64
31:D3:114:G:O2'	31:D3:115:C:H5'	1.97	0.64
37:DF:97:ASN:O	37:DF:98:VAL:C	2.40	0.64
40:DI:7:GLU:HA	40:DI:56:ALA:HA	1.79	0.64
57:Db:83:GLU:C	57:Db:85:LEU:N	2.56	0.64
63:Dh:15:UNK:O	63:Dh:17:UNK:N	2.30	0.64
1:A1:29:U:O2'	1:A1:30:G:H5'	1.97	0.64
1:A1:210:A:H2'	1:A1:211:U:C6	2.33	0.64
1:A1:249:U:H3'	1:A1:250:C:C5'	2.25	0.64
1:A1:929:A:H5"	1:A1:930:A:OP2	1.97	0.64
1:A1:977:A:C6	1:A1:1025:A:N3	2.66	0.64
1:A1:985:G:C6	1:A1:986:G:C6	2.85	0.64
1:A1:985:G:C4	1:A1:986:G:N7	2.65	0.64
1:A1:1042:G:H2'	1:A1:1043:A:C8	2.33	0.64
1:A1:1243:G:H2'	1:A1:1244:A:N7	2.13	0.64
1:A1:1267:G:H21	1:A1:1448:G:C5'	2.10	0.64
5:AD:99:MET:C	5:AD:101:GLY:H	2.06	0.64
10:AI:25:LEU:O	10:AI:28:MET:N	2.28	0.64
29:B1:271:C:O2'	29:B1:272:G:O4'	2.16	0.64
29:B1:506:U:O2'	29:B1:1166:G:H4'	1.97	0.64
29:B1:515:C:C4	29:B1:516:A:N7	2.65	0.64
29:B1:594:U:O4	29:B1:595:G:N1	2.30	0.64
29:B1:609:G:C8	29:B1:610:G:N1	2.65	0.64
29:B1:636:C:H5	29:B1:2378:C:C1'	2.10	0.64
29:B1:648:C:O2	29:B1:2397:A:O4'	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:715:A:H8	29:B1:715:A:O5'	1.81	0.64
29:B1:770:G:H3'	29:B1:771:A:H5"	1.79	0.64
29:B1:1212:A:H2'	29:B1:1213:G:C5'	2.10	0.64
29:B1:1453:A:C1'	29:B1:1850:A:H2	2.09	0.64
29:B1:1470:U:C2	29:B1:1471:U:C5	2.85	0.64
29:B1:1745:C:H2'	29:B1:1746:U:C6	2.33	0.64
29:B1:2113:A:C2'	29:B1:2114:C:C5'	2.76	0.64
29:B1:2137:U:N3	29:B1:2141:U:C5	2.65	0.64
29:B1:2253:G:C5	29:B1:2254:U:C4	2.86	0.64
29:B1:2621:G:H2'	29:B1:2622:C:C6	2.33	0.64
29:B1:2912:G:C6	29:B1:2913:C:C2	2.85	0.64
29:B1:3010:U:O4'	34:BC:15:GLY:HA3	1.98	0.64
29:B1:3058:U:HO2'	29:B1:3059:G:P	2.20	0.64
29:B1:3139:A:H5'	29:B1:3139:A:C8	2.28	0.64
29:B1:3199:G:C2'	29:B1:3200:G:C8	2.80	0.64
29:B1:3209:A:C6	29:B1:3210:A:C6	2.85	0.64
29:B1:3300:U:H2'	29:B1:3300:U:O2	1.96	0.64
30:B2:14:U:O5'	30:B2:14:U:H6	1.81	0.64
30:B2:77:G:O2'	30:B2:78:U:OP2	2.15	0.64
31:B3:157:U:H2'	31:B3:158:U:H5"	1.79	0.64
34:BC:299:ASP:C	34:BC:301:THR:H	2.05	0.64
38:BG:30:ARG:O	38:BG:31:ALA:C	2.39	0.64
38:BG:80:GLN:CA	38:BG:81:HIS:CB	2.76	0.64
43:BN:9:ALA:O	43:BN:10:SER:CB	2.44	0.64
1:C1:34:G:O6	1:C1:474:A:H2	1.80	0.64
1:C1:44:U:H3'	1:C1:45:U:C5'	2.27	0.64
1:C1:127:G:O6	1:C1:179:A:C2	2.50	0.64
1:C1:426:G:H2'	1:C1:427:C:H5"	1.78	0.64
1:C1:515:A:OP1	74:C1:1933:OHX:N4	2.31	0.64
1:C1:861:U:H5	1:C1:862:A:C8	2.13	0.64
1:C1:1142:A:C2	1:C1:1143:A:C4	2.85	0.64
1:C1:1379:C:H2'	1:C1:1379:C:O2	1.96	0.64
1:C1:1431:C:C4'	1:C1:1432:U:H5'	2.28	0.64
1:C1:1579:U:H2'	1:C1:1580:C:H6	1.58	0.64
2:CA:198:MET:O	2:CA:200:ASP:HA	1.98	0.64
25:Cd:94:UNK:C	25:Cd:96:UNK:N	2.58	0.64
29:D1:31:C:O2	29:D1:1546:A:H2	1.81	0.64
29:D1:40:A:C5	29:D1:937:G:C6	2.85	0.64
29:D1:189:G:C2	29:D1:191:U:O4	2.50	0.64
29:D1:258:G:C2	29:D1:259:C:C6	2.86	0.64
29:D1:339:C:H2'	29:D1:340:C:H5"	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:380:U:H2'	29:D1:381:U:C6	2.33	0.64
29:D1:592:A:OP2	29:D1:592:A:C8	2.51	0.64
29:D1:648:C:C5	29:D1:2375:G:O5'	2.50	0.64
29:D1:1394:A:H2'	29:D1:1395:G:O5'	1.98	0.64
29:D1:1523:U:H5'	52:DW:113:LEU:CB	2.28	0.64
29:D1:1529:A:P	29:D1:1592:G:H22	2.21	0.64
29:D1:1599:G:C2	29:D1:1600:U:O2	2.51	0.64
29:D1:1685:C:C5	29:D1:3069:G:N2	2.62	0.64
29:D1:1846:C:O2	29:D1:1846:C:C2'	2.45	0.64
29:D1:2144:A:C4	29:D1:2281:A:C6	2.85	0.64
29:D1:2587:U:H2'	29:D1:2588:U:O4'	1.97	0.64
29:D1:2703:A:H3'	29:D1:2704:A:C5'	2.28	0.64
29:D1:2881:C:O2'	29:D1:2882:U:O4'	2.07	0.64
29:D1:2931:C:C4	29:D1:2932:U:H5	2.15	0.64
29:D1:3011:A:H5"	29:D1:3011:A:N3	2.12	0.64
29:D1:3064:U:C2	29:D1:3065:G:C8	2.86	0.64
34:DC:160:VAL:O	34:DC:161:LEU:C	2.40	0.64
40:DI:86:TYR:CB	40:DI:87:LYS:CA	2.75	0.64
42:DK:65:ILE:O	42:DK:66:ALA:HB2	1.95	0.64
48:DS:70:LYS:C	48:DS:72:GLU:H	2.06	0.64
1:A1:177:U:OP2	1:A1:177:U:C6	2.50	0.64
1:A1:363:G:C2	1:A1:364:G:H1'	2.31	0.64
1:A1:1139:A:C2	1:A1:1140:G:H1'	2.32	0.64
1:A1:1147:A:C2	1:A1:1148:C:C2	2.86	0.64
1:A1:1594:G:O6	1:A1:1595:U:N3	2.31	0.64
1:A1:1778:G:C6	1:A1:1779:U:C4	2.86	0.64
8:AG:137:PRO:O	8:AG:141:TYR:N	2.31	0.64
25:Ad:89:UNK:C	25:Ad:91:UNK:N	2.57	0.64
25:Ad:94:UNK:C	25:Ad:96:UNK:N	2.59	0.64
29:B1:258:G:OP2	29:B1:258:G:H2'	1.98	0.64
29:B1:381:U:C2	29:B1:388:G:N1	2.66	0.64
29:B1:959:C:H41	29:B1:2801:A:H5"	1.63	0.64
29:B1:1209:G:C5	29:B1:1210:U:C4	2.86	0.64
29:B1:1452:A:H5'	29:B1:1453:A:OP1	1.98	0.64
29:B1:1627:U:H3'	29:B1:1628:C:O4'	1.98	0.64
29:B1:1659:U:C4	29:B1:1660:C:N4	2.66	0.64
29:B1:1820:U:OP2	29:B1:1820:U:H2'	1.98	0.64
29:B1:1895:A:C2	29:B1:2341:A:C2	2.85	0.64
29:B1:2148:U:H3'	29:B1:2187:G:N2	2.13	0.64
29:B1:2149:A:H3'	29:B1:2149:A:H8	1.63	0.64
29:B1:2182:A:C2	29:B1:2183:A:C8	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2301:U:H2'	29:B1:2302:G:C8	2.32	0.64
29:B1:2431:C:H2'	29:B1:2432:A:C8	2.32	0.64
29:B1:2883:U:C2	29:B1:2884:C:C5	2.86	0.64
29:B1:3129:A:H5"	29:B1:3130:A:OP2	1.98	0.64
29:B1:3209:A:H2'	29:B1:3210:A:C8	2.33	0.64
29:B1:3314:A:H2'	34:BC:119:TYR:O	1.96	0.64
29:B1:3317:U:H3'	29:B1:3317:U:P	2.38	0.64
29:B1:3363:U:C5	29:B1:3364:C:H1'	2.31	0.64
34:BC:50:LYS:CB	34:BC:331:ASN:O	2.46	0.64
35:BD:130:ALA:O	35:BD:131:VAL:C	2.41	0.64
36:BE:40:HIS:HA	36:BE:41:LYS:O	1.97	0.64
41:BJ:175:ASN:CB	41:BJ:176:LEU:HA	2.27	0.64
45:BP:169:ALA:O	45:BP:172:ARG:N	2.29	0.64
52:BW:94:GLN:O	52:BW:95:ILE:C	2.40	0.64
54:BY:138:ILE:C	54:BY:143:GLY:HA3	2.23	0.64
1:C1:143:G:C4	1:C1:144:U:H1'	2.33	0.64
1:C1:206:A:H2'	1:C1:207:U:H6	1.62	0.64
1:C1:286:C:H2'	1:C1:287:G:C8	2.33	0.64
1:C1:287:G:C6	1:C1:288:A:C6	2.85	0.64
1:C1:302:U:H2'	1:C1:303:U:H5'	1.78	0.64
1:C1:361:C:C2	1:C1:384:G:N2	2.65	0.64
1:C1:824:G:H5"	1:C1:825:U:H5'	1.78	0.64
1:C1:938:G:N2	1:C1:942:G:C5	2.66	0.64
1:C1:967:A:O2'	1:C1:968:U:H5'	1.97	0.64
1:C1:1066:C:C4	1:C1:1067:C:C5	2.86	0.64
1:C1:1633:A:O3'	1:C1:1634:C:C5	2.51	0.64
1:C1:1720:G:H2'	1:C1:1721:A:C5'	2.28	0.64
4:CC:61:GLU:C	4:CC:63:GLY:H	2.04	0.64
5:CD:99:MET:C	5:CD:101:GLY:H	2.05	0.64
13:CL:80:LYS:C	13:CL:82:PRO:N	2.53	0.64
29:D1:557:A:C8	29:D1:557:A:O5'	2.50	0.64
29:D1:559:A:C2'	29:D1:560:G:H8	2.11	0.64
29:D1:575:G:H2'	29:D1:576:C:H6	1.57	0.64
29:D1:618:C:O2'	29:D1:619:A:H5'	1.96	0.64
29:D1:645:A:C5	29:D1:649:A:N7	2.65	0.64
29:D1:1393:A:H2	29:D1:1394:A:N9	1.95	0.64
29:D1:1820:U:OP2	29:D1:1820:U:H2'	1.97	0.64
29:D1:1843:C:N3	29:D1:1844:C:C5	2.66	0.64
29:D1:2179:C:O2	33:DB:129:ALA:O	2.15	0.64
29:D1:2269:U:C4	29:D1:2272:G:N1	2.65	0.64
29:D1:2353:G:C4	29:D1:2354:C:C6	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2612:U:H1'	29:D1:2803:A:C2	2.32	0.64
29:D1:2847:A:C4	29:D1:2848:G:C8	2.86	0.64
29:D1:3148:U:H2'	29:D1:3149:G:C8	2.32	0.64
29:D1:3201:C:N3	29:D1:3202:G:C5	2.65	0.64
30:D2:73:C:N4	30:D2:74:C:H41	1.95	0.64
36:DE:199:ILE:O	36:DE:201:GLY:CA	2.46	0.64
43:DN:124:ARG:O	43:DN:126:GLN:N	2.30	0.64
45:DP:114:LYS:O	45:DP:115:LYS:CB	2.45	0.64
1:A1:105:A:N1	74:A1:1910:OHX:N3	2.45	0.64
1:A1:210:A:H2'	1:A1:211:U:H6	1.63	0.64
1:A1:246:G:O6	1:A1:247:A:C2	2.51	0.64
1:A1:362:G:C6	1:A1:363:G:C5	2.85	0.64
1:A1:469:C:OP1	1:A1:469:C:C2	2.51	0.64
1:A1:1107:G:O2'	1:A1:1108:G:P	2.55	0.64
1:A1:1280:C:H2'	1:A1:1281:G:H8	1.60	0.64
1:A1:1311:U:O2	1:A1:1313:A:C8	2.50	0.64
1:A1:1377:U:O5'	1:A1:1377:U:C6	2.51	0.64
2:AA:57:LEU:O	2:AA:60:ALA:HB3	1.98	0.64
5:AD:215:ASP:O	5:AD:218:GLU:N	2.30	0.64
10:AI:86:VAL:CB	10:AI:87:PRO:HA	2.28	0.64
29:B1:8:C:C2	29:B1:9:U:H5	2.15	0.64
29:B1:211:A:C6	29:B1:229:G:N2	2.65	0.64
29:B1:283:G:OP2	29:B1:285:A:H2'	1.98	0.64
29:B1:593:C:N3	29:B1:594:U:O2'	2.30	0.64
29:B1:608:A:C8	29:B1:608:A:C3'	2.80	0.64
29:B1:676:G:H4'	29:B1:678:G:O3'	1.98	0.64
29:B1:779:G:H3'	29:B1:779:G:C8	2.33	0.64
29:B1:864:G:OP2	74:B1:3415:OHX:N5	2.30	0.64
29:B1:876:A:C2'	29:B1:877:C:H5'	2.27	0.64
29:B1:885:U:H2'	29:B1:885:U:O2	1.97	0.64
29:B1:1036:A:H2'	29:B1:1037:C:C5	2.32	0.64
29:B1:1075:A:C2	69:Bp:246:UNK:HA	2.33	0.64
29:B1:1186:G:C2'	29:B1:1187:C:C5'	2.74	0.64
29:B1:1324:U:H6	29:B1:1324:U:H5'	1.58	0.64
29:B1:1552:G:C5'	29:B1:1553:U:OP2	2.46	0.64
29:B1:1830:G:C5	29:B1:1831:U:C5	2.86	0.64
29:B1:2111:G:N2	51:BV:49:ILE:CA	2.55	0.64
29:B1:2279:A:N1	29:B1:2283:G:N2	2.46	0.64
29:B1:2328:U:C3'	29:B1:2329:C:H5"	2.27	0.64
29:B1:2614:G:C2	29:B1:2797:C:C6	2.86	0.64
29:B1:2797:C:C3'	29:B1:2798:C:H5'	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2901:G:H2'	29:B1:2902:A:O4'	1.97	0.64
29:B1:2947:G:H2'	29:B1:2948:C:C5	2.32	0.64
29:B1:3201:C:N3	29:B1:3202:G:C5	2.66	0.64
29:B1:3217:C:H5'	29:B1:3276:G:H22	1.62	0.64
29:B1:3314:A:C2'	34:BC:119:TYR:N	2.59	0.64
31:B3:13:A:C2	31:B3:14:C:C2	2.86	0.64
34:BC:133:TYR:C	34:BC:135:ALA:N	2.54	0.64
38:BG:160:ARG:O	38:BG:162:PRO:N	2.31	0.64
1:C1:17:C:H2'	1:C1:18:C:C6	2.33	0.64
1:C1:354:C:H2'	1:C1:355:G:O4'	1.98	0.64
1:C1:381:C:C2	1:C1:382:C:C5	2.86	0.64
1:C1:1118:G:H2'	1:C1:1119:G:C8	2.33	0.64
1:C1:1297:G:N1	1:C1:1300:A:OP2	2.30	0.64
1:C1:1338:C:N1	1:C1:1410:A:C2	2.66	0.64
1:C1:1604:U:C3'	1:C1:1605:G:H5"	2.24	0.64
1:C1:1750:A:C5	1:C1:1751:C:C5	2.86	0.64
29:D1:189:G:N3	29:D1:191:U:C4	2.66	0.64
29:D1:199:A:C5	29:D1:219:A:N6	2.65	0.64
29:D1:392:G:C5	29:D1:393:U:H5	2.15	0.64
29:D1:586:C:O2	29:D1:586:C:C2'	2.40	0.64
29:D1:680:G:C6	29:D1:681:U:O4	2.51	0.64
29:D1:1036:A:H2'	29:D1:1037:C:C5	2.32	0.64
29:D1:1288:U:H5"	29:D1:1288:U:H6	1.62	0.64
29:D1:1376:C:H1'	29:D1:1407:A:H2'	1.80	0.64
29:D1:1782:U:OP2	29:D1:1782:U:C6	2.49	0.64
29:D1:2407:C:H2'	29:D1:2408:U:C6	2.32	0.64
29:D1:2702:A:C8	29:D1:2704:A:C6	2.86	0.64
29:D1:2788:C:H2'	29:D1:2789:U:C6	2.33	0.64
29:D1:2970:C:C3'	29:D1:2971:A:H5"	2.26	0.64
29:D1:3180:A:H8	45:DP:114:LYS:CA	2.11	0.64
30:D2:25:G:N1	30:D2:26:C:C4	2.66	0.64
31:D3:8:C:H2'	31:D3:9:A:C8	2.29	0.64
31:D3:19:C:C6	31:D3:20:U:C5	2.83	0.64
33:DB:172:GLY:C	33:DB:174:ARG:N	2.54	0.64
35:DD:85:SER:C	35:DD:87:GLN:H	2.04	0.64
42:DK:134:PRO:O	42:DK:151:SER:O	2.15	0.64
43:DN:49:PRO:O	43:DN:53:VAL:N	2.31	0.64
43:DN:50:LYS:N	43:DN:53:VAL:CB	2.60	0.64
49:DT:28:SER:C	49:DT:30:TYR:N	2.53	0.64
62:Dg:52:ALA:O	62:Dg:54:ILE:N	2.30	0.64
1:A1:114:C:H42	1:A1:250:C:C4'	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:300:A:H2'	1:A1:301:A:O4'	1.97	0.64
1:A1:535:A:O2'	1:A1:536:C:H5'	1.97	0.64
1:A1:572:C:H5"	1:A1:573:C:OP2	1.98	0.64
1:A1:607:G:N7	1:A1:613:G:C4	2.66	0.64
1:A1:789:A:H3'	1:A1:790:U:H6	1.63	0.64
1:A1:880:C:H2'	1:A1:881:A:C8	2.33	0.64
1:A1:1179:G:C6	1:A1:1180:C:C2	2.86	0.64
1:A1:1552:U:O4	1:A1:1553:G:C6	2.51	0.64
1:A1:1602:C:H5'	1:A1:1603:U:OP2	1.98	0.64
3:AB:185:LYS:O	3:AB:186:LYS:C	2.41	0.64
16:AO:37:PHE:C	16:AO:39:GLN:H	2.06	0.64
23:Ab:82:UNK:HA	23:Ab:86:UNK:CB	2.28	0.64
24:Ac:32:UNK:O	24:Ac:36:UNK:N	2.31	0.64
25:Ad:95:UNK:O	25:Ad:98:UNK:CB	2.45	0.64
29:B1:517:G:H2'	29:B1:518:G:N9	2.12	0.64
29:B1:550:A:H2'	29:B1:551:A:H8	1.63	0.64
29:B1:597:G:H2'	29:B1:598:A:H8	1.61	0.64
29:B1:725:G:C2	29:B1:726:G:O4'	2.51	0.64
29:B1:944:C:C5	29:B1:1431:G:C6	2.86	0.64
29:B1:967:A:H5'	29:B1:968:G:OP2	1.98	0.64
29:B1:1065:A:N3	29:B1:1065:A:C3'	2.57	0.64
29:B1:1153:A:N7	29:B1:1154:A:N1	2.45	0.64
29:B1:1189:C:C4'	29:B1:1192:C:H5	2.07	0.64
29:B1:1687:U:OP1	29:B1:1687:U:H6	1.81	0.64
29:B1:1699:A:H2'	29:B1:1700:G:C8	2.33	0.64
29:B1:1714:A:H1'	29:B1:1731:A:N6	2.12	0.64
29:B1:2117:A:OP2	29:B1:2118:C:N4	2.31	0.64
29:B1:2119:A:C8	29:B1:2120:A:C2	2.85	0.64
29:B1:2143:A:H3'	29:B1:2143:A:H8	1.62	0.64
29:B1:2197:C:N4	29:B1:2241:U:H2'	2.13	0.64
29:B1:2285:C:C5	29:B1:2286:U:N3	2.66	0.64
29:B1:2374:C:N4	29:B1:2941:A:O4'	2.30	0.64
29:B1:2720:G:H2'	29:B1:2721:A:H8	1.63	0.64
29:B1:2725:U:C5	29:B1:2727:A:O2'	2.50	0.64
29:B1:2830:G:O2'	29:B1:2831:G:H5'	1.98	0.64
29:B1:2847:A:N7	29:B1:2898:G:C5	2.66	0.64
29:B1:3172:A:O2'	29:B1:3173:G:OP2	2.11	0.64
29:B1:3373:U:C4	29:B1:3374:U:C5	2.86	0.64
30:B2:97:A:H8	30:B2:97:A:OP2	1.80	0.64
31:B3:123:G:C6	31:B3:131:A:N6	2.66	0.64
31:B3:129:C:O5'	31:B3:129:C:H6	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BI:42:ASP:O	40:BI:43:VAL:CB	2.46	0.64
42:BK:118:PRO:HA	42:BK:119:SER:CB	2.27	0.64
46:BQ:32:THR:O	46:BQ:35:ALA:HB3	1.97	0.64
46:BQ:109:ALA:O	46:BQ:111:LYS:N	2.31	0.64
52:BW:132:ALA:O	52:BW:136:ALA:N	2.31	0.64
57:Bb:107:VAL:O	57:Bb:110:ALA:HB3	1.96	0.64
60:Be:7:PHE:HA	60:Be:10:LYS:CB	2.28	0.64
70:Bq:5:UNK:O	70:Bq:9:UNK:N	2.30	0.64
1:C1:58:U:O2'	1:C1:451:A:N3	2.30	0.64
1:C1:142:G:C6	1:C1:266:A:C6	2.86	0.64
1:C1:426:G:C2	1:C1:427:C:C5	2.86	0.64
1:C1:861:U:C5	1:C1:862:A:H8	2.15	0.64
1:C1:992:A:C4	1:C1:1013:A:C2	2.86	0.64
1:C1:1147:A:H2'	1:C1:1148:C:H6	1.61	0.64
1:C1:1308:G:H2'	1:C1:1309:C:H6	1.62	0.64
1:C1:1606:C:H2'	1:C1:1607:G:C8	2.33	0.64
1:C1:1757:G:C6	1:C1:1758:U:C4	2.86	0.64
1:C1:1796:C:OP2	1:C1:1797:A:C8	2.50	0.64
3:CB:126:ARG:O	3:CB:128:GLY:N	2.31	0.64
5:CD:215:ASP:O	5:CD:216:GLU:C	2.41	0.64
9:CH:57:PRO:O	9:CH:60:ALA:N	2.31	0.64
10:CI:80:MET:C	10:CI:82:ASN:H	2.05	0.64
15:CN:45:ALA:C	15:CN:47:GLN:N	2.56	0.64
29:D1:23:A:H3'	29:D1:24:G:C8	2.32	0.64
29:D1:77:A:C2	29:D1:78:U:H1'	2.33	0.64
29:D1:210:U:C6	29:D1:210:U:P	2.91	0.64
29:D1:706:A:C6	29:D1:714:G:N2	2.65	0.64
29:D1:733:G:N1	29:D1:736:A:N1	2.45	0.64
29:D1:742:G:C2'	29:D1:743:C:H5"	2.27	0.64
29:D1:771:A:H3'	29:D1:772:U:C5'	2.28	0.64
29:D1:869:G:H2'	29:D1:870:G:C8	2.33	0.64
29:D1:1120:A:C2	29:D1:1121:U:C4	2.85	0.64
29:D1:1230:G:O2'	73:DM:34:SER:CB	2.46	0.64
29:D1:1487:G:N7	74:D1:3588:OHX:N4	2.46	0.64
29:D1:1624:G:N2	29:D1:1625:A:N3	2.46	0.64
29:D1:2336:U:C5	29:D1:2337:C:C5	2.86	0.64
29:D1:2342:U:H2'	29:D1:2343:C:H6	1.62	0.64
29:D1:2355:G:O2'	29:D1:2356:A:O4'	2.15	0.64
29:D1:2852:C:C5	29:D1:2853:A:C4	2.86	0.64
29:D1:2932:U:O2	29:D1:2932:U:C2'	2.45	0.64
29:D1:3123:A:N7	29:D1:3124:G:C8	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3367:C:H2'	29:D1:3368:U:H5"	1.78	0.64
30:D2:48:U:H2'	30:D2:49:G:C5	2.33	0.64
30:D2:64:A:H1'	30:D2:65:G:O5'	1.97	0.64
30:D2:92:A:C2'	30:D2:93:C:O4'	2.45	0.64
36:DE:130:GLU:HA	36:DE:131:LEU:CB	2.26	0.64
1:A1:89:G:C2	1:A1:90:C:C2	2.85	0.64
1:A1:859:A:H4'	1:A1:860:U:OP2	1.98	0.64
1:A1:1112:G:N7	1:A1:1113:A:N7	2.45	0.64
1:A1:1239:U:O2'	1:A1:1240:U:H5'	1.98	0.64
1:A1:1497:U:C4	1:A1:1498:G:N7	2.66	0.64
1:A1:1683:C:P	1:A1:1684:U:OP1	2.56	0.64
14:AM:13:ASP:C	14:AM:15:ILE:H	2.06	0.64
20:AS:25:SER:O	20:AS:27:HIS:N	2.30	0.64
29:B1:210:U:OP2	29:B1:210:U:H6	1.77	0.64
29:B1:221:A:C4	29:B1:224:C:N4	2.66	0.64
29:B1:296:A:C5	29:B1:297:G:N1	2.66	0.64
29:B1:342:A:C6	29:B1:349:A:C8	2.87	0.64
29:B1:515:C:C6	29:B1:515:C:P	2.91	0.64
29:B1:559:A:H2'	29:B1:560:G:H8	1.63	0.64
29:B1:589:A:OP2	29:B1:611:A:C2	2.51	0.64
29:B1:591:G:C2	29:B1:592:A:C1'	2.78	0.64
29:B1:592:A:C2	29:B1:593:C:C6	2.86	0.64
29:B1:998:A:C2'	29:B1:999:G:H5'	2.27	0.64
29:B1:1547:G:H2'	29:B1:1548:C:C5	2.32	0.64
29:B1:1684:U:H6	29:B1:1684:U:H3'	1.63	0.64
29:B1:1815:U:C2'	29:B1:1816:A:H5'	2.28	0.64
29:B1:2405:C:O2	29:B1:2405:C:C2'	2.46	0.64
29:B1:2520:A:N3	29:B1:2521:U:N3	2.46	0.64
29:B1:2631:U:C2	29:B1:2632:G:C8	2.86	0.64
29:B1:2673:A:P	42:BK:105:GLY:HA2	2.38	0.64
29:B1:2984:C:O2'	29:B1:2985:C:H5'	1.97	0.64
29:B1:3105:U:C5	29:B1:3106:A:N7	2.65	0.64
29:B1:3121:U:C2	29:B1:3122:A:N7	2.66	0.64
29:B1:3263:G:N2	29:B1:3264:G:C4	2.66	0.64
35:BD:6:VAL:CB	35:BD:20:LEU:H	2.11	0.64
47:BR:123:THR:O	47:BR:125:ASP:N	2.31	0.64
49:BT:73:GLY:H	49:BT:92:ARG:HA	1.62	0.64
1:C1:67:A:H4'	1:C1:68:A:OP1	1.98	0.64
1:C1:142:G:C6	1:C1:266:A:C5	2.86	0.64
1:C1:252:U:O2'	1:C1:253:A:O5'	2.16	0.64
1:C1:300:A:H2'	1:C1:301:A:O4'	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:541:A:H4'	1:C1:542:A:OP1	1.98	0.64
1:C1:1244:A:H2	1:C1:1245:G:N9	1.93	0.64
1:C1:1334:U:N3	1:C1:1335:U:C5	2.65	0.64
1:C1:1382:A:N3	1:C1:1383:G:C8	2.66	0.64
1:C1:1489:U:H5	1:C1:1513:G:C2	2.15	0.64
1:C1:1591:C:H4'	1:C1:1592:A:OP1	1.97	0.64
1:C1:1676:U:H2'	1:C1:1677:C:C5	2.31	0.64
3:CB:188:LEU:O	3:CB:191:ALA:N	2.32	0.64
5:CD:146:THR:HA	5:CD:158:GLN:O	1.99	0.64
24:Cc:4:UNK:C	24:Cc:99:UNK:N	2.61	0.64
29:D1:69:C:H2'	29:D1:69:C:O2	1.97	0.64
29:D1:80:G:C2	29:D1:81:C:C5	2.86	0.64
29:D1:424:G:C2'	29:D1:425:G:OP1	2.46	0.64
29:D1:559:A:C5	29:D1:560:G:N7	2.65	0.64
29:D1:588:G:N1	29:D1:612:U:C5	2.66	0.64
29:D1:724:U:H2'	29:D1:725:G:C8	2.32	0.64
29:D1:974:G:C6	29:D1:975:C:C4	2.86	0.64
29:D1:1174:G:C2	29:D1:1175:C:C6	2.86	0.64
29:D1:1178:G:N7	29:D1:1179:A:C6	2.66	0.64
29:D1:1194:G:C8	29:D1:1319:G:H5"	2.33	0.64
29:D1:1412:G:C4	29:D1:1413:G:C8	2.86	0.64
29:D1:1621:A:H2'	29:D1:1622:U:H6	1.62	0.64
29:D1:2119:A:C5	29:D1:2120:A:N1	2.66	0.64
29:D1:2511:A:H2'	29:D1:2512:C:H5'	1.80	0.64
29:D1:2545:C:H2'	29:D1:2546:C:O4'	1.98	0.64
29:D1:2555:G:C1'	29:D1:2556:C:OP2	2.46	0.64
29:D1:2580:A:C1'	29:D1:2581:U:P	2.86	0.64
29:D1:2673:A:H2	29:D1:2674:A:C5	2.15	0.64
29:D1:2677:G:N1	29:D1:2679:A:C4	2.66	0.64
29:D1:2738:A:H5"	29:D1:2739:A:OP2	1.98	0.64
29:D1:2909:U:C4	29:D1:2910:A:C8	2.86	0.64
29:D1:2987:A:C5	29:D1:2988:C:C5	2.86	0.64
29:D1:3067:C:O2'	29:D1:3068:U:H5'	1.97	0.64
29:D1:3141:A:C2	29:D1:3144:G:P	2.91	0.64
29:D1:3147:G:H4'	34:DC:101:SER:H	1.63	0.64
29:D1:3353:G:H3'	29:D1:3354:U:C5'	2.26	0.64
30:D2:44:C:C5	30:D2:45:A:N7	2.66	0.64
74:D3:202:OHX:N5	74:D3:212:OHX:N1	2.46	0.64
36:DE:111:GLN:N	36:DE:114:GLY:C	2.51	0.64
36:DE:217:GLU:O	36:DE:221:GLU:N	2.27	0.64
39:DH:205:ALA:H	39:DH:206:GLU:C	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DW:110:VAL:O	52:DW:111:ASN:C	2.40	0.64
53:DX:64:LYS:C	53:DX:66:GLN:H	2.05	0.64
54:DY:130:VAL:O	54:DY:134:ALA:HB3	1.98	0.64
1:A1:142:G:C6	1:A1:266:A:C5	2.86	0.63
1:A1:187:G:H4'	1:A1:187:G:OP1	1.97	0.63
1:A1:288:A:C4	1:A1:289:U:C5	2.86	0.63
1:A1:326:G:O6	1:A1:337:G:O6	2.16	0.63
1:A1:618:U:C2'	1:A1:619:A:H5'	2.27	0.63
1:A1:879:G:H5'	8:AG:108:ASP:HA	1.80	0.63
1:A1:1131:A:N3	1:A1:1131:A:H2'	2.13	0.63
1:A1:1273:G:H4'	1:A1:1274:C:C4'	2.28	0.63
1:A1:1291:G:O5'	1:A1:1291:G:H8	1.80	0.63
1:A1:1305:U:H3'	1:A1:1306:C:C2	2.33	0.63
1:A1:1409:G:H8	1:A1:1411:A:OP2	1.81	0.63
1:A1:1467:C:C2'	1:A1:1468:U:H5'	2.27	0.63
1:A1:1488:G:O2'	1:A1:1494:C:H1'	1.98	0.63
17:AP:127:VAL:CA	17:AP:129:GLY:N	2.62	0.63
29:B1:122:A:H1'	29:B1:150:A:H4'	1.80	0.63
29:B1:286:U:C2'	29:B1:287:G:C8	2.67	0.63
29:B1:536:U:OP2	29:B1:536:U:H2'	1.97	0.63
29:B1:548:G:H2'	29:B1:549:U:H4'	1.80	0.63
29:B1:726:G:C6	29:B1:727:G:C6	2.85	0.63
29:B1:835:G:N3	29:B1:857:G:N2	2.46	0.63
29:B1:878:G:H2'	29:B1:2980:U:O2'	1.98	0.63
29:B1:880:G:H2'	29:B1:882:A:OP2	1.98	0.63
29:B1:950:G:H8	29:B1:950:G:O5'	1.81	0.63
29:B1:1115:G:H3'	29:B1:1115:G:C8	2.33	0.63
29:B1:1509:A:C6	29:B1:1510:G:C2	2.86	0.63
29:B1:1844:C:N3	29:B1:1845:G:C8	2.65	0.63
29:B1:2123:G:O2'	29:B1:2124:G:H5'	1.97	0.63
29:B1:2167:A:C3'	29:B1:2168:A:H8	2.11	0.63
29:B1:2223:A:N1	29:B1:2783:U:H1'	2.13	0.63
29:B1:2275:A:C2	29:B1:2312:A:C5	2.86	0.63
29:B1:2278:C:C2'	29:B1:2279:A:H5"	2.27	0.63
29:B1:2326:A:H2'	29:B1:2326:A:N3	2.12	0.63
29:B1:2383:C:C2	29:B1:2384:A:C8	2.85	0.63
29:B1:2383:C:H2'	29:B1:2384:A:H8	1.64	0.63
29:B1:2510:U:N3	29:B1:2511:A:C8	2.66	0.63
29:B1:2746:A:N6	29:B1:2747:A:C2	2.66	0.63
29:B1:2752:U:H3'	29:B1:2752:U:O2	1.98	0.63
29:B1:2814:G:C2	29:B1:2815:G:C4	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2903:A:C4	29:B1:2904:U:H6	2.16	0.63
29:B1:2947:G:C2	29:B1:2948:C:C4	2.85	0.63
31:B3:10:A:H2'	31:B3:11:C:H6	1.61	0.63
31:B3:48:A:C6	31:B3:51:G:C5	2.86	0.63
31:B3:91:C:H2'	31:B3:92:A:C8	2.33	0.63
34:BC:105:VAL:O	34:BC:107:ALA:N	2.31	0.63
66:Bl:5:UNK:O	66:Bl:9:UNK:CB	2.46	0.63
1:C1:123:G:C6	1:C1:295:A:N6	2.66	0.63
1:C1:183:U:C4'	1:C1:184:C:OP1	2.45	0.63
1:C1:336:G:C2'	1:C1:337:G:H5"	2.27	0.63
1:C1:963:A:O2'	1:C1:964:U:O5'	2.16	0.63
1:C1:969:C:H4'	1:C1:1104:U:O2'	1.98	0.63
1:C1:1149:G:C2	1:C1:1150:G:N7	2.66	0.63
1:C1:1159:C:H3'	1:C1:1160:A:C5'	2.27	0.63
1:C1:1196:A:H5"	1:C1:1196:A:N3	2.13	0.63
1:C1:1291:G:O5'	1:C1:1291:G:H8	1.81	0.63
1:C1:1335:U:O2	1:C1:1335:U:H2'	1.97	0.63
1:C1:1337:A:H5'	1:C1:1338:C:OP2	1.98	0.63
1:C1:1338:C:H1'	1:C1:1410:A:N3	2.12	0.63
1:C1:1720:G:H2'	1:C1:1721:A:C8	2.33	0.63
5:CD:200:ASN:C	5:CD:204:GLY:HA3	2.24	0.63
11:CJ:14:LYS:O	11:CJ:15:SER:CB	2.46	0.63
21:CT:84:SER:C	21:CT:86:ASP:N	2.56	0.63
29:D1:158:G:H2'	29:D1:159:A:H4'	1.80	0.63
29:D1:525:C:H2'	29:D1:526:C:C6	2.33	0.63
29:D1:533:A:H2'	29:D1:534:U:C5	2.33	0.63
29:D1:609:G:H3'	29:D1:609:G:OP1	1.98	0.63
29:D1:636:C:O2	29:D1:636:C:C2'	2.44	0.63
29:D1:722:G:N1	29:D1:748:U:C2	2.66	0.63
29:D1:724:U:H2'	29:D1:725:G:H8	1.63	0.63
29:D1:887:G:H2'	29:D1:888:A:H8	1.63	0.63
29:D1:911:C:O2	29:D1:911:C:C2'	2.46	0.63
29:D1:1232:C:N3	29:D1:1261:G:C2	2.66	0.63
29:D1:1286:A:H4'	29:D1:1287:A:H5'	1.79	0.63
29:D1:1350:A:H3'	29:D1:1351:U:C6	2.32	0.63
29:D1:1351:U:O3'	29:D1:1352:A:C8	2.51	0.63
29:D1:1469:C:O2	29:D1:1509:A:C2	2.51	0.63
29:D1:1623:G:H2'	29:D1:1624:G:O4'	1.97	0.63
29:D1:2112:U:C1'	29:D1:2113:A:OP2	2.46	0.63
29:D1:2315:G:N2	29:D1:2316:G:C8	2.66	0.63
29:D1:2354:C:O2	29:D1:2354:C:C2'	2.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2476:C:H2'	29:D1:2477:G:C4'	2.28	0.63
29:D1:2595:A:H2'	29:D1:2596:U:C6	2.32	0.63
29:D1:2676:A:C2	29:D1:2680:A:N1	2.65	0.63
29:D1:2714:G:C2	29:D1:2751:G:C2	2.86	0.63
29:D1:2716:U:H5'	29:D1:2717:U:OP2	1.97	0.63
29:D1:2946:A:C5	29:D1:2982:A:N6	2.64	0.63
29:D1:3226:A:H8	29:D1:3226:A:O5'	1.80	0.63
29:D1:3394:U:H2'	29:D1:3395:G:C8	2.33	0.63
29:D1:3395:G:O2'	29:D1:3396:U:P	2.56	0.63
74:D1:3543:OHX:N5	38:DG:217:PRO:O	2.31	0.63
30:D2:11:A:N1	36:DE:16:PHE:HA	2.14	0.63
30:D2:56:A:O3'	42:DK:149:GLY:HA2	1.98	0.63
31:D3:81:U:C3'	31:D3:82:U:H5"	2.28	0.63
32:DA:68:PHE:H	32:DA:112:ALA:CB	2.11	0.63
35:DD:84:ARG:C	35:DD:86:GLY:H	2.06	0.63
35:DD:177:ASP:C	35:DD:179:LEU:H	2.05	0.63
38:DG:84:VAL:C	38:DG:86:VAL:H	2.05	0.63
1:A1:284:G:C8	25:Ad:114:UNK:C	2.81	0.63
1:A1:320:U:OP1	1:A1:321:C:H4'	1.98	0.63
1:A1:390:G:N2	1:A1:391:A:C6	2.67	0.63
1:A1:704:C:C4'	1:A1:705:U:OP1	2.46	0.63
1:A1:1251:U:H2'	1:A1:1252:C:O4'	1.98	0.63
1:A1:1339:C:C2'	1:A1:1340:U:H5'	2.27	0.63
1:A1:1579:U:C2	1:A1:1580:C:C5	2.86	0.63
29:B1:326:U:H4'	29:B1:327:A:OP2	1.97	0.63
29:B1:692:A:H2'	29:B1:693:A:C8	2.33	0.63
29:B1:1018:G:N1	29:B1:1019:G:O6	2.31	0.63
29:B1:1064:A:O2'	29:B1:1065:A:P	2.55	0.63
29:B1:1119:C:H3'	29:B1:1120:A:H8	1.63	0.63
29:B1:1280:C:O2'	29:B1:1281:G:H5'	1.98	0.63
29:B1:1453:A:N3	29:B1:1878:G:N2	2.46	0.63
29:B1:1540:U:H2'	29:B1:1541:G:H5'	1.80	0.63
29:B1:1647:A:N1	29:B1:1809:A:H1'	2.12	0.63
29:B1:1838:G:H4'	29:B1:1839:A:C8	2.32	0.63
29:B1:1941:C:O2'	29:B1:3363:U:H1'	1.99	0.63
29:B1:2255:A:C2	29:B1:2260:U:O4	2.51	0.63
29:B1:2276:G:C6	29:B1:2277:C:C5	2.86	0.63
29:B1:2560:C:H3'	29:B1:2561:A:C5'	2.29	0.63
29:B1:2830:G:C4	29:B1:2831:G:C8	2.86	0.63
29:B1:3028:G:N1	29:B1:3029:A:C2	2.67	0.63
29:B1:3294:A:C6	29:B1:3295:A:C5	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:25:G:H2'	30:B2:26:C:C5	2.33	0.63
34:BC:105:VAL:O	34:BC:106:TRP:C	2.39	0.63
36:BE:226:TYR:O	36:BE:230:ASP:HA	1.97	0.63
40:BI:161:LEU:C	40:BI:163:GLN:H	2.06	0.63
42:BK:74:PRO:C	42:BK:76:ALA:H	2.07	0.63
44:BO:148:TYR:O	44:BO:150:TRP:N	2.32	0.63
54:BY:73:LEU:HA	54:BY:116:GLY:CA	2.29	0.63
57:Bb:89:THR:CB	57:Bb:90:LYS:C	2.71	0.63
1:C1:97:C:C1'	1:C1:426:G:H5'	2.24	0.63
1:C1:105:A:N1	74:C1:1916:OHX:N5	2.47	0.63
1:C1:195:G:O2'	1:C1:196:G:H5"	1.98	0.63
1:C1:282:C:H2'	1:C1:282:C:O2	1.98	0.63
1:C1:400:A:C5'	1:C1:401:A:H5'	2.28	0.63
1:C1:436:A:H5"	1:C1:437:A:OP2	1.98	0.63
1:C1:849:C:C4	1:C1:850:A:N7	2.66	0.63
1:C1:908:U:C5	1:C1:909:U:C6	2.87	0.63
1:C1:1005:A:C5	1:C1:1006:C:C4	2.87	0.63
1:C1:1172:G:C6	1:C1:1173:C:C4	2.86	0.63
1:C1:1382:A:O2'	1:C1:1383:G:H5"	1.98	0.63
1:C1:1453:G:H2'	1:C1:1454:G:H8	1.63	0.63
1:C1:1602:C:C3'	1:C1:1603:U:H6	2.11	0.63
5:CD:169:ASN:O	5:CD:172:ILE:N	2.31	0.63
10:CI:73:PRO:O	10:CI:74:ALA:HB2	1.98	0.63
13:CL:121:ALA:HB3	13:CL:124:GLY:CA	2.26	0.63
22:Ca:7:UNK:O	22:Ca:8:UNK:C	2.46	0.63
29:D1:11:A:H1'	29:D1:1557:A:H61	1.62	0.63
29:D1:882:A:H5"	29:D1:1849:C:O2	1.99	0.63
29:D1:940:G:OP1	29:D1:2871:G:O6	2.16	0.63
29:D1:1013:G:C3'	29:D1:1014:U:H4'	2.27	0.63
29:D1:1230:G:H5'	73:DM:32:ASN:CB	2.29	0.63
29:D1:1453:A:N3	29:D1:1878:G:N2	2.46	0.63
29:D1:1857:C:H6	29:D1:1857:C:OP2	1.81	0.63
29:D1:2116:G:H5'	29:D1:2116:G:N3	2.13	0.63
29:D1:2194:G:H2'	29:D1:2195:C:H5'	1.79	0.63
29:D1:2289:U:O2'	29:D1:2290:C:H5'	1.98	0.63
29:D1:2290:C:H2'	29:D1:2291:A:H8	1.64	0.63
29:D1:2702:A:H8	29:D1:2704:A:C6	2.16	0.63
29:D1:3265:C:H5'	29:D1:3265:C:H6	1.62	0.63
29:D1:3386:G:C8	29:D1:3386:G:H3'	2.32	0.63
31:D3:28:C:H2'	31:D3:28:C:O2	1.98	0.63
31:D3:72:A:H61	31:D3:85:G:H5"	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:141:C:C2	31:D3:142:C:C5	2.86	0.63
34:DC:48:GLY:O	34:DC:49:TYR:CB	2.46	0.63
34:DC:299:ASP:C	34:DC:301:THR:H	2.06	0.63
35:DD:237:GLN:C	35:DD:239:ALA:H	2.04	0.63
36:DE:226:TYR:CB	36:DE:233:ALA:H	2.12	0.63
41:DJ:161:GLY:CA	41:DJ:162:GLN:CB	2.74	0.63
44:DO:29:GLU:O	44:DO:30:TYR:C	2.42	0.63
46:DQ:52:LEU:C	46:DQ:54:HIS:N	2.52	0.63
54:DY:129:PHE:CB	54:DY:130:VAL:CA	2.75	0.63
56:Da:12:TYR:O	56:Da:72:ARG:HA	1.98	0.63
1:A1:63:G:C2	1:A1:64:U:H1'	2.33	0.63
1:A1:168:A:H2'	1:A1:169:A:C8	2.33	0.63
1:A1:199:G:C6	1:A1:200:A:N6	2.67	0.63
1:A1:218:A:H61	1:A1:844:A:H1'	1.64	0.63
1:A1:243:G:O2'	1:A1:244:A:H5'	1.98	0.63
1:A1:719:U:O2	1:A1:719:U:H3'	1.98	0.63
1:A1:772:G:C6	1:A1:773:C:N3	2.66	0.63
1:A1:1392:U:H6	1:A1:1392:U:H5"	1.62	0.63
1:A1:1458:G:H5"	1:A1:1458:G:C4	2.33	0.63
1:A1:1472:C:C1'	1:A1:1473:U:OP2	2.45	0.63
1:A1:1481:C:C6	1:A1:1482:C:C2	2.86	0.63
1:A1:1625:C:H2'	1:A1:1626:U:H6	1.61	0.63
1:A1:1636:C:C4	1:A1:1765:A:N6	2.66	0.63
8:AG:91:LEU:O	8:AG:95:ALA:CB	2.47	0.63
29:B1:235:A:H2'	29:B1:236:G:C8	2.33	0.63
29:B1:558:U:O2'	29:B1:559:A:OP1	2.16	0.63
29:B1:564:G:H2'	29:B1:565:U:C6	2.33	0.63
29:B1:645:A:N7	29:B1:649:A:C6	2.66	0.63
29:B1:739:G:C2'	29:B1:740:G:C8	2.81	0.63
29:B1:764:U:H4'	29:B1:766:U:H5	1.61	0.63
29:B1:1013:G:C3'	29:B1:1014:U:H4'	2.27	0.63
29:B1:1056:U:H6	29:B1:1056:U:O5'	1.81	0.63
29:B1:1190:A:N3	29:B1:1190:A:H2'	2.12	0.63
29:B1:1196:C:O2	30:B2:86:U:C6	2.51	0.63
29:B1:1212:A:N1	29:B1:1294:A:C2	2.66	0.63
29:B1:1356:U:H2'	29:B1:1356:U:O2	1.98	0.63
29:B1:1394:A:H2'	29:B1:1395:G:O5'	1.98	0.63
29:B1:1656:A:C1'	29:B1:1657:C:C5	2.82	0.63
29:B1:1902:G:OP2	29:B1:2919:A:OP1	2.17	0.63
29:B1:1939:G:O2'	29:B1:1940:G:H5'	1.99	0.63
29:B1:2143:A:C8	29:B1:2145:A:N7	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2719:U:H4'	29:B1:2719:U:OP1	1.99	0.63
29:B1:2746:A:C2	36:BE:146:LEU:CB	2.81	0.63
29:B1:3065:G:O2'	29:B1:3066:U:O5'	2.11	0.63
29:B1:3097:C:O2'	29:B1:3098:G:P	2.56	0.63
29:B1:3309:G:C2	29:B1:3310:A:N7	2.67	0.63
29:B1:3333:G:N1	29:B1:3370:A:H4'	2.13	0.63
30:B2:100:C:H5'	30:B2:101:G:OP2	1.98	0.63
47:BR:150:VAL:CB	47:BR:151:ARG:HA	2.29	0.63
1:C1:97:C:O2	1:C1:425:A:O2'	2.14	0.63
1:C1:535:A:O2'	1:C1:536:C:H5'	1.98	0.63
1:C1:611:U:C5	1:C1:612:U:C5	2.86	0.63
1:C1:749:U:C4	1:C1:750:U:O4	2.51	0.63
1:C1:790:U:H2'	1:C1:790:U:O2	1.98	0.63
1:C1:992:A:N1	1:C1:1012:U:O2	2.31	0.63
1:C1:1125:A:C5	1:C1:1126:G:H1'	2.33	0.63
1:C1:1297:G:N2	1:C1:1301:U:C2	2.66	0.63
1:C1:1491:U:C3'	1:C1:1492:A:H2'	2.28	0.63
1:C1:1586:A:C4	1:C1:1611:A:C2	2.86	0.63
1:C1:1634:C:C6	1:C1:1634:C:O5'	2.52	0.63
2:CA:80:THR:C	2:CA:82:GLY:H	2.06	0.63
3:CB:165:VAL:CA	3:CB:166:THR:CB	2.75	0.63
4:CC:16:VAL:O	4:CC:18:TYR:N	2.32	0.63
29:D1:25:U:N3	29:D1:331:G:C8	2.66	0.63
29:D1:337:G:C6	29:D1:339:C:N4	2.66	0.63
29:D1:407:A:C8	29:D1:407:A:O5'	2.51	0.63
29:D1:648:C:O2	29:D1:2397:A:O4'	2.17	0.63
29:D1:705:A:C5	29:D1:715:A:N6	2.67	0.63
29:D1:718:G:H4'	29:D1:719:U:H5"	1.79	0.63
29:D1:1053:A:H2'	29:D1:1053:A:N3	2.13	0.63
29:D1:1056:U:H4'	30:D2:82:G:H4'	1.81	0.63
29:D1:1093:A:H2'	29:D1:1094:U:C2	2.32	0.63
29:D1:1484:U:C1'	29:D1:1485:G:OP1	2.45	0.63
29:D1:1522:U:H4'	29:D1:1523:U:OP2	1.98	0.63
29:D1:1779:C:C4'	29:D1:1779:C:OP1	2.46	0.63
29:D1:1830:G:C4	29:D1:1831:U:C6	2.86	0.63
29:D1:2107:A:C4	29:D1:2108:C:C5	2.85	0.63
29:D1:2143:A:H3'	29:D1:2143:A:H8	1.64	0.63
29:D1:2288:G:H2'	29:D1:2289:U:C6	2.31	0.63
29:D1:2857:C:H2'	29:D1:2858:U:C6	2.31	0.63
29:D1:2912:G:C2	29:D1:2913:C:O2	2.52	0.63
29:D1:3098:G:C5'	29:D1:3099:C:OP1	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3142:A:H3'	29:D1:3143:C:H5'	1.81	0.63
29:D1:3171:U:O2'	29:D1:3172:A:P	2.56	0.63
29:D1:3209:A:N1	29:D1:3210:A:C2	2.66	0.63
29:D1:3209:A:H2'	29:D1:3210:A:N9	2.13	0.63
29:D1:3218:A:O2'	29:D1:3219:G:C3'	2.41	0.63
29:D1:3314:A:H2'	34:DC:119:TYR:O	1.97	0.63
30:D2:67:G:N2	30:D2:68:C:O4'	2.32	0.63
31:D3:56:G:C6	31:D3:62:C:N4	2.66	0.63
31:D3:75:G:OP1	31:D3:90:U:H5"	1.97	0.63
31:D3:82:U:H2'	31:D3:83:C:O2	1.98	0.63
34:DC:164:THR:CB	34:DC:177:HIS:H	2.11	0.63
40:DI:111:PHE:CA	40:DI:112:ILE:C	2.71	0.63
41:DJ:47:PRO:O	41:DJ:140:THR:O	2.16	0.63
45:DP:166:GLU:O	45:DP:168:TYR:N	2.31	0.63
54:DY:129:PHE:CB	54:DY:130:VAL:HA	2.27	0.63
62:Dg:59:CYS:C	74:Dg:101:OHX:N5	2.55	0.63
1:A1:66:U:O2'	1:A1:67:A:P	2.56	0.63
1:A1:215:A:H8	1:A1:215:A:O5'	1.81	0.63
1:A1:238:U:H4'	1:A1:239:C:H5"	1.80	0.63
1:A1:297:U:H2'	1:A1:298:C:C5'	2.29	0.63
1:A1:832:U:H5'	1:A1:833:U:OP2	1.97	0.63
1:A1:1410:A:H2'	1:A1:1411:A:O4'	1.98	0.63
1:A1:1637:C:OP2	1:A1:1637:C:H4'	1.98	0.63
1:A1:1734:U:C2	1:A1:1735:U:C5	2.87	0.63
2:AA:219:THR:O	2:AA:220:THR:O	2.16	0.63
3:AB:157:LYS:O	3:AB:213:ALA:HB1	1.98	0.63
11:AJ:35:PRO:C	11:AJ:37:THR:H	2.06	0.63
29:B1:72:C:H3'	29:B1:73:C:H5'	1.79	0.63
29:B1:286:U:C2	29:B1:287:G:N7	2.66	0.63
29:B1:296:A:C5	29:B1:297:G:C2	2.87	0.63
29:B1:386:A:O5'	29:B1:386:A:H8	1.80	0.63
29:B1:1198:C:C2'	29:B1:1200:A:H8	2.11	0.63
29:B1:1764:U:H2'	29:B1:1765:U:O4'	1.99	0.63
29:B1:1909:A:N1	29:B1:1910:A:N3	2.46	0.63
29:B1:2310:U:H2'	29:B1:2311:G:O5'	1.98	0.63
29:B1:2655:U:H4'	29:B1:2656:A:H5'	1.78	0.63
29:B1:2942:C:C6	29:B1:2942:C:C3'	2.81	0.63
29:B1:3149:G:C4	29:B1:3150:A:C8	2.87	0.63
29:B1:3316:A:N6	29:B1:3388:C:N4	2.43	0.63
29:B1:3386:G:C8	29:B1:3386:G:C3'	2.81	0.63
32:BA:101:LYS:O	32:BA:105:LYS:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:83:VAL:O	47:BR:103:ALA:HB3	1.99	0.63
65:Bk:8:UNK:O	65:Bk:12:UNK:N	2.30	0.63
1:C1:478:A:N1	1:C1:479:C:C4	2.67	0.63
1:C1:513:U:H5	1:C1:538:A:C6	2.15	0.63
1:C1:515:A:P	74:C1:1933:OHX:N6	2.71	0.63
1:C1:530:C:H5"	1:C1:531:C:OP2	1.98	0.63
1:C1:610:G:C2	1:C1:614:C:N3	2.66	0.63
1:C1:832:U:H5'	1:C1:833:U:OP2	1.99	0.63
1:C1:860:U:O2	1:C1:860:U:H2'	1.97	0.63
1:C1:973:A:H4'	29:D1:847:A:C2	2.33	0.63
1:C1:1322:A:H2'	1:C1:1323:C:C6	2.33	0.63
1:C1:1542:G:H8	1:C1:1542:G:OP2	1.81	0.63
1:C1:1665:U:O4	74:C1:1993:OHX:N5	2.31	0.63
3:CB:185:LYS:O	3:CB:186:LYS:C	2.41	0.63
13:CL:78:HIS:O	13:CL:80:LYS:N	2.31	0.63
14:CM:126:GLU:O	14:CM:128:GLY:N	2.30	0.63
16:CO:8:ALA:O	16:CO:12:ASN:CB	2.47	0.63
29:D1:58:G:H5"	29:D1:59:G:OP2	1.97	0.63
29:D1:88:A:C2	29:D1:281:G:N3	2.67	0.63
29:D1:114:A:OP2	29:D1:154:U:O4	2.17	0.63
29:D1:351:A:H8	31:D3:53:A:H1'	1.64	0.63
29:D1:383:G:C2'	29:D1:385:A:O5'	2.38	0.63
29:D1:688:G:C1'	29:D1:692:A:H61	2.11	0.63
29:D1:693:A:C4	29:D1:694:C:C5	2.86	0.63
29:D1:747:A:OP1	29:D1:747:A:C8	2.51	0.63
29:D1:824:C:O2'	29:D1:825:U:H5'	1.99	0.63
29:D1:826:G:C5	29:D1:827:A:N7	2.66	0.63
29:D1:941:G:O4'	29:D1:1435:A:H1'	1.99	0.63
29:D1:1003:A:C2	29:D1:1004:U:C1'	2.81	0.63
29:D1:1079:A:C6	29:D1:1080:A:N6	2.67	0.63
29:D1:1282:G:H2'	29:D1:1283:C:O4'	1.99	0.63
29:D1:1607:U:C1'	29:D1:1608:C:OP1	2.43	0.63
29:D1:1615:C:H2'	29:D1:1616:U:C6	2.32	0.63
29:D1:1819:U:C6	29:D1:1820:U:C5	2.86	0.63
29:D1:1895:A:C6	29:D1:2341:A:C6	2.87	0.63
29:D1:1896:A:C2	29:D1:3093:C:C6	2.86	0.63
29:D1:1931:U:N3	29:D1:2121:G:N3	2.46	0.63
29:D1:3079:U:O2	29:D1:3079:U:C2'	2.46	0.63
29:D1:3113:A:C2'	29:D1:3114:A:H5'	2.29	0.63
29:D1:3137:C:O2	29:D1:3137:C:C2'	2.40	0.63
29:D1:3199:G:C2'	29:D1:3200:G:C8	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3218:A:C4'	29:D1:3220:G:H8	2.12	0.63
29:D1:3277:U:H3'	29:D1:3277:U:C6	2.33	0.63
29:D1:3309:G:N3	29:D1:3310:A:C8	2.67	0.63
29:D1:3309:G:H3'	29:D1:3310:A:H8	1.64	0.63
29:D1:3320:A:C5	29:D1:3321:C:N4	2.67	0.63
30:D2:46:A:O5'	30:D2:46:A:C4	2.52	0.63
30:D2:69:C:C4	30:D2:70:U:O4	2.51	0.63
38:DG:83:LEU:CA	38:DG:84:VAL:CB	2.75	0.63
40:DI:69:ARG:C	40:DI:71:VAL:N	2.53	0.63
40:DI:117:PHE:O	40:DI:118:LEU:C	2.41	0.63
40:DI:157:ASN:O	40:DI:158:ALA:C	2.42	0.63
43:DN:97:SER:C	43:DN:99:TRP:H	2.06	0.63
45:DP:45:GLY:N	45:DP:134:LYS:O	2.26	0.63
46:DQ:68:GLY:O	46:DQ:69:ARG:O	2.17	0.63
1:A1:166:C:C4	1:A1:167:U:O4	2.52	0.63
1:A1:310:C:H3'	1:A1:310:C:C6	2.33	0.63
1:A1:322:G:O4'	1:A1:323:A:C8	2.52	0.63
1:A1:1049:U:H2'	1:A1:1050:G:H8	1.61	0.63
1:A1:1113:A:O3'	1:A1:1114:G:H4'	1.98	0.63
1:A1:1358:G:C6	1:A1:1359:C:N4	2.67	0.63
13:AL:78:HIS:O	13:AL:80:LYS:N	2.31	0.63
16:AO:62:VAL:O	16:AO:63:VAL:CB	2.45	0.63
17:AP:46:SER:C	17:AP:48:HIS:H	2.07	0.63
29:B1:130:A:C2	29:B1:139:G:C5	2.85	0.63
29:B1:271:C:C6	29:B1:295:A:N6	2.67	0.63
29:B1:594:U:C4	29:B1:595:G:N1	2.66	0.63
29:B1:715:A:HO2'	29:B1:716:A:P	2.22	0.63
29:B1:1153:A:N6	29:B1:1154:A:N1	2.41	0.63
29:B1:1164:G:H2'	29:B1:1165:A:C8	2.33	0.63
29:B1:1255:C:C5	74:B1:3567:OHX:N2	2.66	0.63
29:B1:1257:C:C5	29:B1:1258:U:H1'	2.32	0.63
29:B1:1782:U:OP2	29:B1:1782:U:H3'	1.99	0.63
29:B1:1864:A:H5"	29:B1:1865:A:OP2	1.97	0.63
29:B1:1899:G:C2	29:B1:2334:U:C5	2.87	0.63
29:B1:2378:C:H2'	29:B1:2378:C:O2	1.99	0.63
29:B1:2520:A:N3	29:B1:2521:U:C2	2.66	0.63
29:B1:2639:G:N2	29:B1:2640:A:H1'	2.14	0.63
29:B1:2678:A:H3'	29:B1:2679:A:N3	2.14	0.63
29:B1:2904:U:O2	29:B1:2904:U:C2'	2.46	0.63
29:B1:2945:G:O2'	29:B1:2948:C:OP2	2.16	0.63
29:B1:2998:U:H2'	29:B1:2999:U:H6	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3105:U:C5	29:B1:3128:G:N2	2.63	0.63
36:BE:156:GLY:HA2	36:BE:181:PRO:HA	1.78	0.63
48:BS:98:ARG:O	48:BS:101:VAL:N	2.31	0.63
49:BT:53:PRO:O	49:BT:55:LYS:N	2.32	0.63
54:BY:67:HIS:CB	54:BY:107:ALA:O	2.47	0.63
65:Bk:6:UNK:O	65:Bk:10:UNK:N	2.32	0.63
1:C1:187:G:OP1	1:C1:187:G:H4'	1.96	0.63
1:C1:235:G:H2'	1:C1:236:A:C8	2.33	0.63
1:C1:246:G:O6	1:C1:247:A:H2	1.80	0.63
1:C1:534:A:C3'	1:C1:535:A:C8	2.82	0.63
1:C1:832:U:H3'	1:C1:833:U:C5'	2.29	0.63
1:C1:841:U:C4	1:C1:842:C:C4	2.86	0.63
1:C1:975:C:C2	1:C1:976:G:C8	2.87	0.63
1:C1:1132:A:C2	1:C1:1133:A:N7	2.66	0.63
1:C1:1454:G:C2'	1:C1:1455:G:H5'	2.29	0.63
1:C1:1560:U:O2	1:C1:1560:U:C2'	2.41	0.63
1:C1:1595:U:C6	1:C1:1596:C:N3	2.64	0.63
1:C1:1754:A:HO2'	1:C1:1755:A:P	2.22	0.63
1:C1:1761:U:H1'	1:C1:1762:A:N7	2.14	0.63
6:CE:130:THR:O	6:CE:132:ARG:N	2.31	0.63
29:D1:511:G:C2	29:D1:580:C:N3	2.63	0.63
29:D1:522:A:C5	29:D1:523:A:C8	2.86	0.63
29:D1:703:G:C6	29:D1:704:U:C4	2.86	0.63
29:D1:748:U:O2	29:D1:748:U:C2'	2.46	0.63
29:D1:781:G:O2'	29:D1:782:U:H5'	1.99	0.63
29:D1:972:A:C2'	29:D1:973:A:H5'	2.27	0.63
29:D1:1297:C:C2'	29:D1:1298:C:H5'	2.26	0.63
29:D1:1389:G:O2'	29:D1:1390:A:O5'	2.16	0.63
29:D1:1455:U:H3'	29:D1:1456:A:C8	2.32	0.63
29:D1:1634:G:C6	29:D1:1640:G:O6	2.51	0.63
29:D1:2101:C:H2'	29:D1:2102:U:O4'	1.99	0.63
29:D1:2119:A:H8	29:D1:2119:A:O5'	1.82	0.63
29:D1:2259:A:H5"	29:D1:2260:U:H5	1.62	0.63
29:D1:2294:U:O2	29:D1:2294:U:H2'	1.98	0.63
29:D1:2467:G:N2	29:D1:2488:A:H62	1.96	0.63
29:D1:2609:A:H2'	29:D1:2610:G:C8	2.34	0.63
29:D1:2947:G:N3	29:D1:2948:C:C5	2.66	0.63
29:D1:3004:C:O2'	29:D1:3005:A:H5'	1.98	0.63
29:D1:3314:A:OP2	34:DC:174:LYS:O	2.17	0.63
29:D1:3343:G:C8	29:D1:3344:A:N7	2.67	0.63
29:D1:3357:U:H2'	29:D1:3358:U:C5	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:64:A:O4'	30:D2:65:G:O5'	2.16	0.63
36:DE:35:ARG:HA	36:DE:38:THR:O	1.97	0.63
41:DJ:87:LEU:HA	41:DJ:138:VAL:CB	2.28	0.63
41:DJ:191:LYS:HA	41:DJ:192:ASP:CB	2.27	0.63
43:DN:81:VAL:O	43:DN:83:LYS:N	2.31	0.63
47:DR:45:ASN:O	47:DR:46:LYS:C	2.42	0.63
61:Df:39:GLY:O	61:Df:43:TYR:CB	2.46	0.63
62:Dg:81:SER:O	62:Dg:82:THR:C	2.41	0.63
1:A1:289:U:O2	1:A1:290:G:C8	2.52	0.63
1:A1:481:A:H2'	1:A1:482:U:C6	2.34	0.63
1:A1:523:G:H2'	1:A1:524:U:C4	2.34	0.63
1:A1:643:G:C2	1:A1:692:C:C2	2.86	0.63
1:A1:986:G:C4	1:A1:987:G:C8	2.87	0.63
1:A1:1214:U:H4'	1:A1:1245:G:H21	1.64	0.63
1:A1:1523:G:OP2	1:A1:1524:A:OP2	2.16	0.63
1:A1:1555:A:N3	1:A1:1555:A:H2'	2.13	0.63
1:A1:1603:U:H5"	1:A1:1604:U:OP2	1.98	0.63
6:AE:95:TYR:O	6:AE:98:ALA:HB3	1.99	0.63
9:AH:118:VAL:O	9:AH:119:THR:C	2.42	0.63
13:AL:76:PRO:HA	13:AL:81:ILE:H	1.64	0.63
29:B1:172:G:N2	29:B1:173:G:C5	2.67	0.63
29:B1:373:A:C2	29:B1:375:A:C5	2.87	0.63
29:B1:536:U:OP2	29:B1:536:U:C6	2.51	0.63
29:B1:716:A:H3'	29:B1:716:A:C8	2.34	0.63
29:B1:717:C:C5	29:B1:721:G:P	2.92	0.63
29:B1:722:G:N1	29:B1:748:U:C2	2.66	0.63
29:B1:757:C:O2	29:B1:757:C:C2'	2.45	0.63
29:B1:811:U:C2	29:B1:812:G:N7	2.67	0.63
29:B1:1302:A:C2	29:B1:2887:A:C4	2.86	0.63
29:B1:1352:A:P	29:B1:1352:A:C8	2.92	0.63
29:B1:1354:G:H2'	29:B1:1355:A:C5	2.34	0.63
29:B1:1799:A:C2	29:B1:1800:A:C2	2.87	0.63
29:B1:2246:G:C2	29:B1:2247:G:C8	2.86	0.63
29:B1:2614:G:C2	29:B1:2797:C:H6	2.17	0.63
29:B1:2667:A:N7	29:B1:2690:G:N2	2.46	0.63
29:B1:2677:G:N2	29:B1:2679:A:C4	2.67	0.63
29:B1:2847:A:N7	29:B1:2898:G:C6	2.66	0.63
29:B1:2897:A:H2	29:B1:2905:U:C2	2.15	0.63
29:B1:3021:A:C4	29:B1:3023:U:O4	2.51	0.63
29:B1:3231:U:H2'	29:B1:3232:G:C8	2.33	0.63
29:B1:3296:A:C2	29:B1:3297:U:N1	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:54:A:C6	31:B3:55:U:C2	2.87	0.63
36:BE:116:ASP:C	36:BE:118:THR:H	2.05	0.63
36:BE:226:TYR:CB	36:BE:233:ALA:H	2.10	0.63
39:BH:205:ALA:H	39:BH:206:GLU:C	2.07	0.63
41:BJ:87:LEU:HA	41:BJ:138:VAL:CB	2.29	0.63
45:BP:56:ASP:O	45:BP:60:LYS:N	2.29	0.63
62:Bg:42:CYS:O	74:Bg:101:OHX:N5	2.32	0.63
63:Bh:7:UNK:C	63:Bh:9:UNK:N	2.61	0.63
1:C1:13:C:C5'	3:CB:161:LYS:O	2.47	0.63
1:C1:131:C:H3'	1:C1:132:U:H4'	1.80	0.63
1:C1:166:C:H2'	1:C1:167:U:H5"	1.80	0.63
1:C1:183:U:C5	1:C1:184:C:C4	2.86	0.63
1:C1:209:U:C2	1:C1:210:A:C8	2.87	0.63
1:C1:974:A:H5'	29:D1:848:A:H1'	1.80	0.63
1:C1:1246:C:C4	1:C1:1247:U:C5	2.87	0.63
1:C1:1449:U:H2'	1:C1:1450:U:H6	1.64	0.63
1:C1:1533:C:H5"	1:C1:1534:G:OP2	1.98	0.63
1:C1:1654:G:H2'	1:C1:1745:G:H22	1.62	0.63
1:C1:1744:A:H2'	1:C1:1745:G:H5'	1.81	0.63
10:CI:33:PHE:C	10:CI:35:LYS:N	2.55	0.63
15:CN:25:THR:HA	15:CN:90:TYR:HA	1.79	0.63
21:CT:264:SER:O	21:CT:268:GLN:HA	1.99	0.63
29:D1:285:A:H2	29:D1:305:U:P	2.22	0.63
29:D1:531:G:C2'	29:D1:532:A:H8	2.06	0.63
29:D1:548:G:H2'	29:D1:549:U:H4'	1.80	0.63
29:D1:627:U:O3'	29:D1:1399:A:C8	2.52	0.63
29:D1:722:G:C2	29:D1:748:U:C2	2.86	0.63
29:D1:726:G:C6	29:D1:727:G:C6	2.85	0.63
29:D1:773:G:N3	29:D1:774:G:C8	2.66	0.63
29:D1:1099:A:C2'	29:D1:1100:U:H5'	2.29	0.63
29:D1:1110:U:H2'	29:D1:1111:U:C6	2.33	0.63
29:D1:1225:A:N3	29:D1:1225:A:H2'	2.14	0.63
29:D1:1328:C:H2'	29:D1:1329:U:C5	2.34	0.63
29:D1:2251:G:N2	29:D1:2252:A:C4	2.66	0.63
29:D1:2375:G:C8	29:D1:2378:C:N4	2.67	0.63
29:D1:2643:A:C5'	29:D1:2644:C:OP2	2.44	0.63
29:D1:2687:G:H5'	74:D1:3430:OHX:N2	2.13	0.63
29:D1:3218:A:O2'	29:D1:3218:A:N3	2.32	0.63
29:D1:3393:U:C4	29:D1:3394:U:C5	2.87	0.63
30:D2:106:U:O2	30:D2:107:C:C6	2.52	0.63
32:DA:54:LYS:HA	32:DA:55:LEU:CB	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DG:53:LYS:O	38:DG:54:GLU:C	2.40	0.63
40:DI:116:ASN:C	40:DI:120:ASP:H	2.06	0.63
44:DO:78:GLY:N	44:DO:79:ALA:HB2	2.14	0.63
45:DP:37:ARG:HA	45:DP:107:GLY:HA2	1.79	0.63
46:DQ:28:ASN:C	46:DQ:30:ARG:N	2.54	0.63
47:DR:21:SER:O	47:DR:22:ASP:CB	2.47	0.63
58:Dc:60:GLU:C	58:Dc:62:GLN:H	2.07	0.63
1:A1:849:C:C4	1:A1:850:A:N7	2.67	0.63
1:A1:1003:A:N7	1:A1:1005:A:C6	2.66	0.63
1:A1:1314:U:O2'	1:A1:1315:U:P	2.56	0.63
1:A1:1391:A:H2'	1:A1:1392:U:C6	2.33	0.63
1:A1:1525:A:C2	1:A1:1526:A:C4	2.87	0.63
1:A1:1558:U:C5	1:A1:1559:A:H2'	2.34	0.63
13:AL:124:GLY:C	13:AL:126:ARG:N	2.55	0.63
20:AS:21:CYS:O	20:AS:23:VAL:O	2.16	0.63
24:Ac:77:UNK:O	24:Ac:78:UNK:C	2.46	0.63
29:B1:88:A:C2	29:B1:281:G:N3	2.67	0.63
29:B1:173:G:H2'	29:B1:174:C:C6	2.33	0.63
29:B1:305:U:O2'	29:B1:306:A:C8	2.52	0.63
29:B1:407:A:N1	31:B3:17:A:H1'	2.13	0.63
29:B1:776:U:O5'	29:B1:777:U:OP2	2.16	0.63
29:B1:1194:G:O6	29:B1:1314:C:N3	2.32	0.63
29:B1:1405:U:H5'	57:Bb:58:GLY:CA	2.23	0.63
29:B1:1551:C:H2'	29:B1:1552:G:C8	2.34	0.63
29:B1:1845:G:H1	29:B1:1849:C:C2'	2.11	0.63
29:B1:1895:A:C6	29:B1:2341:A:C6	2.86	0.63
29:B1:2119:A:N7	29:B1:2120:A:N1	2.46	0.63
29:B1:2251:G:N2	29:B1:2252:A:C4	2.66	0.63
29:B1:2516:U:H2'	29:B1:2517:U:H6	1.62	0.63
29:B1:2864:A:C5	29:B1:2865:U:C5	2.86	0.63
29:B1:2892:A:H2'	29:B1:2893:C:C6	2.34	0.63
29:B1:3018:C:C4	29:B1:3019:U:C5	2.87	0.63
29:B1:3218:A:H4'	29:B1:3220:G:C8	2.34	0.63
30:B2:25:G:H2'	30:B2:26:C:C6	2.34	0.63
30:B2:94:C:H2'	30:B2:95:A:H8	1.63	0.63
30:B2:116:C:H2'	30:B2:117:A:H8	1.64	0.63
31:B3:65:A:C5	31:B3:66:A:C5	2.87	0.63
36:BE:125:VAL:HA	36:BE:169:GLY:HA3	1.81	0.63
36:BE:188:GLU:CB	36:BE:189:GLU:HA	2.29	0.63
39:BH:208:GLU:O	39:BH:209:ALA:C	2.42	0.63
41:BJ:97:LEU:O	41:BJ:123:HIS:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Bg:25:GLN:C	62:Bg:27:LYS:H	2.06	0.63
1:C1:100:A:OP2	1:C1:101:U:OP2	2.17	0.63
1:C1:339:C:H2'	1:C1:340:U:H6	1.62	0.63
1:C1:364:G:C8	1:C1:377:G:N2	2.67	0.63
1:C1:1365:C:C4	1:C1:1366:U:C5	2.87	0.63
1:C1:1499:G:H2'	1:C1:1500:C:H6	1.64	0.63
1:C1:1536:G:N2	1:C1:1538:U:H3	1.96	0.63
1:C1:1552:U:O2	1:C1:1552:U:C2'	2.46	0.63
1:C1:1602:C:H2'	1:C1:1602:C:O2	1.98	0.63
1:C1:1624:C:H2'	1:C1:1624:C:O2	1.98	0.63
2:CA:171:GLY:O	2:CA:173:ILE:N	2.32	0.63
8:CG:108:ASP:O	8:CG:111:ALA:HB3	1.98	0.63
11:CJ:40:GLU:C	11:CJ:42:GLU:N	2.53	0.63
16:CO:102:VAL:O	16:CO:104:LEU:N	2.32	0.63
17:CP:106:GLY:HA2	17:CP:122:PHE:HA	1.79	0.63
29:D1:21:G:O2'	31:D3:37:A:N6	2.32	0.63
29:D1:297:G:H4'	29:D1:299:G:H4'	1.80	0.63
29:D1:609:G:C5	29:D1:610:G:C6	2.87	0.63
29:D1:785:G:OP1	29:D1:785:G:O4'	2.16	0.63
29:D1:789:A:H2'	29:D1:790:U:C6	2.34	0.63
29:D1:847:A:C2	29:D1:848:A:C4	2.86	0.63
29:D1:1680:G:O2'	29:D1:1681:U:O5'	2.16	0.63
29:D1:2714:G:N2	29:D1:2751:G:C6	2.66	0.63
29:D1:2847:A:N7	29:D1:2898:G:C6	2.66	0.63
29:D1:2904:U:O2	29:D1:2904:U:C3'	2.46	0.63
29:D1:2997:G:C1'	29:D1:2998:U:P	2.82	0.63
29:D1:3202:G:H3'	29:D1:3202:G:P	2.38	0.63
29:D1:3212:C:C5	29:D1:3213:A:N1	2.66	0.63
29:D1:3325:G:H1	29:D1:3380:U:H3	1.46	0.63
29:D1:3387:U:C4	29:D1:3388:C:N4	2.66	0.63
30:D2:42:A:N3	30:D2:45:A:N6	2.47	0.63
30:D2:76:A:C4	30:D2:78:U:O4	2.52	0.63
31:D3:111:A:H5"	31:D3:111:A:H8	1.63	0.63
36:DE:194:LEU:O	36:DE:196:ARG:N	2.31	0.63
39:DH:85:ASN:O	39:DH:88:ALA:HB3	1.99	0.63
73:DM:36:GLN:C	73:DM:38:MET:N	2.56	0.63
53:DX:34:PRO:HA	53:DX:47:ALA:HB2	1.80	0.63
54:DY:134:ALA:O	54:DY:135:GLU:C	2.41	0.63
60:De:26:TRP:O	60:De:28:ARG:N	2.31	0.63
1:A1:22:A:C6	1:A1:604:A:N1	2.67	0.63
1:A1:610:G:C2	1:A1:614:C:N3	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:697:C:H3'	1:A1:698:U:H5"	1.79	0.63
1:A1:701:U:H3'	1:A1:702:G:C5'	2.29	0.63
1:A1:897:C:C2	1:A1:914:G:N2	2.67	0.63
1:A1:1506:G:O2'	1:A1:1507:G:H5'	1.99	0.63
1:A1:1558:U:C5	1:A1:1559:A:H5"	2.34	0.63
1:A1:1583:A:O2'	1:A1:1584:G:C5'	2.45	0.63
1:A1:1635:A:O5'	1:A1:1635:A:H8	1.82	0.63
3:AB:139:ILE:O	3:AB:141:ARG:N	2.32	0.63
25:Ad:108:UNK:O	25:Ad:112:UNK:N	2.32	0.63
29:B1:208:C:N3	29:B1:209:A:N7	2.47	0.63
29:B1:284:A:C2	29:B1:306:A:N9	2.67	0.63
29:B1:523:A:C2'	29:B1:524:U:H5'	2.27	0.63
29:B1:609:G:P	29:B1:609:G:C3'	2.86	0.63
29:B1:759:U:H2'	29:B1:760:G:H5"	1.80	0.63
29:B1:776:U:H5'	29:B1:777:U:C5'	2.21	0.63
29:B1:791:A:H5"	29:B1:792:G:OP2	1.99	0.63
29:B1:965:A:N1	29:B1:966:U:C2	2.67	0.63
29:B1:1157:G:N1	29:B1:1158:A:N3	2.47	0.63
29:B1:1210:U:C2'	29:B1:1211:U:H5'	2.28	0.63
29:B1:1257:C:C4	29:B1:1258:U:H1'	2.33	0.63
29:B1:1294:A:O2'	29:B1:1295:G:P	2.57	0.63
29:B1:1353:U:C5	29:B1:1355:A:N6	2.66	0.63
29:B1:1370:G:OP1	54:BY:17:ALA:O	2.16	0.63
29:B1:1508:C:O2'	29:B1:2353:G:H1'	1.98	0.63
29:B1:1697:A:N7	29:B1:1698:C:C5	2.67	0.63
29:B1:1902:G:P	29:B1:2918:G:H5'	2.39	0.63
29:B1:1902:G:C2	29:B1:1903:U:H1'	2.33	0.63
29:B1:1949:G:H2'	29:B1:1950:U:H6	1.63	0.63
29:B1:2101:C:C2'	29:B1:2102:U:H5'	2.29	0.63
29:B1:2254:U:O2	29:B1:2261:G:C2	2.50	0.63
29:B1:2289:U:C2	29:B1:2290:C:C5	2.86	0.63
29:B1:2308:C:H3'	29:B1:2309:A:H5"	1.79	0.63
29:B1:2776:C:H5'	29:B1:2777:G:C5'	2.27	0.63
29:B1:2881:C:C2	29:B1:2882:U:C5	2.87	0.63
29:B1:2918:G:N3	29:B1:2919:A:C8	2.67	0.63
29:B1:3046:A:C6	29:B1:3047:U:C4	2.86	0.63
29:B1:3209:A:C3'	29:B1:3210:A:C8	2.82	0.63
29:B1:3221:C:O2'	29:B1:3222:U:H5'	1.99	0.63
29:B1:3316:A:C6	29:B1:3388:C:N3	2.67	0.63
29:B1:3393:U:C4	29:B1:3394:U:C5	2.86	0.63
31:B3:65:A:C6	31:B3:66:A:C6	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:193:ASP:O	34:BC:196:ARG:N	2.31	0.63
35:BD:153:SER:C	35:BD:155:ASP:H	2.05	0.63
37:BF:144:ALA:C	37:BF:146:ILE:N	2.53	0.63
43:BN:22:LEU:CB	43:BN:65:LEU:CA	2.76	0.63
46:BQ:28:ASN:C	46:BQ:30:ARG:N	2.55	0.63
47:BR:98:LYS:CA	47:BR:117:ALA:HB1	2.25	0.63
1:C1:210:A:C4	1:C1:211:U:C5	2.87	0.63
1:C1:479:C:C3'	1:C1:480:G:C8	2.82	0.63
1:C1:727:U:C2	1:C1:728:U:H5	2.17	0.63
1:C1:901:G:OP1	1:C1:901:G:H4'	1.98	0.63
1:C1:1493:A:H2'	1:C1:1493:A:N3	2.13	0.63
1:C1:1677:C:H2'	1:C1:1677:C:O2	1.98	0.63
1:C1:1778:G:N1	1:C1:1779:U:C4	2.67	0.63
17:CP:46:SER:C	17:CP:48:HIS:H	2.06	0.63
17:CP:127:VAL:CB	17:CP:129:GLY:H	2.12	0.63
28:Ch:7:UNK:C	28:Ch:9:UNK:H2	2.11	0.63
29:D1:122:A:H1'	29:D1:150:A:H4'	1.80	0.63
29:D1:137:G:C8	29:D1:137:G:H3'	2.34	0.63
29:D1:157:A:N1	29:D1:266:A:C2	2.67	0.63
29:D1:910:G:C4	29:D1:911:C:C5	2.87	0.63
29:D1:1235:U:C5	29:D1:1237:G:H4'	2.33	0.63
29:D1:1342:C:H2'	29:D1:1343:A:C8	2.34	0.63
29:D1:1370:G:OP1	54:DY:17:ALA:O	2.17	0.63
29:D1:1495:U:O2'	29:D1:1514:G:H4'	1.98	0.63
29:D1:1730:G:C6	55:DZ:26:GLY:HA2	2.34	0.63
29:D1:2202:C:H2'	29:D1:2202:C:O2	1.99	0.63
29:D1:2383:C:C2'	29:D1:2384:A:H8	2.12	0.63
29:D1:2510:U:C2	29:D1:2511:A:C8	2.87	0.63
29:D1:2921:U:H3'	29:D1:2923:U:OP2	1.99	0.63
29:D1:2922:G:H1'	29:D1:2951:G:H21	1.61	0.63
29:D1:3201:C:C2'	29:D1:3202:G:H8	2.06	0.63
29:D1:3321:C:C2	29:D1:3322:A:N7	2.67	0.63
29:D1:3363:U:C5	29:D1:3364:C:H1'	2.34	0.63
30:D2:119:U:H5'	30:D2:120:C:OP2	1.98	0.63
31:D3:114:G:C2'	31:D3:115:C:H5'	2.29	0.63
34:DC:60:LEU:C	34:DC:62:ARG:H	2.06	0.63
36:DE:241:THR:C	36:DE:243:ALA:H	2.06	0.63
46:DQ:85:ALA:O	46:DQ:87:SER:N	2.32	0.63
59:Dd:36:SER:CB	74:Dd:101:OHX:N2	2.61	0.63
1:A1:396:G:H22	1:A1:399:A:H5"	1.63	0.63
1:A1:600:U:H2'	1:A1:601:A:C8	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:708:C:O2'	1:A1:709:C:H5'	1.99	0.63
1:A1:763:G:H2'	1:A1:764:U:H6	1.62	0.63
1:A1:938:G:N2	1:A1:942:G:C5	2.67	0.63
1:A1:1030:A:H4'	1:A1:1031:U:OP2	1.99	0.63
1:A1:1075:C:N4	1:A1:1076:A:N6	2.46	0.63
1:A1:1685:G:N2	1:A1:1686:C:C2	2.67	0.63
29:B1:278:U:C2	29:B1:279:U:C5	2.87	0.63
29:B1:377:A:C2'	29:B1:391:A:H61	2.12	0.63
29:B1:512:U:C1'	29:B1:579:G:N2	2.62	0.63
29:B1:692:A:C4	29:B1:693:A:C8	2.87	0.63
29:B1:739:G:H3'	29:B1:740:G:H8	1.64	0.63
29:B1:762:U:C5	74:B1:3479:OHX:N6	2.66	0.63
29:B1:872:U:O2'	29:B1:873:C:H5'	1.99	0.63
29:B1:993:G:H1'	29:B1:2637:A:H2'	1.81	0.63
29:B1:1001:G:C8	29:B1:1042:U:OP1	2.52	0.63
29:B1:1049:C:C2	29:B1:1050:U:C5	2.86	0.63
29:B1:1144:U:HO2'	29:B1:1145:G:P	2.22	0.63
29:B1:1337:A:C6	29:B1:1338:C:C4	2.86	0.63
29:B1:1439:U:C2	29:B1:1440:G:N7	2.67	0.63
29:B1:1627:U:OP1	29:B1:1627:U:H4'	1.98	0.63
29:B1:1654:A:C2	29:B1:1655:G:H1'	2.34	0.63
29:B1:1815:U:H2'	29:B1:1816:A:H5'	1.80	0.63
29:B1:1867:A:H2'	29:B1:1868:G:C8	2.34	0.63
29:B1:2143:A:N7	29:B1:2145:A:C5	2.67	0.63
29:B1:2151:C:H5'	29:B1:2151:C:C6	2.26	0.63
29:B1:2353:G:C4	29:B1:2354:C:C6	2.87	0.63
29:B1:2966:G:C2'	29:B1:2967:A:H5'	2.28	0.63
29:B1:3095:U:C2'	29:B1:3096:C:O5'	2.46	0.63
29:B1:3160:U:O4	29:B1:3290:G:O6	2.17	0.63
29:B1:3184:A:H5"	29:B1:3184:A:C8	2.25	0.63
30:B2:30:G:H2'	30:B2:31:U:O5'	1.98	0.63
31:B3:82:U:H2'	31:B3:83:C:O2	1.99	0.63
48:BS:130:ASN:C	48:BS:132:PHE:H	2.04	0.63
50:BU:45:ARG:O	50:BU:47:ASN:N	2.23	0.63
52:BW:76:VAL:O	52:BW:132:ALA:HB1	1.98	0.63
54:BY:29:PRO:O	54:BY:30:GLY:C	2.42	0.63
1:C1:518:A:N6	1:C1:535:A:H1'	2.13	0.63
1:C1:563:U:C4	1:C1:564:G:C6	2.87	0.63
1:C1:789:A:H3'	1:C1:790:U:H6	1.64	0.63
1:C1:871:G:O6	1:C1:957:G:C6	2.52	0.63
1:C1:1032:G:H2'	1:C1:1033:C:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1094:G:H2'	1:C1:1095:U:C5	2.34	0.63
1:C1:1149:G:C4'	1:C1:1150:G:OP1	2.47	0.63
1:C1:1189:A:H2'	1:C1:1189:A:N3	2.14	0.63
2:CA:84:ARG:C	2:CA:86:VAL:H	2.07	0.63
8:CG:129:TYR:C	8:CG:132:VAL:H	2.05	0.63
14:CM:67:MET:O	14:CM:69:LYS:C	2.42	0.63
19:CR:25:VAL:C	19:CR:38:ARG:HA	2.23	0.63
29:D1:5:G:H22	31:D3:155:A:H1'	1.61	0.63
29:D1:536:U:H6	29:D1:536:U:O5'	1.82	0.63
29:D1:573:C:O2'	29:D1:574:U:H5'	1.99	0.63
29:D1:607:A:C6	29:D1:608:A:C5	2.87	0.63
29:D1:656:A:H3'	29:D1:657:A:H8	1.63	0.63
29:D1:693:A:H2'	29:D1:694:C:H6	1.63	0.63
29:D1:758:C:H1'	29:D1:759:U:OP2	1.99	0.63
29:D1:760:G:HO2'	29:D1:761:A:H8	1.47	0.63
29:D1:1024:G:H2'	29:D1:1025:A:H5'	1.79	0.63
29:D1:1347:U:H4'	29:D1:1348:U:OP2	1.99	0.63
29:D1:1468:A:O2'	29:D1:1469:C:O5'	2.16	0.63
29:D1:1876:U:H2'	29:D1:1877:U:C5	2.34	0.63
29:D1:2119:A:N7	29:D1:2120:A:N1	2.47	0.63
29:D1:2233:A:C8	29:D1:2234:G:C8	2.87	0.63
29:D1:2549:G:H4'	29:D1:2550:U:OP1	1.96	0.63
29:D1:2592:G:C5	74:D1:3463:OHX:N1	2.67	0.63
29:D1:3093:C:H6	29:D1:3093:C:H5'	1.64	0.63
29:D1:3225:C:N4	29:D1:3261:C:N4	2.47	0.63
29:D1:3277:U:H3'	29:D1:3277:U:H6	1.63	0.63
29:D1:3376:A:H4'	29:D1:3376:A:OP2	1.99	0.63
31:D3:41:A:OP2	59:Dd:58:THR:C	2.42	0.63
31:D3:74:U:H3'	31:D3:76:C:H5"	1.80	0.63
31:D3:103:G:N1	31:D3:105:A:N6	2.46	0.63
37:DF:43:LEU:O	37:DF:45:GLY:N	2.32	0.63
41:DJ:12:GLN:O	41:DJ:14:ASN:N	2.32	0.63
58:Dc:41:LEU:N	58:Dc:42:PRO:CA	2.52	0.63
1:A1:114:C:C4	1:A1:248:U:C4	2.87	0.62
1:A1:150:U:H5'	1:A1:151:G:OP2	1.98	0.62
1:A1:289:U:O2	1:A1:290:G:H5"	1.99	0.62
1:A1:445:A:H1'	1:A1:524:U:H4'	1.81	0.62
1:A1:461:G:H2'	1:A1:462:G:C8	2.34	0.62
1:A1:521:A:C3'	1:A1:523:G:C8	2.82	0.62
1:A1:802:G:C5	1:A1:803:A:N1	2.67	0.62
1:A1:863:A:C8	1:A1:865:A:C8	2.86	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:955:A:H2'	1:A1:956:C:C6	2.33	0.62
1:A1:1168:U:C2'	1:A1:1169:G:H5'	2.29	0.62
1:A1:1368:G:H5"	1:A1:1369:U:OP2	1.99	0.62
1:A1:1694:A:H61	1:A1:1708:U:H2'	1.62	0.62
4:AC:21:LEU:O	4:AC:22:ASN:C	2.42	0.62
6:AE:143:ILE:O	6:AE:145:SER:N	2.28	0.62
15:AN:20:ILE:CB	15:AN:21:LYS:HA	2.28	0.62
17:AP:104:LEU:O	17:AP:105:ALA:CB	2.46	0.62
29:B1:10:C:C5	31:B3:149:A:H2	2.17	0.62
29:B1:22:G:O6	31:B3:35:C:N4	2.32	0.62
29:B1:199:A:C6	29:B1:219:A:N6	2.68	0.62
29:B1:395:A:OP1	29:B1:395:A:C8	2.53	0.62
29:B1:585:A:C5'	29:B1:586:C:OP2	2.46	0.62
29:B1:644:G:C4'	29:B1:1153:A:C2	2.66	0.62
29:B1:693:A:H5"	29:B1:694:C:OP2	1.99	0.62
29:B1:716:A:OP2	29:B1:716:A:N3	2.32	0.62
29:B1:771:A:H3'	29:B1:772:U:C5'	2.28	0.62
29:B1:847:A:C2'	29:B1:848:A:C8	2.78	0.62
29:B1:935:U:H2'	29:B1:936:A:C8	2.34	0.62
29:B1:1388:U:H2'	29:B1:1389:G:H8	1.63	0.62
29:B1:1898:G:O2'	50:BU:21:ALA:HB2	1.99	0.62
29:B1:2289:U:C2'	29:B1:2290:C:H5'	2.29	0.62
29:B1:2992:U:C2'	29:B1:2993:G:H5'	2.13	0.62
29:B1:3005:A:C4	29:B1:3140:G:C2	2.87	0.62
29:B1:3208:G:O2'	29:B1:3209:A:OP1	2.17	0.62
29:B1:3252:G:H2'	29:B1:3253:G:C8	2.34	0.62
29:B1:3327:G:C2	29:B1:3328:G:N7	2.67	0.62
29:B1:3328:G:N1	29:B1:3375:A:N7	2.46	0.62
29:B1:3388:C:H2'	29:B1:3389:U:C5	2.34	0.62
30:B2:7:G:H2'	30:B2:8:G:O4'	1.98	0.62
30:B2:46:A:O2'	30:B2:47:C:H5'	1.99	0.62
31:B3:125:U:N3	74:B3:206:OHX:N2	2.46	0.62
36:BE:94:ASN:O	36:BE:96:ALA:N	2.32	0.62
45:BP:95:GLY:O	45:BP:96:LYS:C	2.40	0.62
46:BQ:47:TYR:C	46:BQ:49:GLU:N	2.57	0.62
49:BT:77:ASN:HA	49:BT:87:LYS:O	1.99	0.62
54:BY:90:TYR:O	54:BY:92:LYS:HA	1.99	0.62
57:Bb:110:ALA:O	57:Bb:113:LYS:N	2.32	0.62
1:C1:129:U:C4	1:C1:264:G:C5	2.86	0.62
1:C1:162:A:C2'	1:C1:163:G:C8	2.81	0.62
1:C1:1145:U:C3'	1:C1:1146:G:H5"	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1172:G:C4	1:C1:1173:C:C5	2.86	0.62
1:C1:1314:U:O2'	1:C1:1315:U:P	2.57	0.62
1:C1:1331:A:H2'	1:C1:1332:C:O5'	1.99	0.62
1:C1:1453:G:H2'	1:C1:1454:G:C8	2.34	0.62
1:C1:1567:U:H2'	1:C1:1568:C:O4'	1.98	0.62
1:C1:1645:G:O2'	1:C1:1646:C:O5'	2.13	0.62
1:C1:1765:A:OP2	74:C1:1983:OHX:N4	2.32	0.62
1:C1:1777:G:C5	1:C1:1778:G:N7	2.67	0.62
6:CE:55:ALA:O	6:CE:56:ALA:C	2.41	0.62
8:CG:67:THR:O	8:CG:71:ILE:CB	2.46	0.62
15:CN:12:GLN:O	15:CN:14:GLN:N	2.32	0.62
29:D1:157:A:N1	29:D1:266:A:H2	1.97	0.62
29:D1:225:C:H2'	29:D1:226:C:C6	2.34	0.62
29:D1:258:G:O2'	29:D1:259:C:O5'	2.17	0.62
29:D1:308:A:C2	29:D1:2782:U:C2	2.83	0.62
29:D1:703:G:N1	29:D1:704:U:N3	2.47	0.62
29:D1:776:U:OP1	29:D1:777:U:OP2	2.16	0.62
29:D1:955:U:C2	29:D1:956:U:C5	2.86	0.62
29:D1:1080:A:C2	29:D1:1082:U:O5'	2.52	0.62
29:D1:1157:G:C6	29:D1:1158:A:C4	2.86	0.62
29:D1:1291:A:H2'	29:D1:1292:C:O5'	1.99	0.62
29:D1:1550:C:O2'	29:D1:1551:C:H5'	1.99	0.62
29:D1:1571:A:C6	29:D1:1572:U:H1'	2.35	0.62
29:D1:1671:C:H2'	29:D1:1671:C:O2	1.99	0.62
29:D1:2160:G:H2'	29:D1:2161:G:H8	1.64	0.62
29:D1:2207:A:H8	29:D1:2237:C:O2	1.81	0.62
29:D1:2254:U:O4	74:D1:3583:OHX:N5	2.32	0.62
29:D1:2576:G:H2'	29:D1:2577:C:H6	1.64	0.62
29:D1:2603:G:H3'	29:D1:2604:U:C6	2.33	0.62
29:D1:2699:G:H2'	29:D1:2700:G:C8	2.34	0.62
29:D1:2830:G:O2'	29:D1:2831:G:H5'	1.98	0.62
29:D1:3322:A:C5	29:D1:3386:G:N2	2.67	0.62
33:DB:172:GLY:N	62:Dg:68:ALA:HB2	2.13	0.62
35:DD:215:ILE:O	35:DD:216:VAL:C	2.42	0.62
26:Dj:16:UNK:O	26:Dj:17:UNK:C	2.47	0.62
1:A1:246:G:C6	1:A1:247:A:C2	2.87	0.62
1:A1:298:C:H3'	1:A1:298:C:C6	2.34	0.62
1:A1:330:G:H5"	1:A1:331:A:OP2	2.00	0.62
1:A1:617:U:O4'	1:A1:1031:U:O2	2.17	0.62
1:A1:702:G:N2	1:A1:703:G:C2	2.67	0.62
1:A1:915:A:OP2	1:A1:915:A:H8	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:964:U:H1'	1:A1:965:U:OP2	1.99	0.62
1:A1:1472:C:C5	1:A1:1474:G:C2	2.86	0.62
1:A1:1517:U:O2'	1:A1:1518:C:H5'	1.99	0.62
1:A1:1558:U:C6	1:A1:1558:U:H3'	2.34	0.62
1:A1:1609:U:H6	1:A1:1609:U:H5"	1.63	0.62
1:A1:1719:A:O3'	1:A1:1720:G:C8	2.52	0.62
6:AE:55:ALA:O	6:AE:56:ALA:C	2.42	0.62
10:AI:20:VAL:O	10:AI:24:LYS:C	2.42	0.62
29:B1:84:U:C5	29:B1:85:A:C4	2.88	0.62
29:B1:158:G:H2'	29:B1:159:A:H4'	1.81	0.62
29:B1:223:U:O2'	29:B1:224:C:OP1	2.14	0.62
29:B1:571:U:C2'	29:B1:572:A:H5'	2.29	0.62
29:B1:591:G:O2'	29:B1:592:A:C5'	2.47	0.62
29:B1:900:G:H1'	29:B1:1589:A:H61	1.63	0.62
29:B1:955:U:N3	29:B1:956:U:C4	2.67	0.62
29:B1:989:A:O2'	29:B1:990:U:H5'	1.98	0.62
29:B1:1199:C:O2	74:B1:3587:OHX:N3	2.32	0.62
29:B1:1315:U:O2	29:B1:1315:U:C2'	2.46	0.62
29:B1:1317:A:H8	29:B1:1317:A:H5'	1.64	0.62
29:B1:1329:U:O5'	29:B1:1329:U:H6	1.81	0.62
29:B1:1680:G:O2'	29:B1:1681:U:O5'	2.16	0.62
29:B1:1780:G:H2'	29:B1:1781:C:C5	2.34	0.62
29:B1:2414:G:C2'	29:B1:2415:C:O5'	2.47	0.62
29:B1:3067:C:O2'	29:B1:3068:U:H5'	1.99	0.62
29:B1:3148:U:H2'	29:B1:3149:G:C8	2.35	0.62
29:B1:3213:A:C8	29:B1:3213:A:H3'	2.34	0.62
29:B1:3370:A:H5'	29:B1:3371:G:OP1	1.99	0.62
31:B3:56:G:H2'	31:B3:57:C:H6	1.65	0.62
41:BJ:144:ASN:O	41:BJ:147:VAL:CB	2.47	0.62
50:BU:97:ASP:O	50:BU:98:ASN:CB	2.46	0.62
1:C1:22:A:C6	1:C1:604:A:N1	2.67	0.62
1:C1:44:U:OP2	1:C1:45:U:O4	2.17	0.62
1:C1:289:U:O2	1:C1:290:G:H8	1.82	0.62
1:C1:426:G:N1	1:C1:427:C:C4	2.67	0.62
1:C1:845:G:H2'	1:C1:846:G:H5"	1.81	0.62
1:C1:862:A:N9	1:C1:963:A:N6	2.47	0.62
1:C1:1179:G:C6	1:C1:1180:C:C2	2.87	0.62
1:C1:1348:A:C8	1:C1:1348:A:C3'	2.81	0.62
1:C1:1410:A:N6	1:C1:1411:A:C2	2.67	0.62
1:C1:1501:C:H2'	1:C1:1502:G:H5'	1.81	0.62
1:C1:1673:G:C5	1:C1:1674:C:C5	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1673:G:H2'	1:C1:1674:C:H5'	1.79	0.62
3:CB:208:GLU:O	3:CB:212:LYS:CB	2.47	0.62
5:CD:166:ARG:O	5:CD:167:ARG:C	2.42	0.62
20:CS:25:SER:O	20:CS:27:HIS:N	2.32	0.62
20:CS:49:ASP:H	20:CS:50:ILE:CB	2.12	0.62
29:D1:158:G:C5	29:D1:159:A:O2'	2.43	0.62
29:D1:301:G:O2'	29:D1:302:U:H5'	1.98	0.62
29:D1:340:C:O2'	29:D1:341:G:O4'	2.10	0.62
29:D1:515:C:C4	29:D1:516:A:C8	2.88	0.62
29:D1:563:U:C3'	29:D1:564:G:H4'	2.28	0.62
29:D1:576:C:H2'	29:D1:577:C:O5'	1.97	0.62
29:D1:977:C:C2	29:D1:978:G:N7	2.67	0.62
29:D1:1013:G:H2'	29:D1:1015:U:OP2	2.00	0.62
29:D1:1105:A:C6	29:D1:1106:G:C6	2.88	0.62
29:D1:1306:G:N9	45:DP:62:THR:CB	2.62	0.62
29:D1:1553:U:H1'	29:D1:1582:C:H5	1.64	0.62
29:D1:1856:C:H2'	29:D1:1857:C:H5'	1.81	0.62
29:D1:2167:A:H3'	29:D1:2168:A:H8	1.65	0.62
29:D1:2294:U:C6	29:D1:2297:U:H5	2.17	0.62
29:D1:2617:U:H4'	29:D1:2644:C:C5	2.33	0.62
29:D1:2836:C:H5	29:D1:2853:A:N1	1.98	0.62
29:D1:3097:C:H2'	29:D1:3098:G:H8	1.63	0.62
29:D1:3194:C:N4	29:D1:3196:U:OP1	2.32	0.62
30:D2:25:G:N2	30:D2:26:C:N3	2.47	0.62
31:D3:128:U:H5'	31:D3:129:C:OP2	1.99	0.62
36:DE:97:ALA:CA	36:DE:100:ALA:HB3	2.22	0.62
38:DG:85:PHE:HA	38:DG:115:THR:O	1.98	0.62
40:DI:155:SER:O	40:DI:158:ALA:HB3	1.99	0.62
42:DK:83:GLY:O	42:DK:84:LEU:C	2.40	0.62
74:DO:301:OHX:N1	61:Df:47:GLN:O	2.32	0.62
45:DP:99:LEU:O	45:DP:101:ARG:N	2.25	0.62
46:DQ:9:THR:H	46:DQ:10:ASN:CA	2.12	0.62
1:A1:4:C:H2'	1:A1:5:U:C6	2.34	0.62
1:A1:18:C:C2	1:A1:19:A:C8	2.88	0.62
1:A1:198:A:O2'	1:A1:199:G:O4'	2.16	0.62
1:A1:288:A:N3	1:A1:289:U:C5	2.63	0.62
1:A1:477:A:C4	1:A1:539:G:O6	2.52	0.62
1:A1:730:G:H2'	1:A1:730:G:N3	2.13	0.62
1:A1:981:U:H1'	1:A1:1124:A:C2	2.34	0.62
1:A1:1109:G:C2'	1:A1:1110:G:C5'	2.74	0.62
1:A1:1435:G:C4'	1:A1:1436:A:OP2	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1473:U:O4'	1:A1:1473:U:O2	2.17	0.62
17:AP:86:PHE:C	17:AP:88:PRO:N	2.53	0.62
20:AS:23:VAL:O	20:AS:24:CYS:O	2.17	0.62
20:AS:38:ILE:N	74:AS:101:OHX:N3	2.47	0.62
29:B1:32:U:C4	29:B1:33:G:C5	2.88	0.62
29:B1:37:U:OP1	29:B1:934:G:N2	2.31	0.62
29:B1:244:G:C6	29:B1:245:U:O2	2.51	0.62
29:B1:325:A:C3'	29:B1:327:A:OP1	2.44	0.62
29:B1:516:A:H3'	29:B1:517:G:N7	2.10	0.62
29:B1:524:U:O2'	29:B1:525:C:C5'	2.47	0.62
29:B1:557:A:C8	29:B1:557:A:C3'	2.82	0.62
29:B1:564:G:P	29:B1:565:U:OP1	2.58	0.62
29:B1:738:A:H2'	29:B1:738:A:N3	2.14	0.62
29:B1:962:A:O2'	29:B1:963:G:H5"	1.99	0.62
29:B1:1461:A:C5	29:B1:1462:A:N7	2.67	0.62
29:B1:1461:A:H2'	29:B1:1462:A:C8	2.34	0.62
29:B1:1911:A:O4'	29:B1:2333:C:O2'	2.16	0.62
29:B1:2100:A:H4'	29:B1:2101:C:OP1	1.99	0.62
29:B1:2251:G:C6	29:B1:2266:U:O2	2.52	0.62
29:B1:2262:A:N3	29:B1:2263:C:H5"	2.13	0.62
29:B1:2407:C:H1'	29:B1:2818:U:N3	2.14	0.62
29:B1:2592:G:H4'	29:B1:2594:C:N3	2.14	0.62
29:B1:2694:A:H2'	29:B1:2695:A:C1'	2.30	0.62
29:B1:3056:U:OP1	29:B1:3056:U:N3	2.32	0.62
29:B1:3232:G:O6	29:B1:3255:U:O4	2.17	0.62
29:B1:3294:A:H2'	29:B1:3295:A:H5'	1.81	0.62
29:B1:3322:A:C5	29:B1:3386:G:N2	2.68	0.62
29:B1:3331:U:C3'	29:B1:3332:U:H5'	2.29	0.62
74:B1:3537:OHX:N6	38:BG:217:PRO:O	2.33	0.62
31:B3:81:U:C3'	31:B3:82:U:H5"	2.27	0.62
42:BK:121:GLY:C	42:BK:123:PHE:H	2.07	0.62
46:BQ:16:SER:HA	46:BQ:149:VAL:HA	1.81	0.62
60:Be:7:PHE:O	60:Be:10:LYS:N	2.33	0.62
1:C1:107:C:O2'	1:C1:362:G:N3	2.32	0.62
1:C1:539:G:N2	1:C1:543:C:N3	2.46	0.62
1:C1:544:A:O2'	1:C1:545:A:P	2.58	0.62
1:C1:568:G:C2'	1:C1:569:C:H5'	2.29	0.62
1:C1:643:G:C2	1:C1:692:C:C2	2.86	0.62
1:C1:651:G:N7	74:C1:1970:OHX:N5	2.47	0.62
1:C1:1076:A:N7	1:C1:1077:C:C6	2.66	0.62
1:C1:1304:G:N7	1:C1:1305:U:C5	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1780:G:C6	1:C1:1781:A:C6	2.87	0.62
5:CD:93:LEU:O	5:CD:95:ASN:N	2.32	0.62
5:CD:161:ASP:CA	5:CD:162:VAL:CB	2.74	0.62
11:CJ:35:PRO:O	11:CJ:37:THR:N	2.32	0.62
14:CM:125:SER:O	14:CM:126:GLU:C	2.41	0.62
29:D1:28:C:O2'	29:D1:61:A:H1'	1.99	0.62
29:D1:84:U:C5	29:D1:85:A:C4	2.88	0.62
29:D1:156:G:H1'	29:D1:157:A:C4'	2.29	0.62
29:D1:336:A:O2'	29:D1:337:G:C5'	2.44	0.62
29:D1:504:A:C6	29:D1:505:G:C6	2.87	0.62
29:D1:600:G:C2	29:D1:604:G:C6	2.87	0.62
29:D1:637:C:C2	29:D1:2361:A:N3	2.67	0.62
29:D1:722:G:H22	29:D1:749:C:H6	1.47	0.62
29:D1:835:G:N3	29:D1:857:G:N2	2.47	0.62
29:D1:965:A:OP1	74:D1:3568:OHX:N1	2.32	0.62
29:D1:1661:G:H5"	29:D1:1661:G:H8	1.64	0.62
29:D1:2834:G:N3	29:D1:2835:U:C5	2.66	0.62
29:D1:2963:C:C2'	29:D1:2964:G:H5'	2.29	0.62
29:D1:3019:U:C4	29:D1:3020:U:C5	2.88	0.62
29:D1:3199:G:H3'	29:D1:3200:G:C8	2.31	0.62
29:D1:3207:U:C5	29:D1:3209:A:C2	2.87	0.62
29:D1:3221:C:C2	29:D1:3222:U:C5	2.88	0.62
29:D1:3333:G:N1	29:D1:3370:A:H4'	2.13	0.62
29:D1:3384:U:C4	29:D1:3385:U:O4	2.53	0.62
30:D2:63:A:O2'	30:D2:65:G:C8	2.52	0.62
31:D3:129:C:O5'	31:D3:129:C:H6	1.81	0.62
33:DB:145:LYS:O	33:DB:156:LYS:HA	1.99	0.62
37:DF:173:MET:O	37:DF:174:LEU:CB	2.46	0.62
46:DQ:30:ARG:O	46:DQ:31:GLU:C	2.42	0.62
51:DV:4:GLU:O	51:DV:5:ILE:CB	2.47	0.62
1:A1:285:G:C6	1:A1:286:C:C4	2.87	0.62
1:A1:930:A:H3'	1:A1:931:C:C6	2.34	0.62
1:A1:1330:G:C4	1:A1:1331:A:C8	2.86	0.62
1:A1:1353:U:O2	1:A1:1353:U:H2'	1.99	0.62
1:A1:1378:U:C4	11:AJ:19:VAL:CB	2.82	0.62
1:A1:1654:G:H2'	1:A1:1745:G:N2	2.14	0.62
1:A1:1746:A:H5"	1:A1:1747:G:OP2	1.99	0.62
29:B1:70:A:N3	29:B1:71:A:H4'	2.15	0.62
29:B1:186:U:O2	29:B1:186:U:H2'	1.97	0.62
29:B1:282:G:C2	29:B1:286:U:H4'	2.35	0.62
29:B1:392:G:C5	29:B1:393:U:H5	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:760:G:C2'	29:B1:761:A:H8	2.12	0.62
29:B1:773:G:N3	29:B1:774:G:C8	2.67	0.62
29:B1:974:G:C4	29:B1:975:C:C5	2.87	0.62
29:B1:1178:G:N7	29:B1:1179:A:C5	2.67	0.62
29:B1:1526:U:O4'	29:B1:1594:A:C2	2.52	0.62
29:B1:1748:G:H2'	29:B1:1749:A:H8	1.64	0.62
29:B1:2157:G:H4'	29:B1:2158:A:H5'	1.82	0.62
29:B1:2628:A:C6	29:B1:2629:U:C5	2.87	0.62
29:B1:2702:A:O4'	29:B1:2704:A:N7	2.32	0.62
29:B1:2839:G:C5	29:B1:2850:G:N2	2.67	0.62
29:B1:2857:C:H2'	29:B1:2858:U:H6	1.65	0.62
29:B1:2931:C:N3	29:B1:2932:U:C5	2.68	0.62
29:B1:3057:U:H5'	29:B1:3086:A:N6	2.14	0.62
29:B1:3120:C:OP2	74:B1:3434:OHX:N6	2.33	0.62
29:B1:3121:U:O4'	29:B1:3122:A:H5'	1.99	0.62
29:B1:3228:C:H2'	29:B1:3229:G:C8	2.35	0.62
29:B1:3315:G:C5'	29:B1:3319:U:H5'	2.28	0.62
31:B3:2:A:N6	31:B3:3:A:C2	2.67	0.62
31:B3:25:G:C6	31:B3:26:U:N3	2.67	0.62
36:BE:226:TYR:CB	36:BE:234:ASP:H	2.11	0.62
1:C1:97:C:H1'	1:C1:426:G:C5'	2.23	0.62
1:C1:238:U:H4'	1:C1:239:C:H5"	1.81	0.62
1:C1:542:A:HO2'	1:C1:543:C:H3'	1.64	0.62
1:C1:601:A:C5'	1:C1:602:U:OP2	2.47	0.62
1:C1:897:C:C2	1:C1:914:G:N2	2.67	0.62
1:C1:974:A:H5"	29:D1:848:A:O2'	1.99	0.62
1:C1:1254:U:O2'	1:C1:1255:G:P	2.58	0.62
1:C1:1721:A:O5'	1:C1:1722:A:O5'	2.16	0.62
3:CB:57:PHE:C	3:CB:59:HIS:N	2.53	0.62
3:CB:124:ALA:O	3:CB:125:ILE:C	2.42	0.62
8:CG:129:TYR:C	8:CG:131:THR:N	2.53	0.62
15:CN:12:GLN:O	15:CN:13:GLU:C	2.41	0.62
21:CT:301:LEU:O	21:CT:312:VAL:HA	2.00	0.62
29:D1:591:G:O2'	29:D1:592:A:C5'	2.47	0.62
29:D1:649:A:C2	29:D1:650:C:C5	2.87	0.62
29:D1:738:A:H2'	29:D1:738:A:N3	2.13	0.62
29:D1:1214:U:C2'	29:D1:1215:U:H5'	2.28	0.62
29:D1:1256:G:N2	29:D1:1257:C:H1'	2.14	0.62
29:D1:1369:A:H2'	29:D1:1370:G:O4'	1.99	0.62
29:D1:1455:U:N3	29:D1:3077:A:OP1	2.29	0.62
29:D1:1539:A:C5	29:D1:1540:U:H5	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1795:U:O2'	29:D1:1796:G:P	2.56	0.62
29:D1:2137:U:H2'	29:D1:2137:U:O2	2.00	0.62
29:D1:2181:C:C2	29:D1:2182:A:C8	2.88	0.62
29:D1:2284:C:C2	29:D1:2308:C:O4'	2.51	0.62
29:D1:2325:G:C2	29:D1:2326:A:C8	2.87	0.62
29:D1:2743:A:C3'	29:D1:2744:U:H6	2.11	0.62
29:D1:2966:G:C6	29:D1:2967:A:N6	2.68	0.62
29:D1:3149:G:N3	29:D1:3150:A:C1'	2.61	0.62
29:D1:3237:U:H2'	29:D1:3238:G:H8	1.65	0.62
29:D1:3244:A:C8	29:D1:3245:A:C8	2.87	0.62
29:D1:3280:U:O2'	29:D1:3281:U:P	2.57	0.62
29:D1:3381:U:H2'	29:D1:3383:G:N9	2.14	0.62
30:D2:70:U:O2'	30:D2:71:G:H5'	2.00	0.62
31:D3:67:U:C3'	31:D3:68:G:C8	2.81	0.62
31:D3:102:U:C4	31:D3:103:G:C6	2.86	0.62
31:D3:103:G:C6	31:D3:105:A:C6	2.88	0.62
35:DD:9:HIS:O	35:DD:17:ALA:HB3	1.99	0.62
37:DF:124:GLU:C	37:DF:126:GLN:H	2.07	0.62
39:DH:248:LYS:O	39:DH:250:ALA:N	2.32	0.62
43:DN:107:GLU:O	43:DN:108:ARG:C	2.42	0.62
46:DQ:11:PRO:O	46:DQ:12:ALA:HB2	1.99	0.62
48:DS:23:TRP:N	48:DS:51:VAL:O	2.33	0.62
1:A1:106:U:H3'	1:A1:107:C:H6	1.64	0.62
1:A1:313:U:C5	1:A1:1118:G:N1	2.67	0.62
1:A1:396:G:H2'	1:A1:397:A:O5'	1.99	0.62
1:A1:442:C:O2'	1:A1:443:C:H5'	1.98	0.62
1:A1:623:A:H2	1:A1:1105:C:HO2'	1.45	0.62
1:A1:714:G:C2	1:A1:715:U:H1'	2.34	0.62
1:A1:879:G:C2'	1:A1:880:C:H5'	2.29	0.62
1:A1:885:G:H2'	1:A1:886:U:C6	2.35	0.62
1:A1:1068:C:H2'	1:A1:1069:A:C8	2.34	0.62
1:A1:1216:C:H4'	1:A1:1217:A:H5'	1.82	0.62
1:A1:1326:A:O2'	1:A1:1327:C:H5'	1.99	0.62
1:A1:1555:A:H5"	1:A1:1556:A:OP2	1.99	0.62
1:A1:1586:A:OP1	11:AJ:134:ALA:HB3	1.99	0.62
1:A1:1650:U:H5"	1:A1:1651:A:OP2	1.99	0.62
1:A1:1759:C:H2'	1:A1:1760:G:C8	2.34	0.62
4:AC:16:VAL:O	4:AC:18:TYR:N	2.33	0.62
29:B1:34:A:OP1	29:B1:34:A:H4'	1.99	0.62
29:B1:35:A:C2	29:B1:36:C:C6	2.87	0.62
29:B1:80:G:N1	29:B1:81:C:C4	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:256:G:N3	29:B1:256:G:H2'	2.15	0.62
29:B1:312:C:H2'	29:B1:313:A:C8	2.33	0.62
29:B1:508:U:H2'	29:B1:508:U:O2	1.98	0.62
29:B1:592:A:O3'	29:B1:593:C:H4'	1.96	0.62
29:B1:749:C:H2'	29:B1:750:G:C8	2.33	0.62
29:B1:863:C:H2'	29:B1:864:G:H5'	1.81	0.62
29:B1:945:C:H2'	29:B1:946:U:C6	2.34	0.62
29:B1:991:G:N2	29:B1:992:A:H1'	2.14	0.62
29:B1:1076:C:H5'	29:B1:1077:U:OP2	1.98	0.62
29:B1:1313:G:C5	29:B1:1314:C:C5	2.88	0.62
29:B1:1494:U:O2'	29:B1:1496:C:N4	2.33	0.62
29:B1:2294:U:C5'	29:B1:2295:A:OP2	2.47	0.62
29:B1:2376:G:O2'	29:B1:2377:G:O5'	2.17	0.62
29:B1:2388:U:O2'	29:B1:2389:C:H5'	1.99	0.62
29:B1:2549:G:H4'	29:B1:2550:U:OP1	1.98	0.62
29:B1:2628:A:C1'	29:B1:2798:C:C4	2.80	0.62
29:B1:2851:A:H3'	29:B1:2852:C:H5"	1.82	0.62
29:B1:2980:U:C2'	29:B1:2981:U:H5'	2.29	0.62
29:B1:3063:C:C2	29:B1:3064:U:C5	2.87	0.62
29:B1:3121:U:O2	29:B1:3122:A:N7	2.32	0.62
29:B1:3141:A:H5'	29:B1:3143:C:C2'	2.29	0.62
29:B1:3377:G:H2'	74:B1:3450:OHX:N6	2.15	0.62
31:B3:156:U:H2'	31:B3:157:U:C5	2.35	0.62
37:BF:91:VAL:O	37:BF:92:SER:O	2.16	0.62
49:BT:69:LYS:O	49:BT:71:SER:N	2.32	0.62
59:Bd:43:LYS:C	59:Bd:45:ARG:H	2.07	0.62
60:Be:10:LYS:O	60:Be:11:GLN:C	2.42	0.62
22:Bo:15:UNK:C	22:Bo:17:UNK:N	2.62	0.62
1:C1:61:A:C5'	1:C1:62:A:H5'	2.30	0.62
1:C1:365:G:C2	1:C1:366:A:C8	2.88	0.62
1:C1:553:G:C6	1:C1:554:C:N3	2.67	0.62
1:C1:750:U:O5'	1:C1:750:U:H6	1.83	0.62
1:C1:940:A:N3	1:C1:941:A:C8	2.67	0.62
1:C1:1174:C:H4'	1:C1:1601:G:C6	2.34	0.62
1:C1:1199:G:C5	1:C1:1200:G:C1'	2.83	0.62
1:C1:1200:G:H5"	1:C1:1200:G:H8	1.64	0.62
1:C1:1204:A:H2'	1:C1:1204:A:N3	2.14	0.62
1:C1:1273:G:C5'	1:C1:1274:C:H5'	2.28	0.62
1:C1:1345:A:C8	1:C1:1346:A:N7	2.68	0.62
1:C1:1377:U:C6	1:C1:1377:U:O5'	2.52	0.62
1:C1:1458:G:H3'	1:C1:1459:C:C6	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1571:C:H3'	1:C1:1572:G:H5"	1.80	0.62
1:C1:1671:A:C8	1:C1:1731:A:C6	2.87	0.62
2:CA:88:LYS:C	2:CA:90:ALA:H	2.08	0.62
3:CB:139:ILE:O	3:CB:141:ARG:N	2.32	0.62
21:CT:267:PRO:C	21:CT:269:TYR:H	2.06	0.62
28:Ch:62:UNK:O	28:Ch:64:UNK:N	2.32	0.62
29:D1:44:U:C5	29:D1:45:A:C4	2.87	0.62
29:D1:80:G:C6	29:D1:106:A:C6	2.88	0.62
29:D1:211:A:H5'	29:D1:229:G:O2'	1.99	0.62
29:D1:246:U:H3'	29:D1:247:C:H5"	1.80	0.62
29:D1:569:A:C6	29:D1:570:A:C8	2.87	0.62
29:D1:762:U:OP1	29:D1:762:U:H4'	1.99	0.62
29:D1:773:G:O2'	29:D1:774:G:C5'	2.48	0.62
29:D1:898:U:C4	29:D1:899:U:C4	2.87	0.62
29:D1:1102:A:O3'	29:D1:1103:A:H4'	1.98	0.62
29:D1:1174:G:N3	29:D1:1175:C:C6	2.68	0.62
29:D1:1236:G:C2	29:D1:1245:A:C5	2.87	0.62
29:D1:1358:C:C2	29:D1:1359:C:C5	2.87	0.62
29:D1:1449:A:H2'	29:D1:1450:G:O4'	1.99	0.62
29:D1:1468:A:C2	29:D1:1469:C:C4	2.87	0.62
29:D1:1633:C:C4	29:D1:1634:G:N7	2.67	0.62
29:D1:1795:U:C4	62:Dg:51:ALA:HB2	2.34	0.62
29:D1:2222:A:O2'	29:D1:2223:A:H8	1.82	0.62
29:D1:2805:G:O2'	29:D1:2806:U:H5'	1.99	0.62
29:D1:3030:G:O2'	29:D1:3031:G:O4'	2.16	0.62
29:D1:3128:G:H5"	29:D1:3129:A:OP2	2.00	0.62
29:D1:3308:C:H3'	29:D1:3308:C:C6	2.34	0.62
30:D2:2:G:H2'	30:D2:3:U:H6	1.63	0.62
30:D2:88:G:H2'	30:D2:89:G:H8	1.64	0.62
30:D2:115:G:H2'	30:D2:115:G:N3	2.13	0.62
39:DH:194:THR:CB	39:DH:195:SER:CA	2.68	0.62
43:DN:111:ALA:O	43:DN:112:LEU:C	2.42	0.62
44:DO:20:ARG:C	44:DO:22:LEU:H	2.06	0.62
46:DQ:98:ALA:O	46:DQ:101:ASN:N	2.32	0.62
54:DY:110:GLY:O	54:DY:128:ARG:CB	2.47	0.62
1:A1:239:C:H1'	1:A1:240:U:C6	2.35	0.62
1:A1:940:A:N3	1:A1:941:A:C8	2.67	0.62
1:A1:1089:U:H2'	1:A1:1090:C:H5'	1.81	0.62
1:A1:1196:A:O2'	1:A1:1197:C:OP2	2.14	0.62
1:A1:1284:C:O2	1:A1:1286:U:C4	2.53	0.62
1:A1:1483:A:H1'	1:A1:1524:A:N6	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:112:ASP:C	13:AL:114:GLU:H	2.07	0.62
20:AS:37:ASN:O	74:AS:101:OHX:N5	2.32	0.62
21:AT:267:PRO:C	21:AT:269:TYR:H	2.07	0.62
28:Ah:54:UNK:O	28:Ah:58:UNK:CB	2.48	0.62
29:B1:608:A:C2'	29:B1:609:G:O5'	2.48	0.62
29:B1:688:G:H1'	29:B1:692:A:N6	2.14	0.62
29:B1:705:A:C4'	29:B1:706:A:H5'	2.28	0.62
29:B1:707:U:H5"	29:B1:782:U:C2'	2.29	0.62
29:B1:790:U:O5'	29:B1:790:U:H6	1.83	0.62
29:B1:835:G:C4	29:B1:857:G:N2	2.68	0.62
29:B1:1292:C:O2'	29:B1:1293:U:H5'	2.00	0.62
29:B1:1455:U:C3'	29:B1:1456:A:H8	2.12	0.62
29:B1:1501:U:O2'	29:B1:1502:C:H5'	1.99	0.62
29:B1:2383:C:C4	29:B1:2384:A:C5	2.88	0.62
29:B1:2414:G:H2'	29:B1:2415:C:O5'	2.00	0.62
29:B1:2554:A:C2	33:BB:86:GLN:HA	2.34	0.62
29:B1:2580:A:C1'	29:B1:2581:U:P	2.88	0.62
29:B1:2681:U:O2'	29:B1:2682:C:H5"	1.99	0.62
29:B1:3064:U:C2	29:B1:3065:G:C8	2.87	0.62
29:B1:3149:G:H2'	29:B1:3150:A:O4'	1.99	0.62
29:B1:3150:A:C5'	34:BC:134:SER:HA	2.26	0.62
29:B1:3262:U:O2	29:B1:3263:G:C8	2.53	0.62
29:B1:3341:U:C4	29:B1:3362:A:C2	2.87	0.62
29:B1:3392:U:C2	29:B1:3393:U:C5	2.88	0.62
30:B2:27:A:C2	30:B2:28:C:C2	2.87	0.62
30:B2:86:U:H4'	30:B2:87:G:O5'	2.00	0.62
31:B3:69:U:H2'	31:B3:70:G:C2'	2.29	0.62
33:BB:182:ALA:C	33:BB:184:ARG:N	2.57	0.62
35:BD:7:THR:O	35:BD:9:HIS:N	2.33	0.62
36:BE:194:LEU:O	36:BE:195:LEU:C	2.41	0.62
39:BH:237:ILE:O	39:BH:238:LEU:C	2.43	0.62
40:BI:7:GLU:HA	40:BI:56:ALA:HA	1.80	0.62
43:BN:21:VAL:O	43:BN:34:ALA:HB2	2.00	0.62
47:BR:43:PRO:C	47:BR:45:ASN:N	2.57	0.62
48:BS:25:ASP:C	48:BS:27:ASN:H	2.06	0.62
54:BY:42:ARG:O	54:BY:43:ILE:C	2.43	0.62
62:Bg:81:SER:O	62:Bg:82:THR:C	2.43	0.62
63:Bh:45:UNK:O	63:Bh:49:UNK:CA	2.47	0.62
1:C1:174:U:O2	1:C1:174:U:C2'	2.46	0.62
1:C1:214:G:C2'	1:C1:215:A:H5'	2.30	0.62
1:C1:243:G:C6	1:C1:251:A:N1	2.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:340:U:H3'	1:C1:341:A:C8	2.25	0.62
1:C1:389:G:C5	1:C1:390:G:C5	2.87	0.62
1:C1:510:G:H5"	1:C1:511:A:O5'	2.00	0.62
1:C1:1114:G:O2'	1:C1:1115:U:OP2	2.17	0.62
1:C1:1305:U:H3'	1:C1:1306:C:C2	2.33	0.62
1:C1:1385:G:C4	1:C1:1386:G:C8	2.87	0.62
1:C1:1480:G:H2'	1:C1:1481:C:H5"	1.80	0.62
1:C1:1584:G:C8	11:CJ:123:ARG:O	2.53	0.62
1:C1:1597:A:C6	1:C1:1598:U:N3	2.67	0.62
3:CB:142:GLY:O	3:CB:149:GLY:O	2.17	0.62
10:CI:86:VAL:CB	10:CI:87:PRO:HA	2.30	0.62
16:CO:62:VAL:O	16:CO:63:VAL:CB	2.47	0.62
29:D1:618:C:C2	29:D1:619:A:C8	2.88	0.62
29:D1:676:G:H5'	29:D1:679:U:OP1	1.98	0.62
29:D1:744:A:C2	29:D1:745:C:C2	2.88	0.62
29:D1:1127:G:N2	29:D1:1132:C:C4	2.68	0.62
29:D1:1135:A:C2'	29:D1:1136:A:H5'	2.30	0.62
29:D1:1303:A:N1	29:D1:2887:A:C5	2.67	0.62
29:D1:1354:G:H2'	29:D1:1355:A:C5	2.34	0.62
29:D1:1454:A:C5'	29:D1:1878:G:N1	2.62	0.62
29:D1:1511:U:H5'	29:D1:1512:U:H5	1.63	0.62
29:D1:1780:G:H2'	29:D1:1781:C:C5	2.35	0.62
29:D1:1946:A:H5"	29:D1:1947:G:OP2	1.99	0.62
29:D1:2376:G:N1	29:D1:2377:G:C6	2.66	0.62
29:D1:2851:A:H3'	29:D1:2852:C:H5"	1.82	0.62
29:D1:2919:A:C3'	29:D1:2920:U:H5'	2.30	0.62
29:D1:2931:C:O2'	29:D1:2932:U:H5'	2.00	0.62
29:D1:2934:A:H5"	29:D1:2935:U:OP2	1.98	0.62
29:D1:3160:U:H2'	29:D1:3161:C:H6	1.65	0.62
29:D1:3316:A:C6	29:D1:3388:C:N3	2.68	0.62
29:D1:3328:G:C2	29:D1:3375:A:N7	2.68	0.62
30:D2:27:A:H1'	30:D2:57:G:N2	2.14	0.62
36:DE:116:ASP:C	36:DE:118:THR:H	2.06	0.62
37:DF:159:LEU:O	37:DF:162:SER:N	2.33	0.62
45:DP:169:ALA:O	45:DP:172:ARG:N	2.32	0.62
1:A1:11:A:H8	1:A1:11:A:O5'	1.83	0.62
1:A1:20:G:H2'	1:A1:21:U:H5'	1.80	0.62
1:A1:120:U:O4	1:A1:297:U:O4	2.18	0.62
1:A1:131:C:H3'	1:A1:132:U:H4'	1.80	0.62
1:A1:365:G:C6	1:A1:377:G:O6	2.53	0.62
1:A1:390:G:N2	1:A1:407:A:H61	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:702:G:OP1	1:A1:702:G:H4'	1.99	0.62
1:A1:718:U:H5	1:A1:722:G:C6	2.17	0.62
1:A1:1066:C:C4	1:A1:1067:C:C5	2.88	0.62
1:A1:1072:C:H5"	1:A1:1073:G:OP2	1.99	0.62
1:A1:1149:G:C2	1:A1:1150:G:N7	2.67	0.62
1:A1:1297:G:H2'	1:A1:1299:G:N7	2.15	0.62
1:A1:1338:C:H1'	1:A1:1410:A:N3	2.15	0.62
1:A1:1591:C:H4'	1:A1:1592:A:OP1	1.99	0.62
2:AA:80:THR:C	2:AA:82:GLY:H	2.08	0.62
9:AH:78:ALA:HA	9:AH:110:LEU:HA	1.82	0.62
10:AI:73:PRO:O	10:AI:74:ALA:HB2	1.99	0.62
23:Ab:79:UNK:O	23:Ab:81:UNK:N	2.33	0.62
29:B1:7:C:O2	29:B1:7:C:C3'	2.45	0.62
29:B1:225:C:H2'	29:B1:226:C:C6	2.35	0.62
29:B1:285:A:H2	29:B1:305:U:P	2.22	0.62
29:B1:315:C:H2'	29:B1:316:U:H6	1.64	0.62
29:B1:342:A:C2	29:B1:349:A:H8	2.15	0.62
29:B1:591:G:C2	29:B1:592:A:C8	2.88	0.62
29:B1:682:U:C5	29:B1:683:U:C5	2.88	0.62
29:B1:719:U:OP1	47:BR:69:ARG:CB	2.48	0.62
29:B1:858:A:H5"	29:B1:858:A:C8	2.35	0.62
29:B1:917:A:C6	29:B1:918:C:C4	2.88	0.62
29:B1:954:U:H4'	29:B1:954:U:OP1	1.99	0.62
29:B1:957:C:O3'	29:B1:2799:A:C8	2.52	0.62
29:B1:966:U:C2'	29:B1:967:A:C8	2.76	0.62
29:B1:1281:G:C5	29:B1:1282:G:C8	2.87	0.62
29:B1:1495:U:H3'	29:B1:1496:C:C5'	2.29	0.62
29:B1:1914:G:H3'	29:B1:1915:A:C8	2.32	0.62
29:B1:2185:G:C5	29:B1:2186:U:C5	2.87	0.62
29:B1:2209:U:C6	29:B1:2209:U:OP2	2.52	0.62
29:B1:2232:A:H1'	29:B1:2429:G:H5'	1.81	0.62
29:B1:2476:C:H2'	29:B1:2477:G:C4'	2.28	0.62
29:B1:2562:A:H2'	29:B1:2563:G:H8	1.65	0.62
29:B1:2568:C:O2'	29:B1:2569:A:H4'	1.99	0.62
29:B1:2678:A:H5"	29:B1:2679:A:C2	2.35	0.62
29:B1:2933:A:C6	29:B1:2934:A:C2	2.88	0.62
29:B1:3037:U:C2	29:B1:3038:U:C5	2.88	0.62
29:B1:3094:A:H2'	29:B1:3095:U:H6	1.65	0.62
29:B1:3135:U:H3'	29:B1:3136:G:H8	1.63	0.62
29:B1:3381:U:C4	29:B1:3383:G:O6	2.52	0.62
29:B1:3390:G:C4	29:B1:3391:A:C8	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:41:A:H2'	31:B3:41:A:N3	2.15	0.62
31:B3:49:G:C5	31:B3:50:C:C5	2.87	0.62
31:B3:75:G:OP1	31:B3:90:U:H5"	1.99	0.62
36:BE:12:TYR:O	36:BE:13:SER:CB	2.47	0.62
49:BT:8:ARG:O	49:BT:11:THR:CB	2.47	0.62
1:C1:353:A:N7	1:C1:354:C:C5	2.68	0.62
1:C1:401:A:O3'	1:C1:402:C:H4'	1.99	0.62
1:C1:733:A:H5"	1:C1:734:A:C8	2.35	0.62
1:C1:989:U:C4	1:C1:990:C:N4	2.67	0.62
1:C1:1002:G:C2	1:C1:1003:A:N1	2.68	0.62
1:C1:1482:C:O2'	1:C1:1483:A:O5'	2.17	0.62
1:C1:1632:C:O2'	1:C1:1633:A:OP1	2.18	0.62
1:C1:1725:U:O5'	1:C1:1725:U:H6	1.82	0.62
1:C1:1756:A:OP2	1:C1:1756:A:N7	2.32	0.62
5:CD:196:GLU:HA	5:CD:199:ILE:CB	2.30	0.62
11:CJ:46:PHE:O	11:CJ:48:VAL:N	2.31	0.62
29:D1:116:A:N1	29:D1:265:A:OP2	2.31	0.62
29:D1:213:A:C6	29:D1:214:G:C4	2.88	0.62
29:D1:352:A:C4	29:D1:354:U:C5	2.87	0.62
29:D1:577:C:C6	29:D1:577:C:H5'	2.34	0.62
29:D1:584:G:N3	29:D1:585:A:C8	2.67	0.62
29:D1:747:A:H2'	29:D1:748:U:OP1	1.99	0.62
29:D1:886:C:O2'	29:D1:887:G:H5'	2.00	0.62
29:D1:891:G:H2'	29:D1:892:U:O5'	2.00	0.62
29:D1:1151:U:H5"	29:D1:1152:G:OP2	1.99	0.62
29:D1:1177:G:H8	29:D1:1177:G:O5'	1.82	0.62
29:D1:2179:C:C2	33:DB:129:ALA:O	2.52	0.62
29:D1:2258:U:H3'	29:D1:2259:A:H8	1.64	0.62
29:D1:2785:A:C5	29:D1:2786:G:C8	2.87	0.62
29:D1:3006:A:H8	29:D1:3007:U:C6	2.17	0.62
29:D1:3045:G:H3'	29:D1:3045:G:C8	2.34	0.62
31:D3:29:U:C2	31:D3:30:C:C5	2.87	0.62
38:DG:222:HIS:CB	38:DG:226:GLY:O	2.47	0.62
41:DJ:17:TYR:C	41:DJ:19:LYS:H	2.08	0.62
42:DK:84:LEU:O	42:DK:89:TYR:N	2.29	0.62
73:DM:36:GLN:C	73:DM:38:MET:H	2.07	0.62
61:Df:14:GLY:N	61:Df:15:LYS:HA	2.13	0.62
1:A1:143:G:N3	1:A1:144:U:H1'	2.15	0.62
1:A1:202:A:C6	1:A1:203:U:O4	2.52	0.62
1:A1:332:U:C5'	1:A1:333:A:OP2	2.47	0.62
1:A1:518:A:C2'	1:A1:519:C:H5"	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:607:G:C6	1:A1:613:G:H5'	2.35	0.62
1:A1:777:C:H5'	1:A1:778:G:OP2	2.00	0.62
1:A1:1165:G:H5"	1:A1:1166:A:OP2	1.99	0.62
1:A1:1363:U:H2'	1:A1:1364:G:N9	2.15	0.62
1:A1:1753:A:H2'	1:A1:1753:A:N3	2.14	0.62
2:AA:52:LYS:C	2:AA:54:TRP:H	2.07	0.62
2:AA:54:TRP:O	2:AA:55:GLU:C	2.42	0.62
3:AB:215:PHE:HA	3:AB:218:ILE:CB	2.30	0.62
4:AC:140:GLY:CA	4:AC:182:LEU:HA	2.29	0.62
24:Ac:4:UNK:HA	24:Ac:98:UNK:CA	2.29	0.62
29:B1:60:A:H2'	29:B1:61:A:H5'	1.81	0.62
29:B1:210:U:C6	29:B1:210:U:P	2.92	0.62
29:B1:372:A:N7	29:B1:395:A:N7	2.47	0.62
29:B1:502:U:O2'	29:B1:503:C:H5'	2.00	0.62
29:B1:563:U:H3'	29:B1:564:G:C4'	2.29	0.62
29:B1:607:A:N1	29:B1:608:A:C4	2.68	0.62
29:B1:722:G:H22	29:B1:749:C:H6	1.48	0.62
29:B1:789:A:H2'	29:B1:790:U:C6	2.35	0.62
29:B1:940:G:OP1	29:B1:2871:G:O6	2.18	0.62
29:B1:1141:C:C2	29:B1:1142:G:C8	2.88	0.62
29:B1:1247:U:H5"	29:B1:1248:C:OP1	2.00	0.62
29:B1:1453:A:N9	29:B1:1850:A:C2	2.65	0.62
29:B1:1546:A:N7	29:B1:1547:G:C5	2.68	0.62
29:B1:2120:A:HO2'	29:B1:2121:G:P	2.21	0.62
29:B1:2188:A:H2	62:Bg:19:GLY:HA2	1.65	0.62
29:B1:2247:G:H5"	74:B1:3404:OHX:N3	2.15	0.62
29:B1:2576:G:H2'	29:B1:2577:C:H6	1.65	0.62
29:B1:2599:U:H2'	29:B1:2600:C:C6	2.35	0.62
29:B1:2945:G:N3	29:B1:2945:G:C5'	2.63	0.62
29:B1:2960:C:H3'	29:B1:2961:G:H8	1.65	0.62
29:B1:3070:A:C5	29:B1:3071:U:C5	2.88	0.62
29:B1:3225:C:H2'	29:B1:3226:A:C8	2.34	0.62
30:B2:9:C:N4	30:B2:10:C:O2	2.33	0.62
33:BB:209:HIS:O	33:BB:210:PRO:C	2.40	0.62
34:BC:323:MET:O	34:BC:324:VAL:O	2.18	0.62
36:BE:118:THR:HA	36:BE:121:GLY:O	2.00	0.62
37:BF:12:SER:H	37:BF:116:LYS:HA	1.62	0.62
37:BF:125:GLN:HA	37:BF:129:GLU:CB	2.29	0.62
41:BJ:20:SER:O	41:BJ:22:TYR:N	2.32	0.62
41:BJ:77:THR:O	41:BJ:79:VAL:N	2.32	0.62
55:BZ:85:PHE:O	55:BZ:87:VAL:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:173:A:C4	1:C1:174:U:H6	2.16	0.62
1:C1:760:A:N6	1:C1:761:G:C2	2.67	0.62
1:C1:891:A:N1	1:C1:922:G:C6	2.67	0.62
1:C1:915:A:OP2	1:C1:915:A:H8	1.82	0.62
1:C1:955:A:H2'	1:C1:956:C:O4'	2.00	0.62
1:C1:1124:A:N6	1:C1:1125:A:C6	2.68	0.62
1:C1:1308:G:H2'	1:C1:1309:C:C6	2.35	0.62
1:C1:1334:U:C4	1:C1:1335:U:C5	2.87	0.62
1:C1:1353:U:H2'	1:C1:1353:U:O2	2.00	0.62
8:CG:129:TYR:HA	8:CG:133:ALA:H	1.65	0.62
29:D1:60:A:C2'	29:D1:61:A:H5'	2.29	0.62
29:D1:70:A:N3	29:D1:71:A:H4'	2.14	0.62
29:D1:149:U:N3	44:DO:55:ALA:HA	2.14	0.62
29:D1:513:G:H1'	37:DF:148:GLU:CB	2.30	0.62
29:D1:682:U:C5	29:D1:683:U:C5	2.88	0.62
29:D1:692:A:C2	29:D1:693:A:H1'	2.34	0.62
29:D1:722:G:N2	29:D1:748:U:H2'	2.14	0.62
29:D1:830:A:C5	29:D1:865:U:O2	2.53	0.62
29:D1:900:G:N3	29:D1:1589:A:C6	2.68	0.62
29:D1:950:G:O5'	29:D1:950:G:H8	1.83	0.62
29:D1:979:U:H2'	29:D1:979:U:O2	2.00	0.62
29:D1:987:U:H2'	29:D1:988:U:C6	2.34	0.62
29:D1:1054:A:OP1	74:D1:3591:OHX:N2	2.33	0.62
29:D1:1077:U:O2'	29:D1:1078:U:H6	1.83	0.62
29:D1:1114:U:C4	29:D1:1115:G:N2	2.68	0.62
29:D1:1558:A:OP1	29:D1:1559:A:C1'	2.40	0.62
29:D1:1659:U:C4	29:D1:1660:C:N4	2.67	0.62
29:D1:1815:U:C2'	29:D1:1816:A:H5'	2.28	0.62
29:D1:2145:A:O4'	29:D1:2958:A:H4'	1.99	0.62
29:D1:2164:A:C2	29:D1:2171:G:C4	2.88	0.62
29:D1:2251:G:C6	29:D1:2266:U:O2	2.53	0.62
29:D1:2254:U:H3'	74:D1:3415:OHX:N5	2.15	0.62
29:D1:2308:C:C4	29:D1:2309:A:C5	2.88	0.62
29:D1:2571:U:H3'	29:D1:2572:C:C6	2.35	0.62
29:D1:2680:A:H2'	42:DK:53:THR:O	2.00	0.62
29:D1:2847:A:C2	29:D1:2848:G:H1'	2.35	0.62
29:D1:2901:G:H2'	29:D1:2902:A:O4'	2.00	0.62
29:D1:2986:U:O2'	29:D1:2987:A:H5'	2.00	0.62
29:D1:3050:U:C4	29:D1:3051:U:C4	2.88	0.62
29:D1:3144:G:C6	74:D1:3431:OHX:N5	2.67	0.62
29:D1:3202:G:C2	29:D1:3203:U:C2	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3221:C:O2'	29:D1:3222:U:H5'	2.00	0.62
29:D1:3238:G:C8	29:D1:3238:G:OP2	2.53	0.62
29:D1:3294:A:N6	29:D1:3295:A:C5	2.67	0.62
29:D1:3315:G:C5'	29:D1:3319:U:H5'	2.30	0.62
29:D1:3333:G:H22	29:D1:3370:A:H4'	1.64	0.62
74:D1:3502:OHX:N4	54:DY:19:LYS:O	2.32	0.62
32:DA:56:PRO:O	32:DA:168:ALA:HB2	2.00	0.62
34:DC:105:VAL:C	34:DC:107:ALA:N	2.57	0.62
36:DE:100:ALA:O	36:DE:102:GLY:N	2.32	0.62
41:DJ:45:GLU:O	41:DJ:47:PRO:N	2.33	0.62
43:DN:97:SER:C	43:DN:99:TRP:N	2.55	0.62
47:DR:131:ALA:O	47:DR:132:PRO:C	2.42	0.62
1:A1:407:A:H1'	1:A1:1671:A:H2	1.63	0.62
1:A1:1105:C:H2'	1:A1:1106:U:H6	1.64	0.62
1:A1:1236:A:H3'	1:A1:1237:G:H8	1.63	0.62
1:A1:1501:C:C2'	1:A1:1502:G:H5'	2.29	0.62
1:A1:1540:G:C4	1:A1:1541:G:C8	2.88	0.62
1:A1:1585:U:N3	1:A1:1611:A:H2	1.96	0.62
1:A1:1684:U:O4	1:A1:1721:A:H2	1.83	0.62
9:AH:17:ALA:HB2	9:AH:30:VAL:CB	2.30	0.62
12:AK:24:LEU:H	12:AK:64:GLY:H	1.48	0.62
21:AT:300:THR:HA	21:AT:314:GLN:CB	2.29	0.62
23:Ab:84:UNK:C	23:Ab:86:UNK:H	2.12	0.62
28:Ah:56:UNK:HA	29:B1:3352:U:H5	1.63	0.62
29:B1:29:C:H3'	29:B1:29:C:C6	2.35	0.62
29:B1:308:A:C5	29:B1:309:U:N3	2.68	0.62
29:B1:365:A:N1	29:B1:366:A:C2	2.68	0.62
29:B1:421:G:C2	29:B1:2365:C:N1	2.67	0.62
29:B1:512:U:N1	29:B1:579:G:N2	2.48	0.62
29:B1:594:U:N3	29:B1:595:G:C5	2.68	0.62
29:B1:769:G:C4	29:B1:770:G:C8	2.87	0.62
29:B1:779:G:C4	29:B1:780:A:C8	2.88	0.62
29:B1:1066:G:O5'	29:B1:1067:U:OP2	2.18	0.62
29:B1:1225:A:N3	29:B1:1225:A:H2'	2.15	0.62
29:B1:1479:U:H5'	29:B1:1480:G:OP2	1.99	0.62
29:B1:1496:C:C2	29:B1:1521:G:N2	2.67	0.62
29:B1:1535:A:C8	29:B1:1536:G:C8	2.88	0.62
29:B1:1571:A:C6	29:B1:1572:U:H1'	2.35	0.62
29:B1:1779:C:C4'	29:B1:1779:C:OP1	2.47	0.62
29:B1:2101:C:H2'	29:B1:2102:U:O4'	1.99	0.62
29:B1:2119:A:H8	29:B1:2119:A:O5'	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2306:C:C6	29:B1:2306:C:C3'	2.81	0.62
29:B1:2682:C:C2	29:B1:2683:U:C5	2.88	0.62
29:B1:2761:G:H22	29:B1:2795:U:H2'	1.64	0.62
29:B1:3181:C:H1'	45:BP:167:TYR:CB	2.30	0.62
29:B1:3219:G:N9	29:B1:3257:C:H5"	2.15	0.62
29:B1:3228:C:N3	29:B1:3229:G:O6	2.33	0.62
29:B1:3292:A:O2'	29:B1:3293:U:O3'	2.14	0.62
30:B2:26:C:H2'	30:B2:27:A:H8	1.65	0.62
31:B3:65:A:C5	31:B3:66:A:N7	2.68	0.62
31:B3:141:C:H2'	31:B3:142:C:H6	1.65	0.62
53:BX:17:LYS:C	53:BX:19:TYR:N	2.50	0.62
1:C1:73:U:H2'	1:C1:74:U:O4'	2.00	0.62
1:C1:245:U:C2	1:C1:247:A:OP2	2.52	0.62
1:C1:289:U:O2	1:C1:289:U:C2'	2.48	0.62
1:C1:438:A:H8	1:C1:438:A:O5'	1.83	0.62
1:C1:518:A:H2'	1:C1:519:C:C5'	2.28	0.62
1:C1:985:G:C6	1:C1:986:G:C6	2.87	0.62
1:C1:1367:G:N3	1:C1:1367:G:H2'	2.13	0.62
1:C1:1478:G:H5'	1:C1:1478:G:C8	2.32	0.62
1:C1:1570:A:H3'	1:C1:1571:C:H6	1.63	0.62
1:C1:1690:G:H2'	1:C1:1691:A:H5"	1.82	0.62
2:CA:186:GLY:CA	2:CA:187:ALA:HB2	2.21	0.62
3:CB:178:ILE:HA	3:CB:195:ASP:O	2.00	0.62
3:CB:215:PHE:C	3:CB:217:ALA:N	2.54	0.62
9:CH:44:GLY:O	9:CH:46:MET:N	2.32	0.62
29:D1:25:U:N3	29:D1:331:G:H8	1.98	0.62
29:D1:377:A:C2'	29:D1:391:A:H61	2.13	0.62
29:D1:423:A:H2'	29:D1:424:G:H8	1.60	0.62
29:D1:649:A:H2'	29:D1:650:C:C6	2.35	0.62
29:D1:692:A:H2'	29:D1:693:A:C8	2.35	0.62
29:D1:693:A:H5"	29:D1:694:C:OP2	2.00	0.62
29:D1:760:G:O2'	29:D1:761:A:O4'	2.17	0.62
29:D1:832:G:N2	29:D1:863:C:C2	2.68	0.62
29:D1:913:A:H2	29:D1:2134:G:N3	1.98	0.62
29:D1:1530:U:O2	29:D1:1530:U:H2'	1.98	0.62
29:D1:1631:C:H5'	29:D1:1813:A:H2	1.64	0.62
29:D1:1843:C:C2	29:D1:1844:C:C5	2.88	0.62
29:D1:2104:A:C3'	29:D1:2105:G:H5"	2.30	0.62
29:D1:2560:C:H3'	29:D1:2561:A:C5'	2.29	0.62
29:D1:2587:U:C2	29:D1:2588:U:C6	2.88	0.62
29:D1:2678:A:H8	29:D1:2679:A:C2	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3022:G:HO2'	29:D1:3023:U:P	2.16	0.62
29:D1:3119:U:H2'	29:D1:3120:C:H5'	1.81	0.62
29:D1:3199:G:C3'	29:D1:3200:G:C8	2.83	0.62
29:D1:3309:G:C2	29:D1:3310:A:N7	2.67	0.62
29:D1:3323:A:C5'	56:Da:13:THR:O	2.48	0.62
30:D2:14:U:O5'	30:D2:14:U:H6	1.81	0.62
30:D2:23:A:C3'	30:D2:24:A:C8	2.78	0.62
30:D2:91:G:C6	30:D2:92:A:C6	2.87	0.62
31:D3:74:U:H4'	31:D3:89:A:C2	2.34	0.62
35:DD:252:GLU:C	35:DD:254:ALA:N	2.52	0.62
36:DE:189:GLU:CB	36:DE:190:ILE:HA	2.29	0.62
44:DO:20:ARG:O	44:DO:22:LEU:N	2.33	0.62
1:A1:100:A:C2	1:A1:101:U:C2	2.87	0.62
1:A1:534:A:C2'	1:A1:535:A:C8	2.83	0.62
1:A1:1134:C:O2'	1:A1:1135:U:H5'	2.00	0.62
1:A1:1189:A:H2'	1:A1:1189:A:N3	2.15	0.62
1:A1:1200:G:H5"	1:A1:1200:G:H8	1.65	0.62
1:A1:1204:A:N3	1:A1:1204:A:H2'	2.15	0.62
1:A1:1308:G:H2'	1:A1:1309:C:C6	2.35	0.62
2:AA:13:ASP:O	2:AA:14:ALA:HB2	2.00	0.62
3:AB:56:ILE:O	3:AB:59:HIS:N	2.32	0.62
3:AB:107:SER:HA	3:AB:190:LEU:O	1.99	0.62
9:AH:39:ILE:O	9:AH:40:ALA:HB2	2.00	0.62
10:AI:80:MET:C	10:AI:82:ASN:H	2.08	0.62
13:AL:48:LYS:C	13:AL:50:ALA:H	2.08	0.62
29:B1:370:U:H5	29:B1:371:G:C5	2.17	0.62
29:B1:563:U:C2'	29:B1:564:G:H4'	2.30	0.62
29:B1:705:A:C5	29:B1:715:A:N6	2.68	0.62
29:B1:943:U:C6	29:B1:1432:C:C5	2.88	0.62
29:B1:1038:C:H4'	29:B1:1038:C:OP1	1.99	0.62
29:B1:1142:G:H3'	29:B1:1143:A:H5'	1.82	0.62
29:B1:1313:G:C4	29:B1:1314:C:C6	2.87	0.62
29:B1:1620:U:H3	29:B1:1825:G:H1	1.47	0.62
29:B1:1687:U:OP1	29:B1:1687:U:C6	2.53	0.62
29:B1:1782:U:OP2	29:B1:1782:U:C6	2.47	0.62
29:B1:2197:C:H4'	29:B1:2198:A:C8	2.35	0.62
29:B1:2211:U:H2'	29:B1:2212:C:O4'	1.99	0.62
29:B1:2260:U:O4	74:B1:3438:OHX:N2	2.33	0.62
29:B1:2511:A:H2'	29:B1:2512:C:H5'	1.81	0.62
29:B1:2768:U:H2'	29:B1:2769:A:H8	1.64	0.62
29:B1:2912:G:C6	29:B1:2913:C:O2	2.52	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3189:G:N3	29:B1:3190:C:C6	2.68	0.62
29:B1:3321:C:C2'	29:B1:3322:A:H8	2.12	0.62
29:B1:3377:G:H2'	74:B1:3450:OHX:N4	2.15	0.62
30:B2:64:A:C6	30:B2:111:U:C4	2.87	0.62
31:B3:69:U:O3'	31:B3:70:G:H4'	2.00	0.62
31:B3:141:C:C2	31:B3:142:C:C5	2.88	0.62
37:BF:165:LEU:O	37:BF:166:LYS:C	2.42	0.62
38:BG:180:SER:O	38:BG:183:ASP:N	2.32	0.62
41:BJ:7:ARG:C	41:BJ:9:TYR:H	2.07	0.62
54:BY:130:VAL:C	54:BY:132:LYS:H	2.07	0.62
1:C1:4:C:H2'	1:C1:5:U:C6	2.33	0.62
1:C1:651:G:C8	74:C1:1970:OHX:N3	2.67	0.62
1:C1:1028:C:O2'	1:C1:1029:U:OP2	2.18	0.62
1:C1:1087:A:H3'	1:C1:1088:A:C8	2.31	0.62
1:C1:1275:A:N6	1:C1:1431:C:N3	2.48	0.62
1:C1:1481:C:H1'	1:C1:1482:C:C5'	2.29	0.62
1:C1:1756:A:H2'	1:C1:1757:G:H8	1.64	0.62
1:C1:1765:A:OP2	74:C1:1983:OHX:N1	2.33	0.62
12:CK:46:LEU:C	12:CK:48:ASN:N	2.55	0.62
23:Cb:13:UNK:O	23:Cb:14:UNK:CB	2.48	0.62
23:Cb:110:UNK:C	23:Cb:112:UNK:H	2.11	0.62
28:Ch:16:UNK:O	28:Ch:19:UNK:N	2.32	0.62
29:D1:86:G:H22	29:D1:98:G:C2'	2.13	0.62
29:D1:404:G:C2	29:D1:405:U:C1'	2.81	0.62
29:D1:528:U:C4	29:D1:564:G:O6	2.52	0.62
29:D1:714:G:O2'	29:D1:751:A:O2'	2.17	0.62
29:D1:717:C:C4	29:D1:721:G:OP1	2.52	0.62
29:D1:779:G:H3'	29:D1:779:G:C8	2.34	0.62
29:D1:951:A:C2'	29:D1:952:A:C5'	2.60	0.62
29:D1:1064:A:O2'	29:D1:1065:A:P	2.58	0.62
29:D1:1288:U:H2'	29:D1:1289:G:H8	1.65	0.62
29:D1:1815:U:H2'	29:D1:1816:A:H5'	1.80	0.62
29:D1:2128:C:C4	29:D1:2129:U:C5	2.88	0.62
29:D1:2676:A:C4'	29:D1:2677:G:C8	2.83	0.62
29:D1:2775:U:HO2'	29:D1:2776:C:P	2.21	0.62
29:D1:2833:A:N1	29:D1:2834:G:C8	2.68	0.62
29:D1:2882:U:H2'	29:D1:2883:U:O5'	2.00	0.62
29:D1:2908:G:C5	29:D1:2909:U:C5	2.87	0.62
29:D1:2974:U:H2'	29:D1:2975:U:C6	2.34	0.62
29:D1:3068:U:OP1	48:DS:59:SER:N	2.30	0.62
29:D1:3086:A:C4	29:D1:3087:A:C8	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3135:U:C4	29:D1:3136:G:C6	2.88	0.62
29:D1:3269:U:O2'	29:D1:3270:U:C5'	2.48	0.62
29:D1:3274:A:C1'	29:D1:3275:U:P	2.87	0.62
30:D2:66:A:H8	30:D2:66:A:O5'	1.82	0.62
34:DC:27:ALA:HB2	34:DC:219:ALA:HA	1.82	0.62
35:DD:162:THR:HA	35:DD:218:ALA:HB1	1.82	0.62
39:DH:137:ASN:HA	44:DO:3:ALA:HB2	1.82	0.62
42:DK:118:PRO:HA	42:DK:119:SER:CB	2.29	0.62
48:DS:151:ARG:HA	48:DS:154:ALA:CB	2.30	0.62
49:DT:114:ALA:O	49:DT:117:ALA:HB3	1.99	0.62
1:A1:97:C:C1'	1:A1:426:G:H5'	2.24	0.61
1:A1:115:G:N2	1:A1:334:G:H21	1.95	0.61
1:A1:169:A:C5	1:A1:171:A:C5	2.88	0.61
1:A1:268:C:N3	1:A1:288:A:C2	2.68	0.61
1:A1:332:U:H5"	1:A1:333:A:OP2	1.99	0.61
1:A1:372:G:H1'	1:A1:612:U:H3	1.65	0.61
1:A1:790:U:C2	1:A1:791:A:C8	2.88	0.61
1:A1:989:U:C4	1:A1:990:C:N4	2.68	0.61
1:A1:1172:G:C4	1:A1:1173:C:C5	2.88	0.61
1:A1:1499:G:H2'	1:A1:1500:C:H6	1.64	0.61
1:A1:1503:A:H2'	1:A1:1504:G:H5'	1.82	0.61
1:A1:1541:G:C6	1:A1:1542:G:C6	2.87	0.61
1:A1:1597:A:C5	1:A1:1598:U:N3	2.68	0.61
15:AN:83:GLU:H	20:AS:53:ASN:CB	2.13	0.61
17:AP:132:LEU:N	17:AP:133:LEU:C	2.58	0.61
24:Ac:46:UNK:HA	24:Ac:68:UNK:O	1.99	0.61
29:B1:44:U:C5	29:B1:45:A:N9	2.68	0.61
29:B1:190:U:C4	29:B1:224:C:H1'	2.35	0.61
29:B1:282:G:C4'	29:B1:283:G:H8	2.12	0.61
29:B1:287:G:C5	29:B1:288:C:C5	2.88	0.61
29:B1:625:G:O2'	29:B1:626:U:O4'	2.17	0.61
29:B1:771:A:H3'	29:B1:772:U:H5'	1.82	0.61
29:B1:773:G:O2'	29:B1:774:G:C5'	2.47	0.61
29:B1:915:A:C8	29:B1:916:G:H4'	2.35	0.61
29:B1:972:A:C2'	29:B1:973:A:H5'	2.30	0.61
29:B1:1042:U:H2'	29:B1:1043:C:C6	2.34	0.61
29:B1:1113:G:H4'	54:BY:17:ALA:HB1	1.82	0.61
29:B1:1175:C:O2'	29:B1:1176:C:O5'	2.17	0.61
29:B1:1536:G:C5	29:B1:1586:G:N2	2.68	0.61
29:B1:1547:G:H2'	29:B1:1548:C:H6	1.65	0.61
29:B1:1723:A:H5"	29:B1:1724:U:OP2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2150:G:H2'	29:B1:2151:C:H5'	1.81	0.61
29:B1:2522:G:C1'	29:B1:2523:A:P	2.87	0.61
29:B1:2576:G:C6	29:B1:2577:C:C4	2.88	0.61
29:B1:2594:C:OP2	29:B1:2594:C:C6	2.53	0.61
29:B1:2805:G:O2'	29:B1:2806:U:H5'	1.99	0.61
29:B1:2859:U:H4'	29:B1:2860:U:OP1	2.01	0.61
29:B1:2973:G:O2'	29:B1:2974:U:H5'	2.00	0.61
29:B1:3130:A:H5'	29:B1:3131:U:C5	2.35	0.61
29:B1:3191:G:C2	29:B1:3202:G:C2	2.88	0.61
30:B2:67:G:C6	30:B2:68:C:C4	2.88	0.61
34:BC:294:GLY:O	34:BC:305:ILE:N	2.33	0.61
40:BI:85:GLY:HA3	40:BI:187:ILE:C	2.25	0.61
47:BR:131:ALA:O	47:BR:132:PRO:C	2.42	0.61
48:BS:23:TRP:O	48:BS:50:ILE:HA	2.00	0.61
54:BY:80:THR:O	54:BY:82:ILE:N	2.33	0.61
68:Bn:14:UNK:C	68:Bn:16:UNK:H	2.13	0.61
1:C1:47:A:C8	1:C1:425:A:C5	2.88	0.61
1:C1:915:A:N7	1:C1:916:U:C4	2.67	0.61
1:C1:1118:G:C6	1:C1:1119:G:C5	2.88	0.61
1:C1:1118:G:H2'	1:C1:1119:G:H8	1.65	0.61
1:C1:1203:A:N1	1:C1:1556:A:C4	2.68	0.61
1:C1:1446:A:O2'	1:C1:1448:G:N7	2.30	0.61
1:C1:1517:U:O2'	1:C1:1518:C:H5'	2.00	0.61
1:C1:1598:U:C5	1:C1:1599:C:C5	2.87	0.61
1:C1:1632:C:C2	1:C1:1633:A:C8	2.88	0.61
3:CB:152:HIS:C	3:CB:154:LEU:H	2.08	0.61
3:CB:237:VAL:O	3:CB:238:SER:C	2.43	0.61
5:CD:148:ARG:O	5:CD:157:ARG:HA	1.99	0.61
13:CL:26:ILE:O	13:CL:27:LYS:O	2.18	0.61
14:CM:60:SER:C	14:CM:62:ALA:N	2.57	0.61
28:Ch:3:UNK:O	28:Ch:6:UNK:O	2.16	0.61
29:D1:46:U:C2'	29:D1:47:C:H5'	2.30	0.61
29:D1:155:G:P	29:D1:155:G:C8	2.88	0.61
29:D1:238:A:H8	29:D1:238:A:OP2	1.83	0.61
29:D1:386:A:O5'	29:D1:386:A:H8	1.83	0.61
29:D1:524:U:O2'	29:D1:525:C:C5'	2.48	0.61
29:D1:588:G:C4'	29:D1:589:A:H62	2.13	0.61
29:D1:645:A:C6	29:D1:649:A:C8	2.88	0.61
29:D1:683:U:H2'	29:D1:684:G:H5'	1.82	0.61
29:D1:776:U:H5'	29:D1:777:U:C5'	2.23	0.61
29:D1:781:G:C5	29:D1:782:U:C5	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1279:C:C2	29:D1:1280:C:C5	2.88	0.61
29:D1:1315:U:O2	29:D1:1315:U:C2'	2.48	0.61
29:D1:1394:A:H2'	29:D1:1395:G:O4'	2.00	0.61
29:D1:1539:A:C5	29:D1:1540:U:C5	2.88	0.61
29:D1:1655:G:C8	29:D1:1656:A:C8	2.87	0.61
29:D1:1740:U:C3'	29:D1:1741:A:H5'	2.29	0.61
29:D1:1830:G:C5	29:D1:1831:U:C5	2.88	0.61
29:D1:1838:G:C5'	29:D1:1839:A:OP1	2.46	0.61
29:D1:2165:G:N2	29:D1:2170:U:C4	2.67	0.61
29:D1:2222:A:HO2'	29:D1:2223:A:H8	1.42	0.61
29:D1:2713:U:H4'	29:D1:2714:G:OP1	1.99	0.61
29:D1:2750:U:C2'	29:D1:2751:G:H5'	2.29	0.61
29:D1:2880:U:H1'	34:DC:250:ALA:HB3	1.80	0.61
29:D1:3092:C:H5'	29:D1:3093:C:OP2	2.00	0.61
29:D1:3300:U:H2'	29:D1:3300:U:O2	2.00	0.61
31:D3:56:G:O2'	31:D3:57:C:H5'	2.00	0.61
31:D3:56:G:H2'	31:D3:57:C:H6	1.65	0.61
36:DE:94:ASN:O	36:DE:96:ALA:N	2.32	0.61
38:DG:240:VAL:O	38:DG:241:LYS:C	2.43	0.61
47:DR:22:ASP:O	47:DR:23:ASN:C	2.43	0.61
51:DV:39:LEU:O	51:DV:42:GLN:N	2.31	0.61
53:DX:19:TYR:C	53:DX:21:THR:H	2.03	0.61
1:A1:47:A:C2	1:A1:100:A:C4	2.89	0.61
1:A1:110:U:H5"	1:A1:111:U:OP2	2.00	0.61
1:A1:162:A:C3'	1:A1:163:G:C8	2.79	0.61
1:A1:568:G:C2'	1:A1:569:C:H5'	2.30	0.61
1:A1:701:U:O4	1:A1:702:G:N3	2.32	0.61
1:A1:1172:G:C6	1:A1:1173:C:N4	2.69	0.61
1:A1:1398:U:HO2'	1:A1:1399:C:H3'	1.63	0.61
1:A1:1486:G:O6	1:A1:1520:U:O2	2.18	0.61
1:A1:1525:A:C6	1:A1:1526:A:C6	2.88	0.61
1:A1:1566:U:O2'	1:A1:1567:U:H5"	2.00	0.61
1:A1:1614:A:H2	1:A1:1616:G:OP2	1.82	0.61
1:A1:1645:G:N1	1:A1:1757:G:C6	2.68	0.61
1:A1:1683:C:H1'	1:A1:1720:G:O6	2.00	0.61
1:A1:1783:C:H2'	1:A1:1784:C:C6	2.35	0.61
3:AB:165:VAL:CA	3:AB:166:THR:CB	2.78	0.61
5:AD:200:ASN:C	5:AD:204:GLY:HA3	2.25	0.61
24:Ac:11:UNK:C	24:Ac:62:UNK:HA	2.31	0.61
29:B1:25:U:N3	29:B1:331:G:C8	2.68	0.61
29:B1:339:C:H2'	29:B1:340:C:H5"	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:431:U:H6	29:B1:431:U:C5'	2.13	0.61
29:B1:719:U:O2'	29:B1:720:A:H8	1.81	0.61
29:B1:822:G:C4	29:B1:823:C:C6	2.88	0.61
29:B1:829:U:H3	29:B1:895:A:H62	1.41	0.61
29:B1:931:C:H3'	29:B1:932:U:H2'	1.82	0.61
29:B1:1114:U:C4	29:B1:1115:G:N2	2.68	0.61
29:B1:1127:G:N2	29:B1:1132:C:C4	2.67	0.61
29:B1:1780:G:H2'	29:B1:1781:C:H5	1.66	0.61
29:B1:1785:U:O2'	29:B1:1786:G:C8	2.51	0.61
29:B1:1931:U:N3	29:B1:2121:G:N3	2.49	0.61
29:B1:2101:C:O2'	29:B1:2102:U:H5'	2.00	0.61
29:B1:2112:U:H1'	29:B1:2113:A:OP2	2.00	0.61
29:B1:2125:A:H5'	29:B1:2126:A:OP2	1.99	0.61
29:B1:2144:A:C4	29:B1:2281:A:C6	2.87	0.61
29:B1:2214:A:H2'	29:B1:2215:A:H8	1.64	0.61
29:B1:2259:A:H5"	29:B1:2260:U:H5	1.64	0.61
29:B1:2516:U:O2'	29:B1:2517:U:O4'	2.15	0.61
29:B1:2578:U:H2'	29:B1:2579:G:O4'	2.00	0.61
29:B1:2746:A:H2'	29:B1:2747:A:O4'	1.99	0.61
29:B1:3299:A:O2'	29:B1:3300:U:OP2	2.18	0.61
36:BE:189:GLU:CB	36:BE:190:ILE:HA	2.30	0.61
38:BG:224:ILE:C	38:BG:226:GLY:H	2.08	0.61
1:C1:48:G:C6	1:C1:432:G:C2	2.88	0.61
1:C1:147:A:H3'	1:C1:148:A:H8	1.64	0.61
1:C1:297:U:H2'	1:C1:298:C:C5'	2.30	0.61
1:C1:749:U:O2	1:C1:801:G:C4	2.53	0.61
1:C1:888:U:H3'	1:C1:889:U:C6	2.34	0.61
1:C1:1646:C:O2	1:C1:1646:C:C2'	2.48	0.61
1:C1:1733:C:H2'	1:C1:1734:U:C6	2.35	0.61
1:C1:1734:U:N3	1:C1:1735:U:C4	2.68	0.61
2:CA:52:LYS:C	2:CA:54:TRP:H	2.07	0.61
5:CD:112:ARG:O	5:CD:113:ILE:C	2.43	0.61
13:CL:46:VAL:C	13:CL:48:LYS:H	2.07	0.61
21:CT:50:ASP:H	21:CT:54:PHE:HA	1.65	0.61
29:D1:155:G:OP2	29:D1:155:G:C8	2.54	0.61
29:D1:384:A:C4	29:D1:1465:A:C6	2.88	0.61
29:D1:395:A:OP1	29:D1:395:A:C8	2.52	0.61
29:D1:651:G:C6	29:D1:652:G:C6	2.88	0.61
29:D1:747:A:C6	29:D1:748:U:H5	2.17	0.61
29:D1:1062:A:H3'	29:D1:1063:G:C8	2.34	0.61
29:D1:1324:U:H6	29:D1:1324:U:H5'	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1393:A:C2	29:D1:1394:A:C4	2.87	0.61
29:D1:1453:A:C2	29:D1:1878:G:N2	2.67	0.61
29:D1:1585:C:O2'	29:D1:1586:G:H5'	1.99	0.61
29:D1:2149:A:H62	29:D1:2187:G:H21	1.49	0.61
29:D1:2265:C:N4	29:D1:2266:U:N3	2.48	0.61
29:D1:2314:U:OP2	29:D1:2314:U:H4'	2.00	0.61
29:D1:2353:G:C4	29:D1:2354:C:H6	2.18	0.61
29:D1:2513:U:C5	29:D1:2591:A:N1	2.63	0.61
29:D1:2694:A:H2'	29:D1:2695:A:H1'	1.82	0.61
29:D1:2945:G:C8	29:D1:2979:U:O2	2.53	0.61
29:D1:3099:C:C5'	29:D1:3099:C:C6	2.83	0.61
29:D1:3191:G:C5	29:D1:3202:G:N2	2.68	0.61
29:D1:3327:G:C6	29:D1:3328:G:N7	2.67	0.61
29:D1:3359:A:H2'	29:D1:3360:C:O4'	2.01	0.61
30:D2:22:A:C5	30:D2:23:A:C6	2.88	0.61
30:D2:30:G:H2'	30:D2:31:U:O5'	2.01	0.61
30:D2:63:A:N1	30:D2:65:G:O6	2.33	0.61
30:D2:98:C:C5'	30:D2:99:G:OP2	2.45	0.61
31:D3:77:A:H62	53:DX:72:SER:CB	2.13	0.61
35:DD:256:THR:O	35:DD:257:LYS:CB	2.48	0.61
36:DE:216:GLU:C	36:DE:219:PHE:H	2.08	0.61
37:DF:92:SER:O	37:DF:93:VAL:C	2.43	0.61
40:DI:63:LYS:CA	40:DI:66:ALA:HB3	2.25	0.61
40:DI:90:MET:HA	40:DI:181:VAL:HA	1.81	0.61
50:DU:45:ARG:O	50:DU:47:ASN:N	2.29	0.61
54:DY:73:LEU:HA	54:DY:116:GLY:HA3	1.81	0.61
1:A1:591:A:H2'	1:A1:592:A:H8	1.62	0.61
1:A1:916:U:C5	1:A1:917:U:C4	2.89	0.61
1:A1:1349:G:C4'	1:A1:1350:U:H5'	2.31	0.61
1:A1:1552:U:O2	1:A1:1552:U:C2'	2.48	0.61
1:A1:1575:G:C2	1:A1:1576:A:C4	2.89	0.61
1:A1:1575:G:H5'	1:A1:1576:A:OP2	2.01	0.61
1:A1:1616:G:O2'	1:A1:1617:U:H5'	2.01	0.61
1:A1:1683:C:O2'	1:A1:1684:U:N3	2.32	0.61
4:AC:174:HIS:O	4:AC:183:GLY:HA2	2.01	0.61
5:AD:161:ASP:CA	5:AD:162:VAL:CB	2.77	0.61
5:AD:180:ARG:O	5:AD:182:ALA:N	2.33	0.61
13:AL:101:LEU:O	13:AL:102:ALA:HB2	1.99	0.61
29:B1:155:G:OP2	29:B1:155:G:C8	2.52	0.61
29:B1:733:G:O6	29:B1:737:G:N1	2.34	0.61
29:B1:943:U:C2	29:B1:1432:C:H5	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:995:U:C4	29:B1:2637:A:C4	2.88	0.61
29:B1:1198:C:OP2	29:B1:1200:A:N7	2.33	0.61
29:B1:1198:C:H2'	29:B1:1200:A:H8	1.65	0.61
29:B1:1260:A:C5	29:B1:1279:C:H1'	2.35	0.61
29:B1:1276:U:C4	74:B1:3563:OHX:N4	2.68	0.61
29:B1:1329:U:O2'	29:B1:1330:A:O5'	2.17	0.61
29:B1:1339:C:C2	29:B1:1340:G:C8	2.88	0.61
29:B1:1393:A:C8	29:B1:1418:A:C4	2.88	0.61
29:B1:1517:G:H2'	29:B1:1518:U:H6	1.65	0.61
29:B1:1559:A:H2'	29:B1:1560:G:H5'	1.81	0.61
29:B1:1725:C:H2'	29:B1:1726:C:C5	2.34	0.61
29:B1:2147:A:H2'	29:B1:2148:U:H6	1.63	0.61
29:B1:2249:G:C4	29:B1:2272:G:N7	2.67	0.61
29:B1:2279:A:H2	29:B1:2285:C:N4	1.98	0.61
29:B1:2510:U:C2	29:B1:2511:A:C8	2.87	0.61
29:B1:2523:A:H4'	29:B1:2524:A:OP1	2.00	0.61
29:B1:2761:G:N2	29:B1:2795:U:N1	2.48	0.61
29:B1:3049:A:C6	29:B1:3050:U:C2	2.88	0.61
29:B1:3160:U:H2'	29:B1:3161:C:H6	1.64	0.61
31:B3:117:C:H2'	31:B3:118:C:H6	1.65	0.61
34:BC:132:LYS:C	34:BC:134:SER:H	2.09	0.61
40:BI:71:VAL:O	40:BI:72:LYS:C	2.43	0.61
40:BI:86:TYR:CB	40:BI:87:LYS:CA	2.78	0.61
59:Bd:68:LYS:C	59:Bd:70:VAL:H	2.07	0.61
1:C1:10:G:N2	1:C1:11:A:H1'	2.15	0.61
1:C1:225:A:N6	1:C1:837:G:C2	2.68	0.61
1:C1:402:C:C2	1:C1:403:G:C4'	2.82	0.61
1:C1:477:A:C5	1:C1:539:G:O6	2.53	0.61
1:C1:621:A:H1'	1:C1:1107:G:O4'	2.00	0.61
1:C1:760:A:H2'	1:C1:761:G:H5'	1.82	0.61
1:C1:1092:A:N3	1:C1:1094:G:N7	2.48	0.61
1:C1:1326:A:C2'	1:C1:1327:C:H5'	2.30	0.61
1:C1:1365:C:H2'	1:C1:1366:U:C4'	2.29	0.61
1:C1:1480:G:C8	1:C1:1480:G:C5'	2.71	0.61
1:C1:1559:A:O2'	1:C1:1560:U:O4'	2.18	0.61
1:C1:1636:C:C4	1:C1:1765:A:N6	2.67	0.61
1:C1:1720:G:C5	1:C1:1721:A:C5	2.88	0.61
6:CE:151:ASP:O	6:CE:153:GLU:N	2.33	0.61
10:CI:98:ASN:N	10:CI:101:ALA:HB3	2.16	0.61
13:CL:48:LYS:C	13:CL:50:ALA:H	2.08	0.61
14:CM:28:LEU:C	14:CM:30:VAL:N	2.56	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:72:C:C2	29:D1:73:C:O4'	2.53	0.61
29:D1:135:C:H5'	29:D1:136:G:OP2	2.00	0.61
29:D1:308:A:C5	29:D1:309:U:N3	2.67	0.61
29:D1:394:G:N2	29:D1:399:A:N7	2.48	0.61
29:D1:522:A:H3'	29:D1:523:A:H5"	1.82	0.61
29:D1:533:A:C2	29:D1:534:U:O4	2.53	0.61
29:D1:704:U:H3'	29:D1:704:U:C6	2.34	0.61
29:D1:827:A:H3'	29:D1:828:A:H8	1.65	0.61
29:D1:1099:A:C6	29:D1:1100:U:C4	2.88	0.61
29:D1:1109:U:H5"	29:D1:1110:U:OP2	2.00	0.61
29:D1:1174:G:C6	29:D1:1318:A:N3	2.67	0.61
29:D1:1226:G:N2	29:D1:1227:C:C2	2.68	0.61
29:D1:1351:U:O2	29:D1:1352:A:N7	2.34	0.61
29:D1:1405:U:C5	29:D1:1406:A:N7	2.68	0.61
29:D1:1780:G:O2'	29:D1:1781:C:P	2.57	0.61
29:D1:2667:A:C3'	29:D1:2667:A:C4	2.83	0.61
29:D1:3005:A:C4	29:D1:3140:G:N2	2.68	0.61
29:D1:3117:C:C4	29:D1:3118:C:C6	2.88	0.61
29:D1:3140:G:C8	29:D1:3140:G:C5'	2.77	0.61
31:D3:37:A:N6	31:D3:104:A:C4	2.69	0.61
34:DC:189:SER:O	34:DC:192:VAL:N	2.33	0.61
43:DN:88:ALA:O	43:DN:90:VAL:N	2.33	0.61
45:DP:56:ASP:O	45:DP:59:ARG:CB	2.48	0.61
50:DU:111:GLY:O	50:DU:112:SER:O	2.18	0.61
54:DY:80:THR:C	54:DY:82:ILE:N	2.58	0.61
63:Dh:14:UNK:CB	63:Dh:14:UNK:C	2.75	0.61
1:A1:8:U:H5	1:A1:1140:G:O6	1.82	0.61
1:A1:57:G:C5	1:A1:58:U:C5	2.89	0.61
1:A1:172:C:N3	1:A1:173:A:C8	2.68	0.61
1:A1:1074:G:H2'	1:A1:1075:C:H5"	1.83	0.61
1:A1:1202:A:N6	1:A1:1456:C:H2'	2.15	0.61
1:A1:1203:A:C4	1:A1:1555:A:N1	2.69	0.61
1:A1:1265:G:H2'	1:A1:1266:U:O4'	2.00	0.61
1:A1:1273:G:C5'	1:A1:1274:C:H5'	2.30	0.61
1:A1:1346:A:N3	15:AN:14:GLN:HA	2.14	0.61
1:A1:1368:G:H5'	14:AM:70:GLN:CB	2.31	0.61
1:A1:1458:G:H5"	1:A1:1459:C:H5	1.60	0.61
1:A1:1496:U:H4'	1:A1:1519:U:O2'	1.99	0.61
1:A1:1562:G:H2'	1:A1:1563:C:C6	2.34	0.61
1:A1:1728:A:H2'	1:A1:1729:C:C6	2.28	0.61
1:A1:1757:G:C6	1:A1:1758:U:C4	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1793:G:O2'	1:A1:1794:A:P	2.57	0.61
3:AB:124:ALA:O	3:AB:125:ILE:C	2.41	0.61
5:AD:117:THR:CA	5:AD:191:ALA:HB1	2.30	0.61
24:Ac:3:UNK:HA	24:Ac:72:UNK:HA	1.81	0.61
29:B1:13:A:C2	29:B1:15:C:H3'	2.35	0.61
29:B1:200:C:H4'	29:B1:201:A:OP2	2.00	0.61
29:B1:347:G:C6	29:B1:348:A:C6	2.88	0.61
29:B1:559:A:C5	29:B1:560:G:N7	2.68	0.61
29:B1:705:A:C4	29:B1:715:A:N6	2.68	0.61
29:B1:771:A:H2'	29:B1:772:U:H5"	1.82	0.61
29:B1:1079:A:N6	29:B1:1080:A:N6	2.48	0.61
29:B1:1284:C:C5	29:B1:1285:G:N2	2.65	0.61
29:B1:1354:G:C8	29:B1:1355:A:N1	2.68	0.61
29:B1:1456:A:H2	29:B1:1476:G:N3	1.97	0.61
29:B1:1522:U:C5	29:B1:1835:A:C1'	2.83	0.61
29:B1:1779:C:OP1	29:B1:1779:C:O4'	2.18	0.61
29:B1:2111:G:H22	51:BV:50:ALA:H	1.49	0.61
29:B1:2160:G:H2'	29:B1:2161:G:H8	1.65	0.61
29:B1:2307:G:C6	29:B1:2310:U:C4	2.88	0.61
29:B1:2310:U:O2'	29:B1:2311:G:H5'	2.01	0.61
29:B1:2311:G:O2'	29:B1:2312:A:O4'	2.18	0.61
29:B1:2640:A:C5	29:B1:2641:U:C4	2.88	0.61
29:B1:2651:G:O2'	29:B1:2796:G:N1	2.33	0.61
29:B1:2916:U:C5	29:B1:2935:U:C2	2.89	0.61
29:B1:3137:C:O2	29:B1:3137:C:C2'	2.41	0.61
29:B1:3209:A:H3'	29:B1:3210:A:H8	1.60	0.61
29:B1:3215:A:P	29:B1:3218:A:O4'	2.58	0.61
31:B3:70:G:P	31:B3:71:A:OP2	2.58	0.61
31:B3:102:U:H2'	31:B3:103:G:C8	2.35	0.61
34:BC:142:ALA:C	34:BC:144:ILE:H	2.08	0.61
35:BD:14:GLU:N	35:BD:15:ALA:HA	2.13	0.61
41:BJ:174:THR:O	41:BJ:175:ASN:C	2.42	0.61
44:BO:158:HIS:C	44:BO:160:GLU:H	2.08	0.61
52:BW:110:VAL:O	52:BW:111:ASN:C	2.43	0.61
54:BY:129:PHE:CB	54:BY:130:VAL:HA	2.31	0.61
56:Ba:58:ALA:O	56:Ba:60:TRP:N	2.33	0.61
57:Bb:42:VAL:O	57:Bb:45:ARG:N	2.34	0.61
58:Bc:5:LYS:C	58:Bc:7:TYR:H	2.07	0.61
1:C1:20:G:C2'	1:C1:21:U:H5'	2.29	0.61
1:C1:64:U:O2	1:C1:64:U:H2'	1.99	0.61
1:C1:142:G:C8	1:C1:266:A:C6	2.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:156:A:H5'	1:C1:416:A:C8	2.36	0.61
1:C1:210:A:C6	1:C1:211:U:C4	2.88	0.61
1:C1:269:G:H2'	1:C1:270:C:C6	2.36	0.61
1:C1:604:A:C6	1:C1:605:A:C6	2.88	0.61
1:C1:766:U:H3'	1:C1:768:C:OP2	2.01	0.61
1:C1:854:U:O2'	1:C1:855:A:H5'	2.01	0.61
1:C1:888:U:H3'	1:C1:889:U:H6	1.66	0.61
1:C1:1023:A:C8	74:C1:1961:OHX:N6	2.68	0.61
1:C1:1150:G:N3	1:C1:1766:A:OP1	2.32	0.61
1:C1:1267:G:H21	1:C1:1448:G:C4'	2.13	0.61
1:C1:1489:U:C5	1:C1:1513:G:C2	2.89	0.61
1:C1:1685:G:N2	1:C1:1718:G:N2	2.48	0.61
1:C1:1759:C:H5"	1:C1:1760:G:OP2	1.99	0.61
1:C1:1763:A:C2'	1:C1:1764:C:H5"	2.30	0.61
1:C1:1773:C:C2	1:C1:1789:G:C2	2.88	0.61
1:C1:1793:G:O2'	1:C1:1794:A:O5'	2.17	0.61
3:CB:56:ILE:O	3:CB:59:HIS:N	2.29	0.61
10:CI:67:ALA:HA	10:CI:68:PRO:C	2.25	0.61
13:CL:76:PRO:HA	13:CL:81:ILE:H	1.64	0.61
17:CP:86:PHE:C	17:CP:88:PRO:N	2.58	0.61
29:D1:39:A:H5"	29:D1:40:A:H4'	1.82	0.61
29:D1:53:G:H2'	29:D1:54:C:C6	2.33	0.61
29:D1:221:A:C8	29:D1:224:C:N4	2.68	0.61
29:D1:370:U:C5	29:D1:371:G:C5	2.89	0.61
29:D1:1144:U:O2'	29:D1:1145:G:OP2	2.16	0.61
29:D1:1302:A:C4	29:D1:2887:A:N1	2.68	0.61
29:D1:1595:U:HO2'	29:D1:1596:C:H6	1.49	0.61
29:D1:1620:U:H3	29:D1:1825:G:H1	1.48	0.61
29:D1:1666:G:H2'	29:D1:1667:A:H8	1.65	0.61
29:D1:1797:A:H2'	29:D1:1798:A:C8	2.36	0.61
29:D1:2258:U:H2'	29:D1:2258:U:O2	2.00	0.61
29:D1:2297:U:O2	29:D1:2299:A:C5	2.53	0.61
29:D1:2386:A:N9	29:D1:2994:A:C2	2.68	0.61
29:D1:2562:A:H2'	29:D1:2563:G:C8	2.35	0.61
29:D1:2821:C:C2'	29:D1:2822:U:H5'	2.30	0.61
29:D1:3057:U:C3'	29:D1:3058:U:H4'	2.29	0.61
29:D1:3059:G:C8	29:D1:3059:G:H5"	2.34	0.61
29:D1:3089:C:H3'	29:D1:3090:U:C5'	2.26	0.61
29:D1:3142:A:H1'	29:D1:3144:G:C8	2.35	0.61
31:D3:13:A:H2'	31:D3:14:C:C6	2.35	0.61
34:DC:247:ARG:O	34:DC:248:LYS:CB	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:66:ARG:O	47:DR:68:ALA:N	2.33	0.61
52:DW:69:SER:O	52:DW:71:THR:N	2.33	0.61
59:Dd:65:ARG:C	59:Dd:67:LEU:H	2.07	0.61
1:A1:39:A:C5	1:A1:467:G:N2	2.67	0.61
1:A1:445:A:N3	1:A1:446:A:C8	2.68	0.61
1:A1:515:A:H2'	1:A1:515:A:N3	2.14	0.61
1:A1:768:C:H2'	1:A1:769:A:O4'	2.00	0.61
1:A1:977:A:C2'	1:A1:978:A:H5'	2.30	0.61
1:A1:979:A:H2	1:A1:1775:U:H4'	1.64	0.61
1:A1:1173:C:O2'	1:A1:1174:C:H5'	2.00	0.61
1:A1:1196:A:C4'	1:A1:1197:C:H5"	2.29	0.61
1:A1:1196:A:C8	1:A1:1602:C:H4'	2.35	0.61
1:A1:1402:G:C6	1:A1:1403:C:C4	2.88	0.61
1:A1:1433:G:N2	1:A1:1434:U:C4	2.68	0.61
1:A1:1485:C:H3'	1:A1:1486:G:C5'	2.30	0.61
1:A1:1586:A:C5	1:A1:1611:A:C2	2.89	0.61
1:A1:1616:G:H21	1:A1:1618:C:N4	1.93	0.61
1:A1:1753:A:N6	1:A1:1754:A:C6	2.68	0.61
29:B1:33:G:N2	29:B1:50:U:C5	2.68	0.61
29:B1:189:G:C2	29:B1:191:U:O4	2.53	0.61
29:B1:293:C:N3	29:B1:294:U:C2	2.68	0.61
29:B1:428:A:H2'	29:B1:429:U:O5'	2.00	0.61
29:B1:623:U:C2'	29:B1:624:G:H8	2.09	0.61
29:B1:998:A:O2'	30:B2:103:A:N3	2.30	0.61
29:B1:1129:A:C2'	29:B1:1130:A:H5'	2.29	0.61
29:B1:1156:C:H5"	29:B1:1157:G:OP2	2.01	0.61
29:B1:1337:A:H2'	29:B1:1338:C:H6	1.65	0.61
29:B1:1376:C:O4'	29:B1:1407:A:C2	2.54	0.61
29:B1:1539:A:C6	29:B1:1583:A:C8	2.88	0.61
29:B1:1587:A:C2	29:B1:1590:G:C4	2.89	0.61
29:B1:2186:U:H5"	29:B1:2315:G:OP2	1.99	0.61
29:B1:2396:G:O2'	29:B1:2398:A:C4'	2.47	0.61
29:B1:2700:G:OP1	49:BT:17:ARG:CB	2.49	0.61
29:B1:2702:A:H4'	29:B1:2704:A:C8	2.36	0.61
29:B1:2703:A:C3'	29:B1:2704:A:C5'	2.78	0.61
29:B1:2847:A:C4	29:B1:2848:G:C8	2.88	0.61
31:B3:55:U:O2	31:B3:62:C:H5	1.83	0.61
31:B3:95:G:OP2	31:B3:95:G:N2	2.33	0.61
34:BC:274:SER:O	34:BC:275:ARG:CB	2.49	0.61
36:BE:78:ALA:HB1	36:BE:105:ILE:CB	2.30	0.61
36:BE:199:ILE:O	36:BE:201:GLY:CA	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BG:102:VAL:O	38:BG:103:LEU:C	2.42	0.61
40:BI:67:ALA:O	40:BI:68:LEU:C	2.42	0.61
1:C1:33:U:H3'	1:C1:33:U:H6	1.65	0.61
1:C1:66:U:O2'	1:C1:67:A:P	2.57	0.61
1:C1:145:A:C2	1:C1:146:U:H1'	2.35	0.61
1:C1:297:U:C2'	1:C1:298:C:O5'	2.47	0.61
1:C1:755:A:H1'	1:C1:756:A:C8	2.36	0.61
1:C1:984:G:H1	1:C1:1017:U:H3	1.48	0.61
1:C1:986:G:O2'	1:C1:987:G:H8	1.83	0.61
1:C1:1109:G:C5	1:C1:1137:A:N6	2.68	0.61
1:C1:1395:G:H2'	1:C1:1396:U:H5'	1.83	0.61
1:C1:1719:A:O3'	1:C1:1720:G:C8	2.53	0.61
2:CA:79:ARG:O	2:CA:82:GLY:N	2.33	0.61
12:CK:24:LEU:H	12:CK:64:GLY:H	1.46	0.61
13:CL:70:VAL:O	13:CL:74:GLN:C	2.42	0.61
14:CM:27:LYS:C	14:CM:29:GLU:H	2.08	0.61
16:CO:106:THR:O	16:CO:107:SER:C	2.44	0.61
29:D1:90:C:O4'	29:D1:281:G:O2'	2.18	0.61
29:D1:208:C:N4	29:D1:209:A:H62	1.97	0.61
29:D1:278:U:C2	29:D1:279:U:C5	2.89	0.61
29:D1:349:A:H2	31:D3:24:G:C8	2.18	0.61
29:D1:807:A:C5'	29:D1:808:A:OP2	2.45	0.61
29:D1:908:G:C8	29:D1:925:A:N3	2.68	0.61
29:D1:964:G:H4'	54:DY:28:HIS:O	2.01	0.61
29:D1:1076:C:O2	29:D1:1076:C:H2'	2.00	0.61
29:D1:1156:C:C2'	29:D1:1157:G:H5"	2.30	0.61
29:D1:1222:G:H3'	29:D1:1222:G:OP1	1.99	0.61
29:D1:1352:A:P	29:D1:1352:A:C8	2.94	0.61
29:D1:1371:G:H5'	29:D1:1372:C:OP2	2.00	0.61
29:D1:1479:U:C3'	29:D1:1480:G:C5'	2.57	0.61
29:D1:2249:G:H2'	29:D1:2250:G:C1'	2.30	0.61
29:D1:2371:G:H5"	29:D1:2372:A:P	2.41	0.61
29:D1:2581:U:P	29:D1:2581:U:H6	2.23	0.61
29:D1:2581:U:H5"	74:D1:3567:OHX:N1	2.16	0.61
29:D1:2671:A:N6	29:D1:2672:G:O6	2.34	0.61
29:D1:2684:C:C2	29:D1:2685:C:C6	2.87	0.61
29:D1:2717:U:C4	29:D1:2740:A:N1	2.69	0.61
29:D1:2764:C:OP2	29:D1:2764:C:C6	2.54	0.61
29:D1:2850:G:H5"	29:D1:2850:G:C8	2.35	0.61
29:D1:2916:U:H5	29:D1:2935:U:O2'	1.84	0.61
29:D1:3149:G:C4	29:D1:3150:A:C8	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3310:A:N6	29:D1:3311:C:C5	2.68	0.61
29:D1:3333:G:HO2'	29:D1:3369:G:N2	1.97	0.61
31:D3:53:A:C6	31:D3:54:A:C5	2.88	0.61
34:DC:281:LYS:O	34:DC:324:VAL:HA	2.01	0.61
43:DN:58:ILE:CB	43:DN:59:ASN:CB	2.78	0.61
44:DO:159:ARG:C	44:DO:161:ALA:N	2.50	0.61
1:A1:60:U:H2'	1:A1:61:A:H5'	1.81	0.61
1:A1:292:U:H2'	1:A1:293:U:C6	2.35	0.61
1:A1:333:A:C6	1:A1:334:G:C6	2.88	0.61
1:A1:417:A:C4'	1:A1:418:G:O5'	2.49	0.61
1:A1:550:A:H5"	1:A1:551:G:OP1	2.01	0.61
1:A1:611:U:C5'	1:A1:612:U:OP2	2.49	0.61
1:A1:1106:U:O2'	1:A1:1107:G:H5'	2.00	0.61
1:A1:1227:A:H4'	1:A1:1230:A:N6	2.16	0.61
1:A1:1597:A:N7	1:A1:1598:U:C4	2.68	0.61
1:A1:1691:A:C5	1:A1:1692:G:H1'	2.35	0.61
1:A1:1728:A:C4	1:A1:1729:C:C5	2.89	0.61
6:AE:106:GLU:HA	6:AE:111:THR:CB	2.30	0.61
8:AG:67:THR:O	8:AG:71:ILE:CB	2.48	0.61
8:AG:142:GLU:C	8:AG:144:ALA:H	2.07	0.61
10:AI:37:ALA:HA	10:AI:40:ARG:CB	2.30	0.61
12:AK:7:LYS:C	12:AK:9:VAL:H	2.07	0.61
24:Ac:88:UNK:C	24:Ac:90:UNK:N	2.62	0.61
29:B1:26:A:C8	29:B1:27:C:C5	2.88	0.61
29:B1:71:A:C8	29:B1:72:C:C5	2.88	0.61
29:B1:416:A:H61	31:B3:7:U:H3	1.48	0.61
29:B1:514:G:O3'	29:B1:515:C:C6	2.54	0.61
29:B1:564:G:C3'	29:B1:565:U:H6	2.13	0.61
29:B1:595:G:H22	29:B1:609:G:H4'	1.65	0.61
29:B1:628:A:H5"	29:B1:1399:A:C5	2.35	0.61
29:B1:659:G:C6	29:B1:1432:C:N3	2.69	0.61
29:B1:703:G:N1	29:B1:704:U:C2	2.69	0.61
29:B1:837:A:N3	29:B1:837:A:H2'	2.15	0.61
29:B1:951:A:C2	29:B1:1369:A:C2	2.89	0.61
29:B1:1110:U:H2'	29:B1:1111:U:C6	2.35	0.61
29:B1:1233:G:O2'	29:B1:1234:G:C5'	2.48	0.61
29:B1:1376:C:C2	29:B1:1377:G:C8	2.88	0.61
29:B1:1455:U:N3	29:B1:3077:A:OP1	2.33	0.61
29:B1:1704:A:C2	29:B1:1741:A:C5	2.89	0.61
29:B1:2128:C:C4	29:B1:2129:U:C5	2.89	0.61
29:B1:2215:A:N3	29:B1:2216:G:C8	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2342:U:H2'	29:B1:2343:C:H6	1.65	0.61
29:B1:2573:G:N7	74:B1:3558:OHX:N5	2.48	0.61
29:B1:2716:U:H3'	29:B1:2717:U:C5'	2.30	0.61
29:B1:2743:A:C6	29:B1:2751:G:C6	2.88	0.61
29:B1:2766:U:H2'	29:B1:2767:U:H6	1.66	0.61
29:B1:2879:C:C5	29:B1:2880:U:C4	2.89	0.61
29:B1:2895:G:H5'	29:B1:3107:U:O2'	2.01	0.61
29:B1:2945:G:N3	29:B1:2945:G:H5'	2.16	0.61
29:B1:3183:A:H2'	29:B1:3184:A:C8	2.35	0.61
29:B1:3209:A:H2'	29:B1:3210:A:N9	2.15	0.61
29:B1:3373:U:O4	29:B1:3374:U:O4	2.19	0.61
29:B1:3377:G:O4'	74:B1:3450:OHX:N2	2.33	0.61
29:B1:3393:U:H2'	29:B1:3394:U:H6	1.66	0.61
46:BQ:9:THR:H	46:BQ:10:ASN:CA	2.14	0.61
47:BR:66:ARG:C	47:BR:68:ALA:N	2.56	0.61
49:BT:78:LYS:O	49:BT:79:MET:CB	2.48	0.61
56:Ba:28:ARG:O	56:Ba:30:PRO:N	2.34	0.61
1:C1:63:G:H5'	1:C1:170:U:C4	2.35	0.61
1:C1:272:U:C4'	1:C1:273:G:OP2	2.49	0.61
1:C1:520:A:C4	1:C1:521:A:N7	2.68	0.61
1:C1:610:G:N2	1:C1:614:C:N3	2.47	0.61
1:C1:618:U:H2'	1:C1:619:A:C5'	2.30	0.61
1:C1:635:A:C5	1:C1:863:A:N7	2.68	0.61
1:C1:686:C:C2'	1:C1:687:G:C8	2.69	0.61
1:C1:1214:U:H4'	1:C1:1245:G:H21	1.66	0.61
1:C1:1298:U:O5'	1:C1:1298:U:H6	1.83	0.61
1:C1:1481:C:C6	1:C1:1482:C:C2	2.89	0.61
1:C1:1584:G:N1	11:CJ:125:GLU:O	2.33	0.61
1:C1:1645:G:C2'	1:C1:1646:C:O5'	2.48	0.61
1:C1:1656:U:OP2	1:C1:1656:U:H6	1.82	0.61
1:C1:1754:A:O2'	1:C1:1755:A:O5'	2.14	0.61
29:D1:22:G:O6	31:D3:35:C:N4	2.33	0.61
29:D1:26:A:C8	29:D1:27:C:C5	2.87	0.61
29:D1:29:C:H3'	29:D1:29:C:C6	2.35	0.61
29:D1:359:U:C4	29:D1:360:G:C6	2.88	0.61
29:D1:594:U:O4'	29:D1:609:G:N2	2.33	0.61
29:D1:998:A:H2'	29:D1:999:G:H5'	1.83	0.61
29:D1:1047:A:O2'	29:D1:1048:A:H5'	2.01	0.61
29:D1:1289:G:N3	29:D1:1290:A:C8	2.68	0.61
29:D1:1390:A:N7	29:D1:1418:A:N7	2.48	0.61
29:D1:1723:A:H5"	29:D1:1724:U:OP2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1780:G:H2'	29:D1:1781:C:H5	1.65	0.61
29:D1:1907:C:H2'	29:D1:1908:A:C5'	2.29	0.61
29:D1:2185:G:C5	29:D1:2186:U:C5	2.88	0.61
29:D1:2385:G:H5"	74:D1:3547:OHX:N5	2.14	0.61
29:D1:2471:U:H4'	32:DA:23:THR:H	1.64	0.61
29:D1:2520:A:N3	29:D1:2521:U:O2	2.34	0.61
29:D1:2814:G:C2	29:D1:2815:G:C4	2.89	0.61
29:D1:2943:G:N7	29:D1:2944:U:C5	2.69	0.61
29:D1:3201:C:C6	29:D1:3201:C:OP2	2.53	0.61
30:D2:11:A:C2	30:D2:67:G:O2'	2.48	0.61
30:D2:26:C:C2'	30:D2:27:A:O4'	2.48	0.61
31:D3:156:U:H2'	31:D3:157:U:C5	2.35	0.61
33:DB:148:VAL:O	33:DB:149:ARG:CB	2.48	0.61
36:DE:110:LEU:HA	36:DE:111:GLN:CB	2.31	0.61
37:DF:12:SER:H	37:DF:116:LYS:HA	1.63	0.61
1:A1:14:C:H5'	3:AB:164:SER:H	1.65	0.61
1:A1:113:U:H5"	1:A1:114:C:C5'	2.22	0.61
1:A1:378:A:N3	1:A1:378:A:H2'	2.15	0.61
1:A1:385:A:O2'	1:A1:386:G:H5'	2.00	0.61
1:A1:452:A:C2	1:A1:454:U:O5'	2.54	0.61
1:A1:686:C:C2'	1:A1:687:G:H8	2.01	0.61
1:A1:862:A:C4	1:A1:963:A:N6	2.68	0.61
1:A1:1043:A:H2'	1:A1:1044:U:H5	1.65	0.61
1:A1:1150:G:O2'	1:A1:1766:A:C2	2.54	0.61
1:A1:1179:G:N2	1:A1:1461:C:N4	2.47	0.61
1:A1:1349:G:O2'	1:A1:1350:U:OP2	2.19	0.61
1:A1:1437:U:O2	1:A1:1437:U:C2'	2.40	0.61
1:A1:1482:C:O2'	1:A1:1483:A:O5'	2.19	0.61
1:A1:1491:U:C3'	1:A1:1492:A:H2'	2.30	0.61
1:A1:1543:A:C2	1:A1:1544:U:C1'	2.83	0.61
1:A1:1558:U:C6	1:A1:1559:A:H2	2.16	0.61
1:A1:1575:G:C6	1:A1:1576:A:C6	2.88	0.61
1:A1:1584:G:C2	11:AJ:124:PRO:HA	2.35	0.61
1:A1:1602:C:C3'	1:A1:1603:U:H6	2.12	0.61
1:A1:1646:C:O2	1:A1:1646:C:C2'	2.43	0.61
1:A1:1690:G:H2'	1:A1:1691:A:H5"	1.81	0.61
3:AB:118:ALA:HB2	3:AB:124:ALA:N	2.15	0.61
17:AP:127:VAL:CB	17:AP:129:GLY:N	2.63	0.61
25:Ad:100:UNK:O	25:Ad:102:UNK:N	2.33	0.61
28:Ah:20:UNK:O	28:Ah:24:UNK:N	2.33	0.61
29:B1:344:A:C2	29:B1:345:G:H1'	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:576:C:H2'	29:B1:577:C:H5'	1.77	0.61
29:B1:606:C:N4	29:B1:607:A:C6	2.69	0.61
29:B1:607:A:N6	29:B1:608:A:C6	2.69	0.61
29:B1:648:C:C5	29:B1:2375:G:P	2.94	0.61
29:B1:749:C:C2	29:B1:750:G:N7	2.68	0.61
29:B1:980:A:O2'	29:B1:981:U:H4'	2.01	0.61
29:B1:1177:G:O5'	29:B1:1177:G:C8	2.51	0.61
29:B1:1255:C:C2'	29:B1:1256:G:H4'	2.26	0.61
29:B1:1443:G:O2'	29:B1:1444:G:H5'	2.01	0.61
29:B1:1608:C:C2	29:B1:1609:C:C5	2.88	0.61
29:B1:1624:G:N2	29:B1:1822:C:N3	2.49	0.61
29:B1:1627:U:C5	29:B1:1628:C:C4	2.88	0.61
29:B1:1680:G:C4	29:B1:1681:U:C6	2.88	0.61
29:B1:1787:A:C5	29:B1:1788:C:C5	2.88	0.61
29:B1:2119:A:C8	29:B1:2120:A:H2	2.18	0.61
29:B1:2587:U:H2'	29:B1:2588:U:O4'	2.01	0.61
29:B1:2888:U:C4	29:B1:2910:A:N1	2.68	0.61
29:B1:3219:G:C4	29:B1:3257:C:H3'	2.35	0.61
29:B1:3221:C:C2	29:B1:3222:U:C6	2.89	0.61
29:B1:3375:A:H4'	29:B1:3375:A:OP2	2.00	0.61
30:B2:23:A:C2'	30:B2:24:A:C8	2.83	0.61
30:B2:76:A:C4	30:B2:78:U:O4	2.53	0.61
31:B3:74:U:H4'	31:B3:89:A:C2	2.36	0.61
35:BD:101:ALA:O	35:BD:102:PRO:O	2.18	0.61
36:BE:49:TYR:CA	36:BE:50:ARG:CB	2.77	0.61
36:BE:144:VAL:O	36:BE:173:VAL:HA	2.00	0.61
44:BO:29:GLU:O	44:BO:30:TYR:C	2.43	0.61
45:BP:158:ALA:O	45:BP:161:LYS:N	2.33	0.61
47:BR:22:ASP:O	47:BR:23:ASN:C	2.42	0.61
48:BS:64:ARG:HA	48:BS:67:ALA:HB3	1.83	0.61
1:C1:177:U:OP2	1:C1:177:U:C6	2.53	0.61
1:C1:184:C:C5	1:C1:202:A:C2	2.89	0.61
1:C1:217:A:H1'	1:C1:218:A:C5'	2.31	0.61
1:C1:358:U:H5"	1:C1:359:A:P	2.41	0.61
1:C1:426:G:C6	1:C1:427:C:N4	2.68	0.61
1:C1:525:A:OP1	1:C1:526:A:N7	2.33	0.61
1:C1:553:G:C5	1:C1:554:C:C4	2.88	0.61
1:C1:1488:G:O2'	1:C1:1494:C:H1'	2.00	0.61
1:C1:1527:C:H2'	1:C1:1527:C:O2	2.00	0.61
1:C1:1584:G:C2	11:CJ:124:PRO:HA	2.36	0.61
1:C1:1684:U:O2	1:C1:1684:U:C3'	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:50:VAL:O	2:CA:53:THR:N	2.34	0.61
6:CE:100:LYS:HA	6:CE:104:PHE:H	1.64	0.61
13:CL:76:PRO:O	13:CL:81:ILE:N	2.33	0.61
16:CO:8:ALA:HB2	16:CO:75:ILE:CB	2.30	0.61
28:Ch:9:UNK:O	28:Ch:13:UNK:N	2.34	0.61
29:D1:34:A:OP1	29:D1:34:A:H4'	1.99	0.61
29:D1:83:U:C2'	29:D1:84:U:H5'	2.30	0.61
29:D1:162:G:N2	29:D1:163:C:H1'	2.16	0.61
29:D1:284:A:N3	29:D1:306:A:H1'	2.14	0.61
29:D1:287:G:H2'	29:D1:288:C:C6	2.31	0.61
29:D1:520:U:H4'	29:D1:521:A:O5'	1.99	0.61
29:D1:585:A:C5'	29:D1:586:C:OP2	2.46	0.61
29:D1:974:G:C6	29:D1:975:C:N4	2.68	0.61
29:D1:1190:A:N3	29:D1:1190:A:H2'	2.14	0.61
29:D1:1277:C:OP2	29:D1:1277:C:C6	2.54	0.61
29:D1:1314:C:H5"	29:D1:1315:U:OP2	1.99	0.61
29:D1:1764:U:H2'	29:D1:1765:U:O4'	2.00	0.61
29:D1:1916:U:C2	29:D1:1917:C:C5	2.89	0.61
29:D1:2149:A:H62	29:D1:2187:G:N2	1.98	0.61
29:D1:2235:C:N4	74:D1:3473:OHX:N5	2.48	0.61
29:D1:2678:A:H5"	29:D1:2679:A:C2	2.35	0.61
29:D1:2931:C:C5	29:D1:2932:U:H5	2.19	0.61
29:D1:3332:U:C2'	29:D1:3333:G:OP2	2.49	0.61
31:D3:96:A:H5'	31:D3:97:A:OP2	1.99	0.61
33:DB:172:GLY:O	33:DB:174:ARG:N	2.33	0.61
33:DB:209:HIS:O	33:DB:210:PRO:C	2.43	0.61
36:DE:116:ASP:C	36:DE:118:THR:N	2.58	0.61
43:DN:84:LYS:C	43:DN:86:ALA:H	2.09	0.61
54:DY:28:HIS:O	54:DY:30:GLY:N	2.33	0.61
57:Db:120:THR:O	57:Db:122:PRO:N	2.34	0.61
1:A1:542:A:O2'	1:A1:543:C:O5'	2.13	0.61
1:A1:586:G:H2'	1:A1:587:C:C6	2.35	0.61
1:A1:647:G:N1	1:A1:648:G:O6	2.34	0.61
1:A1:649:U:O4	1:A1:685:A:N1	2.34	0.61
1:A1:766:U:H3'	1:A1:768:C:OP2	2.01	0.61
1:A1:948:G:H2'	1:A1:949:C:C6	2.36	0.61
1:A1:1123:C:H2'	1:A1:1124:A:O5'	1.99	0.61
1:A1:1246:C:C4	1:A1:1247:U:C5	2.88	0.61
1:A1:1720:G:C2'	1:A1:1721:A:H5'	2.30	0.61
1:A1:1748:G:H5"	29:B1:2304:C:H5"	1.82	0.61
1:A1:1791:A:H8	1:A1:1791:A:C5'	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1791:A:H8	1:A1:1791:A:H5'	1.64	0.61
5:AD:195:ALA:O	5:AD:196:GLU:C	2.44	0.61
29:B1:25:U:N3	29:B1:331:G:H8	1.98	0.61
29:B1:107:A:C2	29:B1:108:A:N3	2.69	0.61
29:B1:121:A:H5'	29:B1:150:A:C2	2.35	0.61
29:B1:124:U:H2'	29:B1:125:C:C1'	2.30	0.61
29:B1:196:G:N2	29:B1:219:A:H62	1.98	0.61
29:B1:222:A:C6	29:B1:223:U:C4	2.88	0.61
29:B1:386:A:H2'	29:B1:387:A:O5'	2.00	0.61
29:B1:522:A:N7	29:B1:523:A:H8	1.98	0.61
29:B1:528:U:C4	29:B1:564:G:O6	2.53	0.61
29:B1:588:G:C2	29:B1:612:U:C5	2.88	0.61
29:B1:722:G:H1	29:B1:748:U:H3	1.48	0.61
29:B1:1040:A:C6	29:B1:1041:U:C6	2.89	0.61
29:B1:1140:G:C2	29:B1:1141:C:C5	2.88	0.61
29:B1:1445:U:C6	29:B1:1446:A:N7	2.69	0.61
29:B1:1446:A:N1	29:B1:2356:A:H5"	2.15	0.61
29:B1:1725:C:H2'	29:B1:1726:C:H6	1.65	0.61
29:B1:2270:A:C2	29:B1:2271:A:N3	2.69	0.61
29:B1:2279:A:H2	29:B1:2285:C:H41	1.46	0.61
29:B1:2309:A:C2	29:B1:2962:U:O4'	2.54	0.61
29:B1:2326:A:C6	29:B1:2327:U:C5	2.88	0.61
29:B1:2370:G:H2'	29:B1:2371:G:H8	1.66	0.61
29:B1:2506:U:H2'	29:B1:2507:C:C6	2.36	0.61
29:B1:2555:G:H1'	29:B1:2556:C:OP2	2.00	0.61
29:B1:2764:C:OP2	29:B1:2764:C:H6	1.82	0.61
29:B1:2900:A:C2	29:B1:2901:G:C8	2.88	0.61
29:B1:3035:A:C4	29:B1:3036:G:C8	2.89	0.61
29:B1:3060:C:OP1	29:B1:3374:U:H5'	2.01	0.61
29:B1:3180:A:H8	45:BP:114:LYS:CA	2.13	0.61
30:B2:88:G:O6	30:B2:89:G:O6	2.19	0.61
31:B3:40:A:C4	31:B3:41:A:N7	2.69	0.61
31:B3:107:G:C2'	31:B3:108:C:H5'	2.30	0.61
31:B3:111:A:H5"	31:B3:111:A:C8	2.34	0.61
32:BA:95:LYS:HA	32:BA:100:ILE:N	2.15	0.61
38:BG:219:LYS:HA	38:BG:227:GLY:O	2.01	0.61
39:BH:85:ASN:O	39:BH:88:ALA:HB3	2.01	0.61
39:BH:219:ASP:O	39:BH:223:ALA:CB	2.49	0.61
49:BT:114:ALA:O	49:BT:117:ALA:HB3	2.00	0.61
57:Bb:65:PHE:C	57:Bb:67:SER:CB	2.74	0.61
57:Bb:68:PRO:O	57:Bb:69:SER:CB	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:23:G:O2'	1:C1:368:U:OP1	2.19	0.61
1:C1:27:U:O2'	1:C1:28:A:H5'	2.00	0.61
1:C1:118:U:O2	1:C1:299:A:C2	2.53	0.61
1:C1:359:A:H3'	1:C1:359:A:OP1	2.01	0.61
1:C1:859:A:H4'	1:C1:860:U:OP2	2.00	0.61
1:C1:877:G:H5'	1:C1:936:G:N2	2.15	0.61
1:C1:923:A:H2'	1:C1:924:A:C8	2.36	0.61
1:C1:1176:G:C6	1:C1:1177:C:C4	2.88	0.61
1:C1:1363:U:H2'	1:C1:1364:G:N9	2.14	0.61
1:C1:1428:G:O5'	1:C1:1429:G:OP2	2.19	0.61
1:C1:1481:C:H5	1:C1:1482:C:C2	2.18	0.61
1:C1:1634:C:O2	1:C1:1634:C:C2'	2.46	0.61
1:C1:1661:U:H2'	1:C1:1662:G:H8	1.63	0.61
2:CA:130:ALA:C	2:CA:132:ALA:N	2.59	0.61
3:CB:215:PHE:O	3:CB:217:ALA:N	2.33	0.61
6:CE:26:ALA:O	6:CE:29:LYS:N	2.34	0.61
14:CM:13:ASP:C	14:CM:15:ILE:H	2.09	0.61
25:Cd:102:UNK:O	25:Cd:105:UNK:CB	2.49	0.61
29:D1:88:A:H2	29:D1:281:G:N3	1.99	0.61
29:D1:189:G:C2	29:D1:191:U:C4	2.89	0.61
29:D1:425:G:C6	29:D1:635:G:C2	2.89	0.61
29:D1:873:C:H3'	29:D1:874:U:H4'	1.83	0.61
29:D1:891:G:H5'	29:D1:2324:A:N3	2.15	0.61
29:D1:959:C:H41	29:D1:2801:A:H5"	1.64	0.61
29:D1:992:A:N1	29:D1:993:G:C5	2.69	0.61
29:D1:1272:C:H2'	29:D1:1273:A:C4'	2.31	0.61
29:D1:1390:A:C4	29:D1:1418:A:C6	2.89	0.61
29:D1:1463:U:H2'	29:D1:1464:G:H8	1.65	0.61
29:D1:1526:U:O4'	29:D1:1594:A:C2	2.54	0.61
29:D1:1713:G:C8	29:D1:1714:A:C2	2.88	0.61
29:D1:2269:U:H2'	29:D1:2270:A:H5'	1.83	0.61
29:D1:2280:A:C5	29:D1:2282:U:C5	2.88	0.61
29:D1:2339:C:H5	29:D1:3093:C:OP1	1.83	0.61
29:D1:2502:A:N3	29:D1:2502:A:H2'	2.15	0.61
29:D1:2640:A:N9	29:D1:2641:U:H5	1.98	0.61
29:D1:2673:A:H2	29:D1:2674:A:C6	2.19	0.61
29:D1:2673:A:C2	29:D1:2674:A:C5	2.88	0.61
29:D1:2912:G:C6	29:D1:2913:C:C2	2.89	0.61
29:D1:2932:U:H5"	50:DU:41:GLY:HA2	1.83	0.61
29:D1:3010:U:O4'	34:DC:15:GLY:HA3	2.01	0.61
29:D1:3095:U:C2'	29:D1:3096:C:O5'	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3180:A:OP1	29:D1:3180:A:C4'	2.48	0.61
29:D1:3180:A:OP1	29:D1:3180:A:H4'	1.99	0.61
29:D1:3320:A:C5	29:D1:3321:C:C4	2.89	0.61
31:D3:78:G:H2'	31:D3:79:A:C8	2.36	0.61
37:DF:157:GLN:C	37:DF:159:LEU:H	2.08	0.61
42:DK:85:LYS:O	42:DK:87:LYS:N	2.34	0.61
73:DM:94:THR:O	73:DM:95:GLU:C	2.43	0.61
43:DN:107:GLU:O	43:DN:109:ARG:N	2.32	0.61
45:DP:95:GLY:O	45:DP:97:ALA:C	2.44	0.61
1:A1:166:C:H2'	1:A1:167:U:H5"	1.83	0.61
1:A1:225:A:C4	1:A1:226:A:C8	2.88	0.61
1:A1:330:G:N3	1:A1:331:A:C8	2.69	0.61
1:A1:381:C:C2	1:A1:382:C:C5	2.88	0.61
1:A1:463:U:H2'	1:A1:464:A:O4'	2.01	0.61
1:A1:553:G:N2	1:A1:572:C:N3	2.49	0.61
1:A1:609:U:C5'	1:A1:610:G:C5	2.80	0.61
1:A1:750:U:O5'	1:A1:750:U:H6	1.84	0.61
1:A1:824:G:H4'	1:A1:825:U:C5'	2.17	0.61
1:A1:899:G:N2	1:A1:915:A:C2	2.67	0.61
1:A1:1129:U:C5	1:A1:1130:G:N7	2.68	0.61
1:A1:1310:U:O5'	1:A1:1310:U:H6	1.84	0.61
1:A1:1538:U:H5	1:A1:1540:G:C8	2.19	0.61
1:A1:1579:U:H2'	1:A1:1580:C:C6	2.35	0.61
1:A1:1584:G:C8	11:AJ:123:ARG:N	2.59	0.61
1:A1:1614:A:H2'	1:A1:1614:A:N3	2.16	0.61
1:A1:1633:A:H1'	1:A1:1634:C:OP2	2.01	0.61
1:A1:1796:C:OP2	1:A1:1797:A:C8	2.54	0.61
3:AB:142:GLY:HA2	3:AB:147:ASN:CB	2.30	0.61
8:AG:129:TYR:HA	8:AG:133:ALA:H	1.65	0.61
16:AO:106:THR:O	16:AO:107:SER:C	2.43	0.61
20:AS:41:GLN:N	74:AS:101:OHX:N4	2.49	0.61
29:B1:22:G:H5'	31:B3:104:A:O2'	2.00	0.61
29:B1:51:A:C2'	29:B1:52:A:H5'	2.30	0.61
29:B1:60:A:N1	29:B1:328:U:O2	2.34	0.61
29:B1:611:A:C5'	29:B1:612:U:OP1	2.48	0.61
29:B1:731:U:H5"	47:BR:136:ASN:H	1.65	0.61
29:B1:1281:G:C6	29:B1:1282:G:C5	2.88	0.61
29:B1:1369:A:H2'	29:B1:1370:G:O4'	2.01	0.61
29:B1:1422:G:C4	29:B1:1423:C:C5	2.88	0.61
29:B1:1469:C:O2	29:B1:1509:A:C2	2.54	0.61
29:B1:1594:A:H1'	29:B1:1615:C:H1'	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1631:C:H5'	29:B1:1813:A:H2	1.64	0.61
29:B1:1812:G:H4'	29:B1:1812:G:OP1	2.01	0.61
29:B1:1916:U:H2'	29:B1:1917:C:C6	2.35	0.61
29:B1:2118:C:H6	29:B1:2118:C:O5'	1.84	0.61
29:B1:2219:A:H2'	29:B1:2220:A:H5'	1.83	0.61
29:B1:2375:G:O2'	29:B1:2377:G:OP2	2.17	0.61
29:B1:2390:A:C4'	29:B1:3307:A:H2	2.10	0.61
29:B1:2636:A:C5'	29:B1:2637:A:H5'	2.29	0.61
29:B1:3104:U:O2	29:B1:3129:A:N7	2.34	0.61
29:B1:3142:A:H1'	29:B1:3144:G:C8	2.36	0.61
29:B1:3320:A:O2'	29:B1:3321:C:O4'	2.14	0.61
30:B2:37:G:N2	30:B2:45:A:N6	2.49	0.61
30:B2:94:C:O2'	30:B2:95:A:H5'	2.00	0.61
31:B3:67:U:C3'	31:B3:68:G:H8	2.14	0.61
41:BJ:121:LYS:O	41:BJ:122:PRO:C	2.43	0.61
46:BQ:47:TYR:O	46:BQ:49:GLU:N	2.34	0.61
61:Bf:38:GLN:O	61:Bf:39:GLY:C	2.43	0.61
62:Bg:17:ARG:O	62:Bg:18:TYR:CB	2.48	0.61
1:C1:33:U:O2	1:C1:468:A:C2	2.53	0.61
1:C1:333:A:C6	1:C1:334:G:C6	2.88	0.61
1:C1:751:G:O2'	1:C1:752:A:H5'	2.01	0.61
1:C1:894:U:H1'	1:C1:919:A:C2	2.36	0.61
1:C1:920:U:OP2	1:C1:920:U:H6	1.84	0.61
1:C1:1160:A:C2'	1:C1:1161:C:H6	2.12	0.61
1:C1:1321:A:C5	2:CA:105:GLY:HA3	2.36	0.61
1:C1:1327:C:O3'	4:CC:158:ILE:CB	2.48	0.61
1:C1:1392:U:H5"	1:C1:1392:U:H6	1.65	0.61
1:C1:1523:G:OP2	1:C1:1524:A:OP2	2.18	0.61
1:C1:1555:A:H5"	1:C1:1556:A:OP2	2.01	0.61
1:C1:1614:A:H2'	1:C1:1614:A:N3	2.15	0.61
1:C1:1634:C:C6	1:C1:1634:C:OP1	2.54	0.61
3:CB:128:GLY:O	3:CB:131:ILE:N	2.29	0.61
5:CD:56:ALA:O	5:CD:58:LEU:N	2.34	0.61
5:CD:218:GLU:C	5:CD:220:VAL:H	2.09	0.61
8:CG:127:ARG:C	8:CG:129:TYR:H	2.08	0.61
9:CH:39:ILE:O	9:CH:40:ALA:HB2	1.99	0.61
29:D1:51:A:O2'	29:D1:52:A:H5'	2.00	0.61
29:D1:154:U:C4'	29:D1:155:G:OP2	2.43	0.61
29:D1:423:A:N6	29:D1:637:C:OP1	2.32	0.61
29:D1:515:C:H2'	29:D1:516:A:C4'	2.27	0.61
29:D1:807:A:H3'	29:D1:807:A:H8	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1139:G:C4	29:D1:1140:G:C8	2.89	0.61
29:D1:1158:A:O2'	29:D1:1330:A:C2	2.53	0.61
29:D1:1201:C:H2'	29:D1:1202:A:C5'	2.30	0.61
29:D1:1279:C:O2'	29:D1:1280:C:O5'	2.16	0.61
29:D1:1337:A:C4	29:D1:1338:C:C5	2.89	0.61
29:D1:1785:U:HO2'	29:D1:1786:G:H8	1.45	0.61
29:D1:2179:C:O2	33:DB:129:ALA:HB3	2.01	0.61
29:D1:2257:C:H5'	29:D1:2258:U:H5	1.66	0.61
29:D1:2259:A:H3'	29:D1:2260:U:C5	2.36	0.61
29:D1:2315:G:C2	29:D1:2316:G:C8	2.89	0.61
29:D1:2546:C:N4	29:D1:2547:A:H62	1.99	0.61
29:D1:2651:G:HO2'	29:D1:2796:G:H1	1.48	0.61
29:D1:3040:A:O5'	50:DU:11:PHE:HA	2.01	0.61
29:D1:3157:U:H6	29:D1:3157:U:P	2.24	0.61
29:D1:3204:C:C2'	29:D1:3205:G:OP1	2.48	0.61
29:D1:3218:A:H4'	29:D1:3220:G:C8	2.36	0.61
29:D1:3264:G:H2'	29:D1:3265:C:C5'	2.28	0.61
29:D1:3377:G:H5'	74:D1:3452:OHX:N2	2.15	0.61
30:D2:11:A:C4'	30:D2:13:A:H2'	2.31	0.61
33:DB:81:GLY:O	62:Dg:64:VAL:HA	2.00	0.61
34:DC:68:HIS:O	34:DC:69:LYS:C	2.43	0.61
38:DG:29:GLU:O	38:DG:32:ALA:HB3	2.00	0.61
41:DJ:91:VAL:O	41:DJ:92:HIS:CB	2.49	0.61
42:DK:50:ALA:CB	42:DK:63:GLU:H	2.08	0.61
43:DN:9:ALA:O	43:DN:10:SER:CB	2.49	0.61
47:DR:51:ALA:O	47:DR:52:LEU:C	2.44	0.61
47:DR:131:ALA:O	47:DR:133:LYS:N	2.34	0.61
59:Dd:27:PHE:O	59:Dd:29:VAL:N	2.33	0.61
1:A1:89:G:H2'	1:A1:90:C:H6	1.64	0.61
1:A1:127:G:C5	1:A1:179:A:C5	2.89	0.61
1:A1:219:A:N6	1:A1:843:U:H1'	2.16	0.61
1:A1:245:U:C2	1:A1:247:A:OP2	2.54	0.61
1:A1:262:U:H2'	1:A1:263:C:C6	2.36	0.61
1:A1:401:A:O2'	1:A1:402:C:O2'	2.19	0.61
1:A1:542:A:H2	1:A1:544:A:H3'	1.66	0.61
1:A1:986:G:O2'	1:A1:987:G:H8	1.84	0.61
1:A1:1075:C:C4	1:A1:1076:A:N1	2.69	0.61
1:A1:1254:U:O2'	1:A1:1255:G:P	2.58	0.61
1:A1:1336:A:C6	1:A1:1416:G:C6	2.88	0.61
1:A1:1466:G:C6	1:A1:1467:C:C4	2.88	0.61
1:A1:1634:C:C6	1:A1:1634:C:O5'	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1757:G:C2’	1:A1:1758:U:O5’	2.49	0.61
13:AL:71:GLN:O	13:AL:72:ILE:C	2.41	0.61
14:AM:27:LYS:C	14:AM:29:GLU:H	2.08	0.61
15:AN:12:GLN:O	15:AN:13:GLU:C	2.43	0.61
29:B1:237:G:C2’	29:B1:238:A:H5’	2.31	0.61
29:B1:514:G:O2’	37:BF:145:LEU:O	2.19	0.61
29:B1:516:A:P	29:B1:517:G:OP1	2.59	0.61
29:B1:592:A:H3’	29:B1:593:C:C4’	2.30	0.61
29:B1:594:U:C4	29:B1:595:G:C6	2.89	0.61
29:B1:636:C:H5	29:B1:2378:C:O4’	1.81	0.61
29:B1:783:A:N7	74:B1:3483:OHX:N1	2.49	0.61
29:B1:863:C:H2’	29:B1:864:G:C5’	2.31	0.61
29:B1:934:G:C5	29:B1:935:U:C5	2.89	0.61
29:B1:1201:C:H2’	29:B1:1202:A:C5’	2.31	0.61
29:B1:1390:A:C4	29:B1:1418:A:C6	2.89	0.61
29:B1:1453:A:C2	29:B1:1878:G:N2	2.69	0.61
29:B1:1465:A:N6	29:B1:1466:G:N1	2.49	0.61
29:B1:1626:U:H2’	29:B1:1627:U:C1’	2.30	0.61
29:B1:2164:A:C2	29:B1:2171:G:C4	2.88	0.61
29:B1:2219:A:C2’	29:B1:2220:A:H5’	2.31	0.61
29:B1:2277:C:H5”	29:B1:2317:A:C4’	2.21	0.61
29:B1:2674:A:N3	29:B1:2674:A:H2’	2.16	0.61
29:B1:3058:U:O2’	29:B1:3059:G:P	2.59	0.61
29:B1:3110:C:O2’	29:B1:3111:U:H5’	2.01	0.61
29:B1:3176:G:H2’	29:B1:3177:G:H5’	1.82	0.61
29:B1:3314:A:C5’	34:BC:119:TYR:H	2.10	0.61
30:B2:2:G:N3	30:B2:3:U:C6	2.69	0.61
31:B3:128:U:H5’	31:B3:129:C:OP2	2.01	0.61
63:Bh:7:UNK:O	63:Bh:10:UNK:CB	2.48	0.61
68:Bn:10:UNK:O	68:Bn:14:UNK:CB	2.49	0.61
1:C1:61:A:H4’	1:C1:62:A:OP2	1.97	0.61
1:C1:238:U:O5’	1:C1:239:C:H3’	2.01	0.61
1:C1:364:G:C2	1:C1:381:C:C4	2.88	0.61
1:C1:390:G:N2	1:C1:407:A:H61	1.98	0.61
1:C1:416:A:C4’	1:C1:417:A:OP2	2.31	0.61
1:C1:733:A:C2	1:C1:734:A:C5	2.89	0.61
1:C1:955:A:C2	1:C1:956:C:C2	2.89	0.61
1:C1:1241:G:O3’	1:C1:1242:A:H8	1.84	0.61
1:C1:1309:C:H2’	1:C1:1310:U:O5’	2.00	0.61
1:C1:1320:U:O2	1:C1:1322:A:H5’	1.99	0.61
1:C1:1349:G:C4’	1:C1:1350:U:H5’	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1467:C:H2'	1:C1:1468:U:H6	1.65	0.61
1:C1:1623:C:H2'	1:C1:1623:C:O2	2.00	0.61
1:C1:1779:U:O2'	1:C1:1780:G:O5'	2.17	0.61
3:CB:142:GLY:HA2	3:CB:147:ASN:CB	2.31	0.61
14:CM:60:SER:O	14:CM:62:ALA:N	2.34	0.61
29:D1:118:U:N3	29:D1:150:A:N6	2.28	0.61
29:D1:312:C:O2'	29:D1:313:A:H5'	2.01	0.61
29:D1:392:G:C2	29:D1:393:U:H6	2.17	0.61
29:D1:607:A:C2	29:D1:608:A:N9	2.69	0.61
29:D1:986:U:O2'	29:D1:987:U:O5'	2.19	0.61
29:D1:1237:G:C2	29:D1:1252:A:C2	2.89	0.61
29:D1:1449:A:H4'	29:D1:2983:C:C2	2.35	0.61
29:D1:1715:A:C3'	29:D1:1716:U:H5"	2.27	0.61
29:D1:1899:G:N2	29:D1:2334:U:C6	2.69	0.61
29:D1:2186:U:H2'	29:D1:2187:G:H8	1.65	0.61
29:D1:2380:U:C2	29:D1:2381:G:C8	2.89	0.61
29:D1:2561:A:N6	29:D1:2579:G:C4	2.69	0.61
29:D1:3260:G:O6	29:D1:3261:C:H1'	2.00	0.61
29:D1:3305:A:C4	29:D1:3306:U:C2	2.88	0.61
29:D1:3374:U:O2'	29:D1:3375:A:O5'	2.18	0.61
30:D2:49:G:OP2	30:D2:49:G:C4	2.54	0.61
30:D2:74:C:C5	30:D2:75:G:C8	2.89	0.61
31:D3:69:U:O3'	31:D3:70:G:H4'	1.98	0.61
34:DC:133:TYR:C	34:DC:135:ALA:N	2.58	0.61
36:DE:147:ASP:O	36:DE:148:ILE:C	2.44	0.61
73:DM:42:ARG:O	73:DM:45:LEU:N	2.34	0.61
46:DQ:30:ARG:O	46:DQ:32:THR:N	2.33	0.61
59:Dd:28:HIS:O	59:Dd:31:LYS:N	2.34	0.61
1:A1:746:A:H2'	1:A1:747:C:O4'	2.01	0.60
1:A1:766:U:H5	1:A1:769:A:OP2	1.84	0.60
1:A1:1391:A:N1	1:A1:1409:G:N2	2.49	0.60
1:A1:1501:C:H2'	1:A1:1502:G:H5'	1.83	0.60
1:A1:1558:U:H3'	1:A1:1559:A:C5'	2.31	0.60
1:A1:1712:A:H2'	1:A1:1713:G:H8	1.64	0.60
3:AB:163:GLY:O	3:AB:165:VAL:N	2.34	0.60
4:AC:74:GLN:O	4:AC:75:LYS:C	2.44	0.60
29:B1:583:G:C6	29:B1:584:G:N7	2.69	0.60
29:B1:592:A:C1'	29:B1:593:C:O4'	2.49	0.60
29:B1:722:G:C2	29:B1:748:U:C2	2.88	0.60
29:B1:1570:U:H4'	31:B3:127:U:O4	2.00	0.60
29:B1:1607:U:O2'	29:B1:1608:C:P	2.58	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2116:G:H5'	29:B1:2116:G:N3	2.16	0.60
29:B1:2352:A:C6	29:B1:2353:G:C6	2.89	0.60
29:B1:2646:C:O2'	29:B1:2647:A:H5'	2.00	0.60
29:B1:2725:U:H6	29:B1:2725:U:H3'	1.64	0.60
29:B1:2830:G:H1	29:B1:2858:U:H3	1.48	0.60
29:B1:3050:U:C5	29:B1:3051:U:C5	2.89	0.60
29:B1:3069:G:C2	29:B1:3070:A:C8	2.89	0.60
29:B1:3217:C:H4'	29:B1:3218:A:OP2	2.00	0.60
29:B1:3386:G:H8	29:B1:3386:G:H3'	1.64	0.60
34:BC:60:LEU:C	34:BC:62:ARG:H	2.08	0.60
34:BC:294:GLY:CA	34:BC:295:ALA:C	2.74	0.60
39:BH:168:ALA:C	39:BH:170:CYS:H	2.09	0.60
40:BI:87:LYS:HA	40:BI:147:SER:CB	2.31	0.60
41:BJ:12:GLN:O	41:BJ:14:ASN:N	2.34	0.60
41:BJ:61:SER:HA	41:BJ:126:ALA:CB	2.31	0.60
44:BO:155:VAL:O	44:BO:157:LYS:N	2.34	0.60
59:Bd:28:HIS:O	59:Bd:29:VAL:C	2.43	0.60
1:C1:10:G:C6	1:C1:11:A:C6	2.89	0.60
1:C1:138:A:C6	1:C1:142:G:H1'	2.36	0.60
1:C1:534:A:C3'	1:C1:535:A:H8	2.14	0.60
1:C1:887:A:C4	1:C1:888:U:C5	2.89	0.60
1:C1:1116:A:C6	1:C1:1117:U:C4	2.89	0.60
1:C1:1390:U:H2'	1:C1:1391:A:OP2	2.01	0.60
1:C1:1541:G:C5	1:C1:1542:G:C6	2.88	0.60
1:C1:1558:U:C5	1:C1:1559:A:H5"	2.36	0.60
1:C1:1753:A:H2'	1:C1:1753:A:N3	2.16	0.60
2:CA:8:ASP:C	2:CA:10:THR:N	2.56	0.60
2:CA:182:LEU:O	2:CA:187:ALA:HA	1.99	0.60
6:CE:99:LEU:O	6:CE:101:VAL:N	2.33	0.60
7:CF:95:PRO:O	7:CF:96:LYS:C	2.44	0.60
13:CL:71:GLN:HA	13:CL:75:ASN:CB	2.31	0.60
29:D1:237:G:C2'	29:D1:238:A:H5'	2.30	0.60
29:D1:607:A:N1	29:D1:608:A:C4	2.69	0.60
29:D1:645:A:N7	29:D1:649:A:C6	2.69	0.60
29:D1:699:A:C8	29:D1:699:A:H3'	2.36	0.60
29:D1:1077:U:H3	29:D1:1083:G:N2	1.97	0.60
29:D1:1199:C:C4	74:D1:3574:OHX:N3	2.69	0.60
29:D1:2178:A:OP1	33:DB:126:LEU:HA	2.01	0.60
29:D1:2314:U:O2	29:D1:2314:U:O4'	2.18	0.60
29:D1:2681:U:O2'	29:D1:2682:C:C5'	2.48	0.60
29:D1:2868:U:C5	29:D1:2869:U:H5	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2986:U:C2'	29:D1:2987:A:H5'	2.31	0.60
29:D1:3282:U:C2	29:D1:3283:U:C5	2.88	0.60
29:D1:3377:G:C1'	29:D1:3378:C:H5'	2.31	0.60
30:D2:13:A:C2	30:D2:13:A:P	2.94	0.60
30:D2:77:G:N3	30:D2:101:G:C6	2.69	0.60
34:DC:27:ALA:CB	34:DC:219:ALA:HA	2.31	0.60
36:DE:234:ASP:O	36:DE:236:LEU:N	2.34	0.60
36:DE:273:ARG:C	36:DE:275:THR:N	2.59	0.60
39:DH:81:THR:O	39:DH:82:LEU:C	2.44	0.60
72:DL:62:LEU:HA	72:DL:70:ALA:C	2.25	0.60
43:DN:24:LYS:HA	43:DN:31:LYS:N	2.15	0.60
46:DQ:50:GLN:O	46:DQ:54:HIS:N	2.33	0.60
50:DU:39:VAL:O	50:DU:40:LYS:C	2.42	0.60
56:Da:13:THR:O	56:Da:14:ILE:C	2.44	0.60
1:A1:34:G:C5	1:A1:475:A:N6	2.69	0.60
1:A1:426:G:N1	1:A1:427:C:C4	2.70	0.60
1:A1:564:G:O2'	1:A1:577:G:H4'	2.01	0.60
1:A1:897:C:N3	1:A1:914:G:C2	2.69	0.60
1:A1:1005:A:H2'	1:A1:1006:C:O4'	2.00	0.60
1:A1:1118:G:C6	1:A1:1119:G:C6	2.89	0.60
1:A1:1348:A:C2	1:A1:1378:U:H6	2.19	0.60
1:A1:1424:A:O2'	3:AB:92:ALA:HB3	2.00	0.60
1:A1:1454:G:N2	1:A1:1455:G:H1'	2.16	0.60
1:A1:1683:C:O5'	1:A1:1684:U:OP1	2.18	0.60
1:A1:1725:U:H6	1:A1:1725:U:O5'	1.83	0.60
1:A1:1739:C:H2'	1:A1:1740:A:C8	2.37	0.60
3:AB:133:LYS:C	3:AB:135:SER:H	2.09	0.60
8:AG:83:GLU:O	8:AG:84:ILE:CB	2.49	0.60
8:AG:127:ARG:O	8:AG:129:TYR:N	2.34	0.60
16:AO:80:ASN:O	16:AO:123:GLY:O	2.19	0.60
26:Ae:18:UNK:O	26:Ae:20:UNK:N	2.34	0.60
29:B1:146:U:C4	29:B1:147:U:C2	2.88	0.60
29:B1:331:G:C2	29:B1:332:C:C4	2.89	0.60
29:B1:501:A:C2	29:B1:613:G:C2	2.88	0.60
29:B1:515:C:C4	29:B1:516:A:C8	2.89	0.60
29:B1:519:A:H62	37:BF:30:LEU:CA	2.14	0.60
29:B1:702:C:C2	29:B1:703:G:C8	2.88	0.60
29:B1:726:G:C5	29:B1:727:G:N1	2.69	0.60
29:B1:1415:U:C2	29:B1:1416:C:H5	2.18	0.60
29:B1:1416:C:O2	29:B1:1416:C:C2'	2.46	0.60
29:B1:1453:A:H2'	29:B1:1878:G:N1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1514:G:N7	29:B1:1841:A:C2	2.69	0.60
29:B1:1525:G:C8	29:B1:1829:G:C5	2.89	0.60
29:B1:1837:U:O2'	29:B1:1842:A:C8	2.53	0.60
29:B1:2467:G:N2	29:B1:2488:A:H62	1.98	0.60
29:B1:2842:U:O2	29:B1:2842:U:C2'	2.49	0.60
29:B1:2859:U:O2	74:B1:3417:OHX:N4	2.34	0.60
29:B1:2904:U:O2	29:B1:2904:U:C3'	2.49	0.60
29:B1:2914:G:C4	29:B1:2915:U:C6	2.89	0.60
29:B1:2934:A:C5'	29:B1:2935:U:OP2	2.50	0.60
29:B1:3062:G:C6	29:B1:3063:C:C4	2.89	0.60
29:B1:3141:A:O4'	29:B1:3143:C:H2'	2.01	0.60
29:B1:3161:C:C6	29:B1:3161:C:OP2	2.54	0.60
29:B1:3218:A:HO2'	29:B1:3219:G:P	2.21	0.60
29:B1:3273:A:C2	29:B1:3274:A:C4	2.90	0.60
30:B2:25:G:N1	30:B2:26:C:C4	2.69	0.60
30:B2:69:C:H1'	30:B2:110:G:H22	1.66	0.60
31:B3:13:A:H2'	31:B3:14:C:C6	2.35	0.60
31:B3:43:A:H2'	31:B3:44:A:C8	2.36	0.60
31:B3:67:U:C3'	31:B3:68:G:C8	2.83	0.60
41:BJ:159:PHE:O	41:BJ:161:GLY:N	2.34	0.60
45:BP:47:PHE:O	45:BP:51:LYS:CB	2.49	0.60
53:BX:24:SER:O	53:BX:26:GLN:N	2.34	0.60
1:C1:32:U:O2	1:C1:595:G:C2	2.54	0.60
1:C1:34:G:H2'	1:C1:35:U:H6	1.66	0.60
1:C1:44:U:O5'	1:C1:45:U:C5	2.50	0.60
1:C1:340:U:C3'	1:C1:341:A:H8	2.11	0.60
1:C1:717:C:H1'	1:C1:718:U:P	2.41	0.60
1:C1:1368:G:H5"	1:C1:1369:U:OP2	2.02	0.60
1:C1:1393:C:H2'	1:C1:1394:G:C8	2.36	0.60
1:C1:1506:G:O2'	1:C1:1507:G:H5'	2.01	0.60
1:C1:1560:U:O5'	1:C1:1560:U:C6	2.55	0.60
1:C1:1562:G:H2'	1:C1:1563:C:C6	2.36	0.60
1:C1:1657:U:C2	74:C1:1955:OHX:N1	2.70	0.60
2:CA:67:ILE:O	2:CA:69:ASN:N	2.34	0.60
2:CA:129:ASP:O	2:CA:132:ALA:HB3	2.02	0.60
2:CA:211:GLU:O	2:CA:215:ALA:HB2	2.00	0.60
6:CE:73:GLY:C	6:CE:75:ALA:N	2.58	0.60
6:CE:143:ILE:C	6:CE:145:SER:H	2.08	0.60
15:CN:20:ILE:CB	15:CN:21:LYS:HA	2.29	0.60
29:D1:196:G:N1	29:D1:199:A:OP2	2.34	0.60
29:D1:288:C:H5"	44:DO:171:SER:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:379:C:H2'	29:D1:380:U:C6	2.36	0.60
29:D1:431:U:H6	29:D1:431:U:C5'	2.15	0.60
29:D1:722:G:H1	29:D1:748:U:H3	1.49	0.60
29:D1:784:A:C2'	29:D1:785:G:H8	2.11	0.60
29:D1:891:G:C5	29:D1:892:U:C4	2.89	0.60
29:D1:1059:G:H2'	29:D1:1059:G:N3	2.16	0.60
29:D1:1150:A:OP1	29:D1:1151:U:O4	2.18	0.60
29:D1:1158:A:H3'	29:D1:1159:A:H5"	1.83	0.60
29:D1:1273:A:C8	29:D1:1274:A:N7	2.68	0.60
29:D1:1311:G:H2'	29:D1:1312:C:O5'	2.00	0.60
29:D1:1338:C:H2'	29:D1:1338:C:O2	2.00	0.60
29:D1:1528:G:C6	29:D1:1833:G:C6	2.88	0.60
29:D1:1739:U:H2'	29:D1:1740:U:O4'	2.00	0.60
29:D1:1868:G:C5	29:D1:1869:C:C5	2.89	0.60
29:D1:2185:G:N3	29:D1:2185:G:H2'	2.16	0.60
29:D1:2554:A:H4'	29:D1:2555:G:O5'	2.01	0.60
29:D1:2961:G:C6	29:D1:2962:U:C4	2.89	0.60
29:D1:3003:G:C2	29:D1:3004:C:C4	2.88	0.60
29:D1:3179:U:OP2	29:D1:3179:U:H2'	2.00	0.60
29:D1:3252:G:H2'	29:D1:3253:G:C8	2.36	0.60
29:D1:3310:A:C2	29:D1:3311:C:O4'	2.54	0.60
29:D1:3386:G:C8	29:D1:3386:G:C3'	2.84	0.60
32:DA:68:PHE:H	32:DA:112:ALA:HB2	1.66	0.60
35:DD:174:ALA:O	35:DD:175:HIS:C	2.44	0.60
57:Db:42:VAL:O	57:Db:45:ARG:N	2.33	0.60
57:Db:114:ALA:O	57:Db:116:GLY:N	2.34	0.60
1:A1:635:A:C2	1:A1:863:A:C8	2.88	0.60
1:A1:901:G:OP1	1:A1:901:G:H4'	1.99	0.60
1:A1:1412:G:H4'	1:A1:1413:U:OP1	2.00	0.60
1:A1:1428:G:H2'	1:A1:1428:G:N3	2.16	0.60
1:A1:1495:C:O5'	1:A1:1495:C:H6	1.85	0.60
1:A1:1575:G:OP1	1:A1:1575:G:C4'	2.49	0.60
1:A1:1684:U:O2	1:A1:1684:U:C3'	2.49	0.60
1:A1:1781:A:C2	1:A1:1782:A:C2	2.89	0.60
6:AE:119:ALA:HB1	6:AE:125:ALA:HB2	1.83	0.60
15:AN:28:SER:CB	15:AN:112:VAL:HA	2.30	0.60
29:B1:11:A:O4'	29:B1:1557:A:N6	2.34	0.60
29:B1:25:U:H2'	29:B1:26:A:C8	2.36	0.60
29:B1:149:U:N3	44:BO:55:ALA:HA	2.17	0.60
29:B1:195:U:C4'	29:B1:1391:C:H5	2.13	0.60
29:B1:351:A:C8	31:B3:53:A:H1'	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:379:C:H6	29:B1:379:C:C5'	2.12	0.60
29:B1:406:G:C1'	31:B3:16:G:H22	2.07	0.60
29:B1:435:C:H2'	29:B1:436:A:C8	2.35	0.60
29:B1:704:U:C6	29:B1:704:U:C3'	2.84	0.60
29:B1:717:C:C5	29:B1:721:G:OP2	2.54	0.60
29:B1:743:C:H6	29:B1:743:C:H3'	1.66	0.60
29:B1:924:G:C8	29:B1:2809:C:O2	2.54	0.60
29:B1:974:G:C5	29:B1:975:C:C5	2.89	0.60
29:B1:1242:G:OP2	29:B1:1242:G:H4'	2.00	0.60
29:B1:1249:G:N3	29:B1:1249:G:H2'	2.17	0.60
29:B1:1454:A:O4'	29:B1:1878:G:C2	2.54	0.60
29:B1:1739:U:H2'	29:B1:1740:U:O4'	2.01	0.60
29:B1:2167:A:C2'	29:B1:2168:A:C8	2.84	0.60
29:B1:2556:C:C4	29:B1:2557:A:C2	2.88	0.60
29:B1:2689:A:O2'	29:B1:2702:A:C6	2.54	0.60
29:B1:3013:U:C6	29:B1:3013:U:H5'	2.36	0.60
29:B1:3142:A:H3'	29:B1:3143:C:H5'	1.83	0.60
29:B1:3203:U:H2'	29:B1:3204:C:C6	2.37	0.60
29:B1:3217:C:H2'	29:B1:3217:C:O2	2.00	0.60
34:BC:128:LYS:CB	34:BC:129:ALA:HA	2.31	0.60
35:BD:252:GLU:C	35:BD:254:ALA:N	2.57	0.60
42:BK:143:ARG:O	42:BK:144:CYS:C	2.44	0.60
43:BN:84:LYS:C	43:BN:86:ALA:H	2.09	0.60
43:BN:89:ALA:O	43:BN:93:LYS:N	2.34	0.60
44:BO:74:PRO:O	44:BO:75:VAL:CB	2.48	0.60
49:BT:14:MET:O	49:BT:16:GLN:N	2.31	0.60
49:BT:31:LEU:O	49:BT:32:LYS:O	2.19	0.60
57:Bb:20:HIS:O	57:Bb:21:HIS:C	2.44	0.60
59:Bd:8:PHE:O	59:Bd:10:LYS:N	2.34	0.60
1:C1:55:A:H3'	1:C1:56:U:C5'	2.31	0.60
1:C1:173:A:C6	1:C1:174:U:C5	2.88	0.60
1:C1:225:A:N6	1:C1:837:G:N1	2.50	0.60
1:C1:407:A:C4	1:C1:408:C:C5	2.89	0.60
1:C1:418:G:N2	1:C1:419:G:C4	2.69	0.60
1:C1:461:G:H2'	1:C1:462:G:C8	2.35	0.60
1:C1:473:A:N6	1:C1:474:A:C2	2.69	0.60
1:C1:554:C:O3'	1:C1:555:A:H2'	2.00	0.60
1:C1:623:A:C2	1:C1:1105:C:H4'	2.36	0.60
1:C1:862:A:H4'	1:C1:863:A:O5'	2.01	0.60
1:C1:925:G:H5'	1:C1:987:G:OP1	2.00	0.60
1:C1:955:A:H2'	1:C1:956:C:C6	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1321:A:N6	2:CA:105:GLY:HA3	2.16	0.60
1:C1:1559:A:C1'	13:CL:135:GLY:HA2	2.32	0.60
4:CC:174:HIS:O	4:CC:183:GLY:HA2	2.00	0.60
8:CG:138:ASN:O	8:CG:140:LYS:N	2.33	0.60
23:Cb:62:UNK:O	23:Cb:63:UNK:C	2.50	0.60
29:D1:176:G:HO2'	29:D1:177:U:H6	1.48	0.60
29:D1:225:C:H2'	29:D1:226:C:H6	1.65	0.60
29:D1:525:C:C2	29:D1:526:C:C5	2.89	0.60
29:D1:601:U:N3	29:D1:602:A:C8	2.69	0.60
29:D1:705:A:C4	29:D1:715:A:N6	2.69	0.60
29:D1:771:A:H2'	29:D1:772:U:H5"	1.83	0.60
29:D1:856:G:C6	29:D1:857:G:C2	2.88	0.60
29:D1:1251:A:H8	74:D1:3557:OHX:N2	1.98	0.60
29:D1:1347:U:H3'	29:D1:1348:U:C5	2.36	0.60
29:D1:1643:A:H5"	29:D1:1822:C:H5"	1.83	0.60
29:D1:2100:A:H4'	29:D1:2101:C:OP1	2.01	0.60
29:D1:2251:G:N3	29:D1:2252:A:C8	2.69	0.60
29:D1:2689:A:H1'	29:D1:2702:A:H61	1.67	0.60
29:D1:2703:A:C3'	29:D1:2704:A:C5'	2.78	0.60
29:D1:2849:C:H2'	29:D1:2849:C:O2	2.00	0.60
29:D1:2981:U:O2'	29:D1:2982:A:H5"	2.02	0.60
29:D1:3013:U:H5"	29:D1:3013:U:C6	2.36	0.60
29:D1:3191:G:C6	29:D1:3202:G:C2	2.90	0.60
29:D1:3256:G:H2'	29:D1:3256:G:N3	2.14	0.60
29:D1:3321:C:C2'	29:D1:3322:A:H8	2.14	0.60
30:D2:59:U:H2'	30:D2:60:G:C8	2.36	0.60
36:DE:226:TYR:O	36:DE:230:ASP:HA	2.02	0.60
37:DF:125:GLN:HA	37:DF:129:GLU:CB	2.31	0.60
72:DL:41:LYS:O	72:DL:71:ALA:HB3	2.01	0.60
45:DP:95:GLY:O	45:DP:98:ALA:N	2.34	0.60
46:DQ:128:ARG:N	46:DQ:139:TYR:H	1.98	0.60
54:DY:126:LYS:O	54:DY:147:LEU:HA	2.02	0.60
56:Da:82:GLU:CB	56:Da:83:GLU:CA	2.79	0.60
1:A1:38:C:C3'	1:A1:39:A:H5"	2.32	0.60
1:A1:63:G:C6	1:A1:88:U:O2	2.54	0.60
1:A1:142:G:N2	1:A1:173:A:C6	2.68	0.60
1:A1:248:U:O2'	1:A1:249:U:H5"	2.01	0.60
1:A1:606:A:H4'	1:A1:607:G:C3'	2.32	0.60
1:A1:1097:U:O2'	1:A1:1098:U:C5'	2.39	0.60
1:A1:1198:G:C3'	1:A1:1199:G:H5'	2.31	0.60
1:A1:1326:A:C2'	1:A1:1327:C:H5'	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1333:C:H2'	1:A1:1334:U:C6	2.36	0.60
1:A1:1557:U:H3'	1:A1:1557:U:O2	2.01	0.60
3:AB:142:GLY:O	3:AB:149:GLY:O	2.19	0.60
7:AF:110:HIS:CA	7:AF:111:VAL:CB	2.80	0.60
7:AF:125:VAL:HA	7:AF:139:VAL:HA	1.82	0.60
12:AK:54:THR:O	12:AK:55:THR:C	2.45	0.60
16:AO:94:LEU:O	16:AO:95:PRO:CB	2.50	0.60
20:AS:42:CYS:C	20:AS:44:ARG:H	2.08	0.60
29:B1:19:U:C4	29:B1:20:A:N6	2.69	0.60
29:B1:34:A:C8	29:B1:51:A:C6	2.89	0.60
29:B1:88:A:H2	29:B1:281:G:N3	2.00	0.60
29:B1:160:G:N2	29:B1:263:C:HO2'	1.99	0.60
29:B1:207:U:C2	29:B1:208:C:C5	2.90	0.60
29:B1:539:C:H2'	29:B1:539:C:O2	2.01	0.60
29:B1:682:U:C4	29:B1:699:A:C2	2.89	0.60
29:B1:781:G:C5	29:B1:782:U:C5	2.89	0.60
29:B1:888:A:N1	29:B1:889:U:C2	2.69	0.60
29:B1:1059:G:H2'	29:B1:1059:G:N3	2.15	0.60
29:B1:1196:C:O2	30:B2:86:U:O4'	2.20	0.60
29:B1:1312:C:H5'	29:B1:1313:G:OP2	2.02	0.60
29:B1:1847:A:H2	29:B1:1849:C:O4'	1.84	0.60
29:B1:2113:A:N7	29:B1:2114:C:C4	2.69	0.60
29:B1:2235:C:C4	29:B1:2236:G:C6	2.89	0.60
29:B1:2383:C:H2'	29:B1:2384:A:O5'	2.01	0.60
29:B1:2386:A:C8	29:B1:2994:A:N1	2.69	0.60
29:B1:2640:A:C8	29:B1:2641:U:H5	2.19	0.60
29:B1:2702:A:H8	29:B1:2704:A:C5	2.18	0.60
29:B1:2732:G:C4	29:B1:2733:A:C8	2.89	0.60
29:B1:2861:U:H2'	29:B1:2862:U:O4'	2.02	0.60
29:B1:2963:C:H2'	29:B1:2964:G:H5'	1.82	0.60
29:B1:2968:G:C2'	29:B1:2969:A:O5'	2.49	0.60
29:B1:3142:A:O3'	29:B1:3144:G:H8	1.84	0.60
29:B1:3359:A:H2'	29:B1:3360:C:O4'	2.00	0.60
33:BB:198:LYS:O	33:BB:200:ARG:N	2.33	0.60
34:BC:160:VAL:O	34:BC:161:LEU:C	2.42	0.60
36:BE:133:GLU:CB	36:BE:134:ALA:HA	2.31	0.60
45:BP:192:LYS:C	45:BP:194:LEU:N	2.58	0.60
58:Bc:16:GLN:C	58:Bc:18:ALA:H	2.08	0.60
1:C1:330:G:H2'	1:C1:331:A:C8	2.35	0.60
1:C1:971:A:N6	29:D1:846:A:H62	2.00	0.60
1:C1:1112:G:OP2	1:C1:1113:A:H2'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1157:A:H2'	1:C1:1160:A:N7	2.17	0.60
1:C1:1283:U:H5"	1:C1:1284:C:H2'	1.83	0.60
1:C1:1402:G:C5	1:C1:1403:C:C5	2.88	0.60
1:C1:1558:U:C6	1:C1:1558:U:H3'	2.34	0.60
1:C1:1683:C:H4'	1:C1:1684:U:C5	2.35	0.60
1:C1:1690:G:N2	1:C1:1713:G:H1	2.00	0.60
1:C1:1720:G:C6	1:C1:1721:A:C4	2.89	0.60
6:CE:119:ALA:HB1	6:CE:125:ALA:HB2	1.83	0.60
24:Cc:4:UNK:O	24:Cc:5:UNK:O	2.18	0.60
29:D1:10:C:O2	29:D1:11:A:O4'	2.19	0.60
29:D1:62:A:H2'	29:D1:63:A:H8	1.67	0.60
29:D1:408:A:C2	29:D1:409:A:C2	2.89	0.60
29:D1:649:A:H2'	29:D1:650:C:H6	1.66	0.60
29:D1:1018:G:N1	29:D1:1019:G:O6	2.34	0.60
29:D1:1063:G:O2'	29:D1:1064:A:P	2.59	0.60
29:D1:1079:A:H4'	36:DE:140:ARG:CB	2.32	0.60
29:D1:1107:C:H2'	29:D1:1108:U:H6	1.66	0.60
29:D1:1300:G:C6	29:D1:1301:A:N6	2.68	0.60
29:D1:1325:U:O4	29:D1:1326:A:N6	2.34	0.60
29:D1:1362:G:H2'	29:D1:1363:A:C8	2.36	0.60
29:D1:1394:A:H2'	29:D1:1395:G:C5'	2.31	0.60
29:D1:1524:A:H1'	29:D1:1525:G:OP1	2.00	0.60
29:D1:1552:G:C5'	29:D1:1553:U:OP2	2.49	0.60
29:D1:1629:U:H3'	29:D1:1630:U:H5"	1.82	0.60
29:D1:1928:G:C5	29:D1:1929:G:C8	2.89	0.60
29:D1:2184:U:C2	29:D1:2185:G:C8	2.90	0.60
29:D1:2523:A:H4'	29:D1:2524:A:OP1	2.00	0.60
29:D1:2609:A:H2'	29:D1:2610:G:H8	1.65	0.60
29:D1:2698:G:C3'	29:D1:2699:G:H5"	2.31	0.60
29:D1:2700:G:OP1	49:DT:17:ARG:CB	2.49	0.60
29:D1:2897:A:C2	29:D1:2905:U:N3	2.69	0.60
29:D1:2925:C:H2'	29:D1:2926:A:O4'	2.00	0.60
29:D1:2950:G:N3	29:D1:2950:G:H2'	2.15	0.60
29:D1:3019:U:C4	29:D1:3020:U:C4	2.90	0.60
29:D1:3026:G:N2	29:D1:3030:G:C5	2.70	0.60
29:D1:3111:U:H2'	29:D1:3112:G:C5'	2.32	0.60
29:D1:3294:A:C6	29:D1:3295:A:C5	2.89	0.60
31:D3:10:A:C4	31:D3:11:C:C5	2.90	0.60
31:D3:154:C:C2	31:D3:155:A:C8	2.89	0.60
47:DR:92:ARG:O	47:DR:94:PHE:N	2.34	0.60
1:A1:63:G:O4'	1:A1:170:U:C2	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:365:G:C2	1:A1:366:A:C8	2.88	0.60
1:A1:374:U:C2	1:A1:375:U:C6	2.89	0.60
1:A1:588:U:H2'	1:A1:589:C:H6	1.67	0.60
1:A1:605:A:C5	1:A1:606:A:C6	2.90	0.60
1:A1:873:U:N3	1:A1:874:C:C4	2.70	0.60
1:A1:880:C:H2'	1:A1:881:A:H8	1.65	0.60
1:A1:923:A:H2'	1:A1:924:A:C8	2.36	0.60
1:A1:1348:A:C8	1:A1:1348:A:C3'	2.84	0.60
1:A1:1385:G:C2	1:A1:1386:G:C8	2.88	0.60
1:A1:1497:U:C4	1:A1:1511:U:C2	2.90	0.60
1:A1:1720:G:H2'	1:A1:1721:A:C5'	2.31	0.60
3:AB:128:GLY:O	3:AB:131:ILE:N	2.32	0.60
8:AG:88:LEU:C	8:AG:90:TYR:N	2.57	0.60
11:AJ:35:PRO:O	11:AJ:37:THR:N	2.34	0.60
24:Ac:4:UNK:HA	24:Ac:98:UNK:C	2.32	0.60
29:B1:252:U:H3'	29:B1:253:A:C5'	2.31	0.60
29:B1:264:G:C6	29:B1:265:A:N6	2.68	0.60
29:B1:287:G:H2'	29:B1:288:C:C6	2.33	0.60
29:B1:307:A:C8	29:B1:307:A:H3'	2.36	0.60
29:B1:505:G:H2'	29:B1:506:U:O5'	2.00	0.60
29:B1:511:G:N2	29:B1:579:G:N2	2.49	0.60
29:B1:532:A:C6	29:B1:533:A:C2	2.90	0.60
29:B1:560:G:C2	29:B1:561:C:C4	2.89	0.60
29:B1:659:G:H8	29:B1:659:G:O5'	1.84	0.60
29:B1:1139:G:H8	29:B1:1139:G:H5'	1.65	0.60
29:B1:1171:G:N7	74:B1:3537:OHX:N2	2.48	0.60
29:B1:1303:A:N1	29:B1:2887:A:C5	2.70	0.60
29:B1:1338:C:N3	29:B1:1339:C:C5	2.69	0.60
29:B1:1715:A:C8	29:B1:1716:U:O4'	2.54	0.60
29:B1:2132:C:H6	29:B1:2132:C:C5'	2.11	0.60
29:B1:2554:A:H2	33:BB:85:GLY:C	2.09	0.60
29:B1:2903:A:C5	29:B1:2904:U:C6	2.90	0.60
29:B1:3163:A:OP2	29:B1:3163:A:H8	1.84	0.60
29:B1:3295:A:H2'	29:B1:3296:A:H8	1.67	0.60
29:B1:3303:G:O2'	29:B1:3304:U:H5'	2.01	0.60
29:B1:3314:A:OP2	34:BC:174:LYS:O	2.19	0.60
29:B1:3321:C:C4	29:B1:3322:A:N7	2.69	0.60
29:B1:3357:U:H2'	29:B1:3358:U:C5	2.36	0.60
30:B2:7:G:O6	30:B2:114:U:O4	2.19	0.60
30:B2:64:A:O4'	30:B2:65:G:O5'	2.19	0.60
31:B3:42:G:O6	31:B3:103:G:C2	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:53:A:C6	31:B3:54:A:C5	2.89	0.60
31:B3:113:U:HO2'	31:B3:114:G:P	2.23	0.60
31:B3:138:A:H2	31:B3:139:U:N1	1.99	0.60
32:BA:54:LYS:HA	32:BA:55:LEU:CB	2.31	0.60
32:BA:55:LEU:N	32:BA:186:SER:HA	2.17	0.60
43:BN:82:SER:O	43:BN:83:LYS:C	2.44	0.60
47:BR:37:ALA:O	47:BR:39:ARG:N	2.33	0.60
1:C1:4:C:H2'	1:C1:5:U:H6	1.66	0.60
1:C1:381:C:O2'	1:C1:755:A:N1	2.34	0.60
1:C1:448:C:C2'	1:C1:449:C:H6	2.01	0.60
1:C1:533:U:H3'	1:C1:534:A:C8	2.31	0.60
1:C1:635:A:OP1	1:C1:636:A:OP2	2.19	0.60
1:C1:932:U:H4'	1:C1:933:A:O5'	2.00	0.60
1:C1:986:G:O2'	1:C1:987:G:O5'	2.18	0.60
1:C1:1054:U:H2'	1:C1:1055:U:H6	1.66	0.60
1:C1:1118:G:C6	1:C1:1119:G:C6	2.88	0.60
1:C1:1150:G:O2'	1:C1:1151:A:OP1	2.19	0.60
1:C1:1409:G:H8	1:C1:1411:A:OP2	1.84	0.60
1:C1:1483:A:H61	1:C1:1591:C:H1'	1.66	0.60
2:CA:59:LEU:O	2:CA:60:ALA:C	2.44	0.60
2:CA:67:ILE:C	2:CA:69:ASN:H	2.10	0.60
16:CO:102:VAL:H	16:CO:113:HIS:CB	2.14	0.60
29:D1:43:A:N7	29:D1:2803:A:C6	2.69	0.60
29:D1:43:A:C8	29:D1:2803:A:N6	2.69	0.60
29:D1:66:A:H62	29:D1:76:G:N2	1.98	0.60
29:D1:88:A:H2	29:D1:281:G:C2	2.18	0.60
29:D1:222:A:C6	29:D1:223:U:C4	2.89	0.60
29:D1:333:G:H2'	29:D1:334:A:H8	1.66	0.60
29:D1:534:U:O5'	29:D1:534:U:C6	2.46	0.60
29:D1:705:A:C4'	29:D1:706:A:H5'	2.31	0.60
29:D1:739:G:H3'	29:D1:740:G:H8	1.67	0.60
29:D1:759:U:N3	29:D1:773:G:C5	2.70	0.60
29:D1:1085:A:H5'	29:D1:1086:C:OP2	2.01	0.60
29:D1:1242:G:C8	29:D1:1242:G:OP1	2.54	0.60
29:D1:1258:U:H2'	29:D1:1258:U:O2	2.02	0.60
29:D1:1354:G:C8	29:D1:1355:A:N1	2.69	0.60
29:D1:1448:U:C5	29:D1:2355:G:N2	2.68	0.60
29:D1:1560:G:H2'	29:D1:1561:G:O4'	2.01	0.60
29:D1:1921:A:C6	29:D1:1929:G:N2	2.69	0.60
29:D1:2115:G:N2	74:D1:3448:OHX:N2	2.50	0.60
29:D1:2169:G:O6	74:D1:3492:OHX:N3	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2282:U:H5'	29:D1:2282:U:C6	2.36	0.60
29:D1:2520:A:C5	29:D1:2521:U:O4	2.54	0.60
29:D1:2540:A:O2'	29:D1:2541:U:H5'	2.02	0.60
29:D1:2561:A:H2'	29:D1:2562:A:C8	2.35	0.60
29:D1:2715:A:OP1	29:D1:2715:A:H2'	2.01	0.60
29:D1:3011:A:H1'	29:D1:3012:A:O4'	2.01	0.60
29:D1:3092:C:O2'	29:D1:3094:A:OP2	2.15	0.60
30:D2:10:C:O2'	30:D2:13:A:H8	1.84	0.60
30:D2:77:G:O2'	30:D2:78:U:OP2	2.19	0.60
30:D2:117:A:C2'	30:D2:118:A:H5'	2.32	0.60
31:D3:49:G:C5	31:D3:50:C:C5	2.89	0.60
31:D3:95:G:H4'	59:Dd:72:ARG:HA	1.83	0.60
31:D3:125:U:O4	74:D3:205:OHX:N1	2.34	0.60
34:DC:20:LYS:O	34:DC:21:ARG:O	2.20	0.60
36:DE:126:GLU:C	36:DE:128:GLU:N	2.53	0.60
38:DG:32:ALA:O	38:DG:33:ARG:C	2.44	0.60
38:DG:224:ILE:C	38:DG:226:GLY:H	2.09	0.60
42:DK:50:ALA:C	42:DK:62:ASN:HA	2.27	0.60
46:DQ:73:GLY:O	46:DQ:75:GLU:O	2.18	0.60
65:Dk:6:UNK:C	65:Dk:8:UNK:N	2.62	0.60
1:A1:57:G:C5	1:A1:58:U:H5	2.19	0.60
1:A1:168:A:H3'	1:A1:169:A:C8	2.37	0.60
1:A1:207:U:N3	1:A1:208:U:C5	2.69	0.60
1:A1:212:U:O2'	1:A1:213:A:H5'	2.01	0.60
1:A1:302:U:H2'	1:A1:303:U:H5'	1.84	0.60
1:A1:734:A:O2'	1:A1:735:C:H5'	2.02	0.60
1:A1:798:C:C2'	1:A1:799:A:H5'	2.32	0.60
1:A1:830:U:C2	1:A1:831:U:C5	2.90	0.60
1:A1:1458:G:H3'	1:A1:1459:C:C6	2.36	0.60
1:A1:1508:U:O4	74:A1:1909:OHX:N5	2.34	0.60
2:AA:90:ALA:HB1	2:AA:95:ALA:O	2.02	0.60
29:B1:200:C:N4	29:B1:217:U:C6	2.69	0.60
29:B1:297:G:H4'	29:B1:299:G:H4'	1.83	0.60
29:B1:439:C:H2'	29:B1:439:C:O2	2.01	0.60
29:B1:593:C:H3'	29:B1:594:U:O4'	2.02	0.60
29:B1:773:G:O2'	29:B1:774:G:O4'	2.20	0.60
29:B1:1260:A:H2	29:B1:1278:A:C6	2.20	0.60
29:B1:1330:A:H2'	29:B1:1331:U:H3'	1.82	0.60
29:B1:1453:A:H2'	29:B1:1878:G:H1	1.65	0.60
29:B1:1627:U:C5	29:B1:1628:C:N3	2.70	0.60
29:B1:2554:A:C2	33:BB:85:GLY:C	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2650:U:H2'	29:B1:2650:U:O2	2.01	0.60
29:B1:3028:G:N2	29:B1:3029:A:C2	2.68	0.60
29:B1:3086:A:C4	29:B1:3087:A:C8	2.89	0.60
29:B1:3089:C:H3'	29:B1:3090:U:C5'	2.30	0.60
29:B1:3197:G:OP2	29:B1:3198:U:H5	1.84	0.60
29:B1:3257:C:HO2'	29:B1:3258:U:H5	1.43	0.60
30:B2:42:A:N3	30:B2:45:A:N6	2.49	0.60
30:B2:70:U:H2'	30:B2:71:G:C8	2.34	0.60
33:BB:12:ALA:O	33:BB:14:SER:N	2.34	0.60
38:BG:143:THR:O	38:BG:147:LEU:CB	2.49	0.60
44:BO:83:LYS:C	44:BO:85:THR:H	2.09	0.60
44:BO:141:ALA:O	44:BO:142:ILE:C	2.44	0.60
44:BO:186:GLY:N	44:BO:187:ARG:CA	2.64	0.60
47:BR:24:VAL:O	47:BR:25:TYR:C	2.44	0.60
56:Ba:37:LYS:O	56:Ba:40:ALA:HB3	2.01	0.60
1:C1:148:A:O5'	1:C1:149:C:H5	1.84	0.60
1:C1:166:C:C4	1:C1:167:U:O4	2.55	0.60
1:C1:199:G:C4	1:C1:200:A:N7	2.69	0.60
1:C1:926:A:H2	9:CH:125:SER:HA	1.67	0.60
1:C1:938:G:H5'	1:C1:939:A:OP2	2.02	0.60
1:C1:946:U:H2'	1:C1:946:U:O2	2.00	0.60
1:C1:1200:G:H5"	1:C1:1200:G:C8	2.36	0.60
1:C1:1336:A:C5'	1:C1:1337:A:OP2	2.49	0.60
1:C1:1570:A:N3	1:C1:1571:C:H1'	2.16	0.60
1:C1:1778:G:C2	1:C1:1779:U:C5	2.89	0.60
14:CM:17:ALA:C	14:CM:19:ALA:N	2.58	0.60
15:CN:97:VAL:C	15:CN:99:ILE:H	2.09	0.60
29:D1:385:A:N3	29:D1:386:A:N7	2.49	0.60
29:D1:525:C:H2'	29:D1:526:C:H6	1.66	0.60
29:D1:583:G:C6	29:D1:584:G:N7	2.70	0.60
29:D1:747:A:P	29:D1:747:A:H8	2.24	0.60
29:D1:791:A:H5"	29:D1:792:G:OP2	2.02	0.60
29:D1:945:C:C1'	29:D1:1407:A:H1'	2.31	0.60
29:D1:957:C:O3'	29:D1:2799:A:C8	2.54	0.60
29:D1:995:U:C4	29:D1:2637:A:C4	2.89	0.60
29:D1:1454:A:O4'	29:D1:1878:G:N2	2.35	0.60
29:D1:1655:G:N2	29:D1:1801:U:N3	2.49	0.60
29:D1:1748:G:H2'	29:D1:1749:A:H8	1.65	0.60
29:D1:2290:C:O2'	29:D1:2291:A:O5'	2.20	0.60
29:D1:2682:C:C2	29:D1:2683:U:C5	2.89	0.60
29:D1:3178:A:O2'	29:D1:3179:U:P	2.59	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3273:A:C6	29:D1:3274:A:C5	2.90	0.60
30:D2:31:U:C6	30:D2:32:U:C5	2.90	0.60
31:D3:150:G:H2'	31:D3:152:G:OP2	2.02	0.60
33:DB:207:VAL:O	33:DB:208:ASP:O	2.20	0.60
34:DC:43:LEU:O	34:DC:44:THR:CB	2.48	0.60
37:DF:23:LYS:HA	37:DF:114:LYS:CB	2.30	0.60
39:DH:237:ILE:O	39:DH:238:LEU:C	2.45	0.60
40:DI:63:LYS:O	40:DI:67:ALA:N	2.33	0.60
40:DI:85:GLY:O	40:DI:186:PHE:HA	2.01	0.60
41:DJ:97:LEU:O	41:DJ:123:HIS:N	2.33	0.60
43:DN:89:ALA:O	43:DN:92:GLU:N	2.34	0.60
44:DO:160:GLU:O	44:DO:161:ALA:HB2	1.99	0.60
64:Di:3:UNK:C	64:Di:5:UNK:N	2.62	0.60
1:A1:288:A:C4	1:A1:289:U:H5	2.19	0.60
1:A1:310:C:C6	1:A1:310:C:C3'	2.85	0.60
1:A1:699:U:H2'	1:A1:700:C:H5	1.63	0.60
1:A1:1042:G:C2	1:A1:1043:A:C4	2.89	0.60
1:A1:1157:A:H2'	1:A1:1160:A:N7	2.16	0.60
1:A1:1237:G:C4	1:A1:1238:A:C8	2.90	0.60
1:A1:1606:C:H2'	1:A1:1607:G:C8	2.37	0.60
1:A1:1772:C:H2'	1:A1:1772:C:O2	2.01	0.60
2:AA:129:ASP:O	2:AA:132:ALA:HB3	2.02	0.60
3:AB:83:ILE:HA	3:AB:100:ALA:HB2	1.82	0.60
6:AE:54:ARG:O	6:AE:55:ALA:O	2.19	0.60
17:AP:92:CYS:C	17:AP:94:ASN:H	2.10	0.60
29:B1:69:C:H2'	29:B1:69:C:O2	2.01	0.60
29:B1:70:A:H2	29:B1:71:A:HO2'	1.33	0.60
29:B1:308:A:C2	29:B1:2782:U:C2	2.89	0.60
29:B1:342:A:C6	29:B1:349:A:N7	2.70	0.60
29:B1:361:A:O2'	29:B1:362:U:C4'	2.50	0.60
29:B1:515:C:H5'	37:BF:143:LYS:CB	2.31	0.60
29:B1:629:U:H3'	29:B1:630:A:H8	1.65	0.60
29:B1:645:A:C6	29:B1:649:A:C8	2.89	0.60
29:B1:756:U:H5"	29:B1:757:C:OP2	2.02	0.60
29:B1:986:U:H2'	29:B1:987:U:O5'	2.01	0.60
29:B1:1023:C:H3'	29:B1:1024:G:C5'	2.32	0.60
29:B1:1178:G:H2'	29:B1:1179:A:C5'	2.31	0.60
29:B1:1364:C:H2'	29:B1:1365:G:C8	2.37	0.60
29:B1:1379:G:N3	29:B1:1379:G:H2'	2.16	0.60
29:B1:1401:A:H2'	29:B1:1402:C:C6	2.37	0.60
29:B1:1444:G:N2	29:B1:2359:C:N3	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1552:G:H5”	29:B1:1553:U:OP2	2.01	0.60
29:B1:1914:G:H1’	29:B1:2115:G:C8	2.37	0.60
29:B1:2119:A:N7	29:B1:2120:A:C2	2.68	0.60
29:B1:2258:U:H2’	29:B1:2258:U:O2	2.01	0.60
29:B1:2341:A:H8	29:B1:2341:A:OP2	1.85	0.60
29:B1:3135:U:C5	29:B1:3136:G:C6	2.90	0.60
30:B2:5:G:C2’	30:B2:6:C:H5”	2.31	0.60
30:B2:72:A:H2’	30:B2:73:C:H6	1.64	0.60
30:B2:77:G:C2	30:B2:101:G:C5	2.89	0.60
31:B3:41:A:OP2	59:Bd:58:THR:C	2.44	0.60
31:B3:80:A:H2’	31:B3:81:U:N1	2.16	0.60
31:B3:97:A:C2’	31:B3:98:U:H5’	2.31	0.60
31:B3:107:G:C5	31:B3:116:G:O6	2.54	0.60
32:BA:95:LYS:CB	32:BA:124:LEU:HA	2.31	0.60
40:BI:45:PHE:O	40:BI:46:THR:CB	2.50	0.60
45:BP:83:ALA:O	45:BP:84:LEU:C	2.43	0.60
65:Bk:6:UNK:O	65:Bk:7:UNK:C	2.50	0.60
1:C1:454:U:O2’	1:C1:455:C:O4’	2.19	0.60
1:C1:511:A:H4’	1:C1:512:A:OP2	2.02	0.60
1:C1:518:A:N1	1:C1:535:A:N3	2.49	0.60
1:C1:824:G:H4’	1:C1:825:U:C5’	2.17	0.60
1:C1:1109:G:C2’	1:C1:1110:G:C5’	2.79	0.60
1:C1:1282:U:C2	1:C1:1283:U:C5	2.90	0.60
1:C1:1378:U:C4	11:CJ:19:VAL:CB	2.85	0.60
4:CC:133:GLY:HA3	4:CC:154:ASP:O	2.02	0.60
5:CD:197:GLU:H	5:CD:200:ASN:N	1.95	0.60
29:D1:383:G:O2’	29:D1:385:A:C8	2.52	0.60
29:D1:431:U:C6	29:D1:431:U:H3’	2.37	0.60
29:D1:431:U:C2	29:D1:432:G:C8	2.90	0.60
29:D1:516:A:P	29:D1:517:G:OP1	2.60	0.60
29:D1:532:A:H2’	29:D1:533:A:C8	2.36	0.60
29:D1:534:U:O2	29:D1:559:A:H2	1.85	0.60
29:D1:637:C:C2	29:D1:638:C:C4	2.90	0.60
29:D1:774:G:H2’	29:D1:775:A:H5’	1.79	0.60
29:D1:968:G:C4	29:D1:969:C:C5	2.90	0.60
29:D1:1170:A:C8	29:D1:1171:G:C8	2.90	0.60
29:D1:1192:C:OP1	29:D1:1192:C:C3’	2.36	0.60
29:D1:1302:A:N3	29:D1:2887:A:C2	2.70	0.60
29:D1:1317:A:C8	29:D1:1317:A:H5’	2.36	0.60
29:D1:1317:A:C5	29:D1:1319:G:N7	2.68	0.60
29:D1:1445:U:C5	29:D1:1446:A:C8	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1539:A:C6	29:D1:1583:A:C8	2.89	0.60
29:D1:1681:U:O2	29:D1:1681:U:C2'	2.49	0.60
29:D1:1780:G:N3	29:D1:1781:C:C5	2.69	0.60
29:D1:2113:A:C2'	29:D1:2114:C:C5'	2.79	0.60
29:D1:2278:C:N4	29:D1:2305:G:N7	2.49	0.60
29:D1:2516:U:O2'	29:D1:2517:U:O4'	2.14	0.60
29:D1:2522:G:O2'	29:D1:2523:A:OP1	2.17	0.60
29:D1:3073:A:H2'	29:D1:3074:G:O5'	2.00	0.60
29:D1:3305:A:C5	29:D1:3306:U:N3	2.69	0.60
29:D1:3377:G:C8	74:D1:3452:OHX:N5	2.70	0.60
30:D2:2:G:H2'	30:D2:2:G:N3	2.14	0.60
30:D2:66:A:H2'	30:D2:67:G:O4'	2.02	0.60
36:DE:133:GLU:CB	36:DE:134:ALA:HA	2.32	0.60
38:DG:73:GLY:HA2	38:DG:74:SER:C	2.24	0.60
72:DL:138:SER:C	72:DL:140:GLY:N	2.60	0.60
43:DN:82:SER:O	43:DN:85:TRP:N	2.35	0.60
44:DO:141:ALA:O	44:DO:142:ILE:C	2.44	0.60
53:DX:18:ALA:O	53:DX:22:ALA:HB2	2.02	0.60
1:A1:10:G:H2'	1:A1:11:A:C8	2.37	0.60
1:A1:11:A:O2'	1:A1:1300:A:H4'	2.02	0.60
1:A1:35:U:O2'	1:A1:36:C:H5'	2.02	0.60
1:A1:190:C:N4	1:A1:192:U:H3	2.00	0.60
1:A1:223:U:H5'	1:A1:224:C:OP2	2.02	0.60
1:A1:296:U:H2'	1:A1:297:U:N1	2.16	0.60
1:A1:497:G:H2'	1:A1:498:G:H5'	1.84	0.60
1:A1:1110:G:C2	1:A1:1111:G:C4	2.90	0.60
1:A1:1153:G:OP2	1:A1:1153:G:C8	2.53	0.60
1:A1:1455:G:C4	1:A1:1456:C:N3	2.69	0.60
1:A1:1585:U:C5	1:A1:1610:G:N2	2.69	0.60
1:A1:1673:G:C5	1:A1:1674:C:C5	2.90	0.60
1:A1:1685:G:N2	1:A1:1718:G:N2	2.47	0.60
5:AD:135:ASP:HA	5:AD:138:THR:CB	2.32	0.60
9:AH:44:GLY:O	9:AH:46:MET:N	2.35	0.60
10:AI:19:GLY:N	13:AL:98:TYR:HA	2.16	0.60
28:Ah:11:UNK:C	28:Ah:13:UNK:N	2.61	0.60
29:B1:20:A:H4'	29:B1:21:G:OP1	2.01	0.60
29:B1:209:A:O3'	29:B1:210:U:C6	2.54	0.60
29:B1:301:G:O2'	29:B1:302:U:H5'	2.01	0.60
29:B1:514:G:C2'	29:B1:515:C:C6	2.84	0.60
29:B1:648:C:C5	29:B1:2374:C:O3'	2.54	0.60
29:B1:688:G:C1'	29:B1:692:A:H61	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:784:A:C2'	29:B1:785:G:H8	2.14	0.60
29:B1:1062:A:H3'	29:B1:1063:G:C8	2.37	0.60
29:B1:1183:C:H2'	29:B1:1184:A:H5"	1.84	0.60
29:B1:1317:A:C5	29:B1:1319:G:N7	2.70	0.60
29:B1:1357:G:C4	29:B1:1358:C:C5	2.89	0.60
29:B1:1742:U:H2'	29:B1:1743:G:H8	1.67	0.60
29:B1:1884:A:C4	29:B1:1885:U:N3	2.70	0.60
29:B1:2104:A:C3'	29:B1:2105:G:H5"	2.31	0.60
29:B1:2144:A:N3	29:B1:2281:A:N6	2.50	0.60
29:B1:2315:G:C2	29:B1:2316:G:C8	2.90	0.60
29:B1:2522:G:C6	29:B1:2587:U:C4	2.89	0.60
29:B1:2556:C:O2	29:B1:2556:C:C2'	2.49	0.60
29:B1:2582:C:OP2	29:B1:2582:C:H6	1.83	0.60
29:B1:2696:A:N7	29:B1:2697:A:N7	2.49	0.60
29:B1:2961:G:C5	29:B1:2962:U:C5	2.90	0.60
29:B1:3328:G:O2'	29:B1:3329:U:C4'	2.50	0.60
37:BF:152:THR:HA	37:BF:156:LYS:H	1.66	0.60
41:BJ:146:ASP:O	41:BJ:147:VAL:C	2.43	0.60
44:BO:97:SER:O	44:BO:99:ARG:N	2.35	0.60
45:BP:25:LYS:O	45:BP:26:GLN:C	2.45	0.60
45:BP:56:ASP:C	45:BP:60:LYS:N	2.60	0.60
46:BQ:30:ARG:O	46:BQ:31:GLU:C	2.45	0.60
48:BS:70:LYS:C	48:BS:72:GLU:H	2.09	0.60
50:BU:27:ASP:CB	50:BU:101:VAL:HA	2.31	0.60
1:C1:59:C:N4	1:C1:89:G:C4	2.70	0.60
1:C1:168:A:C6	1:C1:169:A:N6	2.70	0.60
1:C1:337:G:H4'	1:C1:338:C:H5"	1.84	0.60
1:C1:380:U:H2'	1:C1:381:C:C5	2.37	0.60
1:C1:445:A:H2'	1:C1:446:A:H8	1.65	0.60
1:C1:539:G:N3	1:C1:543:C:N3	2.49	0.60
1:C1:611:U:C5'	1:C1:612:U:OP2	2.49	0.60
1:C1:782:U:H1'	1:C1:783:G:OP2	2.01	0.60
1:C1:885:G:H2'	1:C1:886:U:C6	2.36	0.60
1:C1:978:A:N1	1:C1:1024:U:O2	2.34	0.60
1:C1:1166:A:O2'	1:C1:1587:A:H4'	2.01	0.60
1:C1:1236:A:H3'	1:C1:1237:G:H8	1.66	0.60
1:C1:1294:G:C2	1:C1:1295:G:C8	2.89	0.60
1:C1:1331:A:C2'	1:C1:1332:C:O5'	2.50	0.60
1:C1:1431:C:C3'	1:C1:1432:U:H5'	2.32	0.60
1:C1:1520:U:N3	74:C1:1930:OHX:N4	2.50	0.60
1:C1:1718:G:H2'	1:C1:1719:A:C5'	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:9:ARG:CB	4:CC:13:ALA:HB2	2.31	0.60
12:CK:55:THR:O	12:CK:59:LYS:N	2.32	0.60
13:CL:46:VAL:O	13:CL:48:LYS:N	2.29	0.60
13:CL:101:LEU:O	13:CL:102:ALA:HB2	2.01	0.60
23:Cb:65:UNK:C	23:Cb:67:UNK:H	2.14	0.60
29:D1:44:U:C5	29:D1:45:A:N9	2.70	0.60
29:D1:287:G:C5	29:D1:288:C:C5	2.89	0.60
29:D1:760:G:N3	29:D1:761:A:C8	2.70	0.60
29:D1:1170:A:OP2	74:D1:3543:OHX:N3	2.34	0.60
29:D1:1224:C:C6	29:D1:1224:C:OP1	2.55	0.60
29:D1:1302:A:N3	29:D1:2887:A:C4	2.70	0.60
29:D1:1662:G:C5	29:D1:1663:C:C5	2.89	0.60
29:D1:1699:A:H2'	29:D1:1700:G:C8	2.36	0.60
29:D1:1839:A:C5'	29:D1:1840:U:OP1	2.44	0.60
29:D1:1888:U:OP1	34:DC:228:GLY:HA3	2.01	0.60
29:D1:2147:A:C5'	29:D1:2147:A:C8	2.84	0.60
29:D1:2163:C:H2'	29:D1:2163:C:O2	2.01	0.60
29:D1:2279:A:H2	29:D1:2285:C:N4	2.00	0.60
29:D1:2611:U:C2'	29:D1:2612:U:C6	2.66	0.60
29:D1:2806:U:C2'	29:D1:2807:U:H5'	2.31	0.60
29:D1:2931:C:H2'	29:D1:2932:U:H6	1.66	0.60
29:D1:2942:C:H6	29:D1:2942:C:C3'	2.12	0.60
29:D1:2968:G:H2'	29:D1:2969:A:O5'	2.02	0.60
29:D1:2986:U:C2	29:D1:2987:A:N7	2.70	0.60
29:D1:3029:A:H3'	29:D1:3030:G:C5'	2.29	0.60
30:D2:97:A:OP2	30:D2:97:A:C8	2.54	0.60
34:DC:40:PRO:O	34:DC:41:VAL:C	2.44	0.60
40:DI:45:PHE:O	40:DI:46:THR:CB	2.49	0.60
41:DJ:73:ASN:O	41:DJ:74:LYS:C	2.45	0.60
42:DK:55:ARG:O	42:DK:57:PHE:N	2.35	0.60
45:DP:56:ASP:C	45:DP:60:LYS:H	2.09	0.60
45:DP:58:LEU:H	45:DP:60:LYS:CB	2.15	0.60
49:DT:28:SER:C	49:DT:30:TYR:H	2.08	0.60
1:A1:34:G:H2'	1:A1:35:U:H6	1.65	0.60
1:A1:330:G:H2'	1:A1:331:A:H8	1.67	0.60
1:A1:614:C:C2	1:A1:615:A:C8	2.89	0.60
1:A1:624:G:C4	1:A1:1027:A:C2	2.90	0.60
1:A1:1065:A:C5	1:A1:1066:C:C4	2.90	0.60
1:A1:1267:G:H21	1:A1:1448:G:H5"	1.66	0.60
1:A1:1309:C:H2'	1:A1:1310:U:O5'	2.01	0.60
1:A1:1527:C:H2'	1:A1:1527:C:O2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1543:A:C8	1:A1:1569:A:N6	2.70	0.60
1:A1:1624:C:H2'	1:A1:1624:C:O2	2.00	0.60
14:AM:101:ASN:O	14:AM:103:LYS:N	2.35	0.60
17:AP:58:GLY:HA2	17:AP:70:LYS:HA	1.84	0.60
29:B1:10:C:C5	31:B3:149:A:C2	2.90	0.60
29:B1:35:A:C5	29:B1:36:C:C5	2.89	0.60
29:B1:88:A:C5	29:B1:99:A:N6	2.69	0.60
29:B1:386:A:H2'	29:B1:387:A:O4'	2.01	0.60
29:B1:396:A:H4'	29:B1:397:A:OP1	2.02	0.60
29:B1:407:A:C2'	29:B1:408:A:H5'	2.32	0.60
29:B1:592:A:H2'	29:B1:593:C:O2'	2.02	0.60
29:B1:677:A:H2	29:B1:703:G:H21	1.49	0.60
29:B1:761:A:N6	29:B1:770:G:H22	2.00	0.60
29:B1:876:A:H2'	29:B1:877:C:H5'	1.83	0.60
29:B1:960:U:C2'	29:B1:961:C:O4'	2.50	0.60
29:B1:1079:A:H5'	36:BE:141:PRO:CB	2.32	0.60
29:B1:1088:U:H2'	29:B1:1089:G:C8	2.37	0.60
29:B1:1192:C:OP2	29:B1:1192:C:N1	2.34	0.60
29:B1:1280:C:C2'	29:B1:1281:G:C8	2.81	0.60
29:B1:1463:U:H2'	29:B1:1464:G:H8	1.67	0.60
29:B1:1544:G:N2	29:B1:1545:A:H1'	2.17	0.60
29:B1:1638:A:N1	29:B1:1736:G:H2'	2.16	0.60
29:B1:1779:C:H4'	29:B1:1780:G:OP1	2.00	0.60
29:B1:2166:A:H2'	29:B1:2167:A:C8	2.36	0.60
29:B1:2184:U:C2	29:B1:2185:G:C8	2.89	0.60
29:B1:2294:U:C6	29:B1:2297:U:H5	2.20	0.60
29:B1:2361:A:C8	29:B1:2362:C:C5	2.90	0.60
29:B1:2429:G:O2'	29:B1:2430:A:H5'	2.02	0.60
29:B1:3136:G:C4	29:B1:3137:C:C5	2.89	0.60
29:B1:3305:A:H2'	29:B1:3306:U:O2	2.02	0.60
34:BC:133:TYR:O	34:BC:135:ALA:N	2.34	0.60
34:BC:295:ALA:N	34:BC:305:ILE:H	1.99	0.60
54:BY:134:ALA:O	54:BY:135:GLU:C	2.43	0.60
57:Bb:4:LEU:C	57:Bb:6:HIS:H	2.07	0.60
57:Bb:120:THR:C	57:Bb:122:PRO:N	2.60	0.60
58:Bc:60:GLU:C	58:Bc:62:GLN:H	2.10	0.60
59:Bd:40:PRO:C	59:Bd:42:ALA:H	2.10	0.60
1:C1:169:A:O2'	1:C1:171:A:C8	2.47	0.60
1:C1:268:C:N3	1:C1:288:A:H2	1.99	0.60
1:C1:330:G:N3	1:C1:331:A:C8	2.70	0.60
1:C1:483:A:P	1:C1:483:A:H8	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:524:U:N3	1:C1:527:A:C6	2.70	0.60
1:C1:614:C:C2	1:C1:615:A:C8	2.90	0.60
1:C1:635:A:C4	1:C1:863:A:C8	2.90	0.60
1:C1:871:G:O6	1:C1:957:G:O6	2.19	0.60
1:C1:1150:G:N2	1:C1:1795:U:OP2	2.35	0.60
1:C1:1634:C:P	1:C1:1634:C:C5	2.94	0.60
1:C1:1691:A:C5	1:C1:1692:G:H1'	2.37	0.60
2:CA:126:PRO:O	2:CA:130:ALA:HB2	2.01	0.60
10:CI:68:PRO:HA	10:CI:69:GLU:C	2.27	0.60
14:CM:57:ARG:O	14:CM:58:ALA:HB2	2.02	0.60
14:CM:112:GLY:O	14:CM:113:ILE:CB	2.50	0.60
15:CN:45:ALA:C	15:CN:47:GLN:H	2.09	0.60
29:D1:9:U:O4	29:D1:10:C:H5	1.85	0.60
29:D1:637:C:N3	29:D1:638:C:C4	2.69	0.60
29:D1:744:A:H2'	29:D1:745:C:C6	2.36	0.60
29:D1:746:A:H8	29:D1:746:A:O5'	1.84	0.60
29:D1:836:A:C6	29:D1:837:A:N7	2.69	0.60
29:D1:1042:U:OP2	29:D1:1042:U:C5	2.55	0.60
29:D1:1193:A:C8	29:D1:1194:G:N2	2.70	0.60
29:D1:1232:C:H41	29:D1:1261:G:H3'	1.67	0.60
29:D1:1249:G:H2'	29:D1:1250:G:C8	2.37	0.60
29:D1:1255:C:O2'	72:DL:131:GLU:HA	2.01	0.60
29:D1:1307:G:C2	29:D1:1308:A:C2	2.89	0.60
29:D1:1356:U:O2	29:D1:1356:U:H2'	2.01	0.60
29:D1:1409:G:H2'	29:D1:1410:U:H5'	1.82	0.60
29:D1:1528:G:H2'	29:D1:1529:A:C8	2.30	0.60
29:D1:1607:U:O2'	29:D1:1608:C:O5'	2.19	0.60
29:D1:1623:G:H3'	29:D1:1624:G:H8	1.67	0.60
29:D1:1662:G:H1	29:D1:1787:A:H61	1.49	0.60
29:D1:1857:C:O2'	29:D1:1858:A:C8	2.55	0.60
29:D1:1909:A:N6	29:D1:1910:A:N1	2.50	0.60
29:D1:2299:A:C4	29:D1:2300:G:C8	2.90	0.60
29:D1:2898:G:H8	29:D1:2898:G:O5'	1.84	0.60
29:D1:3006:A:C2	29:D1:3141:A:C2	2.90	0.60
29:D1:3194:C:H3'	29:D1:3194:C:C6	2.36	0.60
29:D1:3203:U:O3'	29:D1:3204:C:O4'	2.20	0.60
29:D1:3281:U:C4	29:D1:3282:U:O4	2.55	0.60
29:D1:3328:G:N2	29:D1:3375:A:H62	1.98	0.60
30:D2:12:U:N3	30:D2:70:U:OP1	2.35	0.60
30:D2:30:G:H2'	30:D2:31:U:C5'	2.31	0.60
30:D2:38:U:C5	30:D2:41:G:H5"	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:14:C:H3'	31:D3:15:G:C8	2.25	0.60
31:D3:48:A:C2	31:D3:51:G:C6	2.89	0.60
31:D3:74:U:H4'	31:D3:89:A:N3	2.16	0.60
35:DD:118:LYS:C	35:DD:121:ALA:HB3	2.27	0.60
37:DF:43:LEU:H	37:DF:84:VAL:HA	1.67	0.60
38:DG:120:THR:O	38:DG:123:THR:N	2.34	0.60
41:DJ:38:LYS:O	41:DJ:39:LYS:O	2.19	0.60
45:DP:56:ASP:O	45:DP:60:LYS:N	2.35	0.60
54:DY:85:ASP:H	54:DY:87:ARG:CB	2.15	0.60
1:A1:108:A:C3'	1:A1:109:G:H8	2.15	0.60
1:A1:143:G:C4	1:A1:144:U:H1'	2.37	0.60
1:A1:183:U:C5	1:A1:184:C:C4	2.90	0.60
1:A1:206:A:H2'	1:A1:207:U:H6	1.66	0.60
1:A1:340:U:C2	1:A1:341:A:C8	2.90	0.60
1:A1:634:G:C2	1:A1:966:A:C6	2.90	0.60
1:A1:814:A:C4	1:A1:816:G:C2	2.90	0.60
1:A1:935:U:H2'	1:A1:936:G:H8	1.66	0.60
1:A1:975:C:C2	1:A1:976:G:C8	2.89	0.60
1:A1:993:A:OP1	1:A1:1777:G:N2	2.24	0.60
1:A1:1053:G:H2'	1:A1:1054:U:C6	2.36	0.60
1:A1:1111:G:H2'	1:A1:1112:G:O4'	2.02	0.60
1:A1:1309:C:C2'	1:A1:1310:U:O5'	2.50	0.60
1:A1:1345:A:H2'	1:A1:1346:A:C8	2.37	0.60
1:A1:1543:A:C2	1:A1:1544:U:H1'	2.37	0.60
1:A1:1758:U:H2'	1:A1:1759:C:H6	1.66	0.60
3:AB:118:ALA:HB2	3:AB:124:ALA:H	1.67	0.60
5:AD:218:GLU:C	5:AD:220:VAL:H	2.10	0.60
29:B1:31:C:O2	29:B1:1546:A:H2	1.84	0.60
29:B1:121:A:H4'	29:B1:150:A:C2	2.36	0.60
29:B1:431:U:C6	29:B1:431:U:H3'	2.36	0.60
29:B1:563:U:C6	29:B1:564:G:H5"	2.37	0.60
29:B1:602:A:H2'	29:B1:602:A:N3	2.17	0.60
29:B1:847:A:C2	29:B1:848:A:C4	2.90	0.60
29:B1:1021:G:H2'	29:B1:1022:U:H6	1.66	0.60
29:B1:1498:A:C2	29:B1:1519:G:C2	2.90	0.60
29:B1:1536:G:C6	29:B1:1586:G:C2	2.90	0.60
29:B1:1623:G:H3'	29:B1:1624:G:H8	1.67	0.60
29:B1:1625:A:N7	29:B1:1626:U:C6	2.70	0.60
29:B1:1721:U:C2	29:B1:1723:A:OP2	2.54	0.60
29:B1:1728:G:H21	29:B1:1730:G:N2	1.99	0.60
29:B1:1736:G:C6	29:B1:1737:U:C4	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2204:C:O5'	29:B1:2204:C:H6	1.85	0.60
29:B1:2310:U:C2'	29:B1:2311:G:O5'	2.50	0.60
29:B1:2353:G:C4	29:B1:2354:C:H6	2.19	0.60
29:B1:2727:A:H2	29:B1:2729:U:H5	1.46	0.60
29:B1:2966:G:C6	29:B1:2967:A:N6	2.70	0.60
29:B1:3000:A:C2	29:B1:3001:C:C4	2.89	0.60
29:B1:3046:A:C5	29:B1:3047:U:C5	2.90	0.60
29:B1:3212:C:C2	29:B1:3213:A:C2	2.90	0.60
29:B1:3268:A:O3'	29:B1:3269:U:H4'	2.02	0.60
30:B2:14:U:OP2	30:B2:14:U:N1	2.34	0.60
30:B2:55:A:C2	30:B2:56:A:C4	2.87	0.60
30:B2:102:A:C2'	30:B2:103:A:O5'	2.49	0.60
31:B3:12:A:C2'	31:B3:13:A:H5'	2.31	0.60
31:B3:106:C:N1	31:B3:138:A:N7	2.50	0.60
36:BE:241:THR:C	36:BE:243:ALA:H	2.10	0.60
41:BJ:38:LYS:O	41:BJ:39:LYS:O	2.20	0.60
46:BQ:44:ALA:O	46:BQ:46:LYS:N	2.35	0.60
47:BR:60:PRO:O	47:BR:61:PRO:CB	2.50	0.60
56:Ba:38:LYS:C	56:Ba:40:ALA:H	2.10	0.60
1:C1:25:C:C4	1:C1:367:A:C1'	2.82	0.60
1:C1:225:A:C4	1:C1:226:A:C8	2.90	0.60
1:C1:243:G:O2'	1:C1:244:A:H5'	2.01	0.60
1:C1:248:U:O2'	1:C1:249:U:C5'	2.50	0.60
1:C1:250:C:C2	1:C1:251:A:C5	2.89	0.60
1:C1:260:U:H3'	1:C1:261:U:C5'	2.32	0.60
1:C1:314:C:O2	1:C1:354:C:N3	2.35	0.60
1:C1:317:C:N4	1:C1:318:U:O4	2.34	0.60
1:C1:449:C:H5"	1:C1:450:U:OP2	2.01	0.60
1:C1:480:G:C4	1:C1:481:A:C8	2.90	0.60
1:C1:695:U:OP2	1:C1:696:C:H1'	2.02	0.60
1:C1:1002:G:N1	1:C1:1003:A:N1	2.50	0.60
1:C1:1105:C:H2'	1:C1:1106:U:H6	1.67	0.60
1:C1:1110:G:HO2'	1:C1:1111:G:P	2.24	0.60
1:C1:1426:C:HO2'	1:C1:1427:A:H4'	1.66	0.60
1:C1:1481:C:H4'	1:C1:1482:C:OP1	2.01	0.60
1:C1:1517:U:O2	15:CN:17:GLN:N	2.35	0.60
1:C1:1786:G:C6	1:C1:1787:C:N4	2.70	0.60
5:CD:92:ARG:O	5:CD:94:THR:N	2.34	0.60
6:CE:73:GLY:C	6:CE:75:ALA:H	2.10	0.60
8:CG:88:LEU:C	8:CG:90:TYR:N	2.59	0.60
29:D1:71:A:N7	29:D1:72:C:C5	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:190:U:C5	29:D1:224:C:C1’	2.84	0.60
29:D1:310:U:H3’	29:D1:311:C:H5”	1.84	0.60
29:D1:707:U:H5”	29:D1:782:U:C2’	2.31	0.60
29:D1:826:G:N2	29:D1:1589:A:H62	1.94	0.60
29:D1:1023:C:H3’	29:D1:1024:G:C5’	2.31	0.60
29:D1:1168:U:OP1	38:DG:212:GLY:O	2.20	0.60
29:D1:1211:U:H2’	29:D1:1212:A:C8	2.32	0.60
29:D1:1237:G:N2	29:D1:1252:A:C2	2.69	0.60
29:D1:1242:G:OP1	29:D1:1242:G:H3’	2.02	0.60
29:D1:1270:A:C8	29:D1:1271:A:C8	2.90	0.60
29:D1:1833:G:C2	29:D1:1834:U:O2	2.54	0.60
29:D1:1907:C:H6	29:D1:1907:C:H3’	1.67	0.60
29:D1:1914:G:H1’	29:D1:2115:G:C8	2.37	0.60
29:D1:2147:A:H5’	29:D1:2147:A:C8	2.37	0.60
29:D1:2506:U:H2’	29:D1:2507:C:C6	2.36	0.60
29:D1:2513:U:H5”	29:D1:2592:G:H22	1.67	0.60
29:D1:3107:U:C2	29:D1:3108:G:C8	2.90	0.60
29:D1:3135:U:H3’	29:D1:3136:G:H8	1.66	0.60
29:D1:3189:G:O6	29:D1:3204:C:N4	2.31	0.60
29:D1:3215:A:P	29:D1:3218:A:O4’	2.60	0.60
29:D1:3260:G:OP2	29:D1:3261:C:H5”	2.02	0.60
29:D1:3280:U:O2	29:D1:3281:U:C6	2.55	0.60
29:D1:3311:C:H2’	29:D1:3312:U:C6	2.37	0.60
29:D1:3333:G:N3	29:D1:3371:G:C8	2.70	0.60
31:D3:18:U:N3	31:D3:19:C:C5	2.70	0.60
32:DA:55:LEU:N	32:DA:167:VAL:HA	2.16	0.60
34:DC:121:ASN:O	34:DC:122:TRP:CB	2.49	0.60
34:DC:169:THR:O	34:DC:171:LEU:N	2.35	0.60
35:DD:165:ALA:O	35:DD:166:VAL:C	2.45	0.60
35:DD:165:ALA:O	35:DD:168:ALA:N	2.35	0.60
35:DD:177:ASP:C	35:DD:179:LEU:N	2.59	0.60
47:DR:43:PRO:C	47:DR:45:ASN:N	2.60	0.60
58:Dc:4:VAL:HA	58:Dc:5:LYS:CB	2.30	0.60
1:A1:59:C:N4	1:A1:89:G:C4	2.70	0.59
1:A1:123:G:C6	1:A1:295:A:N6	2.69	0.59
1:A1:129:U:C5	1:A1:264:G:O6	2.54	0.59
1:A1:129:U:H5	1:A1:264:G:C5	2.17	0.59
1:A1:357:G:C5	1:A1:358:U:C4	2.90	0.59
1:A1:1185:U:C5	1:A1:1458:G:C8	2.90	0.59
1:A1:1331:A:H2’	1:A1:1332:C:O5’	2.01	0.59
1:A1:1433:G:N2	1:A1:1434:U:C5	2.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1481:C:H5	1:A1:1482:C:C2	2.21	0.59
14:AM:125:SER:O	14:AM:126:GLU:C	2.45	0.59
29:B1:258:G:H1'	29:B1:259:C:H5'	1.84	0.59
29:B1:588:G:C4'	29:B1:589:A:H62	2.15	0.59
29:B1:595:G:C6	29:B1:609:G:O4'	2.54	0.59
29:B1:722:G:N2	29:B1:748:U:H2'	2.16	0.59
29:B1:760:G:N3	29:B1:761:A:C8	2.70	0.59
29:B1:767:U:O3'	29:B1:768:C:H4'	2.02	0.59
29:B1:819:U:H4'	29:B1:2138:A:N1	2.17	0.59
29:B1:952:A:C8	29:B1:952:A:H3'	2.36	0.59
29:B1:1235:U:C5	29:B1:1263:A:N6	2.70	0.59
29:B1:1359:C:H2'	29:B1:1359:C:O2	2.00	0.59
29:B1:1383:G:N7	74:B1:3433:OHX:N3	2.49	0.59
29:B1:1409:G:C2'	29:B1:1410:U:H5'	2.32	0.59
29:B1:1478:C:H6	29:B1:1478:C:H5"	1.67	0.59
29:B1:1499:C:O2'	29:B1:1500:G:H5'	2.02	0.59
29:B1:1888:U:OP1	34:BC:228:GLY:HA3	2.01	0.59
29:B1:1909:A:N6	29:B1:1910:A:N1	2.49	0.59
29:B1:2157:G:N2	29:B1:2178:A:OP2	2.33	0.59
29:B1:2485:A:C5'	32:BA:106:LYS:HA	2.32	0.59
29:B1:2592:G:C6	74:B1:3449:OHX:N6	2.70	0.59
29:B1:2650:U:OP2	29:B1:2650:U:C6	2.54	0.59
29:B1:2792:A:C2'	29:B1:2793:G:H5'	2.31	0.59
29:B1:2896:A:H5'	29:B1:2896:A:C8	2.37	0.59
29:B1:3237:U:H2'	29:B1:3238:G:H8	1.64	0.59
29:B1:3289:G:N7	74:B1:3581:OHX:N4	2.49	0.59
29:B1:3305:A:H1'	29:B1:3311:C:O2	2.02	0.59
29:B1:3323:A:H2'	29:B1:3324:C:O5'	2.00	0.59
29:B1:3373:U:N3	29:B1:3374:U:C5	2.70	0.59
29:B1:3377:G:C5	74:B1:3450:OHX:N1	2.70	0.59
30:B2:69:C:C4	30:B2:70:U:O4	2.54	0.59
30:B2:121:U:OP2	36:BE:260:PHE:HA	2.02	0.59
31:B3:94:C:H41	59:Bd:63:ARG:CB	2.15	0.59
31:B3:131:A:C2	31:B3:132:G:C8	2.90	0.59
36:BE:234:ASP:C	36:BE:236:LEU:H	2.10	0.59
37:BF:9:TRP:O	37:BF:10:TYR:CB	2.49	0.59
38:BG:160:ARG:O	38:BG:161:VAL:C	2.44	0.59
40:BI:47:LYS:O	40:BI:48:VAL:C	2.44	0.59
40:BI:137:SER:O	40:BI:138:THR:CB	2.50	0.59
42:BK:73:GLY:O	42:BK:76:ALA:HB2	2.02	0.59
44:BO:83:LYS:N	44:BO:85:THR:N	2.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:56:ASP:O	45:BP:59:ARG:CB	2.50	0.59
47:BR:92:ARG:O	47:BR:94:PHE:N	2.35	0.59
1:C1:85:A:O2'	1:C1:86:A:P	2.60	0.59
1:C1:93:A:H8	1:C1:398:G:H2'	1.65	0.59
1:C1:269:G:C6	1:C1:270:C:N4	2.70	0.59
1:C1:288:A:C4	1:C1:289:U:C5	2.90	0.59
1:C1:323:A:O2'	1:C1:324:U:H5'	2.01	0.59
1:C1:337:G:H5"	1:C1:338:C:C5	2.37	0.59
1:C1:612:U:H5'	1:C1:613:G:H3'	1.84	0.59
1:C1:730:G:C2'	1:C1:731:C:H5'	2.32	0.59
1:C1:735:C:H2'	1:C1:736:C:C6	2.37	0.59
1:C1:747:C:H2'	1:C1:748:U:C6	2.37	0.59
1:C1:1032:G:N3	1:C1:1033:C:C6	2.70	0.59
1:C1:1161:C:H1'	1:C1:1620:C:H42	1.67	0.59
1:C1:1284:C:O2	1:C1:1286:U:C4	2.55	0.59
1:C1:1458:G:N3	1:C1:1458:G:C2'	2.61	0.59
6:CE:82:ARG:O	6:CE:148:VAL:O	2.20	0.59
9:CH:78:ALA:HA	9:CH:110:LEU:HA	1.84	0.59
12:CK:7:LYS:C	12:CK:9:VAL:H	2.08	0.59
17:CP:127:VAL:CA	17:CP:129:GLY:N	2.65	0.59
29:D1:67:A:C8	29:D1:317:A:H1'	2.37	0.59
29:D1:106:A:O2'	29:D1:107:A:H5'	2.02	0.59
29:D1:124:U:H2'	29:D1:125:C:C1'	2.31	0.59
29:D1:505:G:H2'	29:D1:506:U:O5'	2.02	0.59
29:D1:575:G:O2'	29:D1:576:C:O5'	2.18	0.59
29:D1:665:A:O2'	29:D1:666:A:H5'	2.01	0.59
29:D1:702:C:H2'	29:D1:703:G:O4'	2.02	0.59
29:D1:759:U:C2'	29:D1:760:G:H5"	2.31	0.59
29:D1:767:U:O3'	29:D1:768:C:H4'	2.02	0.59
29:D1:792:G:H2'	29:D1:793:C:C6	2.37	0.59
29:D1:810:A:N3	29:D1:810:A:H2'	2.16	0.59
29:D1:858:A:H5"	29:D1:858:A:C8	2.36	0.59
29:D1:931:C:C2	29:D1:932:U:C5	2.90	0.59
29:D1:1013:G:N2	29:D1:1038:C:C2	2.70	0.59
29:D1:1256:G:C5	29:D1:1257:C:C6	2.90	0.59
29:D1:1257:C:O2	29:D1:1257:C:C2'	2.48	0.59
29:D1:1310:G:H2'	29:D1:1311:G:O5'	2.01	0.59
29:D1:1454:A:H5"	29:D1:1878:G:N1	2.16	0.59
29:D1:1949:G:H2'	29:D1:1950:U:H6	1.66	0.59
29:D1:2101:C:O2'	29:D1:2102:U:H5'	2.01	0.59
29:D1:2277:C:H5"	29:D1:2317:A:C4'	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2338:C:H4'	50:DU:47:ASN:O	2.02	0.59
29:D1:2702:A:O4'	29:D1:2704:A:C8	2.55	0.59
29:D1:2728:G:N3	29:D1:2728:G:C2'	2.60	0.59
29:D1:3006:A:H2	29:D1:3141:A:C2	2.20	0.59
29:D1:3231:U:O2	29:D1:3256:G:N2	2.35	0.59
29:D1:3374:U:C2	29:D1:3375:A:C2	2.90	0.59
30:D2:9:C:C2'	30:D2:13:A:N6	2.60	0.59
31:D3:54:A:C6	31:D3:55:U:C2	2.90	0.59
31:D3:138:A:H2	31:D3:139:U:N1	1.99	0.59
34:DC:106:TRP:C	34:DC:108:GLU:H	2.08	0.59
34:DC:196:ARG:O	34:DC:197:GLU:O	2.20	0.59
34:DC:271:GLY:O	34:DC:273:HIS:N	2.35	0.59
35:DD:53:SER:O	35:DD:55:LYS:N	2.35	0.59
36:DE:222:LEU:O	36:DE:224:LYS:N	2.35	0.59
37:DF:162:SER:O	37:DF:165:LEU:N	2.35	0.59
49:DT:35:LYS:O	49:DT:37:GLY:N	2.35	0.59
1:A1:341:A:N3	1:A1:341:A:H2'	2.16	0.59
1:A1:359:A:H3'	1:A1:359:A:OP1	2.01	0.59
1:A1:525:A:OP1	1:A1:526:A:N7	2.35	0.59
1:A1:832:U:H3'	1:A1:833:U:H5"	1.83	0.59
1:A1:1384:A:H2'	1:A1:1385:G:H8	1.66	0.59
1:A1:1537:C:H5'	1:A1:1538:U:OP1	2.02	0.59
1:A1:1576:A:H2'	1:A1:1577:A:O4'	2.01	0.59
1:A1:1584:G:C4	1:A1:1584:G:H3'	2.37	0.59
1:A1:1607:G:C6	1:A1:1608:U:C4	2.90	0.59
1:A1:1631:A:C5	1:A1:1632:C:C2	2.89	0.59
1:A1:1763:A:C2'	1:A1:1764:C:H5"	2.31	0.59
2:AA:54:TRP:O	2:AA:57:LEU:N	2.35	0.59
4:AC:95:GLY:O	4:AC:96:LEU:CB	2.49	0.59
4:AC:104:SER:O	4:AC:107:PHE:N	2.31	0.59
5:AD:215:ASP:O	5:AD:216:GLU:C	2.44	0.59
10:AI:21:ASP:O	10:AI:23:GLU:N	2.34	0.59
24:Ac:62:UNK:O	24:Ac:63:UNK:O	2.20	0.59
29:B1:208:C:N4	29:B1:209:A:H62	1.99	0.59
29:B1:258:G:C8	29:B1:258:G:OP2	2.55	0.59
29:B1:290:G:H2'	29:B1:291:C:C6	2.36	0.59
29:B1:306:A:H2	29:B1:307:A:N9	2.00	0.59
29:B1:416:A:N3	29:B1:417:A:C8	2.70	0.59
29:B1:518:G:P	29:B1:520:U:H5	2.25	0.59
29:B1:528:U:O4	29:B1:564:G:O6	2.21	0.59
29:B1:559:A:H2'	29:B1:560:G:C8	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:570:A:C5	29:B1:571:U:C5	2.90	0.59
29:B1:719:U:HO2'	29:B1:720:A:H8	1.45	0.59
29:B1:720:A:H4'	29:B1:721:G:OP2	2.00	0.59
29:B1:746:A:H8	29:B1:746:A:O5'	1.84	0.59
29:B1:1007:U:O2	29:B1:1007:U:H2'	2.01	0.59
29:B1:1040:A:C6	29:B1:1041:U:C5	2.91	0.59
29:B1:1246:G:C6	29:B1:1247:U:H1'	2.36	0.59
29:B1:1469:C:C2	29:B1:1509:A:C2	2.90	0.59
29:B1:1478:C:C5'	29:B1:1478:C:C6	2.85	0.59
29:B1:1560:G:H2'	29:B1:1561:G:O4'	2.02	0.59
29:B1:1630:U:H3'	29:B1:1813:A:N1	2.17	0.59
29:B1:1728:G:N2	29:B1:1730:G:N2	2.50	0.59
29:B1:2152:A:H1'	29:B1:2243:A:N3	2.16	0.59
29:B1:2383:C:C2'	29:B1:2384:A:O5'	2.50	0.59
29:B1:2674:A:C1'	42:BK:108:GLU:H	2.14	0.59
29:B1:2937:G:H2'	29:B1:2938:G:H5'	1.84	0.59
29:B1:2949:U:C2	29:B1:2950:G:N7	2.71	0.59
29:B1:2997:G:C1'	29:B1:2998:U:P	2.84	0.59
29:B1:3057:U:O3'	29:B1:3058:U:H4'	2.03	0.59
29:B1:3099:C:C5'	29:B1:3099:C:C6	2.85	0.59
29:B1:3271:G:C4	29:B1:3271:G:H3'	2.37	0.59
30:B2:10:C:O2'	30:B2:13:A:H8	1.85	0.59
30:B2:11:A:C4'	30:B2:13:A:H2'	2.32	0.59
31:B3:107:G:C2	31:B3:116:G:C5	2.90	0.59
36:BE:50:ARG:HA	36:BE:145:PHE:H	1.67	0.59
36:BE:141:PRO:CB	36:BE:142:PHE:CA	2.73	0.59
38:BG:237:ASN:O	38:BG:241:LYS:N	2.32	0.59
45:BP:92:THR:O	45:BP:93:ALA:C	2.45	0.59
45:BP:137:THR:O	45:BP:140:LYS:N	2.32	0.59
46:BQ:5:GLY:N	46:BQ:6:ALA:HA	2.12	0.59
1:C1:25:C:C6	1:C1:25:C:C3'	2.85	0.59
1:C1:240:U:O2'	1:C1:241:U:H5'	2.02	0.59
1:C1:385:A:O2'	1:C1:386:G:H5'	2.02	0.59
1:C1:623:A:H2	1:C1:1105:C:O2'	1.84	0.59
1:C1:1056:U:H1'	1:C1:1064:G:N2	2.17	0.59
1:C1:1086:A:H2	1:C1:1141:G:N3	1.99	0.59
1:C1:1265:G:O5'	1:C1:1265:G:H8	1.85	0.59
1:C1:1391:A:N1	1:C1:1409:G:N2	2.49	0.59
1:C1:1419:G:H2'	1:C1:1420:C:O5'	2.02	0.59
1:C1:1525:A:C2	1:C1:1526:A:C4	2.90	0.59
1:C1:1532:U:H2'	1:C1:1533:C:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1597:A:C5	1:C1:1598:U:N3	2.70	0.59
1:C1:1720:G:C8	1:C1:1721:A:N7	2.69	0.59
3:CB:206:THR:O	3:CB:209:ASN:N	2.35	0.59
4:CC:76:ARG:O	4:CC:78:LYS:N	2.35	0.59
15:CN:45:ALA:HB1	15:CN:49:ASN:CB	2.32	0.59
17:CP:132:LEU:CB	17:CP:134:ALA:O	2.50	0.59
29:D1:13:A:H2	29:D1:15:C:C3'	2.15	0.59
29:D1:28:C:O2'	29:D1:61:A:N3	2.36	0.59
29:D1:34:A:H5'	29:D1:35:A:OP2	2.02	0.59
29:D1:196:G:C6	29:D1:199:A:OP2	2.55	0.59
29:D1:281:G:O6	29:D1:282:G:O6	2.20	0.59
29:D1:523:A:C2	29:D1:524:U:C6	2.91	0.59
29:D1:588:G:C4'	29:D1:589:A:N7	2.58	0.59
29:D1:1106:G:C6	29:D1:1107:C:C5	2.90	0.59
29:D1:1140:G:N3	29:D1:1141:C:C6	2.70	0.59
29:D1:1338:C:C2	29:D1:1339:C:C5	2.90	0.59
29:D1:1388:U:O4	29:D1:1389:G:O6	2.20	0.59
29:D1:1452:A:C1'	29:D1:2347:U:H5"	2.29	0.59
29:D1:1464:G:H22	29:D1:1466:G:H3'	1.65	0.59
29:D1:1505:C:H5"	29:D1:1505:C:C6	2.37	0.59
29:D1:2609:A:N3	29:D1:2610:G:C8	2.69	0.59
29:D1:2611:U:C2'	29:D1:2612:U:H6	2.06	0.59
29:D1:2914:G:H2'	29:D1:2915:U:H6	1.66	0.59
29:D1:2918:G:N2	29:D1:2919:A:C8	2.70	0.59
29:D1:3026:G:O6	74:D1:3413:OHX:N6	2.34	0.59
29:D1:3110:C:H2'	29:D1:3111:U:H6	1.66	0.59
29:D1:3117:C:C5	29:D1:3118:C:C5	2.90	0.59
29:D1:3202:G:C2	29:D1:3203:U:N3	2.70	0.59
29:D1:3203:U:H2'	29:D1:3204:C:N1	2.17	0.59
29:D1:3323:A:H2'	29:D1:3324:C:O5'	2.01	0.59
29:D1:3379:C:O2'	29:D1:3380:U:H5'	2.02	0.59
30:D2:27:A:C2	30:D2:54:U:H5	2.20	0.59
30:D2:113:C:O2'	30:D2:114:U:O4'	2.13	0.59
31:D3:78:G:H21	60:De:26:TRP:CB	2.14	0.59
33:DB:102:LEU:C	33:DB:104:LEU:H	2.10	0.59
36:DE:156:GLY:HA2	36:DE:181:PRO:HA	1.84	0.59
44:DO:148:TYR:O	44:DO:150:TRP:N	2.35	0.59
45:DP:81:TYR:O	45:DP:83:ALA:N	2.35	0.59
47:DR:77:ALA:C	47:DR:79:LYS:H	2.08	0.59
62:Dg:86:LEU:O	62:Dg:89:MET:O	2.19	0.59
1:A1:104:A:H2'	1:A1:106:U:OP1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:235:G:H2'	1:A1:236:A:C8	2.37	0.59
1:A1:391:A:C6	1:A1:392:G:C5	2.91	0.59
1:A1:450:U:H2'	1:A1:451:A:H8	1.64	0.59
1:A1:454:U:O2'	1:A1:455:C:O4'	2.20	0.59
1:A1:515:A:H5'	74:A1:1936:OHX:N5	2.16	0.59
1:A1:1076:A:N7	1:A1:1077:C:C6	2.70	0.59
1:A1:1147:A:H2'	1:A1:1148:C:O4'	2.03	0.59
1:A1:1348:A:H3'	1:A1:1349:G:C5'	2.31	0.59
1:A1:1478:G:H5'	1:A1:1478:G:C8	2.31	0.59
1:A1:1558:U:H5"	13:AL:122:HIS:CB	2.32	0.59
1:A1:1567:U:H6	1:A1:1567:U:H5'	1.67	0.59
1:A1:1675:C:O2'	1:A1:1678:A:C8	2.55	0.59
1:A1:1687:U:C4	1:A1:1688:U:H1'	2.37	0.59
1:A1:1753:A:C6	1:A1:1754:A:N6	2.66	0.59
4:AC:21:LEU:O	4:AC:23:GLU:N	2.36	0.59
5:AD:162:VAL:O	5:AD:164:PRO:N	2.35	0.59
5:AD:196:GLU:HA	5:AD:199:ILE:CB	2.33	0.59
7:AF:75:VAL:HA	7:AF:86:ILE:CA	2.33	0.59
11:AJ:40:GLU:C	11:AJ:42:GLU:N	2.60	0.59
11:AJ:91:ALA:HB3	11:AJ:96:TYR:CB	2.32	0.59
12:AK:53:TYR:O	12:AK:56:HIS:CB	2.50	0.59
29:B1:189:G:N3	29:B1:191:U:C4	2.69	0.59
29:B1:221:A:C5	29:B1:224:C:C4	2.90	0.59
29:B1:383:G:C3'	29:B1:385:A:OP2	2.48	0.59
29:B1:421:G:N2	29:B1:2365:C:N1	2.49	0.59
29:B1:536:U:C1'	29:B1:537:A:OP2	2.51	0.59
29:B1:560:G:N2	29:B1:561:C:C2	2.70	0.59
29:B1:747:A:C8	29:B1:747:A:OP1	2.55	0.59
29:B1:784:A:N3	29:B1:785:G:N7	2.50	0.59
29:B1:971:G:O2'	29:B1:972:A:H5'	2.01	0.59
29:B1:1155:C:O2	29:B1:1155:C:H2'	2.02	0.59
29:B1:1176:C:H3'	29:B1:1177:G:H5"	1.83	0.59
29:B1:1247:U:H3	29:B1:1274:A:N6	1.99	0.59
29:B1:1265:U:C2	29:B1:1266:G:C8	2.91	0.59
29:B1:1287:A:O2'	29:B1:1288:U:H5'	2.02	0.59
29:B1:1697:A:C8	29:B1:1698:C:C5	2.90	0.59
29:B1:1919:G:N2	29:B1:1920:U:O2	2.35	0.59
29:B1:1930:A:C8	29:B1:1932:A:O4'	2.55	0.59
29:B1:1953:G:C8	29:B1:2093:A:C6	2.91	0.59
29:B1:2152:A:O4'	29:B1:2243:A:C2	2.54	0.59
29:B1:2165:G:N2	29:B1:2170:U:N3	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2540:A:O2'	29:B1:2541:U:H5'	2.02	0.59
29:B1:2681:U:O2'	29:B1:2682:C:P	2.61	0.59
29:B1:2761:G:H4'	29:B1:2762:A:OP1	2.01	0.59
29:B1:2853:A:N6	29:B1:2854:U:H3	2.00	0.59
29:B1:3000:A:C2'	29:B1:3001:C:H6	2.15	0.59
29:B1:3078:U:H4'	29:B1:3079:U:H5'	1.84	0.59
29:B1:3196:U:C5	29:B1:3198:U:C6	2.91	0.59
29:B1:3221:C:C2	29:B1:3222:U:C5	2.90	0.59
29:B1:3273:A:N6	29:B1:3274:A:N7	2.50	0.59
29:B1:3314:A:H3'	34:BC:118:PHE:O	2.02	0.59
30:B2:67:G:C6	30:B2:68:C:N3	2.70	0.59
31:B3:10:A:C4	31:B3:11:C:C5	2.90	0.59
31:B3:48:A:C5	31:B3:51:G:N7	2.70	0.59
36:BE:130:GLU:HA	36:BE:131:LEU:CB	2.30	0.59
38:BG:233:GLU:N	38:BG:234:GLU:O	2.35	0.59
56:Ba:58:ALA:O	56:Ba:59:ILE:C	2.45	0.59
65:Bk:5:UNK:O	65:Bk:9:UNK:CB	2.51	0.59
66:Bl:11:UNK:O	66:Bl:12:UNK:C	2.50	0.59
1:C1:84:A:H2'	1:C1:85:A:C5'	2.15	0.59
1:C1:605:A:C5	1:C1:606:A:C6	2.91	0.59
1:C1:607:G:C4'	1:C1:608:U:OP2	2.50	0.59
1:C1:647:G:C2	1:C1:687:G:N2	2.70	0.59
1:C1:1024:U:OP1	1:C1:1127:G:O2'	2.20	0.59
1:C1:1053:G:H2'	1:C1:1054:U:C6	2.36	0.59
1:C1:1075:C:C4	1:C1:1076:A:N1	2.70	0.59
1:C1:1374:C:C4	1:C1:1375:A:C6	2.90	0.59
1:C1:1584:G:C4	11:CJ:124:PRO:HA	2.37	0.59
1:C1:1607:G:OP2	11:CJ:125:GLU:HA	2.02	0.59
1:C1:1663:G:H2'	1:C1:1664:C:C6	2.31	0.59
3:CB:106:ASP:O	3:CB:108:ASN:N	2.29	0.59
6:CE:68:LYS:C	6:CE:70:LEU:N	2.57	0.59
7:CF:110:HIS:CB	7:CF:138:ASN:HA	2.32	0.59
10:CI:116:LEU:C	10:CI:118:GLU:H	2.11	0.59
19:CR:7:VAL:O	19:CR:8:THR:C	2.46	0.59
21:CT:18:GLY:O	21:CT:308:ASN:HA	2.02	0.59
23:Cb:126:UNK:CB	23:Cb:133:UNK:N	2.65	0.59
28:Ch:9:UNK:O	28:Ch:12:UNK:N	2.36	0.59
29:D1:158:G:C8	29:D1:159:A:H4'	2.37	0.59
29:D1:302:U:O2'	29:D1:303:G:H5'	2.02	0.59
29:D1:641:C:OP1	74:D1:3502:OHX:N6	2.35	0.59
29:D1:677:A:N6	29:D1:786:A:O2'	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:688:G:H8	29:D1:688:G:O5'	1.84	0.59
29:D1:783:A:N6	74:D1:3537:OHX:N6	2.50	0.59
29:D1:1057:A:N6	29:D1:1058:U:C4	2.70	0.59
29:D1:1077:U:N3	29:D1:1083:G:N2	2.50	0.59
29:D1:1115:G:C8	29:D1:1115:G:C3'	2.83	0.59
29:D1:1155:C:O2	29:D1:1155:C:C2'	2.46	0.59
29:D1:1200:A:H3'	29:D1:1200:A:N3	2.16	0.59
29:D1:1274:A:C6	29:D1:1275:C:C5	2.91	0.59
29:D1:1298:C:C4	29:D1:1299:U:C5	2.90	0.59
29:D1:1358:C:H2'	29:D1:1359:C:C6	2.37	0.59
29:D1:1461:A:H2'	29:D1:1462:A:O4'	2.02	0.59
29:D1:1495:U:H3'	29:D1:1496:C:C5'	2.32	0.59
29:D1:1655:G:H5'	29:D1:1656:A:O5'	2.02	0.59
29:D1:1785:U:O2'	29:D1:1786:G:C8	2.55	0.59
29:D1:2431:C:H2'	29:D1:2432:A:C8	2.36	0.59
29:D1:2431:C:C2	29:D1:2432:A:C8	2.90	0.59
29:D1:2522:G:C1'	29:D1:2523:A:P	2.88	0.59
29:D1:3328:G:N2	29:D1:3329:U:C4	2.69	0.59
31:D3:37:A:H2	31:D3:106:C:H42	1.46	0.59
31:D3:141:C:C2	31:D3:142:C:H5	2.20	0.59
36:DE:111:GLN:O	36:DE:115:LEU:CB	2.50	0.59
36:DE:196:ARG:O	36:DE:197:SER:C	2.45	0.59
40:DI:86:TYR:CB	40:DI:148:GLY:O	2.49	0.59
49:DT:35:LYS:C	49:DT:37:GLY:H	2.10	0.59
1:A1:379:U:C2	1:A1:380:U:H5	2.19	0.59
1:A1:576:G:O6	17:AP:65:ASN:HA	2.02	0.59
1:A1:814:A:C2'	1:A1:816:G:H21	2.16	0.59
1:A1:971:A:C8	1:A1:972:G:C8	2.91	0.59
1:A1:1172:G:H2'	1:A1:1173:C:C6	2.38	0.59
1:A1:1616:G:N2	1:A1:1618:C:H41	1.93	0.59
4:AC:191:ASP:C	4:AC:193:ALA:H	2.09	0.59
11:AJ:28:LEU:HA	14:AM:1:MET:HA	1.85	0.59
13:AL:71:GLN:HA	13:AL:75:ASN:CB	2.33	0.59
16:AO:13:ALA:O	16:AO:17:ALA:HB2	2.01	0.59
29:B1:40:A:C3'	29:B1:41:G:H5'	2.32	0.59
29:B1:69:C:N3	29:B1:70:A:H1'	2.17	0.59
29:B1:97:U:C6	29:B1:97:U:H5"	2.38	0.59
29:B1:171:G:C2	29:B1:172:G:C8	2.91	0.59
29:B1:285:A:C2	29:B1:305:U:P	2.96	0.59
29:B1:380:U:C4	29:B1:381:U:O4	2.56	0.59
29:B1:504:A:O2'	29:B1:505:G:H5'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:592:A:H2'	29:B1:593:C:H4'	1.12	0.59
29:B1:628:A:H5"	29:B1:1399:A:N7	2.17	0.59
29:B1:693:A:C2'	29:B1:694:C:H6	2.16	0.59
29:B1:743:C:H3'	29:B1:743:C:C6	2.37	0.59
29:B1:774:G:H2'	29:B1:775:A:O4'	2.03	0.59
29:B1:809:G:N3	29:B1:810:A:C8	2.70	0.59
29:B1:826:G:N2	29:B1:1589:A:H62	1.93	0.59
29:B1:1203:A:H2	29:B1:2855:U:O2	1.85	0.59
29:B1:1205:A:H5"	29:B1:1206:G:OP2	2.02	0.59
29:B1:1366:A:H2'	29:B1:1367:G:C8	2.37	0.59
29:B1:1389:G:HO2'	29:B1:1390:A:P	2.24	0.59
29:B1:1389:G:C6	29:B1:1419:A:N6	2.69	0.59
29:B1:1844:C:N3	29:B1:1845:G:N7	2.50	0.59
29:B1:2137:U:H3	29:B1:2141:U:H5	1.51	0.59
29:B1:2546:C:N4	29:B1:2547:A:H62	2.00	0.59
29:B1:2609:A:C2	29:B1:2610:G:C5	2.89	0.59
29:B1:2831:G:C6	29:B1:2832:C:C4	2.90	0.59
29:B1:3021:A:O4'	29:B1:3023:U:C2	2.55	0.59
29:B1:3112:G:N2	29:B1:3121:U:C2	2.70	0.59
29:B1:3280:U:OP2	29:B1:3280:U:C6	2.55	0.59
30:B2:51:A:H2'	30:B2:51:A:N3	2.18	0.59
31:B3:102:U:C4	31:B3:103:G:C6	2.90	0.59
37:BF:86:ALA:CB	37:BF:87:THR:HA	2.24	0.59
37:BF:99:GLU:O	37:BF:100:LYS:C	2.42	0.59
43:BN:49:PRO:N	43:BN:50:LYS:CA	2.65	0.59
49:BT:34:TYR:O	49:BT:35:LYS:CB	2.50	0.59
1:C1:170:U:H5'	1:C1:267:U:O2'	2.03	0.59
1:C1:239:C:H1'	1:C1:240:U:C6	2.36	0.59
1:C1:564:G:O2'	1:C1:577:G:H4'	2.02	0.59
1:C1:814:A:N1	1:C1:858:G:C2	2.70	0.59
1:C1:961:U:H4'	8:CG:36:GLN:O	2.02	0.59
1:C1:1273:G:H4'	1:C1:1274:C:C4'	2.32	0.59
1:C1:1323:C:H2'	1:C1:1324:G:C1'	2.32	0.59
17:CP:48:HIS:O	17:CP:49:ALA:CB	2.50	0.59
29:D1:51:A:H2'	29:D1:52:A:H8	1.68	0.59
29:D1:62:A:C4	29:D1:63:A:C8	2.90	0.59
29:D1:210:U:C4	35:DD:161:LYS:HA	2.37	0.59
29:D1:271:C:C6	29:D1:295:A:N6	2.71	0.59
29:D1:519:A:H62	37:DF:30:LEU:C	2.11	0.59
29:D1:520:U:N3	37:DF:138:GLN:CB	2.65	0.59
29:D1:652:G:OP1	29:D1:1436:U:O2'	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:682:U:C4	29:D1:699:A:H2	2.20	0.59
29:D1:726:G:C5	29:D1:727:G:N1	2.70	0.59
29:D1:769:G:C4'	29:D1:770:G:OP1	2.50	0.59
29:D1:774:G:H2'	29:D1:775:A:O4'	2.02	0.59
29:D1:779:G:C5	29:D1:780:A:N7	2.70	0.59
29:D1:866:A:H3'	29:D1:867:G:H8	1.66	0.59
29:D1:934:G:C5	29:D1:935:U:C4	2.90	0.59
29:D1:957:C:H2'	29:D1:958:C:H6	1.68	0.59
29:D1:1021:G:H2'	29:D1:1022:U:H6	1.66	0.59
29:D1:1026:A:H4'	29:D1:1027:A:OP2	2.00	0.59
29:D1:1040:A:O5'	29:D1:1040:A:H8	1.86	0.59
29:D1:1055:A:N7	29:D1:1056:U:C4	2.70	0.59
29:D1:1182:A:N3	29:D1:1182:A:H2'	2.17	0.59
29:D1:1721:U:C2	29:D1:1723:A:OP2	2.56	0.59
29:D1:1886:A:O4'	29:D1:3307:A:H5'	2.03	0.59
29:D1:2133:U:H2'	29:D1:2134:G:C5'	2.32	0.59
29:D1:2279:A:C8	29:D1:2288:G:C5	2.89	0.59
29:D1:2309:A:C2	29:D1:2961:G:H2'	2.34	0.59
29:D1:2571:U:H2'	29:D1:2572:C:H5'	1.83	0.59
29:D1:2640:A:N9	29:D1:2641:U:C5	2.69	0.59
29:D1:2714:G:N2	29:D1:2751:G:C4	2.71	0.59
29:D1:2833:A:H2'	29:D1:2833:A:N3	2.18	0.59
29:D1:2833:A:C6	29:D1:2834:G:N7	2.71	0.59
31:D3:43:A:H2'	31:D3:44:A:H8	1.65	0.59
74:D3:202:OHX:N3	74:D3:212:OHX:N3	2.50	0.59
36:DE:94:ASN:C	36:DE:96:ALA:H	2.10	0.59
36:DE:197:SER:O	36:DE:198:TYR:C	2.45	0.59
36:DE:255:PRO:O	36:DE:257:GLU:N	2.35	0.59
37:DF:136:GLU:C	37:DF:138:GLN:N	2.52	0.59
41:DJ:35:ASP:O	41:DJ:36:LEU:C	2.45	0.59
45:DP:92:THR:O	45:DP:94:ARG:N	2.35	0.59
47:DR:117:ALA:CB	47:DR:118:GLY:HA2	2.16	0.59
49:DT:56:PHE:C	49:DT:58:GLN:H	2.11	0.59
51:DV:34:SER:O	51:DV:36:SER:N	2.35	0.59
63:Dh:15:UNK:O	63:Dh:16:UNK:C	2.50	0.59
1:A1:241:U:HO2'	1:A1:242:U:H3	1.48	0.59
1:A1:295:A:C2	1:A1:296:U:O2	2.56	0.59
1:A1:330:G:C8	1:A1:330:G:OP2	2.55	0.59
1:A1:542:A:O2'	1:A1:543:C:P	2.61	0.59
1:A1:605:A:C5	1:A1:606:A:N1	2.70	0.59
1:A1:891:A:N1	1:A1:922:G:C6	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1329:A:C8	1:A1:1330:G:C8	2.90	0.59
1:A1:1338:C:N1	1:A1:1410:A:C2	2.70	0.59
1:A1:1545:A:OP1	13:AL:133:VAL:N	2.33	0.59
1:A1:1586:A:C4	1:A1:1611:A:C2	2.90	0.59
1:A1:1631:A:N9	1:A1:1638:G:N2	2.48	0.59
1:A1:1751:C:O2	1:A1:1751:C:H2'	2.02	0.59
12:AK:55:THR:O	12:AK:59:LYS:N	2.33	0.59
14:AM:7:ARG:O	14:AM:8:ASP:CB	2.51	0.59
29:B1:40:A:N7	29:B1:937:G:C5	2.70	0.59
29:B1:317:A:C2	29:B1:318:A:C4	2.90	0.59
29:B1:423:A:N1	29:B1:424:G:C2	2.70	0.59
29:B1:533:A:N6	29:B1:555:U:O2'	2.35	0.59
29:B1:944:C:C6	29:B1:1431:G:C6	2.90	0.59
29:B1:1131:G:C5	29:B1:2373:A:C2	2.91	0.59
29:B1:1285:G:H2'	29:B1:1286:A:O5'	2.02	0.59
29:B1:1401:A:H2'	29:B1:1402:C:H6	1.66	0.59
29:B1:2135:U:H2'	29:B1:2136:C:H6	1.68	0.59
29:B1:2919:A:C3'	29:B1:2920:U:C5'	2.81	0.59
29:B1:3069:G:N3	29:B1:3070:A:C8	2.70	0.59
29:B1:3180:A:N1	45:BP:166:GLU:CB	2.65	0.59
29:B1:3194:C:N4	29:B1:3196:U:OP1	2.35	0.59
29:B1:3246:G:H2'	29:B1:3247:G:H8	1.67	0.59
29:B1:3261:C:C5'	29:B1:3262:U:OP1	2.50	0.59
29:B1:3356:G:H2'	29:B1:3357:U:C4'	2.32	0.59
29:B1:3393:U:N3	29:B1:3394:U:C5	2.71	0.59
30:B2:11:A:C2	30:B2:67:G:O2'	2.51	0.59
30:B2:68:C:C2'	30:B2:69:C:O4'	2.49	0.59
31:B3:45:C:H2'	31:B3:46:G:O4'	2.02	0.59
33:BB:112:ILE:HA	33:BB:165:VAL:H	1.67	0.59
33:BB:172:GLY:C	33:BB:174:ARG:N	2.59	0.59
34:BC:40:PRO:O	34:BC:41:VAL:C	2.46	0.59
34:BC:63:PRO:HA	34:BC:68:HIS:CB	2.32	0.59
35:BD:193:LYS:C	35:BD:195:ARG:H	2.10	0.59
45:BP:60:LYS:O	45:BP:61:ALA:O	2.21	0.59
45:BP:95:GLY:O	45:BP:98:ALA:N	2.36	0.59
50:BU:53:SER:O	50:BU:55:GLY:N	2.34	0.59
53:BX:78:PHE:O	53:BX:79:ALA:HB2	2.01	0.59
59:Bd:41:ALA:O	59:Bd:43:LYS:N	2.35	0.59
65:Bk:9:UNK:C	65:Bk:11:UNK:N	2.64	0.59
71:Br:8:UNK:O	71:Br:10:UNK:N	2.34	0.59
1:C1:123:G:C5	1:C1:124:A:C8	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:169:A:C4	1:C1:171:A:C5	2.90	0.59
1:C1:169:A:O2'	1:C1:171:A:H8	1.82	0.59
1:C1:225:A:O2'	1:C1:226:A:H8	1.84	0.59
1:C1:262:U:C4	1:C1:263:C:N4	2.71	0.59
1:C1:492:A:C4	1:C1:494:U:H5"	2.36	0.59
1:C1:588:U:H2'	1:C1:589:C:C6	2.38	0.59
1:C1:943:C:H5"	1:C1:944:A:OP2	2.02	0.59
1:C1:1000:C:H2'	1:C1:1002:G:N7	2.18	0.59
1:C1:1039:A:O2'	1:C1:1040:G:P	2.61	0.59
1:C1:1145:U:H3'	1:C1:1146:G:H5"	1.85	0.59
1:C1:1275:A:OP1	1:C1:1275:A:H8	1.83	0.59
1:C1:1282:U:H5"	1:C1:1283:U:OP2	2.03	0.59
1:C1:1325:A:C2	1:C1:1326:A:N7	2.71	0.59
1:C1:1369:U:O4	74:C1:1912:OHX:N3	2.35	0.59
1:C1:1505:A:N7	1:C1:1506:G:H1'	2.17	0.59
1:C1:1607:G:C6	1:C1:1608:U:C4	2.90	0.59
1:C1:1618:C:H5'	1:C1:1619:C:OP2	2.02	0.59
1:C1:1721:A:H3'	1:C1:1722:A:C5'	2.33	0.59
1:C1:1771:U:C2	1:C1:1772:C:C5	2.90	0.59
3:CB:203:LYS:C	3:CB:205:ARG:H	2.09	0.59
9:CH:42:VAL:O	9:CH:43:THR:O	2.20	0.59
11:CJ:28:LEU:H	14:CM:1:MET:CB	2.15	0.59
18:CQ:41:ILE:HA	18:CQ:44:GLN:N	2.09	0.59
20:CS:41:GLN:CB	74:CS:101:OHX:N1	2.65	0.59
29:D1:22:G:C5	29:D1:23:A:C8	2.90	0.59
29:D1:285:A:C2	29:D1:305:U:P	2.96	0.59
29:D1:536:U:C6	29:D1:536:U:O5'	2.56	0.59
29:D1:562:C:C2'	29:D1:563:U:C5	2.73	0.59
29:D1:564:G:C3'	29:D1:565:U:H6	2.14	0.59
29:D1:742:G:C3'	29:D1:743:C:H5"	2.31	0.59
29:D1:749:C:H2'	29:D1:750:G:C8	2.36	0.59
29:D1:1054:A:OP1	74:D1:3591:OHX:N1	2.35	0.59
29:D1:1237:G:N1	29:D1:1252:A:C2	2.71	0.59
29:D1:1415:U:C2	29:D1:1416:C:H5	2.21	0.59
29:D1:1681:U:H5'	29:D1:1682:U:OP2	2.03	0.59
29:D1:2175:U:H4'	29:D1:2176:U:OP2	2.03	0.59
29:D1:2326:A:C6	29:D1:2327:U:C4	2.90	0.59
29:D1:2650:U:O2	29:D1:2650:U:C2'	2.48	0.59
29:D1:2677:G:H3'	29:D1:2677:G:N3	2.18	0.59
29:D1:2774:C:O2'	29:D1:2775:U:H5'	2.02	0.59
29:D1:2821:C:H3'	29:D1:2821:C:H6	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2942:C:OP1	29:D1:2943:G:OP1	2.21	0.59
29:D1:3091:A:C2	29:D1:3094:A:O4'	2.55	0.59
29:D1:3102:G:C2'	29:D1:3103:A:O5'	2.50	0.59
29:D1:3184:A:C2	29:D1:3188:G:O2'	2.53	0.59
29:D1:3189:G:C4	29:D1:3190:C:C6	2.91	0.59
29:D1:3210:A:H3'	29:D1:3211:C:C5	2.34	0.59
29:D1:3341:U:C4	29:D1:3362:A:C2	2.90	0.59
29:D1:3350:C:O3'	29:D1:3354:U:C5	2.55	0.59
30:D2:15:C:N4	30:D2:16:U:C4	2.70	0.59
30:D2:72:A:H2'	30:D2:73:C:H6	1.66	0.59
34:DC:63:PRO:HA	34:DC:68:HIS:CB	2.32	0.59
35:DD:234:ASN:C	35:DD:236:LEU:N	2.59	0.59
38:DG:194:HIS:O	38:DG:195:PHE:C	2.45	0.59
38:DG:233:GLU:CB	38:DG:234:GLU:CB	2.81	0.59
40:DI:85:GLY:HA3	40:DI:187:ILE:C	2.27	0.59
43:DN:76:ALA:C	43:DN:78:THR:H	2.11	0.59
52:DW:69:SER:N	52:DW:72:ALA:HB3	2.14	0.59
54:DY:83:PRO:CB	54:DY:84:GLU:HA	2.33	0.59
57:Db:8:LYS:C	57:Db:10:VAL:H	2.10	0.59
59:Dd:5:THR:O	59:Dd:7:SER:O	2.20	0.59
1:A1:269:G:H2'	1:A1:270:C:H6	1.66	0.59
1:A1:339:C:H2'	1:A1:340:U:H6	1.66	0.59
1:A1:518:A:N6	1:A1:535:A:H1'	2.17	0.59
1:A1:554:C:O3'	1:A1:555:A:H2'	2.01	0.59
1:A1:889:U:O2'	1:A1:890:C:H5'	2.01	0.59
1:A1:1118:G:C6	1:A1:1119:G:C5	2.90	0.59
1:A1:1174:C:H4'	1:A1:1601:G:C6	2.37	0.59
1:A1:1358:G:HO2'	14:AM:129:GLN:C	2.09	0.59
1:A1:1458:G:N3	1:A1:1458:G:C2'	2.65	0.59
1:A1:1513:G:H2'	1:A1:1514:U:OP1	2.02	0.59
6:AE:111:THR:O	6:AE:113:VAL:N	2.36	0.59
8:AG:91:LEU:O	8:AG:95:ALA:HB3	2.03	0.59
17:AP:79:ASN:C	17:AP:81:LYS:H	2.09	0.59
21:AT:50:ASP:H	21:AT:54:PHE:HA	1.67	0.59
29:B1:106:A:H5"	29:B1:684:G:O3'	2.03	0.59
29:B1:269:G:N1	29:B1:294:U:C5	2.71	0.59
29:B1:287:G:C4	29:B1:288:C:C5	2.91	0.59
29:B1:311:C:C4	29:B1:312:C:C5	2.91	0.59
29:B1:436:A:H8	29:B1:436:A:O5'	1.85	0.59
29:B1:540:U:C2	29:B1:541:U:C5	2.89	0.59
29:B1:547:G:H5"	29:B1:548:G:N7	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:876:A:O2'	29:B1:877:C:H5'	2.00	0.59
29:B1:892:U:H2'	29:B1:893:C:O4'	2.01	0.59
29:B1:943:U:C1'	29:B1:1432:C:C6	2.85	0.59
29:B1:952:A:C8	29:B1:952:A:C3'	2.85	0.59
29:B1:1057:A:C5	29:B1:1058:U:C5	2.91	0.59
29:B1:1145:G:O2'	57:Bb:45:ARG:O	2.19	0.59
29:B1:1169:A:N1	29:B1:1330:A:C5	2.71	0.59
29:B1:1247:U:OP1	29:B1:1248:C:H5	1.85	0.59
29:B1:1336:U:O2'	29:B1:1337:A:H5'	2.02	0.59
29:B1:1495:U:O2'	29:B1:1514:G:H4'	2.03	0.59
29:B1:1640:G:O5'	29:B1:1640:G:H8	1.86	0.59
29:B1:1671:C:H2'	29:B1:1671:C:O2	2.01	0.59
29:B1:1731:A:N7	29:B1:1732:U:C5	2.70	0.59
29:B1:1784:G:O2'	29:B1:1785:U:H5'	2.03	0.59
29:B1:1900:A:O2'	29:B1:1906:G:N7	2.32	0.59
29:B1:2131:A:H61	62:Bg:18:TYR:HA	1.68	0.59
29:B1:2296:A:C2	29:B1:2919:A:H1'	2.38	0.59
29:B1:3321:C:C2	29:B1:3322:A:N7	2.69	0.59
74:B1:3537:OHX:N3	38:BG:217:PRO:O	2.36	0.59
30:B2:64:A:C1'	30:B2:65:G:O5'	2.49	0.59
35:BD:119:ARG:O	35:BD:121:ALA:N	2.35	0.59
38:BG:47:ARG:O	38:BG:50:ALA:HB3	2.02	0.59
40:BI:111:PHE:CA	40:BI:112:ILE:C	2.75	0.59
45:BP:194:LEU:O	45:BP:195:ALA:C	2.46	0.59
46:BQ:6:ALA:O	46:BQ:8:SER:N	2.36	0.59
46:BQ:68:GLY:O	46:BQ:69:ARG:O	2.20	0.59
50:BU:127:PRO:O	50:BU:130:ALA:HB3	2.03	0.59
1:C1:98:U:H2'	1:C1:99:C:C6	2.37	0.59
1:C1:391:A:C6	1:C1:392:G:C5	2.90	0.59
1:C1:534:A:O3'	1:C1:535:A:H8	1.84	0.59
1:C1:542:A:O2'	1:C1:543:C:P	2.60	0.59
1:C1:881:A:H5"	1:C1:882:U:OP2	2.02	0.59
1:C1:999:U:H2'	1:C1:1000:C:O2	2.03	0.59
1:C1:1035:G:N2	1:C1:1101:G:C4	2.71	0.59
1:C1:1066:C:H2'	1:C1:1067:C:H5'	1.83	0.59
1:C1:1073:G:C6	1:C1:1074:G:N1	2.70	0.59
1:C1:1107:G:HO2'	1:C1:1108:G:P	2.26	0.59
1:C1:1295:G:H1'	1:C1:1321:A:C2	2.37	0.59
1:C1:1347:U:H3	1:C1:1376:C:H41	1.51	0.59
1:C1:1483:A:C5'	1:C1:1521:G:O2'	2.51	0.59
1:C1:1650:U:H5"	1:C1:1651:A:OP2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CJ:40:GLU:C	11:CJ:42:GLU:H	2.11	0.59
11:CJ:40:GLU:O	11:CJ:42:GLU:N	2.34	0.59
29:D1:109:A:N6	29:D1:323:A:H1'	2.18	0.59
29:D1:306:A:H61	29:D1:2783:U:H3	1.50	0.59
29:D1:366:A:N6	29:D1:367:A:C2	2.71	0.59
29:D1:372:A:C6	29:D1:373:A:C5	2.91	0.59
29:D1:381:U:C2	29:D1:388:G:N1	2.70	0.59
29:D1:607:A:H8	29:D1:607:A:P	2.25	0.59
29:D1:624:G:C2	29:D1:625:G:N7	2.71	0.59
29:D1:864:G:O6	29:D1:893:C:H3'	2.03	0.59
29:D1:1129:A:C6	29:D1:1130:A:N6	2.70	0.59
29:D1:1194:G:H2'	29:D1:1309:U:O2	2.02	0.59
29:D1:1403:C:C5'	29:D1:1404:G:OP2	2.51	0.59
29:D1:1482:A:C4'	29:D1:1483:G:OP2	2.40	0.59
29:D1:1602:A:C6	29:D1:1603:A:N1	2.71	0.59
29:D1:1662:G:H2'	29:D1:1663:C:C6	2.38	0.59
29:D1:1714:A:H1'	29:D1:1731:A:C6	2.37	0.59
29:D1:2665:U:N3	29:D1:2706:G:C6	2.68	0.59
29:D1:2677:G:H2'	29:D1:2678:A:O5'	2.01	0.59
29:D1:2868:U:H5"	29:D1:2869:U:OP2	2.03	0.59
29:D1:2971:A:H4'	29:D1:2972:G:O5'	2.03	0.59
29:D1:2986:U:H2'	29:D1:2987:A:C8	2.32	0.59
29:D1:3044:G:O3'	34:DC:12:GLY:CA	2.48	0.59
29:D1:3046:A:C6	29:D1:3047:U:C4	2.90	0.59
29:D1:3234:A:C2	29:D1:3253:G:N2	2.67	0.59
29:D1:3273:A:H2'	29:D1:3274:A:C4'	2.32	0.59
29:D1:3280:U:C2	29:D1:3281:U:C5	2.89	0.59
29:D1:3296:A:C2	29:D1:3297:U:N1	2.70	0.59
30:D2:72:A:O2'	30:D2:73:C:H5'	2.02	0.59
31:D3:49:G:C6	31:D3:50:C:C4	2.89	0.59
31:D3:92:A:C2'	31:D3:93:U:H5'	2.33	0.59
37:DF:56:LYS:C	37:DF:58:LEU:N	2.59	0.59
72:DL:107:ASP:C	72:DL:109:ILE:H	2.11	0.59
59:Dd:40:PRO:C	59:Dd:42:ALA:H	2.09	0.59
60:De:7:PHE:O	60:De:10:LYS:N	2.35	0.59
1:A1:4:C:H2'	1:A1:5:U:H6	1.67	0.59
1:A1:13:C:O3'	3:AB:161:LYS:O	2.19	0.59
1:A1:15:U:C2'	1:A1:16:G:H5'	2.32	0.59
1:A1:55:A:C5	1:A1:426:G:C6	2.90	0.59
1:A1:57:G:C6	1:A1:58:U:C5	2.90	0.59
1:A1:97:C:H2'	1:A1:98:U:O4'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:137:U:H4'	1:A1:138:A:OP2	2.03	0.59
1:A1:183:U:HO2'	1:A1:184:C:H5"	1.67	0.59
1:A1:206:A:N3	1:A1:262:U:C4	2.71	0.59
1:A1:527:A:P	1:A1:528:U:H5'	2.43	0.59
1:A1:755:A:C5	1:A1:756:A:C5	2.90	0.59
1:A1:800:U:H2'	1:A1:800:U:O2	2.03	0.59
1:A1:932:U:H4'	1:A1:933:A:O5'	2.03	0.59
1:A1:1056:U:H1'	1:A1:1064:G:N2	2.16	0.59
1:A1:1144:U:O4'	1:A1:1300:A:N1	2.35	0.59
1:A1:1159:C:H3'	1:A1:1160:A:C5'	2.32	0.59
1:A1:1186:U:OP1	1:A1:1456:C:H1'	2.02	0.59
1:A1:1232:U:O2	1:A1:1233:G:C8	2.56	0.59
1:A1:1294:G:C2	1:A1:1295:G:C8	2.91	0.59
1:A1:1375:A:C2'	1:A1:1376:C:C6	2.84	0.59
1:A1:1472:C:H1'	1:A1:1473:U:OP2	2.02	0.59
1:A1:1483:A:C8	1:A1:1524:A:N7	2.70	0.59
1:A1:1634:C:O2	1:A1:1634:C:C2'	2.50	0.59
1:A1:1793:G:O2'	1:A1:1794:A:O5'	2.20	0.59
13:AL:65:GLU:O	13:AL:67:GLU:N	2.36	0.59
16:AO:102:VAL:O	16:AO:104:LEU:N	2.36	0.59
29:B1:37:U:O2	29:B1:37:U:C2'	2.51	0.59
29:B1:82:C:C2'	29:B1:83:U:O5'	2.47	0.59
29:B1:88:A:C8	29:B1:99:A:N6	2.70	0.59
29:B1:200:C:H41	29:B1:217:U:H2'	1.68	0.59
29:B1:519:A:N6	37:BF:30:LEU:HA	2.16	0.59
29:B1:608:A:C6	29:B1:609:G:N7	2.70	0.59
29:B1:656:A:H3'	29:B1:657:A:C8	2.38	0.59
29:B1:750:G:N1	29:B1:784:A:C1'	2.65	0.59
29:B1:774:G:H2'	29:B1:775:A:H5'	1.81	0.59
29:B1:781:G:O2'	29:B1:782:U:H5'	2.01	0.59
29:B1:784:A:H3'	29:B1:785:G:C5'	2.31	0.59
29:B1:807:A:C8	29:B1:807:A:C3'	2.86	0.59
29:B1:836:A:C4	29:B1:837:A:C8	2.91	0.59
29:B1:962:A:C3'	29:B1:963:G:H5"	2.33	0.59
29:B1:1878:G:H3'	29:B1:1878:G:H8	1.68	0.59
29:B1:2112:U:C1'	29:B1:2113:A:OP2	2.50	0.59
29:B1:2143:A:H3'	29:B1:2143:A:C8	2.37	0.59
29:B1:2580:A:C1'	29:B1:2581:U:OP2	2.51	0.59
29:B1:2631:U:C4	29:B1:2648:G:N1	2.70	0.59
29:B1:2802:A:C8	61:Bf:55:LYS:O	2.55	0.59
29:B1:2883:U:C2'	29:B1:2884:C:H6	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2900:A:N3	29:B1:2901:G:C8	2.71	0.59
29:B1:2925:C:H2'	29:B1:2926:A:O4'	2.02	0.59
29:B1:2943:G:N7	29:B1:2944:U:C5	2.71	0.59
29:B1:3055:U:O2'	29:B1:3057:U:OP1	2.21	0.59
29:B1:3131:U:C6	29:B1:3131:U:OP2	2.56	0.59
29:B1:3221:C:C2'	29:B1:3222:U:H5'	2.32	0.59
29:B1:3281:U:C2	29:B1:3282:U:C4	2.91	0.59
29:B1:3299:A:O5'	29:B1:3299:A:H2'	2.03	0.59
29:B1:3311:C:H2'	29:B1:3312:U:O4'	2.03	0.59
31:B3:56:G:C6	31:B3:62:C:N4	2.70	0.59
46:BQ:9:THR:HA	46:BQ:14:SER:N	2.17	0.59
50:BU:39:VAL:O	50:BU:40:LYS:C	2.46	0.59
1:C1:22:A:C6	1:C1:604:A:C6	2.90	0.59
1:C1:156:A:H2'	1:C1:157:A:O4'	2.03	0.59
1:C1:215:A:N7	1:C1:216:U:C4	2.71	0.59
1:C1:390:G:N2	1:C1:391:A:C6	2.70	0.59
1:C1:600:U:H2'	1:C1:601:A:C8	2.38	0.59
1:C1:606:A:H4'	1:C1:607:G:C3'	2.32	0.59
1:C1:643:G:N1	1:C1:692:C:C4	2.71	0.59
1:C1:863:A:O2'	1:C1:865:A:H5"	2.03	0.59
1:C1:878:G:C6	1:C1:951:A:N1	2.71	0.59
1:C1:975:C:N4	1:C1:976:G:C6	2.71	0.59
1:C1:1124:A:N6	1:C1:1125:A:N1	2.51	0.59
1:C1:1124:A:C6	1:C1:1125:A:C6	2.90	0.59
1:C1:1309:C:C2'	1:C1:1310:U:O5'	2.50	0.59
1:C1:1560:U:OP2	1:C1:1560:U:C5	2.55	0.59
1:C1:1566:U:C2'	1:C1:1567:U:H5"	2.33	0.59
3:CB:106:ASP:C	3:CB:108:ASN:H	2.11	0.59
5:CD:140:THR:O	5:CD:171:ALA:HB1	2.03	0.59
29:D1:9:U:O2	29:D1:9:U:H3'	2.02	0.59
29:D1:107:A:C2	29:D1:108:A:N3	2.71	0.59
29:D1:597:G:H2'	29:D1:598:A:H8	1.68	0.59
29:D1:642:U:H4'	29:D1:1116:G:C6	2.36	0.59
29:D1:835:G:C2	29:D1:857:G:C2	2.91	0.59
29:D1:926:A:H2'	29:D1:927:C:C6	2.38	0.59
29:D1:993:G:C8	29:D1:2637:A:C2	2.90	0.59
29:D1:1085:A:H3'	29:D1:1086:C:H6	1.68	0.59
29:D1:1164:G:C4	29:D1:1165:A:C8	2.90	0.59
29:D1:1226:G:N3	29:D1:1227:C:C5	2.71	0.59
29:D1:1368:U:O2'	29:D1:1369:A:H5'	2.01	0.59
29:D1:1454:A:O4'	29:D1:1878:G:C2	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1640:G:C5'	29:D1:1738:C:OP1	2.50	0.59
29:D1:1683:A:N7	29:D1:1684:U:C4	2.71	0.59
29:D1:1841:A:C2	29:D1:1848:G:C8	2.90	0.59
29:D1:1916:U:H2'	29:D1:1917:C:H6	1.66	0.59
29:D1:2554:A:C2	33:DB:84:THR:O	2.55	0.59
29:D1:2689:A:C4	29:D1:2702:A:C2	2.91	0.59
29:D1:2919:A:C3'	29:D1:2920:U:C5'	2.81	0.59
29:D1:3018:C:C4	29:D1:3019:U:C5	2.90	0.59
29:D1:3197:G:OP2	29:D1:3198:U:H5	1.86	0.59
29:D1:3218:A:O3'	29:D1:3220:G:C8	2.56	0.59
29:D1:3324:C:C2	29:D1:3325:G:C8	2.90	0.59
30:D2:73:C:N3	30:D2:74:C:C4	2.70	0.59
31:D3:4:C:C2'	31:D3:5:U:H5'	2.33	0.59
31:D3:10:A:H2'	31:D3:11:C:C6	2.37	0.59
31:D3:104:A:OP2	31:D3:105:A:H2'	2.02	0.59
37:DF:31:ARG:O	37:DF:32:ALA:O	2.20	0.59
37:DF:40:LEU:HA	37:DF:85:ILE:HA	1.84	0.59
37:DF:43:LEU:H	37:DF:84:VAL:CA	2.14	0.59
44:DO:20:ARG:C	44:DO:22:LEU:N	2.57	0.59
45:DP:174:PHE:O	45:DP:175:THR:C	2.44	0.59
46:DQ:95:LEU:O	46:DQ:98:ALA:HB3	2.02	0.59
47:DR:66:ARG:C	47:DR:68:ALA:N	2.57	0.59
53:DX:36:SER:O	53:DX:40:ARG:N	2.24	0.59
54:DY:29:PRO:O	54:DY:30:GLY:C	2.45	0.59
1:A1:8:U:O2'	74:A1:1976:OHX:N2	2.35	0.59
1:A1:97:C:H1'	1:A1:426:G:C5'	2.26	0.59
1:A1:169:A:HO2'	1:A1:171:A:H8	1.49	0.59
1:A1:607:G:C4'	1:A1:608:U:OP2	2.50	0.59
1:A1:782:U:H1'	1:A1:783:G:OP2	2.03	0.59
1:A1:963:A:O2'	1:A1:964:U:P	2.61	0.59
1:A1:985:G:C5	1:A1:986:G:N7	2.70	0.59
1:A1:1056:U:H3'	1:A1:1057:U:C6	2.38	0.59
1:A1:1259:U:H2'	1:A1:1260:U:O5'	2.03	0.59
1:A1:1306:C:O2	1:A1:1306:C:O4'	2.18	0.59
1:A1:1575:G:N1	1:A1:1576:A:C4	2.71	0.59
1:A1:1623:C:O2	1:A1:1623:C:H2'	2.01	0.59
1:A1:1765:A:H2	1:A1:1768:G:H22	1.48	0.59
5:AD:59:VAL:C	5:AD:61:TYR:N	2.56	0.59
6:AE:151:ASP:O	6:AE:153:GLU:N	2.36	0.59
7:AF:110:HIS:CB	7:AF:138:ASN:HA	2.32	0.59
29:B1:8:C:O2	31:B3:152:G:C2	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:58:G:O2'	29:B1:61:A:H5'	2.02	0.59
29:B1:157:A:H2'	29:B1:158:G:N7	2.17	0.59
29:B1:246:U:P	29:B1:247:C:H5"	2.43	0.59
29:B1:374:A:C2	29:B1:375:A:C5	2.90	0.59
29:B1:424:G:N1	29:B1:635:G:N2	2.51	0.59
29:B1:438:A:O2'	29:B1:494:G:H1'	2.03	0.59
29:B1:514:G:C2'	29:B1:515:C:N1	2.64	0.59
29:B1:692:A:H2'	29:B1:693:A:H8	1.66	0.59
29:B1:692:A:C2	29:B1:693:A:H1'	2.38	0.59
29:B1:882:A:H5"	29:B1:1849:C:O2	2.03	0.59
29:B1:1153:A:C8	29:B1:1154:A:C4	2.91	0.59
29:B1:1157:G:C6	29:B1:1158:A:C4	2.90	0.59
29:B1:1357:G:H2'	29:B1:1358:C:H6	1.62	0.59
29:B1:1378:U:C2'	29:B1:1379:G:H8	2.14	0.59
29:B1:1444:G:H1	29:B1:2359:C:N4	2.01	0.59
29:B1:1480:G:H4'	29:B1:1481:A:OP2	2.01	0.59
29:B1:1662:G:H1	29:B1:1787:A:H61	1.49	0.59
29:B1:1673:G:C4	29:B1:1775:G:C2	2.90	0.59
29:B1:2137:U:N3	29:B1:2141:U:H5	2.01	0.59
29:B1:2143:A:N7	29:B1:2145:A:C6	2.71	0.59
29:B1:2343:C:H2'	29:B1:2344:U:H6	1.67	0.59
29:B1:2513:U:O4	29:B1:2592:G:H1'	2.03	0.59
29:B1:2555:G:C1'	29:B1:2556:C:OP2	2.51	0.59
29:B1:2655:U:C2	29:B1:2656:A:N1	2.71	0.59
29:B1:2666:C:H5"	29:B1:2667:A:OP2	2.03	0.59
29:B1:2948:C:C6	29:B1:2948:C:C5'	2.85	0.59
29:B1:3073:A:C2'	29:B1:3074:G:O5'	2.51	0.59
29:B1:3133:C:H2'	29:B1:3134:A:O5'	2.03	0.59
29:B1:3187:A:N1	29:B1:3188:G:C4	2.71	0.59
29:B1:3315:G:O4'	29:B1:3320:A:O5'	2.21	0.59
30:B2:48:U:H2'	30:B2:49:G:C5	2.38	0.59
30:B2:97:A:OP2	30:B2:97:A:C8	2.56	0.59
31:B3:18:U:N3	31:B3:19:C:C5	2.71	0.59
59:Bd:28:HIS:O	59:Bd:31:LYS:N	2.36	0.59
1:C1:53:G:C6	1:C1:54:C:C4	2.90	0.59
1:C1:210:A:C5	1:C1:211:U:C5	2.90	0.59
1:C1:298:C:C5	1:C1:299:A:C8	2.91	0.59
1:C1:402:C:N3	1:C1:403:G:O4'	2.35	0.59
1:C1:576:G:H5"	1:C1:577:G:OP2	2.02	0.59
1:C1:604:A:H5"	1:C1:605:A:OP2	2.02	0.59
1:C1:607:G:N7	1:C1:613:G:C4	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:729:G:O2'	1:C1:730:G:P	2.60	0.59
1:C1:977:A:C4	1:C1:1025:A:C2	2.91	0.59
1:C1:1042:G:H2'	1:C1:1043:A:C8	2.37	0.59
1:C1:1092:A:C2	1:C1:1094:G:N7	2.70	0.59
1:C1:1123:C:H5	1:C1:1124:A:C5	2.20	0.59
1:C1:1138:A:C4	1:C1:1139:A:N7	2.71	0.59
1:C1:1207:C:C4	1:C1:1208:A:N6	2.71	0.59
1:C1:1336:A:C6	1:C1:1416:G:C6	2.91	0.59
1:C1:1383:G:C2'	1:C1:1384:A:O5'	2.50	0.59
1:C1:1649:G:C4	1:C1:1650:U:C5	2.91	0.59
1:C1:1720:G:C8	1:C1:1721:A:C8	2.91	0.59
17:CP:43:PHE:C	17:CP:45:GLY:H	2.10	0.59
21:CT:300:THR:HA	21:CT:314:GLN:CB	2.32	0.59
29:D1:359:U:O4	29:D1:360:G:N1	2.35	0.59
29:D1:386:A:H2'	29:D1:387:A:O4'	2.03	0.59
29:D1:438:A:O2'	29:D1:494:G:H1'	2.02	0.59
29:D1:560:G:N2	29:D1:561:C:C2	2.71	0.59
29:D1:606:C:C4	29:D1:607:A:N6	2.69	0.59
29:D1:784:A:H3'	29:D1:785:G:C5'	2.24	0.59
29:D1:1150:A:C2	29:D1:1151:U:H1'	2.38	0.59
29:D1:1223:A:H2	29:D1:1285:G:C8	2.21	0.59
29:D1:1342:C:H2'	29:D1:1342:C:O2	2.03	0.59
29:D1:1453:A:C1'	29:D1:1850:A:H2	2.13	0.59
29:D1:1548:C:H3'	29:D1:1549:U:O4'	2.02	0.59
29:D1:1658:G:C6	29:D1:1659:U:C4	2.89	0.59
29:D1:2136:C:H3'	29:D1:2142:A:N6	2.17	0.59
29:D1:2259:A:C5	29:D1:2260:U:C2	2.90	0.59
29:D1:2289:U:N3	29:D1:2290:C:C5	2.71	0.59
29:D1:2306:C:C6	29:D1:2306:C:C3'	2.84	0.59
29:D1:2592:G:C6	74:D1:3463:OHX:N1	2.70	0.59
29:D1:2609:A:C2	29:D1:2610:G:C5	2.91	0.59
29:D1:2621:G:H2'	29:D1:2622:C:H6	1.67	0.59
29:D1:2904:U:O2	29:D1:2905:U:C6	2.56	0.59
29:D1:2909:U:H2'	29:D1:2910:A:H5'	1.85	0.59
29:D1:3102:G:H2'	29:D1:3103:A:O5'	2.03	0.59
29:D1:3187:A:N1	29:D1:3188:G:C4	2.70	0.59
29:D1:3191:G:C6	29:D1:3192:U:C2	2.91	0.59
29:D1:3315:G:HO2'	29:D1:3316:A:H8	1.42	0.59
29:D1:3316:A:C1'	29:D1:3317:U:OP2	2.51	0.59
30:D2:14:U:OP2	30:D2:14:U:N1	2.36	0.59
35:DD:177:ASP:O	35:DD:179:LEU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DE:125:VAL:O	36:DE:246:ALA:HB2	2.02	0.59
40:DI:63:LYS:O	40:DI:64:HIS:C	2.43	0.59
48:DS:37:SER:C	48:DS:39:ASN:N	2.61	0.59
49:DT:79:MET:CB	49:DT:84:TYR:O	2.51	0.59
62:Dg:25:GLN:C	62:Dg:27:LYS:H	2.10	0.59
63:Dh:44:UNK:O	63:Dh:45:UNK:C	2.49	0.59
1:A1:22:A:C6	1:A1:604:A:C6	2.91	0.59
1:A1:221:A:H3'	1:A1:833:U:H6	1.66	0.59
1:A1:302:U:C4	1:A1:303:U:O2	2.56	0.59
1:A1:333:A:C2	1:A1:334:G:C4	2.91	0.59
1:A1:365:G:C5	1:A1:377:G:N1	2.71	0.59
1:A1:388:G:N3	1:A1:389:G:C8	2.71	0.59
1:A1:567:A:OP2	17:AP:67:ALA:HB1	2.03	0.59
1:A1:653:C:C5	1:A1:654:C:H5	2.21	0.59
1:A1:704:C:O2	1:A1:704:C:H2'	2.03	0.59
1:A1:977:A:H2'	1:A1:978:A:H5'	1.83	0.59
1:A1:1297:G:N2	1:A1:1301:U:C2	2.71	0.59
1:A1:1336:A:C6	1:A1:1416:G:O6	2.56	0.59
1:A1:1583:A:N3	1:A1:1585:U:N3	2.51	0.59
3:AB:122:ALA:O	3:AB:125:ILE:N	2.35	0.59
3:AB:245:ASP:C	3:AB:247:ALA:N	2.55	0.59
6:AE:77:ILE:C	6:AE:79:ARG:H	2.11	0.59
7:AF:95:PRO:O	7:AF:97:TYR:N	2.36	0.59
13:AL:112:ASP:C	13:AL:114:GLU:N	2.58	0.59
29:B1:26:A:C2'	29:B1:27:C:H6	2.15	0.59
29:B1:213:A:C6	29:B1:214:G:C4	2.90	0.59
29:B1:384:A:C8	29:B1:385:A:N7	2.70	0.59
29:B1:393:U:O2	29:B1:393:U:H2'	2.03	0.59
29:B1:431:U:C6	29:B1:431:U:C3'	2.86	0.59
29:B1:576:C:O2'	29:B1:577:C:H5"	2.03	0.59
29:B1:758:C:H1'	29:B1:759:U:OP2	2.02	0.59
29:B1:768:C:H2'	29:B1:769:G:C5	2.37	0.59
29:B1:769:G:C4'	29:B1:770:G:OP1	2.51	0.59
29:B1:776:U:P	29:B1:777:U:OP2	2.60	0.59
29:B1:865:U:C4	29:B1:866:A:C5	2.91	0.59
29:B1:1405:U:C6	29:B1:1406:A:N7	2.71	0.59
29:B1:2253:G:C8	29:B1:2254:U:C4	2.91	0.59
29:B1:2260:U:C2'	29:B1:2261:G:N7	2.65	0.59
29:B1:2407:C:H2'	29:B1:2408:U:C6	2.37	0.59
29:B1:2502:A:N3	29:B1:2502:A:H2'	2.17	0.59
29:B1:2618:G:C4'	29:B1:2619:G:OP2	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2787:G:C4	29:B1:2788:C:C5	2.90	0.59
29:B1:2948:C:O2'	29:B1:2949:U:C5'	2.48	0.59
29:B1:2970:C:C3'	29:B1:2971:A:H5"	2.31	0.59
29:B1:3114:A:N7	29:B1:3115:C:C5	2.71	0.59
29:B1:3157:U:H6	29:B1:3157:U:P	2.26	0.59
29:B1:3191:G:C6	29:B1:3202:G:N1	2.71	0.59
29:B1:3212:C:C5	29:B1:3213:A:N1	2.71	0.59
29:B1:3294:A:H2'	29:B1:3295:A:C5'	2.33	0.59
29:B1:3377:G:C1'	29:B1:3378:C:OP1	2.51	0.59
29:B1:3384:U:C4	29:B1:3385:U:C4	2.91	0.59
30:B2:25:G:N2	30:B2:26:C:N3	2.51	0.59
30:B2:74:C:C5	30:B2:75:G:C8	2.90	0.59
31:B3:48:A:C5	31:B3:51:G:C8	2.91	0.59
33:BB:221:LYS:O	33:BB:222:ALA:HB2	2.02	0.59
35:BD:256:THR:O	35:BD:257:LYS:CB	2.50	0.59
36:BE:94:ASN:C	36:BE:96:ALA:H	2.11	0.59
36:BE:197:SER:O	36:BE:198:TYR:C	2.45	0.59
43:BN:97:SER:C	43:BN:99:TRP:H	2.10	0.59
45:BP:114:LYS:O	45:BP:115:LYS:CB	2.49	0.59
46:BQ:44:ALA:O	46:BQ:45:GLN:C	2.43	0.59
47:BR:21:SER:O	47:BR:22:ASP:CB	2.50	0.59
47:BR:37:ALA:C	47:BR:39:ARG:N	2.59	0.59
67:Bm:13:UNK:O	67:Bm:14:UNK:C	2.49	0.59
1:C1:53:G:C6	1:C1:54:C:C5	2.90	0.59
1:C1:108:A:H3'	1:C1:109:G:H8	1.68	0.59
1:C1:330:G:H5"	1:C1:331:A:OP2	2.03	0.59
1:C1:557:G:OP2	1:C1:589:C:H1'	2.03	0.59
1:C1:647:G:N1	1:C1:648:G:O6	2.36	0.59
1:C1:847:A:C2'	1:C1:848:C:C5'	2.81	0.59
1:C1:897:C:N3	1:C1:914:G:C2	2.70	0.59
1:C1:977:A:H2'	1:C1:978:A:H5'	1.82	0.59
1:C1:978:A:N6	1:C1:1024:U:C4	2.71	0.59
1:C1:1109:G:N1	1:C1:1110:G:C5	2.71	0.59
1:C1:1168:U:H2'	1:C1:1169:G:H5'	1.85	0.59
1:C1:1185:U:C5	1:C1:1458:G:C8	2.91	0.59
1:C1:1259:U:H2'	1:C1:1260:U:O5'	2.03	0.59
1:C1:1376:C:O5'	1:C1:1376:C:H6	1.85	0.59
1:C1:1388:A:N6	1:C1:1411:A:N7	2.50	0.59
1:C1:1673:G:O2'	1:C1:1674:C:H5'	2.02	0.59
1:C1:1687:U:C4	1:C1:1688:U:H1'	2.38	0.59
2:CA:106:SER:C	2:CA:108:THR:N	2.60	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:203:LYS:C	3:CB:205:ARG:N	2.59	0.59
13:CL:68:ARG:HA	13:CL:71:GLN:CB	2.33	0.59
14:CM:28:LEU:O	14:CM:30:VAL:N	2.36	0.59
29:D1:40:A:N6	29:D1:937:G:C2	2.71	0.59
29:D1:82:C:H2'	29:D1:83:U:O5'	2.03	0.59
29:D1:142:C:H2'	29:D1:143:G:C8	2.37	0.59
29:D1:284:A:N1	29:D1:306:A:C8	2.71	0.59
29:D1:337:G:H1	31:D3:26:U:H3	1.51	0.59
29:D1:404:G:H2'	29:D1:405:U:H5'	1.84	0.59
29:D1:569:A:C2	29:D1:570:A:C1'	2.86	0.59
29:D1:692:A:C4	29:D1:693:A:C8	2.91	0.59
29:D1:747:A:OP1	29:D1:747:A:H8	1.85	0.59
29:D1:888:A:C6	29:D1:889:U:C4	2.90	0.59
29:D1:962:A:C3'	29:D1:963:G:H5"	2.33	0.59
29:D1:1209:G:C5	29:D1:1210:U:C4	2.90	0.59
29:D1:1535:A:H5"	29:D1:1536:G:OP2	2.02	0.59
29:D1:1540:U:H2'	29:D1:1541:G:H5'	1.85	0.59
29:D1:1543:G:N7	74:D1:3556:OHX:N3	2.51	0.59
29:D1:1697:A:N7	29:D1:1698:C:C5	2.70	0.59
29:D1:1715:A:N6	29:D1:1716:U:C4	2.71	0.59
29:D1:1725:C:H2'	29:D1:1726:C:C5	2.38	0.59
29:D1:1742:U:H2'	29:D1:1743:G:H8	1.68	0.59
29:D1:1780:G:HO2'	29:D1:1781:C:H6	1.49	0.59
29:D1:2257:C:H3'	29:D1:2258:U:C6	2.35	0.59
29:D1:2262:A:H5"	29:D1:2263:C:H5'	1.85	0.59
29:D1:2403:G:C4	29:D1:2872:A:C6	2.91	0.59
29:D1:2591:A:C2	29:D1:2592:G:H1'	2.38	0.59
29:D1:2666:C:H5"	29:D1:2667:A:OP2	2.02	0.59
29:D1:2816:G:H4'	29:D1:2817:A:H5"	1.85	0.59
29:D1:2896:A:O2'	29:D1:2897:A:O5'	2.20	0.59
29:D1:3072:C:C5	29:D1:3073:A:C4	2.91	0.59
29:D1:3142:A:N3	74:D1:3431:OHX:N1	2.51	0.59
29:D1:3269:U:O2'	29:D1:3270:U:H5'	2.03	0.59
30:D2:43:U:H2'	30:D2:43:U:O2	2.03	0.59
30:D2:69:C:H5'	30:D2:70:U:OP2	2.03	0.59
30:D2:80:G:H2'	30:D2:81:U:H6	1.68	0.59
30:D2:82:G:C5	30:D2:99:G:C2	2.91	0.59
33:DB:182:ALA:C	33:DB:184:ARG:H	1.96	0.59
35:DD:6:VAL:CB	35:DD:20:LEU:H	2.16	0.59
37:DF:124:GLU:C	37:DF:126:GLN:N	2.61	0.59
41:DJ:57:LEU:HA	41:DJ:129:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DU:27:ASP:CB	50:DU:101:VAL:HA	2.32	0.59
54:DY:42:ARG:O	54:DY:43:ILE:C	2.45	0.59
57:Db:6:HIS:O	57:Db:7:PRO:O	2.20	0.59
1:A1:147:A:H3'	1:A1:148:A:C8	2.37	0.59
1:A1:166:C:C2'	1:A1:167:U:H5"	2.33	0.59
1:A1:168:A:C6	1:A1:169:A:N6	2.71	0.59
1:A1:594:A:H4'	1:A1:595:G:OP1	2.02	0.59
1:A1:739:G:C2'	1:A1:740:A:H8	2.14	0.59
1:A1:866:G:C2	1:A1:867:G:C8	2.91	0.59
1:A1:901:G:C6	1:A1:902:G:C2	2.90	0.59
1:A1:1007:C:C5'	1:A1:1008:G:OP2	2.49	0.59
1:A1:1056:U:H1'	1:A1:1064:G:H21	1.67	0.59
1:A1:1418:G:C2'	1:A1:1419:G:H5'	2.32	0.59
1:A1:1489:U:H5	1:A1:1513:G:C2	2.21	0.59
1:A1:1559:A:H1'	13:AL:135:GLY:HA2	1.84	0.59
1:A1:1559:A:O2'	1:A1:1560:U:O4'	2.21	0.59
1:A1:1567:U:H5'	1:A1:1567:U:C6	2.38	0.59
3:AB:133:LYS:C	3:AB:135:SER:N	2.60	0.59
18:AQ:57:TYR:CB	18:AQ:58:ARG:CA	2.75	0.59
29:B1:11:A:H4'	29:B1:1558:A:C2	2.38	0.59
29:B1:189:G:C2	29:B1:191:U:C4	2.90	0.59
29:B1:198:A:O4'	29:B1:218:G:C2	2.56	0.59
29:B1:198:A:N1	29:B1:219:A:C5	2.70	0.59
29:B1:210:U:C4	35:BD:161:LYS:HA	2.38	0.59
29:B1:264:G:N7	29:B1:265:A:N6	2.51	0.59
29:B1:560:G:C2	29:B1:561:C:N3	2.70	0.59
29:B1:952:A:N6	29:B1:1142:G:H21	1.99	0.59
29:B1:1220:U:OP2	29:B1:1223:A:H4'	2.01	0.59
29:B1:1257:C:H3'	29:B1:1258:U:O4'	2.02	0.59
29:B1:1495:U:O3'	29:B1:1514:G:H5'	2.02	0.59
29:B1:1654:A:HO2'	29:B1:1655:G:P	2.26	0.59
29:B1:1666:G:H2'	29:B1:1667:A:H8	1.67	0.59
29:B1:1704:A:N6	29:B1:1739:U:C4	2.70	0.59
29:B1:1895:A:C5	29:B1:2335:G:N7	2.71	0.59
29:B1:2107:A:C4	29:B1:2108:C:C5	2.91	0.59
29:B1:2112:U:O2	29:B1:2113:A:N1	2.36	0.59
29:B1:2277:C:O2'	29:B1:2278:C:O5'	2.13	0.59
29:B1:2376:G:N1	29:B1:2377:G:C6	2.71	0.59
29:B1:2643:A:N6	29:B1:2645:G:H1'	2.17	0.59
29:B1:2690:G:HO2'	29:B1:2691:A:P	2.25	0.59
29:B1:2827:U:O2	29:B1:2827:U:H2'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2836:C:C2'	29:B1:2836:C:O2	2.51	0.59
29:B1:2869:U:H2'	29:B1:2869:U:O2	2.00	0.59
29:B1:3295:A:OP1	34:BC:132:LYS:CB	2.51	0.59
29:B1:3299:A:C4	29:B1:3300:U:C5	2.90	0.59
29:B1:3377:G:C1'	29:B1:3378:C:H5'	2.33	0.59
30:B2:12:U:C3'	30:B2:13:A:N1	2.65	0.59
31:B3:48:A:C2	31:B3:51:G:O6	2.56	0.59
31:B3:141:C:C2	31:B3:142:C:H5	2.21	0.59
34:BC:41:VAL:CB	34:BC:186:GLY:H	2.15	0.59
36:BE:30:TYR:C	36:BE:32:GLN:N	2.57	0.59
38:BG:228:SER:O	38:BG:230:GLY:N	2.36	0.59
40:BI:63:LYS:O	40:BI:65:VAL:N	2.36	0.59
40:BI:116:ASN:C	40:BI:120:ASP:H	2.11	0.59
40:BI:134:ILE:HA	40:BI:146:LEU:CB	2.33	0.59
42:BK:134:PRO:C	42:BK:151:SER:O	2.46	0.59
47:BR:144:ARG:O	47:BR:145:ASN:O	2.20	0.59
56:Ba:43:HIS:O	56:Ba:44:MET:C	2.45	0.59
57:Bb:42:VAL:C	57:Bb:44:ARG:N	2.60	0.59
1:C1:190:C:N4	1:C1:192:U:H3	2.01	0.59
1:C1:576:G:O6	17:CP:65:ASN:HA	2.02	0.59
1:C1:768:C:C2'	1:C1:769:A:H5'	2.33	0.59
1:C1:789:A:C4	1:C1:790:U:C5	2.91	0.59
1:C1:971:A:N6	29:D1:846:A:N6	2.51	0.59
1:C1:972:G:C2	29:D1:846:A:N6	2.67	0.59
1:C1:1138:A:C2	1:C1:1139:A:N7	2.71	0.59
1:C1:1202:A:N6	1:C1:1456:C:H2'	2.18	0.59
1:C1:1287:A:N3	1:C1:1288:G:H1'	2.17	0.59
1:C1:1449:U:C2'	1:C1:1450:U:O5'	2.51	0.59
1:C1:1541:G:C6	1:C1:1542:G:O6	2.56	0.59
3:CB:239:PRO:C	3:CB:241:ASP:N	2.58	0.59
6:CE:96:VAL:O	6:CE:99:LEU:N	2.36	0.59
19:CR:7:VAL:HA	19:CR:28:VAL:C	2.28	0.59
24:Cc:54:UNK:HA	24:Cc:62:UNK:N	2.18	0.59
29:D1:130:A:C2	29:D1:139:G:C5	2.90	0.59
29:D1:543:C:C3'	29:D1:544:C:H5'	2.33	0.59
29:D1:628:A:H5"	29:D1:1399:A:C5	2.38	0.59
29:D1:745:C:N4	29:D1:746:A:H61	2.00	0.59
29:D1:891:G:C2'	29:D1:892:U:O5'	2.51	0.59
29:D1:992:A:C3'	29:D1:993:G:H5"	2.33	0.59
29:D1:1128:U:O2'	41:DJ:7:ARG:CB	2.51	0.59
29:D1:1196:C:O2	30:D2:86:U:N1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1269:U:H2'	29:D1:1270:A:H5"	1.85	0.59
29:D1:1270:A:H5'	29:D1:1271:A:OP2	2.03	0.59
29:D1:1452:A:H5'	29:D1:1453:A:OP1	2.03	0.59
29:D1:1498:A:C5	29:D1:1499:C:C5	2.91	0.59
29:D1:1601:U:H5	29:D1:1604:G:O6	1.86	0.59
29:D1:1658:G:C6	29:D1:1796:G:O6	2.56	0.59
29:D1:2157:G:H4'	29:D1:2158:A:H5'	1.84	0.59
29:D1:2278:C:C4	29:D1:2307:G:C2	2.91	0.59
29:D1:2378:C:O2	29:D1:2379:U:C5	2.56	0.59
29:D1:2701:U:H1'	29:D1:2705:A:C4	2.38	0.59
29:D1:2702:A:H8	29:D1:2704:A:N6	1.99	0.59
29:D1:3027:A:C2'	29:D1:3028:G:H8	2.07	0.59
29:D1:3264:G:H3'	29:D1:3265:C:H5"	1.84	0.59
29:D1:3273:A:O2'	29:D1:3274:A:H4'	2.02	0.59
29:D1:3368:U:C5'	29:D1:3368:U:H6	2.16	0.59
74:D1:3408:OHX:N5	74:D1:3582:OHX:N5	2.50	0.59
30:D2:70:U:H2'	30:D2:71:G:C8	2.36	0.59
31:D3:24:G:C2'	31:D3:25:G:O5'	2.50	0.59
31:D3:45:C:H2'	31:D3:46:G:O4'	2.03	0.59
31:D3:106:C:C2	31:D3:138:A:N7	2.71	0.59
34:DC:41:VAL:O	34:DC:42:ALA:O	2.21	0.59
34:DC:137:TYR:O	34:DC:138:ALA:HB3	2.03	0.59
35:DD:162:THR:O	35:DD:165:ALA:HB3	2.03	0.59
39:DH:168:ALA:C	39:DH:170:CYS:H	2.10	0.59
40:DI:85:GLY:O	40:DI:187:ILE:N	2.36	0.59
41:DJ:212:GLU:O	41:DJ:213:PHE:C	2.46	0.59
42:DK:133:ARG:CB	42:DK:155:THR:H	2.15	0.59
47:DR:36:LEU:O	47:DR:37:ALA:O	2.20	0.59
48:DS:37:SER:C	48:DS:39:ASN:H	2.10	0.59
54:DY:130:VAL:C	54:DY:132:LYS:H	2.09	0.59
1:A1:61:A:OP1	1:A1:62:A:C8	2.56	0.58
1:A1:67:A:H4'	1:A1:68:A:OP1	2.03	0.58
1:A1:933:A:H62	1:A1:935:U:H1'	1.66	0.58
1:A1:1142:A:C2	1:A1:1143:A:C4	2.91	0.58
1:A1:1275:A:N6	1:A1:1431:C:N3	2.51	0.58
1:A1:1508:U:O4	74:A1:1909:OHX:N6	2.36	0.58
1:A1:1584:G:C5	11:AJ:123:ARG:O	2.55	0.58
1:A1:1689:A:OP1	1:A1:1689:A:H4'	2.03	0.58
1:A1:1754:A:O2'	1:A1:1755:A:O5'	2.20	0.58
2:AA:25:GLY:O	2:AA:26:ALA:HB3	2.03	0.58
8:AG:93:LYS:O	8:AG:96:VAL:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:33:PHE:C	10:AI:35:LYS:N	2.61	0.58
16:AO:53:ILE:O	16:AO:60:LYS:N	2.36	0.58
29:B1:54:C:O2'	29:B1:55:G:H5'	2.03	0.58
29:B1:88:A:N7	29:B1:99:A:N6	2.51	0.58
29:B1:265:A:C8	29:B1:265:A:OP1	2.56	0.58
29:B1:380:U:H2'	29:B1:381:U:C5	2.37	0.58
29:B1:398:A:H2	29:B1:1415:U:C5'	2.15	0.58
29:B1:414:U:H2'	29:B1:415:G:C8	2.34	0.58
29:B1:516:A:H4'	29:B1:517:G:OP1	2.02	0.58
29:B1:639:G:O2'	29:B1:640:U:H5'	2.02	0.58
29:B1:835:G:C2	29:B1:857:G:C2	2.91	0.58
29:B1:844:G:C2	29:B1:850:U:C2	2.91	0.58
29:B1:926:A:C2	29:B1:927:C:C2	2.91	0.58
29:B1:1246:G:H3'	29:B1:1246:G:OP1	2.03	0.58
29:B1:1332:A:H2'	29:B1:1333:C:C6	2.38	0.58
29:B1:1540:U:H2'	29:B1:1541:G:C5'	2.33	0.58
29:B1:1566:A:H62	29:B1:1568:U:H3	1.50	0.58
29:B1:1719:G:H4'	29:B1:1732:U:H4'	1.85	0.58
29:B1:1747:G:C2'	29:B1:1748:G:H5'	2.32	0.58
29:B1:2095:G:H2'	29:B1:2096:A:H5'	1.84	0.58
29:B1:2202:C:H2'	29:B1:2202:C:O2	2.02	0.58
29:B1:2280:A:H4'	29:B1:2281:A:OP1	2.02	0.58
29:B1:2290:C:O2'	29:B1:2291:A:O4'	2.20	0.58
29:B1:2308:C:C4	29:B1:2309:A:C5	2.91	0.58
29:B1:2403:G:C4	29:B1:2872:A:C6	2.90	0.58
29:B1:2703:A:N6	36:BE:26:GLY:HA2	2.16	0.58
29:B1:3274:A:C1'	29:B1:3275:U:OP2	2.51	0.58
29:B1:3280:U:C2	29:B1:3281:U:H5	2.20	0.58
29:B1:3299:A:H1'	29:B1:3300:U:OP2	2.03	0.58
29:B1:3323:A:O2'	29:B1:3324:C:H5'	2.03	0.58
30:B2:26:C:O2'	30:B2:27:A:O4'	2.21	0.58
31:B3:56:G:O2'	31:B3:57:C:H5'	2.03	0.58
31:B3:71:A:H1'	31:B3:72:A:H5'	1.85	0.58
31:B3:96:A:H5'	31:B3:97:A:OP2	2.03	0.58
35:BD:8:VAL:O	35:BD:18:ASN:N	2.30	0.58
71:Br:-2:UNK:H	71:Br:1:UNK:CB	2.15	0.58
1:C1:62:A:H2	1:C1:63:G:N7	1.99	0.58
1:C1:127:G:C5	1:C1:179:A:C5	2.89	0.58
1:C1:199:G:C6	1:C1:200:A:N6	2.71	0.58
1:C1:289:U:H2'	1:C1:290:G:H5"	1.85	0.58
1:C1:690:G:H2'	1:C1:691:C:C5'	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1022:C:C4'	1:C1:1124:A:H61	2.12	0.58
1:C1:1061:A:H2'	1:C1:1062:A:O4'	2.03	0.58
1:C1:1239:U:O2'	1:C1:1240:U:H5'	2.03	0.58
1:C1:1375:A:H2'	1:C1:1376:C:C2	2.38	0.58
1:C1:1503:A:C2'	1:C1:1504:G:H5'	2.33	0.58
1:C1:1552:U:N3	1:C1:1553:G:C4	2.66	0.58
1:C1:1640:C:H1'	1:C1:1763:A:N1	2.18	0.58
1:C1:1665:U:O4	74:C1:1993:OHX:N2	2.36	0.58
1:C1:1683:C:H1'	1:C1:1720:G:O6	2.03	0.58
1:C1:1720:G:O2'	1:C1:1721:A:H5'	2.02	0.58
1:C1:1760:G:C4	1:C1:1761:U:C5	2.86	0.58
2:CA:178:ALA:HA	2:CA:182:LEU:H	1.68	0.58
4:CC:104:SER:O	4:CC:107:PHE:N	2.32	0.58
29:D1:11:A:H4'	29:D1:1558:A:C2	2.38	0.58
29:D1:40:A:C6	29:D1:937:G:C2	2.91	0.58
29:D1:51:A:C2'	29:D1:52:A:H5'	2.33	0.58
29:D1:73:C:O5'	29:D1:74:G:OP2	2.21	0.58
29:D1:283:G:N2	54:DY:60:TYR:O	2.36	0.58
29:D1:416:A:H61	31:D3:7:U:H3	1.51	0.58
29:D1:579:G:H2'	29:D1:580:C:C6	2.37	0.58
29:D1:648:C:C5	29:D1:2374:C:O3'	2.55	0.58
29:D1:664:U:H2'	29:D1:665:A:C8	2.38	0.58
29:D1:719:U:O2'	29:D1:720:A:H8	1.81	0.58
29:D1:768:C:H2'	29:D1:769:G:C5	2.38	0.58
29:D1:888:A:N1	29:D1:889:U:C2	2.71	0.58
29:D1:901:G:C4	29:D1:902:G:C8	2.91	0.58
29:D1:934:G:H5"	29:D1:935:U:OP2	2.03	0.58
29:D1:969:C:H2'	29:D1:969:C:O2	2.02	0.58
29:D1:1097:G:O3'	29:D1:1098:A:C4'	2.51	0.58
29:D1:1229:G:H2'	29:D1:1230:G:O4'	2.03	0.58
29:D1:1277:C:O2'	29:D1:1278:A:P	2.61	0.58
29:D1:1292:C:H2'	29:D1:1292:C:O2	2.02	0.58
29:D1:1566:A:H62	29:D1:1568:U:H3	1.51	0.58
29:D1:1607:U:O2'	29:D1:1608:C:P	2.60	0.58
29:D1:1898:G:OP2	74:D1:3470:OHX:N6	2.36	0.58
29:D1:2253:G:C8	29:D1:2254:U:C5	2.91	0.58
29:D1:2553:U:O2	29:D1:2554:A:H2'	2.02	0.58
29:D1:2592:G:H4'	29:D1:2594:C:N3	2.18	0.58
29:D1:2980:U:N3	29:D1:2981:U:C5	2.71	0.58
29:D1:3005:A:O2'	29:D1:3140:G:N2	2.35	0.58
29:D1:3042:U:C5	29:D1:3043:C:C5	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3097:C:O2'	29:D1:3098:G:OP1	2.21	0.58
29:D1:3105:U:C5	29:D1:3106:A:C5	2.91	0.58
29:D1:3207:U:C3'	29:D1:3208:G:H5'	2.33	0.58
30:D2:60:G:C2	30:D2:61:G:C5	2.91	0.58
31:D3:12:A:H2'	31:D3:13:A:H5'	1.84	0.58
31:D3:95:G:OP2	31:D3:95:G:N2	2.36	0.58
31:D3:104:A:H5'	31:D3:105:A:C5'	2.33	0.58
31:D3:117:C:H2'	31:D3:118:C:H6	1.68	0.58
35:DD:39:PHE:O	35:DD:41:SER:N	2.36	0.58
36:DE:241:THR:C	36:DE:243:ALA:N	2.58	0.58
38:DG:187:GLU:O	38:DG:188:ILE:C	2.45	0.58
41:DJ:174:THR:C	41:DJ:176:LEU:CB	2.76	0.58
46:DQ:74:LYS:O	46:DQ:75:GLU:CB	2.50	0.58
49:DT:34:TYR:O	49:DT:35:LYS:CB	2.51	0.58
57:Db:112:ALA:O	57:Db:113:LYS:C	2.46	0.58
60:De:7:PHE:O	60:De:8:ARG:C	2.45	0.58
1:A1:20:G:C2'	1:A1:21:U:H5'	2.32	0.58
1:A1:105:A:C2	74:A1:1910:OHX:N3	2.71	0.58
1:A1:106:U:H5"	1:A1:107:C:OP2	2.03	0.58
1:A1:479:C:C3'	1:A1:480:G:C8	2.86	0.58
1:A1:570:A:H61	17:AP:116:ASP:CB	2.16	0.58
1:A1:846:G:O2'	1:A1:847:A:O5'	2.20	0.58
1:A1:920:U:OP2	1:A1:920:U:H6	1.87	0.58
1:A1:1271:G:H2'	1:A1:1272:U:H6	1.66	0.58
1:A1:1408:G:H1'	1:A1:1409:G:N2	2.18	0.58
1:A1:1475:A:C4	1:A1:1476:C:C6	2.91	0.58
1:A1:1515:A:C2'	1:A1:1516:A:H5"	2.32	0.58
29:B1:47:C:N4	29:B1:48:A:C6	2.71	0.58
29:B1:89:A:C2	29:B1:90:C:C6	2.90	0.58
29:B1:311:C:N4	29:B1:312:C:N4	2.51	0.58
29:B1:334:A:N3	29:B1:335:G:C8	2.71	0.58
29:B1:559:A:H2'	29:B1:560:G:H5"	1.85	0.58
29:B1:1013:G:H2'	29:B1:1015:U:OP2	2.02	0.58
29:B1:1021:G:H2'	29:B1:1022:U:C6	2.38	0.58
29:B1:1371:G:H5"	29:B1:1371:G:H8	1.68	0.58
29:B1:1666:G:O2'	29:B1:1667:A:H5'	2.03	0.58
29:B1:1780:G:O2'	29:B1:1781:C:P	2.62	0.58
29:B1:1898:G:N7	29:B1:1899:G:N7	2.51	0.58
29:B1:1909:A:N1	29:B1:1910:A:C2	2.71	0.58
29:B1:2515:A:H3'	29:B1:2516:U:H5	1.69	0.58
29:B1:2571:U:H2'	29:B1:2572:C:H5'	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2762:A:H2'	29:B1:2763:U:H6	1.68	0.58
29:B1:2915:U:O2	29:B1:2915:U:C2'	2.51	0.58
29:B1:3077:A:N6	29:B1:3080:G:C5	2.71	0.58
29:B1:3141:A:C2	29:B1:3144:G:P	2.97	0.58
29:B1:3179:U:OP2	29:B1:3179:U:H2'	2.03	0.58
29:B1:3279:A:H2'	29:B1:3280:U:C6	2.38	0.58
29:B1:3296:A:C2	29:B1:3297:U:C1'	2.87	0.58
29:B1:3320:A:C5	29:B1:3321:C:N4	2.71	0.58
29:B1:3394:U:H2'	29:B1:3395:G:C8	2.37	0.58
30:B2:121:U:H3'	36:BE:263:GLU:O	2.02	0.58
34:BC:116:ARG:O	34:BC:117:ARG:CB	2.51	0.58
34:BC:247:ARG:O	34:BC:248:LYS:CB	2.51	0.58
35:BD:123:ALA:O	35:BD:124:SER:C	2.45	0.58
36:BE:53:VAL:CB	36:BE:62:CYS:HA	2.34	0.58
36:BE:116:ASP:C	36:BE:118:THR:N	2.60	0.58
36:BE:170:GLY:O	36:BE:171:LEU:O	2.22	0.58
37:BF:56:LYS:C	37:BF:58:LEU:N	2.60	0.58
41:BJ:91:VAL:O	41:BJ:92:HIS:CB	2.51	0.58
42:BK:65:ILE:O	42:BK:66:ALA:CB	2.51	0.58
48:BS:97:ARG:O	48:BS:98:ARG:C	2.44	0.58
58:Bc:63:ARG:C	58:Bc:65:ALA:N	2.59	0.58
71:Br:-2:UNK:O	71:Br:-1:UNK:C	2.50	0.58
1:C1:140:A:H4'	1:C1:140:A:OP2	2.03	0.58
1:C1:322:G:O4'	1:C1:323:A:H8	1.85	0.58
1:C1:544:A:O2'	1:C1:545:A:O5'	2.21	0.58
1:C1:575:C:H5"	1:C1:576:G:OP2	2.02	0.58
1:C1:618:U:C2'	1:C1:619:A:C5'	2.81	0.58
1:C1:757:A:C4	1:C1:758:U:C5	2.92	0.58
1:C1:760:A:C2	1:C1:791:A:C4	2.91	0.58
1:C1:948:G:H2'	1:C1:949:C:C6	2.38	0.58
1:C1:1056:U:H3'	1:C1:1057:U:C6	2.38	0.58
1:C1:1165:G:H5"	1:C1:1166:A:OP2	2.03	0.58
1:C1:1245:G:C5	1:C1:1246:C:C5	2.92	0.58
1:C1:1352:G:N3	1:C1:1352:G:H2'	2.18	0.58
1:C1:1540:G:O2'	1:C1:1541:G:H5'	2.02	0.58
1:C1:1733:C:H2'	1:C1:1734:U:O4'	2.03	0.58
5:CD:195:ALA:O	5:CD:196:GLU:C	2.45	0.58
13:CL:35:ILE:O	13:CL:36:LYS:C	2.46	0.58
17:CP:61:SER:CB	17:CP:67:ALA:H	2.16	0.58
29:D1:126:U:O2'	29:D1:127:G:H8	1.75	0.58
29:D1:223:U:O2'	29:D1:224:C:OP1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:384:A:C8	29:D1:385:A:N7	2.72	0.58
29:D1:396:A:H4'	29:D1:397:A:OP1	2.03	0.58
29:D1:402:A:N6	46:DQ:21:TYR:CB	2.64	0.58
29:D1:504:A:C2'	29:D1:505:G:H5'	2.33	0.58
29:D1:727:G:C8	29:D1:743:C:N4	2.71	0.58
29:D1:826:G:OP1	29:D1:1590:G:O2'	2.17	0.58
29:D1:847:A:C6	29:D1:848:A:C6	2.92	0.58
29:D1:1111:U:O2'	29:D1:1112:A:O5'	2.14	0.58
29:D1:1140:G:N3	29:D1:1141:C:C5	2.71	0.58
29:D1:1639:C:H2'	29:D1:1640:G:O5'	2.03	0.58
29:D1:1656:A:C1'	29:D1:1657:C:C5	2.87	0.58
29:D1:1784:G:C6	29:D1:1785:U:C4	2.91	0.58
29:D1:1785:U:O2'	29:D1:1786:G:H8	1.85	0.58
29:D1:2365:C:H6	29:D1:2365:C:OP1	1.86	0.58
29:D1:2383:C:C2'	29:D1:2384:A:O5'	2.51	0.58
29:D1:2672:G:O6	29:D1:2683:U:O4	2.21	0.58
29:D1:3044:G:C2'	29:D1:3045:G:H5'	2.33	0.58
29:D1:3080:G:C6	29:D1:3081:C:C4	2.92	0.58
29:D1:3165:A:O2'	29:D1:3166:C:H5'	2.03	0.58
29:D1:3232:G:O6	29:D1:3255:U:O4	2.20	0.58
29:D1:3356:G:H2'	29:D1:3357:U:C4'	2.33	0.58
29:D1:3391:A:C2	29:D1:3392:U:C5	2.91	0.58
34:DC:132:LYS:C	34:DC:134:SER:H	2.11	0.58
34:DC:164:THR:O	34:DC:165:GLN:CB	2.51	0.58
36:DE:156:GLY:CA	36:DE:181:PRO:HA	2.33	0.58
36:DE:272:TYR:N	36:DE:273:ARG:HA	2.00	0.58
41:DJ:34:TYR:O	41:DJ:35:ASP:CB	2.51	0.58
42:DK:91:LEU:O	42:DK:92:ARG:C	2.46	0.58
46:DQ:9:THR:C	46:DQ:12:ALA:H	2.10	0.58
52:DW:55:ASN:O	52:DW:57:LEU:O	2.21	0.58
58:Dc:5:LYS:C	58:Dc:7:TYR:H	2.09	0.58
1:A1:113:U:C5'	1:A1:114:C:H5'	2.25	0.58
1:A1:426:G:C6	1:A1:427:C:N4	2.71	0.58
1:A1:795:U:C5	1:A1:796:A:C5	2.92	0.58
1:A1:848:C:H2'	1:A1:849:C:C6	2.37	0.58
1:A1:1031:U:H4'	1:A1:1032:G:OP2	2.02	0.58
1:A1:1061:A:H2'	1:A1:1062:A:O4'	2.03	0.58
1:A1:1087:A:C3'	1:A1:1088:A:H8	2.12	0.58
1:A1:1196:A:N7	1:A1:1602:C:H4'	2.18	0.58
1:A1:1449:U:H2'	1:A1:1450:U:O5'	2.03	0.58
1:A1:1467:C:H2'	1:A1:1468:U:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1521:G:N1	74:A1:1943:OHX:N4	2.52	0.58
1:A1:1690:G:N2	1:A1:1713:G:H1	2.00	0.58
29:B1:73:C:C5	29:B1:74:G:C8	2.91	0.58
29:B1:163:C:H5'	29:B1:164:A:OP2	2.03	0.58
29:B1:323:A:H5'	29:B1:324:A:OP2	2.04	0.58
29:B1:579:G:H2'	29:B1:580:C:C6	2.38	0.58
29:B1:883:A:C6	29:B1:921:A:C5	2.91	0.58
29:B1:1298:C:C4	29:B1:1299:U:C5	2.92	0.58
29:B1:1602:A:C5	29:B1:1603:A:C6	2.91	0.58
29:B1:1898:G:C8	29:B1:1899:G:N7	2.72	0.58
29:B1:2248:C:OP2	74:B1:3404:OHX:N3	2.36	0.58
29:B1:2290:C:C2	29:B1:2303:A:C2	2.90	0.58
29:B1:2665:U:N3	29:B1:2706:G:N1	2.51	0.58
29:B1:2675:C:C5	29:B1:2676:A:C6	2.88	0.58
29:B1:2896:A:O2'	29:B1:2897:A:O5'	2.21	0.58
29:B1:3107:U:H2'	29:B1:3108:G:C8	2.37	0.58
29:B1:3179:U:O5'	29:B1:3179:U:H6	1.87	0.58
29:B1:3343:G:C8	29:B1:3344:A:N7	2.71	0.58
30:B2:66:A:C8	30:B2:66:A:OP2	2.56	0.58
34:BC:261:MET:C	34:BC:263:SER:H	2.11	0.58
35:BD:168:ALA:C	35:BD:170:LYS:H	2.10	0.58
37:BF:21:THR:H	37:BF:112:THR:HA	1.66	0.58
47:BR:103:ALA:O	47:BR:104:LEU:C	2.46	0.58
48:BS:127:SER:C	48:BS:129:GLY:H	2.12	0.58
1:C1:125:U:HO2'	1:C1:126:A:H5'	1.65	0.58
1:C1:142:G:C6	1:C1:266:A:N7	2.70	0.58
1:C1:176:C:H3'	1:C1:177:U:H6	1.69	0.58
1:C1:181:A:C6	1:C1:182:A:N1	2.71	0.58
1:C1:248:U:C4'	1:C1:249:U:OP1	2.52	0.58
1:C1:389:G:C4	1:C1:390:G:N7	2.71	0.58
1:C1:635:A:C2	1:C1:863:A:C8	2.91	0.58
1:C1:749:U:OP1	16:CO:82:LYS:CB	2.51	0.58
1:C1:954:G:C5	1:C1:955:A:N7	2.71	0.58
1:C1:986:G:N3	1:C1:987:G:C8	2.71	0.58
1:C1:1005:A:H2'	1:C1:1006:C:O4'	2.02	0.58
1:C1:1102:G:C2'	1:C1:1103:U:O5'	2.51	0.58
1:C1:1228:G:N7	1:C1:1229:G:N7	2.51	0.58
1:C1:1242:A:O4'	10:CI:78:THR:HA	2.03	0.58
1:C1:1281:G:H4'	15:CN:75:GLY:HA2	1.83	0.58
1:C1:1407:U:C6	1:C1:1408:G:H8	2.20	0.58
1:C1:1501:C:H2'	1:C1:1502:G:C5'	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1751:C:O2	1:C1:1751:C:H2'	2.02	0.58
29:D1:9:U:C4	29:D1:10:C:C5	2.91	0.58
29:D1:283:G:H2'	29:D1:285:A:N7	2.19	0.58
29:D1:380:U:C2	29:D1:381:U:C5	2.91	0.58
29:D1:385:A:H2'	29:D1:386:A:H8	1.65	0.58
29:D1:412:G:C2	29:D1:413:U:C2	2.91	0.58
29:D1:423:A:N1	29:D1:424:G:C2	2.71	0.58
29:D1:596:C:C3'	29:D1:597:G:H5"	2.31	0.58
29:D1:645:A:C8	29:D1:649:A:C6	2.92	0.58
29:D1:720:A:H8	29:D1:720:A:P	2.26	0.58
29:D1:878:G:H2'	29:D1:2980:U:O2'	2.03	0.58
29:D1:915:A:H8	29:D1:916:G:H4'	1.67	0.58
29:D1:1121:U:H2'	29:D1:1122:U:C6	2.38	0.58
29:D1:1353:U:C5	29:D1:1355:A:N6	2.71	0.58
29:D1:1405:U:C5'	57:Db:58:GLY:HA2	2.20	0.58
29:D1:1915:A:O2'	29:D1:1916:U:H5'	2.03	0.58
29:D1:1933:A:C8	29:D1:1934:G:C8	2.91	0.58
29:D1:2117:A:H3'	29:D1:2118:C:C5	2.37	0.58
29:D1:2181:C:H2'	29:D1:2182:A:O5'	2.03	0.58
29:D1:2746:A:H2'	29:D1:2747:A:O4'	2.03	0.58
29:D1:2888:U:C2	29:D1:2911:A:C6	2.90	0.58
29:D1:2900:A:C2	29:D1:2901:G:C4	2.91	0.58
29:D1:3094:A:H2'	29:D1:3095:U:H6	1.68	0.58
29:D1:3171:U:O2'	29:D1:3172:A:OP2	2.22	0.58
29:D1:3225:C:H5	74:D1:3489:OHX:N6	2.01	0.58
30:D2:3:U:N3	30:D2:4:U:C5	2.72	0.58
30:D2:26:C:O2'	30:D2:27:A:O5'	2.21	0.58
34:DC:193:ASP:C	34:DC:195:ALA:N	2.57	0.58
36:DE:194:LEU:C	36:DE:196:ARG:N	2.60	0.58
38:DG:223:PHE:C	38:DG:224:ILE:O	2.43	0.58
39:DH:187:GLY:HA3	39:DH:194:THR:C	2.28	0.58
42:DK:87:LYS:O	42:DK:89:TYR:N	2.36	0.58
72:DL:88:PRO:O	72:DL:90:ARG:N	2.36	0.58
73:DM:55:LYS:O	73:DM:59:VAL:N	2.35	0.58
44:DO:82:GLY:HA3	44:DO:87:GLN:CB	2.33	0.58
45:DP:38:ALA:O	45:DP:39:GLU:C	2.45	0.58
47:DR:144:ARG:O	47:DR:145:ASN:O	2.20	0.58
49:DT:31:LEU:O	49:DT:32:LYS:O	2.21	0.58
1:A1:33:U:H6	1:A1:33:U:H3'	1.68	0.58
1:A1:50:C:C2	1:A1:424:C:C5	2.92	0.58
1:A1:240:U:O2'	1:A1:241:U:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:542:A:HO2'	1:A1:543:C:H3'	1.66	0.58
1:A1:647:G:C2	1:A1:687:G:N2	2.71	0.58
1:A1:697:C:C3'	1:A1:698:U:C5'	2.82	0.58
1:A1:743:U:C5	1:A1:809:A:C2	2.91	0.58
1:A1:1008:G:H5'	1:A1:1009:U:OP2	2.02	0.58
1:A1:1120:U:C2	1:A1:1121:C:C5	2.92	0.58
1:A1:1139:A:H2'	1:A1:1140:G:C5'	2.34	0.58
1:A1:1209:C:C2	1:A1:1455:G:N2	2.72	0.58
1:A1:1243:G:N2	1:A1:1452:U:H4'	2.17	0.58
1:A1:1446:A:O2'	1:A1:1448:G:N7	2.30	0.58
1:A1:1554:U:H5'	1:A1:1555:A:OP2	2.03	0.58
1:A1:1744:A:H2'	1:A1:1745:G:H5'	1.85	0.58
2:AA:106:SER:C	2:AA:108:THR:N	2.58	0.58
11:AJ:46:PHE:C	11:AJ:48:VAL:N	2.52	0.58
13:AL:116:LEU:O	13:AL:118:LYS:N	2.36	0.58
23:Ab:52:UNK:HA	23:Ab:55:UNK:CB	2.33	0.58
29:B1:23:A:H3'	29:B1:24:G:C8	2.35	0.58
29:B1:52:A:C2'	29:B1:53:G:O5'	2.50	0.58
29:B1:156:G:N7	29:B1:157:A:H1'	2.18	0.58
29:B1:310:U:H3'	29:B1:311:C:H5"	1.85	0.58
29:B1:498:A:O2'	29:B1:499:G:H5'	2.03	0.58
29:B1:543:C:C3'	29:B1:544:C:H5'	2.33	0.58
29:B1:548:G:H8	29:B1:548:G:OP2	1.87	0.58
29:B1:703:G:N3	29:B1:703:G:C2'	2.60	0.58
29:B1:812:G:H2'	29:B1:813:G:H8	1.68	0.58
29:B1:1377:G:N3	29:B1:1378:U:C6	2.71	0.58
29:B1:1412:G:H2'	29:B1:1413:G:H8	1.68	0.58
29:B1:1449:A:H2'	29:B1:1450:G:O4'	2.03	0.58
29:B1:1453:A:O4'	29:B1:1850:A:N1	2.36	0.58
29:B1:1454:A:O5'	29:B1:1878:G:N1	2.37	0.58
29:B1:1607:U:O2'	29:B1:1608:C:O5'	2.18	0.58
29:B1:1662:G:H2'	29:B1:1663:C:H6	1.69	0.58
29:B1:1779:C:OP1	29:B1:1780:G:OP1	2.22	0.58
29:B1:1841:A:C2	29:B1:1848:G:C8	2.91	0.58
29:B1:1901:A:O2'	29:B1:2918:G:O5'	2.22	0.58
29:B1:2393:G:C5	29:B1:2982:A:C2	2.91	0.58
29:B1:2515:A:H3'	29:B1:2516:U:C5	2.37	0.58
29:B1:2609:A:N3	29:B1:2610:G:C8	2.71	0.58
29:B1:3160:U:C4	29:B1:3161:C:N4	2.71	0.58
29:B1:3180:A:C2	45:BP:166:GLU:CB	2.86	0.58
29:B1:3241:G:N2	29:B1:3246:G:C2	2.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:15:C:N4	30:B2:16:U:C4	2.71	0.58
31:B3:53:A:H2'	31:B3:54:A:H8	1.68	0.58
31:B3:90:U:H2'	31:B3:91:C:C6	2.38	0.58
31:B3:118:C:H2'	31:B3:118:C:O2	2.02	0.58
35:BD:63:GLU:O	35:BD:75:PRO:CA	2.46	0.58
35:BD:66:GLY:O	35:BD:67:THR:C	2.45	0.58
36:BE:222:LEU:O	36:BE:224:LYS:N	2.37	0.58
36:BE:241:THR:C	36:BE:243:ALA:N	2.62	0.58
37:BF:131:LYS:O	37:BF:132:ALA:C	2.46	0.58
42:BK:133:ARG:CA	42:BK:155:THR:H	2.15	0.58
43:BN:97:SER:C	43:BN:99:TRP:N	2.60	0.58
46:BQ:111:LYS:O	46:BQ:112:LEU:C	2.47	0.58
49:BT:56:PHE:C	49:BT:58:GLN:H	2.11	0.58
70:Bq:14:UNK:O	70:Bq:16:UNK:N	2.36	0.58
1:C1:38:C:C3'	1:C1:39:A:H5"	2.33	0.58
1:C1:974:A:C5'	29:D1:848:A:O2'	2.51	0.58
1:C1:1140:G:C2	1:C1:1141:G:N7	2.72	0.58
1:C1:1322:A:H2'	1:C1:1323:C:H6	1.68	0.58
1:C1:1371:A:N1	1:C1:1372:U:C4	2.71	0.58
1:C1:1410:A:N7	1:C1:1411:A:C4	2.71	0.58
1:C1:1468:U:HO2'	1:C1:1469:A:C5'	2.15	0.58
1:C1:1570:A:H3'	1:C1:1571:C:C6	2.38	0.58
29:D1:13:A:H2	29:D1:15:C:H3'	1.69	0.58
29:D1:269:G:N1	29:D1:294:U:C5	2.71	0.58
29:D1:340:C:H6	29:D1:340:C:C5'	2.15	0.58
29:D1:377:A:H1'	29:D1:392:G:N2	2.19	0.58
29:D1:386:A:C2'	29:D1:387:A:O5'	2.51	0.58
29:D1:397:A:H4'	29:D1:398:A:H5'	1.84	0.58
29:D1:661:G:N1	29:D1:802:C:C5	2.71	0.58
29:D1:949:C:O2	29:D1:971:G:H5"	2.02	0.58
29:D1:955:U:N3	29:D1:956:U:C4	2.72	0.58
29:D1:1546:A:N7	29:D1:1547:G:C5	2.71	0.58
29:D1:1551:C:H2'	29:D1:1552:G:C8	2.38	0.58
29:D1:1627:U:C5	29:D1:1628:C:N3	2.71	0.58
29:D1:2144:A:N3	29:D1:2281:A:N6	2.51	0.58
29:D1:2149:A:C2'	29:D1:2150:G:O5'	2.52	0.58
29:D1:2217:U:O2'	29:D1:2218:G:H5'	2.03	0.58
29:D1:2342:U:O2'	29:D1:2343:C:H5'	2.03	0.58
29:D1:2355:G:OP1	46:DQ:141:SER:CB	2.52	0.58
29:D1:2568:C:C2'	29:D1:2569:A:H4'	2.33	0.58
29:D1:2677:G:N2	29:D1:2679:A:N3	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2678:A:H3'	29:D1:2679:A:N3	2.18	0.58
29:D1:2894:C:C2	29:D1:2908:G:C2	2.91	0.58
29:D1:2904:U:O2	29:D1:2904:U:H2'	2.02	0.58
29:D1:2917:G:O2'	29:D1:2918:G:O5'	2.21	0.58
29:D1:2933:A:N7	29:D1:2934:A:C6	2.71	0.58
29:D1:3021:A:C4	29:D1:3023:U:C4	2.91	0.58
29:D1:3182:G:N2	29:D1:3189:G:OP1	2.32	0.58
29:D1:3262:U:O2	29:D1:3263:G:C8	2.57	0.58
30:D2:42:A:H2	30:D2:47:C:C5	2.21	0.58
30:D2:68:C:C2'	30:D2:69:C:O4'	2.51	0.58
31:D3:106:C:O4'	31:D3:138:A:H8	1.86	0.58
34:DC:41:VAL:CB	34:DC:186:GLY:H	2.16	0.58
41:DJ:66:GLU:O	41:DJ:67:ALA:C	2.44	0.58
42:DK:65:ILE:O	42:DK:66:ALA:CB	2.51	0.58
43:DN:28:SER:O	43:DN:29:ALA:HB2	2.02	0.58
62:Dg:42:CYS:O	74:Dg:101:OHX:N5	2.36	0.58
63:Dh:9:UNK:O	63:Dh:12:UNK:N	2.36	0.58
1:A1:23:G:C5	1:A1:24:U:C5	2.91	0.58
1:A1:64:U:O2	1:A1:64:U:C2'	2.51	0.58
1:A1:238:U:O5'	1:A1:239:C:H3'	2.02	0.58
1:A1:534:A:C3'	1:A1:535:A:C8	2.86	0.58
1:A1:623:A:H2	1:A1:1105:C:O2'	1.85	0.58
1:A1:722:G:H2'	1:A1:722:G:N3	2.19	0.58
1:A1:975:C:H2'	1:A1:976:G:H8	1.69	0.58
1:A1:1092:A:N3	1:A1:1094:G:N7	2.51	0.58
1:A1:1167:G:H2'	1:A1:1167:G:N3	2.19	0.58
1:A1:1347:U:H2'	1:A1:1349:G:C5	2.39	0.58
1:A1:1627:U:O2'	1:A1:1628:U:O5'	2.21	0.58
1:A1:1653:C:N4	1:A1:1654:G:C6	2.70	0.58
1:A1:1720:G:C5	1:A1:1721:A:C4	2.91	0.58
1:A1:1722:A:H5'	1:A1:1723:U:C5	2.39	0.58
3:AB:147:ASN:C	3:AB:149:GLY:H	2.12	0.58
13:AL:26:ILE:O	13:AL:27:LYS:O	2.21	0.58
19:AR:25:VAL:C	19:AR:38:ARG:HA	2.28	0.58
29:B1:114:A:C2	29:B1:267:G:C2	2.92	0.58
29:B1:115:A:H2'	29:B1:116:A:C2	2.39	0.58
29:B1:158:G:C8	29:B1:159:A:H4'	2.38	0.58
29:B1:344:A:C5	29:B1:345:G:N7	2.72	0.58
29:B1:431:U:O2'	29:B1:432:G:O5'	2.21	0.58
29:B1:609:G:N7	29:B1:610:G:C6	2.71	0.58
29:B1:802:C:C2	29:B1:803:C:C5	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:802:C:H2'	29:B1:803:C:H6	1.68	0.58
29:B1:807:A:C5'	29:B1:808:A:OP2	2.45	0.58
29:B1:873:C:H3'	29:B1:874:U:H4'	1.85	0.58
29:B1:882:A:H2	29:B1:885:U:C6	2.22	0.58
29:B1:1268:G:N7	29:B1:1269:U:H1'	2.17	0.58
29:B1:1415:U:C2'	29:B1:1416:C:H6	1.86	0.58
29:B1:1530:U:O2	29:B1:1530:U:C2'	2.52	0.58
29:B1:1604:G:C6	29:B1:1605:A:C5	2.91	0.58
29:B1:2253:G:C5	29:B1:2254:U:N3	2.72	0.58
29:B1:2270:A:C8	29:B1:2270:A:C5'	2.76	0.58
29:B1:2617:U:H4'	29:B1:2644:C:C5	2.39	0.58
30:B2:9:C:H5	30:B2:10:C:O2	1.83	0.58
30:B2:25:G:C4	30:B2:26:C:N4	2.71	0.58
33:BB:98:VAL:C	33:BB:99:GLY:O	2.45	0.58
34:BC:154:TYR:CB	34:BC:155:ALA:HA	2.33	0.58
34:BC:191:LYS:O	34:BC:192:VAL:C	2.46	0.58
38:BG:53:LYS:O	38:BG:54:GLU:C	2.46	0.58
41:BJ:56:GLU:O	41:BJ:57:LEU:C	2.47	0.58
43:BN:88:ALA:O	43:BN:90:VAL:N	2.37	0.58
49:BT:28:SER:C	49:BT:30:TYR:N	2.61	0.58
1:C1:448:C:C2	1:C1:449:C:C5	2.91	0.58
1:C1:450:U:H5"	1:C1:451:A:OP2	2.03	0.58
1:C1:1147:A:C2	1:C1:1148:C:C2	2.91	0.58
1:C1:1203:A:C4	1:C1:1555:A:N1	2.72	0.58
1:C1:1650:U:H2'	1:C1:1651:A:C8	2.39	0.58
7:CF:122:ILE:N	7:CF:144:ALA:HB3	2.16	0.58
13:CL:76:PRO:CA	13:CL:81:ILE:H	2.16	0.58
13:CL:78:HIS:O	13:CL:79:TYR:C	2.47	0.58
14:CM:58:ALA:C	14:CM:60:SER:H	2.10	0.58
14:CM:60:SER:C	14:CM:62:ALA:H	2.11	0.58
16:CO:103:ILE:HA	16:CO:112:ASP:HA	1.85	0.58
29:D1:88:A:C5	29:D1:99:A:N6	2.71	0.58
29:D1:185:C:H2'	29:D1:186:U:C6	2.38	0.58
29:D1:252:U:H3'	29:D1:253:A:C5'	2.33	0.58
29:D1:361:A:O2'	29:D1:362:U:C4'	2.52	0.58
29:D1:512:U:N1	29:D1:579:G:N2	2.52	0.58
29:D1:608:A:H3'	29:D1:608:A:H8	1.68	0.58
29:D1:776:U:C3'	29:D1:777:U:C5'	2.81	0.58
29:D1:927:C:O2'	29:D1:928:C:H5'	2.03	0.58
29:D1:1149:G:H3'	29:D1:1150:A:H5"	1.84	0.58
29:D1:1156:C:H5"	29:D1:1157:G:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1196:C:H5	29:D1:1197:A:C5	2.20	0.58
29:D1:1357:G:H2'	29:D1:1357:G:N3	2.18	0.58
29:D1:1376:C:C4	29:D1:1377:G:N7	2.72	0.58
29:D1:1597:C:H5'	29:D1:1696:A:H1'	1.84	0.58
29:D1:2119:A:N7	29:D1:2120:A:C2	2.71	0.58
29:D1:2370:G:H2'	29:D1:2371:G:H8	1.68	0.58
29:D1:2916:U:C5	29:D1:2935:U:C2	2.91	0.58
29:D1:2933:A:N6	29:D1:2934:A:N1	2.51	0.58
29:D1:3045:G:H2'	29:D1:3046:A:O4'	2.03	0.58
29:D1:3186:A:H4'	29:D1:3187:A:O5'	2.02	0.58
29:D1:3268:A:O3'	29:D1:3269:U:H4'	2.04	0.58
29:D1:3292:A:O2'	29:D1:3293:U:O3'	2.16	0.58
29:D1:3309:G:C5	29:D1:3310:A:H1'	2.39	0.58
30:D2:43:U:H2'	30:D2:44:C:H5'	1.84	0.58
30:D2:46:A:C8	30:D2:47:C:C5	2.91	0.58
33:DB:223:SER:O	33:DB:236:GLY:O	2.22	0.58
35:DD:159:ILE:C	35:DD:161:LYS:H	2.11	0.58
38:DG:102:VAL:O	38:DG:103:LEU:C	2.45	0.58
39:DH:86:THR:O	39:DH:87:ALA:C	2.46	0.58
39:DH:178:ALA:O	39:DH:180:VAL:N	2.36	0.58
41:DJ:77:THR:O	41:DJ:79:VAL:N	2.36	0.58
72:DL:24:ALA:HB3	72:DL:27:ALA:HB3	1.85	0.58
73:DM:56:ASN:HA	73:DM:59:VAL:CB	2.33	0.58
46:DQ:28:ASN:O	46:DQ:30:ARG:N	2.35	0.58
50:DU:81:GLN:O	50:DU:82:ALA:HB2	2.03	0.58
56:Da:36:ILE:O	56:Da:37:LYS:C	2.45	0.58
1:A1:269:G:H2'	1:A1:270:C:C6	2.38	0.58
1:A1:425:A:H8	1:A1:425:A:H5'	1.68	0.58
1:A1:480:G:C4	1:A1:481:A:C8	2.91	0.58
1:A1:699:U:H5'	1:A1:700:C:P	2.43	0.58
1:A1:828:U:O2'	1:A1:829:A:H5'	2.03	0.58
1:A1:1000:C:H2'	1:A1:1002:G:N7	2.18	0.58
1:A1:1082:C:C5	1:A1:1083:G:N7	2.71	0.58
1:A1:1139:A:H2'	1:A1:1140:G:O4'	2.03	0.58
1:A1:1199:G:C5	1:A1:1200:G:C1'	2.87	0.58
1:A1:1228:G:N7	1:A1:1229:G:N7	2.51	0.58
1:A1:1345:A:N7	1:A1:1347:U:N3	2.51	0.58
1:A1:1410:A:N6	1:A1:1411:A:C2	2.72	0.58
1:A1:1540:G:C5	1:A1:1541:G:C5	2.92	0.58
14:AM:67:MET:O	14:AM:69:LYS:C	2.47	0.58
17:AP:43:PHE:C	17:AP:45:GLY:H	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:280:U:C6	29:B1:282:G:OP2	2.56	0.58
29:B1:341:G:O2'	31:B3:22:U:O4	2.21	0.58
29:B1:383:G:O2'	29:B1:385:A:C8	2.52	0.58
29:B1:422:A:H3'	29:B1:2364:G:H5"	1.86	0.58
29:B1:722:G:O2'	29:B1:723:U:P	2.62	0.58
29:B1:747:A:C6	29:B1:748:U:H5	2.22	0.58
29:B1:783:A:N6	74:B1:3483:OHX:N5	2.51	0.58
29:B1:792:G:H2'	29:B1:793:C:C6	2.38	0.58
29:B1:826:G:H21	29:B1:1589:A:N6	1.92	0.58
29:B1:858:A:H3'	29:B1:859:G:H8	1.67	0.58
29:B1:933:A:H3'	29:B1:934:G:H5'	1.84	0.58
29:B1:1063:G:C5'	29:B1:1098:A:P	2.89	0.58
29:B1:1104:G:H2'	29:B1:1105:A:O4'	2.03	0.58
29:B1:1106:G:C5	29:B1:1107:C:C5	2.91	0.58
29:B1:1131:G:N3	29:B1:2373:A:C2	2.71	0.58
29:B1:1194:G:C4'	29:B1:1320:C:OP1	2.52	0.58
29:B1:1224:C:O2'	29:B1:1225:A:O5'	2.21	0.58
29:B1:1367:G:O2'	29:B1:1368:U:P	2.62	0.58
29:B1:1382:G:H2'	29:B1:1383:G:O4'	2.03	0.58
29:B1:1584:U:O2'	29:B1:1585:C:H5'	2.03	0.58
29:B1:1729:A:H61	62:Bg:42:CYS:CB	2.16	0.58
29:B1:1753:G:N3	29:B1:1754:G:C8	2.71	0.58
29:B1:2136:C:H2'	29:B1:2136:C:O2	2.03	0.58
29:B1:2611:U:C2'	29:B1:2612:U:C6	2.74	0.58
29:B1:2664:C:H2'	29:B1:2664:C:O2	2.03	0.58
29:B1:3003:G:C2	29:B1:3004:C:C5	2.90	0.58
29:B1:3044:G:O2'	29:B1:3045:G:H5'	2.03	0.58
29:B1:3050:U:H5"	29:B1:3051:U:OP2	2.04	0.58
29:B1:3055:U:O3'	29:B1:3056:U:C5	2.56	0.58
29:B1:3153:U:O5'	29:B1:3153:U:H6	1.86	0.58
29:B1:3190:C:O2	29:B1:3190:C:C2'	2.51	0.58
29:B1:3202:G:H3'	29:B1:3202:G:P	2.43	0.58
29:B1:3277:U:C6	29:B1:3277:U:H3'	2.39	0.58
29:B1:3387:U:H2'	29:B1:3388:C:H5	1.62	0.58
30:B2:48:U:C5	30:B2:49:G:O6	2.57	0.58
30:B2:64:A:C1'	30:B2:65:G:H5"	2.32	0.58
31:B3:42:G:C2	31:B3:43:A:C8	2.91	0.58
31:B3:74:U:H4'	31:B3:89:A:N3	2.18	0.58
34:BC:196:ARG:O	34:BC:197:GLU:O	2.21	0.58
35:BD:237:GLN:O	35:BD:239:ALA:N	2.35	0.58
39:BH:158:ASP:HA	39:BH:159:PRO:C	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BJ:42:THR:C	41:BJ:44:ASP:H	2.12	0.58
44:BO:30:TYR:O	44:BO:31:ARG:C	2.44	0.58
44:BO:146:ALA:C	44:BO:148:TYR:H	2.10	0.58
1:C1:196:G:H1'	1:C1:197:A:H5'	1.86	0.58
1:C1:354:C:OP2	74:C1:1908:OHX:N5	2.37	0.58
1:C1:426:G:H21	1:C1:459:G:H2'	1.68	0.58
1:C1:449:C:H2'	1:C1:450:U:C6	2.38	0.58
1:C1:649:U:O4	1:C1:685:A:N1	2.37	0.58
1:C1:773:C:H4'	1:C1:774:A:OP1	2.03	0.58
1:C1:990:C:H4'	9:CH:127:ARG:O	2.04	0.58
1:C1:1082:C:C5	1:C1:1083:G:N7	2.72	0.58
1:C1:1123:C:C2'	1:C1:1124:A:O5'	2.51	0.58
1:C1:1227:A:H4'	1:C1:1230:A:N6	2.17	0.58
1:C1:1554:U:H5'	1:C1:1555:A:OP2	2.02	0.58
1:C1:1584:G:C5	11:CJ:123:ARG:O	2.56	0.58
15:CN:24:ILE:HA	15:CN:115:GLU:O	2.03	0.58
16:CO:125:ILE:O	16:CO:127:GLY:N	2.37	0.58
18:CQ:66:VAL:C	18:CQ:68:ARG:H	2.11	0.58
29:D1:154:U:P	29:D1:156:G:O6	2.60	0.58
29:D1:244:G:C5	29:D1:245:U:O2	2.56	0.58
29:D1:400:G:H5"	29:D1:403:C:H1'	1.85	0.58
29:D1:528:U:O4	29:D1:564:G:O6	2.20	0.58
29:D1:557:A:C8	29:D1:557:A:C3'	2.86	0.58
29:D1:733:G:N2	29:D1:736:A:N1	2.52	0.58
29:D1:773:G:O2'	29:D1:774:G:O4'	2.21	0.58
29:D1:773:G:H21	29:D1:774:G:H1'	1.68	0.58
29:D1:1472:U:O2'	29:D1:1473:G:H5'	2.03	0.58
29:D1:1731:A:C6	29:D1:1732:U:C2	2.91	0.58
29:D1:2143:A:O2'	29:D1:2144:A:H5'	2.03	0.58
29:D1:2174:G:C8	29:D1:2174:G:OP1	2.53	0.58
29:D1:2300:G:C6	29:D1:2301:U:C4	2.92	0.58
29:D1:2407:C:C2	29:D1:2815:G:N2	2.72	0.58
29:D1:2640:A:C5	29:D1:2641:U:C4	2.91	0.58
29:D1:2749:G:N7	29:D1:2750:U:C5	2.72	0.58
29:D1:2912:G:C6	29:D1:2913:C:O2	2.57	0.58
29:D1:3065:G:O2'	29:D1:3066:U:O5'	2.22	0.58
29:D1:3191:G:C2	29:D1:3202:G:N3	2.71	0.58
29:D1:3218:A:HO2'	29:D1:3219:G:P	2.25	0.58
29:D1:3378:C:O2	29:D1:3378:C:C2'	2.48	0.58
29:D1:3392:U:N3	29:D1:3393:U:N3	2.51	0.58
31:D3:113:U:HO2'	31:D3:114:G:P	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DO:99:ARG:O	44:DO:102:ALA:HB3	2.03	0.58
46:DQ:85:ALA:O	46:DQ:86:LYS:C	2.47	0.58
52:DW:94:GLN:O	52:DW:95:ILE:C	2.46	0.58
57:Db:61:LYS:C	57:Db:63:THR:H	2.09	0.58
1:A1:214:G:C2'	1:A1:215:A:H5'	2.33	0.58
1:A1:217:A:H1'	1:A1:218:A:C5'	2.33	0.58
1:A1:228:G:HO2'	1:A1:229:U:H6	1.50	0.58
1:A1:365:G:OP2	1:A1:365:G:H8	1.85	0.58
1:A1:374:U:C4	1:A1:375:U:C4	2.91	0.58
1:A1:463:U:H2'	1:A1:464:A:C8	2.39	0.58
1:A1:482:U:H2'	1:A1:483:A:C8	2.39	0.58
1:A1:487:G:C2	1:A1:488:G:N7	2.71	0.58
1:A1:635:A:C4	1:A1:863:A:C8	2.92	0.58
1:A1:693:U:H3'	1:A1:694:U:H5'	1.86	0.58
1:A1:776:G:C6	1:A1:785:U:N3	2.72	0.58
1:A1:955:A:C2	1:A1:956:C:C2	2.91	0.58
1:A1:1275:A:OP1	1:A1:1275:A:H8	1.85	0.58
1:A1:1352:G:N3	1:A1:1352:G:H2'	2.18	0.58
1:A1:1395:G:C2'	1:A1:1396:U:H5'	2.34	0.58
1:A1:1397:U:H5"	1:A1:1398:U:OP2	2.03	0.58
1:A1:1526:A:H8	1:A1:1526:A:O5'	1.87	0.58
1:A1:1541:G:C5	1:A1:1542:G:C6	2.92	0.58
1:A1:1598:U:C5	1:A1:1599:C:C5	2.92	0.58
1:A1:1762:A:OP1	1:A1:1763:A:OP2	2.22	0.58
2:AA:8:ASP:C	2:AA:10:THR:N	2.58	0.58
8:AG:138:ASN:O	8:AG:140:LYS:N	2.36	0.58
13:AL:75:ASN:O	13:AL:78:HIS:O	2.22	0.58
29:B1:40:A:H3'	29:B1:41:G:H5'	1.86	0.58
29:B1:153:U:C3'	29:B1:158:G:H21	2.17	0.58
29:B1:156:G:H1'	29:B1:157:A:C4'	2.33	0.58
29:B1:225:C:H2'	29:B1:226:C:H6	1.68	0.58
29:B1:424:G:C2'	29:B1:425:G:OP1	2.52	0.58
29:B1:677:A:N6	29:B1:786:A:O2'	2.36	0.58
29:B1:760:G:H2'	29:B1:761:A:C8	2.38	0.58
29:B1:762:U:O4	74:B1:3479:OHX:N6	2.35	0.58
29:B1:776:U:C6	29:B1:777:U:C1'	2.86	0.58
29:B1:776:U:C3'	29:B1:777:U:C5'	2.80	0.58
29:B1:934:G:C5	29:B1:935:U:C4	2.92	0.58
29:B1:934:G:N3	29:B1:935:U:C6	2.72	0.58
29:B1:974:G:C6	29:B1:975:C:C4	2.92	0.58
29:B1:1079:A:H8	29:B1:1079:A:OP1	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1153:A:C8	29:B1:1154:A:C5	2.91	0.58
29:B1:1659:U:C2	29:B1:1660:C:C5	2.91	0.58
29:B1:2092:A:H5"	29:B1:2093:A:OP2	2.04	0.58
29:B1:2149:A:C8	29:B1:2149:A:H3'	2.39	0.58
29:B1:2343:C:H2'	29:B1:2344:U:C6	2.39	0.58
29:B1:2352:A:H2'	29:B1:2353:G:C8	2.38	0.58
29:B1:2386:A:C8	29:B1:2387:A:C8	2.92	0.58
29:B1:2698:G:C3'	29:B1:2699:G:H5"	2.33	0.58
29:B1:3020:U:H2'	29:B1:3021:A:C8	2.39	0.58
29:B1:3065:G:H2'	29:B1:3066:U:C6	2.37	0.58
29:B1:3102:G:H8	29:B1:3102:G:C5'	2.14	0.58
30:B2:10:C:O2'	30:B2:13:A:C8	2.56	0.58
30:B2:85:G:O6	30:B2:95:A:N1	2.37	0.58
34:BC:164:THR:O	34:BC:165:GLN:CB	2.52	0.58
36:BE:156:GLY:CA	36:BE:181:PRO:HA	2.34	0.58
43:BN:28:SER:O	43:BN:29:ALA:HB2	2.02	0.58
57:Bb:108:ILE:O	57:Bb:109:LEU:O	2.22	0.58
58:Bc:5:LYS:C	58:Bc:7:TYR:N	2.61	0.58
61:Bf:47:GLN:N	61:Bf:48:SER:CA	2.66	0.58
1:C1:50:C:N3	1:C1:424:C:C5	2.72	0.58
1:C1:80:A:H2'	1:C1:80:A:N3	2.18	0.58
1:C1:89:G:O6	74:C1:1995:OHX:N6	2.37	0.58
1:C1:173:A:N6	1:C1:174:U:C5	2.71	0.58
1:C1:176:C:H3'	1:C1:177:U:C6	2.39	0.58
1:C1:335:U:H3'	1:C1:336:G:N7	2.15	0.58
1:C1:362:G:C6	1:C1:363:G:C5	2.91	0.58
1:C1:623:A:N1	1:C1:1105:C:H4'	2.18	0.58
1:C1:739:G:OP2	1:C1:739:G:C8	2.56	0.58
1:C1:776:G:N1	1:C1:785:U:C2	2.71	0.58
1:C1:1046:G:C5	1:C1:1073:G:N2	2.72	0.58
1:C1:1391:A:C4	1:C1:1392:U:C5	2.92	0.58
1:C1:1418:G:C2'	1:C1:1419:G:H5'	2.33	0.58
1:C1:1689:A:OP1	1:C1:1689:A:H4'	2.01	0.58
2:CA:109:ASN:O	2:CA:111:ILE:O	2.21	0.58
4:CC:15:GLY:HA2	20:CS:49:ASP:O	2.04	0.58
7:CF:132:SER:O	7:CF:133:LYS:C	2.46	0.58
20:CS:41:GLN:N	74:CS:101:OHX:N1	2.51	0.58
29:D1:199:A:C2	29:D1:201:A:C8	2.92	0.58
29:D1:311:C:C4	29:D1:312:C:C5	2.90	0.58
29:D1:341:G:O2'	31:D3:22:U:O4	2.21	0.58
29:D1:572:A:C6	29:D1:573:C:C4	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:934:G:N3	29:D1:935:U:C6	2.72	0.58
29:D1:963:G:C8	29:D1:963:G:C3'	2.87	0.58
29:D1:999:G:C6	29:D1:1000:C:N4	2.72	0.58
29:D1:1052:U:C5	29:D1:1053:A:C8	2.92	0.58
29:D1:1271:A:N6	29:D1:1272:C:N4	2.52	0.58
29:D1:1332:A:O5'	29:D1:1332:A:H8	1.87	0.58
29:D1:1630:U:H3'	29:D1:1813:A:N1	2.19	0.58
29:D1:1656:A:C4	29:D1:1657:C:N4	2.71	0.58
29:D1:1660:C:O2'	29:D1:1661:G:C8	2.56	0.58
29:D1:2095:G:H2'	29:D1:2096:A:H5'	1.84	0.58
29:D1:2143:A:N7	29:D1:2145:A:C5	2.72	0.58
29:D1:2581:U:OP2	29:D1:2581:U:H6	1.86	0.58
29:D1:2719:U:H4'	29:D1:2719:U:OP1	2.02	0.58
29:D1:2777:G:N3	29:D1:2777:G:C2'	2.63	0.58
29:D1:2808:A:H4'	29:D1:2809:C:C5'	2.33	0.58
29:D1:3027:A:C5	29:D1:3028:G:C5	2.92	0.58
29:D1:3062:G:C6	29:D1:3063:C:C4	2.91	0.58
29:D1:3143:C:OP2	29:D1:3144:G:H5"	2.04	0.58
29:D1:3180:A:H8	45:DP:114:LYS:HA	1.69	0.58
30:D2:9:C:O2'	30:D2:13:A:N6	2.37	0.58
30:D2:105:C:H2'	30:D2:106:U:C5'	2.34	0.58
31:D3:109:A:H2'	31:D3:110:C:H5'	1.84	0.58
31:D3:121:U:H3	31:D3:132:G:H1	1.49	0.58
33:DB:198:LYS:O	33:DB:200:ARG:N	2.36	0.58
36:DE:170:GLY:O	36:DE:171:LEU:O	2.20	0.58
42:DK:74:PRO:C	42:DK:76:ALA:H	2.11	0.58
73:DM:59:VAL:O	73:DM:62:ALA:HB3	2.03	0.58
45:DP:142:SER:O	45:DP:146:GLY:N	2.37	0.58
1:A1:64:U:H5'	1:A1:65:A:P	2.44	0.58
1:A1:272:U:C4'	1:A1:273:G:OP2	2.51	0.58
1:A1:327:U:H5"	1:A1:328:A:OP2	2.04	0.58
1:A1:426:G:C2	1:A1:427:C:C5	2.92	0.58
1:A1:533:U:C3'	1:A1:534:A:H8	2.14	0.58
1:A1:544:A:O2'	1:A1:545:A:O5'	2.18	0.58
1:A1:643:G:N1	1:A1:692:C:C4	2.72	0.58
1:A1:829:A:HO2'	1:A1:830:U:P	2.23	0.58
1:A1:854:U:O2'	1:A1:855:A:H5'	2.04	0.58
1:A1:1032:G:N3	1:A1:1033:C:C6	2.72	0.58
1:A1:1330:G:C2'	1:A1:1331:A:H8	2.17	0.58
1:A1:1685:G:N3	1:A1:1719:A:C2	2.72	0.58
1:A1:1723:U:C2	1:A1:1724:U:C6	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1756:A:N7	74:A1:1901:OHX:N2	2.52	0.58
4:AC:133:GLY:HA3	4:AC:155:GLY:HA3	1.84	0.58
5:AD:92:ARG:O	5:AD:94:THR:N	2.37	0.58
6:AE:143:ILE:C	6:AE:145:SER:H	2.11	0.58
9:AH:42:VAL:O	9:AH:43:THR:O	2.21	0.58
29:B1:21:G:O2'	31:B3:37:A:N6	2.35	0.58
29:B1:47:C:C4	29:B1:48:A:C5	2.91	0.58
29:B1:230:U:H2'	29:B1:231:G:O4'	2.03	0.58
29:B1:337:G:N2	31:B3:27:U:O2	2.37	0.58
29:B1:355:A:N1	29:B1:365:A:C4	2.71	0.58
29:B1:404:G:C2	29:B1:405:U:C1'	2.83	0.58
29:B1:513:G:H1'	37:BF:148:GLU:CB	2.33	0.58
29:B1:516:A:C3'	29:B1:517:G:H8	2.11	0.58
29:B1:523:A:C5	29:B1:524:U:C5	2.92	0.58
29:B1:707:U:OP1	29:B1:782:U:O2'	2.17	0.58
29:B1:749:C:C2	29:B1:750:G:C8	2.91	0.58
29:B1:817:A:C6	59:Bd:14:LYS:HA	2.38	0.58
29:B1:830:A:C5	29:B1:865:U:O2	2.57	0.58
29:B1:864:G:O6	29:B1:893:C:H3'	2.03	0.58
29:B1:931:C:C2	29:B1:932:U:C5	2.92	0.58
29:B1:933:A:H3'	29:B1:934:G:C5'	2.33	0.58
29:B1:1063:G:O2'	29:B1:1064:A:P	2.61	0.58
29:B1:1196:C:H5'	29:B1:1197:A:OP2	2.04	0.58
29:B1:1294:A:O2'	29:B1:1295:G:O5'	2.21	0.58
29:B1:1394:A:H3'	29:B1:1394:A:H8	1.69	0.58
29:B1:1908:A:C5	29:B1:1909:A:C5	2.92	0.58
29:B1:1948:G:C2	29:B1:1949:G:N7	2.72	0.58
29:B1:2096:A:H2'	29:B1:2097:U:O4'	2.03	0.58
29:B1:2258:U:H3'	29:B1:2259:A:H8	1.66	0.58
29:B1:2304:C:C4	29:B1:2305:G:N2	2.72	0.58
29:B1:2651:G:C5	29:B1:2796:G:N2	2.72	0.58
29:B1:2849:C:H2'	29:B1:2849:C:O2	2.03	0.58
29:B1:3034:C:H2'	29:B1:3035:A:H5'	1.85	0.58
29:B1:3041:U:O2'	29:B1:3042:U:C5'	2.51	0.58
29:B1:3126:C:H2'	29:B1:3127:A:O4'	2.04	0.58
29:B1:3142:A:C2	74:B1:3428:OHX:N5	2.72	0.58
29:B1:3218:A:O3'	29:B1:3220:G:C8	2.57	0.58
29:B1:3318:G:N3	29:B1:3318:G:C2'	2.65	0.58
30:B2:112:G:OP2	30:B2:113:C:OP1	2.22	0.58
31:B3:54:A:H2'	31:B3:55:U:C5'	2.34	0.58
34:BC:298:PHE:HA	34:BC:299:ASP:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BG:83:LEU:CA	38:BG:84:VAL:CB	2.82	0.58
41:BJ:68:ALA:O	41:BJ:72:ALA:HB2	2.04	0.58
41:BJ:170:LYS:H	41:BJ:177:ASP:C	2.11	0.58
44:BO:78:GLY:CA	44:BO:79:ALA:CB	2.79	0.58
44:BO:96:ARG:O	44:BO:97:SER:CB	2.52	0.58
45:BP:57:PHE:H	45:BP:60:LYS:CB	2.16	0.58
47:BR:110:ALA:O	47:BR:113:LYS:N	2.36	0.58
60:Be:30:ARG:O	60:Be:32:ASN:N	2.37	0.58
1:C1:46:A:N6	1:C1:433:C:H4'	2.18	0.58
1:C1:89:G:N2	1:C1:90:C:C2	2.72	0.58
1:C1:241:U:HO2'	1:C1:242:U:H3	1.50	0.58
1:C1:252:U:O2'	1:C1:253:A:P	2.61	0.58
1:C1:288:A:C4	1:C1:289:U:H5	2.21	0.58
1:C1:363:G:C2	1:C1:382:C:N3	2.72	0.58
1:C1:417:A:C4'	1:C1:418:G:O5'	2.51	0.58
1:C1:480:G:H1	1:C1:508:U:H3	1.50	0.58
1:C1:515:A:H2'	1:C1:515:A:N3	2.16	0.58
1:C1:568:G:O2'	1:C1:569:C:H5'	2.04	0.58
1:C1:777:C:H5'	1:C1:778:G:OP2	2.04	0.58
1:C1:830:U:O2'	1:C1:831:U:H6	1.86	0.58
1:C1:920:U:OP2	1:C1:920:U:C6	2.56	0.58
1:C1:932:U:O4'	1:C1:933:A:C2	2.56	0.58
1:C1:940:A:C2	1:C1:941:A:C8	2.92	0.58
1:C1:1149:G:N3	1:C1:1150:G:N7	2.51	0.58
1:C1:1346:A:H3'	1:C1:1347:U:C6	2.38	0.58
1:C1:1614:A:H2	1:C1:1616:G:OP2	1.85	0.58
1:C1:1778:G:C6	1:C1:1779:U:C4	2.91	0.58
3:CB:239:PRO:O	3:CB:241:ASP:N	2.35	0.58
4:CC:140:GLY:CA	4:CC:182:LEU:HA	2.34	0.58
13:CL:33:THR:HA	13:CL:38:VAL:O	2.04	0.58
23:Cb:133:UNK:O	23:Cb:134:UNK:CB	2.52	0.58
29:D1:149:U:O2'	29:D1:150:A:OP1	2.22	0.58
29:D1:359:U:C2'	29:D1:360:G:H5'	2.33	0.58
29:D1:359:U:C2	29:D1:920:A:C6	2.92	0.58
29:D1:539:C:H2'	29:D1:539:C:O2	2.03	0.58
29:D1:591:G:C2	29:D1:592:A:C1'	2.86	0.58
29:D1:729:C:H2'	29:D1:730:C:O4'	2.02	0.58
29:D1:760:G:C2'	29:D1:761:A:H8	2.16	0.58
29:D1:858:A:H3'	29:D1:859:G:H8	1.69	0.58
29:D1:1051:U:O2	29:D1:1051:U:H2'	2.03	0.58
29:D1:1153:A:N7	29:D1:1154:A:C4	2.71	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1174:G:C5	29:D1:1318:A:C4	2.91	0.58
29:D1:1715:A:C8	29:D1:1716:U:O4'	2.57	0.58
29:D1:1745:C:H2'	29:D1:1746:U:H6	1.69	0.58
29:D1:1878:G:H3'	29:D1:1878:G:H8	1.68	0.58
29:D1:2096:A:H2'	29:D1:2097:U:O4'	2.04	0.58
29:D1:2273:G:H1'	29:D1:2274:U:H5	1.68	0.58
29:D1:2382:G:H2'	29:D1:2383:C:O4'	2.03	0.58
29:D1:2556:C:O2	29:D1:2556:C:C2'	2.52	0.58
29:D1:2765:C:O3'	61:Df:39:GLY:HA3	2.04	0.58
29:D1:3035:A:C6	29:D1:3036:G:N7	2.72	0.58
29:D1:3063:C:C2	29:D1:3064:U:C5	2.92	0.58
29:D1:3328:G:N2	29:D1:3329:U:C2	2.71	0.58
30:D2:35:C:H5'	30:D2:35:C:H6	1.66	0.58
33:DB:82:VAL:O	33:DB:83:HIS:C	2.46	0.58
35:DD:191:LYS:O	35:DD:192:GLY:C	2.47	0.58
38:DG:160:ARG:O	38:DG:162:PRO:N	2.37	0.58
40:DI:69:ARG:O	40:DI:71:VAL:N	2.36	0.58
42:DK:90:GLN:CB	42:DK:169:ALA:HB3	2.33	0.58
73:DM:17:GLU:C	73:DM:19:LEU:N	2.56	0.58
46:DQ:52:LEU:H	46:DQ:54:HIS:N	2.02	0.58
53:DX:75:ARG:C	53:DX:77:LYS:H	2.11	0.58
56:Da:32:ALA:O	56:Da:33:VAL:C	2.46	0.58
1:A1:45:U:H5'	1:A1:45:U:C6	2.39	0.58
1:A1:62:A:H3'	1:A1:62:A:P	2.43	0.58
1:A1:82:U:H5'	1:A1:83:G:OP2	2.04	0.58
1:A1:324:U:H5'	1:A1:324:U:H6	1.69	0.58
1:A1:361:C:C2	1:A1:384:G:N2	2.71	0.58
1:A1:529:A:C8	1:A1:529:A:OP2	2.57	0.58
1:A1:776:G:N1	1:A1:785:U:N3	2.52	0.58
1:A1:984:G:H1	1:A1:1017:U:H3	1.51	0.58
1:A1:1137:A:N3	1:A1:1138:A:C8	2.72	0.58
1:A1:1255:G:O3'	1:A1:1257:U:OP1	2.21	0.58
1:A1:1291:G:N2	1:A1:1324:G:H22	2.02	0.58
1:A1:1305:U:OP2	1:A1:1306:C:N4	2.36	0.58
1:A1:1778:G:N1	1:A1:1779:U:C5	2.71	0.58
2:AA:84:ARG:C	2:AA:86:VAL:H	2.12	0.58
5:AD:146:THR:HA	5:AD:158:GLN:O	2.04	0.58
6:AE:135:ALA:CB	6:AE:140:ILE:HA	2.33	0.58
13:AL:124:GLY:C	13:AL:126:ARG:H	2.10	0.58
14:AM:62:ALA:C	14:AM:64:HIS:N	2.55	0.58
20:AS:38:ILE:N	74:AS:101:OHX:N6	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:141:C:H2'	29:B1:142:C:H6	1.68	0.58
29:B1:495:G:O2'	29:B1:496:C:H5'	2.03	0.58
29:B1:651:G:C6	29:B1:652:G:C6	2.92	0.58
29:B1:733:G:H3'	29:B1:733:G:N3	2.19	0.58
29:B1:882:A:C2	29:B1:885:U:N1	2.71	0.58
29:B1:1347:U:H3'	29:B1:1348:U:C5	2.39	0.58
29:B1:2150:G:C2'	29:B1:2151:C:C5'	2.80	0.58
29:B1:2204:C:H2'	29:B1:2205:U:H5"	1.86	0.58
29:B1:2222:A:H61	29:B1:2783:U:H5'	1.69	0.58
29:B1:2764:C:OP2	29:B1:2764:C:C6	2.56	0.58
29:B1:2876:C:O2'	29:B1:2877:G:H5'	2.04	0.58
29:B1:3217:C:C1'	29:B1:3220:G:O2'	2.51	0.58
29:B1:3279:A:C8	29:B1:3280:U:C5	2.92	0.58
29:B1:3305:A:C5	29:B1:3306:U:N3	2.71	0.58
29:B1:3323:A:C5'	56:Ba:13:THR:O	2.51	0.58
29:B1:3333:G:N1	29:B1:3370:A:C4'	2.67	0.58
30:B2:2:G:H2'	30:B2:2:G:N3	2.19	0.58
31:B3:79:A:H2'	31:B3:80:A:C8	2.38	0.58
36:BE:194:LEU:C	36:BE:196:ARG:N	2.61	0.58
37:BF:40:LEU:HA	37:BF:85:ILE:HA	1.84	0.58
38:BG:222:HIS:CB	38:BG:228:SER:H	2.16	0.58
39:BH:248:LYS:O	39:BH:250:ALA:N	2.36	0.58
42:BK:91:LEU:O	42:BK:92:ARG:C	2.46	0.58
57:Bb:61:LYS:C	57:Bb:63:THR:H	2.12	0.58
1:C1:246:G:C5	1:C1:247:A:C2	2.92	0.58
1:C1:545:A:H61	1:C1:593:U:C2'	2.17	0.58
1:C1:638:U:H3'	1:C1:639:U:C5'	2.29	0.58
1:C1:825:U:C5	1:C1:847:A:N6	2.72	0.58
1:C1:829:A:O2'	1:C1:830:U:P	2.62	0.58
1:C1:1044:U:O2	1:C1:1044:U:C2'	2.52	0.58
1:C1:1162:C:O2'	1:C1:1163:A:H5'	2.02	0.58
1:C1:1209:C:H2'	1:C1:1210:C:C6	2.38	0.58
1:C1:1249:U:H2'	1:C1:1250:U:H5'	1.85	0.58
1:C1:1294:G:H4'	2:CA:109:ASN:CB	2.34	0.58
1:C1:1375:A:C2'	1:C1:1376:C:C6	2.84	0.58
1:C1:1419:G:H2'	1:C1:1420:C:O4'	2.03	0.58
10:CI:20:VAL:O	10:CI:24:LYS:C	2.46	0.58
13:CL:98:TYR:O	13:CL:99:HIS:CB	2.52	0.58
23:Cb:82:UNK:CB	23:Cb:86:UNK:CB	2.82	0.58
29:D1:10:C:C5	31:D3:149:A:C2	2.92	0.58
29:D1:65:A:C8	29:D1:110:G:O6	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:149:U:C2	44:DO:55:ALA:HA	2.39	0.58
29:D1:157:A:H2'	29:D1:158:G:N7	2.18	0.58
29:D1:163:C:H5'	29:D1:164:A:OP2	2.04	0.58
29:D1:317:A:C2	29:D1:318:A:C5	2.92	0.58
29:D1:331:G:O2'	29:D1:332:C:H5"	2.03	0.58
29:D1:370:U:C5	29:D1:371:G:C4	2.92	0.58
29:D1:595:G:O6	29:D1:609:G:N3	2.36	0.58
29:D1:694:C:O2	29:D1:694:C:C2'	2.51	0.58
29:D1:719:U:O4'	29:D1:719:U:O2	2.22	0.58
29:D1:769:G:C4	29:D1:770:G:C8	2.91	0.58
29:D1:797:U:O2'	29:D1:798:G:H5'	2.02	0.58
29:D1:1099:A:N6	29:D1:1100:U:C4	2.72	0.58
29:D1:1394:A:H3'	29:D1:1394:A:H8	1.69	0.58
29:D1:2102:U:H2'	29:D1:2103:U:H6	1.66	0.58
29:D1:2199:G:C6	29:D1:2200:U:C4	2.91	0.58
29:D1:2435:G:O2'	29:D1:2436:U:P	2.62	0.58
29:D1:2503:G:C5	29:D1:2504:U:C4	2.90	0.58
29:D1:2704:A:C4	29:D1:2706:G:N7	2.72	0.58
29:D1:2732:G:C6	29:D1:2733:A:C5	2.92	0.58
29:D1:2762:A:C4	29:D1:2763:U:C6	2.92	0.58
29:D1:2949:U:C5	29:D1:2950:G:O6	2.57	0.58
29:D1:3318:G:N3	29:D1:3318:G:C2'	2.65	0.58
30:D2:64:A:C6	30:D2:111:U:C4	2.91	0.58
31:D3:65:A:N6	31:D3:66:A:C6	2.72	0.58
31:D3:69:U:H2'	31:D3:70:G:C2'	2.33	0.58
31:D3:69:U:H3'	31:D3:70:G:H4'	1.80	0.58
31:D3:80:A:H2'	31:D3:81:U:N1	2.19	0.58
38:DG:85:PHE:O	38:DG:86:VAL:C	2.46	0.58
41:DJ:37:GLY:HA3	41:DJ:86:HIS:N	2.18	0.58
72:DL:76:SER:O	72:DL:77:ALA:O	2.22	0.58
44:DO:36:ILE:HA	44:DO:64:VAL:HA	1.86	0.58
1:A1:83:G:O2'	1:A1:84:A:H5'	2.04	0.58
1:A1:112:A:N6	1:A1:303:U:O2	2.36	0.58
1:A1:269:G:C4	1:A1:270:C:C5	2.91	0.58
1:A1:690:G:H2'	1:A1:691:C:C5'	2.33	0.58
1:A1:1026:A:C2	1:A1:1792:G:C4	2.92	0.58
1:A1:1112:G:OP2	1:A1:1113:A:H2'	2.04	0.58
1:A1:1115:U:H2'	1:A1:1115:U:O2	2.03	0.58
1:A1:1199:G:N1	1:A1:1201:G:OP1	2.37	0.58
1:A1:1263:G:C4	1:A1:1264:G:C8	2.91	0.58
1:A1:1604:U:H5"	1:A1:1605:G:OP2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1642:G:H2'	1:A1:1781:A:O2'	2.04	0.58
1:A1:1780:G:C6	1:A1:1781:A:C6	2.92	0.58
1:A1:1791:A:H5'	1:A1:1791:A:C8	2.38	0.58
29:B1:66:A:C2	29:B1:77:A:O3'	2.57	0.58
29:B1:72:C:C5	29:B1:73:C:C2	2.92	0.58
29:B1:80:G:C2	29:B1:81:C:C6	2.92	0.58
29:B1:312:C:O2'	29:B1:313:A:H5'	2.03	0.58
29:B1:593:C:O2	29:B1:594:U:H4'	2.02	0.58
29:B1:625:G:C8	29:B1:625:G:H5'	2.36	0.58
29:B1:659:G:N1	29:B1:1432:C:C2	2.70	0.58
29:B1:1063:G:C4	29:B1:1064:A:H4'	2.39	0.58
29:B1:1528:G:C6	29:B1:1833:G:O6	2.57	0.58
29:B1:1753:G:C2	29:B1:1754:G:C8	2.92	0.58
29:B1:2226:U:O2'	29:B1:2227:C:H6	1.86	0.58
29:B1:2269:U:O2	29:B1:2269:U:C2'	2.51	0.58
29:B1:2677:G:H3'	29:B1:2677:G:N3	2.19	0.58
29:B1:2728:G:N2	29:B1:2729:U:C5	2.72	0.58
29:B1:2856:G:H2'	29:B1:2857:C:C6	2.39	0.58
29:B1:3149:G:C5	29:B1:3150:A:C8	2.92	0.58
29:B1:3149:G:N3	29:B1:3150:A:C1'	2.66	0.58
29:B1:3308:C:N4	29:B1:3309:G:C5	2.72	0.58
30:B2:57:G:C8	30:B2:58:C:C5	2.91	0.58
30:B2:59:U:C2	30:B2:60:G:C8	2.92	0.58
33:BB:236:GLY:O	33:BB:237:LEU:C	2.47	0.58
38:BG:159:GLN:O	38:BG:160:ARG:O	2.22	0.58
41:BJ:7:ARG:C	41:BJ:9:TYR:N	2.61	0.58
41:BJ:53:VAL:H	41:BJ:164:LYS:CB	2.17	0.58
45:BP:94:ARG:O	45:BP:95:GLY:C	2.46	0.58
46:BQ:33:ALA:C	46:BQ:35:ALA:N	2.62	0.58
50:BU:94:TYR:O	50:BU:95:PHE:CB	2.52	0.58
53:BX:34:PRO:HA	53:BX:47:ALA:HB2	1.85	0.58
57:Bb:22:SER:C	57:Bb:24:ARG:N	2.61	0.58
1:C1:53:G:C5	1:C1:54:C:C5	2.92	0.58
1:C1:243:G:H5"	1:C1:243:G:C8	2.38	0.58
1:C1:310:C:C6	1:C1:310:C:H3'	2.39	0.58
1:C1:478:A:C2	1:C1:479:C:C4	2.92	0.58
1:C1:524:U:C2'	1:C1:527:A:C2	2.83	0.58
1:C1:744:U:C4	1:C1:745:U:C5	2.92	0.58
1:C1:830:U:C2	1:C1:831:U:C5	2.92	0.58
1:C1:972:G:N2	29:D1:846:A:N6	2.48	0.58
1:C1:1146:G:C6	1:C1:1147:A:C5	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1348:A:H3'	1:C1:1349:G:C5'	2.33	0.58
1:C1:1522:U:C2'	1:C1:1523:G:O5'	2.52	0.58
3:CB:165:VAL:HA	3:CB:202:GLY:HA3	1.86	0.58
29:D1:46:U:O5'	29:D1:46:U:H6	1.87	0.58
29:D1:60:A:N7	29:D1:327:A:C2	2.71	0.58
29:D1:83:U:H2'	29:D1:84:U:H5'	1.85	0.58
29:D1:88:A:C2	29:D1:89:A:H1'	2.38	0.58
29:D1:282:G:C2	29:D1:286:U:H4'	2.38	0.58
29:D1:428:A:H2'	29:D1:429:U:O5'	2.04	0.58
29:D1:547:G:C3'	29:D1:548:G:H5'	2.34	0.58
29:D1:550:A:C2	29:D1:551:A:C4	2.92	0.58
29:D1:598:A:C2	29:D1:599:C:C2	2.92	0.58
29:D1:733:G:H21	29:D1:734:C:H2'	1.69	0.58
29:D1:747:A:H8	29:D1:747:A:O5'	1.86	0.58
29:D1:908:G:C8	29:D1:925:A:C2	2.92	0.58
29:D1:1021:G:H2'	29:D1:1022:U:C6	2.39	0.58
29:D1:1196:C:C2	30:D2:86:U:C6	2.92	0.58
29:D1:1220:U:OP1	29:D1:1222:G:O2'	2.20	0.58
29:D1:1252:A:H2'	29:D1:1253:U:C5'	2.33	0.58
29:D1:1390:A:N7	29:D1:1418:A:C5	2.72	0.58
29:D1:1445:U:C6	29:D1:1446:A:N7	2.72	0.58
29:D1:1655:G:H5"	29:D1:1656:A:H2'	1.86	0.58
29:D1:2376:G:O2'	29:D1:2377:G:C5'	2.52	0.58
29:D1:2482:U:H2'	29:D1:2483:G:O4'	2.04	0.58
29:D1:2582:C:H6	29:D1:2582:C:OP2	1.87	0.58
29:D1:2723:U:H2'	29:D1:2724:U:C6	2.38	0.58
29:D1:2792:A:O2'	29:D1:2793:G:H5'	2.03	0.58
29:D1:2880:U:H2'	29:D1:2881:C:C6	2.38	0.58
29:D1:3211:C:C2'	29:D1:3211:C:O2	2.46	0.58
29:D1:3217:C:H4'	29:D1:3218:A:OP2	2.03	0.58
29:D1:3221:C:C2	29:D1:3222:U:C6	2.92	0.58
29:D1:3274:A:C8	29:D1:3275:U:C2'	2.81	0.58
29:D1:3392:U:C2	29:D1:3393:U:C5	2.92	0.58
30:D2:74:C:C6	30:D2:75:G:C8	2.92	0.58
31:D3:2:A:N6	31:D3:3:A:C2	2.71	0.58
31:D3:80:A:H2'	31:D3:81:U:C6	2.39	0.58
34:DC:165:GLN:O	34:DC:166:ILE:C	2.46	0.58
35:DD:193:LYS:C	35:DD:195:ARG:H	2.12	0.58
36:DE:30:TYR:C	36:DE:32:GLN:N	2.61	0.58
36:DE:49:TYR:CA	36:DE:50:ARG:CB	2.81	0.58
36:DE:113:LEU:N	36:DE:114:GLY:HA3	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DE:188:GLU:CB	36:DE:189:GLU:HA	2.34	0.58
40:DI:137:SER:O	40:DI:138:THR:CB	2.52	0.58
73:DM:37:GLN:HA	73:DM:40:GLU:CB	2.33	0.58
45:DP:47:PHE:O	45:DP:48:PHE:C	2.47	0.58
45:DP:63:ALA:HB2	45:DP:69:GLY:HA3	1.85	0.58
56:Da:19:ARG:O	56:Da:21:HIS:N	2.37	0.58
56:Da:60:TRP:O	56:Da:62:ARG:N	2.37	0.58
1:A1:243:G:H5"	1:A1:243:G:C8	2.39	0.57
1:A1:294:C:H2'	1:A1:294:C:O2	2.04	0.57
1:A1:365:G:C2'	1:A1:366:A:O5'	2.51	0.57
1:A1:417:A:O5'	1:A1:417:A:C8	2.55	0.57
1:A1:624:G:H8	1:A1:624:G:OP1	1.87	0.57
1:A1:629:U:O2	1:A1:971:A:C2	2.57	0.57
1:A1:640:U:H3'	1:A1:641:G:C8	2.39	0.57
1:A1:690:G:C2'	1:A1:691:C:H5'	2.33	0.57
1:A1:971:A:C8	1:A1:972:G:N7	2.72	0.57
1:A1:1028:C:O2'	1:A1:1029:U:OP2	2.19	0.57
1:A1:1138:A:H2'	1:A1:1139:A:C8	2.39	0.57
1:A1:1150:G:O2'	1:A1:1766:A:N1	2.37	0.57
1:A1:1170:G:N2	1:A1:1571:C:H4'	2.19	0.57
1:A1:1177:C:H2'	1:A1:1178:G:O4'	2.04	0.57
1:A1:1235:C:H2'	1:A1:1236:A:C8	2.37	0.57
1:A1:1367:G:H2'	1:A1:1367:G:N3	2.18	0.57
1:A1:1413:U:H4'	1:A1:1414:U:H5"	1.86	0.57
1:A1:1472:C:H5'	1:A1:1474:G:H1'	1.86	0.57
1:A1:1632:C:O2'	1:A1:1633:A:O4'	2.21	0.57
1:A1:1636:C:C4'	1:A1:1637:C:OP2	2.51	0.57
1:A1:1645:G:C2'	1:A1:1646:C:O5'	2.51	0.57
1:A1:1734:U:H2'	1:A1:1735:U:H6	1.69	0.57
2:AA:130:ALA:O	2:AA:132:ALA:N	2.37	0.57
3:AB:237:VAL:O	3:AB:238:SER:C	2.46	0.57
5:AD:93:LEU:C	5:AD:95:ASN:H	2.12	0.57
22:Aa:13:UNK:O	22:Aa:14:UNK:C	2.51	0.57
29:B1:22:G:C5	29:B1:23:A:N7	2.72	0.57
29:B1:570:A:C6	29:B1:571:U:C4	2.92	0.57
29:B1:624:G:H2'	29:B1:625:G:C5'	2.34	0.57
29:B1:624:G:N2	29:B1:625:G:C8	2.72	0.57
29:B1:659:G:C6	29:B1:1432:C:C2	2.91	0.57
29:B1:789:A:C6	29:B1:790:U:O4	2.57	0.57
29:B1:869:G:H3'	29:B1:870:G:C8	2.39	0.57
29:B1:947:G:C4	29:B1:1373:A:C2	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1001:G:C8	29:B1:1041:U:H5'	2.39	0.57
29:B1:1276:U:O4	74:B1:3563:OHX:N1	2.36	0.57
29:B1:1455:U:H3'	29:B1:1456:A:C8	2.36	0.57
29:B1:1468:A:O2'	29:B1:1469:C:O5'	2.21	0.57
29:B1:1601:U:H5	29:B1:1604:G:O6	1.87	0.57
29:B1:1607:U:C1'	29:B1:1608:C:OP1	2.47	0.57
29:B1:1786:G:H2'	29:B1:1787:A:H8	1.67	0.57
29:B1:1907:C:H2'	29:B1:1908:A:C5'	2.34	0.57
29:B1:1940:G:H2'	29:B1:1941:C:C1'	2.33	0.57
29:B1:2196:C:O2'	29:B1:2271:A:O4'	2.22	0.57
29:B1:2202:C:H5"	29:B1:2203:U:OP2	2.04	0.57
29:B1:2299:A:C5	29:B1:2300:G:N7	2.72	0.57
29:B1:2308:C:C6	29:B1:2309:A:C8	2.92	0.57
29:B1:2704:A:C2	29:B1:2706:G:C8	2.92	0.57
29:B1:2808:A:H4'	29:B1:2809:C:C5'	2.34	0.57
29:B1:3165:A:C2	29:B1:3286:G:C4	2.91	0.57
29:B1:3376:A:OP2	29:B1:3376:A:H4'	2.03	0.57
30:B2:27:A:C2	30:B2:54:U:H5	2.22	0.57
31:B3:37:A:N6	31:B3:104:A:C4	2.72	0.57
31:B3:127:U:O2	31:B3:127:U:H2'	2.02	0.57
33:BB:216:HIS:O	33:BB:217:GLN:CB	2.52	0.57
34:BC:43:LEU:O	34:BC:44:THR:CB	2.52	0.57
43:BN:89:ALA:O	43:BN:92:GLU:N	2.38	0.57
43:BN:95:ALA:O	43:BN:97:SER:N	2.37	0.57
47:BR:145:ASN:CB	47:BR:147:ARG:H	2.16	0.57
54:BY:72:VAL:H	54:BY:114:GLY:HA3	1.69	0.57
54:BY:97:GLU:O	54:BY:98:THR:CB	2.52	0.57
54:BY:139:ARG:HA	54:BY:143:GLY:H	1.67	0.57
57:Bb:66:LEU:CB	57:Bb:72:LYS:H	2.17	0.57
26:Bj:12:UNK:C	26:Bj:14:UNK:N	2.62	0.57
1:C1:13:C:H5"	3:CB:162:CYS:HA	1.85	0.57
1:C1:41:A:H2'	1:C1:438:A:H62	1.68	0.57
1:C1:204:G:N3	1:C1:204:G:H2'	2.18	0.57
1:C1:262:U:C4	1:C1:263:C:C4	2.91	0.57
1:C1:379:U:C2	1:C1:380:U:H5	2.22	0.57
1:C1:434:G:N2	1:C1:437:A:H2	2.02	0.57
1:C1:761:G:O5'	1:C1:761:G:H8	1.87	0.57
1:C1:802:G:C5	1:C1:803:A:N1	2.72	0.57
1:C1:1364:G:H2'	1:C1:1365:C:C5'	2.34	0.57
1:C1:1394:G:OP1	21:CT:282:SER:N	2.20	0.57
1:C1:1432:U:OP2	1:C1:1432:U:H4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1497:U:C5	1:C1:1498:G:N7	2.72	0.57
1:C1:1608:U:H2'	1:C1:1609:U:C6	2.39	0.57
1:C1:1685:G:N3	1:C1:1719:A:C2	2.72	0.57
10:CI:67:ALA:HA	10:CI:68:PRO:O	2.03	0.57
29:D1:28:C:O2	29:D1:28:C:H2'	2.04	0.57
29:D1:286:U:C2	29:D1:287:G:N7	2.72	0.57
29:D1:306:A:H2'	29:D1:306:A:N3	2.19	0.57
29:D1:352:A:C1'	29:D1:354:U:C6	2.87	0.57
29:D1:397:A:C4	29:D1:399:A:N7	2.72	0.57
29:D1:509:U:H2'	29:D1:510:G:C5'	2.33	0.57
29:D1:510:G:H2'	29:D1:511:G:O5'	2.03	0.57
29:D1:1057:A:C6	29:D1:1058:U:C5	2.92	0.57
29:D1:1150:A:C8	29:D1:1310:G:H5"	2.39	0.57
29:D1:1248:C:C5	29:D1:1249:G:H8	2.22	0.57
29:D1:1691:U:O2'	29:D1:1692:U:O5'	2.15	0.57
29:D1:2211:U:H2'	29:D1:2212:C:O4'	2.05	0.57
29:D1:2665:U:C2	29:D1:2706:G:C2	2.91	0.57
29:D1:2839:G:C6	29:D1:2850:G:C2	2.91	0.57
29:D1:2847:A:C5'	29:D1:2848:G:OP2	2.47	0.57
29:D1:3058:U:O2'	29:D1:3059:G:P	2.60	0.57
29:D1:3141:A:H5'	29:D1:3143:C:C2'	2.34	0.57
29:D1:3210:A:C8	29:D1:3211:C:C5	2.92	0.57
29:D1:3216:G:O2'	29:D1:3217:C:OP2	2.18	0.57
29:D1:3301:U:P	29:D1:3301:U:O4'	2.62	0.57
30:D2:75:G:H21	30:D2:105:C:N4	2.02	0.57
30:D2:82:G:C4	30:D2:99:G:C2	2.92	0.57
31:D3:103:G:H5"	31:D3:104:A:OP2	2.03	0.57
34:DC:294:GLY:CA	34:DC:295:ALA:C	2.75	0.57
37:DF:121:LEU:O	37:DF:123:PRO:N	2.37	0.57
41:DJ:184:LYS:O	41:DJ:186:GLU:N	2.37	0.57
43:DN:49:PRO:N	43:DN:50:LYS:CA	2.64	0.57
43:DN:95:ALA:C	43:DN:97:SER:H	2.12	0.57
45:DP:77:SER:C	45:DP:79:ILE:N	2.61	0.57
55:DZ:85:PHE:O	55:DZ:87:VAL:N	2.37	0.57
1:A1:108:A:H3'	1:A1:109:G:H8	1.67	0.57
1:A1:184:C:C5	1:A1:202:A:C2	2.92	0.57
1:A1:337:G:H4'	1:A1:338:C:H5"	1.84	0.57
1:A1:877:G:H5'	1:A1:936:G:N2	2.19	0.57
1:A1:943:C:H5"	1:A1:944:A:OP2	2.03	0.57
1:A1:1105:C:H2'	1:A1:1106:U:C6	2.40	0.57
1:A1:1199:G:N2	1:A1:1201:G:OP2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1376:C:O5'	1:A1:1376:C:H6	1.86	0.57
1:A1:1636:C:N4	1:A1:1638:G:C2	2.72	0.57
1:A1:1667:A:H2'	1:A1:1668:G:H8	1.63	0.57
1:A1:1767:G:O2'	1:A1:1768:G:OP2	2.20	0.57
1:A1:1780:G:H2'	1:A1:1781:A:C8	2.40	0.57
5:AD:58:LEU:O	5:AD:61:TYR:N	2.36	0.57
9:AH:57:PRO:O	9:AH:60:ALA:N	2.37	0.57
14:AM:57:ARG:O	14:AM:58:ALA:CB	2.51	0.57
29:B1:279:U:HO2'	29:B1:280:U:H5'	1.69	0.57
29:B1:509:U:H2'	29:B1:510:G:C5'	2.33	0.57
29:B1:533:A:H2'	29:B1:534:U:C5	2.38	0.57
29:B1:563:U:O4	29:B1:564:G:C8	2.57	0.57
29:B1:566:G:C2'	29:B1:567:G:H5'	2.33	0.57
29:B1:611:A:OP1	29:B1:611:A:C4'	2.47	0.57
29:B1:702:C:H2'	29:B1:703:G:O4'	2.04	0.57
29:B1:718:G:H4'	29:B1:719:U:H5"	1.85	0.57
29:B1:725:G:N1	29:B1:744:A:N6	2.52	0.57
29:B1:743:C:C6	29:B1:743:C:C3'	2.87	0.57
29:B1:747:A:C2'	29:B1:748:U:OP1	2.52	0.57
29:B1:944:C:H2'	29:B1:945:C:H6	1.69	0.57
29:B1:1158:A:C3'	29:B1:1159:A:H5"	2.34	0.57
29:B1:1209:G:C8	29:B1:1210:U:C5	2.92	0.57
29:B1:1393:A:H2	29:B1:1394:A:N9	2.03	0.57
29:B1:1454:A:H5"	29:B1:1878:G:N1	2.18	0.57
29:B1:1492:G:H3'	29:B1:1493:G:H21	1.68	0.57
29:B1:1514:G:O6	29:B1:1841:A:C8	2.57	0.57
29:B1:1656:A:C4	29:B1:1657:C:N4	2.71	0.57
29:B1:1740:U:C3'	29:B1:1741:A:H5'	2.33	0.57
29:B1:1879:A:H3'	29:B1:1879:A:P	2.44	0.57
29:B1:1884:A:C6	29:B1:1885:U:N3	2.62	0.57
29:B1:2122:G:O2'	29:B1:2123:G:H5'	2.04	0.57
29:B1:2285:C:C5	29:B1:2286:U:C4	2.91	0.57
29:B1:2288:G:N3	29:B1:2289:U:C5	2.72	0.57
29:B1:2374:C:N4	29:B1:2941:A:C4	2.71	0.57
29:B1:2687:G:OP2	74:B1:3429:OHX:N4	2.38	0.57
29:B1:2762:A:C4	29:B1:2763:U:C6	2.91	0.57
29:B1:2816:G:H4'	29:B1:2817:A:H5"	1.85	0.57
29:B1:2836:C:O2	29:B1:2837:A:C8	2.57	0.57
29:B1:2933:A:OP1	29:B1:3015:G:H4'	2.03	0.57
29:B1:3006:A:H8	29:B1:3007:U:C6	2.22	0.57
29:B1:3204:C:H5'	43:BN:88:ALA:CB	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3228:C:N1	29:B1:3229:G:N7	2.51	0.57
29:B1:3299:A:C2	29:B1:3300:U:C4	2.91	0.57
29:B1:3315:G:O2'	29:B1:3316:A:H8	1.85	0.57
29:B1:3341:U:N3	29:B1:3362:A:C2	2.72	0.57
29:B1:3367:C:HO2'	29:B1:3368:U:H5"	1.68	0.57
30:B2:9:C:OP2	30:B2:9:C:H6	1.87	0.57
30:B2:14:U:O2'	30:B2:15:C:C4'	2.52	0.57
30:B2:30:G:H2'	30:B2:31:U:C5'	2.35	0.57
36:BE:110:LEU:HA	36:BE:111:GLN:CB	2.34	0.57
37:BF:162:SER:C	37:BF:165:LEU:H	2.12	0.57
41:BJ:207:GLU:O	41:BJ:208:ASN:C	2.46	0.57
42:BK:79:ILE:C	42:BK:81:GLU:H	2.12	0.57
54:BY:42:ARG:O	54:BY:43:ILE:O	2.22	0.57
54:BY:74:ASN:C	54:BY:76:ASP:H	2.12	0.57
70:Bq:13:UNK:O	70:Bq:17:UNK:N	2.34	0.57
1:C1:26:A:H3'	1:C1:26:A:P	2.43	0.57
1:C1:50:C:C2	1:C1:424:C:C5	2.91	0.57
1:C1:61:A:OP1	1:C1:452:A:O2'	2.22	0.57
1:C1:180:A:C5	1:C1:181:A:C2	2.92	0.57
1:C1:333:A:C2	1:C1:334:G:C2	2.93	0.57
1:C1:446:A:C5	1:C1:447:U:H5	2.21	0.57
1:C1:463:U:H2'	1:C1:464:A:O4'	2.04	0.57
1:C1:717:C:H1'	1:C1:718:U:O5'	2.04	0.57
1:C1:818:C:H2'	1:C1:819:G:C8	2.39	0.57
1:C1:1025:A:H2'	1:C1:1027:A:C5'	2.33	0.57
1:C1:1050:G:C6	1:C1:1051:G:C4	2.92	0.57
1:C1:1334:U:H2'	1:C1:1335:U:C1'	2.34	0.57
1:C1:1348:A:OP1	15:CN:12:GLN:O	2.21	0.57
1:C1:1351:G:C5	1:C1:1352:G:C8	2.91	0.57
1:C1:1370:U:N3	1:C1:1371:A:C8	2.72	0.57
1:C1:1422:A:O2'	1:C1:1423:U:H5'	2.03	0.57
1:C1:1515:A:C3'	1:C1:1516:A:H5"	2.34	0.57
1:C1:1583:A:H1'	1:C1:1585:U:N1	2.20	0.57
1:C1:1616:G:H21	1:C1:1618:C:N4	1.92	0.57
1:C1:1712:A:H2'	1:C1:1713:G:H8	1.67	0.57
1:C1:1713:G:N2	1:C1:1714:A:C8	2.71	0.57
1:C1:1781:A:C2	1:C1:1782:A:C2	2.92	0.57
2:CA:25:GLY:O	2:CA:26:ALA:HB3	2.04	0.57
2:CA:54:TRP:O	2:CA:55:GLU:C	2.47	0.57
4:CC:93:ASP:O	4:CC:94:ARG:C	2.46	0.57
5:CD:153:GLY:HA3	5:CD:154:ALA:CB	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CE:96:VAL:O	6:CE:99:LEU:C	2.47	0.57
29:D1:121:A:H5'	29:D1:150:A:C2	2.39	0.57
29:D1:287:G:C2'	29:D1:288:C:O5'	2.52	0.57
29:D1:379:C:H6	29:D1:379:C:C5'	2.13	0.57
29:D1:536:U:C1'	29:D1:537:A:OP2	2.51	0.57
29:D1:649:A:C2	29:D1:650:C:C4	2.92	0.57
29:D1:964:G:C5	29:D1:965:A:N7	2.71	0.57
29:D1:1046:A:C8	29:D1:1049:C:N4	2.72	0.57
29:D1:1066:G:H2'	29:D1:1067:U:C6	2.39	0.57
29:D1:1131:G:C2	29:D1:2373:A:C4	2.92	0.57
29:D1:1148:G:C2	29:D1:1156:C:C2	2.93	0.57
29:D1:1174:G:N1	29:D1:1318:A:C2	2.72	0.57
29:D1:1235:U:C4	29:D1:1237:G:H4'	2.39	0.57
29:D1:1366:A:N3	29:D1:1367:G:C8	2.71	0.57
29:D1:1448:U:H5	29:D1:2355:G:N3	2.02	0.57
29:D1:1461:A:C4	29:D1:1462:A:N7	2.70	0.57
29:D1:1710:C:H6	29:D1:1710:C:H5"	1.69	0.57
29:D1:1744:G:O2'	29:D1:1745:C:H5'	2.04	0.57
29:D1:1779:C:OP2	29:D1:1780:G:H8	1.87	0.57
29:D1:1845:G:H1	29:D1:1849:C:C2'	2.16	0.57
29:D1:2128:C:N4	29:D1:2129:U:C4	2.72	0.57
29:D1:2128:C:O5'	29:D1:2128:C:H6	1.88	0.57
29:D1:2290:C:C4	29:D1:2303:A:N1	2.72	0.57
29:D1:2383:C:H2'	29:D1:2384:A:C8	2.36	0.57
29:D1:2546:C:N4	29:D1:2547:A:N6	2.52	0.57
29:D1:2618:G:C4'	29:D1:2619:G:OP2	2.51	0.57
29:D1:2727:A:H2	29:D1:2729:U:H5	1.50	0.57
29:D1:2830:G:C4	29:D1:2831:G:C8	2.91	0.57
29:D1:2854:U:H4'	41:DJ:160:PRO:N	2.20	0.57
29:D1:2984:C:O2'	29:D1:2985:C:H5'	2.04	0.57
29:D1:3296:A:C2	29:D1:3297:U:C1'	2.87	0.57
29:D1:3315:G:O2'	29:D1:3316:A:H8	1.82	0.57
29:D1:3315:G:O5'	29:D1:3316:A:OP1	2.21	0.57
29:D1:3387:U:N3	29:D1:3388:C:N4	2.52	0.57
30:D2:13:A:C5'	30:D2:112:G:H1'	2.24	0.57
31:D3:34:U:C2	31:D3:34:U:C3'	2.83	0.57
35:DD:153:SER:O	35:DD:155:ASP:N	2.37	0.57
35:DD:234:ASN:C	35:DD:236:LEU:H	2.11	0.57
37:DF:149:ILE:H	37:DF:151:LYS:H	1.50	0.57
40:DI:63:LYS:HA	40:DI:66:ALA:CB	2.27	0.57
41:DJ:17:TYR:O	41:DJ:19:LYS:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DN:21:VAL:O	43:DN:34:ALA:HB2	2.05	0.57
47:DR:116:LYS:O	47:DR:117:ALA:C	2.47	0.57
51:DV:43:ARG:O	51:DV:44:LYS:C	2.46	0.57
54:DY:73:LEU:HA	54:DY:116:GLY:CA	2.34	0.57
56:Da:16:LEU:O	56:Da:19:ARG:N	2.37	0.57
1:A1:48:G:C5	1:A1:432:G:N2	2.73	0.57
1:A1:58:U:O2'	1:A1:451:A:N3	2.37	0.57
1:A1:73:U:H2'	1:A1:74:U:O4'	2.03	0.57
1:A1:225:A:O2'	1:A1:226:A:H8	1.85	0.57
1:A1:653:C:C5	1:A1:654:C:C5	2.91	0.57
1:A1:774:A:C5	1:A1:787:G:N2	2.73	0.57
1:A1:929:A:H1'	9:AH:123:SER:HA	1.87	0.57
1:A1:1121:C:C2	1:A1:1127:G:N1	2.72	0.57
1:A1:1146:G:H8	1:A1:1635:A:H2	1.52	0.57
1:A1:1364:G:H2'	1:A1:1365:C:C5'	2.34	0.57
3:AB:215:PHE:C	3:AB:217:ALA:N	2.57	0.57
16:AO:111:MET:CB	16:AO:116:ALA:HB2	2.34	0.57
29:B1:339:C:C2'	29:B1:340:C:H5"	2.34	0.57
29:B1:360:G:C5	29:B1:361:A:N6	2.72	0.57
29:B1:365:A:C2	29:B1:366:A:N3	2.73	0.57
29:B1:373:A:C6	29:B1:375:A:C6	2.91	0.57
29:B1:595:G:O6	29:B1:609:G:N3	2.37	0.57
29:B1:645:A:C5	29:B1:649:A:C5	2.93	0.57
29:B1:773:G:H21	29:B1:774:G:H1'	1.70	0.57
29:B1:947:G:H2'	29:B1:948:C:C6	2.34	0.57
29:B1:965:A:C5	29:B1:966:U:C4	2.93	0.57
29:B1:1394:A:H2'	29:B1:1395:G:O4'	2.03	0.57
29:B1:1621:A:H2'	29:B1:1622:U:H6	1.63	0.57
29:B1:1779:C:C4'	29:B1:1780:G:OP1	2.52	0.57
29:B1:2119:A:C5	29:B1:2120:A:N1	2.73	0.57
29:B1:2435:G:O2'	29:B1:2436:U:OP2	2.22	0.57
29:B1:2677:G:H2'	29:B1:2678:A:O5'	2.05	0.57
29:B1:2715:A:OP1	29:B1:2715:A:H2'	2.04	0.57
29:B1:2999:U:H2'	29:B1:3000:A:H8	1.70	0.57
29:B1:3194:C:H3'	29:B1:3194:C:C6	2.39	0.57
29:B1:3238:G:O2'	29:B1:3239:G:H5'	2.05	0.57
29:B1:3320:A:C2'	29:B1:3321:C:C6	2.74	0.57
29:B1:3327:G:N3	29:B1:3328:G:N7	2.50	0.57
29:B1:3376:A:C5'	29:B1:3377:G:H5"	2.34	0.57
30:B2:12:U:N3	30:B2:70:U:OP1	2.37	0.57
30:B2:69:C:OP2	74:B2:209:OHX:N5	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:76:C:C2'	53:BX:76:LEU:CB	2.80	0.57
34:BC:51:ALA:HB2	34:BC:79:VAL:HA	1.85	0.57
35:BD:63:GLU:O	35:BD:76:ARG:N	2.37	0.57
35:BD:162:THR:HA	35:BD:218:ALA:HB1	1.85	0.57
41:BJ:135:ILE:O	41:BJ:137:SER:N	2.38	0.57
43:BN:124:ARG:O	43:BN:126:GLN:N	2.37	0.57
53:BX:69:LYS:O	53:BX:83:ASP:N	2.35	0.57
63:Bh:40:UNK:O	63:Bh:43:UNK:CB	2.51	0.57
1:C1:61:A:C4'	1:C1:62:A:OP2	2.52	0.57
1:C1:104:A:C6	1:C1:106:U:C2	2.92	0.57
1:C1:142:G:N2	1:C1:174:U:H1'	2.18	0.57
1:C1:269:G:C6	1:C1:270:C:C4	2.92	0.57
1:C1:295:A:C4'	1:C1:296:U:OP1	2.52	0.57
1:C1:387:A:H2'	1:C1:402:C:C6	2.39	0.57
1:C1:404:G:C4	1:C1:405:C:C5	2.91	0.57
1:C1:406:U:OP2	1:C1:406:U:H6	1.87	0.57
1:C1:478:A:C2	1:C1:479:C:N3	2.72	0.57
1:C1:660:G:H22	1:C1:683:C:H41	1.51	0.57
1:C1:696:C:H5'	1:C1:697:C:OP1	2.04	0.57
1:C1:768:C:H2'	1:C1:769:A:O4'	2.05	0.57
1:C1:848:C:H2'	1:C1:849:C:C6	2.39	0.57
1:C1:887:A:C1'	9:CH:122:PRO:CB	2.72	0.57
1:C1:1538:U:H5	1:C1:1540:G:C8	2.22	0.57
1:C1:1671:A:C4	1:C1:1731:A:C2	2.92	0.57
1:C1:1754:A:O2'	1:C1:1755:A:P	2.62	0.57
4:CC:23:GLU:O	4:CC:26:THR:N	2.30	0.57
8:CG:145:THR:N	8:CG:146:ALA:HA	2.17	0.57
29:D1:67:A:C2	29:D1:317:A:N7	2.72	0.57
29:D1:339:C:C2'	29:D1:340:C:H5"	2.34	0.57
29:D1:436:A:C2	29:D1:624:G:C2	2.91	0.57
29:D1:749:C:C2	29:D1:750:G:N7	2.72	0.57
29:D1:807:A:H3'	29:D1:807:A:C8	2.39	0.57
29:D1:844:G:C6	29:D1:845:G:C6	2.92	0.57
29:D1:891:G:C5	29:D1:892:U:C5	2.93	0.57
29:D1:989:A:O2'	29:D1:990:U:H5'	2.04	0.57
29:D1:1153:A:N7	29:D1:1154:A:C2	2.72	0.57
29:D1:1245:A:H2'	29:D1:1272:C:OP1	2.03	0.57
29:D1:1447:G:O2'	29:D1:1448:U:OP2	2.22	0.57
29:D1:1540:U:O2	29:D1:1540:U:C2'	2.52	0.57
29:D1:1552:G:H5"	29:D1:1553:U:OP2	2.04	0.57
29:D1:1625:A:N7	29:D1:1626:U:N1	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1680:G:C2	29:D1:1681:U:C6	2.92	0.57
29:D1:2210:G:C6	29:D1:2211:U:C4	2.92	0.57
29:D1:2394:G:H21	34:DC:258:ALA:HA	1.69	0.57
29:D1:2523:A:H1'	29:D1:2524:A:O5'	2.02	0.57
29:D1:2651:G:C2	29:D1:2796:G:C2	2.92	0.57
29:D1:2934:A:C5'	29:D1:2935:U:OP2	2.52	0.57
29:D1:3105:U:C5	29:D1:3106:A:N7	2.72	0.57
29:D1:3172:A:O4'	29:D1:3172:A:OP1	2.20	0.57
29:D1:3225:C:H2'	29:D1:3226:A:C8	2.39	0.57
29:D1:3364:C:C2'	29:D1:3365:U:H5'	2.33	0.57
31:D3:78:G:C6	31:D3:79:A:C6	2.91	0.57
31:D3:115:C:H2'	31:D3:116:G:O5'	2.04	0.57
37:DF:136:GLU:O	37:DF:138:GLN:N	2.37	0.57
37:DF:149:ILE:CB	37:DF:150:LYS:CB	2.82	0.57
45:DP:93:ALA:O	45:DP:94:ARG:C	2.48	0.57
45:DP:187:GLU:O	45:DP:188:SER:C	2.47	0.57
56:Da:15:ASN:O	56:Da:17:HIS:N	2.37	0.57
58:Dc:14:LYS:O	58:Dc:18:ALA:HB2	2.04	0.57
1:A1:87:C:H2'	1:A1:87:C:O2	2.04	0.57
1:A1:121:U:H5'	1:A1:121:U:H6	1.69	0.57
1:A1:273:G:OP1	1:A1:273:G:H8	1.87	0.57
1:A1:282:C:H2'	1:A1:282:C:O2	2.03	0.57
1:A1:823:G:N2	1:A1:824:G:H2'	2.19	0.57
1:A1:1150:G:N2	1:A1:1795:U:OP1	2.37	0.57
1:A1:1369:U:H2'	1:A1:1370:U:C6	2.39	0.57
1:A1:1484:G:H21	1:A1:1606:C:C1'	2.12	0.57
1:A1:1677:C:H2'	1:A1:1677:C:O2	2.03	0.57
17:AP:69:ARG:O	17:AP:70:LYS:C	2.47	0.57
18:AQ:66:VAL:C	18:AQ:68:ARG:H	2.12	0.57
23:Ab:25:UNK:C	23:Ab:27:UNK:H	2.17	0.57
29:B1:111:C:O2	29:B1:111:C:H2'	2.04	0.57
29:B1:191:U:O2'	29:B1:192:C:C5'	2.49	0.57
29:B1:199:A:C4	29:B1:201:A:C8	2.92	0.57
29:B1:372:A:N3	29:B1:372:A:H2'	2.18	0.57
29:B1:423:A:N1	29:B1:637:C:OP1	2.38	0.57
29:B1:563:U:C3'	29:B1:564:G:H4'	2.33	0.57
29:B1:581:U:H2'	29:B1:581:U:O2	2.04	0.57
29:B1:591:G:N3	29:B1:592:A:C8	2.72	0.57
29:B1:624:G:H2'	29:B1:625:G:H5'	1.87	0.57
29:B1:648:C:C5	29:B1:2374:C:O2'	2.51	0.57
29:B1:661:G:N1	29:B1:802:C:C5	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:729:C:H2'	29:B1:730:C:O4'	2.03	0.57
29:B1:946:U:C2'	29:B1:947:G:H5'	2.33	0.57
29:B1:1150:A:C8	29:B1:1310:G:H5"	2.39	0.57
29:B1:1517:G:C6	29:B1:1518:U:O4	2.58	0.57
29:B1:1602:A:C6	29:B1:1603:A:C6	2.92	0.57
29:B1:1626:U:C4	29:B1:1627:U:C4	2.92	0.57
29:B1:1658:G:C5	29:B1:1659:U:C5	2.92	0.57
29:B1:1753:G:C4	29:B1:1754:G:C8	2.93	0.57
29:B1:2181:C:C2	29:B1:2182:A:C8	2.92	0.57
29:B1:2210:G:C6	29:B1:2211:U:C4	2.92	0.57
29:B1:2233:A:OP2	74:B1:3599:OHX:N5	2.37	0.57
29:B1:2290:C:H2'	29:B1:2291:A:H8	1.70	0.57
29:B1:2299:A:C6	29:B1:2300:G:C8	2.93	0.57
29:B1:2328:U:H2'	29:B1:2329:C:C5'	2.19	0.57
29:B1:2593:A:C4'	29:B1:2594:C:OP2	2.53	0.57
29:B1:2675:C:H5	29:B1:2676:A:N6	2.02	0.57
29:B1:2677:G:N2	29:B1:2678:A:H5'	2.18	0.57
29:B1:3057:U:O2'	29:B1:3059:G:P	2.62	0.57
29:B1:3315:G:O5'	29:B1:3316:A:OP1	2.22	0.57
29:B1:3344:A:C4	29:B1:3361:G:O6	2.57	0.57
30:B2:69:C:OP2	74:B2:209:OHX:N6	2.37	0.57
31:B3:97:A:O2'	31:B3:98:U:H5'	2.04	0.57
39:BH:230:LYS:N	39:BH:231:LYS:C	2.63	0.57
40:BI:121:LYS:O	40:BI:122:LYS:O	2.23	0.57
43:BN:73:PRO:O	43:BN:76:ALA:N	2.37	0.57
50:BU:105:PRO:C	50:BU:107:GLY:N	2.59	0.57
63:Bh:7:UNK:O	63:Bh:8:UNK:C	2.52	0.57
70:Bq:8:UNK:C	70:Bq:10:UNK:N	2.68	0.57
1:C1:96:G:N2	1:C1:387:A:N1	2.51	0.57
1:C1:290:G:O2'	1:C1:291:G:C8	2.56	0.57
1:C1:312:A:N1	1:C1:315:A:N7	2.52	0.57
1:C1:514:G:C2	1:C1:515:A:C8	2.92	0.57
1:C1:986:G:C4	1:C1:987:G:C8	2.93	0.57
1:C1:1051:G:C2	1:C1:1052:U:N3	2.73	0.57
1:C1:1084:A:C2'	1:C1:1085:G:H5'	2.33	0.57
1:C1:1109:G:C2	1:C1:1110:G:C5	2.92	0.57
1:C1:1111:G:C2'	1:C1:1112:G:H5'	2.35	0.57
1:C1:1153:G:H2'	1:C1:1154:G:O4'	2.05	0.57
1:C1:1202:A:OP1	1:C1:1203:A:OP2	2.22	0.57
1:C1:1203:A:C4'	1:C1:1204:A:OP2	2.52	0.57
1:C1:1232:U:H3'	1:C1:1232:U:O2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1402:G:C5	1:C1:1403:C:C4	2.92	0.57
1:C1:1455:G:C6	1:C1:1456:C:N3	2.72	0.57
1:C1:1575:G:OP1	1:C1:1575:G:C4'	2.53	0.57
1:C1:1578:U:HO2'	1:C1:1579:U:H5'	1.66	0.57
1:C1:1597:A:N7	1:C1:1598:U:C4	2.73	0.57
1:C1:1720:G:H2'	1:C1:1721:A:H5'	1.86	0.57
4:CC:52:ALA:HB3	4:CC:55:THR:CB	2.35	0.57
8:CG:127:ARG:O	8:CG:131:THR:N	2.37	0.57
13:CL:124:GLY:C	13:CL:126:ARG:N	2.58	0.57
23:Cb:62:UNK:O	23:Cb:64:UNK:N	2.38	0.57
24:Cc:4:UNK:O	24:Cc:98:UNK:HA	2.03	0.57
29:D1:115:A:H2'	29:D1:116:A:C2	2.38	0.57
29:D1:609:G:P	29:D1:609:G:C3'	2.91	0.57
29:D1:1196:C:N3	30:D2:86:U:C6	2.72	0.57
29:D1:1226:G:C2	29:D1:1227:C:C5	2.92	0.57
29:D1:1393:A:N3	29:D1:1393:A:H2'	2.17	0.57
29:D1:1445:U:H5"	29:D1:1446:A:OP2	2.03	0.57
29:D1:1587:A:C2	29:D1:1590:G:C4	2.92	0.57
29:D1:1795:U:O4'	29:D1:1796:G:N3	2.37	0.57
29:D1:1921:A:O2'	29:D1:1922:A:H5'	2.04	0.57
29:D1:2143:A:H3'	29:D1:2143:A:C8	2.39	0.57
29:D1:2297:U:C2	29:D1:2299:A:C6	2.93	0.57
29:D1:2390:A:C4'	29:D1:3307:A:H2	2.09	0.57
29:D1:2554:A:C2	33:DB:86:GLN:HA	2.39	0.57
29:D1:2578:U:H2'	29:D1:2579:G:O4'	2.03	0.57
29:D1:2836:C:O2	29:D1:2836:C:H2'	2.05	0.57
29:D1:3005:A:N3	29:D1:3140:G:C2	2.72	0.57
29:D1:3039:C:C2	29:D1:3040:A:C8	2.91	0.57
29:D1:3072:C:C5	29:D1:3073:A:N7	2.69	0.57
29:D1:3163:A:H8	29:D1:3163:A:OP2	1.87	0.57
29:D1:3223:A:N3	29:D1:3223:A:H2'	2.18	0.57
29:D1:3226:A:O2'	29:D1:3227:A:H5'	2.03	0.57
29:D1:3228:C:O2	29:D1:3228:C:O4'	2.17	0.57
29:D1:3257:C:O2'	29:D1:3258:U:H5	1.87	0.57
29:D1:3377:G:H1'	29:D1:3378:C:P	2.45	0.57
30:D2:55:A:H3'	30:D2:55:A:P	2.44	0.57
30:D2:67:G:N2	30:D2:68:C:C1'	2.67	0.57
31:D3:107:G:C2	31:D3:116:G:C5	2.92	0.57
33:DB:172:GLY:O	33:DB:173:GLY:C	2.46	0.57
36:DE:125:VAL:HA	36:DE:169:GLY:HA3	1.85	0.57
41:DJ:17:TYR:C	41:DJ:19:LYS:N	2.61	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:207:GLU:O	41:DJ:208:ASN:C	2.47	0.57
42:DK:73:GLY:O	42:DK:76:ALA:HB2	2.04	0.57
42:DK:121:GLY:C	42:DK:123:PHE:N	2.61	0.57
44:DO:16:SER:O	44:DO:18:VAL:N	2.38	0.57
45:DP:57:PHE:N	45:DP:60:LYS:CB	2.68	0.57
49:DT:8:ARG:O	49:DT:11:THR:CB	2.51	0.57
1:A1:106:U:H3'	1:A1:107:C:C6	2.40	0.57
1:A1:472:U:C5	1:A1:473:A:C8	2.93	0.57
1:A1:527:A:P	1:A1:527:A:H3'	2.44	0.57
1:A1:534:A:O3'	1:A1:535:A:H8	1.88	0.57
1:A1:545:A:O2'	1:A1:546:U:C6	2.58	0.57
1:A1:646:C:H2'	1:A1:647:G:C5'	2.34	0.57
1:A1:989:U:C4	1:A1:990:C:C4	2.93	0.57
1:A1:1044:U:O2	1:A1:1044:U:C2'	2.50	0.57
1:A1:1050:G:C6	1:A1:1051:G:C4	2.92	0.57
1:A1:1322:A:C5	1:A1:1323:C:C5	2.93	0.57
1:A1:1323:C:H2'	1:A1:1324:G:C1'	2.35	0.57
1:A1:1425:A:C2'	1:A1:1426:C:H5'	2.35	0.57
4:AC:69:LEU:O	4:AC:72:LEU:N	2.38	0.57
21:AT:18:GLY:O	21:AT:308:ASN:HA	2.05	0.57
29:B1:9:U:N3	29:B1:10:C:C5	2.72	0.57
29:B1:9:U:O4	29:B1:10:C:H5	1.86	0.57
29:B1:137:G:C8	29:B1:137:G:C3'	2.88	0.57
29:B1:185:C:H2'	29:B1:186:U:C6	2.39	0.57
29:B1:349:A:C2	31:B3:24:G:C8	2.92	0.57
29:B1:423:A:OP1	29:B1:2363:A:H4'	2.04	0.57
29:B1:536:U:H6	29:B1:536:U:O5'	1.87	0.57
29:B1:703:G:N1	29:B1:704:U:N3	2.52	0.57
29:B1:722:G:N2	29:B1:748:U:C2	2.72	0.57
29:B1:759:U:C2'	29:B1:760:G:H5"	2.34	0.57
29:B1:888:A:N6	29:B1:889:U:N3	2.52	0.57
29:B1:993:G:C5	29:B1:2637:A:C2	2.93	0.57
29:B1:998:A:H2'	29:B1:999:G:C5'	2.35	0.57
29:B1:1296:C:C2'	29:B1:1297:C:O5'	2.51	0.57
29:B1:1311:G:O5'	29:B1:1311:G:H8	1.87	0.57
29:B1:1334:U:H5"	38:BG:206:LYS:C	2.29	0.57
29:B1:1353:U:H5	29:B1:1355:A:H62	1.53	0.57
29:B1:1471:U:O4'	48:BS:3:ASN:HA	2.04	0.57
29:B1:2160:G:H2'	29:B1:2161:G:C8	2.39	0.57
29:B1:2675:C:C5	29:B1:2676:A:N6	2.73	0.57
29:B1:2778:G:H2'	29:B1:2778:G:N3	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2834:G:O2'	29:B1:2835:U:C6	2.41	0.57
29:B1:2879:C:C5	29:B1:2880:U:C5	2.92	0.57
29:B1:2880:U:H1'	34:BC:250:ALA:HB3	1.87	0.57
29:B1:3013:U:O2	29:B1:3013:U:H2'	2.03	0.57
29:B1:3153:U:H1'	29:B1:3395:G:H21	1.69	0.57
29:B1:3201:C:C6	29:B1:3201:C:OP2	2.56	0.57
29:B1:3219:G:C5	29:B1:3257:C:H3'	2.38	0.57
29:B1:3279:A:C5	29:B1:3280:U:O4	2.58	0.57
30:B2:67:G:N3	30:B2:67:G:H2'	2.19	0.57
30:B2:120:C:N3	30:B2:121:U:O4	2.36	0.57
37:BF:108:LYS:O	37:BF:109:GLU:CB	2.53	0.57
46:BQ:11:PRO:O	46:BQ:12:ALA:HB2	2.03	0.57
51:BV:43:ARG:O	51:BV:44:LYS:C	2.47	0.57
56:Ba:15:ASN:O	56:Ba:17:HIS:N	2.37	0.57
57:Bb:42:VAL:O	57:Bb:44:ARG:N	2.37	0.57
1:C1:260:U:H3'	1:C1:261:U:H5"	1.86	0.57
1:C1:363:G:N2	1:C1:382:C:C2	2.72	0.57
1:C1:405:C:C2	1:C1:406:U:C5	2.93	0.57
1:C1:1381:U:C2'	1:C1:1382:A:H5'	2.35	0.57
1:C1:1558:U:OP2	1:C1:1559:A:H5'	2.04	0.57
1:C1:1580:C:H2'	1:C1:1581:C:H6	1.68	0.57
1:C1:1737:G:C6	1:C1:1738:U:C4	2.92	0.57
4:CC:191:ASP:C	4:CC:193:ALA:H	2.11	0.57
7:CF:125:VAL:HA	7:CF:139:VAL:HA	1.85	0.57
10:CI:37:ALA:HA	10:CI:40:ARG:CB	2.34	0.57
15:CN:31:VAL:O	15:CN:35:GLU:N	2.37	0.57
29:D1:10:C:H5	31:D3:149:A:C2	2.23	0.57
29:D1:26:A:C2'	29:D1:27:C:C6	2.85	0.57
29:D1:30:G:C6	29:D1:55:G:O6	2.57	0.57
29:D1:180:C:H2'	29:D1:181:U:C6	2.40	0.57
29:D1:190:U:C4	29:D1:224:C:H1'	2.38	0.57
29:D1:221:A:C5	29:D1:224:C:C4	2.92	0.57
29:D1:264:G:C6	29:D1:265:A:N6	2.72	0.57
29:D1:594:U:C2	29:D1:595:G:C6	2.92	0.57
29:D1:606:C:N4	29:D1:607:A:C6	2.66	0.57
29:D1:606:C:C2'	29:D1:607:A:N9	2.64	0.57
29:D1:716:A:H3'	29:D1:716:A:C8	2.38	0.57
29:D1:1128:U:C5'	29:D1:1129:A:OP2	2.52	0.57
29:D1:1140:G:C4	29:D1:1141:C:C5	2.91	0.57
29:D1:1246:G:C2	29:D1:1247:U:O2	2.56	0.57
29:D1:1313:G:C4	29:D1:1314:C:C5	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1741:A:H3'	29:D1:1742:U:C5	2.39	0.57
29:D1:1779:C:OP1	29:D1:1779:C:O4'	2.21	0.57
29:D1:1779:C:OP1	29:D1:1780:G:OP1	2.21	0.57
29:D1:1787:A:C5	29:D1:1788:C:C5	2.92	0.57
29:D1:2275:A:C2	29:D1:2312:A:C4	2.92	0.57
29:D1:2649:A:C1'	29:D1:2696:A:H1'	2.34	0.57
29:D1:2658:G:C5	29:D1:2659:G:N7	2.73	0.57
29:D1:2681:U:O2'	29:D1:2682:C:P	2.62	0.57
29:D1:2682:C:OP1	42:DK:50:ALA:N	2.38	0.57
29:D1:2833:A:C2'	29:D1:2834:G:H5'	2.31	0.57
29:D1:2842:U:O2	29:D1:2842:U:C2'	2.53	0.57
29:D1:2997:G:H1'	29:D1:2998:U:OP2	2.03	0.57
29:D1:3268:A:H1'	29:D1:3269:U:OP1	2.04	0.57
29:D1:3273:A:H2'	29:D1:3273:A:N3	2.18	0.57
29:D1:3376:A:OP2	29:D1:3376:A:C4'	2.51	0.57
30:D2:10:C:O2'	30:D2:13:A:C8	2.55	0.57
30:D2:14:U:O2'	30:D2:15:C:C4'	2.53	0.57
37:DF:41:ILE:H	37:DF:85:ILE:C	2.11	0.57
38:DG:69:ALA:C	38:DG:71:ALA:H	2.12	0.57
38:DG:222:HIS:CB	38:DG:228:SER:H	2.18	0.57
40:DI:71:VAL:O	40:DI:72:LYS:C	2.45	0.57
43:DN:22:LEU:CB	43:DN:65:LEU:CA	2.82	0.57
52:DW:133:LEU:O	52:DW:136:ALA:HB3	2.03	0.57
53:DX:64:LYS:O	53:DX:66:GLN:N	2.36	0.57
54:DY:33:GLY:O	54:DY:34:MET:C	2.47	0.57
59:Dd:41:ALA:O	59:Dd:43:LYS:N	2.37	0.57
1:A1:7:G:H4'	1:A1:573:C:H4'	1.87	0.57
1:A1:66:U:C4	1:A1:71:A:N6	2.72	0.57
1:A1:210:A:C6	1:A1:211:U:C4	2.93	0.57
1:A1:534:A:C3'	1:A1:535:A:H8	2.18	0.57
1:A1:537:G:N2	1:A1:538:A:H1'	2.19	0.57
1:A1:635:A:C5	1:A1:863:A:N7	2.72	0.57
1:A1:768:C:C2'	1:A1:769:A:H5'	2.35	0.57
1:A1:970:A:H2'	1:A1:971:A:H5'	1.87	0.57
1:A1:982:U:H2'	1:A1:983:A:C8	2.39	0.57
1:A1:986:G:O2'	1:A1:987:G:H2'	2.04	0.57
1:A1:986:G:O2'	1:A1:987:G:O5'	2.20	0.57
1:A1:993:A:H2'	1:A1:994:G:H5'	1.86	0.57
5:AD:179:ALA:O	5:AD:180:ARG:C	2.47	0.57
8:AG:108:ASP:O	8:AG:111:ALA:HB3	2.04	0.57
19:AR:7:VAL:HA	19:AR:28:VAL:C	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:66:A:H62	29:B1:76:G:H21	1.53	0.57
29:B1:184:U:C2	29:B1:185:C:C6	2.92	0.57
29:B1:221:A:C8	29:B1:224:C:N4	2.72	0.57
29:B1:271:C:C4	29:B1:295:A:N7	2.72	0.57
29:B1:601:U:N3	29:B1:602:A:C8	2.73	0.57
29:B1:815:G:C6	29:B1:906:A:N3	2.72	0.57
29:B1:1128:U:O2	29:B1:1129:A:H1'	2.05	0.57
29:B1:1168:U:H2'	29:B1:1169:A:H5'	1.87	0.57
29:B1:1459:C:O5'	29:B1:1459:C:H6	1.87	0.57
29:B1:1493:G:N3	29:B1:1493:G:O4'	2.38	0.57
29:B1:1659:U:N3	29:B1:1660:C:N4	2.53	0.57
29:B1:1797:A:C6	29:B1:1798:A:C5	2.92	0.57
29:B1:1838:G:O4'	29:B1:1839:A:C8	2.58	0.57
29:B1:2261:G:N2	29:B1:2263:C:C4	2.72	0.57
29:B1:2266:U:C4	29:B1:2267:C:N4	2.72	0.57
29:B1:2386:A:N9	29:B1:2994:A:C2	2.73	0.57
29:B1:2482:U:H2'	29:B1:2483:G:O4'	2.05	0.57
29:B1:2821:C:C2'	29:B1:2822:U:H5'	2.33	0.57
29:B1:2896:A:C2'	29:B1:2897:A:H5"	2.35	0.57
29:B1:2942:C:OP1	29:B1:2943:G:OP1	2.22	0.57
29:B1:3121:U:C2	29:B1:3122:A:C8	2.91	0.57
29:B1:3147:G:H4'	34:BC:101:SER:H	1.70	0.57
29:B1:3219:G:H4'	29:B1:3220:G:C5'	2.34	0.57
29:B1:3309:G:N3	29:B1:3310:A:C8	2.73	0.57
29:B1:3322:A:OP2	29:B1:3323:A:P	2.62	0.57
74:B1:3537:OHX:N4	38:BG:217:PRO:HA	2.20	0.57
30:B2:77:G:H22	30:B2:101:G:H3'	1.70	0.57
30:B2:90:U:H5"	30:B2:91:G:OP2	2.04	0.57
30:B2:102:A:H2'	30:B2:103:A:O5'	2.04	0.57
31:B3:25:G:C6	31:B3:26:U:C4	2.93	0.57
35:BD:191:LYS:O	35:BD:192:GLY:C	2.48	0.57
50:BU:111:GLY:O	50:BU:112:SER:O	2.23	0.57
1:C1:104:A:N6	1:C1:106:U:C2	2.72	0.57
1:C1:282:C:C2'	1:C1:283:U:H5'	2.33	0.57
1:C1:312:A:C2	1:C1:315:A:C8	2.91	0.57
1:C1:487:G:C2	1:C1:488:G:N7	2.73	0.57
1:C1:602:U:C2	1:C1:603:U:C5	2.92	0.57
1:C1:687:G:C2	1:C1:688:G:C8	2.92	0.57
1:C1:738:G:H2'	1:C1:739:G:C8	2.39	0.57
1:C1:798:C:C2'	1:C1:799:A:H5'	2.35	0.57
1:C1:866:G:C2	1:C1:867:G:C8	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:982:U:O4	1:C1:983:A:N6	2.38	0.57
1:C1:1087:A:HO2'	1:C1:1142:A:HO2'	1.49	0.57
1:C1:1243:G:N2	1:C1:1452:U:H4'	2.19	0.57
1:C1:1472:C:C1'	1:C1:1473:U:OP2	2.52	0.57
1:C1:1474:G:N1	1:C1:1475:A:C6	2.72	0.57
1:C1:1552:U:O4	1:C1:1553:G:C6	2.58	0.57
1:C1:1590:G:H2'	1:C1:1591:C:H5	1.66	0.57
1:C1:1671:A:C4	1:C1:1731:A:N1	2.73	0.57
1:C1:1751:C:H2'	1:C1:1752:U:C6	2.40	0.57
3:CB:118:ALA:HB2	3:CB:124:ALA:N	2.20	0.57
4:CC:47:GLU:HA	4:CC:85:VAL:O	2.05	0.57
6:CE:122:VAL:O	6:CE:123:HIS:C	2.46	0.57
29:D1:40:A:C3'	29:D1:41:G:H5'	2.34	0.57
29:D1:65:A:C3'	29:D1:111:C:H41	2.17	0.57
29:D1:176:G:O2'	29:D1:177:U:H6	1.88	0.57
29:D1:185:C:C2	29:D1:186:U:H5	2.21	0.57
29:D1:360:G:N1	29:D1:361:A:N6	2.52	0.57
29:D1:594:U:C2	29:D1:595:G:C4	2.93	0.57
29:D1:722:G:N2	29:D1:748:U:C2	2.71	0.57
29:D1:1065:A:N3	29:D1:1065:A:C3'	2.58	0.57
29:D1:1239:C:H2'	29:D1:1240:A:O4'	2.04	0.57
29:D1:1306:G:C8	45:DP:62:THR:CB	2.87	0.57
29:D1:1437:C:O2	29:D1:1437:C:C2'	2.50	0.57
29:D1:1719:G:H4'	29:D1:1732:U:H4'	1.86	0.57
29:D1:2125:A:H5'	29:D1:2126:A:OP2	2.05	0.57
29:D1:2178:A:H1'	29:D1:2180:G:C5	2.40	0.57
29:D1:2226:U:O2'	29:D1:2227:C:H6	1.87	0.57
29:D1:2246:G:C2	29:D1:2247:G:C8	2.93	0.57
29:D1:2420:C:N4	29:D1:2421:U:C4	2.73	0.57
29:D1:2646:C:O2'	29:D1:2647:A:H5'	2.03	0.57
29:D1:2651:G:C4	29:D1:2796:G:N2	2.73	0.57
29:D1:2775:U:O2'	29:D1:2776:C:O5'	2.23	0.57
29:D1:2853:A:N6	29:D1:2854:U:N3	2.51	0.57
29:D1:2931:C:H2'	29:D1:2932:U:O4'	2.05	0.57
29:D1:3088:G:C6	29:D1:3089:C:C4	2.92	0.57
29:D1:3101:G:C5	29:D1:3134:A:C2	2.93	0.57
29:D1:3196:U:C6	29:D1:3197:G:N2	2.73	0.57
29:D1:3219:G:H4'	29:D1:3220:G:C5'	2.34	0.57
29:D1:3219:G:N2	29:D1:3258:U:OP2	2.38	0.57
29:D1:3242:G:H5'	29:D1:3243:A:OP1	2.05	0.57
29:D1:3317:U:OP1	29:D1:3318:G:O5'	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3350:C:H2'	29:D1:3351:U:H3	1.70	0.57
30:D2:41:G:C2	30:D2:43:U:C6	2.93	0.57
30:D2:63:A:C6	30:D2:65:G:O6	2.57	0.57
30:D2:69:C:O2	30:D2:110:G:C2	2.58	0.57
31:D3:151:C:O5'	31:D3:151:C:H6	1.87	0.57
42:DK:101:ASN:C	42:DK:103:GLY:N	2.60	0.57
47:DR:96:PHE:CA	47:DR:97:PRO:CB	2.82	0.57
1:A1:17:C:C2	1:A1:18:C:C6	2.92	0.57
1:A1:196:G:H1'	1:A1:197:A:H5'	1.85	0.57
1:A1:335:U:C5'	1:A1:336:G:OP2	2.52	0.57
1:A1:358:U:H5"	1:A1:359:A:P	2.44	0.57
1:A1:748:U:H4'	16:AO:123:GLY:HA2	1.85	0.57
1:A1:894:U:H1'	1:A1:919:A:C2	2.40	0.57
1:A1:1145:U:O2'	3:AB:89:GLN:O	2.17	0.57
1:A1:1526:A:OP2	1:A1:1527:C:C5	2.57	0.57
1:A1:1651:A:C2	1:A1:1652:C:C4	2.92	0.57
1:A1:1721:A:H8	1:A1:1721:A:O5'	1.87	0.57
1:A1:1770:U:N3	1:A1:1793:G:N2	2.52	0.57
1:A1:1781:A:N1	1:A1:1782:A:C2	2.72	0.57
11:AJ:54:LEU:C	11:AJ:56:GLY:N	2.58	0.57
21:AT:243:LEU:O	21:AT:244:ALA:HB2	2.04	0.57
24:Ac:27:UNK:O	24:Ac:29:UNK:N	2.37	0.57
29:B1:102:C:H1'	29:B1:103:G:P	2.45	0.57
29:B1:253:A:N6	29:B1:254:A:N6	2.52	0.57
29:B1:339:C:C2	29:B1:340:C:H5	2.23	0.57
29:B1:344:A:C2'	29:B1:345:G:O5'	2.51	0.57
29:B1:535:G:N1	29:B1:558:U:O2'	2.38	0.57
29:B1:564:G:H3'	29:B1:565:U:H6	1.70	0.57
29:B1:816:A:H5'	29:B1:906:A:H61	1.69	0.57
29:B1:873:C:H4'	29:B1:1907:C:O2'	2.05	0.57
29:B1:898:U:C4	29:B1:899:U:C4	2.92	0.57
29:B1:957:C:H2'	29:B1:958:C:H6	1.70	0.57
29:B1:1049:C:O2'	29:B1:1050:U:H5'	2.05	0.57
29:B1:1362:G:H2'	29:B1:1363:A:H8	1.67	0.57
29:B1:1393:A:C2	29:B1:1394:A:C4	2.93	0.57
29:B1:1794:G:C4'	29:B1:1795:U:OP2	2.51	0.57
29:B1:1922:A:C8	29:B1:1923:C:C5	2.92	0.57
29:B1:2185:G:C4	29:B1:2186:U:C5	2.92	0.57
29:B1:2287:C:O2	29:B1:2298:U:O2	2.22	0.57
29:B1:2641:U:H5"	29:B1:2642:A:OP1	2.04	0.57
29:B1:2661:G:H5'	29:B1:2749:G:N2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2787:G:H2'	29:B1:2788:C:C6	2.40	0.57
29:B1:3072:C:H5	29:B1:3073:A:N7	2.02	0.57
30:B2:73:C:N3	30:B2:74:C:C4	2.73	0.57
30:B2:90:U:O2	30:B2:90:U:H2'	2.04	0.57
36:BE:111:GLN:N	36:BE:114:GLY:C	2.52	0.57
39:BH:187:GLY:HA3	39:BH:194:THR:C	2.30	0.57
41:BJ:73:ASN:O	41:BJ:74:LYS:C	2.47	0.57
43:BN:24:LYS:HA	43:BN:31:LYS:C	2.28	0.57
1:C1:26:A:OP1	1:C1:26:A:H3'	2.04	0.57
1:C1:97:C:O4'	1:C1:426:G:H4'	2.04	0.57
1:C1:285:G:C6	1:C1:286:C:C4	2.92	0.57
1:C1:385:A:OP2	1:C1:385:A:C8	2.56	0.57
1:C1:492:A:C5	1:C1:494:U:H5"	2.39	0.57
1:C1:572:C:N4	1:C1:573:C:N4	2.52	0.57
1:C1:820:U:H2'	1:C1:821:U:O5'	2.04	0.57
1:C1:975:C:C4	1:C1:976:G:C5	2.92	0.57
1:C1:1046:G:H8	1:C1:1046:G:OP1	1.88	0.57
1:C1:1325:A:C2	1:C1:1326:A:C5	2.93	0.57
1:C1:1336:A:H5"	1:C1:1337:A:OP2	2.04	0.57
1:C1:1354:G:H2'	1:C1:1354:G:N3	2.19	0.57
1:C1:1397:U:H5"	1:C1:1398:U:OP2	2.05	0.57
1:C1:1433:G:N2	1:C1:1434:U:C4	2.73	0.57
1:C1:1491:U:H3'	1:C1:1492:A:C5'	2.35	0.57
1:C1:1515:A:C2'	1:C1:1516:A:H5"	2.34	0.57
1:C1:1534:G:H4'	1:C1:1536:G:N7	2.20	0.57
3:CB:213:ALA:O	3:CB:215:PHE:N	2.36	0.57
3:CB:215:PHE:HA	3:CB:218:ILE:CB	2.35	0.57
6:CE:131:GLN:O	6:CE:133:HIS:N	2.35	0.57
14:CM:7:ARG:O	14:CM:8:ASP:CB	2.53	0.57
21:CT:35:SER:CB	21:CT:43:ILE:O	2.53	0.57
24:Cc:11:UNK:HA	24:Cc:92:UNK:CB	2.35	0.57
29:D1:347:G:N2	29:D1:353:G:C8	2.73	0.57
29:D1:349:A:C2	31:D3:24:G:N9	2.73	0.57
29:D1:372:A:N7	29:D1:395:A:N7	2.52	0.57
29:D1:385:A:C2	29:D1:386:A:C4	2.93	0.57
29:D1:559:A:O2'	29:D1:560:G:O5'	2.21	0.57
29:D1:588:G:H4'	29:D1:589:A:C5	2.38	0.57
29:D1:661:G:C2	29:D1:802:C:C6	2.92	0.57
29:D1:1289:G:H2'	29:D1:1290:A:O4'	2.04	0.57
29:D1:1542:G:C6	74:D1:3556:OHX:N3	2.73	0.57
29:D1:1558:A:H5"	29:D1:1559:A:C4'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1584:U:O2'	29:D1:1585:C:H5'	2.04	0.57
29:D1:1647:A:C2	29:D1:1809:A:H1'	2.39	0.57
29:D1:2582:C:H3'	29:D1:2583:C:C6	2.40	0.57
29:D1:2582:C:O2	29:D1:2582:C:H2'	2.04	0.57
29:D1:2689:A:C2	29:D1:2702:A:C2	2.86	0.57
29:D1:2768:U:H2'	29:D1:2769:A:C8	2.39	0.57
29:D1:2881:C:C2	29:D1:2882:U:C5	2.92	0.57
29:D1:3209:A:H3'	29:D1:3210:A:H8	1.67	0.57
29:D1:3276:G:H2'	29:D1:3277:U:O4'	2.05	0.57
29:D1:3299:A:C4	29:D1:3300:U:C5	2.92	0.57
29:D1:3321:C:C4	29:D1:3322:A:N7	2.73	0.57
29:D1:3373:U:O4	29:D1:3374:U:O4	2.23	0.57
31:D3:19:C:C2	31:D3:20:U:C5	2.93	0.57
31:D3:74:U:O4	31:D3:77:A:H5"	2.04	0.57
34:DC:40:PRO:O	34:DC:42:ALA:N	2.38	0.57
35:DD:265:GLU:O	35:DD:266:THR:CB	2.52	0.57
39:DH:230:LYS:N	39:DH:231:LYS:C	2.63	0.57
42:DK:79:ILE:C	42:DK:81:GLU:H	2.12	0.57
43:DN:22:LEU:O	43:DN:23:ILE:CB	2.53	0.57
57:Db:42:VAL:C	57:Db:44:ARG:H	2.12	0.57
57:Db:123:LYS:CB	57:Db:124:GLY:CA	2.78	0.57
59:Dd:67:LEU:HA	59:Dd:70:VAL:C	2.29	0.57
1:A1:15:U:C2	1:A1:16:G:C8	2.92	0.57
1:A1:173:A:C6	1:A1:174:U:N1	2.73	0.57
1:A1:192:U:H6	1:A1:192:U:H3'	1.70	0.57
1:A1:217:A:H1'	1:A1:218:A:P	2.45	0.57
1:A1:620:A:C5	1:A1:621:A:N1	2.73	0.57
1:A1:954:G:C5	1:A1:955:A:N7	2.72	0.57
1:A1:1169:G:C2	1:A1:1577:A:C6	2.92	0.57
1:A1:1200:G:H5"	1:A1:1200:G:C8	2.39	0.57
1:A1:1449:U:C2'	1:A1:1450:U:O5'	2.53	0.57
1:A1:1557:U:OP2	1:A1:1560:U:O4	2.22	0.57
5:AD:65:ARG:O	5:AD:87:CYS:C	2.48	0.57
29:B1:5:G:H22	31:B3:155:A:C1'	2.13	0.57
29:B1:49:A:O2'	29:B1:50:U:OP1	2.21	0.57
29:B1:150:A:N7	29:B1:151:A:N7	2.53	0.57
29:B1:345:G:OP1	29:B1:1429:G:N2	2.37	0.57
29:B1:430:U:O2'	29:B1:431:U:H5'	2.05	0.57
29:B1:505:G:N7	29:B1:506:U:C5	2.73	0.57
29:B1:509:U:H2'	29:B1:510:G:H5'	1.86	0.57
29:B1:820:A:C2	29:B1:911:C:O2'	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1099:A:C2'	29:B1:1100:U:H5'	2.34	0.57
29:B1:1138:U:H2'	29:B1:1139:G:H5"	1.87	0.57
29:B1:1140:G:C4	29:B1:1141:C:C5	2.92	0.57
29:B1:1157:G:C5'	29:B1:1157:G:C8	2.85	0.57
29:B1:1257:C:H42	29:B1:1261:G:N2	2.01	0.57
29:B1:1330:A:O2'	29:B1:1331:U:H2'	2.04	0.57
29:B1:1337:A:C4	29:B1:1338:C:C5	2.92	0.57
29:B1:1366:A:N3	29:B1:1367:G:C8	2.72	0.57
29:B1:1641:U:H4'	29:B1:1642:A:OP1	2.04	0.57
29:B1:1693:C:HO2'	29:B1:1772:U:HO2'	1.47	0.57
29:B1:1919:G:C2	29:B1:1920:U:C2	2.92	0.57
29:B1:2105:G:H5'	29:B1:2105:G:H8	1.67	0.57
29:B1:2199:G:C6	29:B1:2200:U:C4	2.92	0.57
29:B1:2325:G:C2	29:B1:2326:A:C8	2.93	0.57
29:B1:3200:G:C8	29:B1:3200:G:OP2	2.58	0.57
29:B1:3323:A:C6	29:B1:3324:C:C5	2.93	0.57
30:B2:60:G:N3	30:B2:61:G:C8	2.72	0.57
30:B2:77:G:N2	30:B2:101:G:C4	2.73	0.57
31:B3:49:G:C6	31:B3:50:C:C4	2.93	0.57
31:B3:49:G:H2'	31:B3:50:C:O5'	2.04	0.57
31:B3:71:A:C6	31:B3:87:G:C5	2.91	0.57
31:B3:78:G:H2'	31:B3:79:A:C8	2.39	0.57
31:B3:141:C:O2'	44:BO:110:ALA:HB1	2.05	0.57
34:BC:87:VAL:C	34:BC:88:GLY:O	2.46	0.57
37:BF:120:ASN:O	37:BF:121:LEU:CB	2.52	0.57
42:BK:133:ARG:N	42:BK:155:THR:N	2.53	0.57
56:Ba:36:ILE:O	56:Ba:37:LYS:C	2.47	0.57
57:Bb:44:ARG:O	57:Bb:45:ARG:CB	2.52	0.57
1:C1:39:A:C5	1:C1:467:G:N2	2.73	0.57
1:C1:115:G:N2	1:C1:334:G:H21	2.02	0.57
1:C1:119:A:OP2	1:C1:120:U:C5	2.58	0.57
1:C1:310:C:C6	1:C1:310:C:C3'	2.87	0.57
1:C1:327:U:H5"	1:C1:328:A:OP2	2.05	0.57
1:C1:340:U:C2	1:C1:341:A:C8	2.93	0.57
1:C1:524:U:C4	1:C1:527:A:C5	2.93	0.57
1:C1:813:U:C6	48:DS:162:ARG:CB	2.88	0.57
1:C1:921:U:C2	1:C1:922:G:N7	2.73	0.57
1:C1:1065:A:C5	1:C1:1066:C:C4	2.92	0.57
1:C1:1131:A:N3	1:C1:1131:A:H2'	2.19	0.57
1:C1:1179:G:N2	1:C1:1461:C:C4	2.73	0.57
1:C1:1209:C:N3	1:C1:1455:G:N2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1235:C:H2'	1:C1:1236:A:O4'	2.05	0.57
1:C1:1382:A:C4	1:C1:1383:G:N7	2.72	0.57
1:C1:1382:A:H5"	15:CN:59:PRO:HA	1.85	0.57
1:C1:1499:G:O6	1:C1:1508:U:C2	2.55	0.57
1:C1:1522:U:H2'	1:C1:1523:G:O5'	2.05	0.57
1:C1:1584:G:N3	1:C1:1584:G:H2'	2.20	0.57
1:C1:1780:G:H2'	1:C1:1781:A:C8	2.39	0.57
2:CA:130:ALA:O	2:CA:132:ALA:N	2.38	0.57
4:CC:21:LEU:O	4:CC:22:ASN:C	2.47	0.57
17:CP:79:ASN:C	17:CP:81:LYS:H	2.13	0.57
28:Ch:3:UNK:O	28:Ch:6:UNK:C	2.53	0.57
29:D1:152:U:H2'	29:D1:153:U:C6	2.33	0.57
29:D1:270:U:O2'	29:D1:271:C:H5'	2.05	0.57
29:D1:342:A:C4'	29:D1:344:A:N7	2.65	0.57
29:D1:547:G:C8	29:D1:548:G:C5	2.93	0.57
29:D1:572:A:C5	29:D1:573:C:C4	2.92	0.57
29:D1:649:A:N3	29:D1:650:C:C5	2.73	0.57
29:D1:1153:A:N7	29:D1:1154:A:N1	2.52	0.57
29:D1:1225:A:H2'	29:D1:1226:G:OP1	2.04	0.57
29:D1:1238:C:H2'	29:D1:1239:C:H6	1.67	0.57
29:D1:1351:U:O2	29:D1:1351:U:C2'	2.53	0.57
29:D1:1422:G:C5	29:D1:1423:C:C5	2.92	0.57
29:D1:1424:C:N4	29:D1:1425:U:C4	2.72	0.57
29:D1:1943:C:H4'	29:D1:3344:A:H5'	1.86	0.57
29:D1:2131:A:C8	29:D1:2131:A:H3'	2.40	0.57
29:D1:2285:C:C5	29:D1:2286:U:C4	2.93	0.57
29:D1:2407:C:H1'	29:D1:2818:U:N3	2.20	0.57
29:D1:2423:U:H2'	29:D1:2424:A:OP2	2.05	0.57
29:D1:2752:U:H3'	29:D1:2752:U:O2	2.05	0.57
29:D1:2768:U:HO2'	29:D1:2769:A:H5'	1.69	0.57
29:D1:2896:A:C5'	29:D1:2896:A:H8	2.18	0.57
29:D1:3069:G:N3	29:D1:3070:A:C8	2.73	0.57
29:D1:3204:C:C5'	43:DN:88:ALA:HB3	2.32	0.57
30:D2:8:G:OP1	49:DT:28:SER:CB	2.53	0.57
30:D2:38:U:C2'	30:D2:40:C:C5'	2.83	0.57
30:D2:46:A:H3'	30:D2:46:A:C4	2.40	0.57
34:DC:195:ALA:O	34:DC:196:ARG:C	2.48	0.57
34:DC:261:MET:HA	34:DC:263:SER:C	2.30	0.57
35:DD:16:THR:CB	35:DD:152:VAL:HA	2.35	0.57
37:DF:142:ASP:O	37:DF:144:ALA:N	2.30	0.57
39:DH:208:GLU:O	39:DH:209:ALA:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:Dd:28:HIS:O	59:Dd:29:VAL:C	2.47	0.57
62:Dg:79:VAL:O	62:Dg:80:ARG:C	2.48	0.57
1:A1:18:C:H2'	1:A1:19:A:C8	2.40	0.57
1:A1:89:G:N2	1:A1:90:C:C2	2.73	0.57
1:A1:151:G:N1	1:A1:163:G:N2	2.36	0.57
1:A1:295:A:N3	1:A1:296:U:O4'	2.38	0.57
1:A1:328:A:C6	1:A1:341:A:C6	2.93	0.57
1:A1:527:A:H3'	1:A1:527:A:OP2	2.03	0.57
1:A1:873:U:N3	1:A1:874:C:N4	2.52	0.57
1:A1:915:A:N7	1:A1:916:U:C4	2.72	0.57
1:A1:1002:G:N2	1:A1:1760:G:O3'	2.38	0.57
1:A1:1141:G:N3	1:A1:1142:A:C8	2.73	0.57
1:A1:1272:U:O4	1:A1:1431:C:O2	2.23	0.57
1:A1:1325:A:H2'	1:A1:1326:A:C8	2.40	0.57
1:A1:1335:U:O2	1:A1:1335:U:H2'	2.03	0.57
1:A1:1348:A:C5	1:A1:1379:C:C4	2.93	0.57
1:A1:1497:U:C5	1:A1:1498:G:N7	2.72	0.57
3:AB:65:GLU:O	3:AB:66:PHE:CB	2.53	0.57
6:AE:68:LYS:C	6:AE:70:LEU:N	2.60	0.57
13:AL:33:THR:HA	13:AL:38:VAL:O	2.05	0.57
21:AT:84:SER:C	21:AT:86:ASP:N	2.61	0.57
29:B1:23:A:OP1	59:Bd:43:LYS:HA	2.04	0.57
29:B1:279:U:OP2	74:B1:3536:OHX:N5	2.38	0.57
29:B1:519:A:N6	37:BF:30:LEU:C	2.63	0.57
29:B1:600:G:C2	29:B1:604:G:C6	2.92	0.57
29:B1:717:C:C5'	29:B1:719:U:O4'	2.50	0.57
29:B1:744:A:C6	29:B1:745:C:C4	2.93	0.57
29:B1:746:A:O2'	29:B1:747:A:OP1	2.23	0.57
29:B1:790:U:H4'	35:BD:112:LYS:O	2.04	0.57
29:B1:1454:A:O4'	29:B1:1878:G:N2	2.37	0.57
29:B1:1590:G:C2	29:B1:1591:G:C8	2.93	0.57
29:B1:1597:C:H5'	29:B1:1696:A:H1'	1.87	0.57
29:B1:1720:U:H3'	29:B1:1720:U:C6	2.39	0.57
29:B1:1875:G:C6	29:B1:1876:U:C5	2.92	0.57
29:B1:1907:C:H3'	29:B1:1907:C:H6	1.69	0.57
29:B1:2167:A:H3'	29:B1:2168:A:C8	2.38	0.57
29:B1:2194:G:H1'	29:B1:2274:U:O2	2.04	0.57
29:B1:2248:C:C4'	29:B1:2271:A:H2	2.17	0.57
29:B1:2285:C:H5	29:B1:2286:U:N1	2.03	0.57
29:B1:2371:G:H5"	29:B1:2372:A:P	2.45	0.57
29:B1:2990:G:H5'	34:BC:20:LYS:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3102:G:C2	29:B1:3103:A:C4	2.93	0.57
29:B1:3182:G:N2	29:B1:3189:G:OP1	2.34	0.57
29:B1:3203:U:O3'	29:B1:3204:C:O4'	2.22	0.57
29:B1:3262:U:OP2	29:B1:3262:U:C3'	2.52	0.57
29:B1:3264:G:H2'	29:B1:3265:C:C5'	2.31	0.57
35:BD:97:GLY:O	35:BD:98:ARG:C	2.47	0.57
47:BR:57:ILE:C	47:BR:59:ARG:N	2.60	0.57
57:Bb:34:LYS:O	57:Bb:36:LYS:N	2.37	0.57
1:C1:71:A:H2	1:C1:72:A:H62	1.45	0.57
1:C1:298:C:C6	1:C1:298:C:C3'	2.86	0.57
1:C1:379:U:N3	1:C1:380:U:H5	2.03	0.57
1:C1:401:A:C2	1:C1:404:G:C8	2.92	0.57
1:C1:550:A:H4'	1:C1:556:A:C6	2.40	0.57
1:C1:789:A:C2	1:C1:790:U:H1'	2.40	0.57
1:C1:823:G:N2	1:C1:824:G:H2'	2.19	0.57
1:C1:862:A:C8	1:C1:963:A:N6	2.73	0.57
1:C1:1056:U:H1'	1:C1:1064:G:H21	1.68	0.57
1:C1:1075:C:N4	1:C1:1076:A:N6	2.53	0.57
1:C1:1239:U:O2'	1:C1:1240:U:C6	2.57	0.57
1:C1:1285:U:O2	1:C1:1286:U:C5	2.58	0.57
1:C1:1410:A:N7	1:C1:1411:A:C5	2.73	0.57
1:C1:1497:U:C4	1:C1:1511:U:C2	2.93	0.57
1:C1:1556:A:H2'	1:C1:1560:U:C5	2.39	0.57
1:C1:1783:C:H2'	1:C1:1784:C:C6	2.39	0.57
2:CA:17:LEU:C	2:CA:19:ALA:H	2.12	0.57
5:CD:57:SER:O	5:CD:59:VAL:O	2.23	0.57
5:CD:166:ARG:O	5:CD:169:ASN:N	2.38	0.57
8:CG:119:GLU:C	8:CG:121:ARG:N	2.60	0.57
17:CP:132:LEU:H	17:CP:133:LEU:C	2.12	0.57
23:Cb:114:UNK:C	23:Cb:116:UNK:N	2.68	0.57
24:Cc:33:UNK:HA	24:Cc:36:UNK:CB	2.35	0.57
29:D1:80:G:O2'	29:D1:81:C:H5'	2.04	0.57
29:D1:81:C:O2'	29:D1:82:C:C5'	2.45	0.57
29:D1:156:G:C1'	29:D1:157:A:OP1	2.53	0.57
29:D1:176:G:O2'	29:D1:177:U:C6	2.57	0.57
29:D1:333:G:H2'	29:D1:334:A:C8	2.39	0.57
29:D1:380:U:H2'	29:D1:381:U:C5	2.39	0.57
29:D1:413:U:O5'	29:D1:413:U:H6	1.86	0.57
29:D1:420:G:H21	29:D1:2384:A:C2'	2.17	0.57
29:D1:421:G:C2	29:D1:2365:C:C2	2.92	0.57
29:D1:572:A:C8	29:D1:573:C:C5	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:770:G:H3'	29:D1:771:A:H5"	1.87	0.57
29:D1:1021:G:C6	29:D1:1022:U:C4	2.93	0.57
29:D1:1250:G:N2	29:D1:1251:A:C2	2.73	0.57
29:D1:1258:U:C2'	29:D1:1259:A:O5'	2.50	0.57
29:D1:1317:A:C4	29:D1:1319:G:C8	2.92	0.57
29:D1:1359:C:H2'	29:D1:1359:C:O2	2.05	0.57
29:D1:1446:A:N1	29:D1:2356:A:H5"	2.20	0.57
29:D1:1480:G:C2	29:D1:1871:U:OP2	2.57	0.57
29:D1:1489:A:OP2	29:D1:1838:G:N1	2.38	0.57
29:D1:1528:G:C4	29:D1:1529:A:C8	2.92	0.57
29:D1:1915:A:H5"	48:DS:84:THR:N	2.19	0.57
29:D1:2225:U:O2'	29:D1:2226:U:H5'	2.03	0.57
29:D1:2280:A:O2'	29:D1:2281:A:O5'	2.20	0.57
29:D1:2648:G:C6	29:D1:2649:A:N7	2.72	0.57
29:D1:2761:G:N2	29:D1:2795:U:N1	2.53	0.57
29:D1:2933:A:C6	29:D1:2934:A:C2	2.93	0.57
29:D1:3234:A:O2'	29:D1:3235:C:H5'	2.04	0.57
29:D1:3245:A:C2	29:D1:3246:G:H1'	2.40	0.57
29:D1:3268:A:C1'	29:D1:3269:U:P	2.92	0.57
74:D1:3502:OHX:N6	54:DY:20:GLY:CA	2.68	0.57
30:D2:74:C:C5	30:D2:75:G:C5	2.93	0.57
31:D3:71:A:C6	31:D3:87:G:C5	2.93	0.57
32:DA:155:ILE:N	32:DA:156:LYS:HA	2.19	0.57
37:DF:40:LEU:CA	37:DF:85:ILE:HA	2.35	0.57
37:DF:108:LYS:O	37:DF:109:GLU:CB	2.53	0.57
40:DI:168:ARG:O	40:DI:169:ASN:CB	2.52	0.57
72:DL:16:ARG:O	72:DL:17:ALA:HB3	2.05	0.57
43:DN:101:LYS:C	43:DN:103:ILE:H	2.13	0.57
50:DU:127:PRO:O	50:DU:130:ALA:HB3	2.05	0.57
1:A1:80:A:H2'	1:A1:80:A:N3	2.19	0.57
1:A1:88:U:C5	1:A1:89:G:N7	2.72	0.57
1:A1:168:A:H3'	1:A1:169:A:H8	1.70	0.57
1:A1:260:U:H3'	1:A1:261:U:C5'	2.35	0.57
1:A1:289:U:O2	1:A1:290:G:H8	1.88	0.57
1:A1:521:A:H2'	1:A1:521:A:N3	2.20	0.57
1:A1:607:G:H5'	1:A1:613:G:N2	2.20	0.57
1:A1:809:A:C6	1:A1:810:G:O6	2.58	0.57
1:A1:830:U:O2'	1:A1:831:U:H6	1.86	0.57
1:A1:887:A:C1'	9:AH:122:PRO:CB	2.75	0.57
1:A1:908:U:O5'	1:A1:908:U:H6	1.88	0.57
1:A1:1047:G:H2'	1:A1:1048:G:H8	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1377:U:O2	1:A1:1378:U:C4'	2.52	0.57
1:A1:1419:G:H2'	1:A1:1420:C:O4'	2.05	0.57
1:A1:1467:C:H5'	1:A1:1602:C:P	2.44	0.57
15:AN:58:LEU:O	15:AN:59:PRO:CB	2.53	0.57
21:AT:264:SER:O	21:AT:268:GLN:HA	2.05	0.57
29:B1:65:A:C8	29:B1:110:G:O6	2.57	0.57
29:B1:73:C:O5'	29:B1:74:G:OP2	2.23	0.57
29:B1:124:U:C2'	29:B1:125:C:O4'	2.45	0.57
29:B1:157:A:C2'	29:B1:158:G:C5	2.87	0.57
29:B1:244:G:C5	29:B1:245:U:O2	2.57	0.57
29:B1:359:U:C2'	29:B1:360:G:H5'	2.35	0.57
29:B1:716:A:H2'	29:B1:717:C:H1'	1.86	0.57
29:B1:739:G:C3'	29:B1:740:G:H8	2.18	0.57
29:B1:901:G:C4	29:B1:902:G:C8	2.93	0.57
29:B1:945:C:H2'	29:B1:946:U:H6	1.70	0.57
29:B1:1075:A:N1	69:Bp:246:UNK:N	2.53	0.57
29:B1:1174:G:O2'	29:B1:1175:C:H5'	2.05	0.57
29:B1:1272:C:H2'	29:B1:1273:A:O5'	2.05	0.57
29:B1:1304:A:H2	29:B1:2938:G:N3	2.03	0.57
29:B1:1388:U:N3	29:B1:1389:G:N7	2.53	0.57
29:B1:1875:G:C6	29:B1:1876:U:C4	2.92	0.57
29:B1:2161:G:C5'	29:B1:2162:U:OP2	2.41	0.57
29:B1:2210:G:C6	29:B1:2236:G:N2	2.73	0.57
29:B1:2244:A:O2'	29:B1:2245:C:H5'	2.04	0.57
29:B1:2283:G:H1'	29:B1:2284:C:H5	1.70	0.57
29:B1:2503:G:C5	29:B1:2504:U:C4	2.92	0.57
29:B1:2546:C:N4	29:B1:2547:A:N6	2.52	0.57
29:B1:2663:G:H2'	29:B1:2663:G:N3	2.18	0.57
29:B1:2673:A:OP1	42:BK:105:GLY:HA2	2.04	0.57
29:B1:3109:G:C2	29:B1:3110:C:C6	2.93	0.57
29:B1:3273:A:C8	29:B1:3275:U:C5	2.92	0.57
29:B1:3393:U:C2	29:B1:3394:U:C6	2.93	0.57
31:B3:67:U:C2'	31:B3:68:G:C8	2.88	0.57
31:B3:68:G:C5	31:B3:69:U:C5	2.93	0.57
34:BC:49:TYR:O	34:BC:51:ALA:N	2.37	0.57
35:BD:192:GLY:O	35:BD:193:LYS:C	2.48	0.57
42:BK:93:ASP:HA	42:BK:170:ASP:O	2.05	0.57
44:BO:99:ARG:O	44:BO:102:ALA:HB3	2.05	0.57
46:BQ:44:ALA:C	46:BQ:46:LYS:N	2.59	0.57
47:BR:25:TYR:O	47:BR:26:LEU:C	2.47	0.57
1:C1:63:G:O4'	1:C1:170:U:C2	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:103:A:C6	1:C1:360:A:C2	2.93	0.57
1:C1:222:A:N7	1:C1:223:U:C5	2.73	0.57
1:C1:295:A:N3	1:C1:296:U:O4'	2.38	0.57
1:C1:407:A:C5	1:C1:408:C:C5	2.93	0.57
1:C1:778:G:H2'	1:C1:779:U:H2'	1.87	0.57
1:C1:959:U:H4'	1:C1:960:U:OP2	2.03	0.57
1:C1:1585:U:N3	1:C1:1611:A:H2	2.03	0.57
3:CB:42:GLY:O	3:CB:43:ARG:C	2.47	0.57
3:CB:89:GLN:HA	3:CB:94:GLN:HA	1.87	0.57
5:CD:195:ALA:O	5:CD:198:LEU:N	2.23	0.57
6:CE:26:ALA:C	6:CE:28:LEU:H	2.13	0.57
10:CI:21:ASP:HA	10:CI:25:LEU:CB	2.35	0.57
29:D1:35:A:C6	29:D1:36:C:C5	2.93	0.57
29:D1:153:U:C3'	29:D1:158:G:H21	2.18	0.57
29:D1:185:C:H2'	29:D1:186:U:H6	1.69	0.57
29:D1:198:A:N1	29:D1:219:A:C5	2.73	0.57
29:D1:521:A:C8	29:D1:571:U:O4	2.58	0.57
29:D1:746:A:C8	29:D1:746:A:C5'	2.88	0.57
29:D1:877:C:C6	29:D1:877:C:C3'	2.88	0.57
29:D1:1225:A:H2'	29:D1:1226:G:C8	2.39	0.57
29:D1:1237:G:C2	29:D1:1252:A:H2	2.23	0.57
29:D1:1508:C:O2'	29:D1:2353:G:H1'	2.04	0.57
29:D1:1514:G:N7	29:D1:1841:A:C2	2.73	0.57
29:D1:1518:U:C2	29:D1:1519:G:C8	2.93	0.57
29:D1:1895:A:C2	29:D1:2341:A:C2	2.92	0.57
29:D1:2127:U:O4'	29:D1:2301:U:H5"	2.05	0.57
29:D1:2352:A:H2'	29:D1:2353:G:H8	1.70	0.57
29:D1:2352:A:O2'	29:D1:2353:G:H5'	2.05	0.57
29:D1:2433:U:H1'	44:DO:125:SER:CB	2.35	0.57
29:D1:2522:G:H1'	29:D1:2523:A:OP1	2.04	0.57
29:D1:2834:G:C4	29:D1:2835:U:H5	2.19	0.57
29:D1:3025:C:O2'	29:D1:3026:G:H5'	2.04	0.57
29:D1:3064:U:O2	29:D1:3065:G:C8	2.57	0.57
29:D1:3200:G:C6	29:D1:3201:C:N4	2.72	0.57
29:D1:3280:U:O2	29:D1:3281:U:C5	2.57	0.57
29:D1:3341:U:N3	29:D1:3362:A:C2	2.73	0.57
31:D3:24:G:H21	31:D3:25:G:H1'	1.70	0.57
31:D3:69:U:C4	31:D3:70:G:C8	2.93	0.57
34:DC:317:ILE:O	34:DC:318:LYS:CB	2.53	0.57
38:DG:41:ARG:C	38:DG:43:ILE:N	2.60	0.57
42:DK:133:ARG:CA	42:DK:155:THR:H	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:DM:50:VAL:CB	73:DM:88:PHE:O	2.53	0.57
46:DQ:25:SER:O	46:DQ:27:LYS:N	2.37	0.57
46:DQ:83:TRP:O	46:DQ:85:ALA:N	2.37	0.57
1:A1:26:A:H8	1:A1:26:A:OP2	1.88	0.56
1:A1:160:C:O2'	1:A1:161:U:O5'	2.23	0.56
1:A1:545:A:H2	1:A1:546:U:C2	2.23	0.56
1:A1:660:G:H22	1:A1:683:C:H41	1.52	0.56
1:A1:772:G:N7	1:A1:773:C:N4	2.53	0.56
1:A1:940:A:C2	1:A1:941:A:C4	2.93	0.56
1:A1:993:A:H2'	1:A1:994:G:C5'	2.35	0.56
1:A1:1000:C:C5	1:A1:1003:A:OP2	2.56	0.56
1:A1:1231:U:H1'	1:A1:1258:U:C4'	2.20	0.56
1:A1:1727:G:N1	1:A1:1728:A:C6	2.72	0.56
1:A1:1794:A:C6	1:A1:1796:C:N4	2.73	0.56
2:AA:88:LYS:C	2:AA:90:ALA:H	2.13	0.56
3:AB:106:ASP:C	3:AB:108:ASN:H	2.12	0.56
6:AE:82:ARG:O	6:AE:148:VAL:O	2.23	0.56
13:AL:80:LYS:C	13:AL:82:PRO:N	2.57	0.56
29:B1:53:G:H2'	29:B1:54:C:C6	2.37	0.56
29:B1:421:G:N2	29:B1:2365:C:O2	2.38	0.56
29:B1:574:U:H2'	29:B1:575:G:H5"	0.78	0.56
29:B1:637:C:C2	29:B1:638:C:C5	2.93	0.56
29:B1:649:A:C4	29:B1:650:C:C5	2.93	0.56
29:B1:809:G:C2	29:B1:810:A:C8	2.93	0.56
29:B1:841:A:C6	29:B1:853:G:C6	2.93	0.56
29:B1:849:C:C2'	29:B1:850:U:H5'	2.35	0.56
29:B1:1047:A:C2'	29:B1:1048:A:H5'	2.35	0.56
29:B1:1104:G:H2'	29:B1:1105:A:O5'	2.05	0.56
29:B1:1202:A:H2'	29:B1:1203:A:OP2	2.05	0.56
29:B1:1206:G:H2'	29:B1:1206:G:N3	2.19	0.56
29:B1:1440:G:N3	29:B1:1441:G:C8	2.73	0.56
29:B1:1558:A:H5"	29:B1:1559:A:C4'	2.35	0.56
29:B1:1568:U:H2'	29:B1:1570:U:OP2	2.05	0.56
29:B1:1604:G:H2'	29:B1:1605:A:C5'	2.35	0.56
29:B1:1675:G:N2	29:B1:1773:C:C4	2.73	0.56
29:B1:1797:A:H2'	29:B1:1798:A:C8	2.41	0.56
29:B1:1886:A:C5	29:B1:1887:A:C8	2.93	0.56
29:B1:2191:U:C4	29:B1:2192:C:C5	2.93	0.56
29:B1:2288:G:C2	29:B1:2289:U:C4	2.93	0.56
29:B1:2414:G:HO2'	29:B1:2415:C:P	2.28	0.56
29:B1:2661:G:H2'	29:B1:2662:G:H8	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2686:A:O5'	29:B1:2686:A:H8	1.88	0.56
29:B1:2725:U:N3	29:B1:2727:A:C2	2.73	0.56
29:B1:3144:G:C6	74:B1:3428:OHX:N5	2.73	0.56
29:B1:3254:G:N3	29:B1:3254:G:C2'	2.66	0.56
29:B1:3335:A:N6	29:B1:3336:A:C2	2.72	0.56
31:B3:113:U:H1'	31:B3:114:G:P	2.42	0.56
34:BC:166:ILE:O	34:BC:167:ARG:C	2.48	0.56
36:BE:227:LEU:HA	36:BE:228:ALA:C	2.29	0.56
37:BF:166:LYS:O	37:BF:170:LYS:N	2.37	0.56
37:BF:166:LYS:O	37:BF:167:ASN:C	2.48	0.56
62:Bg:15:GLY:O	62:Bg:17:ARG:N	2.37	0.56
63:Bh:37:UNK:C	63:Bh:39:UNK:N	2.63	0.56
71:Br:18:UNK:O	71:Br:19:UNK:C	2.51	0.56
1:C1:18:C:H2'	1:C1:19:A:O4'	2.04	0.56
1:C1:114:C:C4	1:C1:248:U:O4	2.58	0.56
1:C1:154:G:H5"	1:C1:155:U:OP2	2.05	0.56
1:C1:322:G:O4'	1:C1:323:A:C8	2.58	0.56
1:C1:492:A:N1	1:C1:495:C:OP2	2.38	0.56
1:C1:524:U:O2	1:C1:524:U:C3'	2.53	0.56
1:C1:605:A:C5	1:C1:606:A:N1	2.73	0.56
1:C1:1031:U:H4'	1:C1:1032:G:OP2	2.04	0.56
1:C1:1204:A:H5'	1:C1:1205:C:H5"	1.87	0.56
1:C1:1373:C:H5'	1:C1:1374:C:OP2	2.05	0.56
1:C1:1398:U:C2'	1:C1:1399:C:O5'	2.53	0.56
1:C1:1449:U:H2'	1:C1:1450:U:O5'	2.05	0.56
1:C1:1477:G:O2'	1:C1:1478:G:H5"	2.04	0.56
1:C1:1513:G:H2'	1:C1:1514:U:OP1	2.04	0.56
2:CA:13:ASP:O	2:CA:14:ALA:HB2	2.04	0.56
2:CA:219:THR:O	2:CA:220:THR:O	2.23	0.56
24:Cc:53:UNK:HA	24:Cc:63:UNK:O	2.05	0.56
29:D1:21:G:N2	31:D3:37:A:C8	2.73	0.56
29:D1:191:U:O2'	29:D1:192:C:C5'	2.52	0.56
29:D1:420:G:C8	29:D1:2385:G:C6	2.92	0.56
29:D1:422:A:H1'	29:D1:423:A:O5'	2.04	0.56
29:D1:437:G:C6	29:D1:438:A:C6	2.93	0.56
29:D1:514:G:H2'	29:D1:515:C:C6	2.40	0.56
29:D1:533:A:C6	29:D1:555:U:C6	2.93	0.56
29:D1:560:G:C2	29:D1:561:C:N3	2.73	0.56
29:D1:827:A:N3	29:D1:827:A:H2'	2.19	0.56
29:D1:963:G:C8	29:D1:963:G:H3'	2.40	0.56
29:D1:1062:A:C3'	29:D1:1063:G:C5	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1129:A:H2'	29:D1:1130:A:C5'	2.30	0.56
29:D1:1265:U:O4	29:D1:1277:C:C4	2.58	0.56
29:D1:1269:U:C4	29:D1:1271:A:C5	2.92	0.56
29:D1:1448:U:C5	29:D1:2355:G:N3	2.72	0.56
29:D1:1604:G:H2'	29:D1:1605:A:C5'	2.35	0.56
29:D1:1850:A:O2'	29:D1:1851:G:H5'	2.04	0.56
29:D1:1898:G:O2'	50:DU:21:ALA:HB2	2.05	0.56
29:D1:2204:C:O5'	29:D1:2204:C:H6	1.88	0.56
29:D1:2413:A:O2'	29:D1:2414:G:H5'	2.05	0.56
29:D1:2471:U:H5'	32:DA:22:GLU:CB	2.35	0.56
29:D1:2673:A:C2	29:D1:2674:A:C6	2.93	0.56
29:D1:2876:C:C2	29:D1:2952:G:C2	2.94	0.56
29:D1:3064:U:H2'	29:D1:3065:G:H8	1.71	0.56
30:D2:9:C:H5	30:D2:10:C:O2	1.88	0.56
30:D2:111:U:H4'	30:D2:112:G:O3'	2.05	0.56
30:D2:112:G:O5'	30:D2:113:C:OP2	2.22	0.56
30:D2:112:G:P	30:D2:113:C:P	3.03	0.56
31:D3:127:U:O2	31:D3:127:U:H2'	2.04	0.56
31:D3:130:C:H2'	31:D3:131:A:H8	1.69	0.56
34:DC:4:ARG:HA	34:DC:6:TYR:O	2.05	0.56
34:DC:229:VAL:HA	34:DC:232:ARG:CB	2.36	0.56
44:DO:84:PRO:HA	74:DO:301:OHX:N3	2.20	0.56
1:A1:129:U:H5	1:A1:264:G:C6	2.14	0.56
1:A1:289:U:H2'	1:A1:290:G:H5"	1.87	0.56
1:A1:900:A:H4'	1:A1:916:U:H1'	1.88	0.56
1:A1:1153:G:H2'	1:A1:1154:G:O4'	2.06	0.56
1:A1:1218:G:O6	1:A1:1444:A:H8	1.88	0.56
1:A1:1346:A:H3'	1:A1:1347:U:C6	2.37	0.56
1:A1:1475:A:C6	1:A1:1476:C:C4	2.94	0.56
1:A1:1522:U:C2'	1:A1:1523:G:O5'	2.53	0.56
1:A1:1570:A:H2'	1:A1:1570:A:N3	2.20	0.56
1:A1:1662:G:O2'	1:A1:1663:G:H5'	2.04	0.56
2:AA:19:ALA:O	2:AA:20:ALA:C	2.48	0.56
4:AC:98:ALA:O	4:AC:100:ALA:N	2.38	0.56
13:AL:76:PRO:CA	13:AL:81:ILE:H	2.18	0.56
26:Ae:12:UNK:O	26:Ae:13:UNK:C	2.51	0.56
28:Ah:59:UNK:CB	29:B1:3352:U:C4	2.88	0.56
29:B1:67:A:N3	29:B1:317:A:C8	2.73	0.56
29:B1:210:U:OP2	29:B1:210:U:C5	2.57	0.56
29:B1:425:G:O6	29:B1:635:G:C6	2.57	0.56
29:B1:518:G:H1	29:B1:572:A:N6	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:547:G:C3'	29:B1:548:G:H5'	2.36	0.56
29:B1:571:U:O2'	29:B1:572:A:H5'	2.05	0.56
29:B1:629:U:H2'	29:B1:630:A:C8	2.40	0.56
29:B1:810:A:N3	29:B1:810:A:H2'	2.20	0.56
29:B1:832:G:C2	29:B1:863:C:C2	2.94	0.56
29:B1:866:A:H5'	29:B1:867:G:OP2	2.05	0.56
29:B1:1004:U:N3	29:B1:1005:G:N7	2.53	0.56
29:B1:1026:A:H4'	29:B1:1027:A:OP2	2.01	0.56
29:B1:1197:A:C8	29:B1:1197:A:C5'	2.88	0.56
29:B1:1463:U:C5	29:B1:1464:G:N7	2.72	0.56
29:B1:1465:A:N6	29:B1:1466:G:C2	2.74	0.56
29:B1:1489:A:H2'	29:B1:1489:A:N3	2.20	0.56
29:B1:1503:A:C3'	29:B1:1504:A:C5'	2.68	0.56
29:B1:1595:U:O2'	29:B1:1596:C:H6	1.88	0.56
29:B1:1607:U:HO2'	29:B1:1608:C:P	2.28	0.56
29:B1:1851:G:O5'	29:B1:1851:G:H8	1.88	0.56
29:B1:1908:A:N7	29:B1:1909:A:N7	2.54	0.56
29:B1:2221:G:C8	29:B1:2221:G:C3'	2.88	0.56
29:B1:2246:G:N3	29:B1:2247:G:C8	2.73	0.56
29:B1:2260:U:H3'	29:B1:2261:G:C8	2.39	0.56
29:B1:2520:A:N3	29:B1:2521:U:O2	2.38	0.56
29:B1:2689:A:O2'	29:B1:2702:A:N6	2.38	0.56
29:B1:2931:C:O2	29:B1:2935:U:C4	2.58	0.56
29:B1:2950:G:H22	29:B1:2979:U:H2'	1.69	0.56
29:B1:3139:A:H2'	29:B1:3140:G:C8	2.41	0.56
29:B1:3172:A:O4'	29:B1:3172:A:OP1	2.22	0.56
29:B1:3296:A:C2	29:B1:3297:U:C6	2.92	0.56
29:B1:3296:A:C4	29:B1:3297:U:C6	2.93	0.56
30:B2:5:G:C3'	30:B2:6:C:H5"	2.34	0.56
31:B3:3:A:H3'	31:B3:3:A:C8	2.40	0.56
31:B3:69:U:H2'	31:B3:70:G:H1'	1.86	0.56
31:B3:80:A:H2'	31:B3:81:U:C6	2.40	0.56
33:BB:102:LEU:C	33:BB:104:LEU:H	2.13	0.56
33:BB:186:PHE:O	33:BB:187:HIS:C	2.48	0.56
36:BE:43:LYS:HA	49:BT:70:SER:N	2.20	0.56
38:BG:224:ILE:C	38:BG:226:GLY:N	2.62	0.56
41:BJ:184:LYS:C	41:BJ:186:GLU:N	2.62	0.56
43:BN:23:ILE:O	43:BN:32:LEU:CA	2.53	0.56
43:BN:101:LYS:C	43:BN:103:ILE:H	2.11	0.56
44:BO:85:THR:CA	44:BO:87:GLN:N	2.67	0.56
44:BO:183:THR:CB	44:BO:185:ALA:HB3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:7:SER:O	51:BV:9:SER:N	2.38	0.56
55:BZ:75:ASN:HA	55:BZ:86:ARG:CB	2.34	0.56
58:Bc:62:GLN:O	58:Bc:65:ALA:HB3	2.05	0.56
67:Bm:11:UNK:O	67:Bm:14:UNK:N	2.39	0.56
1:C1:17:C:C2	1:C1:18:C:C6	2.93	0.56
1:C1:126:A:N6	1:C1:292:U:C2	2.73	0.56
1:C1:166:C:C3'	1:C1:167:U:H5"	2.34	0.56
1:C1:527:A:P	1:C1:528:U:H5'	2.44	0.56
1:C1:639:U:OP1	23:Cb:72:UNK:HA	2.05	0.56
1:C1:720:G:C2'	1:C1:721:U:H5"	2.34	0.56
1:C1:816:G:N7	1:C1:817:A:C4	2.71	0.56
1:C1:872:G:C2	1:C1:873:U:H1'	2.40	0.56
1:C1:1028:C:C4	1:C1:1030:A:H1'	2.41	0.56
1:C1:1100:G:N3	1:C1:1100:G:O4'	2.36	0.56
1:C1:1120:U:C2	1:C1:1121:C:C5	2.93	0.56
1:C1:1186:U:OP1	1:C1:1456:C:H1'	2.05	0.56
1:C1:1218:G:O6	1:C1:1444:A:H8	1.88	0.56
1:C1:1466:G:H2'	1:C1:1467:C:C6	2.40	0.56
1:C1:1483:A:C8	1:C1:1524:A:N7	2.73	0.56
1:C1:1591:C:O2'	1:C1:1592:A:P	2.63	0.56
1:C1:1644:C:C2'	1:C1:1645:G:O5'	2.53	0.56
1:C1:1662:G:O2'	1:C1:1663:G:H5'	2.05	0.56
1:C1:1683:C:C6	1:C1:1719:A:N6	2.73	0.56
1:C1:1714:A:C6	1:C1:1715:G:C2	2.94	0.56
74:C1:1924:OHX:N6	74:C1:1964:OHX:N5	2.53	0.56
4:CC:11:LEU:O	4:CC:14:ASP:N	2.36	0.56
8:CG:83:GLU:O	8:CG:84:ILE:CB	2.52	0.56
20:CS:47:ALA:O	20:CS:48:ASN:CB	2.53	0.56
24:Cc:1:UNK:N	24:Cc:74:UNK:CA	2.60	0.56
25:Cd:92:UNK:C	25:Cd:94:UNK:N	2.68	0.56
29:D1:197:G:H2'	29:D1:198:A:H8	1.69	0.56
29:D1:219:A:H2	29:D1:1390:A:C2'	2.18	0.56
29:D1:246:U:P	29:D1:247:C:H5"	2.45	0.56
29:D1:337:G:N2	31:D3:27:U:C2	2.73	0.56
29:D1:514:G:H3'	29:D1:515:C:C5	2.40	0.56
29:D1:683:U:C2'	29:D1:684:G:H5'	2.35	0.56
29:D1:707:U:H4'	29:D1:782:U:O2	2.05	0.56
29:D1:716:A:H2'	29:D1:717:C:H1'	1.86	0.56
29:D1:716:A:H3'	29:D1:716:A:H8	1.70	0.56
29:D1:783:A:N6	74:D1:3537:OHX:N4	2.53	0.56
29:D1:877:C:H3'	29:D1:877:C:C6	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1004:U:C4	29:D1:1005:G:N7	2.74	0.56
29:D1:1130:A:C8	29:D1:1132:C:C5	2.94	0.56
29:D1:1212:A:N1	29:D1:1294:A:C2	2.73	0.56
29:D1:1221:A:H4'	29:D1:1222:G:OP1	2.05	0.56
29:D1:1286:A:H8	29:D1:1286:A:O5'	1.87	0.56
29:D1:1444:G:H8	29:D1:1444:G:O5'	1.88	0.56
29:D1:1730:G:O6	55:DZ:27:TYR:N	2.38	0.56
29:D1:1780:G:C2	29:D1:1781:C:C5	2.92	0.56
29:D1:2124:G:N2	29:D1:2330:C:C2	2.73	0.56
29:D1:2128:C:C5	29:D1:2129:U:C5	2.93	0.56
29:D1:2288:G:N3	29:D1:2289:U:C5	2.73	0.56
29:D1:2326:A:C5	29:D1:2327:U:C5	2.93	0.56
29:D1:2378:C:C2	29:D1:2379:U:C5	2.93	0.56
29:D1:2422:C:C2'	29:D1:2423:U:O5'	2.54	0.56
29:D1:2651:G:O2'	29:D1:2796:G:N1	2.32	0.56
29:D1:2684:C:C2	29:D1:2685:C:C5	2.93	0.56
29:D1:3107:U:H2'	29:D1:3108:G:C8	2.39	0.56
29:D1:3161:C:C6	29:D1:3161:C:OP2	2.58	0.56
30:D2:38:U:C2'	30:D2:40:C:H5"	2.35	0.56
30:D2:48:U:C5	30:D2:49:G:O6	2.58	0.56
30:D2:120:C:N3	30:D2:121:U:O4	2.37	0.56
31:D3:75:G:P	31:D3:90:U:H5'	2.45	0.56
34:DC:91:GLY:HA3	34:DC:158:VAL:CB	2.35	0.56
36:DE:264:GLN:HA	36:DE:266:ALA:N	2.20	0.56
37:DF:166:LYS:O	37:DF:167:ASN:C	2.49	0.56
47:DR:60:PRO:O	47:DR:61:PRO:CB	2.52	0.56
54:DY:35:ALA:O	54:DY:36:GLY:C	2.47	0.56
54:DY:35:ALA:O	54:DY:37:GLY:N	2.39	0.56
1:A1:15:U:O4'	1:A1:619:A:N1	2.38	0.56
1:A1:63:G:H2'	1:A1:64:U:O4'	2.04	0.56
1:A1:97:C:O4'	1:A1:426:G:H4'	2.06	0.56
1:A1:284:G:H8	25:Ad:114:UNK:C	2.16	0.56
1:A1:445:A:N6	1:A1:461:G:N2	2.53	0.56
1:A1:448:C:C2	1:A1:449:C:C5	2.93	0.56
1:A1:521:A:C2	1:A1:523:G:C6	2.94	0.56
1:A1:553:G:C5	1:A1:554:C:C4	2.93	0.56
1:A1:587:C:H2'	1:A1:588:U:C6	2.40	0.56
1:A1:618:U:C2'	1:A1:619:A:C5'	2.83	0.56
1:A1:635:A:OP1	1:A1:636:A:OP2	2.23	0.56
1:A1:747:C:H2'	1:A1:748:U:C6	2.40	0.56
1:A1:757:A:C5	1:A1:758:U:C6	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:829:A:O2'	1:A1:830:U:P	2.63	0.56
1:A1:908:U:C5	1:A1:909:U:C6	2.94	0.56
1:A1:940:A:H2'	1:A1:941:A:H8	1.70	0.56
1:A1:1054:U:H2'	1:A1:1055:U:H6	1.70	0.56
1:A1:1085:G:N2	1:A1:1089:U:C2	2.73	0.56
1:A1:1116:A:H1'	1:A1:1131:A:N6	2.21	0.56
1:A1:1168:U:H2'	1:A1:1169:G:H5'	1.88	0.56
1:A1:1245:G:C5	1:A1:1246:C:C5	2.93	0.56
1:A1:1338:C:H1'	1:A1:1410:A:C4	2.40	0.56
1:A1:1354:G:N3	1:A1:1354:G:H2'	2.20	0.56
1:A1:1371:A:N1	1:A1:1372:U:C4	2.74	0.56
1:A1:1431:C:H3'	1:A1:1432:U:C5'	2.34	0.56
1:A1:1756:A:N6	74:A1:1901:OHX:N6	2.53	0.56
2:AA:52:LYS:C	2:AA:54:TRP:N	2.62	0.56
4:AC:15:GLY:HA2	20:AS:49:ASP:O	2.06	0.56
8:AG:81:ALA:O	8:AG:82:PRO:CB	2.54	0.56
11:AJ:35:PRO:C	11:AJ:37:THR:N	2.64	0.56
13:AL:78:HIS:O	13:AL:79:TYR:C	2.49	0.56
15:AN:12:GLN:C	15:AN:14:GLN:H	2.10	0.56
18:AQ:36:ALA:HB3	18:AQ:37:GLN:HA	1.86	0.56
20:AS:41:GLN:CB	74:AS:101:OHX:N3	2.68	0.56
25:Ad:105:UNK:C	25:Ad:107:UNK:N	2.66	0.56
29:B1:116:A:H4'	29:B1:117:U:OP1	2.05	0.56
29:B1:206:G:C6	29:B1:207:U:C4	2.93	0.56
29:B1:360:G:O2'	29:B1:361:A:H5'	2.04	0.56
29:B1:385:A:H2'	29:B1:386:A:H8	1.70	0.56
29:B1:748:U:O2	29:B1:748:U:C2'	2.53	0.56
29:B1:911:C:O2	29:B1:911:C:C2'	2.53	0.56
29:B1:1035:G:C2'	29:B1:1036:A:H5'	2.35	0.56
29:B1:1198:C:C6	29:B1:1200:A:H8	2.21	0.56
29:B1:1384:U:OP1	35:BD:205:PRO:N	2.38	0.56
29:B1:1455:U:O4	29:B1:3077:A:OP2	2.23	0.56
29:B1:1488:G:H5'	29:B1:1838:G:O6	2.05	0.56
29:B1:1489:A:H3'	29:B1:1490:A:H8	1.69	0.56
29:B1:1596:C:H2'	29:B1:1597:C:H6	1.68	0.56
29:B1:1662:G:H2'	29:B1:1663:C:C6	2.41	0.56
29:B1:1715:A:N6	29:B1:1716:U:C5	2.66	0.56
29:B1:1838:G:C5'	29:B1:1839:A:OP1	2.49	0.56
29:B1:1857:C:OP2	29:B1:1857:C:C6	2.58	0.56
29:B1:1860:G:H2'	29:B1:1861:G:H8	1.71	0.56
29:B1:1946:A:H5"	29:B1:1947:G:OP2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2114:C:H5”	29:B1:2116:G:C8	2.40	0.56
29:B1:2174:G:C8	29:B1:2174:G:OP1	2.59	0.56
29:B1:2265:C:N4	29:B1:2266:U:N3	2.53	0.56
29:B1:2269:U:N3	29:B1:2272:G:N1	2.45	0.56
29:B1:2327:U:H5”	29:B1:2328:U:OP2	2.05	0.56
29:B1:2403:G:C4’	29:B1:2404:A:OP1	2.53	0.56
29:B1:2430:A:O2’	29:B1:2431:C:H5’	2.05	0.56
29:B1:2513:U:H5	29:B1:2591:A:C6	2.24	0.56
29:B1:2568:C:C2’	29:B1:2569:A:H4’	2.34	0.56
29:B1:2609:A:H2’	29:B1:2610:G:C8	2.40	0.56
29:B1:2678:A:OP2	29:B1:2678:A:H4’	2.05	0.56
29:B1:2931:C:H2’	29:B1:2932:U:H6	1.71	0.56
29:B1:2980:U:H2’	29:B1:2981:U:H5’	1.87	0.56
29:B1:3066:U:H2’	29:B1:3067:C:C6	2.40	0.56
29:B1:3097:C:H2’	29:B1:3098:G:C8	2.36	0.56
29:B1:3135:U:C4	29:B1:3136:G:C6	2.93	0.56
29:B1:3183:A:H2	29:B1:3188:G:O3’	1.88	0.56
29:B1:3214:U:O3’	29:B1:3218:A:H5”	2.06	0.56
29:B1:3218:A:O2’	29:B1:3219:G:C3’	2.46	0.56
29:B1:3264:G:H3’	29:B1:3265:C:H5”	1.87	0.56
29:B1:3309:G:N7	29:B1:3310:A:H1’	2.20	0.56
30:B2:62:U:H2’	30:B2:62:U:O2	2.05	0.56
30:B2:66:A:H8	30:B2:66:A:O5’	1.87	0.56
31:B3:4:C:C2’	31:B3:5:U:H5’	2.35	0.56
31:B3:29:U:C2	31:B3:30:C:C5	2.93	0.56
31:B3:124:G:H4’	31:B3:124:G:OP1	2.04	0.56
31:B3:131:A:HO2’	31:B3:132:G:P	2.29	0.56
31:B3:150:G:H2’	31:B3:152:G:OP2	2.04	0.56
34:BC:58:ARG:O	34:BC:71:GLU:O	2.23	0.56
34:BC:68:HIS:O	34:BC:70:ARG:N	2.38	0.56
35:BD:181:VAL:O	35:BD:182:LEU:CB	2.53	0.56
41:BJ:66:GLU:O	41:BJ:67:ALA:C	2.49	0.56
44:BO:49:ARG:O	44:BO:50:ARG:C	2.47	0.56
44:BO:83:LYS:CB	44:BO:84:PRO:CB	2.84	0.56
45:BP:25:LYS:O	45:BP:27:LEU:N	2.37	0.56
47:BR:116:LYS:O	47:BR:117:ALA:C	2.48	0.56
54:BY:131:SER:CB	54:BY:134:ALA:HB2	2.35	0.56
56:Ba:63:GLY:O	56:Ba:65:LYS:N	2.39	0.56
58:Bc:52:ALA:O	58:Bc:53:CYS:C	2.48	0.56
59:Bd:68:LYS:O	59:Bd:72:ARG:CB	2.54	0.56
1:C1:66:U:C4	1:C1:71:A:N6	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:112:A:O2'	1:C1:113:U:H6	1.89	0.56
1:C1:129:U:C6	1:C1:264:G:O6	2.59	0.56
1:C1:208:U:H2'	1:C1:209:U:C6	2.39	0.56
1:C1:248:U:H1'	1:C1:249:U:H5"	1.87	0.56
1:C1:295:A:C2	1:C1:296:U:O2	2.58	0.56
1:C1:363:G:C2	1:C1:364:G:H1'	2.40	0.56
1:C1:511:A:C4'	1:C1:512:A:OP2	2.52	0.56
1:C1:567:A:OP2	17:CP:67:ALA:HB1	2.05	0.56
1:C1:570:A:H61	17:CP:116:ASP:CB	2.19	0.56
1:C1:648:G:O2'	1:C1:649:U:O5'	2.24	0.56
1:C1:725:U:O2'	1:C1:726:C:O4'	2.24	0.56
1:C1:733:A:C2	1:C1:734:A:C6	2.93	0.56
1:C1:812:A:N6	1:C1:859:A:C8	2.72	0.56
1:C1:824:G:C6	1:C1:850:A:N3	2.74	0.56
1:C1:827:C:H4'	1:C1:828:U:OP1	2.05	0.56
1:C1:841:U:H2'	1:C1:842:C:O4'	2.06	0.56
1:C1:845:G:O6	74:C1:1917:OHX:N1	2.38	0.56
1:C1:930:A:H3'	1:C1:931:C:H6	1.70	0.56
1:C1:989:U:C2'	1:C1:990:C:H6	2.16	0.56
1:C1:1032:G:C4	1:C1:1033:C:C5	2.93	0.56
1:C1:1201:G:C5	1:C1:1202:A:O4'	2.58	0.56
1:C1:1202:A:N6	1:C1:1457:C:OP1	2.39	0.56
1:C1:1204:A:C5	1:C1:1205:C:N3	2.74	0.56
1:C1:1237:G:C4	1:C1:1238:A:C8	2.92	0.56
1:C1:1348:A:C2	1:C1:1378:U:H6	2.24	0.56
1:C1:1391:A:H2'	1:C1:1392:U:H6	1.67	0.56
1:C1:1478:G:H2'	1:C1:1479:A:O4'	2.05	0.56
1:C1:1575:G:N3	1:C1:1575:G:C2'	2.65	0.56
1:C1:1584:G:C4	1:C1:1584:G:H3'	2.40	0.56
1:C1:1608:U:H2'	1:C1:1609:U:H5"	1.87	0.56
1:C1:1652:C:O2	1:C1:1652:C:H2'	2.04	0.56
1:C1:1682:U:C2	1:C1:1683:C:C4	2.93	0.56
1:C1:1707:A:H2'	1:C1:1708:U:C2	2.40	0.56
3:CB:163:GLY:HA3	3:CB:203:LYS:N	2.20	0.56
4:CC:69:LEU:O	4:CC:72:LEU:N	2.38	0.56
5:CD:132:VAL:O	5:CD:136:ALA:HB2	2.05	0.56
5:CD:215:ASP:O	5:CD:218:GLU:N	2.34	0.56
6:CE:100:LYS:O	6:CE:104:PHE:N	2.37	0.56
10:CI:124:THR:O	10:CI:125:PRO:CB	2.54	0.56
11:CJ:127:LYS:HA	11:CJ:134:ALA:H	1.71	0.56
16:CO:39:GLN:O	16:CO:40:VAL:C	2.49	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CP:58:GLY:HA2	17:CP:71:CYS:H	1.70	0.56
28:Ch:1:UNK:O	28:Ch:3:UNK:N	2.38	0.56
28:Ch:8:UNK:O	28:Ch:9:UNK:O	2.22	0.56
28:Ch:18:UNK:O	28:Ch:19:UNK:C	2.52	0.56
29:D1:64:G:HO2'	29:D1:77:A:H1'	1.68	0.56
29:D1:80:G:C2	29:D1:81:C:C6	2.93	0.56
29:D1:111:C:H2'	29:D1:111:C:O2	2.05	0.56
29:D1:121:A:H4'	29:D1:150:A:C2	2.39	0.56
29:D1:206:G:C6	29:D1:207:U:C4	2.94	0.56
29:D1:284:A:C2	29:D1:306:A:N9	2.73	0.56
29:D1:398:A:H2	29:D1:1415:U:H5"	1.70	0.56
29:D1:424:G:N1	29:D1:635:G:N2	2.53	0.56
29:D1:504:A:H8	29:D1:504:A:C3'	2.05	0.56
29:D1:519:A:H62	37:DF:30:LEU:CA	2.18	0.56
29:D1:577:C:H6	29:D1:577:C:C3'	2.18	0.56
29:D1:583:G:C2	29:D1:584:G:C8	2.93	0.56
29:D1:606:C:N3	29:D1:607:A:C6	2.74	0.56
29:D1:717:C:C5'	29:D1:719:U:O4'	2.53	0.56
29:D1:776:U:O5'	29:D1:777:U:OP2	2.23	0.56
29:D1:965:A:OP1	74:D1:3568:OHX:N4	2.38	0.56
29:D1:998:A:C2'	29:D1:999:G:H5'	2.35	0.56
29:D1:1049:C:O2'	29:D1:1050:U:H5'	2.04	0.56
29:D1:1113:G:C6	29:D1:1114:U:N3	2.73	0.56
29:D1:1131:G:N3	29:D1:2373:A:C2	2.73	0.56
29:D1:1143:A:H1'	29:D1:1368:U:C5	2.40	0.56
29:D1:1289:G:C4	29:D1:1290:A:C8	2.93	0.56
29:D1:1345:G:N7	74:D1:3480:OHX:N2	2.53	0.56
29:D1:1427:U:O2'	29:D1:1428:A:H5'	2.05	0.56
29:D1:1517:G:C4	29:D1:1518:U:C5	2.94	0.56
29:D1:1593:A:C2'	29:D1:1594:A:H8	2.15	0.56
29:D1:1595:U:O2'	29:D1:1596:C:H6	1.89	0.56
29:D1:1610:G:C6	29:D1:1611:G:C6	2.93	0.56
29:D1:1654:A:H2'	29:D1:1655:G:O4'	2.05	0.56
29:D1:1695:U:C2	29:D1:1749:A:C2	2.93	0.56
29:D1:1704:A:N6	29:D1:1739:U:C4	2.73	0.56
29:D1:1806:A:C2	29:D1:1807:G:H1'	2.40	0.56
29:D1:1841:A:C2	29:D1:1848:G:N7	2.73	0.56
29:D1:1852:G:C4	29:D1:1853:U:C5	2.92	0.56
29:D1:2120:A:O2'	29:D1:2121:G:P	2.59	0.56
29:D1:2130:G:H5"	29:D1:2131:A:OP2	2.04	0.56
29:D1:2149:A:C8	29:D1:2149:A:C3'	2.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2160:G:H2'	29:D1:2161:G:C8	2.40	0.56
29:D1:2269:U:O2	29:D1:2269:U:C2'	2.52	0.56
29:D1:2284:C:N3	29:D1:2308:C:O4'	2.38	0.56
29:D1:2296:A:C2	29:D1:2919:A:H1'	2.41	0.56
29:D1:2419:A:C4	29:D1:2804:A:C8	2.94	0.56
29:D1:2580:A:C1'	29:D1:2581:U:OP2	2.53	0.56
29:D1:2602:G:C4	29:D1:2603:G:C8	2.93	0.56
29:D1:2640:A:C8	29:D1:2641:U:C5	2.92	0.56
29:D1:2696:A:N7	29:D1:2697:A:N7	2.53	0.56
29:D1:3026:G:C2	29:D1:3030:G:C6	2.93	0.56
29:D1:3136:G:C4	29:D1:3137:C:C5	2.93	0.56
29:D1:3210:A:C2'	29:D1:3211:C:C6	2.88	0.56
29:D1:3331:U:C6	29:D1:3331:U:C5'	2.87	0.56
30:D2:14:U:H2'	30:D2:15:C:O4'	2.06	0.56
30:D2:68:C:O2'	30:D2:69:C:C4'	2.53	0.56
30:D2:79:A:H1'	30:D2:102:A:N6	2.20	0.56
30:D2:100:C:H5'	30:D2:101:G:OP2	2.04	0.56
31:D3:3:A:H2'	31:D3:4:C:H5'	1.87	0.56
31:D3:11:C:H2'	31:D3:12:A:O4'	2.06	0.56
31:D3:69:U:H2'	31:D3:70:G:H1'	1.85	0.56
31:D3:97:A:C2'	31:D3:98:U:H5'	2.36	0.56
31:D3:107:G:C2'	31:D3:108:C:H5'	2.35	0.56
35:DD:66:GLY:O	35:DD:67:THR:C	2.48	0.56
35:DD:180:LYS:O	35:DD:182:LEU:N	2.38	0.56
36:DE:118:THR:C	36:DE:120:LYS:H	2.14	0.56
36:DE:141:PRO:CA	36:DE:143:LYS:H	2.18	0.56
36:DE:271:LYS:C	36:DE:275:THR:HA	2.31	0.56
41:DJ:170:LYS:H	41:DJ:177:ASP:C	2.13	0.56
43:DN:63:VAL:O	43:DN:64:VAL:CB	2.52	0.56
47:DR:19:PRO:O	47:DR:20:LYS:CB	2.52	0.56
47:DR:43:PRO:C	47:DR:45:ASN:H	2.14	0.56
49:DT:28:SER:O	49:DT:30:TYR:N	2.39	0.56
55:DZ:75:ASN:HA	55:DZ:86:ARG:CB	2.36	0.56
56:Da:63:GLY:O	56:Da:65:LYS:N	2.39	0.56
65:Dk:6:UNK:O	65:Dk:8:UNK:N	2.37	0.56
1:A1:243:G:N3	1:A1:251:A:C2	2.72	0.56
1:A1:265:A:N7	1:A1:290:G:N2	2.53	0.56
1:A1:380:U:H2'	1:A1:381:C:C5	2.40	0.56
1:A1:518:A:N6	1:A1:535:A:C4	2.73	0.56
1:A1:524:U:C4	1:A1:527:A:C5	2.93	0.56
1:A1:541:A:C8	1:A1:541:A:OP2	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:581:U:H2'	1:A1:581:U:O2	2.05	0.56
1:A1:703:G:H1'	1:A1:736:C:N4	2.19	0.56
1:A1:728:U:H2'	1:A1:729:G:H8	1.70	0.56
1:A1:1133:A:C2	1:A1:1134:C:H1'	2.39	0.56
1:A1:1263:G:C6	1:A1:1264:G:C4	2.92	0.56
1:A1:1295:G:H1'	1:A1:1321:A:C2	2.40	0.56
1:A1:1483:A:H61	1:A1:1591:C:H1'	1.71	0.56
1:A1:1553:G:H5"	1:A1:1554:U:OP2	2.05	0.56
1:A1:1608:U:H2'	1:A1:1609:U:H5"	1.88	0.56
1:A1:1622:G:C6	1:A1:1623:C:C4	2.93	0.56
1:A1:1714:A:C6	1:A1:1715:G:C2	2.93	0.56
1:A1:1750:A:C6	1:A1:1751:C:C4	2.93	0.56
1:A1:1779:U:O2'	1:A1:1780:G:P	2.63	0.56
1:A1:1788:G:OP2	1:A1:1788:G:C8	2.57	0.56
3:AB:213:ALA:O	3:AB:215:PHE:N	2.37	0.56
8:AG:46:THR:O	8:AG:47:PRO:CB	2.53	0.56
8:AG:88:LEU:O	8:AG:90:TYR:N	2.39	0.56
29:B1:49:A:C6	29:B1:279:U:H4'	2.40	0.56
29:B1:116:A:N1	29:B1:265:A:OP2	2.37	0.56
29:B1:287:G:O2'	29:B1:288:C:C5'	2.53	0.56
29:B1:405:U:H5	29:B1:406:G:C8	2.24	0.56
29:B1:564:G:C2'	29:B1:565:U:C6	2.89	0.56
29:B1:575:G:C5'	29:B1:575:G:C8	2.74	0.56
29:B1:593:C:N4	29:B1:594:U:O2'	2.38	0.56
29:B1:712:G:H2'	29:B1:713:U:C6	2.41	0.56
29:B1:777:U:O2'	29:B1:778:U:O5'	2.21	0.56
29:B1:910:G:H3'	29:B1:911:C:H6	1.69	0.56
29:B1:959:C:N4	29:B1:2801:A:C8	2.73	0.56
29:B1:1081:U:H2'	29:B1:1082:U:OP1	2.06	0.56
29:B1:1528:G:N1	29:B1:1833:G:C6	2.73	0.56
29:B1:1628:C:HO2'	29:B1:1630:U:H5'	1.70	0.56
29:B1:1654:A:H2'	29:B1:1655:G:O4'	2.05	0.56
29:B1:1907:C:H2'	29:B1:1908:A:H5'	1.86	0.56
29:B1:2144:A:C6	29:B1:2281:A:C2	2.94	0.56
29:B1:2186:U:C2'	29:B1:2187:G:O5'	2.53	0.56
29:B1:2260:U:C2'	29:B1:2261:G:C8	2.89	0.56
29:B1:2349:U:C4	29:B1:2350:C:N4	2.73	0.56
29:B1:2465:G:C2'	29:B1:2466:G:H8	2.16	0.56
29:B1:2572:C:OP2	74:B1:3558:OHX:N6	2.38	0.56
29:B1:2607:G:C4	29:B1:2608:G:C8	2.93	0.56
29:B1:2714:G:N2	29:B1:2751:G:C4	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3096:C:O2'	29:B1:3097:C:H5'	2.06	0.56
29:B1:3180:A:OP1	29:B1:3180:A:C4'	2.52	0.56
29:B1:3187:A:N1	29:B1:3188:G:C5	2.74	0.56
29:B1:3226:A:O2'	29:B1:3227:A:H5'	2.06	0.56
29:B1:3308:C:C6	29:B1:3308:C:C3'	2.89	0.56
30:B2:2:G:C4	30:B2:3:U:C5	2.92	0.56
31:B3:69:U:H2'	31:B3:70:G:O2'	2.06	0.56
32:BA:4:ILE:O	32:BA:5:THR:C	2.48	0.56
34:BC:76:VAL:HA	34:BC:325:LYS:HA	1.88	0.56
41:BJ:17:TYR:C	41:BJ:19:LYS:H	2.12	0.56
42:BK:50:ALA:C	42:BK:62:ASN:HA	2.31	0.56
49:BT:100:LYS:C	49:BT:102:ARG:N	2.62	0.56
54:BY:35:ALA:O	54:BY:37:GLY:N	2.38	0.56
62:Bg:79:VAL:O	62:Bg:80:ARG:C	2.47	0.56
1:C1:137:U:H4'	1:C1:138:A:OP2	2.04	0.56
1:C1:218:A:C6	1:C1:844:A:H1'	2.40	0.56
1:C1:342:C:H2'	1:C1:342:C:O2	2.05	0.56
1:C1:492:A:N3	1:C1:494:U:H6	2.03	0.56
1:C1:641:G:C2	1:C1:642:G:C5	2.94	0.56
1:C1:756:A:C4	1:C1:757:A:C8	2.94	0.56
1:C1:866:G:N2	1:C1:965:U:C5	2.73	0.56
1:C1:1116:A:C6	1:C1:1131:A:C8	2.94	0.56
1:C1:1184:A:H1'	1:C1:1210:C:H1'	1.87	0.56
1:C1:1358:G:N1	1:C1:1359:C:N4	2.53	0.56
1:C1:1538:U:H3'	1:C1:1538:U:C6	2.40	0.56
1:C1:1590:G:C6	1:C1:1591:C:N4	2.74	0.56
1:C1:1600:A:C2'	1:C1:1602:C:H41	2.18	0.56
1:C1:1633:A:C4'	1:C1:1634:C:OP2	2.53	0.56
1:C1:1728:A:C4	1:C1:1729:C:C5	2.94	0.56
2:CA:176:LEU:O	2:CA:177:LEU:C	2.47	0.56
4:CC:14:ASP:O	4:CC:16:VAL:N	2.39	0.56
9:CH:60:ALA:O	9:CH:63:ALA:CB	2.53	0.56
14:CM:67:MET:HA	14:CM:70:GLN:O	2.05	0.56
20:CS:38:ILE:O	20:CS:40:ARG:N	2.39	0.56
21:CT:244:ALA:O	21:CT:253:ALA:O	2.23	0.56
29:D1:97:U:H2'	29:D1:97:U:O2	2.05	0.56
29:D1:137:G:C8	29:D1:137:G:C3'	2.89	0.56
29:D1:522:A:N7	29:D1:523:A:H8	2.02	0.56
29:D1:606:C:C4	29:D1:607:A:C5	2.94	0.56
29:D1:706:A:C2'	29:D1:707:U:H5'	2.35	0.56
29:D1:938:C:C2'	29:D1:939:U:H5"	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:947:G:C4	29:D1:948:C:C5	2.94	0.56
29:D1:1329:U:O5'	29:D1:1329:U:H6	1.87	0.56
29:D1:1376:C:H5'	29:D1:1407:A:N1	2.21	0.56
29:D1:1522:U:C5	29:D1:1835:A:C1'	2.88	0.56
29:D1:1693:C:H5"	29:D1:1694:U:H5'	1.88	0.56
29:D1:1781:C:H2'	29:D1:1782:U:H5'	1.86	0.56
29:D1:2295:A:C6	29:D1:2296:A:C6	2.92	0.56
29:D1:2370:G:N7	29:D1:2371:G:N7	2.53	0.56
29:D1:2423:U:H2'	29:D1:2424:A:H8	1.65	0.56
29:D1:2682:C:OP1	42:DK:50:ALA:CA	2.53	0.56
29:D1:2844:C:H42	29:D1:2898:G:H22	1.53	0.56
29:D1:2868:U:C4	29:D1:2869:U:H5	2.23	0.56
29:D1:2889:C:C2'	29:D1:2890:A:H5'	2.35	0.56
29:D1:2986:U:N3	29:D1:2987:A:N7	2.53	0.56
29:D1:3020:U:H2'	29:D1:3021:A:C8	2.41	0.56
29:D1:3107:U:C2'	29:D1:3108:G:H5'	2.35	0.56
29:D1:3197:G:C2'	29:D1:3198:U:OP1	2.54	0.56
29:D1:3201:C:H6	29:D1:3201:C:OP2	1.88	0.56
29:D1:3213:A:C8	29:D1:3213:A:H3'	2.40	0.56
29:D1:3309:G:H2'	29:D1:3310:A:O4'	2.05	0.56
31:D3:4:C:O2'	31:D3:5:U:H5'	2.05	0.56
31:D3:35:C:O2'	31:D3:36:G:H5'	2.05	0.56
31:D3:55:U:O2	31:D3:62:C:H5	1.89	0.56
35:DD:159:ILE:O	35:DD:161:LYS:N	2.38	0.56
36:DE:42:ALA:HB3	49:DT:69:LYS:O	2.04	0.56
42:DK:93:ASP:HA	42:DK:170:ASP:O	2.05	0.56
48:DS:83:GLY:O	48:DS:84:THR:C	2.48	0.56
48:DS:95:TRP:O	48:DS:96:ILE:C	2.47	0.56
57:Db:97:ALA:HB3	57:Db:100:ILE:H	1.70	0.56
57:Db:107:VAL:O	57:Db:108:ILE:C	2.47	0.56
62:Dg:14:TYR:O	62:Dg:15:GLY:O	2.23	0.56
1:A1:173:A:N7	1:A1:174:U:C6	2.72	0.56
1:A1:508:U:H3'	1:A1:509:G:C8	2.41	0.56
1:A1:520:A:C4	1:A1:521:A:N7	2.74	0.56
1:A1:524:U:N3	1:A1:527:A:C6	2.73	0.56
1:A1:545:A:H61	1:A1:593:U:C2'	2.18	0.56
1:A1:752:A:H2'	1:A1:753:A:C8	2.41	0.56
1:A1:773:C:H4'	1:A1:774:A:OP1	2.05	0.56
1:A1:878:G:C6	1:A1:951:A:N1	2.74	0.56
1:A1:991:G:N2	1:A1:1014:G:C6	2.73	0.56
1:A1:1006:C:C5	1:A1:1007:C:C5	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1065:A:H2'	1:A1:1066:C:C1'	2.35	0.56
1:A1:1260:U:OP1	1:A1:1444:A:N1	2.39	0.56
1:A1:1351:G:C5	1:A1:1352:G:C8	2.94	0.56
1:A1:1365:C:C4	1:A1:1366:U:C5	2.93	0.56
1:A1:1438:G:H2'	1:A1:1439:C:O4'	2.05	0.56
1:A1:1522:U:H2'	1:A1:1523:G:O5'	2.05	0.56
1:A1:1636:C:C4	1:A1:1638:G:C2	2.93	0.56
4:AC:128:GLU:C	4:AC:130:GLY:H	2.13	0.56
6:AE:175:ARG:C	6:AE:177:ALA:H	2.13	0.56
8:AG:145:THR:N	8:AG:146:ALA:HA	2.21	0.56
15:AN:14:GLN:O	15:AN:15:GLN:CB	2.53	0.56
29:B1:23:A:H5"	29:B1:24:G:OP2	2.05	0.56
29:B1:26:A:C2'	29:B1:27:C:C6	2.84	0.56
29:B1:60:A:C2'	29:B1:61:A:H5'	2.36	0.56
29:B1:431:U:O2'	29:B1:432:G:OP1	2.23	0.56
29:B1:593:C:H2'	29:B1:594:U:H4'	1.88	0.56
29:B1:767:U:OP2	29:B1:767:U:H6	1.89	0.56
29:B1:888:A:C6	29:B1:889:U:C2	2.93	0.56
29:B1:915:A:C8	29:B1:915:A:C3'	2.86	0.56
29:B1:1056:U:C4	29:B1:1057:A:N7	2.73	0.56
29:B1:1156:C:C3'	29:B1:1157:G:C5'	2.73	0.56
29:B1:1277:C:C4	29:B1:1278:A:C6	2.93	0.56
29:B1:1313:G:N2	29:B1:1314:C:H1'	2.20	0.56
29:B1:1449:A:N3	29:B1:2356:A:C5	2.74	0.56
29:B1:1496:C:P	29:B1:1514:G:H5'	2.44	0.56
29:B1:2192:C:H2'	29:B1:2193:U:H5'	1.87	0.56
29:B1:2288:G:H2'	29:B1:2289:U:C6	2.40	0.56
29:B1:2394:G:N2	34:BC:258:ALA:HA	2.20	0.56
29:B1:2584:G:OP1	29:B1:2584:G:C4'	2.53	0.56
29:B1:2629:U:N3	29:B1:2630:C:C5	2.73	0.56
29:B1:2833:A:C6	29:B1:2834:G:N7	2.74	0.56
29:B1:3058:U:O2	29:B1:3058:U:O4'	2.16	0.56
29:B1:3092:C:H5'	29:B1:3093:C:OP2	2.05	0.56
29:B1:3147:G:H2'	29:B1:3148:U:O5'	2.06	0.56
29:B1:3210:A:H3'	29:B1:3211:C:C5	2.35	0.56
29:B1:3228:C:O4'	29:B1:3228:C:O2	2.23	0.56
29:B1:3279:A:C8	29:B1:3280:U:H5	2.24	0.56
29:B1:3316:A:N6	29:B1:3387:U:N3	2.53	0.56
29:B1:3334:U:H5'	29:B1:3371:G:H22	1.68	0.56
29:B1:3377:G:H1'	29:B1:3378:C:H5'	1.86	0.56
29:B1:3377:G:H5'	74:B1:3450:OHX:N2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:69:C:H5'	30:B2:70:U:OP2	2.06	0.56
30:B2:79:A:C2'	30:B2:80:G:H5'	2.36	0.56
31:B3:89:A:N3	31:B3:89:A:H3'	2.21	0.56
31:B3:90:U:H3'	31:B3:90:U:P	2.46	0.56
32:BA:95:LYS:HA	32:BA:100:ILE:H	1.68	0.56
33:BB:82:VAL:O	33:BB:83:HIS:C	2.48	0.56
37:BF:23:LYS:HA	37:BF:114:LYS:CB	2.36	0.56
40:BI:168:ARG:O	40:BI:169:ASN:CB	2.53	0.56
42:BK:22:SER:O	42:BK:23:VAL:O	2.24	0.56
43:BN:93:LYS:O	43:BN:96:ALA:N	2.39	0.56
53:BX:59:VAL:H	53:BX:104:LEU:HA	1.70	0.56
1:C1:10:G:H2'	1:C1:11:A:C8	2.41	0.56
1:C1:72:A:H2'	1:C1:72:A:N3	2.20	0.56
1:C1:89:G:C4	1:C1:90:C:C6	2.93	0.56
1:C1:273:G:OP1	1:C1:273:G:H8	1.86	0.56
1:C1:276:C:O2'	1:C1:277:U:P	2.63	0.56
1:C1:508:U:H3'	1:C1:509:G:C8	2.41	0.56
1:C1:620:A:C5	1:C1:621:A:C2	2.94	0.56
1:C1:722:G:C4'	1:C1:723:G:OP1	2.53	0.56
1:C1:871:G:C6	1:C1:957:G:N1	2.73	0.56
1:C1:923:A:H2'	1:C1:924:A:H8	1.70	0.56
1:C1:1138:A:H2'	1:C1:1139:A:H8	1.70	0.56
1:C1:1139:A:C2	1:C1:1140:G:H1'	2.40	0.56
1:C1:1251:U:C2'	1:C1:1252:C:O4'	2.53	0.56
1:C1:1263:G:C6	1:C1:1264:G:C4	2.93	0.56
1:C1:1413:U:H4'	1:C1:1414:U:H5"	1.86	0.56
2:CA:144:ILE:O	2:CA:145:ALA:HB2	2.04	0.56
4:CC:11:LEU:O	4:CC:12:VAL:C	2.48	0.56
20:CS:23:VAL:O	74:CS:101:OHX:N2	2.39	0.56
23:Cb:12:UNK:O	23:Cb:13:UNK:CB	2.54	0.56
28:Ch:4:UNK:O	28:Ch:5:UNK:C	2.52	0.56
29:D1:40:A:H3'	29:D1:41:G:H5'	1.88	0.56
29:D1:73:C:C5	29:D1:74:G:C8	2.93	0.56
29:D1:253:A:N6	29:D1:254:A:C6	2.74	0.56
29:D1:295:A:N7	29:D1:296:A:C2	2.73	0.56
29:D1:317:A:H2'	29:D1:317:A:N3	2.21	0.56
29:D1:431:U:C6	29:D1:431:U:C3'	2.88	0.56
29:D1:577:C:C6	29:D1:577:C:C3'	2.89	0.56
29:D1:691:A:H4'	29:D1:692:A:OP2	2.06	0.56
29:D1:733:G:N3	29:D1:733:G:H2'	2.20	0.56
29:D1:749:C:C2	29:D1:750:G:C8	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:882:A:C2	29:D1:885:U:N1	2.73	0.56
29:D1:1236:G:C1'	29:D1:1245:A:H1'	2.35	0.56
29:D1:1311:G:C1'	29:D1:2381:G:H5'	2.36	0.56
29:D1:1658:G:N9	29:D1:1796:G:N7	2.53	0.56
29:D1:1841:A:N1	29:D1:1848:G:C5	2.73	0.56
29:D1:1898:G:OP2	74:D1:3470:OHX:N2	2.39	0.56
29:D1:2092:A:H5"	29:D1:2093:A:OP2	2.05	0.56
29:D1:2143:A:C8	29:D1:2145:A:N7	2.74	0.56
29:D1:2290:C:N3	29:D1:2303:A:N1	2.53	0.56
29:D1:2343:C:H2'	29:D1:2344:U:H6	1.71	0.56
29:D1:2389:C:O2'	29:D1:2390:A:C5'	2.54	0.56
29:D1:2607:G:C4	29:D1:2608:G:C8	2.94	0.56
29:D1:2931:C:C2	29:D1:2932:U:C6	2.94	0.56
29:D1:3023:U:C2'	29:D1:3024:A:C8	2.83	0.56
29:D1:3037:U:HO2'	29:D1:3038:U:H5'	1.69	0.56
29:D1:3235:C:C4	29:D1:3236:U:C4	2.94	0.56
29:D1:3365:U:C2	29:D1:3366:G:N7	2.73	0.56
31:D3:13:A:H2'	31:D3:14:C:H6	1.69	0.56
31:D3:56:G:C6	31:D3:62:C:C4	2.93	0.56
36:DE:103:LEU:O	36:DE:106:ALA:O	2.23	0.56
38:DG:126:LEU:O	38:DG:127:LEU:C	2.48	0.56
72:DL:82:ILE:C	72:DL:84:ALA:N	2.62	0.56
44:DO:97:SER:O	44:DO:99:ARG:N	2.39	0.56
45:DP:81:TYR:O	45:DP:82:LYS:C	2.46	0.56
56:Da:54:GLU:HA	56:Da:57:GLN:CB	2.35	0.56
57:Db:54:LYS:O	57:Db:55:ILE:C	2.46	0.56
1:A1:25:C:C6	1:A1:25:C:C3'	2.88	0.56
1:A1:204:G:H2'	1:A1:204:G:N3	2.21	0.56
1:A1:252:U:O2'	1:A1:253:A:P	2.63	0.56
1:A1:270:C:H3'	1:A1:271:A:C5'	2.36	0.56
1:A1:382:C:H2'	1:A1:382:C:O2	2.06	0.56
1:A1:568:G:O2'	1:A1:569:C:H5'	2.06	0.56
1:A1:825:U:C5	1:A1:847:A:N6	2.73	0.56
1:A1:874:C:O5'	1:A1:874:C:H6	1.89	0.56
1:A1:1491:U:H3'	1:A1:1492:A:C5'	2.35	0.56
1:A1:1512:G:H2'	1:A1:1513:G:C8	2.40	0.56
1:A1:1559:A:C1'	13:AL:135:GLY:HA2	2.36	0.56
1:A1:1597:A:C5	1:A1:1598:U:C4	2.93	0.56
1:A1:1786:G:C6	1:A1:1787:C:N4	2.73	0.56
3:AB:235:LEU:O	3:AB:236:PRO:C	2.49	0.56
6:AE:73:GLY:C	6:AE:75:ALA:N	2.62	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AO:96:ALA:O	16:AO:98:GLN:N	2.37	0.56
17:AP:109:ARG:N	17:AP:110:LYS:CA	2.52	0.56
20:AS:38:ILE:O	20:AS:40:ARG:N	2.39	0.56
24:Ac:54:UNK:HA	24:Ac:62:UNK:C	2.36	0.56
29:B1:37:U:C2	29:B1:38:U:C5	2.94	0.56
29:B1:199:A:N3	29:B1:201:A:C8	2.74	0.56
29:B1:281:G:N3	29:B1:282:G:N7	2.53	0.56
29:B1:518:G:P	29:B1:520:U:C5	2.99	0.56
29:B1:726:G:C6	29:B1:727:G:C2	2.93	0.56
29:B1:762:U:C4	74:B1:3479:OHX:N3	2.74	0.56
29:B1:835:G:N2	29:B1:857:G:H1'	2.20	0.56
29:B1:891:G:C5	29:B1:892:U:C5	2.93	0.56
29:B1:914:A:H4'	29:B1:915:A:H5'	1.87	0.56
29:B1:1003:A:C2	29:B1:1004:U:H1'	2.41	0.56
29:B1:1119:C:H1'	29:B1:1154:A:N3	2.21	0.56
29:B1:1197:A:C8	29:B1:1197:A:H5'	2.40	0.56
29:B1:1217:A:H5'	29:B1:1218:U:OP2	2.05	0.56
29:B1:1247:U:H5'	29:B1:1248:C:C5	2.41	0.56
29:B1:1491:A:H62	60:Be:3:ALA:HB2	1.70	0.56
29:B1:1723:A:C5'	29:B1:1724:U:OP2	2.54	0.56
29:B1:2284:C:N3	29:B1:2308:C:O4'	2.38	0.56
29:B1:2325:G:C6	29:B1:2326:A:N7	2.74	0.56
29:B1:2522:G:H1'	29:B1:2523:A:OP1	2.06	0.56
29:B1:2737:C:OP1	49:BT:70:SER:O	2.23	0.56
29:B1:2738:A:H2'	29:B1:2738:A:N3	2.21	0.56
29:B1:2833:A:N1	29:B1:2834:G:C8	2.74	0.56
29:B1:2896:A:H8	29:B1:2896:A:C5'	2.18	0.56
29:B1:3153:U:H1'	29:B1:3395:G:N2	2.20	0.56
29:B1:3180:A:OP1	29:B1:3180:A:H4'	2.06	0.56
31:B3:43:A:H2'	31:B3:44:A:H8	1.71	0.56
31:B3:65:A:C4	31:B3:66:A:C8	2.93	0.56
31:B3:74:U:OP2	31:B3:76:C:N3	2.37	0.56
34:BC:169:THR:O	34:BC:171:LEU:N	2.38	0.56
34:BC:281:LYS:O	34:BC:324:VAL:HA	2.05	0.56
43:BN:21:VAL:O	43:BN:34:ALA:CB	2.54	0.56
43:BN:63:VAL:O	43:BN:64:VAL:CB	2.52	0.56
44:BO:143:ARG:C	44:BO:146:ALA:HB2	2.31	0.56
51:BV:4:GLU:O	51:BV:5:ILE:CB	2.52	0.56
57:Bb:65:PHE:O	57:Bb:67:SER:CB	2.53	0.56
68:Bn:12:UNK:C	68:Bn:14:UNK:H	2.18	0.56
1:C1:183:U:H1'	1:C1:184:C:O5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:213:A:H2'	1:C1:214:G:C5'	2.33	0.56
1:C1:620:A:C4	1:C1:621:A:C2	2.93	0.56
1:C1:721:U:H2'	1:C1:721:U:O2	2.06	0.56
1:C1:766:U:C4	1:C1:769:A:N7	2.74	0.56
1:C1:1165:G:O6	1:C1:1166:A:N6	2.39	0.56
1:C1:1199:G:N2	1:C1:1201:G:OP2	2.38	0.56
1:C1:1501:C:O2'	1:C1:1502:G:H5'	2.05	0.56
1:C1:1521:G:O6	74:C1:1930:OHX:N5	2.39	0.56
1:C1:1569:A:C4	1:C1:1570:A:C8	2.93	0.56
1:C1:1665:U:H3	1:C1:1736:G:H1	1.52	0.56
10:CI:19:GLY:C	10:CI:21:ASP:N	2.61	0.56
15:CN:14:GLN:O	15:CN:15:GLN:CB	2.54	0.56
23:Cb:60:UNK:O	23:Cb:61:UNK:C	2.54	0.56
29:D1:209:A:O3'	29:D1:210:U:C6	2.59	0.56
29:D1:279:U:O2	29:D1:286:U:N3	2.38	0.56
29:D1:305:U:O2'	29:D1:306:A:OP2	2.23	0.56
29:D1:307:A:C8	29:D1:307:A:H3'	2.41	0.56
29:D1:425:G:C5	29:D1:635:G:C2	2.94	0.56
29:D1:564:G:H2'	29:D1:565:U:C6	2.40	0.56
29:D1:835:G:N2	29:D1:857:G:N3	2.53	0.56
29:D1:837:A:N3	29:D1:837:A:H2'	2.20	0.56
29:D1:888:A:N6	29:D1:889:U:N3	2.53	0.56
29:D1:1390:A:H5"	29:D1:1390:A:N3	2.21	0.56
29:D1:1441:G:C2'	29:D1:1442:U:C5'	2.64	0.56
29:D1:1550:C:H1'	29:D1:2166:A:H61	1.69	0.56
29:D1:1626:U:H2'	29:D1:1627:U:C1'	2.36	0.56
29:D1:1666:G:O2'	29:D1:1667:A:H5'	2.05	0.56
29:D1:1780:G:O2'	29:D1:1781:C:O5'	2.24	0.56
29:D1:2266:U:C4	29:D1:2267:C:N4	2.73	0.56
29:D1:2301:U:H2'	29:D1:2302:G:H8	1.70	0.56
29:D1:2378:C:O2	29:D1:2378:C:C2'	2.53	0.56
29:D1:2629:U:N3	29:D1:2630:C:C5	2.74	0.56
29:D1:2762:A:H2'	29:D1:2763:U:H6	1.70	0.56
29:D1:2892:A:H2'	29:D1:2893:C:H6	1.71	0.56
29:D1:3009:G:H2'	29:D1:3010:U:H5'	1.88	0.56
29:D1:3393:U:N3	29:D1:3394:U:C5	2.74	0.56
31:D3:104:A:C5'	31:D3:105:A:H8	2.15	0.56
33:DB:229:ALA:O	33:DB:232:GLY:N	2.37	0.56
38:DG:180:SER:O	38:DG:183:ASP:N	2.38	0.56
40:DI:159:ALA:O	40:DI:160:ASP:C	2.49	0.56
42:DK:76:ALA:O	42:DK:78:GLU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DO:83:LYS:C	44:DO:85:THR:H	2.11	0.56
58:Dc:41:LEU:H	58:Dc:42:PRO:HA	1.59	0.56
60:De:10:LYS:O	60:De:13:MET:N	2.39	0.56
63:Dh:46:UNK:O	63:Dh:50:UNK:CB	2.53	0.56
1:A1:77:U:H3'	1:A1:78:A:H5"	1.87	0.56
1:A1:298:C:C6	1:A1:298:C:C3'	2.89	0.56
1:A1:387:A:N3	1:A1:402:C:H5	2.03	0.56
1:A1:389:G:C5	1:A1:390:G:C5	2.94	0.56
1:A1:452:A:N1	1:A1:454:U:C6	2.74	0.56
1:A1:527:A:H3'	1:A1:528:U:C5'	2.33	0.56
1:A1:697:C:C3'	1:A1:698:U:H5"	2.36	0.56
1:A1:755:A:H4'	1:A1:756:A:OP1	2.04	0.56
1:A1:837:G:C2	1:A1:838:G:C4	2.94	0.56
1:A1:940:A:C2	1:A1:941:A:C8	2.93	0.56
1:A1:977:A:C5	1:A1:1025:A:C2	2.93	0.56
1:A1:1005:A:C5	1:A1:1006:C:C4	2.93	0.56
1:A1:1296:A:H2'	1:A1:1297:G:C5'	2.35	0.56
1:A1:1331:A:C2'	1:A1:1332:C:O5'	2.53	0.56
1:A1:1368:G:C6	1:A1:1369:U:C4	2.94	0.56
1:A1:1369:U:O4	74:A1:1959:OHX:N5	2.39	0.56
1:A1:1588:G:C6	1:A1:1589:C:C4	2.94	0.56
1:A1:1591:C:H2'	1:A1:1591:C:O2	2.05	0.56
1:A1:1657:U:C2	74:A1:1949:OHX:N5	2.74	0.56
1:A1:1683:C:H4'	1:A1:1684:U:C5	2.41	0.56
1:A1:1683:C:O3'	1:A1:1684:U:C2	2.59	0.56
1:A1:1690:G:H1'	1:A1:1714:A:H2	1.71	0.56
1:A1:1690:G:C2'	1:A1:1691:A:H5"	2.36	0.56
1:A1:1778:G:C6	1:A1:1779:U:C5	2.94	0.56
4:AC:52:ALA:HB3	4:AC:55:THR:CB	2.36	0.56
11:AJ:46:PHE:O	11:AJ:48:VAL:N	2.37	0.56
11:AJ:96:TYR:O	11:AJ:97:VAL:CB	2.53	0.56
18:AQ:41:ILE:C	18:AQ:43:ASP:N	2.64	0.56
29:B1:77:A:C2	29:B1:78:U:C1'	2.88	0.56
29:B1:344:A:C2	29:B1:345:G:C1'	2.88	0.56
29:B1:362:U:C2	29:B1:363:G:C8	2.94	0.56
29:B1:378:A:H3'	29:B1:378:A:C4	2.37	0.56
29:B1:404:G:N1	29:B1:405:U:O2	2.38	0.56
29:B1:509:U:H2'	29:B1:509:U:O2	2.04	0.56
29:B1:534:U:H6	29:B1:534:U:P	2.28	0.56
29:B1:573:C:H2'	29:B1:574:U:H6	1.69	0.56
29:B1:585:A:C5	29:B1:586:C:N4	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:716:A:C3’	29:B1:716:A:C8	2.89	0.56
29:B1:1029:G:H2’	29:B1:1030:A:C5’	2.36	0.56
29:B1:1207:G:C8	29:B1:1207:G:H5’	2.41	0.56
29:B1:1262:G:C8	29:B1:1262:G:OP2	2.58	0.56
29:B1:1289:G:C4	29:B1:1290:A:C8	2.94	0.56
29:B1:1303:A:C8	29:B1:1304:A:C4	2.90	0.56
29:B1:1605:A:C2	29:B1:1608:C:C6	2.94	0.56
29:B1:1627:U:C5’	29:B1:1628:C:OP2	2.53	0.56
29:B1:1660:C:O2’	29:B1:1661:G:C5’	2.49	0.56
29:B1:2110:G:O6	29:B1:2113:A:N6	2.38	0.56
29:B1:2193:U:C5’	29:B1:2312:A:C2	2.88	0.56
29:B1:2260:U:C3’	29:B1:2261:G:C8	2.88	0.56
29:B1:2520:A:H5”	29:B1:2521:U:OP1	2.05	0.56
29:B1:2609:A:H5”	29:B1:2610:G:OP2	2.06	0.56
29:B1:2827:U:O4	74:B1:3417:OHX:N3	2.38	0.56
29:B1:3000:A:C4	29:B1:3001:C:C5	2.93	0.56
29:B1:3095:U:H2’	29:B1:3096:C:O5’	2.06	0.56
30:B2:66:A:H2’	30:B2:67:G:O4’	2.06	0.56
30:B2:69:C:OP2	74:B2:209:OHX:N3	2.38	0.56
31:B3:97:A:C6	31:B3:98:U:N3	2.74	0.56
33:BB:229:ALA:O	33:BB:232:GLY:N	2.38	0.56
38:BG:33:ARG:O	38:BG:36:ALA:HB3	2.05	0.56
42:BK:30:LEU:O	42:BK:32:ARG:N	2.38	0.56
44:BO:163:GLY:O	44:BO:165:THR:N	2.39	0.56
52:BW:133:LEU:HA	52:BW:136:ALA:HB3	1.86	0.56
54:BY:69:TRP:N	54:BY:110:GLY:HA2	2.21	0.56
56:Ba:80:ASN:C	56:Ba:82:GLU:H	2.13	0.56
26:Bj:12:UNK:O	26:Bj:13:UNK:C	2.53	0.56
71:Br:-1:UNK:C	71:Br:1:UNK:N	2.67	0.56
1:C1:14:C:OP1	3:CB:164:SER:N	2.39	0.56
1:C1:98:U:H2’	1:C1:98:U:O2	2.06	0.56
1:C1:328:A:C4	1:C1:329:G:C8	2.94	0.56
1:C1:329:G:C2	1:C1:330:G:C5	2.94	0.56
1:C1:363:G:N1	1:C1:382:C:C4	2.73	0.56
1:C1:425:A:H5’	1:C1:425:A:C8	2.40	0.56
1:C1:520:A:C5	1:C1:521:A:N7	2.74	0.56
1:C1:698:U:H3	1:C1:740:A:H61	1.52	0.56
1:C1:743:U:OP2	1:C1:743:U:H3’	2.05	0.56
1:C1:755:A:C4’	1:C1:756:A:OP1	2.53	0.56
1:C1:908:U:O5’	1:C1:908:U:H6	1.89	0.56
1:C1:1043:A:C4	1:C1:1044:U:H5	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1196:A:C8	1:C1:1602:C:H4'	2.41	0.56
1:C1:1306:C:O2	1:C1:1306:C:O4'	2.18	0.56
1:C1:1525:A:C6	1:C1:1526:A:C6	2.93	0.56
1:C1:1584:G:N3	1:C1:1584:G:C2'	2.68	0.56
1:C1:1591:C:H2'	1:C1:1591:C:O2	2.05	0.56
1:C1:1609:U:C5'	1:C1:1609:U:C6	2.88	0.56
1:C1:1725:U:O5'	1:C1:1725:U:C6	2.58	0.56
1:C1:1727:G:N1	1:C1:1728:A:C6	2.74	0.56
3:CB:211:LEU:O	3:CB:213:ALA:O	2.24	0.56
5:CD:134:VAL:C	5:CD:136:ALA:H	2.14	0.56
9:CH:61:MET:C	9:CH:63:ALA:H	2.13	0.56
14:CM:24:ARG:O	14:CM:25:GLN:CB	2.54	0.56
16:CO:17:ALA:O	16:CO:20:THR:N	2.36	0.56
21:CT:297:ASP:O	21:CT:298:GLY:C	2.49	0.56
29:D1:35:A:C2	29:D1:36:C:C6	2.93	0.56
29:D1:198:A:N3	29:D1:218:G:O2'	2.37	0.56
29:D1:264:G:N3	29:D1:264:G:H2'	2.20	0.56
29:D1:521:A:N7	29:D1:571:U:O4	2.39	0.56
29:D1:717:C:C5	29:D1:721:G:OP1	2.58	0.56
29:D1:896:A:N6	29:D1:2133:U:H3	2.00	0.56
29:D1:939:U:O2'	29:D1:940:G:H5'	2.06	0.56
29:D1:996:A:O2'	29:D1:997:A:H5'	2.06	0.56
29:D1:1306:G:C4	45:DP:62:THR:CB	2.89	0.56
29:D1:1330:A:C8	29:D1:1330:A:H3'	2.41	0.56
29:D1:1550:C:C1'	29:D1:2166:A:H61	2.18	0.56
29:D1:1640:G:O5'	29:D1:1640:G:H8	1.88	0.56
29:D1:1779:C:H4'	29:D1:1780:G:OP1	2.00	0.56
29:D1:1875:G:C6	29:D1:1876:U:C4	2.93	0.56
29:D1:1946:A:H2'	29:D1:1947:G:C8	2.41	0.56
29:D1:2327:U:O2	29:D1:2327:U:C2'	2.50	0.56
29:D1:2394:G:N2	34:DC:258:ALA:HA	2.20	0.56
29:D1:2406:C:H2'	29:D1:2407:C:H6	1.70	0.56
29:D1:2423:U:O2'	29:D1:2424:A:O4'	2.22	0.56
29:D1:2687:G:OP1	74:D1:3430:OHX:N2	2.38	0.56
29:D1:2836:C:O2	29:D1:2836:C:C3'	2.54	0.56
29:D1:2860:U:C4	29:D1:2938:G:H5"	2.40	0.56
29:D1:3096:C:H2'	29:D1:3097:C:H6	1.69	0.56
29:D1:3182:G:O2'	29:D1:3183:A:H5'	2.05	0.56
29:D1:3183:A:H2	29:D1:3188:G:O3'	1.87	0.56
29:D1:3219:G:N9	29:D1:3257:C:H5"	2.17	0.56
29:D1:3299:A:H1'	29:D1:3300:U:OP2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3325:G:H2'	29:D1:3326:G:C8	2.41	0.56
30:D2:37:G:N2	30:D2:45:A:N6	2.53	0.56
38:DG:36:ALA:O	38:DG:37:ASN:C	2.48	0.56
39:DH:205:ALA:HB3	39:DH:206:GLU:CB	2.35	0.56
45:DP:58:LEU:CA	45:DP:61:ALA:H	2.18	0.56
47:DR:57:ILE:C	47:DR:59:ARG:N	2.62	0.56
47:DR:142:GLY:O	47:DR:143:PRO:CB	2.54	0.56
49:DT:23:GLY:O	49:DT:24:ALA:HB3	2.04	0.56
55:DZ:45:ALA:HA	55:DZ:70:PHE:CB	2.36	0.56
1:A1:38:C:H3'	1:A1:39:A:H5"	1.88	0.56
1:A1:85:A:O2'	1:A1:86:A:P	2.64	0.56
1:A1:116:U:H2'	1:A1:117:U:C6	2.40	0.56
1:A1:173:A:C3'	1:A1:174:U:H5"	2.29	0.56
1:A1:316:A:C6	1:A1:317:C:C5	2.93	0.56
1:A1:328:A:C4	1:A1:329:G:C8	2.94	0.56
1:A1:480:G:H2'	1:A1:481:A:O4'	2.05	0.56
1:A1:480:G:H1	1:A1:508:U:H3	1.53	0.56
1:A1:623:A:C2	1:A1:1105:C:O2'	2.59	0.56
1:A1:901:G:H5'	1:A1:902:G:N7	2.20	0.56
1:A1:1113:A:C2	1:A1:1115:U:O4	2.59	0.56
1:A1:1165:G:C6	1:A1:1166:A:C6	2.94	0.56
1:A1:1205:C:C6	1:A1:1206:U:O2	2.59	0.56
1:A1:1392:U:H5"	1:A1:1392:U:C6	2.41	0.56
1:A1:1477:G:C2'	1:A1:1478:G:H5"	2.36	0.56
1:A1:1765:A:P	74:A1:1931:OHX:N3	2.78	0.56
4:AC:76:ARG:O	4:AC:78:LYS:N	2.39	0.56
4:AC:114:ALA:C	4:AC:116:ARG:H	2.14	0.56
10:AI:98:ASN:H	10:AI:101:ALA:HB3	1.69	0.56
11:AJ:110:THR:HA	11:AJ:113:ASP:CB	2.36	0.56
29:B1:424:G:C6	29:B1:635:G:N2	2.74	0.56
29:B1:556:U:C5	29:B1:557:A:C2	2.93	0.56
29:B1:637:C:N1	29:B1:638:C:C5	2.74	0.56
29:B1:763:G:H21	29:B1:767:U:C2'	2.18	0.56
29:B1:914:A:H8	29:B1:914:A:O5'	1.89	0.56
29:B1:920:A:H5"	29:B1:922:U:C4	2.40	0.56
29:B1:958:C:OP1	29:B1:2799:A:H3'	2.06	0.56
29:B1:1077:U:O2'	29:B1:1078:U:H6	1.86	0.56
29:B1:1129:A:H62	29:B1:1130:A:N6	2.01	0.56
29:B1:1378:U:H2'	29:B1:1378:U:O2	2.04	0.56
29:B1:1517:G:C4	29:B1:1518:U:C5	2.94	0.56
29:B1:1741:A:H3'	29:B1:1742:U:C5	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2178:A:H1'	29:B1:2180:G:C5	2.40	0.56
29:B1:2215:A:C4	29:B1:2216:G:C8	2.94	0.56
29:B1:2348:A:OP2	29:B1:2349:U:H5	1.89	0.56
29:B1:2607:G:C6	29:B1:2608:G:C5	2.94	0.56
29:B1:2621:G:H2'	29:B1:2622:C:H6	1.69	0.56
29:B1:2689:A:C4	29:B1:2702:A:C2	2.94	0.56
29:B1:2705:A:OP2	74:B1:3405:OHX:N1	2.38	0.56
29:B1:3020:U:H2'	29:B1:3021:A:H8	1.69	0.56
29:B1:3066:U:C2	29:B1:3067:C:C5	2.94	0.56
29:B1:3098:G:C5'	29:B1:3099:C:OP1	2.53	0.56
29:B1:3174:A:O2'	29:B1:3175:U:C5'	2.53	0.56
29:B1:3209:A:C6	29:B1:3210:A:N1	2.74	0.56
29:B1:3328:G:N2	29:B1:3329:U:C4	2.74	0.56
30:B2:14:U:OP2	30:B2:14:U:C1'	2.54	0.56
31:B3:19:C:C2	31:B3:20:U:C5	2.94	0.56
31:B3:81:U:O5'	31:B3:81:U:H6	1.88	0.56
34:BC:51:ALA:HB3	34:BC:79:VAL:HA	1.85	0.56
36:BE:159:VAL:O	36:BE:162:ALA:N	2.38	0.56
40:BI:85:GLY:HA3	40:BI:187:ILE:O	2.06	0.56
54:BY:118:ILE:O	54:BY:119:PRO:CB	2.53	0.56
63:Bh:49:UNK:O	63:Bh:50:UNK:C	2.53	0.56
1:C1:55:A:C5	1:C1:403:G:C2	2.93	0.56
1:C1:283:U:C2'	1:C1:284:G:O4'	2.51	0.56
1:C1:341:A:H2'	1:C1:341:A:N3	2.20	0.56
1:C1:697:C:C6	74:C1:1918:OHX:N5	2.74	0.56
1:C1:729:G:C8	1:C1:729:G:OP2	2.59	0.56
1:C1:832:U:H3'	1:C1:833:U:H5"	1.88	0.56
1:C1:846:G:O2'	1:C1:847:A:O5'	2.23	0.56
1:C1:891:A:C6	1:C1:922:G:C6	2.93	0.56
1:C1:973:A:H4'	29:D1:847:A:H2	1.70	0.56
1:C1:973:A:C2	1:C1:974:A:N7	2.73	0.56
1:C1:1043:A:H2'	1:C1:1044:U:C6	2.41	0.56
1:C1:1169:G:C2	1:C1:1577:A:C6	2.93	0.56
1:C1:1225:U:H2'	1:C1:1226:A:O4'	2.05	0.56
1:C1:1349:G:H4'	1:C1:1350:U:C5'	2.36	0.56
1:C1:1388:A:C6	1:C1:1412:G:C6	2.93	0.56
1:C1:1422:A:H2'	1:C1:1423:U:O4'	2.06	0.56
1:C1:1483:A:H1'	1:C1:1524:A:N6	2.20	0.56
2:CA:6:THR:C	2:CA:8:ASP:H	2.13	0.56
11:CJ:35:PRO:C	11:CJ:37:THR:N	2.64	0.56
17:CP:44:GLY:C	17:CP:46:SER:N	2.60	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:60:A:H2'	29:D1:61:A:C5'	2.36	0.56
29:D1:306:A:H2	29:D1:307:A:N9	2.03	0.56
29:D1:349:A:C2	31:D3:24:G:C4	2.94	0.56
29:D1:572:A:C4	29:D1:573:C:C6	2.94	0.56
29:D1:747:A:C5	29:D1:748:U:H5	2.24	0.56
29:D1:1097:G:O3'	29:D1:1098:A:H4'	2.06	0.56
29:D1:1205:A:C5	29:D1:1206:G:N7	2.73	0.56
29:D1:1213:G:C8	29:D1:1213:G:C5'	2.84	0.56
29:D1:1455:U:H3	29:D1:3077:A:P	2.29	0.56
29:D1:1616:U:H2'	29:D1:1617:G:H8	1.70	0.56
29:D1:2225:U:C2	29:D1:2226:U:C5	2.94	0.56
29:D1:2299:A:C6	29:D1:2300:G:C8	2.93	0.56
29:D1:2311:G:O2'	29:D1:2312:A:O4'	2.22	0.56
29:D1:2317:A:C2	29:D1:2318:U:C2	2.94	0.56
29:D1:2677:G:N2	29:D1:2678:A:H5'	2.20	0.56
29:D1:2727:A:N1	29:D1:2728:G:O6	2.38	0.56
29:D1:2918:G:N3	29:D1:2919:A:C8	2.74	0.56
29:D1:3014:U:O2'	29:D1:3015:G:H5'	2.05	0.56
29:D1:3117:C:H2'	29:D1:3118:C:C5'	2.18	0.56
29:D1:3160:U:O4	29:D1:3290:G:O6	2.23	0.56
29:D1:3310:A:N3	29:D1:3310:A:H2'	2.21	0.56
31:D3:2:A:N6	31:D3:3:A:N1	2.54	0.56
31:D3:91:C:H2'	31:D3:92:A:H8	1.70	0.56
35:DD:253:ALA:O	35:DD:254:ALA:O	2.24	0.56
35:DD:254:ALA:O	35:DD:255:PHE:C	2.48	0.56
40:DI:92:TYR:HA	40:DI:179:ILE:HA	1.87	0.56
72:DL:109:ILE:O	72:DL:113:ALA:N	2.39	0.56
1:A1:26:A:P	1:A1:26:A:H3'	2.46	0.56
1:A1:380:U:C2'	1:A1:381:C:C6	2.82	0.56
1:A1:428:A:H2	1:A1:440:U:O2	1.88	0.56
1:A1:618:U:H2'	1:A1:619:A:C5'	2.34	0.56
1:A1:1149:G:N2	1:A1:1150:G:O6	2.39	0.56
1:A1:1517:U:O2	15:AN:17:GLN:N	2.39	0.56
74:A1:1916:OHX:N3	74:A1:1975:OHX:N4	2.54	0.56
3:AB:131:ILE:C	3:AB:133:LYS:N	2.61	0.56
3:AB:188:LEU:O	3:AB:189:GLN:C	2.48	0.56
8:AG:126:ALA:O	8:AG:129:TYR:N	2.38	0.56
16:AO:116:ALA:C	16:AO:118:ARG:N	2.55	0.56
19:AR:7:VAL:O	19:AR:8:THR:C	2.49	0.56
25:Ad:97:UNK:O	25:Ad:99:UNK:N	2.38	0.56
29:B1:30:G:C6	29:B1:55:G:C6	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:89:A:N6	29:B1:98:G:C2	2.73	0.56
29:B1:208:C:H2'	29:B1:209:A:O5'	2.06	0.56
29:B1:396:A:H2	29:B1:399:A:C4	2.24	0.56
29:B1:397:A:H4'	29:B1:398:A:H5'	1.87	0.56
29:B1:648:C:H5	29:B1:2375:G:P	2.29	0.56
29:B1:680:G:O6	29:B1:701:G:O6	2.24	0.56
29:B1:835:G:N2	29:B1:857:G:N3	2.53	0.56
29:B1:891:G:H5'	29:B1:2324:A:N3	2.21	0.56
29:B1:961:C:O2'	29:B1:962:A:OP2	2.22	0.56
29:B1:965:A:N6	29:B1:966:U:H3	2.04	0.56
29:B1:1105:A:C6	29:B1:1106:G:C5	2.94	0.56
29:B1:1156:C:H2'	29:B1:1156:C:O2	2.06	0.56
29:B1:1212:A:C2	29:B1:1213:G:C8	2.94	0.56
29:B1:1310:G:C2'	29:B1:1311:G:O5'	2.53	0.56
29:B1:1311:G:H2'	29:B1:1312:C:O5'	2.05	0.56
29:B1:1394:A:C2'	29:B1:1395:G:O5'	2.54	0.56
29:B1:1498:A:H5'	29:B1:1602:A:H1'	1.88	0.56
29:B1:1528:G:H2'	29:B1:1529:A:C8	2.34	0.56
29:B1:1662:G:H1	29:B1:1787:A:N6	2.04	0.56
29:B1:2117:A:H2'	29:B1:2118:C:C6	2.41	0.56
29:B1:2341:A:H2'	29:B1:2342:U:H6	1.71	0.56
29:B1:2513:U:H5"	29:B1:2592:G:H22	1.69	0.56
29:B1:2750:U:H2'	29:B1:2751:G:H8	1.71	0.56
29:B1:2903:A:C5	29:B1:2904:U:H6	2.24	0.56
29:B1:3011:A:H1'	29:B1:3012:A:O4'	2.06	0.56
29:B1:3178:A:O2'	29:B1:3179:U:P	2.63	0.56
29:B1:3240:C:C5	74:B1:3469:OHX:N6	2.74	0.56
31:B3:140:G:C5	31:B3:141:C:C4	2.94	0.56
44:BO:141:ALA:HA	44:BO:144:ARG:CB	2.36	0.56
45:BP:9:ILE:HA	45:BP:117:ARG:O	2.05	0.56
45:BP:187:GLU:O	45:BP:189:ASP:N	2.38	0.56
49:BT:9:SER:C	49:BT:11:THR:H	2.14	0.56
55:BZ:76:GLU:C	55:BZ:78:GLY:H	2.14	0.56
61:Bf:77:CYS:C	61:Bf:79:THR:H	2.14	0.56
62:Bg:22:LEU:O	62:Bg:23:ARG:C	2.48	0.56
1:C1:40:A:H2'	1:C1:41:A:O4'	2.06	0.56
1:C1:243:G:N3	1:C1:251:A:C2	2.73	0.56
1:C1:594:A:H4'	1:C1:595:G:C5'	2.33	0.56
1:C1:607:G:H4'	1:C1:608:U:OP2	2.06	0.56
1:C1:693:U:C2'	1:C1:694:U:OP1	2.52	0.56
1:C1:756:A:C4	1:C1:757:A:N7	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:935:U:H2'	1:C1:936:G:H8	1.71	0.56
1:C1:940:A:C4	1:C1:941:A:C8	2.94	0.56
1:C1:986:G:O2'	1:C1:987:G:C5'	2.54	0.56
1:C1:1150:G:C2	1:C1:1766:A:OP1	2.58	0.56
1:C1:1369:U:H2'	1:C1:1370:U:C6	2.41	0.56
1:C1:1575:G:H5'	1:C1:1576:A:OP2	2.06	0.56
1:C1:1584:G:H8	11:CJ:123:ARG:H	1.49	0.56
1:C1:1665:U:O4	74:C1:1993:OHX:N6	2.39	0.56
74:C1:1924:OHX:N2	74:C1:1964:OHX:N2	2.54	0.56
16:CO:13:ALA:O	16:CO:17:ALA:HB2	2.05	0.56
22:Ca:6:UNK:O	22:Ca:7:UNK:O	2.24	0.56
29:D1:10:C:H42	31:D3:148:G:H1	1.51	0.56
29:D1:52:A:C2'	29:D1:53:G:O5'	2.54	0.56
29:D1:197:G:N2	29:D1:372:A:C8	2.74	0.56
29:D1:282:G:H3'	29:D1:282:G:OP2	2.06	0.56
29:D1:293:C:N3	29:D1:294:U:C2	2.74	0.56
29:D1:351:A:C8	31:D3:53:A:H1'	2.41	0.56
29:D1:396:A:H8	29:D1:396:A:H5'	1.71	0.56
29:D1:501:A:C2	29:D1:613:G:C2	2.94	0.56
29:D1:566:G:C2'	29:D1:567:G:H5'	2.35	0.56
29:D1:606:C:H6	29:D1:606:C:C5'	2.18	0.56
29:D1:682:U:C4	29:D1:699:A:C2	2.94	0.56
29:D1:703:G:N3	29:D1:703:G:C2'	2.62	0.56
29:D1:703:G:N1	29:D1:704:U:C2	2.74	0.56
29:D1:716:A:C6	29:D1:721:G:N2	2.73	0.56
29:D1:729:C:H6	29:D1:729:C:O5'	1.89	0.56
29:D1:771:A:N1	29:D1:772:U:N3	2.54	0.56
29:D1:869:G:H3'	29:D1:870:G:C8	2.41	0.56
29:D1:1029:G:H2'	29:D1:1030:A:C5'	2.36	0.56
29:D1:1033:U:H2'	29:D1:1034:U:O2	2.05	0.56
29:D1:1035:G:C2'	29:D1:1036:A:H5'	2.36	0.56
29:D1:1311:G:C2'	29:D1:1312:C:O5'	2.54	0.56
29:D1:1496:C:C2	29:D1:1521:G:N2	2.74	0.56
29:D1:1887:A:N7	29:D1:2348:A:H2	2.03	0.56
29:D1:2280:A:H4'	29:D1:2281:A:OP1	2.06	0.56
29:D1:2295:A:H62	29:D1:2296:A:N6	2.00	0.56
29:D1:2308:C:H2'	29:D1:2309:A:C8	2.40	0.56
29:D1:2308:C:H2'	29:D1:2309:A:H8	1.70	0.56
29:D1:2642:A:C2	29:D1:2643:A:C6	2.93	0.56
29:D1:2642:A:H2	29:D1:2643:A:C5	2.23	0.56
29:D1:2700:G:H5"	29:D1:2701:U:OP2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2836:C:O2	29:D1:2837:A:C8	2.59	0.56
29:D1:2892:A:H2'	29:D1:2893:C:C6	2.41	0.56
29:D1:2914:G:C5	29:D1:2915:U:C5	2.93	0.56
29:D1:3020:U:H2'	29:D1:3021:A:H8	1.70	0.56
29:D1:3101:G:O2'	29:D1:3102:G:H5"	2.05	0.56
29:D1:3110:C:C2	29:D1:3111:U:C5	2.94	0.56
29:D1:3322:A:C5	29:D1:3323:A:N7	2.74	0.56
29:D1:3371:G:O6	29:D1:3372:A:N1	2.39	0.56
30:D2:86:U:H4'	30:D2:87:G:O5'	2.05	0.56
34:DC:330:GLY:O	34:DC:331:ASN:O	2.24	0.56
37:DF:43:LEU:N	37:DF:84:VAL:CB	2.69	0.56
38:DG:148:VAL:O	38:DG:152:GLY:CA	2.54	0.56
49:DT:84:TYR:O	49:DT:85:LEU:O	2.24	0.56
54:DY:131:SER:C	54:DY:133:LEU:N	2.54	0.56
1:A1:210:A:C4	1:A1:211:U:C5	2.94	0.56
1:A1:440:U:O2'	1:A1:441:A:OP1	2.22	0.56
1:A1:841:U:H2'	1:A1:842:C:O4'	2.06	0.56
1:A1:1063:U:C2	1:A1:1064:G:C8	2.94	0.56
1:A1:1100:G:N3	1:A1:1100:G:O4'	2.39	0.56
1:A1:1123:C:C2'	1:A1:1124:A:O5'	2.53	0.56
1:A1:1141:G:C3'	1:A1:1142:A:C5'	2.70	0.56
1:A1:1294:G:O2'	1:A1:1321:A:N1	2.33	0.56
1:A1:1332:C:O2'	1:A1:1333:C:C6	2.59	0.56
1:A1:1418:G:H2'	1:A1:1419:G:H5'	1.87	0.56
1:A1:1723:U:C4	1:A1:1724:U:C4	2.94	0.56
1:A1:1725:U:O5'	1:A1:1725:U:C6	2.59	0.56
1:A1:1778:G:C2	1:A1:1779:U:C6	2.93	0.56
3:AB:99:LYS:CB	3:AB:117:THR:HA	2.36	0.56
3:AB:165:VAL:HA	3:AB:202:GLY:HA3	1.88	0.56
13:AL:16:ARG:HA	13:AL:22:VAL:HA	1.88	0.56
16:AO:54:ASP:CA	16:AO:59:GLY:HA2	2.27	0.56
17:AP:126:LYS:O	17:AP:127:VAL:CB	2.54	0.56
29:B1:341:G:N2	31:B3:24:G:O6	2.39	0.56
29:B1:585:A:C4	29:B1:586:C:C5	2.94	0.56
29:B1:609:G:O2'	29:B1:610:G:C5'	2.46	0.56
29:B1:699:A:H3'	29:B1:699:A:C8	2.41	0.56
29:B1:747:A:P	29:B1:747:A:H8	2.29	0.56
29:B1:776:U:C3'	29:B1:777:U:H5"	2.36	0.56
29:B1:779:G:C8	29:B1:779:G:C3'	2.87	0.56
29:B1:915:A:H8	29:B1:916:G:H4'	1.70	0.56
29:B1:958:C:H4'	29:B1:2799:A:O2'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1186:G:H2'	29:B1:1187:C:O5'	2.05	0.56
29:B1:1205:A:C5	29:B1:1206:G:N7	2.74	0.56
29:B1:1358:C:C2	29:B1:1359:C:C5	2.94	0.56
29:B1:1444:G:H2'	29:B1:1445:U:O5'	2.06	0.56
29:B1:1447:G:C8	29:B1:2355:G:O6	2.58	0.56
29:B1:1685:C:H5	29:B1:3069:G:N2	2.01	0.56
29:B1:1743:G:C2'	29:B1:1744:G:H5'	2.36	0.56
29:B1:1830:G:C8	29:B1:1830:G:OP2	2.59	0.56
29:B1:2215:A:N3	29:B1:2215:A:C2'	2.65	0.56
29:B1:2254:U:C6	29:B1:2254:U:OP2	2.58	0.56
29:B1:2341:A:H2'	29:B1:2342:U:C6	2.40	0.56
29:B1:2555:G:H1'	29:B1:2556:C:P	2.45	0.56
29:B1:2580:A:O2'	29:B1:2581:U:OP1	2.21	0.56
29:B1:2666:C:H2'	29:B1:2666:C:O2	2.05	0.56
29:B1:2806:U:HO2'	29:B1:2807:U:H5'	1.69	0.56
29:B1:3021:A:C4	29:B1:3023:U:C4	2.94	0.56
29:B1:3102:G:H2'	29:B1:3103:A:O5'	2.06	0.56
29:B1:3171:U:O2'	29:B1:3172:A:OP2	2.23	0.56
29:B1:3213:A:H3'	29:B1:3213:A:H8	1.70	0.56
29:B1:3283:U:H2'	29:B1:3284:G:C8	2.41	0.56
29:B1:3298:C:N3	29:B1:3391:A:C2	2.75	0.56
36:BE:185:PHE:CB	36:BE:186:GLU:CB	2.84	0.56
37:BF:7:PRO:N	38:BG:74:SER:H	2.03	0.56
38:BG:203:TRP:O	38:BG:204:PRO:CB	2.53	0.56
45:BP:99:LEU:C	45:BP:101:ARG:H	2.10	0.56
46:BQ:105:LYS:O	46:BQ:107:LEU:N	2.39	0.56
47:BR:75:GLY:O	47:BR:76:ALA:HB2	2.06	0.56
55:BZ:35:ARG:O	55:BZ:36:GLN:C	2.48	0.56
1:C1:89:G:H2'	1:C1:90:C:C6	2.39	0.56
1:C1:97:C:H2'	1:C1:98:U:O4'	2.06	0.56
1:C1:120:U:O4	1:C1:297:U:O4	2.23	0.56
1:C1:173:A:N6	1:C1:174:U:C6	2.73	0.56
1:C1:217:A:H1'	1:C1:218:A:P	2.46	0.56
1:C1:521:A:C2	1:C1:523:G:C6	2.94	0.56
1:C1:576:G:O2'	1:C1:580:A:C6	2.59	0.56
1:C1:723:G:C6	1:C1:724:C:N3	2.74	0.56
1:C1:932:U:O4'	1:C1:933:A:N3	2.39	0.56
1:C1:1056:U:H5"	1:C1:1057:U:H5	1.71	0.56
1:C1:1407:U:C5	1:C1:1408:G:C8	2.94	0.56
1:C1:1603:U:H2'	1:C1:1604:U:C6	2.41	0.56
1:C1:1734:U:N3	1:C1:1735:U:C5	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:38:PHE:CB	2:CA:39:ASN:HA	2.35	0.56
5:CD:99:MET:C	5:CD:101:GLY:N	2.63	0.56
14:CM:134:ARG:O	14:CM:137:ALA:N	2.39	0.56
17:CP:44:GLY:O	17:CP:45:GLY:C	2.49	0.56
17:CP:104:LEU:O	17:CP:105:ALA:CB	2.53	0.56
21:CT:37:SER:C	21:CT:39:ASP:H	2.13	0.56
28:Ch:56:UNK:C	28:Ch:58:UNK:N	2.68	0.56
29:D1:34:A:N3	29:D1:810:A:O2'	2.37	0.56
29:D1:46:U:H3'	29:D1:46:U:C6	2.40	0.56
29:D1:264:G:C4	29:D1:265:A:N7	2.74	0.56
29:D1:311:C:N4	29:D1:312:C:N4	2.53	0.56
29:D1:563:U:C3'	29:D1:564:G:C5'	2.67	0.56
29:D1:835:G:N2	29:D1:857:G:H1'	2.21	0.56
29:D1:943:U:O2	29:D1:1431:G:H2'	2.06	0.56
29:D1:1065:A:O3'	29:D1:1066:G:H8	1.89	0.56
29:D1:1140:G:H2'	29:D1:1140:G:N3	2.21	0.56
29:D1:1313:G:N3	29:D1:1314:C:C6	2.74	0.56
29:D1:1679:A:C2	29:D1:1680:G:C8	2.93	0.56
29:D1:1894:U:C2	29:D1:1895:A:C8	2.94	0.56
29:D1:2213:A:C6	29:D1:2214:A:C6	2.94	0.56
29:D1:2341:A:OP2	29:D1:2341:A:H8	1.89	0.56
29:D1:2584:G:OP1	29:D1:2584:G:C4'	2.54	0.56
29:D1:2601:A:O2'	29:D1:2602:G:C5'	2.51	0.56
29:D1:2615:G:C6	29:D1:2616:C:N4	2.74	0.56
29:D1:2699:G:H8	29:D1:2699:G:C5'	2.17	0.56
29:D1:2703:A:H5"	29:D1:2704:A:H5"	1.81	0.56
29:D1:2947:G:H2'	29:D1:2948:C:C6	2.41	0.56
29:D1:3038:U:C2'	29:D1:3039:C:O5'	2.52	0.56
29:D1:3217:C:C1'	29:D1:3220:G:O2'	2.54	0.56
37:DF:21:THR:CA	37:DF:112:THR:HA	2.35	0.56
45:DP:99:LEU:C	45:DP:101:ARG:H	2.10	0.56
45:DP:139:GLY:O	45:DP:143:THR:N	2.39	0.56
47:DR:37:ALA:C	47:DR:39:ARG:N	2.64	0.56
57:Db:19:ARG:O	57:Db:20:HIS:O	2.24	0.56
57:Db:107:VAL:O	57:Db:109:LEU:C	2.49	0.56
58:Dc:63:ARG:C	58:Dc:65:ALA:N	2.62	0.56
59:Dd:5:THR:O	59:Dd:6:PRO:C	2.49	0.56
61:Df:11:TYR:HA	61:Df:20:HIS:HA	1.87	0.56
1:A1:364:G:C2	1:A1:381:C:C4	2.94	0.55
1:A1:402:C:O2	1:A1:403:G:C4'	2.50	0.55
1:A1:427:C:C6	1:A1:427:C:H5'	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:432:G:O2'	1:A1:433:C:H5'	2.06	0.55
1:A1:438:A:H8	1:A1:438:A:O5'	1.88	0.55
1:A1:492:A:C4	1:A1:494:U:H5"	2.41	0.55
1:A1:544:A:H8	1:A1:544:A:OP2	1.88	0.55
1:A1:604:A:C6	1:A1:605:A:C6	2.94	0.55
1:A1:606:A:C4	1:A1:608:U:C5	2.95	0.55
1:A1:693:U:C2'	1:A1:694:U:OP1	2.54	0.55
1:A1:755:A:C4'	1:A1:756:A:OP1	2.53	0.55
1:A1:778:G:H2'	1:A1:779:U:H2'	1.87	0.55
1:A1:1051:G:C2	1:A1:1052:U:N3	2.73	0.55
1:A1:1147:A:C6	1:A1:1148:C:C4	2.93	0.55
1:A1:1149:G:N3	1:A1:1150:G:N7	2.53	0.55
1:A1:1172:G:C6	1:A1:1173:C:C4	2.95	0.55
1:A1:1287:A:C2	1:A1:1288:G:H1'	2.41	0.55
1:A1:1501:C:H2'	1:A1:1502:G:C5'	2.36	0.55
1:A1:1631:A:H5"	74:A1:1990:OHX:N3	2.20	0.55
1:A1:1689:A:H5'	1:A1:1690:G:OP2	2.07	0.55
1:A1:1729:C:H3'	1:A1:1730:A:H8	1.71	0.55
5:AD:164:PRO:O	5:AD:167:ARG:N	2.38	0.55
13:AL:76:PRO:O	13:AL:81:ILE:N	2.39	0.55
16:AO:37:PHE:O	16:AO:39:GLN:N	2.39	0.55
29:B1:53:G:C4	29:B1:54:C:C5	2.94	0.55
29:B1:398:A:H4'	29:B1:399:A:H5'	1.87	0.55
29:B1:547:G:C8	29:B1:548:G:C5	2.95	0.55
29:B1:572:A:C5	29:B1:573:C:C5	2.94	0.55
29:B1:594:U:C2	29:B1:595:G:C5	2.93	0.55
29:B1:643:U:O5'	29:B1:643:U:H6	1.89	0.55
29:B1:927:C:O2'	29:B1:928:C:H5'	2.05	0.55
29:B1:1018:G:C4	29:B1:1019:G:N7	2.74	0.55
29:B1:1311:G:O2'	29:B1:2381:G:H4'	2.06	0.55
29:B1:1325:U:OP1	29:B1:1325:U:H4'	2.06	0.55
29:B1:1437:C:O2	29:B1:1437:C:C2'	2.48	0.55
29:B1:1556:C:N3	29:B1:2169:G:N7	2.54	0.55
29:B1:1909:A:C6	29:B1:1910:A:C2	2.94	0.55
29:B1:2157:G:N7	33:BB:151:PRO:CB	2.68	0.55
29:B1:2278:C:C4	29:B1:2307:G:C2	2.93	0.55
29:B1:2280:A:C4	29:B1:2282:U:H5	2.25	0.55
29:B1:2444:C:H3'	29:B1:2445:A:C5'	2.36	0.55
29:B1:2626:A:H3'	29:B1:2626:A:N3	2.21	0.55
29:B1:2665:U:O4	29:B1:2703:A:H4'	2.06	0.55
29:B1:2676:A:C2	29:B1:2680:A:C2	2.92	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2820:A:C5’	29:B1:2821:C:OP2	2.54	0.55
29:B1:2821:C:H6	29:B1:2821:C:H3’	1.70	0.55
29:B1:2842:U:C6	29:B1:2842:U:O5’	2.58	0.55
29:B1:2860:U:H1’	29:B1:2939:G:OP1	2.06	0.55
29:B1:2929:C:N4	29:B1:2930:A:N7	2.54	0.55
29:B1:2985:C:H2’	29:B1:2986:U:O5’	2.06	0.55
29:B1:2985:C:C2’	29:B1:2986:U:O5’	2.54	0.55
29:B1:2994:A:H2’	29:B1:2995:A:C8	2.42	0.55
29:B1:3078:U:C4’	29:B1:3079:U:O5’	2.51	0.55
29:B1:3101:G:C2’	29:B1:3102:G:C5’	2.73	0.55
29:B1:3102:G:C2’	29:B1:3103:A:O5’	2.53	0.55
29:B1:3197:G:C2’	29:B1:3198:U:OP1	2.55	0.55
29:B1:3265:C:H6	29:B1:3265:C:H5’	1.71	0.55
29:B1:3317:U:OP1	29:B1:3318:G:O5’	2.23	0.55
30:B2:14:U:H2’	30:B2:15:C:O4’	2.06	0.55
30:B2:48:U:H2’	30:B2:49:G:N7	2.21	0.55
30:B2:73:C:N4	30:B2:74:C:H41	2.03	0.55
31:B3:79:A:C5	31:B3:80:A:C5	2.94	0.55
31:B3:114:G:OP2	31:B3:114:G:C8	2.59	0.55
36:BE:272:TYR:CB	36:BE:275:THR:HA	2.36	0.55
38:BG:37:ASN:O	38:BG:38:LYS:C	2.48	0.55
38:BG:205:PHE:O	38:BG:206:LYS:CB	2.53	0.55
40:BI:72:LYS:O	40:BI:73:SER:C	2.48	0.55
42:BK:80:LEU:C	42:BK:82:ARG:H	2.14	0.55
49:BT:75:ILE:O	49:BT:76:ILE:CB	2.54	0.55
1:C1:235:G:H2’	1:C1:236:A:H8	1.71	0.55
1:C1:245:U:N3	1:C1:247:A:OP2	2.38	0.55
1:C1:294:C:O2	1:C1:294:C:H2’	2.05	0.55
1:C1:365:G:C6	1:C1:377:G:O6	2.59	0.55
1:C1:526:A:N3	1:C1:526:A:C2’	2.64	0.55
1:C1:773:C:O2	1:C1:774:A:H8	1.89	0.55
1:C1:850:A:N1	1:C1:851:U:C4	2.74	0.55
1:C1:1072:C:H3’	1:C1:1073:G:H5”	1.87	0.55
1:C1:1110:G:O2’	1:C1:1111:G:O5’	2.17	0.55
1:C1:1176:G:C6	1:C1:1177:C:N4	2.73	0.55
1:C1:1196:A:O2’	1:C1:1197:C:OP2	2.18	0.55
1:C1:1398:U:H4’	1:C1:1399:C:C5	2.40	0.55
2:CA:65:ALA:C	2:CA:67:ILE:N	2.64	0.55
6:CE:26:ALA:C	6:CE:28:LEU:N	2.61	0.55
29:D1:34:A:H2’	29:D1:35:A:C1’	2.36	0.55
29:D1:79:U:C2	29:D1:80:G:C8	2.93	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:156:G:N7	29:D1:157:A:H1'	2.21	0.55
29:D1:184:U:C2	29:D1:185:C:C6	2.94	0.55
29:D1:547:G:H5"	29:D1:548:G:N7	2.21	0.55
29:D1:593:C:H2'	29:D1:594:U:C5'	2.35	0.55
29:D1:684:G:C6	29:D1:685:G:N7	2.74	0.55
29:D1:687:U:O2'	29:D1:688:G:H5'	2.06	0.55
29:D1:804:C:C4	29:D1:940:G:N1	2.74	0.55
29:D1:861:C:OP2	29:D1:862:U:OP2	2.24	0.55
29:D1:915:A:C8	29:D1:915:A:C3'	2.86	0.55
29:D1:987:U:C2	29:D1:1098:A:C2	2.94	0.55
29:D1:993:G:H21	29:D1:2637:A:C3'	2.02	0.55
29:D1:1138:U:C2'	29:D1:1139:G:H5"	2.34	0.55
29:D1:1232:C:C4	29:D1:1261:G:N3	2.75	0.55
29:D1:1356:U:OP2	29:D1:1357:G:C8	2.59	0.55
29:D1:1455:U:O4	29:D1:3077:A:OP2	2.23	0.55
29:D1:1488:G:N7	74:D1:3588:OHX:N4	2.54	0.55
29:D1:1540:U:H2'	29:D1:1541:G:C5'	2.36	0.55
29:D1:1916:U:O2'	29:D1:1917:C:H5'	2.06	0.55
29:D1:2221:G:H3'	29:D1:2221:G:C8	2.41	0.55
29:D1:2254:U:C3'	74:D1:3415:OHX:N5	2.69	0.55
29:D1:2290:C:N3	29:D1:2303:A:C2	2.74	0.55
29:D1:2444:C:H3'	29:D1:2445:A:C5'	2.36	0.55
29:D1:2465:G:C2'	29:D1:2466:G:H8	2.16	0.55
29:D1:2802:A:H8	61:Df:57:VAL:H	1.53	0.55
29:D1:2847:A:N3	29:D1:2848:G:C8	2.74	0.55
29:D1:3044:G:O2'	29:D1:3045:G:H5'	2.06	0.55
29:D1:3057:U:O3'	29:D1:3058:U:H4'	2.06	0.55
29:D1:3120:C:HO2'	29:D1:3121:U:H6	1.55	0.55
30:D2:12:U:P	30:D2:68:C:H4'	2.45	0.55
30:D2:48:U:C2'	30:D2:49:G:OP2	2.54	0.55
30:D2:56:A:H5"	30:D2:56:A:H8	1.71	0.55
36:DE:141:PRO:C	36:DE:143:LYS:N	2.58	0.55
36:DE:179:ARG:O	36:DE:180:PHE:C	2.49	0.55
40:DI:2:LYS:HA	40:DI:60:GLY:O	2.06	0.55
42:DK:34:SER:O	42:DK:35:LYS:C	2.49	0.55
42:DK:80:LEU:C	42:DK:82:ARG:H	2.14	0.55
42:DK:107:ASP:O	42:DK:108:GLU:O	2.24	0.55
73:DM:197:PHE:O	73:DM:198:PRO:C	2.49	0.55
43:DN:24:LYS:CB	43:DN:31:LYS:HA	2.36	0.55
45:DP:15:LEU:HA	45:DP:42:ASN:O	2.06	0.55
45:DP:97:ALA:O	45:DP:100:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DQ:109:ALA:O	46:DQ:111:LYS:N	2.39	0.55
48:DS:25:ASP:C	48:DS:27:ASN:N	2.63	0.55
1:A1:12:U:H5"	1:A1:13:C:OP2	2.05	0.55
1:A1:183:U:H1'	1:A1:184:C:O5'	2.06	0.55
1:A1:276:C:O2'	1:A1:277:U:P	2.63	0.55
1:A1:515:A:OP2	74:A1:1936:OHX:N3	2.39	0.55
1:A1:905:A:C2	1:A1:906:A:H1'	2.41	0.55
1:A1:1058:U:O2	1:A1:1060:U:H5'	2.06	0.55
1:A1:1165:G:C6	1:A1:1166:A:C5	2.95	0.55
1:A1:1233:G:H2'	1:A1:1234:A:O4'	2.05	0.55
1:A1:1322:A:H2'	1:A1:1323:C:C6	2.41	0.55
1:A1:1373:C:H5'	1:A1:1374:C:OP2	2.06	0.55
1:A1:1391:A:C4	1:A1:1392:U:C5	2.93	0.55
1:A1:1611:A:H2'	1:A1:1612:U:O4'	2.07	0.55
1:A1:1720:G:H2'	1:A1:1721:A:C8	2.42	0.55
2:AA:28:ASN:HA	2:AA:45:VAL:HA	1.88	0.55
3:AB:118:ALA:CB	3:AB:124:ALA:HB2	2.36	0.55
4:AC:39:VAL:HA	4:AC:47:GLU:O	2.06	0.55
4:AC:108:LYS:O	4:AC:109:LEU:C	2.49	0.55
7:AF:85:VAL:O	7:AF:86:ILE:O	2.24	0.55
10:AI:124:THR:O	10:AI:125:PRO:CB	2.55	0.55
29:B1:40:A:C5	29:B1:937:G:C6	2.94	0.55
29:B1:199:A:C6	29:B1:219:A:C6	2.94	0.55
29:B1:282:G:H4'	29:B1:283:G:H8	1.71	0.55
29:B1:416:A:N1	29:B1:417:A:C5	2.74	0.55
29:B1:423:A:O2'	29:B1:424:G:O5'	2.24	0.55
29:B1:546:C:N4	29:B1:547:G:N3	2.54	0.55
29:B1:900:G:N3	29:B1:1589:A:C6	2.74	0.55
29:B1:1180:A:C6	29:B1:1182:A:N7	2.74	0.55
29:B1:1193:A:C8	29:B1:1194:G:N2	2.75	0.55
29:B1:1268:G:N2	29:B1:1271:A:H61	2.03	0.55
29:B1:1356:U:OP2	29:B1:1357:G:C8	2.59	0.55
29:B1:1500:G:H2'	29:B1:1501:U:C6	2.41	0.55
29:B1:1631:C:O5'	29:B1:1813:A:N1	2.39	0.55
29:B1:1835:A:H2'	29:B1:1836:C:C6	2.41	0.55
29:B1:2196:C:C4	29:B1:2242:A:N7	2.75	0.55
29:B1:2523:A:H1'	29:B1:2524:A:O5'	2.06	0.55
29:B1:2675:C:N4	29:B1:2676:A:N6	2.51	0.55
29:B1:2689:A:H4'	29:B1:2690:G:C5'	2.33	0.55
29:B1:2847:A:C2	29:B1:2848:G:H1'	2.42	0.55
29:B1:3019:U:C4	29:B1:3020:U:C4	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3107:U:H6	29:B1:3107:U:O5'	1.89	0.55
29:B1:3305:A:C4	29:B1:3306:U:C2	2.94	0.55
30:B2:47:C:H2'	30:B2:47:C:O2	2.05	0.55
31:B3:81:U:C6	31:B3:82:U:H5"	2.41	0.55
31:B3:131:A:O2'	31:B3:132:G:P	2.64	0.55
34:BC:195:ALA:O	34:BC:196:ARG:C	2.47	0.55
36:BE:255:PRO:O	36:BE:257:GLU:N	2.40	0.55
36:BE:273:ARG:C	36:BE:275:THR:N	2.60	0.55
38:BG:202:LEU:C	38:BG:204:PRO:N	2.60	0.55
38:BG:222:HIS:CB	38:BG:227:GLY:HA3	2.36	0.55
40:BI:85:GLY:O	40:BI:186:PHE:HA	2.05	0.55
44:BO:78:GLY:N	44:BO:79:ALA:CB	2.69	0.55
1:C1:213:A:N6	1:C1:214:G:C2	2.74	0.55
1:C1:452:A:C2	1:C1:454:U:O5'	2.59	0.55
1:C1:520:A:C4	1:C1:521:A:C8	2.94	0.55
1:C1:524:U:C2	1:C1:527:A:N1	2.74	0.55
1:C1:772:G:N7	1:C1:773:C:N4	2.54	0.55
1:C1:902:G:H8	1:C1:902:G:O5'	1.89	0.55
1:C1:914:G:H3'	74:C1:1927:OHX:N3	2.22	0.55
1:C1:1030:A:H3'	1:C1:1031:U:C5'	2.33	0.55
1:C1:1063:U:C2	1:C1:1064:G:C8	2.95	0.55
1:C1:1074:G:H2'	1:C1:1075:C:H5"	1.87	0.55
1:C1:1267:G:O2'	1:C1:1268:G:H5'	2.06	0.55
1:C1:1294:G:H2'	1:C1:1295:G:O4'	2.06	0.55
1:C1:1335:U:C2	1:C1:1336:A:N7	2.74	0.55
1:C1:1388:A:C5	1:C1:1411:A:N6	2.75	0.55
1:C1:1512:G:H2'	1:C1:1513:G:C8	2.41	0.55
1:C1:1557:U:H3'	1:C1:1557:U:O2	2.05	0.55
1:C1:1667:A:H2'	1:C1:1668:G:C8	2.41	0.55
11:CJ:110:THR:HA	11:CJ:113:ASP:CB	2.37	0.55
15:CN:102:ARG:C	15:CN:104:THR:N	2.61	0.55
17:CP:95:PHE:O	17:CP:97:ASP:N	2.39	0.55
29:D1:66:A:H2	29:D1:77:A:O3'	1.90	0.55
29:D1:187:A:C4	29:D1:211:A:C6	2.94	0.55
29:D1:306:A:N6	29:D1:2783:U:H3	2.04	0.55
29:D1:512:U:N3	29:D1:579:G:C6	2.74	0.55
29:D1:535:G:C8	29:D1:536:U:O4	2.60	0.55
29:D1:931:C:H3'	29:D1:932:U:H2'	1.88	0.55
29:D1:1063:G:C1'	29:D1:1064:A:O5'	2.51	0.55
29:D1:1175:C:C2'	29:D1:1176:C:O5'	2.54	0.55
29:D1:1429:G:H8	29:D1:1429:G:O5'	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1675:G:N2	29:D1:1773:C:C4	2.75	0.55
29:D1:1733:G:H2'	29:D1:1734:G:C8	2.41	0.55
29:D1:1933:A:N7	29:D1:1934:G:C8	2.74	0.55
29:D1:2733:A:H2'	29:D1:2734:A:C8	2.41	0.55
29:D1:2842:U:O5'	29:D1:2842:U:C6	2.59	0.55
29:D1:2888:U:N3	29:D1:2910:A:C2	2.75	0.55
29:D1:2896:A:O2'	29:D1:2897:A:C5'	2.54	0.55
29:D1:2963:C:O2'	29:D1:2964:G:H5'	2.06	0.55
29:D1:3009:G:C2'	29:D1:3010:U:H5'	2.36	0.55
29:D1:3021:A:C5	29:D1:3023:U:O4	2.59	0.55
29:D1:3194:C:H3'	29:D1:3194:C:H6	1.72	0.55
29:D1:3326:G:C6	29:D1:3327:G:N7	2.74	0.55
29:D1:3377:G:H1'	29:D1:3378:C:H5'	1.86	0.55
30:D2:67:G:C2	30:D2:68:C:C6	2.94	0.55
30:D2:71:G:C2	30:D2:108:A:C2	2.94	0.55
31:D3:42:G:O6	31:D3:103:G:C2	2.59	0.55
31:D3:125:U:C4	74:D3:205:OHX:N3	2.73	0.55
34:DC:197:GLU:O	34:DC:198:HIS:C	2.49	0.55
36:DE:134:ALA:H	36:DE:135:VAL:HA	1.69	0.55
38:DG:159:GLN:O	38:DG:162:PRO:CB	2.54	0.55
41:DJ:164:LYS:O	41:DJ:165:ILE:C	2.48	0.55
43:DN:21:VAL:O	43:DN:34:ALA:CB	2.54	0.55
45:DP:37:ARG:HA	45:DP:108:ILE:HA	1.87	0.55
59:Dd:37:CYS:C	74:Dd:101:OHX:N5	2.64	0.55
1:A1:13:C:C5'	3:AB:161:LYS:O	2.55	0.55
1:A1:32:U:O2'	1:A1:33:U:H5'	2.06	0.55
1:A1:450:U:H2'	1:A1:450:U:O2	2.05	0.55
1:A1:709:C:H42	1:A1:730:G:C1'	2.19	0.55
1:A1:1039:A:O2'	1:A1:1040:G:P	2.64	0.55
1:A1:1145:U:C3'	1:A1:1146:G:H5"	2.35	0.55
1:A1:1416:G:C4	1:A1:1417:A:C8	2.94	0.55
1:A1:1571:C:H5"	1:A1:1572:G:OP2	2.05	0.55
1:A1:1607:G:OP2	11:AJ:125:GLU:HA	2.06	0.55
1:A1:1631:A:H5'	1:A1:1764:C:H1'	1.88	0.55
1:A1:1661:U:H2'	1:A1:1662:G:H8	1.68	0.55
1:A1:1713:G:N2	1:A1:1714:A:C8	2.74	0.55
2:AA:172:LEU:O	2:AA:176:LEU:CB	2.54	0.55
7:AF:97:TYR:O	7:AF:98:ASN:CB	2.54	0.55
11:AJ:25:GLY:H	11:AJ:64:ASP:HA	1.70	0.55
12:AK:46:LEU:C	12:AK:48:ASN:N	2.63	0.55
16:AO:119:LYS:O	16:AO:121:VAL:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:227:ALA:O	21:AT:228:LYS:C	2.50	0.55
29:B1:64:G:H1'	29:B1:77:A:C2	2.42	0.55
29:B1:125:C:C2'	29:B1:126:U:H5'	2.34	0.55
29:B1:264:G:C6	29:B1:265:A:C5	2.94	0.55
29:B1:323:A:N7	29:B1:324:A:N7	2.54	0.55
29:B1:341:G:N2	31:B3:24:G:C6	2.74	0.55
29:B1:347:G:N1	29:B1:348:A:C6	2.75	0.55
29:B1:361:A:C2	29:B1:928:C:O4'	2.59	0.55
29:B1:395:A:H2'	29:B1:395:A:N3	2.21	0.55
29:B1:606:C:O3'	29:B1:607:A:O4'	2.24	0.55
29:B1:618:C:N3	29:B1:619:A:N7	2.53	0.55
29:B1:747:A:OP1	29:B1:747:A:H8	1.89	0.55
29:B1:952:A:H8	29:B1:952:A:H3'	1.71	0.55
29:B1:977:C:H42	29:B1:1105:A:N6	2.04	0.55
29:B1:1115:G:C8	29:B1:1115:G:C3'	2.88	0.55
29:B1:1128:U:O2	29:B1:1128:U:C2'	2.53	0.55
29:B1:1150:A:C2	29:B1:1151:U:H1'	2.42	0.55
29:B1:1164:G:C4	29:B1:1165:A:C8	2.94	0.55
29:B1:1188:U:H3	29:B1:1317:A:H62	1.54	0.55
29:B1:1449:A:H4'	29:B1:2983:C:C2	2.41	0.55
29:B1:1455:U:C2	29:B1:3078:U:C5	2.94	0.55
29:B1:1498:A:C6	29:B1:1519:G:C6	2.95	0.55
29:B1:1654:A:N3	29:B1:1655:G:H1'	2.21	0.55
29:B1:1689:U:O2'	29:B1:1690:C:H5'	2.06	0.55
29:B1:1919:G:C2	29:B1:1920:U:N3	2.74	0.55
29:B1:1942:U:H1'	29:B1:3342:A:C2	2.41	0.55
29:B1:2169:G:O6	74:B1:3447:OHX:N4	2.39	0.55
29:B1:2214:A:H2'	29:B1:2215:A:C8	2.41	0.55
29:B1:2223:A:C2'	29:B1:2224:A:H8	2.20	0.55
29:B1:2296:A:C2	29:B1:2919:A:C1'	2.89	0.55
29:B1:2581:U:P	29:B1:2581:U:H6	2.30	0.55
29:B1:2603:G:C2	29:B1:2604:U:H1'	2.41	0.55
29:B1:2681:U:O2'	29:B1:2682:C:C5'	2.54	0.55
29:B1:2896:A:H5'	29:B1:2896:A:H8	1.70	0.55
29:B1:2994:A:O2'	29:B1:2995:A:H5'	2.06	0.55
29:B1:3196:U:H1'	29:B1:3197:G:C6	2.41	0.55
30:B2:43:U:H2'	30:B2:44:C:H5'	1.87	0.55
30:B2:49:G:OP2	30:B2:49:G:C4	2.59	0.55
30:B2:64:A:C1'	30:B2:65:G:C5'	2.84	0.55
31:B3:48:A:N1	31:B3:51:G:C6	2.73	0.55
31:B3:56:G:N3	31:B3:57:C:C6	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:241:THR:O	36:BE:243:ALA:N	2.40	0.55
37:BF:3:ALA:O	37:BF:4:GLN:O	2.22	0.55
37:BF:149:ILE:CB	37:BF:150:LYS:CB	2.85	0.55
38:BG:69:ALA:C	38:BG:71:ALA:H	2.14	0.55
40:BI:111:PHE:HA	40:BI:112:ILE:O	2.06	0.55
41:BJ:34:TYR:O	41:BJ:35:ASP:CB	2.54	0.55
42:BK:87:LYS:O	42:BK:89:TYR:N	2.39	0.55
45:BP:185:ALA:O	45:BP:186:ALA:HB3	2.07	0.55
53:BX:24:SER:C	53:BX:26:GLN:H	2.14	0.55
61:Bf:40:LYS:O	61:Bf:42:ARG:N	2.40	0.55
1:C1:37:U:P	1:C1:531:C:HO2'	2.30	0.55
1:C1:47:A:C2	1:C1:100:A:C4	2.95	0.55
1:C1:472:U:H2'	1:C1:473:A:O4'	2.05	0.55
1:C1:500:C:H2'	1:C1:501:U:H6	1.71	0.55
1:C1:756:A:H2'	1:C1:757:A:H8	1.72	0.55
1:C1:1138:A:H2'	1:C1:1139:A:C8	2.41	0.55
1:C1:1631:A:C6	1:C1:1632:C:O2	2.59	0.55
1:C1:1750:A:C6	1:C1:1751:C:C4	2.94	0.55
1:C1:1757:G:C4	1:C1:1758:U:C5	2.95	0.55
14:CM:67:MET:O	14:CM:69:LYS:N	2.40	0.55
28:Ch:62:UNK:C	28:Ch:64:UNK:N	2.69	0.55
29:D1:151:A:H2'	29:D1:152:U:C5	2.42	0.55
29:D1:199:A:C4	29:D1:201:A:C8	2.94	0.55
29:D1:287:G:O2'	29:D1:288:C:C5'	2.54	0.55
29:D1:326:U:H4'	29:D1:327:A:OP2	2.06	0.55
29:D1:398:A:H4'	29:D1:399:A:H5'	1.86	0.55
29:D1:500:C:C2'	29:D1:501:A:H5'	2.36	0.55
29:D1:514:G:C2'	29:D1:515:C:N1	2.68	0.55
29:D1:692:A:C2	29:D1:693:A:C4	2.95	0.55
29:D1:733:G:O6	29:D1:737:G:N1	2.40	0.55
29:D1:761:A:N1	29:D1:762:U:H1'	2.21	0.55
29:D1:881:C:C2	29:D1:1850:A:C8	2.94	0.55
29:D1:913:A:C2	29:D1:2134:G:N3	2.75	0.55
29:D1:1062:A:O2'	29:D1:1063:G:P	2.65	0.55
29:D1:1294:A:O2'	29:D1:1295:G:OP1	2.25	0.55
29:D1:1349:G:OP2	29:D1:1349:G:C8	2.52	0.55
29:D1:1440:G:C4	29:D1:1441:G:C8	2.94	0.55
29:D1:1659:U:N3	29:D1:1660:C:N4	2.54	0.55
29:D1:1684:U:H6	29:D1:1684:U:H3'	1.71	0.55
29:D1:1736:G:C6	29:D1:1737:U:C4	2.94	0.55
29:D1:1890:U:C2	29:D1:1891:A:C8	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1909:A:N1	29:D1:1910:A:N3	2.54	0.55
29:D1:2119:A:C8	29:D1:2120:A:C2	2.94	0.55
29:D1:2122:G:O2'	29:D1:2123:G:H5'	2.07	0.55
29:D1:2343:C:H2'	29:D1:2344:U:C6	2.42	0.55
29:D1:2515:A:H2'	29:D1:2516:U:C6	2.41	0.55
29:D1:2561:A:N6	29:D1:2579:G:C5	2.74	0.55
29:D1:2969:A:C6	29:D1:2970:C:N4	2.74	0.55
29:D1:3026:G:N7	74:D1:3413:OHX:N5	2.54	0.55
29:D1:3045:G:C2'	29:D1:3046:A:O5'	2.54	0.55
29:D1:3097:C:H2'	29:D1:3098:G:C8	2.41	0.55
29:D1:3107:U:H6	29:D1:3107:U:O5'	1.89	0.55
29:D1:3126:C:H2'	29:D1:3127:A:O4'	2.07	0.55
29:D1:3142:A:H5'	29:D1:3143:C:C6	2.41	0.55
30:D2:27:A:C2	30:D2:54:U:C5	2.95	0.55
31:D3:53:A:H2'	31:D3:54:A:H8	1.71	0.55
34:DC:142:ALA:C	34:DC:144:ILE:H	2.12	0.55
34:DC:154:TYR:CB	34:DC:155:ALA:HA	2.37	0.55
38:DG:51:TYR:C	38:DG:53:LYS:H	2.14	0.55
38:DG:233:GLU:N	38:DG:234:GLU:O	2.40	0.55
42:DK:121:GLY:O	42:DK:123:PHE:N	2.37	0.55
44:DO:186:GLY:N	44:DO:187:ARG:CA	2.68	0.55
46:DQ:70:THR:O	46:DQ:71:ALA:C	2.49	0.55
46:DQ:117:ILE:O	46:DQ:147:GLU:O	2.24	0.55
48:DS:25:ASP:C	48:DS:27:ASN:H	2.13	0.55
48:DS:39:ASN:O	48:DS:40:ALA:C	2.49	0.55
48:DS:151:ARG:CA	48:DS:154:ALA:HB3	2.35	0.55
62:Dg:59:CYS:N	74:Dg:101:OHX:N1	2.53	0.55
1:A1:475:A:N1	1:A1:476:U:O2	2.40	0.55
1:A1:648:G:C2	1:A1:649:U:C5	2.95	0.55
1:A1:860:U:O4	1:A1:861:U:N3	2.40	0.55
1:A1:985:G:H2'	1:A1:986:G:H8	1.71	0.55
1:A1:1005:A:N7	1:A1:1006:C:C4	2.74	0.55
1:A1:1254:U:O2'	1:A1:1255:G:O5'	2.25	0.55
1:A1:1377:U:O2	1:A1:1378:U:H4'	2.06	0.55
1:A1:1381:U:H2'	1:A1:1382:A:H5'	1.88	0.55
1:A1:1619:C:C2	1:A1:1620:C:C5	2.88	0.55
3:AB:215:PHE:O	3:AB:217:ALA:N	2.40	0.55
24:Ac:6:UNK:HA	24:Ac:96:UNK:HA	1.89	0.55
29:B1:609:G:C5	29:B1:610:G:O6	2.58	0.55
29:B1:649:A:N3	29:B1:650:C:C6	2.75	0.55
29:B1:722:G:N1	29:B1:749:C:C5	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:747:A:H8	29:B1:747:A:O5'	1.90	0.55
29:B1:755:A:C2	29:B1:778:U:C2	2.95	0.55
29:B1:771:A:N1	29:B1:772:U:N3	2.54	0.55
29:B1:943:U:H1'	29:B1:944:C:OP1	2.05	0.55
29:B1:953:G:O2'	29:B1:954:U:O5'	2.22	0.55
29:B1:998:A:H4'	30:B2:103:A:C2	2.42	0.55
29:B1:1035:G:C4	29:B1:1036:A:H8	2.24	0.55
29:B1:1292:C:H2'	29:B1:1292:C:O2	2.06	0.55
29:B1:1414:G:H2'	29:B1:1415:U:H6	1.71	0.55
29:B1:1520:G:C2	29:B1:1521:G:C4	2.94	0.55
29:B1:1616:U:H2'	29:B1:1617:G:H8	1.70	0.55
29:B1:2223:A:C2'	29:B1:2224:A:C8	2.89	0.55
29:B1:2286:U:C4	29:B1:2288:G:C1'	2.88	0.55
29:B1:2355:G:O2'	29:B1:2356:A:O4'	2.24	0.55
29:B1:2667:A:C3'	29:B1:2667:A:C4	2.83	0.55
29:B1:2922:G:H1'	29:B1:2951:G:H21	1.71	0.55
29:B1:3012:A:H2'	29:B1:3013:U:C5'	2.15	0.55
29:B1:3323:A:C2'	29:B1:3324:C:O5'	2.55	0.55
29:B1:3336:A:N6	29:B1:3337:G:C6	2.75	0.55
30:B2:70:U:C2	30:B2:71:G:C8	2.94	0.55
31:B3:5:U:C5	31:B3:6:U:C4	2.95	0.55
31:B3:72:A:C4	31:B3:88:A:N1	2.74	0.55
31:B3:106:C:C2	31:B3:138:A:N7	2.75	0.55
31:B3:109:A:C2	31:B3:114:G:C5	2.94	0.55
40:BI:65:VAL:O	40:BI:68:LEU:N	2.39	0.55
48:BS:24:LEU:O	48:BS:26:PRO:N	2.39	0.55
1:C1:88:U:C5	1:C1:89:G:N7	2.75	0.55
1:C1:97:C:C4	1:C1:98:U:C5	2.95	0.55
1:C1:162:A:C2	1:C1:163:G:C4	2.95	0.55
1:C1:184:C:N4	1:C1:202:A:N1	2.55	0.55
1:C1:289:U:O2	1:C1:290:G:H5"	2.05	0.55
1:C1:290:G:N2	1:C1:291:G:C2	2.75	0.55
1:C1:375:U:O2	1:C1:375:U:C2'	2.52	0.55
1:C1:774:A:C2	1:C1:775:G:C1'	2.89	0.55
1:C1:964:U:OP2	1:C1:964:U:H2'	2.07	0.55
1:C1:1087:A:H5"	1:C1:1088:A:OP2	2.07	0.55
1:C1:1181:U:H2'	1:C1:1182:U:O5'	2.05	0.55
1:C1:1231:U:H1'	1:C1:1258:U:C4'	2.22	0.55
1:C1:1285:U:O2	1:C1:1286:U:H5	1.89	0.55
1:C1:1325:A:H2'	1:C1:1326:A:C8	2.41	0.55
1:C1:1400:A:N1	1:C1:1401:A:C2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1428:G:N3	1:C1:1428:G:H2'	2.22	0.55
1:C1:1472:C:H3'	1:C1:1472:C:P	2.46	0.55
1:C1:1598:U:C4	1:C1:1599:C:C5	2.95	0.55
1:C1:1622:G:C6	1:C1:1623:C:C4	2.94	0.55
1:C1:1627:U:O2'	1:C1:1628:U:O5'	2.23	0.55
1:C1:1645:G:H2'	1:C1:1646:C:H6	1.71	0.55
1:C1:1778:G:H2'	1:C1:1779:U:H5'	1.88	0.55
5:CD:197:GLU:O	5:CD:201:ALA:HB2	2.06	0.55
6:CE:68:LYS:O	6:CE:69:ARG:C	2.47	0.55
6:CE:72:GLU:C	6:CE:75:ALA:HB3	2.31	0.55
29:D1:109:A:C6	29:D1:323:A:C4	2.93	0.55
29:D1:117:U:C4	29:D1:118:U:H5	2.24	0.55
29:D1:150:A:N7	29:D1:151:A:N7	2.53	0.55
29:D1:307:A:H1'	29:D1:2223:A:N3	2.22	0.55
29:D1:347:G:C6	29:D1:348:A:C6	2.94	0.55
29:D1:425:G:C6	29:D1:635:G:N1	2.75	0.55
29:D1:518:G:P	29:D1:520:U:H5	2.29	0.55
29:D1:534:U:H6	29:D1:534:U:P	2.26	0.55
29:D1:584:G:C4	29:D1:585:A:C8	2.93	0.55
29:D1:625:G:O2'	29:D1:626:U:O5'	2.25	0.55
29:D1:636:C:O2'	29:D1:637:C:H5'	2.07	0.55
29:D1:715:A:O5'	29:D1:715:A:H8	1.89	0.55
29:D1:726:G:C6	29:D1:727:G:C2	2.95	0.55
29:D1:733:G:N3	29:D1:733:G:C2'	2.70	0.55
29:D1:1077:U:O2'	29:D1:1078:U:C6	2.59	0.55
29:D1:1393:A:H8	29:D1:1418:A:C5	2.25	0.55
29:D1:1466:G:O6	29:D1:1511:U:C6	2.60	0.55
29:D1:1626:U:C3'	29:D1:1627:U:O4'	2.55	0.55
29:D1:1783:U:C2	29:D1:1784:G:C8	2.94	0.55
29:D1:2148:U:O3'	29:D1:2149:A:C8	2.60	0.55
29:D1:2204:C:H2'	29:D1:2205:U:H5"	1.88	0.55
29:D1:2215:A:C2	29:D1:2216:G:C8	2.94	0.55
29:D1:2253:G:C5	29:D1:2254:U:C4	2.95	0.55
29:D1:2295:A:N6	29:D1:2296:A:H61	2.03	0.55
29:D1:2383:C:H2'	29:D1:2384:A:O5'	2.06	0.55
29:D1:2642:A:N3	29:D1:2642:A:H2'	2.20	0.55
29:D1:2678:A:OP2	29:D1:2678:A:H4'	2.05	0.55
29:D1:2720:G:H2'	29:D1:2721:A:H8	1.72	0.55
29:D1:2762:A:H3'	29:D1:2763:U:H5	1.71	0.55
29:D1:2880:U:H2'	29:D1:2881:C:H6	1.69	0.55
29:D1:2888:U:C5	29:D1:2910:A:N1	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3088:G:C5	29:D1:3089:C:C4	2.94	0.55
29:D1:3221:C:C2'	29:D1:3222:U:H5'	2.36	0.55
29:D1:3249:C:O2	29:D1:3249:C:C2'	2.51	0.55
29:D1:3260:G:C6	29:D1:3261:C:H1'	2.41	0.55
30:D2:30:G:C5	30:D2:31:U:C2	2.95	0.55
30:D2:55:A:C2	30:D2:56:A:C4	2.91	0.55
31:D3:49:G:H2'	31:D3:50:C:O5'	2.07	0.55
31:D3:66:A:C6	31:D3:67:U:O4	2.60	0.55
33:DB:102:LEU:C	33:DB:104:LEU:N	2.64	0.55
33:DB:200:ARG:O	33:DB:202:VAL:N	2.36	0.55
37:DF:52:VAL:O	37:DF:66:SER:CB	2.54	0.55
37:DF:171:PRO:O	37:DF:172:HIS:CB	2.54	0.55
38:DG:224:ILE:C	38:DG:226:GLY:N	2.64	0.55
73:DM:79:PHE:O	73:DM:80:VAL:C	2.48	0.55
43:DN:95:ALA:O	43:DN:97:SER:N	2.39	0.55
45:DP:172:ARG:O	45:DP:173:ALA:C	2.49	0.55
46:DQ:116:HIS:O	46:DQ:148:LEU:HA	2.05	0.55
47:DR:23:ASN:O	47:DR:24:VAL:C	2.49	0.55
56:Da:29:ALA:O	56:Da:32:ALA:HB3	2.06	0.55
56:Da:43:HIS:O	56:Da:44:MET:C	2.50	0.55
58:Dc:32:LYS:C	58:Dc:34:GLN:N	2.63	0.55
1:A1:5:U:O2'	1:A1:553:G:O3'	2.25	0.55
1:A1:45:U:C3'	1:A1:45:U:H6	2.20	0.55
1:A1:57:G:C6	1:A1:91:G:N1	2.74	0.55
1:A1:93:A:H8	1:A1:398:G:H2'	1.64	0.55
1:A1:112:A:O2'	1:A1:113:U:O5'	2.24	0.55
1:A1:139:C:C5	1:A1:176:C:N3	2.74	0.55
1:A1:168:A:C3'	1:A1:169:A:H8	2.20	0.55
1:A1:196:G:O2'	1:A1:197:A:O5'	2.24	0.55
1:A1:201:G:N1	1:A1:202:A:C2	2.75	0.55
1:A1:260:U:H3'	1:A1:261:U:H5"	1.89	0.55
1:A1:317:C:N4	1:A1:318:U:O4	2.39	0.55
1:A1:612:U:H4'	1:A1:1099:U:C6	2.42	0.55
1:A1:778:G:N2	1:A1:783:G:C6	2.75	0.55
1:A1:923:A:H2'	1:A1:924:A:H8	1.71	0.55
1:A1:1024:U:O2'	1:A1:1025:A:H5'	2.07	0.55
1:A1:1142:A:H2'	1:A1:1143:A:C8	2.42	0.55
1:A1:1183:A:N6	1:A1:1184:A:N1	2.55	0.55
1:A1:1583:A:N3	1:A1:1585:U:C4	2.74	0.55
1:A1:1585:U:N3	1:A1:1611:A:C2	2.74	0.55
1:A1:1631:A:H1'	1:A1:1764:C:O2	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1665:U:H3	1:A1:1736:G:H1	1.53	0.55
1:A1:1720:G:O2'	1:A1:1721:A:H5'	2.06	0.55
1:A1:1753:A:C2	1:A1:1754:A:N1	2.74	0.55
2:AA:130:ALA:C	2:AA:132:ALA:N	2.57	0.55
2:AA:178:ALA:HA	2:AA:182:LEU:H	1.71	0.55
3:AB:155:ALA:O	3:AB:168:ARG:HA	2.07	0.55
5:AD:196:GLU:O	5:AD:197:GLU:CB	2.54	0.55
8:AG:80:LEU:O	8:AG:81:ALA:HB2	2.06	0.55
14:AM:20:SER:C	14:AM:22:LEU:H	2.14	0.55
21:AT:42:LEU:O	21:AT:60:SER:HA	2.06	0.55
23:Ab:107:UNK:HA	23:Ab:110:UNK:CB	2.37	0.55
29:B1:22:G:C4	29:B1:23:A:H8	2.21	0.55
29:B1:40:A:C6	54:BY:30:GLY:HA2	2.41	0.55
29:B1:557:A:H3'	29:B1:557:A:H8	1.69	0.55
29:B1:664:U:O2'	29:B1:665:A:H5'	2.06	0.55
29:B1:804:C:C4	29:B1:940:G:N1	2.75	0.55
29:B1:1094:U:H4'	29:B1:1095:U:H4'	1.88	0.55
29:B1:1358:C:H5"	29:B1:1359:C:OP2	2.06	0.55
29:B1:1681:U:O2	29:B1:1681:U:C2'	2.55	0.55
29:B1:1691:U:C2	29:B1:1692:U:C5	2.94	0.55
29:B1:2102:U:H2'	29:B1:2103:U:H6	1.71	0.55
29:B1:2223:A:O2'	29:B1:2224:A:O5'	2.25	0.55
29:B1:2255:A:N6	74:B1:3438:OHX:N2	2.54	0.55
29:B1:2282:U:O2'	29:B1:2283:G:C5'	2.54	0.55
29:B1:2443:A:C5	29:B1:2444:C:C4	2.95	0.55
29:B1:2468:A:H4'	29:B1:2469:G:O5'	2.06	0.55
29:B1:2530:G:C8	29:B1:2530:G:OP2	2.59	0.55
29:B1:2530:G:OP2	29:B1:2530:G:H8	1.89	0.55
29:B1:2631:U:N3	29:B1:2648:G:C2	2.75	0.55
29:B1:2888:U:C6	29:B1:2910:A:N1	2.75	0.55
29:B1:2897:A:N1	29:B1:2904:U:O4	2.40	0.55
29:B1:2923:U:H2'	29:B1:2924:U:H6	1.71	0.55
29:B1:3029:A:H3'	29:B1:3030:G:C5'	2.33	0.55
29:B1:3079:U:H3'	29:B1:3080:G:H5"	1.88	0.55
29:B1:3200:G:H2'	29:B1:3201:C:C5	2.41	0.55
29:B1:3201:C:C2'	29:B1:3202:G:C8	2.84	0.55
29:B1:3298:C:H2'	29:B1:3299:A:H8	1.70	0.55
29:B1:3316:A:H1'	29:B1:3317:U:OP2	2.06	0.55
30:B2:23:A:C3'	30:B2:24:A:C8	2.87	0.55
30:B2:28:C:H2'	30:B2:28:C:O2	2.05	0.55
30:B2:55:A:H3'	30:B2:55:A:P	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:24:G:H21	31:B3:25:G:H1'	1.70	0.55
31:B3:54:A:H2'	31:B3:55:U:H5'	1.89	0.55
31:B3:68:G:C6	31:B3:69:U:C4	2.94	0.55
31:B3:114:G:H2'	31:B3:115:C:H5'	1.89	0.55
31:B3:120:C:H2'	31:B3:121:U:O4'	2.06	0.55
34:BC:83:PRO:CB	34:BC:204:ALA:HB1	2.36	0.55
36:BE:19:PRO:O	36:BE:20:PHE:CB	2.53	0.55
39:BH:205:ALA:HB3	39:BH:206:GLU:CB	2.37	0.55
41:BJ:170:LYS:CB	41:BJ:171:TRP:C	2.80	0.55
45:BP:187:GLU:O	45:BP:188:SER:C	2.49	0.55
47:BR:33:TYR:O	47:BR:36:LEU:O	2.25	0.55
1:C1:44:U:OP1	1:C1:47:A:OP2	2.24	0.55
1:C1:87:C:H2'	1:C1:87:C:O2	2.07	0.55
1:C1:104:A:C2'	1:C1:106:U:OP1	2.54	0.55
1:C1:218:A:H61	1:C1:844:A:C1'	2.15	0.55
1:C1:337:G:H8	1:C1:337:G:O5'	1.89	0.55
1:C1:350:U:C4'	1:C1:352:A:C8	2.89	0.55
1:C1:492:A:N3	1:C1:494:U:C6	2.75	0.55
1:C1:518:A:N6	1:C1:535:A:C4	2.75	0.55
1:C1:571:G:H3'	1:C1:572:C:H6	1.71	0.55
1:C1:973:A:O2'	29:D1:847:A:C2	2.60	0.55
1:C1:974:A:H5'	29:D1:848:A:O4'	2.07	0.55
1:C1:1113:A:C2	1:C1:1115:U:O4	2.59	0.55
1:C1:1292:G:H2'	1:C1:1293:U:C6	2.41	0.55
1:C1:1358:G:N1	1:C1:1359:C:C4	2.75	0.55
1:C1:1525:A:H1'	1:C1:1590:G:H4'	1.89	0.55
1:C1:1605:G:C5	1:C1:1606:C:C5	2.95	0.55
1:C1:1683:C:O2'	1:C1:1684:U:N3	2.37	0.55
6:CE:54:ARG:O	6:CE:55:ALA:O	2.24	0.55
8:CG:46:THR:O	8:CG:47:PRO:CB	2.54	0.55
17:CP:76:LEU:O	17:CP:80:GLY:N	2.39	0.55
18:CQ:87:GLY:O	18:CQ:88:ILE:CB	2.54	0.55
29:D1:96:G:H21	29:D1:97:U:H1'	1.69	0.55
29:D1:116:A:H4'	29:D1:117:U:OP1	2.06	0.55
29:D1:198:A:C2	29:D1:219:A:C8	2.95	0.55
29:D1:256:G:N3	29:D1:256:G:H2'	2.20	0.55
29:D1:287:G:C4	29:D1:288:C:C5	2.94	0.55
29:D1:312:C:H1'	29:D1:2778:G:N2	2.20	0.55
29:D1:420:G:C4	29:D1:2384:A:C2	2.95	0.55
29:D1:624:G:H2'	29:D1:625:G:C5'	2.36	0.55
29:D1:648:C:C5	29:D1:2375:G:P	2.99	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:926:A:H2'	29:D1:927:C:H6	1.70	0.55
29:D1:957:C:C2	29:D1:958:C:C5	2.94	0.55
29:D1:996:A:C2'	29:D1:997:A:H5'	2.36	0.55
29:D1:1094:U:H4'	29:D1:1095:U:H4'	1.89	0.55
29:D1:1189:C:C4'	29:D1:1192:C:C5	2.85	0.55
29:D1:1336:U:H2'	29:D1:1337:A:H8	1.71	0.55
29:D1:1337:A:C6	29:D1:1338:C:C4	2.94	0.55
29:D1:1405:U:C6	29:D1:1406:A:N7	2.74	0.55
29:D1:1414:G:C2	29:D1:1415:U:H1'	2.42	0.55
29:D1:1459:C:O2'	29:D1:1460:A:H5'	2.06	0.55
29:D1:1601:U:C5	29:D1:1604:G:O6	2.60	0.55
29:D1:1624:G:N2	29:D1:1822:C:N3	2.54	0.55
29:D1:1704:A:C2	29:D1:1741:A:C5	2.95	0.55
29:D1:1858:A:C2'	29:D1:1859:A:OP1	2.54	0.55
29:D1:1947:G:N3	29:D1:1947:G:H2'	2.21	0.55
29:D1:2105:G:H2'	29:D1:2106:A:H8	1.70	0.55
29:D1:2152:A:H1'	29:D1:2243:A:N3	2.22	0.55
29:D1:2314:U:O2	29:D1:2314:U:H5"	2.07	0.55
29:D1:2406:C:H1'	29:D1:2819:A:C6	2.42	0.55
29:D1:2629:U:C2	29:D1:2630:C:C5	2.94	0.55
29:D1:2671:A:C6	29:D1:2672:G:N7	2.74	0.55
29:D1:2841:G:H3'	29:D1:2842:U:H5'	1.88	0.55
29:D1:2850:G:H5"	29:D1:2850:G:H8	1.70	0.55
29:D1:2914:G:H2'	29:D1:2915:U:C6	2.41	0.55
29:D1:3209:A:C2'	29:D1:3210:A:C8	2.89	0.55
31:D3:3:A:H3'	31:D3:3:A:C8	2.42	0.55
31:D3:109:A:C2	31:D3:114:G:C5	2.94	0.55
31:D3:114:G:OP2	31:D3:114:G:C8	2.57	0.55
31:D3:120:C:H2'	31:D3:121:U:O4'	2.06	0.55
36:DE:43:LYS:N	49:DT:69:LYS:C	2.64	0.55
36:DE:243:ALA:HB1	36:DE:247:ILE:CB	2.37	0.55
36:DE:281:GLU:O	36:DE:282:ARG:C	2.49	0.55
37:DF:5:LYS:CB	38:DG:77:VAL:H	2.19	0.55
44:DO:78:GLY:CA	44:DO:79:ALA:CB	2.85	0.55
45:DP:156:LEU:O	45:DP:157:GLU:C	2.49	0.55
1:A1:50:C:N3	1:A1:424:C:C5	2.75	0.55
1:A1:52:U:H6	1:A1:52:U:O5'	1.89	0.55
1:A1:62:A:H2	1:A1:63:G:N7	2.03	0.55
1:A1:147:A:H2'	1:A1:148:A:C1'	2.37	0.55
1:A1:162:A:C2	1:A1:163:G:C4	2.95	0.55
1:A1:511:A:H4'	1:A1:512:A:OP2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:524:U:C2'	1:A1:527:A:C2	2.86	0.55
1:A1:557:G:OP2	1:A1:589:C:H1'	2.07	0.55
1:A1:635:A:H2'	1:A1:636:A:H8	1.70	0.55
1:A1:789:A:C2	1:A1:790:U:H1'	2.41	0.55
1:A1:986:G:H2'	1:A1:987:G:H8	1.72	0.55
1:A1:1074:G:O6	1:A1:1075:C:C4	2.60	0.55
1:A1:1374:C:C4	1:A1:1375:A:C6	2.94	0.55
1:A1:1381:U:C2'	1:A1:1382:A:H5'	2.37	0.55
1:A1:1466:G:H2'	1:A1:1467:C:C6	2.41	0.55
1:A1:1663:G:H2'	1:A1:1664:C:C6	2.36	0.55
1:A1:1707:A:H2'	1:A1:1708:U:C2	2.40	0.55
1:A1:1720:G:O4'	1:A1:1720:G:P	2.65	0.55
1:A1:1790:A:H2'	1:A1:1791:A:H5"	1.87	0.55
3:AB:122:ALA:O	3:AB:123:GLY:C	2.49	0.55
16:AO:112:ASP:O	16:AO:114:GLU:N	2.40	0.55
29:B1:142:C:H2'	29:B1:143:G:H8	1.72	0.55
29:B1:532:A:C2	29:B1:533:A:C4	2.95	0.55
29:B1:565:U:C6	29:B1:565:U:OP2	2.60	0.55
29:B1:592:A:C4	29:B1:593:C:C6	2.95	0.55
29:B1:618:C:O2	29:B1:619:A:C8	2.59	0.55
29:B1:726:G:C2	29:B1:727:G:O6	2.58	0.55
29:B1:856:G:C6	29:B1:857:G:N1	2.74	0.55
29:B1:971:G:HO2'	29:B1:972:A:H5'	1.71	0.55
29:B1:1412:G:H2'	29:B1:1413:G:C8	2.41	0.55
29:B1:1448:U:C2'	29:B1:1449:A:H5'	2.36	0.55
29:B1:1456:A:N6	29:B1:1477:A:H4'	2.22	0.55
29:B1:1468:A:HO2'	29:B1:1469:C:P	2.29	0.55
29:B1:1697:A:C3'	29:B1:1698:C:H5'	2.37	0.55
29:B1:1797:A:C4	29:B1:1798:A:C8	2.94	0.55
29:B1:2240:G:H2'	29:B1:2241:U:O5'	2.07	0.55
29:B1:2379:U:C2	29:B1:2380:U:C5	2.94	0.55
29:B1:2700:G:H5"	29:B1:2701:U:OP2	2.07	0.55
29:B1:2732:G:C5	29:B1:2733:A:N7	2.74	0.55
29:B1:2900:A:C2	29:B1:2901:G:C4	2.95	0.55
29:B1:2909:U:C5	29:B1:2910:A:C8	2.95	0.55
29:B1:3045:G:C2'	29:B1:3046:A:O5'	2.54	0.55
29:B1:3105:U:C6	29:B1:3106:A:N7	2.75	0.55
29:B1:3151:U:OP2	29:B1:3151:U:H3'	2.06	0.55
29:B1:3170:A:C2'	29:B1:3171:U:O5'	2.55	0.55
29:B1:3180:A:H8	45:BP:114:LYS:HA	1.72	0.55
29:B1:3200:G:C6	29:B1:3201:C:N4	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3260:G:OP2	29:B1:3261:C:H5”	2.07	0.55
29:B1:3262:U:H2’	29:B1:3263:G:C8	2.41	0.55
29:B1:3321:C:OP2	29:B1:3321:C:H6	1.90	0.55
31:B3:5:U:C4	31:B3:6:U:C4	2.95	0.55
31:B3:77:A:H62	53:BX:72:SER:CB	2.20	0.55
34:BC:85:VAL:CB	34:BC:202:THR:HA	2.36	0.55
34:BC:165:GLN:O	34:BC:166:ILE:O	2.23	0.55
34:BC:189:SER:O	34:BC:192:VAL:N	2.39	0.55
37:BF:164:SER:HA	38:BG:182:ASP:CB	2.36	0.55
39:BH:100:GLU:C	39:BH:102:ALA:N	2.62	0.55
44:BO:160:GLU:O	44:BO:161:ALA:CB	2.54	0.55
47:BR:43:PRO:C	47:BR:45:ASN:H	2.14	0.55
54:BY:83:PRO:CB	54:BY:84:GLU:HA	2.36	0.55
57:Bb:33:ARG:O	57:Bb:34:LYS:C	2.48	0.55
1:C1:143:G:C3’	1:C1:144:U:H4’	2.36	0.55
1:C1:250:C:C2’	1:C1:251:A:C5’	2.80	0.55
1:C1:270:C:H3’	1:C1:271:A:C5’	2.36	0.55
1:C1:444:C:N4	1:C1:460:A:H62	1.96	0.55
1:C1:518:A:C2’	1:C1:519:C:H5”	2.30	0.55
1:C1:624:G:H8	1:C1:624:G:OP1	1.89	0.55
1:C1:721:U:H1’	1:C1:722:G:O5’	2.06	0.55
1:C1:746:A:C6	1:C1:806:A:N1	2.75	0.55
1:C1:790:U:C2	1:C1:791:A:C8	2.95	0.55
1:C1:1042:G:C2	1:C1:1043:A:C4	2.94	0.55
1:C1:1391:A:N7	1:C1:1412:G:C6	2.75	0.55
1:C1:1559:A:O2’	1:C1:1560:U:H6	1.90	0.55
1:C1:1636:C:N4	1:C1:1638:G:C2	2.74	0.55
20:CS:23:VAL:O	20:CS:24:CYS:O	2.24	0.55
29:D1:53:G:C4	29:D1:54:C:C5	2.94	0.55
29:D1:208:C:C4	29:D1:209:A:N7	2.74	0.55
29:D1:509:U:C2	29:D1:510:G:C8	2.94	0.55
29:D1:515:C:H5’	37:DF:143:LYS:CB	2.36	0.55
29:D1:592:A:N1	29:D1:593:C:C6	2.74	0.55
29:D1:664:U:O2’	29:D1:665:A:H5’	2.07	0.55
29:D1:758:C:C1’	29:D1:759:U:OP2	2.55	0.55
29:D1:917:A:C6	29:D1:918:C:C4	2.94	0.55
29:D1:1037:C:O2’	29:D1:1038:C:O4’	2.22	0.55
29:D1:1206:G:H2’	29:D1:1206:G:N3	2.21	0.55
29:D1:1393:A:N6	29:D1:1418:A:H5’	2.22	0.55
29:D1:1455:U:C2	29:D1:3078:U:C5	2.95	0.55
29:D1:1564:U:H2’	29:D1:1565:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1940:G:H2'	29:D1:1941:C:C1'	2.36	0.55
29:D1:1943:C:C5'	29:D1:3344:A:H5'	2.37	0.55
29:D1:2298:U:O4'	29:D1:2298:U:O2	2.23	0.55
29:D1:2348:A:H5'	29:D1:2349:U:OP2	2.06	0.55
29:D1:2555:G:H1'	29:D1:2556:C:P	2.46	0.55
29:D1:2656:A:C8	29:D1:2658:G:C8	2.95	0.55
29:D1:2677:G:C2	29:D1:2679:A:C4	2.94	0.55
29:D1:2680:A:N1	42:DK:56:THR:N	2.55	0.55
29:D1:2947:G:H2'	29:D1:2948:C:H5	1.72	0.55
29:D1:3056:U:C2	29:D1:3079:U:N3	2.75	0.55
29:D1:3219:G:H4'	29:D1:3220:G:O5'	2.07	0.55
29:D1:3225:C:N4	29:D1:3261:C:H42	2.04	0.55
29:D1:3234:A:H2	29:D1:3253:G:N2	2.03	0.55
29:D1:3281:U:C2	29:D1:3282:U:C4	2.95	0.55
30:D2:62:U:C5'	30:D2:63:A:OP2	2.55	0.55
30:D2:71:G:C6	30:D2:108:A:N1	2.75	0.55
31:D3:18:U:N3	31:D3:19:C:C4	2.75	0.55
31:D3:25:G:C6	31:D3:26:U:N3	2.74	0.55
34:DC:76:VAL:HA	34:DC:325:LYS:HA	1.88	0.55
35:DD:273:GLY:O	35:DD:275:THR:N	2.39	0.55
38:DG:221:LYS:O	38:DG:222:HIS:CB	2.54	0.55
42:DK:46:VAL:O	42:DK:68:HIS:N	2.29	0.55
72:DL:26:ALA:C	72:DL:28:LEU:H	2.14	0.55
73:DM:102:SER:C	73:DM:104:ARG:N	2.61	0.55
73:DM:196:VAL:O	73:DM:197:PHE:C	2.49	0.55
43:DN:38:ILE:HA	43:DN:44:VAL:HA	1.88	0.55
45:DP:56:ASP:C	45:DP:60:LYS:N	2.65	0.55
53:DX:91:ASN:O	53:DX:92:GLY:C	2.50	0.55
57:Db:22:SER:C	57:Db:24:ARG:N	2.63	0.55
63:Dh:17:UNK:O	63:Dh:21:UNK:N	2.39	0.55
65:Dk:11:UNK:C	65:Dk:13:UNK:N	2.67	0.55
1:A1:112:A:O2'	1:A1:113:U:H6	1.89	0.55
1:A1:245:U:N3	1:A1:247:A:OP2	2.40	0.55
1:A1:328:A:C2	1:A1:329:G:C4	2.95	0.55
1:A1:342:C:O2	1:A1:342:C:H2'	2.06	0.55
1:A1:539:G:C2	1:A1:543:C:N3	2.75	0.55
1:A1:594:A:H4'	1:A1:595:G:C5'	2.33	0.55
1:A1:620:A:OP2	1:A1:621:A:OP2	2.25	0.55
1:A1:1056:U:H3'	1:A1:1057:U:C5	2.42	0.55
1:A1:1235:C:H2'	1:A1:1236:A:O4'	2.05	0.55
1:A1:1251:U:C2'	1:A1:1252:C:O4'	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1283:U:H2'	1:A1:1283:U:O2	2.06	0.55
1:A1:1334:U:N3	1:A1:1335:U:C5	2.75	0.55
1:A1:1539:G:O2'	1:A1:1540:G:H5"	2.06	0.55
1:A1:1656:U:OP2	1:A1:1656:U:H6	1.90	0.55
1:A1:1731:A:H5"	1:A1:1732:A:OP2	2.06	0.55
2:AA:109:ASN:O	2:AA:111:ILE:O	2.25	0.55
3:AB:87:GLN:HA	3:AB:96:THR:HA	1.88	0.55
3:AB:138:PRO:O	3:AB:140:ARG:N	2.29	0.55
8:AG:70:LYS:O	8:AG:71:ILE:C	2.49	0.55
17:AP:58:GLY:O	17:AP:59:ILE:O	2.25	0.55
21:AT:9:LEU:HA	21:AT:313:TRP:CA	2.23	0.55
29:B1:71:A:H5"	29:B1:73:C:N3	2.22	0.55
29:B1:196:G:C6	29:B1:199:A:OP2	2.60	0.55
29:B1:286:U:C2	29:B1:287:G:C5	2.95	0.55
29:B1:826:G:C5	29:B1:827:A:N7	2.74	0.55
29:B1:943:U:C1'	29:B1:944:C:OP1	2.54	0.55
29:B1:953:G:C8	29:B1:1117:G:C8	2.94	0.55
29:B1:992:A:C6	29:B1:993:G:N7	2.74	0.55
29:B1:1021:G:C6	29:B1:1022:U:C4	2.95	0.55
29:B1:1230:G:H3'	29:B1:1231:A:H8	1.69	0.55
29:B1:1564:U:H2'	29:B1:1565:G:C8	2.42	0.55
29:B1:1639:C:C2'	29:B1:1640:G:O5'	2.54	0.55
29:B1:1696:A:C2	29:B1:1697:A:C5	2.95	0.55
29:B1:1780:G:N3	29:B1:1781:C:C5	2.75	0.55
29:B1:1851:G:C4	29:B1:1852:G:C8	2.94	0.55
29:B1:2363:A:C2	29:B1:2376:G:C6	2.95	0.55
29:B1:2419:A:C4	29:B1:2804:A:C8	2.95	0.55
29:B1:2699:G:H2'	29:B1:2700:G:C8	2.42	0.55
29:B1:3002:C:O2'	29:B1:3003:G:OP1	2.25	0.55
29:B1:3064:U:H2'	29:B1:3065:G:H8	1.70	0.55
30:B2:26:C:H2'	30:B2:27:A:C8	2.41	0.55
30:B2:67:G:N2	30:B2:68:C:O4'	2.40	0.55
30:B2:95:A:C2'	30:B2:96:U:O5'	2.55	0.55
31:B3:70:G:O5'	31:B3:71:A:OP2	2.24	0.55
31:B3:132:G:C2	31:B3:133:G:C5	2.95	0.55
33:BB:47:GLN:HA	33:BB:58:LEU:CB	2.37	0.55
33:BB:144:ASN:HA	33:BB:159:SER:H	1.71	0.55
37:BF:144:ALA:HB3	37:BF:146:ILE:CB	2.37	0.55
37:BF:145:LEU:O	37:BF:146:ILE:O	2.25	0.55
1:C1:26:A:OP2	1:C1:26:A:H8	1.90	0.55
1:C1:55:A:H3'	1:C1:56:U:H5"	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:71:A:C2	1:C1:72:A:N7	2.75	0.55
1:C1:192:U:H6	1:C1:192:U:H3'	1.72	0.55
1:C1:313:U:C5	1:C1:1118:G:C4	2.95	0.55
1:C1:313:U:H5	1:C1:1118:G:C6	2.22	0.55
1:C1:331:A:H5"	1:C1:332:U:OP2	2.06	0.55
1:C1:444:C:H42	1:C1:460:A:N6	1.97	0.55
1:C1:620:A:OP2	1:C1:621:A:OP2	2.25	0.55
1:C1:733:A:C6	1:C1:734:A:C4	2.94	0.55
1:C1:742:U:H3'	1:C1:743:U:H3'	1.89	0.55
1:C1:993:A:C6	1:C1:1012:U:C2	2.95	0.55
1:C1:993:A:C4	1:C1:1012:U:O2	2.60	0.55
1:C1:1146:G:C6	1:C1:1147:A:C6	2.94	0.55
1:C1:1338:C:H1'	1:C1:1410:A:C4	2.42	0.55
1:C1:1494:C:H2'	1:C1:1495:C:C6	2.42	0.55
1:C1:1603:U:H5"	1:C1:1604:U:OP2	2.06	0.55
1:C1:1749:A:H2'	1:C1:1750:A:O5'	2.07	0.55
3:CB:195:ASP:O	3:CB:196:VAL:O	2.24	0.55
9:CH:3:ASN:O	9:CH:4:VAL:CB	2.54	0.55
10:CI:11:VAL:C	10:CI:13:LYS:H	2.14	0.55
14:CM:20:SER:C	14:CM:22:LEU:H	2.15	0.55
17:CP:114:LYS:CB	17:CP:115:GLY:HA2	2.37	0.55
20:CS:23:VAL:CB	74:CS:101:OHX:N2	2.70	0.55
29:D1:22:G:C5	29:D1:23:A:N7	2.74	0.55
29:D1:255:A:H2'	29:D1:256:G:H8	1.72	0.55
29:D1:344:A:C2'	29:D1:345:G:O5'	2.55	0.55
29:D1:378:A:H3'	29:D1:378:A:C4	2.36	0.55
29:D1:535:G:N1	29:D1:558:U:O2'	2.39	0.55
29:D1:557:A:O5'	29:D1:557:A:H8	1.89	0.55
29:D1:636:C:C6	29:D1:2378:C:O4'	2.59	0.55
29:D1:747:A:C6	29:D1:748:U:C5	2.94	0.55
29:D1:926:A:O2'	29:D1:927:C:H5'	2.05	0.55
29:D1:980:A:O2'	29:D1:981:U:H4'	2.05	0.55
29:D1:1348:U:O2'	29:D1:1349:G:C8	2.60	0.55
29:D1:1463:U:C4	29:D1:1464:G:N7	2.75	0.55
29:D1:1568:U:H2'	29:D1:1570:U:OP2	2.07	0.55
29:D1:1779:C:C4'	29:D1:1780:G:OP1	2.54	0.55
29:D1:1908:A:N7	29:D1:1909:A:N7	2.55	0.55
29:D1:1941:C:O2'	29:D1:3363:U:H1'	2.07	0.55
29:D1:2136:C:H3'	29:D1:2142:A:H61	1.72	0.55
29:D1:2209:U:OP2	29:D1:2209:U:N1	2.40	0.55
29:D1:2279:A:H2	29:D1:2285:C:H41	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2594:C:H2'	29:D1:2595:A:O4'	2.06	0.55
29:D1:2882:U:C2'	29:D1:2883:U:O5'	2.55	0.55
29:D1:3034:C:H2'	29:D1:3035:A:H5'	1.89	0.55
29:D1:3064:U:C2	29:D1:3065:G:N7	2.74	0.55
29:D1:3273:A:C2	29:D1:3274:A:C4	2.95	0.55
29:D1:3394:U:HO2'	29:D1:3395:G:H8	1.51	0.55
74:D1:3408:OHX:N2	74:D1:3582:OHX:N1	2.55	0.55
30:D2:43:U:N3	30:D2:44:C:C6	2.75	0.55
30:D2:62:U:H2'	30:D2:62:U:O2	2.05	0.55
31:D3:81:U:O5'	31:D3:81:U:H6	1.90	0.55
34:DC:272:TYR:O	34:DC:273:HIS:C	2.49	0.55
35:DD:39:PHE:O	35:DD:40:THR:C	2.49	0.55
40:DI:21:LYS:O	40:DI:22:SER:O	2.24	0.55
42:DK:139:THR:C	42:DK:141:ARG:N	2.63	0.55
43:DN:23:ILE:O	43:DN:32:LEU:CA	2.54	0.55
43:DN:59:ASN:O	43:DN:60:LEU:CB	2.55	0.55
44:DO:148:TYR:C	44:DO:150:TRP:H	2.14	0.55
45:DP:140:LYS:C	45:DP:142:SER:N	2.62	0.55
46:DQ:115:SER:H	46:DQ:150:VAL:HA	1.72	0.55
57:Db:66:LEU:CB	57:Db:72:LYS:H	2.20	0.55
62:Dg:30:GLU:O	62:Dg:33:GLN:N	2.33	0.55
1:A1:44:U:OP2	1:A1:45:U:O4	2.25	0.55
1:A1:162:A:C2'	1:A1:163:G:C8	2.89	0.55
1:A1:264:G:H3'	1:A1:265:A:C4'	2.36	0.55
1:A1:326:G:H2'	1:A1:327:U:C6	2.42	0.55
1:A1:395:U:N3	1:A1:396:G:C4	2.74	0.55
1:A1:524:U:O2	1:A1:524:U:C3'	2.54	0.55
1:A1:623:A:C2	1:A1:1105:C:H4'	2.42	0.55
1:A1:687:G:C2	1:A1:688:G:C8	2.95	0.55
1:A1:763:G:C6	1:A1:764:U:O4	2.60	0.55
1:A1:1032:G:C6	1:A1:1104:U:C4	2.95	0.55
1:A1:1158:C:H42	1:A1:1163:A:N6	2.02	0.55
1:A1:1206:U:H5'	1:A1:1207:C:OP2	2.07	0.55
1:A1:1277:G:O6	1:A1:1278:G:C2	2.59	0.55
1:A1:1409:G:C8	1:A1:1411:A:OP2	2.59	0.55
1:A1:1672:G:N1	1:A1:1673:G:C6	2.75	0.55
1:A1:1750:A:C4	1:A1:1751:C:C6	2.95	0.55
1:A1:1754:A:O2'	1:A1:1755:A:OP2	2.20	0.55
11:AJ:83:GLN:O	11:AJ:84:ALA:C	2.49	0.55
29:B1:6:A:C6	29:B1:7:C:C5	2.95	0.55
29:B1:26:A:H2	29:B1:330:G:H21	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:90:C:O4'	29:B1:281:G:O2'	2.22	0.55
29:B1:106:A:O2'	29:B1:107:A:H5'	2.06	0.55
29:B1:396:A:C2	29:B1:399:A:C4	2.94	0.55
29:B1:428:A:C2'	29:B1:429:U:O5'	2.55	0.55
29:B1:523:A:H2'	29:B1:524:U:C5'	2.31	0.55
29:B1:759:U:O4	29:B1:773:G:N7	2.40	0.55
29:B1:780:A:N1	29:B1:781:G:C4	2.75	0.55
29:B1:1107:C:H2'	29:B1:1108:U:H6	1.72	0.55
29:B1:1158:A:HO2'	29:B1:1330:A:H2	1.45	0.55
29:B1:1174:G:C6	29:B1:1318:A:N3	2.75	0.55
29:B1:1447:G:O2'	29:B1:1448:U:OP2	2.25	0.55
29:B1:1468:A:C2	29:B1:1469:C:N3	2.75	0.55
29:B1:1546:A:N6	29:B1:1547:G:C2	2.75	0.55
29:B1:1678:G:OP2	29:B1:1678:G:H8	1.88	0.55
29:B1:1953:G:C6	29:B1:2093:A:C8	2.94	0.55
29:B1:2140:U:H2'	29:B1:2141:U:H5'	1.89	0.55
29:B1:2677:G:N2	29:B1:2679:A:N3	2.54	0.55
29:B1:2924:U:H2'	29:B1:2925:C:O4'	2.07	0.55
29:B1:2997:G:C1'	29:B1:2998:U:O5'	2.52	0.55
29:B1:3109:G:O2'	29:B1:3110:C:H5'	2.07	0.55
29:B1:3301:U:P	29:B1:3301:U:O4'	2.65	0.55
30:B2:12:U:P	30:B2:68:C:H4'	2.46	0.55
30:B2:28:C:C4	30:B2:29:C:C2	2.95	0.55
30:B2:70:U:O2'	30:B2:71:G:H5'	2.07	0.55
31:B3:130:C:H2'	31:B3:131:A:H8	1.72	0.55
34:BC:121:ASN:O	34:BC:122:TRP:CB	2.55	0.55
34:BC:330:GLY:O	34:BC:331:ASN:O	2.25	0.55
35:BD:175:HIS:O	35:BD:176:SER:C	2.49	0.55
36:BE:82:GLU:C	36:BE:84:PRO:N	2.65	0.55
37:BF:151:LYS:O	37:BF:152:THR:C	2.48	0.55
40:BI:117:PHE:O	40:BI:120:ASP:N	2.40	0.55
48:BS:95:TRP:O	48:BS:96:ILE:C	2.49	0.55
54:BY:28:HIS:C	54:BY:30:GLY:N	2.65	0.55
1:C1:108:A:C3'	1:C1:109:G:H8	2.18	0.55
1:C1:478:A:C2	1:C1:510:G:N2	2.75	0.55
1:C1:595:G:H2'	1:C1:596:C:H6	1.67	0.55
1:C1:696:C:OP2	1:C1:696:C:O4'	2.25	0.55
1:C1:863:A:H2'	1:C1:865:A:C8	2.42	0.55
1:C1:985:G:H2'	1:C1:986:G:C8	2.41	0.55
1:C1:1065:A:O2'	24:Cc:39:UNK:O	2.23	0.55
1:C1:1121:C:H1'	1:C1:1127:G:H22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1197:C:O2	1:C1:1197:C:C2'	2.54	0.55
1:C1:1516:A:H3'	1:C1:1517:U:H5'	1.87	0.55
1:C1:1649:G:H2'	1:C1:1650:U:C5	2.38	0.55
1:C1:1720:G:N7	1:C1:1721:A:C5	2.75	0.55
1:C1:1720:G:C2'	1:C1:1721:A:H8	2.19	0.55
3:CB:210:THR:O	3:CB:211:LEU:C	2.49	0.55
4:CC:21:LEU:O	4:CC:23:GLU:N	2.39	0.55
4:CC:162:GLN:O	4:CC:165:ASN:C	2.50	0.55
6:CE:130:THR:O	6:CE:131:GLN:C	2.50	0.55
23:Cb:58:UNK:O	23:Cb:59:UNK:C	2.55	0.55
29:D1:171:G:C2	29:D1:172:G:C8	2.95	0.55
29:D1:247:C:C2'	29:D1:248:U:H4'	2.37	0.55
29:D1:363:G:H3'	29:D1:364:G:H5"	1.88	0.55
29:D1:365:A:N1	29:D1:366:A:C4	2.75	0.55
29:D1:374:A:C2	29:D1:375:A:C6	2.95	0.55
29:D1:514:G:C2'	29:D1:515:C:C6	2.89	0.55
29:D1:516:A:N3	29:D1:516:A:H2'	2.22	0.55
29:D1:565:U:H2'	29:D1:566:G:H5'	1.89	0.55
29:D1:622:A:H2'	29:D1:623:U:C6	2.40	0.55
29:D1:645:A:C5	29:D1:649:A:C5	2.94	0.55
29:D1:672:A:N6	29:D1:791:A:N6	2.54	0.55
29:D1:861:C:C2	29:D1:862:U:C6	2.95	0.55
29:D1:945:C:C3'	29:D1:946:U:H6	2.20	0.55
29:D1:980:A:N6	29:D1:1104:G:C8	2.63	0.55
29:D1:1178:G:N7	29:D1:1179:A:C5	2.74	0.55
29:D1:1212:A:N6	29:D1:1294:A:N1	2.54	0.55
29:D1:1495:U:O2'	29:D1:1514:G:C4'	2.55	0.55
29:D1:1500:G:H2'	29:D1:1501:U:C6	2.42	0.55
29:D1:1536:G:H2'	29:D1:1536:G:N3	2.20	0.55
29:D1:1747:G:C2'	29:D1:1748:G:H5'	2.37	0.55
29:D1:2222:A:O5'	29:D1:2222:A:H8	1.90	0.55
29:D1:2244:A:HO2'	33:DB:222:ALA:HB3	1.69	0.55
29:D1:2299:A:C6	29:D1:2300:G:N7	2.75	0.55
29:D1:2514:U:HO2'	29:D1:2515:A:H8	1.55	0.55
29:D1:2596:U:H2'	29:D1:2597:U:H6	1.70	0.55
29:D1:2682:C:N4	29:D1:2683:U:O4	2.39	0.55
29:D1:2743:A:H5"	29:D1:2744:U:OP2	2.07	0.55
29:D1:2932:U:N1	29:D1:2935:U:H5	2.04	0.55
29:D1:3005:A:C4	29:D1:3140:G:C2	2.95	0.55
29:D1:3135:U:C6	29:D1:3136:G:C8	2.94	0.55
29:D1:3168:A:O2'	29:D1:3169:U:O4'	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3308:C:N4	29:D1:3309:G:C5	2.75	0.55
29:D1:3329:U:O3'	34:DC:366:GLY:HA3	2.07	0.55
30:D2:9:C:N4	30:D2:10:C:O2	2.39	0.55
34:DC:87:VAL:C	34:DC:88:GLY:O	2.46	0.55
36:DE:82:GLU:C	36:DE:84:PRO:N	2.64	0.55
37:DF:151:LYS:O	37:DF:152:THR:C	2.49	0.55
38:DG:138:TYR:CB	38:DG:233:GLU:O	2.55	0.55
49:DT:115:LYS:C	49:DT:117:ALA:H	2.13	0.55
54:DY:74:ASN:C	54:DY:76:ASP:H	2.15	0.55
54:DY:118:ILE:O	54:DY:119:PRO:CB	2.55	0.55
59:Dd:68:LYS:O	59:Dd:72:ARG:CB	2.55	0.55
65:Dk:10:UNK:O	65:Dk:13:UNK:CB	2.55	0.55
1:A1:195:G:C1'	1:A1:196:G:OP1	2.55	0.55
1:A1:295:A:C4'	1:A1:296:U:OP1	2.55	0.55
1:A1:314:C:O2	1:A1:354:C:N3	2.40	0.55
1:A1:556:A:O3'	1:A1:558:U:OP2	2.23	0.55
1:A1:729:G:C5	1:A1:730:G:H8	2.24	0.55
1:A1:732:G:H1'	1:A1:734:A:N6	2.21	0.55
1:A1:807:A:C2	1:A1:808:U:C2	2.94	0.55
1:A1:940:A:C4	1:A1:941:A:C8	2.95	0.55
1:A1:1006:C:C5	1:A1:1007:C:H5	2.25	0.55
1:A1:1056:U:H5"	1:A1:1057:U:H5	1.72	0.55
1:A1:1072:C:H3'	1:A1:1073:G:H5"	1.88	0.55
1:A1:1112:G:C5	1:A1:1113:A:N7	2.75	0.55
1:A1:1160:A:C2'	1:A1:1161:C:H6	2.12	0.55
1:A1:1348:A:C5'	15:AN:11:GLU:HA	2.37	0.55
1:A1:1402:G:C5	1:A1:1403:C:C5	2.95	0.55
1:A1:1407:U:C6	1:A1:1408:G:H8	2.25	0.55
1:A1:1498:G:C2	1:A1:1499:G:C8	2.95	0.55
2:AA:88:LYS:O	2:AA:90:ALA:N	2.40	0.55
20:AS:40:ARG:CB	74:AS:101:OHX:N6	2.70	0.55
29:B1:49:A:N1	29:B1:279:U:H4'	2.22	0.55
29:B1:154:U:C4'	29:B1:155:G:OP2	2.49	0.55
29:B1:257:U:O2'	29:B1:258:G:O5'	2.16	0.55
29:B1:334:A:C2'	29:B1:335:G:O5'	2.55	0.55
29:B1:342:A:N1	29:B1:349:A:H8	2.02	0.55
29:B1:347:G:N2	29:B1:353:G:C8	2.75	0.55
29:B1:371:G:N7	29:B1:373:A:OP2	2.40	0.55
29:B1:384:A:C5	29:B1:1465:A:C2	2.95	0.55
29:B1:402:A:N6	46:BQ:21:TYR:CB	2.70	0.55
29:B1:405:U:C5	29:B1:406:G:C8	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:562:C:C2’	29:B1:563:U:C5	2.70	0.55
29:B1:625:G:C2’	29:B1:626:U:O5’	2.55	0.55
29:B1:664:U:H2’	29:B1:665:A:C8	2.42	0.55
29:B1:670:C:O2’	29:B1:671:U:H5’	2.06	0.55
29:B1:749:C:N3	29:B1:750:G:N7	2.55	0.55
29:B1:760:G:N3	29:B1:760:G:C2’	2.70	0.55
29:B1:896:A:H62	29:B1:2133:U:H3	1.54	0.55
29:B1:1453:A:C8	29:B1:1850:A:C2	2.95	0.55
29:B1:1528:G:C4	29:B1:1529:A:C8	2.94	0.55
29:B1:1868:G:H8	29:B1:1868:G:O5’	1.90	0.55
29:B1:2361:A:H2’	29:B1:2362:C:C6	2.41	0.55
29:B1:2562:A:H2’	29:B1:2563:G:C8	2.40	0.55
29:B1:2651:G:HO2’	29:B1:2796:G:H1	1.50	0.55
29:B1:2779:A:C8	29:B1:2779:A:C5’	2.82	0.55
29:B1:2797:C:C3’	29:B1:2798:C:C5’	2.83	0.55
29:B1:2868:U:C5	29:B1:2869:U:H5	2.24	0.55
29:B1:2908:G:C6	29:B1:2909:U:C4	2.95	0.55
29:B1:3000:A:C2’	29:B1:3001:C:C6	2.86	0.55
29:B1:3341:U:C3’	29:B1:3343:G:H22	2.20	0.55
30:B2:24:A:C2’	30:B2:25:G:H8	2.19	0.55
30:B2:33:U:O2’	30:B2:34:C:C2	2.59	0.55
30:B2:65:G:N2	30:B2:66:A:C4	2.74	0.55
30:B2:70:U:O2’	30:B2:71:G:C5’	2.55	0.55
31:B3:74:U:O4	31:B3:77:A:H5”	2.06	0.55
31:B3:80:A:N3	31:B3:81:U:N3	2.55	0.55
31:B3:109:A:H2’	31:B3:110:C:H5’	1.88	0.55
34:BC:62:ARG:C	34:BC:64:GLY:N	2.64	0.55
35:BD:5:GLN:N	35:BD:21:PRO:HA	2.21	0.55
35:BD:134:LEU:O	35:BD:137:ALA:N	2.39	0.55
39:BH:100:GLU:O	39:BH:103:ALA:N	2.40	0.55
43:BN:18:GLY:O	43:BN:19:ARG:CB	2.53	0.55
45:BP:93:ALA:O	45:BP:94:ARG:C	2.48	0.55
46:BQ:128:ARG:CA	46:BQ:138:LYS:HA	2.36	0.55
53:BX:64:LYS:O	53:BX:66:GLN:N	2.39	0.55
57:Bb:20:HIS:O	57:Bb:22:SER:N	2.40	0.55
58:Bc:48:ARG:O	58:Bc:51:ILE:N	2.40	0.55
59:Bd:4:GLY:O	59:Bd:7:SER:N	2.38	0.55
1:C1:18:C:H2’	1:C1:19:A:C8	2.41	0.55
1:C1:93:A:N3	1:C1:399:A:C2	2.75	0.55
1:C1:130:C:C2	1:C1:177:U:OP1	2.60	0.55
1:C1:196:G:O2’	1:C1:197:A:O5’	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:295:A:H4'	1:C1:296:U:OP1	2.06	0.55
1:C1:320:U:OP2	1:C1:322:G:H5"	2.07	0.55
1:C1:438:A:O2'	1:C1:439:U:H5"	2.06	0.55
1:C1:446:A:C2'	1:C1:447:U:H5'	2.37	0.55
1:C1:475:A:H8	1:C1:475:A:OP2	1.89	0.55
1:C1:887:A:N3	1:C1:888:U:C6	2.75	0.55
1:C1:1046:G:C5	1:C1:1073:G:C2	2.94	0.55
1:C1:1348:A:P	15:CN:12:GLN:O	2.65	0.55
1:C1:1353:U:H3'	1:C1:1354:G:H8	1.72	0.55
1:C1:1377:U:H2'	1:C1:1378:U:C3'	2.37	0.55
1:C1:1543:A:C2	1:C1:1544:U:C1'	2.90	0.55
1:C1:1587:A:C6	1:C1:1588:G:N7	2.74	0.55
1:C1:1672:G:N1	1:C1:1673:G:C6	2.75	0.55
1:C1:1690:G:C2'	1:C1:1691:A:H5"	2.37	0.55
4:CC:192:PRO:O	4:CC:193:ALA:HB3	2.07	0.55
5:CD:112:ARG:O	5:CD:115:LYS:N	2.40	0.55
7:CF:129:ARG:O	7:CF:130:PRO:C	2.49	0.55
13:CL:101:LEU:O	13:CL:102:ALA:CB	2.55	0.55
14:CM:58:ALA:C	14:CM:60:SER:N	2.65	0.55
21:CT:212:ALA:HA	21:CT:222:LEU:HA	1.88	0.55
29:D1:107:A:H8	29:D1:107:A:O5'	1.90	0.55
29:D1:517:G:OP2	29:D1:518:G:OP2	2.24	0.55
29:D1:706:A:C6	29:D1:714:G:C2	2.94	0.55
29:D1:1081:U:H2'	29:D1:1081:U:O2	2.06	0.55
29:D1:1105:A:C6	29:D1:1106:G:C5	2.95	0.55
29:D1:1202:A:H2'	29:D1:1203:A:OP2	2.07	0.55
29:D1:1269:U:H3	29:D1:1271:A:H62	1.53	0.55
29:D1:1377:G:C2	29:D1:1378:U:C6	2.95	0.55
29:D1:1447:G:HO2'	29:D1:2355:G:H1	1.54	0.55
29:D1:1627:U:C5'	29:D1:1628:C:OP2	2.55	0.55
29:D1:1711:C:H2'	29:D1:1712:G:O4'	2.07	0.55
29:D1:1760:A:C6	29:D1:1766:G:C6	2.94	0.55
29:D1:2361:A:C8	29:D1:2362:C:C5	2.94	0.55
29:D1:2496:C:H2'	29:D1:2497:U:C6	2.42	0.55
29:D1:2593:A:C4'	29:D1:2594:C:OP2	2.54	0.55
29:D1:2640:A:C2'	29:D1:2641:U:H6	2.16	0.55
29:D1:2667:A:N7	29:D1:2690:G:N2	2.55	0.55
29:D1:2680:A:C8	42:DK:53:THR:O	2.59	0.55
29:D1:2882:U:H2'	29:D1:2883:U:C5'	2.37	0.55
29:D1:2897:A:H2'	29:D1:2899:C:C5'	2.31	0.55
29:D1:2997:G:C1'	29:D1:2998:U:O5'	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3030:G:H2'	29:D1:3031:G:C8	2.42	0.55
29:D1:3095:U:H2'	29:D1:3096:C:O5'	2.06	0.55
29:D1:3218:A:C3'	29:D1:3220:G:OP2	2.55	0.55
29:D1:3228:C:N1	29:D1:3229:G:N7	2.54	0.55
29:D1:3237:U:O4	29:D1:3250:U:O4	2.25	0.55
29:D1:3238:G:C6	29:D1:3250:U:C4	2.95	0.55
29:D1:3308:C:C6	29:D1:3308:C:C3'	2.90	0.55
29:D1:3315:G:O4'	29:D1:3320:A:O5'	2.25	0.55
29:D1:3320:A:O2'	29:D1:3321:C:O4'	2.19	0.55
30:D2:90:U:C4	30:D2:91:G:C4	2.95	0.55
31:D3:106:C:C6	31:D3:138:A:N7	2.75	0.55
34:DC:327:CYS:O	34:DC:328:ILE:C	2.50	0.55
36:DE:43:LYS:N	49:DT:69:LYS:CB	2.61	0.55
38:DG:145:ARG:O	38:DG:146:GLN:C	2.50	0.55
44:DO:83:LYS:CB	44:DO:84:PRO:CB	2.84	0.55
44:DO:143:ARG:HA	44:DO:146:ALA:HB2	1.88	0.55
51:DV:7:SER:O	51:DV:9:SER:N	2.39	0.55
59:Dd:67:LEU:HA	59:Dd:70:VAL:O	2.07	0.55
1:A1:57:G:C4	1:A1:91:G:N2	2.75	0.55
1:A1:60:U:C2'	1:A1:61:A:H5'	2.36	0.55
1:A1:180:A:C5	1:A1:181:A:C2	2.95	0.55
1:A1:210:A:C5	1:A1:211:U:C5	2.95	0.55
1:A1:551:G:C2	1:A1:552:G:N7	2.75	0.55
1:A1:551:G:N1	1:A1:552:G:C5	2.75	0.55
1:A1:749:U:C4	1:A1:750:U:O4	2.60	0.55
1:A1:837:G:H2'	1:A1:838:G:H8	1.72	0.55
1:A1:871:G:C6	1:A1:957:G:C6	2.95	0.55
1:A1:877:G:C2	1:A1:878:G:C8	2.94	0.55
1:A1:964:U:O4'	1:A1:965:U:C2	2.59	0.55
1:A1:1012:U:O5'	1:A1:1012:U:H6	1.89	0.55
1:A1:1325:A:C2	1:A1:1326:A:C5	2.95	0.55
1:A1:1349:G:H4'	1:A1:1350:U:C5'	2.36	0.55
1:A1:1380:U:O2'	1:A1:1381:U:H5'	2.07	0.55
1:A1:1416:G:H2'	1:A1:1417:A:O4'	2.07	0.55
1:A1:1537:C:C5'	1:A1:1538:U:OP1	2.54	0.55
1:A1:1569:A:C4	1:A1:1570:A:C8	2.95	0.55
1:A1:1584:G:C4	11:AJ:124:PRO:HA	2.42	0.55
5:AD:169:ASN:O	5:AD:172:ILE:N	2.36	0.55
12:AK:27:ASP:O	12:AK:29:GLN:N	2.39	0.55
13:AL:101:LEU:O	13:AL:102:ALA:CB	2.55	0.55
28:Ah:4:UNK:O	28:Ah:5:UNK:C	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:85:A:C8	29:B1:87:U:N3	2.75	0.55
29:B1:96:G:H5"	29:B1:96:G:C8	2.42	0.55
29:B1:96:G:H5"	29:B1:96:G:H8	1.72	0.55
29:B1:224:C:C2'	29:B1:225:C:O5'	2.55	0.55
29:B1:232:G:C4	29:B1:233:C:C6	2.94	0.55
29:B1:340:C:C5	31:B3:25:G:N2	2.75	0.55
29:B1:349:A:H2	31:B3:24:G:C4	2.24	0.55
29:B1:524:U:C2	29:B1:525:C:C6	2.95	0.55
29:B1:641:C:HO2'	29:B1:642:U:P	2.29	0.55
29:B1:733:G:N3	29:B1:733:G:C2'	2.70	0.55
29:B1:1205:A:C4	29:B1:1206:G:C8	2.95	0.55
29:B1:1300:G:C6	29:B1:1301:A:N6	2.75	0.55
29:B1:1388:U:H2'	29:B1:1389:G:C8	2.42	0.55
29:B1:1446:A:OP1	29:B1:2984:C:H5"	2.07	0.55
29:B1:1731:A:C5	29:B1:1732:U:C5	2.95	0.55
29:B1:1879:A:HO2'	29:B1:1880:U:H4'	1.68	0.55
29:B1:1953:G:C5	29:B1:2093:A:C5	2.95	0.55
29:B1:2120:A:O2'	29:B1:2121:G:P	2.63	0.55
29:B1:2140:U:H2'	29:B1:2977:G:O2'	2.07	0.55
29:B1:2270:A:N1	29:B1:2271:A:C2	2.75	0.55
29:B1:2658:G:H1	29:B1:2712:U:H3	1.54	0.55
29:B1:2761:G:N2	29:B1:2795:U:C6	2.75	0.55
29:B1:3005:A:C2	29:B1:3140:G:C2	2.95	0.55
29:B1:3079:U:H3'	29:B1:3080:G:C5'	2.37	0.55
29:B1:3105:U:C6	29:B1:3128:G:N2	2.75	0.55
29:B1:3149:G:C2	29:B1:3150:A:N9	2.75	0.55
29:B1:3205:G:H22	43:BN:89:ALA:HB1	1.71	0.55
30:B2:27:A:C2	30:B2:54:U:C5	2.95	0.55
30:B2:56:A:O3'	42:BK:149:GLY:CA	2.54	0.55
30:B2:72:A:O2'	30:B2:73:C:H5'	2.05	0.55
31:B3:104:A:H5'	31:B3:105:A:H5"	1.89	0.55
32:BA:192:SER:HA	32:BA:197:ASN:O	2.06	0.55
33:BB:200:ARG:C	33:BB:202:VAL:H	2.14	0.55
36:BE:281:GLU:O	36:BE:282:ARG:C	2.49	0.55
37:BF:20:LYS:CB	37:BF:113:LYS:H	2.20	0.55
40:BI:166:ARG:O	40:BI:167:VAL:CB	2.55	0.55
41:BJ:61:SER:HA	41:BJ:126:ALA:HB1	1.87	0.55
43:BN:24:LYS:CB	43:BN:31:LYS:HA	2.37	0.55
43:BN:95:ALA:C	43:BN:97:SER:H	2.15	0.55
46:BQ:52:LEU:H	46:BQ:54:HIS:H	1.54	0.55
53:BX:49:PRO:O	53:BX:50:ILE:C	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:89:LYS:C	53:BX:91:ASN:H	2.14	0.55
54:BY:29:PRO:O	54:BY:31:GLY:N	2.40	0.55
1:C1:147:A:H3'	1:C1:148:A:C8	2.42	0.55
1:C1:264:G:C3'	1:C1:265:A:C5'	2.77	0.55
1:C1:327:U:C2	1:C1:328:A:C8	2.95	0.55
1:C1:377:G:O2'	1:C1:378:A:OP2	2.22	0.55
1:C1:527:A:H3'	1:C1:528:U:C5'	2.34	0.55
1:C1:533:U:C3'	1:C1:534:A:H8	2.17	0.55
1:C1:537:G:N2	1:C1:538:A:H1'	2.22	0.55
1:C1:755:A:H4'	1:C1:756:A:OP1	2.06	0.55
1:C1:795:U:C5	1:C1:796:A:C5	2.95	0.55
1:C1:873:U:N3	1:C1:874:C:C4	2.75	0.55
1:C1:989:U:H2'	1:C1:990:C:O4'	2.08	0.55
1:C1:1006:C:C5	1:C1:1007:C:H5	2.24	0.55
8:CG:80:LEU:O	8:CG:81:ALA:HB2	2.07	0.55
10:CI:21:ASP:O	10:CI:23:GLU:N	2.39	0.55
15:CN:32:LYS:C	15:CN:34:LEU:H	2.13	0.55
21:CT:135:THR:C	21:CT:137:LYS:N	2.64	0.55
29:D1:92:G:C6	29:D1:94:G:N2	2.75	0.55
29:D1:127:G:H2'	29:D1:128:G:C8	2.42	0.55
29:D1:244:G:H3'	29:D1:245:U:H5'	1.87	0.55
29:D1:381:U:H3	29:D1:387:A:H61	1.55	0.55
29:D1:506:U:O2'	29:D1:1166:G:H4'	2.06	0.55
29:D1:650:C:H5'	29:D1:2872:A:OP2	2.07	0.55
29:D1:704:U:C6	29:D1:704:U:C3'	2.89	0.55
29:D1:722:G:C2	29:D1:748:U:O2	2.60	0.55
29:D1:763:G:H21	29:D1:767:U:C2'	2.19	0.55
29:D1:797:U:H2'	29:D1:798:G:C8	2.42	0.55
29:D1:863:C:H2'	29:D1:864:G:H5'	1.89	0.55
29:D1:1034:U:O2	29:D1:1034:U:O4'	2.25	0.55
29:D1:1257:C:N3	29:D1:1258:U:C4	2.74	0.55
29:D1:1274:A:C2'	29:D1:1275:C:H5"	2.29	0.55
29:D1:1417:G:C8	29:D1:1417:G:O5'	2.59	0.55
29:D1:1780:G:C2	29:D1:1781:C:C4	2.95	0.55
29:D1:1843:C:C2'	29:D1:1844:C:H5'	2.36	0.55
29:D1:2252:A:C4	29:D1:2253:G:C8	2.94	0.55
29:D1:2435:G:O2'	29:D1:2436:U:OP2	2.24	0.55
29:D1:2896:A:H5'	29:D1:2896:A:C8	2.42	0.55
29:D1:2961:G:C5	29:D1:2962:U:C5	2.94	0.55
29:D1:3104:U:C2	29:D1:3129:A:N7	2.75	0.55
29:D1:3121:U:O4'	29:D1:3122:A:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3166:C:OP2	29:D1:3166:C:H3'	2.07	0.55
29:D1:3273:A:C6	29:D1:3274:A:C8	2.95	0.55
29:D1:3314:A:H5"	34:DC:118:PHE:C	2.32	0.55
29:D1:3381:U:C4	29:D1:3383:G:O6	2.60	0.55
30:D2:11:A:O4'	30:D2:13:A:C2'	2.53	0.55
30:D2:25:G:C2	30:D2:26:C:N4	2.74	0.55
30:D2:30:G:C6	30:D2:49:G:N1	2.75	0.55
30:D2:85:G:O6	30:D2:95:A:N1	2.40	0.55
43:DN:97:SER:O	43:DN:100:ALA:N	2.39	0.55
48:DS:5:ARG:O	48:DS:8:LYS:N	2.40	0.55
54:DY:137:LYS:O	54:DY:140:ALA:CB	2.55	0.55
55:DZ:32:LYS:O	55:DZ:33:SER:C	2.48	0.55
57:Db:78:ASN:O	57:Db:80:LYS:N	2.40	0.55
59:Dd:52:LYS:CA	59:Dd:53:ALA:HB3	2.36	0.55
1:A1:26:A:OP1	1:A1:26:A:H3'	2.07	0.54
1:A1:298:C:C5	1:A1:299:A:C8	2.95	0.54
1:A1:406:U:OP2	1:A1:406:U:H6	1.90	0.54
1:A1:472:U:H2'	1:A1:473:A:O4'	2.07	0.54
1:A1:623:A:H3'	1:A1:623:A:OP2	2.07	0.54
1:A1:842:C:O2'	1:A1:843:U:H5'	2.07	0.54
1:A1:906:A:OP2	9:AH:50:ALA:C	2.50	0.54
1:A1:1039:A:N7	1:A1:1091:A:C2	2.75	0.54
1:A1:1065:A:C2'	1:A1:1066:C:C6	2.90	0.54
1:A1:1164:G:H2'	1:A1:1165:G:C8	2.41	0.54
1:A1:1390:U:H2'	1:A1:1391:A:OP2	2.06	0.54
1:A1:1398:U:C2'	1:A1:1399:C:O5'	2.55	0.54
1:A1:1583:A:C2	1:A1:1585:U:C4	2.95	0.54
2:AA:50:VAL:O	2:AA:53:THR:N	2.40	0.54
6:AE:82:ARG:C	6:AE:84:GLY:N	2.54	0.54
12:AK:27:ASP:C	12:AK:29:GLN:H	2.15	0.54
13:AL:76:PRO:C	13:AL:78:HIS:H	2.14	0.54
15:AN:75:GLY:O	15:AN:76:SER:CB	2.54	0.54
20:AS:46:LYS:O	20:AS:48:ASN:N	2.40	0.54
21:AT:138:GLY:O	21:AT:139:GLN:C	2.50	0.54
28:Ah:56:UNK:O	29:B1:3352:U:C6	2.60	0.54
29:B1:41:G:N7	29:B1:42:C:C4	2.76	0.54
29:B1:71:A:N7	29:B1:72:C:C5	2.75	0.54
29:B1:73:C:OP2	29:B1:73:C:H3'	2.07	0.54
29:B1:334:A:O2'	29:B1:335:G:O5'	2.22	0.54
29:B1:885:U:C2	29:B1:886:C:C5	2.96	0.54
29:B1:1011:A:H2'	29:B1:1011:A:N3	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1061:A:C6	29:B1:1062:A:C6	2.95	0.54
29:B1:1075:A:H2	69:Bp:245:UNK:O	1.89	0.54
29:B1:1135:A:C2'	29:B1:1136:A:H5'	2.37	0.54
29:B1:1180:A:N1	29:B1:1182:A:C5	2.75	0.54
29:B1:1390:A:N7	29:B1:1418:A:N7	2.55	0.54
29:B1:1461:A:H2'	29:B1:1462:A:O4'	2.07	0.54
29:B1:1464:G:H22	29:B1:1466:G:H3'	1.69	0.54
29:B1:1713:G:C8	29:B1:1714:A:H2	2.25	0.54
29:B1:1757:A:C6	29:B1:1769:G:C6	2.95	0.54
29:B1:2257:C:H5'	29:B1:2258:U:H5	1.72	0.54
29:B1:2370:G:N7	29:B1:2371:G:N7	2.55	0.54
29:B1:2576:G:C5	29:B1:2577:C:C5	2.95	0.54
29:B1:2588:U:C5'	29:B1:2589:G:OP2	2.53	0.54
29:B1:2615:G:C6	29:B1:2616:C:N4	2.75	0.54
29:B1:2665:U:C2	29:B1:2706:G:C2	2.95	0.54
29:B1:2716:U:C5'	29:B1:2717:U:OP2	2.55	0.54
29:B1:2749:G:N7	29:B1:2750:U:C5	2.75	0.54
29:B1:3074:G:C2'	29:B1:3075:G:H5'	2.38	0.54
29:B1:3121:U:C4'	29:B1:3122:A:H5'	2.37	0.54
29:B1:3310:A:C6	29:B1:3311:C:C6	2.95	0.54
29:B1:3317:U:H5	74:B1:3574:OHX:N3	2.03	0.54
29:B1:3368:U:H6	29:B1:3368:U:C5'	2.19	0.54
30:B2:26:C:O2'	30:B2:27:A:O5'	2.25	0.54
30:B2:56:A:O2'	42:BK:136:ALA:HB2	2.07	0.54
31:B3:2:A:N6	31:B3:3:A:N1	2.54	0.54
31:B3:37:A:H2	31:B3:106:C:H42	1.52	0.54
31:B3:70:G:H5'	31:B3:71:A:N7	2.22	0.54
31:B3:81:U:C3'	31:B3:82:U:C5'	2.84	0.54
34:BC:132:LYS:C	34:BC:134:SER:N	2.65	0.54
35:BD:97:GLY:O	35:BD:98:ARG:O	2.26	0.54
46:BQ:98:ALA:O	46:BQ:101:ASN:N	2.40	0.54
46:BQ:120:ASN:O	46:BQ:144:SER:O	2.26	0.54
46:BQ:128:ARG:HA	46:BQ:138:LYS:CA	2.37	0.54
47:BR:36:LEU:O	47:BR:37:ALA:HB3	2.07	0.54
56:Ba:14:ILE:H	56:Ba:72:ARG:N	1.97	0.54
62:Bg:60:CYS:CB	74:Bg:101:OHX:N6	2.71	0.54
1:C1:89:G:C4	1:C1:90:C:C5	2.95	0.54
1:C1:264:G:H3'	1:C1:265:A:C4'	2.36	0.54
1:C1:452:A:N1	1:C1:454:U:C6	2.75	0.54
1:C1:601:A:H3'	1:C1:602:U:H6	1.71	0.54
1:C1:691:C:O2'	1:C1:692:C:P	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:791:A:C4	1:C1:792:U:H5	2.25	0.54
1:C1:833:U:O2	1:C1:833:U:C2'	2.55	0.54
1:C1:886:U:H3'	1:C1:887:A:H8	1.71	0.54
1:C1:973:A:C2'	29:D1:847:A:H2	2.19	0.54
1:C1:991:G:N2	1:C1:1014:G:C6	2.74	0.54
1:C1:1094:G:O2'	1:C1:1095:U:C6	2.57	0.54
1:C1:1138:A:C2	1:C1:1139:A:C8	2.95	0.54
1:C1:1283:U:O2	1:C1:1283:U:H2'	2.07	0.54
1:C1:1418:G:N7	74:C1:1902:OHX:N4	2.55	0.54
1:C1:1515:A:H2'	1:C1:1516:A:H4'	1.89	0.54
1:C1:1631:A:C5	1:C1:1632:C:C2	2.96	0.54
1:C1:1770:U:N3	1:C1:1793:G:N2	2.55	0.54
2:CA:91:ALA:C	2:CA:93:THR:H	2.15	0.54
14:CM:17:ALA:C	14:CM:19:ALA:H	2.15	0.54
21:CT:138:GLY:O	21:CT:139:GLN:C	2.50	0.54
29:D1:25:U:H2'	29:D1:26:A:C8	2.42	0.54
29:D1:172:G:N2	29:D1:173:G:C5	2.75	0.54
29:D1:253:A:N6	29:D1:254:A:N6	2.55	0.54
29:D1:519:A:H62	37:DF:30:LEU:HA	1.72	0.54
29:D1:576:C:O2'	29:D1:577:C:OP1	2.25	0.54
29:D1:578:A:HO2'	29:D1:579:G:P	2.28	0.54
29:D1:743:C:H6	29:D1:743:C:H3'	1.72	0.54
29:D1:1065:A:O3'	29:D1:1066:G:C8	2.61	0.54
29:D1:1183:C:C2'	29:D1:1184:A:H5"	2.37	0.54
29:D1:1198:C:C2'	29:D1:1200:A:H8	2.20	0.54
29:D1:1276:U:N3	29:D1:1277:C:C5	2.75	0.54
29:D1:1291:A:C2'	29:D1:1292:C:O5'	2.55	0.54
29:D1:1332:A:O5'	29:D1:1332:A:C8	2.60	0.54
29:D1:1376:C:N3	29:D1:1377:G:N7	2.54	0.54
29:D1:1444:G:H2'	29:D1:1445:U:C5'	2.37	0.54
29:D1:1838:G:O4'	29:D1:1839:A:C8	2.60	0.54
29:D1:1878:G:H3'	29:D1:1879:A:C5'	2.37	0.54
29:D1:2221:G:N2	29:D1:2225:U:N3	2.55	0.54
29:D1:2253:G:H3'	29:D1:2254:U:H5	1.71	0.54
29:D1:2520:A:C2	29:D1:2521:U:C2	2.94	0.54
29:D1:2544:U:H2'	29:D1:2545:C:H6	1.73	0.54
29:D1:2607:G:N1	29:D1:2608:G:C5	2.74	0.54
29:D1:2950:G:H22	29:D1:2979:U:H2'	1.71	0.54
29:D1:3025:C:H2'	29:D1:3026:G:H5'	1.89	0.54
29:D1:3200:G:H2'	29:D1:3201:C:C6	2.42	0.54
29:D1:3323:A:C2'	29:D1:3324:C:O5'	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3377:G:H2'	74:D1:3452:OHX:N5	2.22	0.54
29:D1:3386:G:H8	29:D1:3386:G:H3'	1.72	0.54
30:D2:94:C:O2'	30:D2:95:A:H5'	2.07	0.54
32:DA:157:PHE:CB	32:DA:166:ALA:H	2.20	0.54
34:DC:132:LYS:C	34:DC:134:SER:N	2.65	0.54
34:DC:153:LYS:CB	34:DC:155:ALA:CB	2.83	0.54
36:DE:77:ALA:O	36:DE:78:ALA:HB2	2.07	0.54
36:DE:289:LYS:C	36:DE:291:ALA:N	2.63	0.54
37:DF:91:VAL:O	37:DF:92:SER:O	2.25	0.54
40:DI:20:ILE:HA	40:DI:25:VAL:HA	1.88	0.54
41:DJ:121:LYS:O	41:DJ:122:PRO:C	2.50	0.54
43:DN:86:ALA:HA	43:DN:90:VAL:CB	2.36	0.54
44:DO:49:ARG:HA	44:DO:53:TYR:H	1.73	0.54
45:DP:130:LYS:CA	45:DP:131:PRO:CB	2.85	0.54
46:DQ:5:GLY:N	46:DQ:6:ALA:HA	2.18	0.54
50:DU:17:LEU:CB	50:DU:52:ALA:HB3	2.36	0.54
59:Dd:52:LYS:HA	59:Dd:53:ALA:HB3	1.88	0.54
62:Dg:60:CYS:N	74:Dg:101:OHX:N5	2.55	0.54
63:Dh:12:UNK:HA	63:Dh:15:UNK:CB	2.37	0.54
1:A1:15:U:C1'	1:A1:619:A:C2	2.90	0.54
1:A1:47:A:C8	1:A1:425:A:C5	2.96	0.54
1:A1:98:U:H2'	1:A1:99:C:C6	2.42	0.54
1:A1:181:A:C6	1:A1:182:A:N1	2.75	0.54
1:A1:287:G:C6	1:A1:288:A:C6	2.95	0.54
1:A1:331:A:H4'	1:A1:1676:U:H6	1.71	0.54
1:A1:539:G:HO2'	1:A1:542:A:H8	1.50	0.54
1:A1:567:A:N6	1:A1:568:G:C4	2.75	0.54
1:A1:815:G:H4'	1:A1:816:G:OP2	2.08	0.54
1:A1:888:U:H3'	1:A1:889:U:H6	1.72	0.54
1:A1:1259:U:C2'	1:A1:1260:U:O5'	2.55	0.54
1:A1:1310:U:C2'	1:A1:1311:U:O5'	2.55	0.54
1:A1:1318:G:O2'	1:A1:1319:A:H5'	2.06	0.54
1:A1:1336:A:H5"	1:A1:1337:A:OP2	2.07	0.54
1:A1:1491:U:H3'	1:A1:1492:A:C2'	2.35	0.54
1:A1:1534:G:H4'	1:A1:1536:G:O6	2.06	0.54
1:A1:1599:C:O2	1:A1:1600:A:C2	2.60	0.54
1:A1:1640:C:H6	1:A1:1640:C:O5'	1.89	0.54
1:A1:1655:A:H2	29:B1:2291:A:N3	2.04	0.54
4:AC:66:ILE:O	4:AC:67:ASN:C	2.48	0.54
4:AC:117:ARG:O	4:AC:118:ALA:C	2.51	0.54
14:AM:63:ARG:C	14:AM:65:ILE:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AQ:87:GLY:O	18:AQ:88:ILE:CB	2.55	0.54
24:Ac:33:UNK:C	24:Ac:35:UNK:N	2.67	0.54
29:B1:65:A:C3'	29:B1:111:C:H41	2.18	0.54
29:B1:109:A:N6	29:B1:323:A:H1'	2.22	0.54
29:B1:294:U:O2'	29:B1:295:A:H5"	2.06	0.54
29:B1:308:A:H2	29:B1:2782:U:N3	2.02	0.54
29:B1:531:G:N2	29:B1:561:C:C2	2.49	0.54
29:B1:549:U:O4	74:B1:3513:OHX:N5	2.40	0.54
29:B1:573:C:C2'	29:B1:574:U:H5'	2.37	0.54
29:B1:581:U:O2	29:B1:581:U:C2'	2.55	0.54
29:B1:643:U:H3'	29:B1:643:U:C6	2.42	0.54
29:B1:722:G:HO2'	29:B1:723:U:P	2.28	0.54
29:B1:736:A:C8	29:B1:737:G:C8	2.95	0.54
29:B1:882:A:C2'	29:B1:883:A:H5"	2.37	0.54
29:B1:992:A:N1	29:B1:993:G:C8	2.74	0.54
29:B1:1063:G:O2'	29:B1:1064:A:C5'	2.55	0.54
29:B1:1193:A:H8	29:B1:1194:G:C2	2.23	0.54
29:B1:1196:C:O2	30:B2:86:U:N1	2.41	0.54
29:B1:1324:U:C6	29:B1:1324:U:C4'	2.90	0.54
29:B1:1595:U:O2'	29:B1:1596:C:H5"	2.07	0.54
29:B1:1912:U:N3	29:B1:1913:A:C2	2.76	0.54
29:B1:2157:G:N1	29:B1:2178:A:OP2	2.40	0.54
29:B1:2193:U:H5'	29:B1:2312:A:H2	1.68	0.54
29:B1:2357:A:H2'	29:B1:2358:A:C8	2.41	0.54
29:B1:2389:C:C2'	29:B1:2390:A:O5'	2.55	0.54
29:B1:2407:C:H1'	29:B1:2818:U:C2	2.41	0.54
29:B1:2671:A:N6	29:B1:2672:G:O6	2.40	0.54
29:B1:2727:A:N1	29:B1:2728:G:O6	2.41	0.54
29:B1:3025:C:O2'	29:B1:3026:G:H5'	2.08	0.54
29:B1:3234:A:C2	29:B1:3235:C:C5	2.94	0.54
29:B1:3236:U:C4	29:B1:3237:U:O4	2.61	0.54
29:B1:3282:U:C2	29:B1:3283:U:C5	2.95	0.54
29:B1:3361:G:H2'	29:B1:3362:A:C5'	2.35	0.54
33:BB:182:ALA:C	33:BB:185:ALA:H	2.15	0.54
1:C1:22:A:N6	1:C1:604:A:N6	2.54	0.54
1:C1:71:A:H4'	1:C1:72:A:OP2	2.06	0.54
1:C1:174:U:N3	1:C1:175:G:C5	2.76	0.54
1:C1:236:A:C2	1:C1:237:C:N3	2.74	0.54
1:C1:401:A:O2'	1:C1:402:C:O2'	2.24	0.54
1:C1:763:G:C6	1:C1:764:U:O4	2.60	0.54
1:C1:873:U:C4	1:C1:874:C:N4	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:977:A:C6	1:C1:1025:A:N3	2.76	0.54
1:C1:1025:A:N7	1:C1:1027:A:C4	2.75	0.54
1:C1:1608:U:C2	1:C1:1609:U:C5	2.95	0.54
6:CE:175:ARG:C	6:CE:177:ALA:H	2.15	0.54
8:CG:88:LEU:O	8:CG:90:TYR:N	2.40	0.54
13:CL:71:GLN:O	13:CL:74:GLN:N	2.36	0.54
20:CS:46:LYS:O	20:CS:48:ASN:N	2.40	0.54
21:CT:135:THR:O	21:CT:137:LYS:N	2.40	0.54
24:Cc:15:UNK:C	24:Cc:17:UNK:N	2.67	0.54
25:Cd:114:UNK:O	25:Cd:117:UNK:N	2.40	0.54
29:D1:35:A:C5	29:D1:36:C:C5	2.95	0.54
29:D1:106:A:H5”	29:D1:684:G:O3’	2.05	0.54
29:D1:125:C:C2’	29:D1:126:U:H5’	2.37	0.54
29:D1:371:G:N7	29:D1:373:A:OP2	2.40	0.54
29:D1:755:A:C2	29:D1:778:U:C2	2.95	0.54
29:D1:907:G:C5	29:D1:926:A:C8	2.96	0.54
29:D1:1029:G:H8	29:D1:1029:G:O5’	1.90	0.54
29:D1:1049:C:C2	29:D1:1050:U:C5	2.94	0.54
29:D1:1083:G:H2’	29:D1:1084:A:O4’	2.08	0.54
29:D1:1194:G:C8	29:D1:1319:G:C5’	2.90	0.54
29:D1:1500:G:H2’	29:D1:1501:U:H6	1.71	0.54
29:D1:1501:U:O2’	29:D1:1502:C:C5’	2.54	0.54
29:D1:1524:A:C1’	29:D1:1525:G:OP1	2.55	0.54
29:D1:1838:G:C4’	29:D1:1839:A:C8	2.90	0.54
29:D1:2167:A:C2’	29:D1:2168:A:C8	2.87	0.54
29:D1:2240:G:H2’	29:D1:2241:U:O5’	2.06	0.54
29:D1:2337:C:H2’	29:D1:2338:C:H6	1.72	0.54
29:D1:2357:A:H2’	29:D1:2358:A:H8	1.73	0.54
29:D1:2619:G:P	29:D1:2619:G:H8	2.30	0.54
29:D1:2690:G:O2’	29:D1:2691:A:P	2.64	0.54
29:D1:3005:A:C2	29:D1:3140:G:N3	2.75	0.54
29:D1:3069:G:N1	29:D1:3070:A:N7	2.54	0.54
29:D1:3376:A:H3’	29:D1:3377:G:C5’	2.38	0.54
29:D1:3394:U:O2’	29:D1:3395:G:H8	1.90	0.54
30:D2:69:C:C2	30:D2:110:G:C2	2.96	0.54
31:D3:69:U:P	31:D3:70:G:OP2	2.65	0.54
31:D3:89:A:N3	31:D3:89:A:H3’	2.22	0.54
31:D3:132:G:C2	31:D3:133:G:C5	2.95	0.54
32:DA:6:SER:C	32:DA:8:GLN:H	2.15	0.54
34:DC:193:ASP:O	34:DC:195:ALA:N	2.39	0.54
39:DH:108:ARG:O	39:DH:110:THR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:84:LEU:O	42:DK:85:LYS:O	2.25	0.54
47:DR:158:HIS:O	47:DR:159:LYS:CB	2.55	0.54
51:DV:41:LYS:C	51:DV:43:ARG:N	2.59	0.54
54:DY:138:ILE:C	54:DY:143:GLY:HA3	2.32	0.54
55:DZ:24:THR:O	55:DZ:25:LEU:O	2.25	0.54
1:A1:10:G:C2	1:A1:11:A:C4	2.95	0.54
1:A1:63:G:C5	1:A1:64:U:C6	2.95	0.54
1:A1:118:U:O2	1:A1:299:A:C2	2.61	0.54
1:A1:224:C:N4	1:A1:838:G:N1	2.55	0.54
1:A1:236:A:C2	1:A1:237:C:N3	2.76	0.54
1:A1:313:U:H5	1:A1:1118:G:N1	2.04	0.54
1:A1:407:A:C4'	1:A1:1672:G:H4'	2.38	0.54
1:A1:434:G:N2	1:A1:437:A:H2	2.05	0.54
1:A1:615:A:C6	1:A1:1107:G:C6	2.95	0.54
1:A1:765:G:H4'	1:A1:766:U:OP1	2.02	0.54
1:A1:906:A:OP2	9:AH:49:LYS:O	2.26	0.54
1:A1:1002:G:C2	1:A1:1003:A:N1	2.75	0.54
1:A1:1110:G:O2'	1:A1:1111:G:C5'	2.56	0.54
1:A1:1345:A:C8	1:A1:1346:A:N7	2.76	0.54
1:A1:1421:A:H5"	4:AC:159:HIS:O	2.08	0.54
1:A1:1516:A:H8	15:AN:16:GLN:CB	2.20	0.54
1:A1:1783:C:C2	1:A1:1784:C:C5	2.95	0.54
2:AA:67:ILE:C	2:AA:69:ASN:H	2.15	0.54
4:AC:162:GLN:O	4:AC:165:ASN:C	2.50	0.54
5:AD:112:ARG:O	5:AD:113:ILE:C	2.50	0.54
29:B1:342:A:C5	29:B1:349:A:N7	2.76	0.54
29:B1:397:A:C6	29:B1:400:G:C6	2.95	0.54
29:B1:415:G:H2'	29:B1:416:A:C8	2.33	0.54
29:B1:503:C:O2'	29:B1:504:A:H5'	2.08	0.54
29:B1:549:U:O4	74:B1:3513:OHX:N2	2.40	0.54
29:B1:571:U:H2'	29:B1:571:U:O2	2.06	0.54
29:B1:681:U:O2'	29:B1:682:U:P	2.65	0.54
29:B1:712:G:H2'	29:B1:713:U:O4'	2.06	0.54
29:B1:943:U:O4'	29:B1:1432:C:C6	2.61	0.54
29:B1:994:G:C2'	29:B1:1053:A:H61	2.20	0.54
29:B1:994:G:HO2'	29:B1:1053:A:H61	1.55	0.54
29:B1:1317:A:C5	29:B1:1319:G:C5	2.95	0.54
29:B1:1337:A:C6	29:B1:1338:C:C5	2.95	0.54
29:B1:1357:G:C2'	29:B1:1358:C:H6	2.20	0.54
29:B1:1448:U:O4	29:B1:2355:G:C4	2.60	0.54
29:B1:1523:U:H5'	52:BW:113:LEU:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1550:C:H2'	29:B1:1551:C:H5'	1.90	0.54
29:B1:1902:G:N3	29:B1:1903:U:H1'	2.22	0.54
29:B1:2269:U:C5	29:B1:2272:G:O6	2.60	0.54
29:B1:2829:U:C2'	29:B1:2830:G:H5'	2.36	0.54
29:B1:2838:A:N1	29:B1:2851:A:C8	2.75	0.54
29:B1:2872:A:H1'	29:B1:2873:U:H5'	1.90	0.54
29:B1:2997:G:N2	29:B1:2998:U:H4'	2.22	0.54
29:B1:3049:A:N3	34:BC:75:ALA:CB	2.69	0.54
29:B1:3184:A:H2'	29:B1:3187:A:O2'	2.07	0.54
29:B1:3283:U:C2'	29:B1:3284:G:O4'	2.54	0.54
29:B1:3350:C:H2'	29:B1:3351:U:H3	1.71	0.54
29:B1:3377:G:O5'	74:B1:3450:OHX:N6	2.40	0.54
30:B2:46:A:H3'	30:B2:46:A:C4	2.40	0.54
30:B2:56:A:H5"	30:B2:56:A:C8	2.39	0.54
30:B2:69:C:O2	30:B2:110:G:C2	2.60	0.54
31:B3:106:C:O4'	31:B3:138:A:H8	1.89	0.54
34:BC:105:VAL:C	34:BC:107:ALA:N	2.62	0.54
36:BE:179:ARG:O	36:BE:180:PHE:C	2.47	0.54
40:BI:2:LYS:HA	40:BI:60:GLY:O	2.08	0.54
42:BK:27:GLY:HA2	42:BK:29:ARG:N	2.15	0.54
55:BZ:32:LYS:O	55:BZ:33:SER:C	2.50	0.54
1:C1:23:G:H2'	1:C1:24:U:C6	2.42	0.54
1:C1:103:A:H4'	1:C1:104:A:O5'	2.08	0.54
1:C1:365:G:C5	1:C1:377:G:N1	2.75	0.54
1:C1:722:G:C4	1:C1:723:G:N7	2.76	0.54
1:C1:901:G:H5'	1:C1:902:G:N7	2.22	0.54
1:C1:977:A:C2'	1:C1:978:A:H5'	2.35	0.54
1:C1:1431:C:H5'	1:C1:1432:U:H5'	1.90	0.54
1:C1:1535:U:O2'	1:C1:1536:G:N2	2.39	0.54
1:C1:1540:G:OP2	1:C1:1541:G:OP2	2.24	0.54
1:C1:1559:A:O2'	1:C1:1560:U:C6	2.60	0.54
1:C1:1600:A:H2'	1:C1:1602:C:H41	1.72	0.54
1:C1:1644:C:C6	1:C1:1644:C:OP2	2.60	0.54
4:CC:94:ARG:O	4:CC:95:GLY:C	2.50	0.54
6:CE:42:ILE:O	6:CE:45:ILE:CB	2.54	0.54
9:CH:64:ALA:HA	9:CH:68:ALA:HB3	1.89	0.54
28:Ch:13:UNK:C	28:Ch:15:UNK:N	2.66	0.54
29:D1:350:C:N3	29:D1:367:A:H2'	2.23	0.54
29:D1:359:U:O2	29:D1:920:A:N6	2.40	0.54
29:D1:382:U:H3'	29:D1:383:G:H4'	1.89	0.54
29:D1:779:G:C8	29:D1:779:G:C3'	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1018:G:C4	29:D1:1019:G:N7	2.75	0.54
29:D1:1224:C:O5'	29:D1:1224:C:C6	2.58	0.54
29:D1:1352:A:C8	29:D1:1353:U:O4'	2.61	0.54
29:D1:1360:C:O2	29:D1:1360:C:C2'	2.54	0.54
29:D1:1513:G:N1	29:D1:1515:A:H1'	2.22	0.54
29:D1:1604:G:C6	29:D1:1605:A:C5	2.95	0.54
29:D1:1723:A:C5'	29:D1:1724:U:OP2	2.55	0.54
29:D1:2119:A:C5	29:D1:2120:A:H2	2.26	0.54
29:D1:2233:A:OP2	74:D1:3473:OHX:N1	2.41	0.54
29:D1:2235:C:C4	29:D1:2236:G:C6	2.95	0.54
29:D1:2686:A:O5'	29:D1:2686:A:H8	1.90	0.54
29:D1:2773:C:O2'	29:D1:2774:C:H5'	2.06	0.54
29:D1:2876:C:C2'	29:D1:2877:G:H5'	2.37	0.54
29:D1:2980:U:H2'	29:D1:2981:U:H5'	1.89	0.54
29:D1:3049:A:N3	34:DC:75:ALA:CB	2.70	0.54
29:D1:3102:G:HO2'	29:D1:3103:A:P	2.30	0.54
29:D1:3172:A:C1'	29:D1:3173:G:C8	2.83	0.54
29:D1:3299:A:O5'	29:D1:3299:A:H2'	2.07	0.54
29:D1:3333:G:N2	29:D1:3371:G:H8	2.02	0.54
29:D1:3333:G:H22	29:D1:3370:A:C3'	2.20	0.54
30:D2:14:U:C2'	30:D2:15:C:O4'	2.56	0.54
30:D2:46:A:H2'	30:D2:47:C:C6	2.42	0.54
30:D2:64:A:C1'	30:D2:65:G:C5'	2.84	0.54
36:DE:118:THR:C	36:DE:120:LYS:N	2.65	0.54
45:DP:58:LEU:O	45:DP:59:ARG:CB	2.56	0.54
53:DX:59:VAL:H	53:DX:104:LEU:HA	1.71	0.54
58:Dc:52:ALA:O	58:Dc:53:CYS:C	2.51	0.54
1:A1:39:A:C4	1:A1:467:G:N2	2.75	0.54
1:A1:40:A:H2'	1:A1:41:A:O4'	2.06	0.54
1:A1:47:A:O5'	1:A1:48:G:H5"	2.07	0.54
1:A1:201:G:O2'	1:A1:202:A:H5'	2.07	0.54
1:A1:239:C:H1'	1:A1:240:U:C5	2.42	0.54
1:A1:256:A:H5"	1:A1:257:A:OP2	2.07	0.54
1:A1:374:U:N3	1:A1:375:U:C5	2.75	0.54
1:A1:477:A:C5	1:A1:539:G:O6	2.60	0.54
1:A1:575:C:N4	1:A1:576:G:C6	2.76	0.54
1:A1:790:U:O2	1:A1:790:U:H2'	2.08	0.54
1:A1:1005:A:N7	1:A1:1006:C:C5	2.75	0.54
1:A1:1359:C:H3'	1:A1:1360:A:C8	2.43	0.54
1:A1:1456:C:C5'	1:A1:1457:C:H5"	2.36	0.54
1:A1:1497:U:O4	1:A1:1511:U:C2	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1571:C:H3'	1:A1:1572:G:C5'	2.38	0.54
1:A1:1583:A:HO2'	1:A1:1584:G:H5'	1.71	0.54
1:A1:1653:C:C4	1:A1:1654:G:C6	2.95	0.54
1:A1:1722:A:H5'	1:A1:1723:U:H5	1.71	0.54
1:A1:1760:G:C5	1:A1:1761:U:C5	2.91	0.54
1:A1:1760:G:C6	1:A1:1761:U:C5	2.96	0.54
3:AB:89:GLN:HA	3:AB:94:GLN:HA	1.88	0.54
3:AB:152:HIS:C	3:AB:154:LEU:H	2.15	0.54
11:AJ:14:LYS:O	11:AJ:15:SER:CB	2.55	0.54
13:AL:46:VAL:C	13:AL:48:LYS:H	2.14	0.54
29:B1:197:G:H2'	29:B1:198:A:H8	1.72	0.54
29:B1:288:C:H2'	29:B1:289:A:H8	1.68	0.54
29:B1:342:A:C4'	29:B1:344:A:N7	2.64	0.54
29:B1:400:G:H5"	29:B1:403:C:H1'	1.90	0.54
29:B1:412:G:C4	31:B3:12:A:C2	2.95	0.54
29:B1:583:G:C6	29:B1:584:G:C5	2.94	0.54
29:B1:592:A:C2'	29:B1:593:C:C1'	2.80	0.54
29:B1:641:C:H5"	74:B1:3492:OHX:N1	2.22	0.54
29:B1:945:C:C1'	29:B1:1407:A:H1'	2.36	0.54
29:B1:1008:U:C2	29:B1:1043:C:C2	2.94	0.54
29:B1:1033:U:H2'	29:B1:1034:U:O2	2.07	0.54
29:B1:1036:A:H2'	29:B1:1037:C:C6	2.42	0.54
29:B1:1051:U:C5'	29:B1:1052:U:OP2	2.55	0.54
29:B1:1158:A:H3'	29:B1:1159:A:H5"	1.89	0.54
29:B1:1207:G:H5'	29:B1:1207:G:H8	1.72	0.54
29:B1:1231:A:N6	29:B1:1276:U:H5	1.99	0.54
29:B1:1393:A:N3	29:B1:1393:A:H2'	2.22	0.54
29:B1:1445:U:C4	29:B1:1446:A:C5	2.96	0.54
29:B1:1448:U:C5	29:B1:2355:G:N3	2.75	0.54
29:B1:1456:A:C2	29:B1:1476:G:N3	2.74	0.54
29:B1:1658:G:C6	29:B1:1659:U:C4	2.95	0.54
29:B1:1689:U:C2	29:B1:1690:C:C6	2.96	0.54
29:B1:1845:G:C2'	29:B1:1846:C:OP1	2.56	0.54
29:B1:1909:A:O2'	29:B1:1910:A:H5'	2.07	0.54
29:B1:2255:A:N1	74:B1:3438:OHX:N2	2.56	0.54
29:B1:2275:A:H3'	29:B1:2276:G:O4'	2.06	0.54
29:B1:2290:C:C2	29:B1:2291:A:C8	2.95	0.54
29:B1:2422:C:C2'	29:B1:2423:U:O5'	2.54	0.54
29:B1:2622:C:H2'	29:B1:2623:G:O4'	2.07	0.54
29:B1:2727:A:P	49:BT:81:GLY:O	2.66	0.54
29:B1:2762:A:H3'	29:B1:2763:U:H5	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2861:U:C2	29:B1:2862:U:C6	2.96	0.54
29:B1:2904:U:H3'	29:B1:2904:U:C2	2.41	0.54
29:B1:3074:G:H2'	29:B1:3075:G:H8	1.72	0.54
29:B1:3168:A:O2'	29:B1:3169:U:O4'	2.24	0.54
29:B1:3170:A:N6	29:B1:3279:A:N6	2.56	0.54
29:B1:3342:A:H2'	29:B1:3343:G:N3	2.22	0.54
30:B2:104:A:C5	30:B2:105:C:C5	2.96	0.54
32:BA:155:ILE:HA	32:BA:156:LYS:C	2.32	0.54
36:BE:125:VAL:O	36:BE:246:ALA:HB2	2.06	0.54
39:BH:178:ALA:O	39:BH:180:VAL:N	2.40	0.54
41:BJ:35:ASP:O	41:BJ:36:LEU:C	2.50	0.54
44:BO:20:ARG:O	44:BO:22:LEU:N	2.40	0.54
49:BT:35:LYS:C	49:BT:37:GLY:H	2.14	0.54
54:BY:68:PHE:O	54:BY:69:TRP:CB	2.55	0.54
55:BZ:10:ILE:C	55:BZ:12:GLN:H	2.15	0.54
56:Ba:16:LEU:O	56:Ba:18:LYS:N	2.41	0.54
1:C1:10:G:C6	1:C1:11:A:C5	2.95	0.54
1:C1:61:A:C4'	1:C1:62:A:H3'	2.38	0.54
1:C1:148:A:C8	1:C1:149:C:C5	2.95	0.54
1:C1:177:U:H3'	1:C1:178:U:C5'	2.34	0.54
1:C1:280:U:H5'	1:C1:281:G:OP2	2.08	0.54
1:C1:427:C:C6	1:C1:427:C:H5'	2.39	0.54
1:C1:445:A:N3	1:C1:446:A:C8	2.76	0.54
1:C1:521:A:H3'	1:C1:523:G:C8	2.42	0.54
1:C1:559:C:H2'	1:C1:560:U:C6	2.43	0.54
1:C1:607:G:N7	1:C1:613:G:C5	2.76	0.54
1:C1:659:C:H4'	1:C1:660:G:O5'	2.08	0.54
1:C1:737:A:H2'	1:C1:738:G:C8	2.42	0.54
1:C1:774:A:C2	1:C1:775:G:N9	2.76	0.54
1:C1:814:A:C5	1:C1:816:G:C2	2.96	0.54
1:C1:863:A:H2'	1:C1:865:A:H8	1.72	0.54
1:C1:986:G:O2'	1:C1:987:G:H2'	2.07	0.54
1:C1:989:U:C4	1:C1:990:C:C4	2.95	0.54
1:C1:1124:A:C6	1:C1:1125:A:N1	2.76	0.54
1:C1:1124:A:C2'	1:C1:1125:A:H5'	2.37	0.54
1:C1:1138:A:N1	1:C1:1139:A:C5	2.75	0.54
1:C1:1365:C:C4	1:C1:1366:U:C6	2.96	0.54
1:C1:1383:G:H2'	1:C1:1384:A:O5'	2.07	0.54
1:C1:1458:G:H3'	1:C1:1459:C:C5	2.42	0.54
1:C1:1517:U:O2	15:CN:16:GLN:C	2.51	0.54
1:C1:1569:A:N3	1:C1:1570:A:C8	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1575:G:C2	1:C1:1576:A:C4	2.95	0.54
1:C1:1682:U:C2	1:C1:1683:C:N4	2.76	0.54
1:C1:1760:G:C2	1:C1:1761:U:C5	2.95	0.54
8:CG:137:PRO:O	8:CG:141:TYR:N	2.40	0.54
21:CT:84:SER:C	21:CT:86:ASP:H	2.14	0.54
23:Cb:5:UNK:O	23:Cb:6:UNK:CB	2.55	0.54
29:D1:9:U:C4	29:D1:10:C:H5	2.26	0.54
29:D1:22:G:H2'	29:D1:23:A:H8	1.72	0.54
29:D1:198:A:O4'	29:D1:218:G:C2	2.61	0.54
29:D1:339:C:H2'	29:D1:340:C:C5'	2.37	0.54
29:D1:349:A:C2	31:D3:24:G:C8	2.95	0.54
29:D1:562:C:C2'	29:D1:563:U:H6	2.09	0.54
29:D1:569:A:C6	29:D1:570:A:N7	2.76	0.54
29:D1:726:G:H2'	29:D1:727:G:O4'	2.08	0.54
29:D1:880:G:H2'	29:D1:882:A:OP2	2.07	0.54
29:D1:954:U:H4'	29:D1:954:U:OP1	2.06	0.54
29:D1:1139:G:C6	29:D1:1140:G:N7	2.76	0.54
29:D1:1224:C:OP1	29:D1:1224:C:O4'	2.26	0.54
29:D1:1697:A:H2'	29:D1:1698:C:C5'	2.28	0.54
29:D1:1783:U:H2'	29:D1:1784:G:C8	2.43	0.54
29:D1:2133:U:H2'	29:D1:2134:G:O4'	2.07	0.54
29:D1:2140:U:O2'	29:D1:2978:U:H5'	2.07	0.54
29:D1:2299:A:H8	29:D1:2299:A:C5'	2.20	0.54
29:D1:2376:G:O6	29:D1:2377:G:O6	2.25	0.54
29:D1:2520:A:H5"	29:D1:2521:U:OP1	2.07	0.54
29:D1:2576:G:C6	29:D1:2577:C:C4	2.95	0.54
29:D1:2617:U:C5	29:D1:2620:G:OP1	2.61	0.54
29:D1:2639:G:C6	29:D1:2640:A:C5	2.96	0.54
29:D1:2797:C:C3'	29:D1:2798:C:H5'	2.30	0.54
29:D1:2861:U:C2	29:D1:2862:U:C6	2.96	0.54
29:D1:3006:A:C8	29:D1:3007:U:C2	2.95	0.54
29:D1:3184:A:H5"	29:D1:3184:A:C8	2.33	0.54
29:D1:3235:C:N4	29:D1:3236:U:C4	2.76	0.54
29:D1:3277:U:C6	29:D1:3277:U:C3'	2.90	0.54
29:D1:3330:A:C2'	29:D1:3331:U:O5'	2.56	0.54
29:D1:3373:U:N3	29:D1:3374:U:C5	2.75	0.54
31:D3:81:U:C6	31:D3:82:U:H5"	2.43	0.54
31:D3:138:A:H2'	31:D3:138:A:N3	2.21	0.54
31:D3:141:C:H2'	31:D3:142:C:C6	2.37	0.54
34:DC:128:LYS:CB	34:DC:129:ALA:HA	2.38	0.54
50:DU:121:GLU:C	50:DU:123:ALA:N	2.59	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DX:78:PHE:O	53:DX:79:ALA:HB2	2.06	0.54
59:Dd:19:CYS:CB	74:Dd:101:OHX:N1	2.71	0.54
1:A1:47:A:N1	1:A1:100:A:C5	2.76	0.54
1:A1:295:A:H4'	1:A1:296:U:OP1	2.06	0.54
1:A1:379:U:N3	1:A1:380:U:H5	2.06	0.54
1:A1:545:A:C5	1:A1:594:A:N7	2.75	0.54
1:A1:551:G:N3	1:A1:552:G:C8	2.75	0.54
1:A1:571:G:H2'	1:A1:571:G:N3	2.21	0.54
1:A1:588:U:H2'	1:A1:589:C:C6	2.41	0.54
1:A1:636:A:N1	1:A1:860:U:O4	2.40	0.54
1:A1:653:C:C2	1:A1:662:U:H1'	2.43	0.54
1:A1:700:C:H2'	1:A1:700:C:O2	2.08	0.54
1:A1:871:G:O6	1:A1:957:G:O6	2.26	0.54
1:A1:891:A:C6	1:A1:922:G:C6	2.95	0.54
1:A1:959:U:H4'	1:A1:960:U:OP2	2.05	0.54
1:A1:1138:A:C2	1:A1:1139:A:C8	2.95	0.54
1:A1:1250:U:C2	1:A1:1251:U:N3	2.76	0.54
1:A1:1283:U:H5"	1:A1:1284:C:H2'	1.89	0.54
1:A1:1327:C:O3'	4:AC:158:ILE:CB	2.56	0.54
1:A1:1355:C:O2'	1:A1:1356:U:H5'	2.07	0.54
1:A1:1383:G:C2'	1:A1:1384:A:O5'	2.56	0.54
1:A1:1419:G:H2'	1:A1:1420:C:O5'	2.07	0.54
1:A1:1566:U:H2'	1:A1:1567:U:C5'	2.38	0.54
1:A1:1613:U:N3	1:A1:1614:A:H8	2.02	0.54
2:AA:67:ILE:O	2:AA:69:ASN:N	2.40	0.54
13:AL:96:LYS:CB	13:AL:97:ASP:CA	2.84	0.54
20:AS:47:ALA:O	20:AS:48:ASN:CB	2.55	0.54
23:Ab:25:UNK:O	23:Ab:27:UNK:N	2.40	0.54
23:Ab:107:UNK:O	23:Ab:108:UNK:C	2.55	0.54
29:B1:339:C:N4	29:B1:340:C:H41	2.06	0.54
29:B1:523:A:C4	29:B1:524:U:C6	2.95	0.54
29:B1:642:U:C5	29:B1:644:G:P	3.01	0.54
29:B1:848:A:C2	29:B1:849:C:H1'	2.43	0.54
29:B1:951:A:N3	29:B1:1369:A:C2	2.76	0.54
29:B1:992:A:C3'	29:B1:993:G:H5"	2.38	0.54
29:B1:1062:A:O2'	29:B1:1063:G:P	2.65	0.54
29:B1:1291:A:H2'	29:B1:1292:C:O5'	2.06	0.54
29:B1:1440:G:C4	29:B1:1441:G:C8	2.96	0.54
29:B1:1557:A:C4	29:B1:1558:A:H1'	2.43	0.54
29:B1:1716:U:O2	29:B1:1716:U:C2'	2.54	0.54
29:B1:1724:U:HO2'	29:B1:1725:C:C4'	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1760:A:C6	29:B1:1766:G:C6	2.96	0.54
29:B1:1852:G:H5"	29:B1:1853:U:OP2	2.08	0.54
29:B1:1943:C:H4'	29:B1:3344:A:H5'	1.89	0.54
29:B1:2173:U:C2'	29:B1:2174:G:C8	2.86	0.54
29:B1:2261:G:N2	29:B1:2263:C:N3	2.56	0.54
29:B1:2295:A:H62	29:B1:2296:A:N6	2.05	0.54
29:B1:2370:G:C4	29:B1:2371:G:N7	2.75	0.54
29:B1:2656:A:C8	29:B1:2658:G:C8	2.96	0.54
29:B1:2862:U:C2'	29:B1:2863:G:H5'	2.36	0.54
29:B1:3172:A:C1'	29:B1:3173:G:N7	2.64	0.54
29:B1:3210:A:C2'	29:B1:3211:C:C6	2.90	0.54
29:B1:3277:U:H3'	29:B1:3277:U:H6	1.73	0.54
29:B1:3351:U:OP2	29:B1:3351:U:C2	2.61	0.54
31:B3:12:A:C5	31:B3:13:A:C8	2.96	0.54
31:B3:17:A:C4	31:B3:18:U:C6	2.95	0.54
31:B3:70:G:H5'	31:B3:71:A:H8	1.69	0.54
34:BC:272:TYR:O	34:BC:273:HIS:C	2.50	0.54
36:BE:184:ASP:O	36:BE:185:PHE:CB	2.55	0.54
46:BQ:52:LEU:O	46:BQ:53:ASP:C	2.51	0.54
57:Bb:34:LYS:O	57:Bb:35:GLN:C	2.51	0.54
63:Bh:8:UNK:O	63:Bh:12:UNK:N	2.40	0.54
67:Bm:8:UNK:C	67:Bm:10:UNK:N	2.69	0.54
1:C1:10:G:H5'	1:C1:1633:A:C3'	2.34	0.54
1:C1:43:A:H4'	1:C1:99:C:OP1	2.08	0.54
1:C1:50:C:C4	1:C1:424:C:C6	2.96	0.54
1:C1:57:G:C4	1:C1:91:G:N2	2.76	0.54
1:C1:90:C:O2'	1:C1:451:A:H5'	2.08	0.54
1:C1:328:A:C6	1:C1:341:A:C6	2.96	0.54
1:C1:354:C:C2'	1:C1:355:G:H5'	2.38	0.54
1:C1:551:G:H2'	1:C1:551:G:N3	2.22	0.54
1:C1:555:A:OP2	1:C1:555:A:C3'	2.52	0.54
1:C1:757:A:C2	1:C1:758:U:C6	2.96	0.54
1:C1:838:G:C6	1:C1:839:U:C4	2.96	0.54
1:C1:1149:G:N2	1:C1:1151:A:C6	2.76	0.54
1:C1:1199:G:N1	1:C1:1201:G:OP1	2.40	0.54
1:C1:1260:U:OP1	1:C1:1444:A:N1	2.40	0.54
1:C1:1348:A:O5'	1:C1:1348:A:C8	2.47	0.54
1:C1:1543:A:C2	1:C1:1544:U:H1'	2.43	0.54
1:C1:1761:U:C2'	1:C1:1762:A:OP2	2.56	0.54
1:C1:1786:G:H2'	1:C1:1787:C:C5	2.43	0.54
6:CE:82:ARG:C	6:CE:84:GLY:N	2.53	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CN:101:LYS:O	15:CN:103:ILE:N	2.40	0.54
28:Ch:23:UNK:O	28:Ch:25:UNK:N	2.41	0.54
29:D1:37:U:C2	29:D1:38:U:C5	2.96	0.54
29:D1:60:A:N7	29:D1:61:A:C8	2.75	0.54
29:D1:206:G:C5	29:D1:207:U:C5	2.94	0.54
29:D1:323:A:N7	29:D1:324:A:N7	2.55	0.54
29:D1:325:A:C3'	29:D1:327:A:OP1	2.51	0.54
29:D1:360:G:C5	29:D1:361:A:N6	2.71	0.54
29:D1:421:G:N2	29:D1:2365:C:C2	2.75	0.54
29:D1:543:C:H2'	29:D1:544:C:H5'	1.89	0.54
29:D1:543:C:H3'	29:D1:544:C:H5'	1.90	0.54
29:D1:743:C:C5	29:D1:744:A:C8	2.96	0.54
29:D1:776:U:H3'	29:D1:777:U:H5"	1.88	0.54
29:D1:808:A:C5	29:D1:809:G:N7	2.76	0.54
29:D1:958:C:H4'	29:D1:2799:A:O2'	2.06	0.54
29:D1:1211:U:N3	29:D1:1295:G:C6	2.76	0.54
29:D1:1302:A:C4	29:D1:2887:A:C6	2.95	0.54
29:D1:1379:G:H5"	29:D1:1380:G:OP2	2.07	0.54
29:D1:1412:G:H2'	29:D1:1413:G:H8	1.72	0.54
29:D1:1627:U:C5	29:D1:1628:C:C4	2.91	0.54
29:D1:1638:A:N1	29:D1:1736:G:H2'	2.23	0.54
29:D1:1728:G:O2'	55:DZ:86:ARG:C	2.50	0.54
29:D1:1747:G:C5	29:D1:1748:G:C8	2.96	0.54
29:D1:1908:A:H2'	29:D1:1909:A:O4'	2.08	0.54
29:D1:1946:A:H3'	29:D1:1947:G:H8	1.71	0.54
29:D1:2341:A:H2'	29:D1:2342:U:H6	1.72	0.54
29:D1:2430:A:O2'	29:D1:2431:C:H5'	2.07	0.54
29:D1:2556:C:C4	29:D1:2557:A:C2	2.95	0.54
29:D1:2595:A:C8	29:D1:2596:U:C5	2.95	0.54
29:D1:2988:C:O2	29:D1:2988:C:H2'	2.06	0.54
29:D1:3086:A:C5	29:D1:3087:A:C5	2.95	0.54
29:D1:3099:C:N4	29:D1:3135:U:H3	2.06	0.54
29:D1:3133:C:H2'	29:D1:3134:A:O5'	2.08	0.54
29:D1:3153:U:O5'	29:D1:3153:U:H6	1.90	0.54
29:D1:3175:U:OP1	29:D1:3278:C:H1'	2.07	0.54
29:D1:3189:G:C2	29:D1:3190:C:C6	2.95	0.54
29:D1:3197:G:OP2	29:D1:3198:U:C5	2.61	0.54
29:D1:3238:G:O6	29:D1:3250:U:C4	2.60	0.54
31:D3:61:A:H2'	31:D3:62:C:OP2	2.07	0.54
31:D3:65:A:O2'	31:D3:66:A:H5'	2.07	0.54
34:DC:106:TRP:O	34:DC:107:ALA:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:191:LYS:O	34:DC:192:VAL:C	2.48	0.54
38:DG:148:VAL:O	38:DG:152:GLY:HA3	2.07	0.54
73:DM:33:VAL:O	73:DM:34:SER:C	2.50	0.54
45:DP:139:GLY:O	45:DP:142:SER:N	2.39	0.54
55:DZ:76:GLU:C	55:DZ:78:GLY:H	2.14	0.54
57:Db:44:ARG:O	57:Db:45:ARG:CB	2.56	0.54
57:Db:49:ASN:O	57:Db:50:ILE:O	2.25	0.54
1:A1:361:C:N4	1:A1:384:G:C6	2.72	0.54
1:A1:451:A:C2	1:A1:454:U:O4	2.60	0.54
1:A1:478:A:N1	1:A1:479:C:C4	2.75	0.54
1:A1:827:C:C2'	1:A1:828:U:C2	2.79	0.54
1:A1:1249:U:H2'	1:A1:1250:U:H5'	1.89	0.54
1:A1:1429:G:C5	1:A1:1430:U:C5	2.95	0.54
1:A1:1485:C:H42	1:A1:1592:A:H4'	1.73	0.54
1:A1:1631:A:C5'	1:A1:1764:C:H1'	2.38	0.54
4:AC:47:GLU:HA	4:AC:85:VAL:O	2.08	0.54
8:AG:129:TYR:C	8:AG:132:VAL:H	2.13	0.54
16:AO:37:PHE:C	16:AO:39:GLN:N	2.62	0.54
29:B1:29:C:C6	29:B1:29:C:C3'	2.90	0.54
29:B1:185:C:H2'	29:B1:186:U:H6	1.72	0.54
29:B1:337:G:C6	29:B1:339:C:N4	2.76	0.54
29:B1:521:A:C8	29:B1:571:U:O4	2.61	0.54
29:B1:595:G:C2	29:B1:596:C:C5	2.95	0.54
29:B1:656:A:H3'	29:B1:657:A:H8	1.73	0.54
29:B1:813:G:N7	74:B1:3506:OHX:N5	2.55	0.54
29:B1:889:U:H2'	29:B1:890:C:O4'	2.07	0.54
29:B1:987:U:H2'	29:B1:988:U:C5	2.42	0.54
29:B1:1113:G:C6	29:B1:1114:U:N3	2.75	0.54
29:B1:1117:G:H2'	29:B1:1118:C:C6	2.43	0.54
29:B1:1182:A:N3	29:B1:1182:A:H2'	2.22	0.54
29:B1:1209:G:N7	29:B1:1210:U:C4	2.75	0.54
29:B1:1731:A:C6	29:B1:1732:U:N3	2.76	0.54
29:B1:1798:A:C2	29:B1:1799:A:C5	2.96	0.54
29:B1:2221:G:N2	29:B1:2225:U:C2	2.75	0.54
29:B1:2265:C:N4	29:B1:2266:U:C4	2.75	0.54
29:B1:2375:G:C5	29:B1:2378:C:C5	2.96	0.54
29:B1:2522:G:H1'	29:B1:2523:A:OP2	2.07	0.54
29:B1:2609:A:C4	29:B1:2610:G:N7	2.76	0.54
29:B1:2682:C:N4	29:B1:2683:U:O4	2.40	0.54
29:B1:2921:U:H3'	29:B1:2923:U:OP2	2.08	0.54
29:B1:2937:G:C2'	29:B1:2938:G:H5'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3037:U:O2'	29:B1:3038:U:C5'	2.53	0.54
29:B1:3082:C:O2'	29:B1:3083:G:H5'	2.08	0.54
29:B1:3144:G:N7	74:B1:3428:OHX:N2	2.55	0.54
29:B1:3197:G:OP2	29:B1:3198:U:C5	2.60	0.54
29:B1:3262:U:H6	29:B1:3262:U:P	2.31	0.54
29:B1:3334:U:O2	29:B1:3335:A:C4	2.61	0.54
30:B2:13:A:N3	30:B2:13:A:O4'	2.35	0.54
31:B3:29:U:C2	31:B3:30:C:H5	2.25	0.54
35:BD:84:ARG:C	35:BD:86:GLY:H	2.14	0.54
36:BE:227:LEU:HA	36:BE:229:ASP:N	2.22	0.54
40:BI:73:SER:O	40:BI:74:LEU:C	2.50	0.54
46:BQ:104:ALA:O	46:BQ:106:GLY:N	2.40	0.54
48:BS:66:HIS:C	48:BS:68:GLN:N	2.66	0.54
55:BZ:83:LYS:O	55:BZ:84:LEU:CB	2.55	0.54
59:Bd:65:ARG:C	59:Bd:67:LEU:N	2.66	0.54
1:C1:169:A:N7	1:C1:171:A:C6	2.74	0.54
1:C1:198:A:C2	1:C1:199:G:N3	2.76	0.54
1:C1:218:A:N1	1:C1:843:U:O2'	2.41	0.54
1:C1:449:C:H2'	1:C1:449:C:O2	2.08	0.54
1:C1:640:U:H3'	1:C1:641:G:C8	2.42	0.54
1:C1:1105:C:H2'	1:C1:1106:U:C6	2.43	0.54
1:C1:1119:G:C4	1:C1:1120:U:C5	2.96	0.54
1:C1:1149:G:N2	1:C1:1150:G:N7	2.56	0.54
1:C1:1172:G:C5	1:C1:1173:C:C4	2.96	0.54
1:C1:1232:U:O2	1:C1:1233:G:C8	2.60	0.54
1:C1:1323:C:H2'	1:C1:1324:G:H1'	1.88	0.54
1:C1:1348:A:C2	1:C1:1379:C:C6	2.95	0.54
1:C1:1374:C:C3'	1:C1:1375:A:C8	2.89	0.54
1:C1:1377:U:O2	1:C1:1378:U:C1'	2.56	0.54
1:C1:1404:C:H2'	1:C1:1405:G:H8	1.71	0.54
1:C1:1489:U:C5	1:C1:1513:G:N1	2.72	0.54
1:C1:1550:A:H2'	1:C1:1551:U:H6	1.73	0.54
1:C1:1576:A:H2'	1:C1:1577:A:O4'	2.08	0.54
1:C1:1654:G:C6	1:C1:1745:G:C6	2.96	0.54
1:C1:1671:A:N9	1:C1:1731:A:N1	2.55	0.54
1:C1:1758:U:C4	1:C1:1759:C:N4	2.76	0.54
1:C1:1772:C:H2'	1:C1:1772:C:O2	2.07	0.54
3:CB:118:ALA:CB	3:CB:124:ALA:HB2	2.37	0.54
4:CC:74:GLN:O	4:CC:75:LYS:C	2.50	0.54
5:CD:117:THR:HA	5:CD:191:ALA:HB1	1.90	0.54
11:CJ:108:ALA:C	11:CJ:110:THR:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CL:16:ARG:HA	13:CL:22:VAL:HA	1.89	0.54
17:CP:95:PHE:O	17:CP:96:VAL:C	2.51	0.54
18:CQ:80:LEU:C	18:CQ:82:HIS:H	2.16	0.54
28:Ch:13:UNK:O	28:Ch:16:UNK:N	2.40	0.54
29:D1:62:A:C6	29:D1:63:A:C5	2.96	0.54
29:D1:76:G:H8	29:D1:76:G:OP2	1.90	0.54
29:D1:77:A:C2	29:D1:78:U:C1'	2.91	0.54
29:D1:186:U:O2	29:D1:186:U:C2'	2.55	0.54
29:D1:258:G:C8	29:D1:258:G:OP2	2.60	0.54
29:D1:282:G:P	29:D1:282:G:C3'	2.95	0.54
29:D1:311:C:O2	29:D1:2779:A:C2	2.60	0.54
29:D1:362:U:C2	29:D1:363:G:C8	2.96	0.54
29:D1:381:U:H1'	29:D1:388:G:N2	2.23	0.54
29:D1:722:G:O2'	29:D1:723:U:OP2	2.23	0.54
29:D1:776:U:C3'	29:D1:777:U:H5"	2.37	0.54
29:D1:858:A:H4'	29:D1:858:A:OP2	2.07	0.54
29:D1:882:A:C2'	29:D1:883:A:H5"	2.36	0.54
29:D1:883:A:C5	29:D1:921:A:C6	2.95	0.54
29:D1:889:U:H2'	29:D1:890:C:O4'	2.07	0.54
29:D1:952:A:H1'	29:D1:1114:U:H1'	1.90	0.54
29:D1:1001:G:H8	29:D1:1041:U:O3'	1.90	0.54
29:D1:1159:A:O2'	29:D1:1160:C:OP2	2.19	0.54
29:D1:1440:G:N3	29:D1:1441:G:C8	2.75	0.54
29:D1:1455:U:OP1	29:D1:3078:U:N3	2.40	0.54
29:D1:1697:A:C8	29:D1:1698:C:C5	2.96	0.54
29:D1:1844:C:N3	29:D1:1845:G:C8	2.76	0.54
29:D1:1875:G:C6	29:D1:1876:U:C5	2.96	0.54
29:D1:2439:A:N6	29:D1:2440:G:C6	2.75	0.54
29:D1:2896:A:H8	29:D1:2896:A:H5'	1.73	0.54
29:D1:2968:G:C2'	29:D1:2969:A:O5'	2.56	0.54
29:D1:3010:U:O2'	29:D1:3011:A:C5'	2.55	0.54
29:D1:3214:U:O2'	29:D1:3218:A:OP2	2.26	0.54
30:D2:75:G:OP2	30:D2:76:A:H3'	2.07	0.54
30:D2:79:A:O2'	30:D2:80:G:H5'	2.08	0.54
44:DO:143:ARG:C	44:DO:146:ALA:HB2	2.33	0.54
47:DR:99:THR:O	47:DR:119:GLY:HA3	2.08	0.54
47:DR:150:VAL:CB	47:DR:151:ARG:CA	2.86	0.54
1:A1:11:A:N1	1:A1:1143:A:N1	2.55	0.54
1:A1:22:A:N6	1:A1:604:A:N6	2.55	0.54
1:A1:157:A:C2'	1:A1:158:U:H5'	2.38	0.54
1:A1:173:A:H3'	1:A1:174:U:C5'	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:417:A:H4'	1:A1:418:G:O4'	2.08	0.54
1:A1:483:A:P	1:A1:483:A:H8	2.30	0.54
1:A1:1164:G:C2	1:A1:1165:G:C4	2.95	0.54
1:A1:1283:U:H5"	1:A1:1284:C:O5'	2.06	0.54
1:A1:1335:U:C2	1:A1:1336:A:N7	2.76	0.54
1:A1:1348:A:H5"	15:AN:11:GLU:CA	2.37	0.54
1:A1:1631:A:H5"	74:A1:1990:OHX:N6	2.22	0.54
1:A1:1632:C:C2	1:A1:1633:A:C8	2.96	0.54
5:AD:136:ALA:C	5:AD:138:THR:H	2.15	0.54
29:B1:25:U:C2	29:B1:26:A:C8	2.95	0.54
29:B1:80:G:O2'	29:B1:81:C:H5'	2.07	0.54
29:B1:107:A:N1	29:B1:108:A:C2	2.76	0.54
29:B1:148:G:H2'	29:B1:148:G:N3	2.22	0.54
29:B1:258:G:N3	29:B1:259:C:C6	2.75	0.54
29:B1:305:U:O2	29:B1:305:U:C2'	2.55	0.54
29:B1:534:U:O2	29:B1:559:A:H2	1.90	0.54
29:B1:577:C:O2	37:BF:149:ILE:O	2.26	0.54
29:B1:597:G:H2'	29:B1:598:A:O4'	2.07	0.54
29:B1:799:G:O6	74:B1:3496:OHX:N5	2.40	0.54
29:B1:865:U:C5	29:B1:866:A:N7	2.76	0.54
29:B1:869:G:H2'	29:B1:870:G:C8	2.42	0.54
29:B1:943:U:N1	29:B1:1432:C:H5	2.05	0.54
29:B1:974:G:C6	29:B1:975:C:N4	2.75	0.54
29:B1:998:A:O2'	29:B1:999:G:H5'	2.07	0.54
29:B1:1035:G:C5	29:B1:1036:A:N7	2.76	0.54
29:B1:1037:C:O2'	29:B1:1038:C:O4'	2.25	0.54
29:B1:1247:U:H5'	29:B1:1248:C:H5	1.73	0.54
29:B1:1393:A:N7	29:B1:1418:A:N7	2.54	0.54
29:B1:1501:U:O2'	29:B1:1502:C:C5'	2.55	0.54
29:B1:1596:C:H2'	29:B1:1597:C:C5	2.42	0.54
29:B1:1626:U:C3'	29:B1:1627:U:O4'	2.54	0.54
29:B1:1791:C:N3	29:B1:1792:C:N4	2.55	0.54
29:B1:1921:A:O2'	29:B1:1922:A:H5'	2.06	0.54
29:B1:2193:U:C5'	29:B1:2312:A:N1	2.71	0.54
29:B1:2247:G:C6	29:B1:2248:C:C4	2.95	0.54
29:B1:2313:A:C4	29:B1:2315:G:N7	2.76	0.54
29:B1:2326:A:C2	29:B1:2327:U:C6	2.96	0.54
29:B1:2617:U:C5	29:B1:2620:G:OP1	2.61	0.54
29:B1:2634:U:O2	29:B1:2645:G:C6	2.60	0.54
29:B1:2649:A:C2	29:B1:2650:U:C6	2.96	0.54
29:B1:2931:C:O2	29:B1:2935:U:C5	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3009:G:H2'	29:B1:3010:U:H5'	1.90	0.54
30:B2:13:A:C2	30:B2:13:A:OP2	2.59	0.54
30:B2:68:C:O2'	30:B2:69:C:C4'	2.55	0.54
35:BD:103:THR:O	35:BD:104:LYS:CB	2.56	0.54
38:BG:47:ARG:O	38:BG:49:ALA:C	2.51	0.54
41:BJ:99:ILE:O	41:BJ:120:GLY:HA2	2.08	0.54
52:BW:94:GLN:O	52:BW:97:LYS:N	2.40	0.54
1:C1:61:A:H4'	1:C1:62:A:C3'	2.38	0.54
1:C1:321:C:H2'	1:C1:322:G:H8	1.72	0.54
1:C1:388:G:C2	1:C1:389:G:C8	2.96	0.54
1:C1:604:A:N1	1:C1:605:A:C2	2.76	0.54
1:C1:752:A:H2'	1:C1:753:A:C8	2.43	0.54
1:C1:863:A:C8	1:C1:865:A:C8	2.95	0.54
1:C1:1056:U:H3'	1:C1:1057:U:C5	2.42	0.54
1:C1:1118:G:N1	1:C1:1119:G:C5	2.76	0.54
1:C1:1274:C:P	1:C1:1428:G:OP1	2.66	0.54
1:C1:1458:G:C2	1:C1:1459:C:N4	2.76	0.54
1:C1:1467:C:H5'	1:C1:1602:C:P	2.48	0.54
1:C1:1477:G:C2'	1:C1:1478:G:C5'	2.85	0.54
1:C1:1784:C:C2	1:C1:1785:U:C6	2.96	0.54
1:C1:1794:A:C6	1:C1:1796:C:N4	2.75	0.54
2:CA:42:PRO:O	2:CA:44:GLY:N	2.40	0.54
3:CB:126:ARG:C	3:CB:128:GLY:N	2.65	0.54
8:CG:81:ALA:O	8:CG:82:PRO:CB	2.56	0.54
11:CJ:89:LEU:O	11:CJ:91:ALA:N	2.40	0.54
16:CO:78:ARG:O	16:CO:79:PHE:CB	2.56	0.54
29:D1:23:A:OP1	59:Dd:43:LYS:HA	2.08	0.54
29:D1:107:A:N1	29:D1:108:A:C2	2.75	0.54
29:D1:200:C:H41	29:D1:217:U:H2'	1.73	0.54
29:D1:258:G:HO2'	29:D1:259:C:C5'	2.21	0.54
29:D1:510:G:C2'	29:D1:511:G:O5'	2.56	0.54
29:D1:548:G:H8	29:D1:548:G:OP2	1.91	0.54
29:D1:584:G:C2	29:D1:585:A:C8	2.95	0.54
29:D1:668:G:H2'	29:D1:669:U:H6	1.72	0.54
29:D1:726:G:C2	29:D1:727:G:O6	2.61	0.54
29:D1:760:G:N2	29:D1:761:A:C8	2.76	0.54
29:D1:825:U:H2'	29:D1:826:G:H5"	1.89	0.54
29:D1:829:U:H3	29:D1:895:A:H62	1.50	0.54
29:D1:907:G:OP1	29:D1:909:G:H1'	2.08	0.54
29:D1:1196:C:O2	30:D2:86:U:C6	2.60	0.54
29:D1:1269:U:C4	29:D1:1271:A:N7	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1514:G:O6	29:D1:1841:A:C8	2.60	0.54
29:D1:1528:G:C5	29:D1:1529:A:N7	2.76	0.54
29:D1:1651:U:C2'	29:D1:1652:G:H5'	2.37	0.54
29:D1:2280:A:HO2'	29:D1:2281:A:H3'	1.73	0.54
29:D1:2285:C:H5	29:D1:2286:U:C4	2.25	0.54
29:D1:2286:U:C4	29:D1:2288:G:C1'	2.89	0.54
29:D1:2326:A:C2	29:D1:2327:U:C6	2.96	0.54
29:D1:2386:A:C8	29:D1:2387:A:C8	2.95	0.54
29:D1:2424:A:OP2	29:D1:2424:A:H8	1.91	0.54
29:D1:2643:A:N6	29:D1:2645:G:H1'	2.22	0.54
29:D1:2674:A:N3	29:D1:2674:A:H2'	2.22	0.54
29:D1:2677:G:C2'	29:D1:2678:A:O5'	2.56	0.54
29:D1:2908:G:H2'	29:D1:2909:U:O5'	2.08	0.54
29:D1:3261:C:C5'	29:D1:3262:U:OP1	2.55	0.54
29:D1:3322:A:O2'	29:D1:3323:A:H5'	2.08	0.54
30:D2:7:G:O6	30:D2:114:U:O4	2.24	0.54
30:D2:51:A:H2'	30:D2:51:A:N3	2.22	0.54
30:D2:95:A:C4	30:D2:96:U:C5	2.96	0.54
31:D3:67:U:C2'	31:D3:68:G:C8	2.90	0.54
31:D3:131:A:C2	31:D3:132:G:C8	2.96	0.54
34:DC:133:TYR:O	34:DC:135:ALA:N	2.41	0.54
34:DC:174:LYS:O	34:DC:175:LYS:CB	2.56	0.54
34:DC:208:VAL:O	34:DC:209:PHE:CB	2.56	0.54
37:DF:9:TRP:O	37:DF:10:TYR:CB	2.55	0.54
38:DG:49:ALA:O	38:DG:50:ALA:C	2.51	0.54
38:DG:203:TRP:O	38:DG:204:PRO:CB	2.56	0.54
40:DI:69:ARG:O	40:DI:70:THR:C	2.50	0.54
72:DL:46:ILE:HA	72:DL:49:ALA:CB	2.38	0.54
43:DN:82:SER:O	43:DN:83:LYS:C	2.49	0.54
46:DQ:11:PRO:O	46:DQ:12:ALA:CB	2.55	0.54
46:DQ:141:SER:O	46:DQ:143:PRO:N	2.41	0.54
61:Df:38:GLN:O	61:Df:39:GLY:C	2.51	0.54
1:A1:129:U:C5	74:A1:1915:OHX:N3	2.76	0.54
1:A1:166:C:C3'	1:A1:167:U:H5"	2.38	0.54
1:A1:542:A:C2	1:A1:544:A:H3'	2.42	0.54
1:A1:720:G:P	1:A1:720:G:H8	2.31	0.54
1:A1:1035:G:N2	1:A1:1101:G:C4	2.76	0.54
1:A1:1046:G:C4	1:A1:1073:G:N2	2.75	0.54
1:A1:1225:U:H2'	1:A1:1226:A:O4'	2.08	0.54
1:A1:1333:C:H2'	1:A1:1334:U:H6	1.70	0.54
1:A1:1564:U:H2'	1:A1:1565:C:H6	1.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1623:C:N3	1:A1:1624:C:C5	2.75	0.54
1:A1:1734:U:C4	1:A1:1735:U:O4	2.61	0.54
2:AA:48:ILE:O	2:AA:50:VAL:N	2.40	0.54
3:AB:132:ALA:O	3:AB:133:LYS:O	2.25	0.54
4:AC:11:LEU:O	4:AC:14:ASP:N	2.40	0.54
8:AG:129:TYR:C	8:AG:131:THR:N	2.61	0.54
11:AJ:40:GLU:O	11:AJ:42:GLU:N	2.39	0.54
26:Ae:10:UNK:O	26:Ae:11:UNK:C	2.54	0.54
29:B1:385:A:N3	29:B1:386:A:C8	2.76	0.54
29:B1:524:U:O4	29:B1:569:A:N1	2.41	0.54
29:B1:535:G:C8	29:B1:536:U:O4	2.61	0.54
29:B1:592:A:C8	29:B1:593:C:O4'	2.61	0.54
29:B1:762:U:H5	74:B1:3479:OHX:N5	2.06	0.54
29:B1:949:C:O2'	29:B1:950:G:H5'	2.08	0.54
29:B1:1272:C:H2'	29:B1:1273:A:O4'	2.07	0.54
29:B1:1326:A:C6	29:B1:1327:C:C4	2.96	0.54
29:B1:1394:A:H2'	29:B1:1395:G:C5'	2.37	0.54
29:B1:1480:G:O2'	29:B1:1871:U:O4	2.21	0.54
29:B1:1496:C:O2	29:B1:1521:G:N2	2.41	0.54
29:B1:1502:C:OP1	74:B1:3413:OHX:N6	2.41	0.54
29:B1:1578:C:N3	29:B1:1579:C:O2	2.41	0.54
29:B1:1780:G:HO2'	29:B1:1781:C:H6	1.55	0.54
29:B1:1787:A:H3'	29:B1:1788:C:H5"	1.88	0.54
29:B1:1795:U:O2'	29:B1:1796:G:OP2	2.26	0.54
29:B1:1853:U:H2'	29:B1:1853:U:O2	2.07	0.54
29:B1:2154:U:O2'	29:B1:2155:G:H5'	2.07	0.54
29:B1:2259:A:H3'	29:B1:2260:U:C5	2.42	0.54
29:B1:2260:U:H4'	29:B1:2261:G:OP2	2.06	0.54
29:B1:2577:C:O2'	29:B1:2578:U:H5'	2.08	0.54
29:B1:2594:C:H2'	29:B1:2595:A:O4'	2.08	0.54
29:B1:2673:A:C2	29:B1:2674:A:N6	2.76	0.54
29:B1:2704:A:C4	29:B1:2706:G:N7	2.76	0.54
29:B1:2853:A:N6	29:B1:2854:U:N3	2.56	0.54
29:B1:2883:U:O5'	29:B1:2883:U:H6	1.90	0.54
29:B1:3012:A:C5	29:B1:3013:U:C5	2.96	0.54
29:B1:3203:U:H2'	29:B1:3204:C:N1	2.23	0.54
29:B1:3238:G:C6	29:B1:3250:U:C4	2.95	0.54
29:B1:3325:G:C4	29:B1:3326:G:C8	2.96	0.54
29:B1:3386:G:O2'	29:B1:3387:U:O5'	2.26	0.54
30:B2:35:C:H2'	30:B2:36:C:O4'	2.08	0.54
30:B2:85:G:N7	74:B2:204:OHX:N4	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:105:C:H2'	30:B2:106:U:C5'	2.37	0.54
31:B3:71:A:N6	31:B3:87:G:C5	2.76	0.54
31:B3:142:C:O2	31:B3:142:C:C2'	2.56	0.54
34:BC:62:ARG:C	34:BC:64:GLY:H	2.15	0.54
36:BE:236:LEU:O	36:BE:237:GLU:C	2.51	0.54
41:BJ:17:TYR:C	41:BJ:19:LYS:N	2.63	0.54
43:BN:73:PRO:O	43:BN:74:ARG:C	2.51	0.54
45:BP:106:GLU:C	45:BP:107:GLY:O	2.48	0.54
49:BT:28:SER:C	49:BT:30:TYR:H	2.13	0.54
57:Bb:8:LYS:C	57:Bb:10:VAL:H	2.16	0.54
1:C1:26:A:C2	1:C1:600:U:N3	2.72	0.54
1:C1:127:G:O6	1:C1:179:A:C5	2.57	0.54
1:C1:248:U:O2'	1:C1:249:U:H5'	2.07	0.54
1:C1:313:U:C4	1:C1:1118:G:C5	2.96	0.54
1:C1:693:U:H3'	1:C1:694:U:H5'	1.90	0.54
1:C1:717:C:O2'	1:C1:718:U:O5'	2.22	0.54
1:C1:772:G:C5	1:C1:773:C:C4	2.96	0.54
1:C1:788:A:H5"	1:C1:789:A:O5'	2.08	0.54
1:C1:837:G:C2	1:C1:838:G:C4	2.95	0.54
1:C1:898:A:N6	1:C1:914:G:N2	2.55	0.54
1:C1:1158:C:H42	1:C1:1163:A:N6	2.05	0.54
1:C1:1255:G:O3'	1:C1:1257:U:OP1	2.26	0.54
1:C1:1294:G:O2'	1:C1:1321:A:N1	2.32	0.54
1:C1:1431:C:H3'	1:C1:1432:U:C5'	2.37	0.54
1:C1:1491:U:H3'	1:C1:1492:A:C2'	2.34	0.54
1:C1:1565:C:H2'	1:C1:1565:C:O2	2.08	0.54
1:C1:1611:A:H2'	1:C1:1612:U:O4'	2.08	0.54
1:C1:1662:G:C2	1:C1:1663:G:C5	2.96	0.54
2:CA:79:ARG:O	2:CA:83:GLN:N	2.40	0.54
3:CB:118:ALA:HB2	3:CB:124:ALA:H	1.73	0.54
3:CB:165:VAL:CB	3:CB:166:THR:CB	2.86	0.54
4:CC:98:ALA:O	4:CC:100:ALA:N	2.40	0.54
7:CF:95:PRO:O	7:CF:97:TYR:N	2.41	0.54
8:CG:77:SER:C	8:CG:79:GLY:N	2.66	0.54
11:CJ:48:VAL:C	11:CJ:50:GLU:H	2.15	0.54
13:CL:114:GLU:C	13:CL:116:LEU:N	2.65	0.54
17:CP:61:SER:CB	17:CP:66:SER:HA	2.38	0.54
21:CT:92:TRP:HA	21:CT:100:TYR:H	1.72	0.54
23:Cb:82:UNK:HA	23:Cb:85:UNK:C	2.38	0.54
29:D1:31:C:O2'	29:D1:32:U:H5'	2.08	0.54
29:D1:44:U:OP2	44:DO:83:LYS:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:117:U:C5	29:D1:118:U:H5	2.26	0.54
29:D1:250:U:O2	29:D1:250:U:C2'	2.55	0.54
29:D1:355:A:C2	29:D1:365:A:C5	2.96	0.54
29:D1:382:U:C5	29:D1:383:G:C8	2.96	0.54
29:D1:422:A:H3'	29:D1:2364:G:C5'	2.37	0.54
29:D1:532:A:C2	29:D1:560:G:C2	2.95	0.54
29:D1:576:C:O2'	29:D1:577:C:H5"	2.07	0.54
29:D1:637:C:C6	29:D1:638:C:C5	2.96	0.54
29:D1:666:A:C6	29:D1:667:C:C5	2.96	0.54
29:D1:819:U:H4'	29:D1:2138:A:N1	2.23	0.54
29:D1:933:A:H3'	29:D1:934:G:C5'	2.38	0.54
29:D1:958:C:OP1	29:D1:2799:A:H3'	2.08	0.54
29:D1:963:G:C8	29:D1:963:G:C4'	2.91	0.54
29:D1:986:U:H2'	29:D1:987:U:O5'	2.07	0.54
29:D1:1036:A:H2'	29:D1:1037:C:C6	2.42	0.54
29:D1:1063:G:C5'	29:D1:1098:A:P	2.93	0.54
29:D1:1194:G:O6	29:D1:1314:C:N3	2.40	0.54
29:D1:1199:C:H4'	29:D1:1200:A:OP2	2.08	0.54
29:D1:1244:A:C6	29:D1:1248:C:N3	2.76	0.54
29:D1:1292:C:O2'	29:D1:1293:U:H5'	2.08	0.54
29:D1:1334:U:H5'	38:DG:207:LEU:O	2.07	0.54
29:D1:1358:C:O2	29:D1:1358:C:C2'	2.56	0.54
29:D1:1658:G:C5	29:D1:1659:U:C5	2.96	0.54
29:D1:1660:C:O2'	29:D1:1661:G:C5'	2.49	0.54
29:D1:1715:A:N7	29:D1:1716:U:C6	2.76	0.54
29:D1:1728:G:N2	29:D1:1730:G:H21	2.04	0.54
29:D1:1753:G:C2	29:D1:1754:G:C8	2.95	0.54
29:D1:2403:G:C4'	29:D1:2404:A:OP1	2.55	0.54
29:D1:2468:A:H4'	29:D1:2469:G:O5'	2.07	0.54
29:D1:2554:A:H2	33:DB:85:GLY:C	2.15	0.54
29:D1:2582:C:H3'	29:D1:2583:C:H6	1.73	0.54
29:D1:2612:U:H2'	29:D1:2613:U:O2	2.08	0.54
29:D1:2639:G:H5"	29:D1:2640:A:OP2	2.08	0.54
29:D1:2762:A:C4	29:D1:2763:U:C5	2.95	0.54
29:D1:2904:U:H3'	29:D1:2904:U:C2	2.43	0.54
29:D1:3055:U:O2	29:D1:3085:G:C2	2.61	0.54
29:D1:3263:G:N2	29:D1:3264:G:C4	2.76	0.54
29:D1:3343:G:H2'	29:D1:3344:A:C8	2.42	0.54
29:D1:3390:G:C6	29:D1:3391:A:C6	2.96	0.54
30:D2:67:G:N3	30:D2:67:G:H2'	2.23	0.54
30:D2:113:C:H2'	30:D2:114:U:H6	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:19:C:C4	31:D3:20:U:C4	2.96	0.54
34:DC:298:PHE:HA	34:DC:299:ASP:CB	2.37	0.54
38:DG:22:THR:C	38:DG:24:GLU:H	2.15	0.54
38:DG:193:PRO:C	38:DG:195:PHE:N	2.63	0.54
40:DI:69:ARG:C	40:DI:71:VAL:H	2.15	0.54
41:DJ:56:GLU:O	41:DJ:57:LEU:C	2.50	0.54
73:DM:190:VAL:O	73:DM:191:TYR:CB	2.55	0.54
44:DO:146:ALA:C	44:DO:148:TYR:N	2.65	0.54
49:DT:14:MET:C	49:DT:16:GLN:N	2.64	0.54
52:DW:61:LYS:CB	52:DW:62:VAL:HA	2.38	0.54
52:DW:129:ASP:O	52:DW:130:TYR:C	2.51	0.54
54:DY:97:GLU:O	54:DY:98:THR:CB	2.55	0.54
56:Da:80:ASN:C	56:Da:82:GLU:H	2.16	0.54
65:Dk:6:UNK:O	65:Dk:7:UNK:C	2.55	0.54
1:A1:32:U:N3	1:A1:468:A:N6	2.55	0.54
1:A1:47:A:H4'	1:A1:48:G:H5'	1.89	0.54
1:A1:250:C:O2'	1:A1:251:A:H5'	2.08	0.54
1:A1:336:G:H4'	7:AF:132:SER:HA	1.88	0.54
1:A1:446:A:C2'	1:A1:447:U:H5'	2.37	0.54
1:A1:500:C:H2'	1:A1:501:U:H6	1.73	0.54
1:A1:521:A:C4'	1:A1:522:U:OP1	2.54	0.54
1:A1:617:U:O4'	1:A1:1031:U:C2	2.61	0.54
1:A1:820:U:H2'	1:A1:821:U:O5'	2.08	0.54
1:A1:863:A:H2'	1:A1:865:A:H8	1.72	0.54
1:A1:1277:G:O2'	1:A1:1278:G:H5'	2.08	0.54
1:A1:1478:G:C2'	1:A1:1479:A:O4'	2.55	0.54
1:A1:1505:A:N7	1:A1:1506:G:H1'	2.22	0.54
1:A1:1534:G:C4'	1:A1:1536:G:O6	2.56	0.54
1:A1:1554:U:C5	1:A1:1555:A:C8	2.96	0.54
1:A1:1650:U:H2'	1:A1:1651:A:C8	2.43	0.54
1:A1:1723:U:H2'	1:A1:1724:U:O4'	2.08	0.54
1:A1:1790:A:C3'	1:A1:1791:A:H5"	2.38	0.54
3:AB:239:PRO:C	3:AB:241:ASP:N	2.53	0.54
6:AE:130:THR:O	6:AE:131:GLN:C	2.50	0.54
10:AI:81:ARG:HA	10:AI:117:GLY:H	1.73	0.54
12:AK:64:GLY:HA2	12:AK:65:PRO:CB	2.38	0.54
14:AM:17:ALA:C	14:AM:19:ALA:N	2.63	0.54
20:AS:41:GLN:CB	74:AS:101:OHX:N4	2.71	0.54
21:AT:212:ALA:HA	21:AT:222:LEU:HA	1.88	0.54
29:B1:104:G:C6	29:B1:105:C:C5	2.95	0.54
29:B1:284:A:N3	29:B1:306:A:H1'	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:329:U:O2	29:B1:329:U:O4'	2.24	0.54
29:B1:340:C:N4	31:B3:25:G:N1	2.56	0.54
29:B1:359:U:H1'	29:B1:817:A:N1	2.23	0.54
29:B1:762:U:O2	29:B1:770:G:N2	2.41	0.54
29:B1:1130:A:C8	29:B1:1132:C:C5	2.96	0.54
29:B1:1139:G:C4	29:B1:1140:G:C8	2.96	0.54
29:B1:1175:C:C2'	29:B1:1176:C:O5'	2.56	0.54
29:B1:1217:A:C2	29:B1:1289:G:C5	2.96	0.54
29:B1:1377:G:N2	29:B1:1430:U:O2	2.32	0.54
29:B1:1378:U:C2'	29:B1:1378:U:O2	2.56	0.54
29:B1:1414:G:N2	29:B1:1415:U:H1'	2.22	0.54
29:B1:2194:G:C1'	29:B1:2274:U:O2	2.54	0.54
29:B1:2217:U:O2'	29:B1:2218:G:H5'	2.07	0.54
29:B1:2496:C:H2'	29:B1:2497:U:C6	2.43	0.54
29:B1:2515:A:H2'	29:B1:2516:U:C6	2.43	0.54
29:B1:2815:G:H5"	29:B1:2816:G:OP1	2.08	0.54
29:B1:2837:A:C8	29:B1:2845:A:N1	2.75	0.54
29:B1:2904:U:O2	29:B1:2904:U:H2'	2.08	0.54
29:B1:3047:U:N3	29:B1:3048:A:C2	2.76	0.54
29:B1:3069:G:C2	29:B1:3070:A:C5	2.96	0.54
29:B1:3281:U:O2	29:B1:3282:U:C2	2.60	0.54
29:B1:3333:G:H22	29:B1:3370:A:H4'	1.69	0.54
30:B2:25:G:C2	30:B2:26:C:N4	2.75	0.54
31:B3:48:A:N1	31:B3:51:G:C5	2.76	0.54
31:B3:119:C:O2'	31:B3:120:C:H5'	2.08	0.54
33:BB:183:GLY:N	33:BB:185:ALA:H	2.04	0.54
36:BE:216:GLU:C	36:BE:219:PHE:H	2.15	0.54
37:BF:146:ILE:O	37:BF:150:LYS:CB	2.56	0.54
37:BF:162:SER:O	37:BF:165:LEU:N	2.41	0.54
38:BG:199:ASN:C	38:BG:201:PHE:N	2.65	0.54
39:BH:231:LYS:CB	39:BH:233:TRP:H	2.21	0.54
52:BW:50:ALA:O	52:BW:51:VAL:CB	2.54	0.54
53:BX:89:LYS:C	53:BX:91:ASN:N	2.66	0.54
65:Bk:16:UNK:O	65:Bk:17:UNK:C	2.54	0.54
1:C1:83:G:O2'	1:C1:84:A:H5'	2.07	0.54
1:C1:340:U:O3'	1:C1:341:A:O4'	2.25	0.54
1:C1:480:G:H2'	1:C1:481:A:O4'	2.08	0.54
1:C1:575:C:H5'	1:C1:576:G:OP2	2.08	0.54
1:C1:945:U:O2'	1:C1:946:U:H5'	2.07	0.54
1:C1:1728:A:H2'	1:C1:1729:C:C6	2.35	0.54
1:C1:1781:A:N1	1:C1:1782:A:C2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:8:ASP:C	2:CA:10:THR:H	2.16	0.54
2:CA:162:CYS:O	2:CA:163:ASN:CB	2.56	0.54
3:CB:59:HIS:C	3:CB:61:LEU:N	2.61	0.54
10:CI:92:SER:O	10:CI:106:GLU:HA	2.07	0.54
15:CN:71:PRO:O	15:CN:72:ASN:CB	2.56	0.54
16:CO:96:ALA:O	16:CO:98:GLN:N	2.40	0.54
22:Ca:6:UNK:O	22:Ca:7:UNK:C	2.54	0.54
23:Cb:124:UNK:O	23:Cb:125:UNK:CB	2.56	0.54
29:D1:9:U:N3	29:D1:10:C:C6	2.76	0.54
29:D1:29:C:O5'	29:D1:29:C:H6	1.91	0.54
29:D1:510:G:C2	29:D1:511:G:H1'	2.43	0.54
29:D1:580:C:N4	29:D1:581:U:O4	2.41	0.54
29:D1:718:G:H1'	29:D1:719:U:OP2	2.07	0.54
29:D1:790:U:O5'	29:D1:790:U:H6	1.91	0.54
29:D1:888:A:C5	29:D1:889:U:C4	2.96	0.54
29:D1:933:A:H3'	29:D1:934:G:H5'	1.89	0.54
29:D1:992:A:O2'	49:DT:59:GLY:HA3	2.08	0.54
29:D1:998:A:H2'	29:D1:999:G:C5'	2.38	0.54
29:D1:998:A:H4'	30:D2:103:A:C2	2.43	0.54
29:D1:1129:A:C2'	29:D1:1130:A:C5'	2.86	0.54
29:D1:1302:A:N3	29:D1:2887:A:N3	2.56	0.54
29:D1:1459:C:H2'	29:D1:1460:A:H5'	1.89	0.54
29:D1:1560:G:H22	29:D1:1579:C:H1'	1.72	0.54
29:D1:1628:C:HO2'	29:D1:1630:U:H5'	1.71	0.54
29:D1:1799:A:H2	29:D1:1800:A:C2	2.26	0.54
29:D1:1864:A:H3'	29:D1:1865:A:H8	1.71	0.54
29:D1:1945:A:H2'	29:D1:1946:A:C8	2.43	0.54
29:D1:2414:G:C2	29:D1:2415:C:C2	2.96	0.54
29:D1:2581:U:OP2	29:D1:2581:U:C6	2.61	0.54
29:D1:2594:C:OP2	29:D1:2594:C:C6	2.56	0.54
29:D1:2749:G:C5	29:D1:2750:U:C4	2.95	0.54
29:D1:2797:C:C3'	29:D1:2798:C:C5'	2.86	0.54
29:D1:2847:A:C2	29:D1:2848:G:C1'	2.90	0.54
29:D1:2900:A:N1	29:D1:2901:G:C5	2.76	0.54
29:D1:3149:G:C2	29:D1:3150:A:N9	2.76	0.54
29:D1:3153:U:H5"	29:D1:3293:U:H6	1.72	0.54
29:D1:3180:A:C2	45:DP:166:GLU:CB	2.90	0.54
29:D1:3209:A:C6	29:D1:3210:A:N6	2.76	0.54
29:D1:3210:A:H2'	29:D1:3211:C:C6	2.43	0.54
29:D1:3294:A:H2'	29:D1:3295:A:H5'	1.90	0.54
29:D1:3310:A:C6	29:D1:3311:C:C5	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3321:C:OP2	29:D1:3321:C:H6	1.91	0.54
29:D1:3331:U:C6	29:D1:3331:U:H5"	2.42	0.54
29:D1:3348:G:C6	29:D1:3349:C:O2	2.61	0.54
30:D2:2:G:N3	30:D2:3:U:C6	2.76	0.54
30:D2:13:A:N3	30:D2:13:A:C2'	2.62	0.54
30:D2:25:G:C4	30:D2:26:C:N4	2.76	0.54
31:D3:16:G:O6	74:D3:212:OHX:N6	2.41	0.54
31:D3:61:A:C2'	31:D3:62:C:OP2	2.56	0.54
31:D3:72:A:HO2'	31:D3:73:U:P	2.30	0.54
37:DF:124:GLU:O	37:DF:126:GLN:N	2.34	0.54
41:DJ:42:THR:C	41:DJ:44:ASP:H	2.16	0.54
43:DN:11:ASN:CB	43:DN:64:VAL:CB	2.86	0.54
49:DT:50:LYS:C	49:DT:52:MET:N	2.61	0.54
51:DV:5:ILE:O	51:DV:6:ASP:CB	2.56	0.54
53:DX:69:LYS:O	53:DX:83:ASP:N	2.37	0.54
1:A1:26:A:C2	1:A1:600:U:O2	2.61	0.54
1:A1:149:C:C2	1:A1:150:U:C5	2.96	0.54
1:A1:243:G:OP1	1:A1:243:G:H4'	2.08	0.54
1:A1:325:G:O2'	1:A1:326:G:H5'	2.07	0.54
1:A1:432:G:H2'	1:A1:433:C:O4'	2.07	0.54
1:A1:487:G:HO2'	1:A1:488:G:H8	1.54	0.54
1:A1:528:U:H3	1:A1:530:C:N4	2.05	0.54
1:A1:789:A:H3'	1:A1:790:U:C6	2.42	0.54
1:A1:824:G:H5"	1:A1:825:U:C5'	2.38	0.54
1:A1:847:A:C2'	1:A1:848:C:C5'	2.82	0.54
1:A1:898:A:N6	1:A1:914:G:N2	2.56	0.54
1:A1:1000:C:C6	1:A1:1002:G:OP2	2.61	0.54
1:A1:1377:U:C2	1:A1:1378:U:H4'	2.43	0.54
1:A1:1378:U:O4'	1:A1:1379:C:H6	1.91	0.54
1:A1:1382:A:N3	1:A1:1383:G:C8	2.76	0.54
3:AB:206:THR:O	3:AB:209:ASN:N	2.41	0.54
5:AD:99:MET:C	5:AD:101:GLY:N	2.63	0.54
5:AD:131:GLN:O	5:AD:135:ASP:CB	2.56	0.54
6:AE:100:LYS:HA	6:AE:104:PHE:H	1.72	0.54
29:B1:31:C:O2'	29:B1:32:U:H5'	2.07	0.54
29:B1:62:A:H2'	29:B1:63:A:H8	1.72	0.54
29:B1:134:U:N3	58:Bc:67:ARG:HA	2.23	0.54
29:B1:302:U:O2'	29:B1:303:G:H5'	2.07	0.54
29:B1:370:U:C5	29:B1:371:G:C5	2.96	0.54
29:B1:509:U:H2'	29:B1:510:G:O5'	2.08	0.54
29:B1:515:C:C2'	29:B1:516:A:H5"	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:589:A:H5"	29:B1:611:A:H2	1.73	0.54
29:B1:709:A:N6	29:B1:710:A:N1	2.56	0.54
29:B1:888:A:C6	29:B1:889:U:C4	2.96	0.54
29:B1:943:U:O2'	29:B1:944:C:H5"	2.07	0.54
29:B1:986:U:C2	29:B1:987:U:C6	2.96	0.54
29:B1:997:A:N3	30:B2:102:A:H2	2.06	0.54
29:B1:1004:U:C4	29:B1:1005:G:N7	2.76	0.54
29:B1:1018:G:N1	74:B1:3529:OHX:N5	2.55	0.54
29:B1:1626:U:H2'	29:B1:1627:U:O4'	2.08	0.54
29:B1:1795:U:O4'	29:B1:1796:G:N3	2.40	0.54
29:B1:2304:C:O2'	29:B1:2305:G:C5'	2.48	0.54
29:B1:2326:A:C6	29:B1:2327:U:C4	2.96	0.54
29:B1:2328:U:C2	29:B1:2329:C:C6	2.95	0.54
29:B1:2399:A:N1	29:B1:2981:U:C4	2.76	0.54
29:B1:2692:A:C6	29:B1:2693:C:C4	2.96	0.54
29:B1:2814:G:N2	29:B1:2815:G:C4	2.75	0.54
29:B1:2833:A:C6	29:B1:2834:G:C8	2.95	0.54
29:B1:2836:C:O2	29:B1:2836:C:H3'	2.08	0.54
29:B1:2917:G:C2	29:B1:2918:G:C8	2.96	0.54
29:B1:3045:G:H2'	29:B1:3046:A:O4'	2.08	0.54
29:B1:3045:G:H3'	29:B1:3045:G:C8	2.43	0.54
29:B1:3073:A:C6	29:B1:3074:G:C5	2.96	0.54
29:B1:3126:C:C2	29:B1:3127:A:C8	2.96	0.54
29:B1:3186:A:H4'	29:B1:3187:A:O5'	2.08	0.54
29:B1:3274:A:H1'	29:B1:3275:U:OP2	2.05	0.54
29:B1:3281:U:N3	29:B1:3282:U:O4	2.41	0.54
29:B1:3294:A:N1	29:B1:3295:A:C4	2.76	0.54
29:B1:3377:G:C4	74:B1:3450:OHX:N1	2.76	0.54
30:B2:24:A:N3	30:B2:25:G:C8	2.76	0.54
31:B3:29:U:H2'	31:B3:30:C:C6	2.41	0.54
34:BC:310:GLY:O	34:BC:311:PHE:C	2.50	0.54
34:BC:317:ILE:O	34:BC:318:LYS:CB	2.55	0.54
39:BH:99:PRO:CB	39:BH:237:ILE:N	2.62	0.54
45:BP:36:VAL:CB	45:BP:105:PHE:H	2.21	0.54
45:BP:99:LEU:C	45:BP:101:ARG:N	2.64	0.54
54:BY:5:PHE:O	54:BY:8:THR:N	2.31	0.54
57:Bb:112:ALA:O	57:Bb:113:LYS:C	2.51	0.54
1:C1:142:G:C5	1:C1:266:A:C5	2.95	0.54
1:C1:321:C:C2'	1:C1:322:G:H8	2.21	0.54
1:C1:333:A:C2	1:C1:334:G:C4	2.95	0.54
1:C1:541:A:C8	1:C1:541:A:OP2	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:710:U:N3	1:C1:729:G:N1	2.56	0.54
1:C1:717:C:N4	1:C1:722:G:H22	2.05	0.54
1:C1:1045:C:C2'	1:C1:1046:G:OP1	2.56	0.54
1:C1:1420:C:H3'	1:C1:1420:C:C6	2.43	0.54
1:C1:1570:A:N3	1:C1:1570:A:H2'	2.22	0.54
1:C1:1579:U:N3	1:C1:1580:C:C4	2.75	0.54
1:C1:1588:G:N3	1:C1:1588:G:H2'	2.23	0.54
1:C1:1626:U:O2'	1:C1:1627:U:H5'	2.07	0.54
1:C1:1689:A:H5'	1:C1:1690:G:OP2	2.07	0.54
1:C1:1783:C:C2	1:C1:1784:C:C5	2.96	0.54
3:CB:62:PRO:CA	3:CB:63:VAL:CB	2.86	0.54
6:CE:117:GLY:O	6:CE:118:LEU:C	2.51	0.54
13:CL:48:LYS:C	13:CL:50:ALA:N	2.66	0.54
29:D1:235:A:H2'	29:D1:236:G:H8	1.71	0.54
29:D1:395:A:C6	29:D1:396:A:N6	2.76	0.54
29:D1:407:A:C2'	29:D1:408:A:H5'	2.37	0.54
29:D1:495:G:O2'	29:D1:496:C:H5'	2.08	0.54
29:D1:547:G:H8	29:D1:548:G:C5	2.25	0.54
29:D1:571:U:C2'	29:D1:572:A:H5'	2.37	0.54
29:D1:602:A:N1	29:D1:603:A:N6	2.56	0.54
29:D1:802:C:H2'	29:D1:803:C:H6	1.73	0.54
29:D1:818:C:H2'	29:D1:819:U:H5'	1.90	0.54
29:D1:888:A:C6	29:D1:889:U:C2	2.96	0.54
29:D1:977:C:O2'	29:D1:978:G:OP2	2.25	0.54
29:D1:1144:U:HO2'	29:D1:1145:G:P	2.31	0.54
29:D1:1212:A:C2	29:D1:1294:A:C2	2.96	0.54
29:D1:1288:U:C2'	29:D1:1289:G:C5'	2.85	0.54
29:D1:1328:C:H2'	29:D1:1329:U:C6	2.43	0.54
29:D1:1354:G:C8	29:D1:1355:A:C6	2.91	0.54
29:D1:1771:C:C4	29:D1:1772:U:C5	2.96	0.54
29:D1:1851:G:C5	29:D1:1852:G:N7	2.76	0.54
29:D1:2429:G:O2'	29:D1:2430:A:H5'	2.08	0.54
29:D1:2520:A:C5	29:D1:2521:U:C4	2.96	0.54
29:D1:2631:U:C2	29:D1:2632:G:C8	2.96	0.54
29:D1:2896:A:C2'	29:D1:2897:A:C5'	2.85	0.54
29:D1:2984:C:C2	29:D1:2985:C:C5	2.96	0.54
29:D1:3091:A:C4	29:D1:3094:A:C8	2.96	0.54
29:D1:3135:U:C4	29:D1:3136:G:C4	2.95	0.54
29:D1:3303:G:C2'	29:D1:3304:U:H5'	2.38	0.54
30:D2:26:C:H6	30:D2:26:C:O5'	1.90	0.54
30:D2:69:C:C2	30:D2:70:U:C5	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:69:U:H2'	31:D3:70:G:O2'	2.08	0.54
31:D3:70:G:H5'	31:D3:71:A:H8	1.64	0.54
31:D3:108:C:H2'	31:D3:109:A:O5'	2.07	0.54
39:DH:103:ALA:C	39:DH:105:LYS:H	2.16	0.54
43:DN:73:PRO:O	43:DN:76:ALA:N	2.41	0.54
46:DQ:25:SER:O	46:DQ:26:PHE:C	2.50	0.54
57:Db:68:PRO:O	57:Db:69:SER:CB	2.56	0.54
61:Df:80:ARG:O	61:Df:81:ALA:C	2.51	0.54
1:A1:42:G:O4'	1:A1:437:A:C8	2.61	0.53
1:A1:156:A:H2'	1:A1:157:A:O4'	2.08	0.53
1:A1:160:C:O2'	1:A1:161:U:P	2.66	0.53
1:A1:553:G:C6	1:A1:554:C:C4	2.96	0.53
1:A1:749:U:O2	1:A1:801:G:C4	2.61	0.53
1:A1:862:A:H4'	1:A1:863:A:O5'	2.07	0.53
1:A1:1192:C:C6	1:A1:1193:A:C8	2.97	0.53
1:A1:1227:A:H8	1:A1:1229:G:OP2	1.91	0.53
1:A1:1244:A:N1	1:A1:1245:G:C4	2.76	0.53
4:AC:56:GLN:O	4:AC:59:LEU:N	2.38	0.53
8:AG:51:GLY:O	8:AG:55:ARG:HA	2.08	0.53
9:AH:3:ASN:O	9:AH:4:VAL:CB	2.56	0.53
15:AN:71:PRO:O	15:AN:72:ASN:CB	2.56	0.53
17:AP:76:LEU:O	17:AP:77:ILE:C	2.51	0.53
20:AS:38:ILE:CB	74:AS:101:OHX:N6	2.71	0.53
29:B1:87:U:H2'	29:B1:87:U:O2	2.09	0.53
29:B1:140:C:O2'	29:B1:141:C:H5'	2.08	0.53
29:B1:244:G:H3'	29:B1:245:U:H5'	1.89	0.53
29:B1:584:G:N3	29:B1:585:A:C8	2.76	0.53
29:B1:595:G:O6	29:B1:609:G:O4'	2.26	0.53
29:B1:636:C:H5	29:B1:2378:C:H1'	1.74	0.53
29:B1:943:U:C1'	29:B1:1432:C:H6	2.21	0.53
29:B1:954:U:H5	29:B1:1115:G:HO2'	1.53	0.53
29:B1:1097:G:O3'	29:B1:1098:A:H4'	2.08	0.53
29:B1:1271:A:H3'	29:B1:1271:A:N3	2.23	0.53
29:B1:1288:U:C2	29:B1:1289:G:C8	2.95	0.53
29:B1:1352:A:H3'	29:B1:1353:U:C4'	2.38	0.53
29:B1:1422:G:C6	29:B1:1423:C:C4	2.96	0.53
29:B1:1514:G:C8	29:B1:1841:A:C2	2.96	0.53
29:B1:2151:C:H6	29:B1:2151:C:C5'	2.13	0.53
29:B1:2254:U:C5	29:B1:2254:U:OP2	2.61	0.53
29:B1:2326:A:C5	29:B1:2327:U:C5	2.96	0.53
29:B1:2364:G:H8	29:B1:2364:G:OP2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2405:C:O2	29:B1:2406:C:C6	2.61	0.53
29:B1:2626:A:N7	29:B1:2644:C:H5'	2.23	0.53
29:B1:2677:G:H21	29:B1:2678:A:H5'	1.72	0.53
29:B1:2689:A:C2	29:B1:2702:A:C2	2.93	0.53
29:B1:3011:A:N1	34:BC:13:HIS:HA	2.23	0.53
29:B1:3175:U:O2	29:B1:3175:U:O4'	2.26	0.53
29:B1:3175:U:OP1	29:B1:3278:C:H1'	2.08	0.53
29:B1:3381:U:C4	29:B1:3383:G:C6	2.97	0.53
30:B2:41:G:N3	30:B2:41:G:C2'	2.67	0.53
30:B2:74:C:C5	30:B2:75:G:C5	2.96	0.53
31:B3:1:A:C2'	31:B3:2:A:O5'	2.56	0.53
32:BA:155:ILE:HA	32:BA:156:LYS:CB	2.37	0.53
34:BC:50:LYS:O	34:BC:332:ARG:HA	2.08	0.53
38:BG:41:ARG:C	38:BG:43:ILE:N	2.63	0.53
38:BG:221:LYS:O	38:BG:222:HIS:CB	2.53	0.53
44:BO:20:ARG:C	44:BO:22:LEU:H	2.16	0.53
46:BQ:85:ALA:O	46:BQ:88:VAL:N	2.41	0.53
48:BS:23:TRP:N	48:BS:51:VAL:O	2.41	0.53
58:Bc:14:LYS:O	58:Bc:18:ALA:HB2	2.08	0.53
70:Bq:16:UNK:O	70:Bq:18:UNK:N	2.41	0.53
1:C1:601:A:H5'	1:C1:602:U:OP2	2.08	0.53
1:C1:639:U:OP1	23:Cb:72:UNK:CA	2.56	0.53
1:C1:973:A:O4'	29:D1:847:A:N1	2.41	0.53
1:C1:1203:A:C2	1:C1:1556:A:N3	2.75	0.53
1:C1:1209:C:C4	1:C1:1455:G:N2	2.76	0.53
1:C1:1412:G:H4'	1:C1:1413:U:OP1	2.07	0.53
1:C1:1654:G:C2	1:C1:1745:G:C4	2.96	0.53
1:C1:1684:U:O4	1:C1:1721:A:H2	1.85	0.53
1:C1:1763:A:H2'	1:C1:1764:C:H5"	1.91	0.53
2:CA:52:LYS:C	2:CA:54:TRP:N	2.60	0.53
5:CD:199:ILE:C	5:CD:201:ALA:N	2.63	0.53
29:D1:91:G:C8	29:D1:93:C:C6	2.96	0.53
29:D1:160:G:N2	29:D1:263:C:HO2'	2.06	0.53
29:D1:259:C:H2'	29:D1:260:C:H6	1.71	0.53
29:D1:382:U:C3'	29:D1:383:G:C4'	2.85	0.53
29:D1:435:C:H2'	29:D1:436:A:C8	2.44	0.53
29:D1:705:A:N6	29:D1:715:A:C8	2.77	0.53
29:D1:757:C:N4	29:D1:758:C:C4	2.76	0.53
29:D1:882:A:H2	29:D1:885:U:C6	2.23	0.53
29:D1:913:A:H1'	29:D1:2147:A:O4'	2.07	0.53
29:D1:995:U:O2'	29:D1:996:A:OP2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1077:U:O2'	29:D1:1078:U:O4'	2.26	0.53
29:D1:1119:C:H1'	29:D1:1154:A:C4	2.44	0.53
29:D1:1140:G:C2	29:D1:1141:C:C6	2.96	0.53
29:D1:1167:U:C6	29:D1:1167:U:C5'	2.87	0.53
29:D1:1230:G:H4'	73:DM:33:VAL:H	1.73	0.53
29:D1:1444:G:C2'	29:D1:1445:U:O5'	2.56	0.53
29:D1:1625:A:N6	29:D1:1626:U:C2	2.76	0.53
29:D1:1835:A:H2'	29:D1:1836:C:C6	2.43	0.53
29:D1:2131:A:C3'	29:D1:2132:C:H5"	2.38	0.53
29:D1:2317:A:H2'	29:D1:2318:U:O4'	2.08	0.53
29:D1:2422:C:H2'	29:D1:2423:U:O5'	2.09	0.53
29:D1:2544:U:H2'	29:D1:2545:C:C6	2.43	0.53
29:D1:2545:C:C2	29:D1:2546:C:C6	2.96	0.53
29:D1:2727:A:H2	29:D1:2729:U:C5	2.25	0.53
29:D1:2804:A:O2'	29:D1:2805:G:C5'	2.56	0.53
29:D1:2810:C:H4'	29:D1:2810:C:OP1	2.09	0.53
29:D1:2856:G:N2	29:D1:2857:C:C2	2.76	0.53
29:D1:2899:C:O2	40:DI:171:ASP:CB	2.57	0.53
29:D1:2932:U:C2	29:D1:2934:A:OP2	2.61	0.53
29:D1:3147:G:H4'	34:DC:100:ARG:HA	1.90	0.53
29:D1:3209:A:C3'	29:D1:3210:A:C8	2.91	0.53
29:D1:3278:C:O3'	29:D1:3279:A:O4'	2.26	0.53
31:D3:65:A:C5	31:D3:66:A:N7	2.75	0.53
31:D3:93:U:O3'	31:D3:94:C:O4'	2.27	0.53
34:DC:103:THR:O	34:DC:104:THR:C	2.52	0.53
36:DE:184:ASP:O	36:DE:185:PHE:CB	2.56	0.53
37:DF:152:THR:O	37:DF:155:LEU:N	2.31	0.53
42:DK:27:GLY:HA2	42:DK:29:ARG:N	2.16	0.53
45:DP:92:THR:O	45:DP:93:ALA:C	2.49	0.53
47:DR:59:ARG:O	47:DR:60:PRO:O	2.26	0.53
1:A1:304:U:O2	1:A1:304:U:C2'	2.56	0.53
1:A1:396:G:C2'	1:A1:397:A:O5'	2.57	0.53
1:A1:550:A:H4'	1:A1:556:A:C6	2.44	0.53
1:A1:576:G:H5"	1:A1:577:G:OP2	2.08	0.53
1:A1:627:C:H5"	1:A1:628:G:OP2	2.07	0.53
1:A1:720:G:C4'	1:A1:721:U:OP1	2.52	0.53
1:A1:743:U:O2'	1:A1:744:U:P	2.66	0.53
1:A1:802:G:H5"	1:A1:803:A:OP2	2.08	0.53
1:A1:902:G:H8	1:A1:902:G:O5'	1.91	0.53
1:A1:980:G:H4'	1:A1:1776:A:H4'	1.89	0.53
1:A1:1005:A:C8	1:A1:1006:C:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1006:C:C6	1:A1:1007:C:C5	2.92	0.53
1:A1:1053:G:N2	1:A1:1067:C:H1'	2.23	0.53
1:A1:1107:G:H2'	1:A1:1108:G:N3	2.23	0.53
1:A1:1334:U:H2'	1:A1:1335:U:C1'	2.37	0.53
1:A1:1379:C:H2'	1:A1:1380:U:H5'	1.90	0.53
1:A1:1422:A:H2'	1:A1:1423:U:O4'	2.08	0.53
1:A1:1431:C:H5'	1:A1:1432:U:H5'	1.90	0.53
1:A1:1515:A:C3'	1:A1:1516:A:H5"	2.38	0.53
1:A1:1534:G:H4'	1:A1:1536:G:N7	2.22	0.53
1:A1:1588:G:H2'	1:A1:1588:G:N3	2.22	0.53
1:A1:1592:A:O2'	1:A1:1593:A:H5'	2.07	0.53
1:A1:1682:U:C2	1:A1:1683:C:C4	2.96	0.53
1:A1:1764:C:C5'	1:A1:1764:C:C6	2.88	0.53
4:AC:14:ASP:C	4:AC:16:VAL:N	2.61	0.53
10:AI:76:VAL:O	10:AI:94:VAL:HA	2.08	0.53
10:AI:80:MET:C	10:AI:82:ASN:N	2.64	0.53
12:AK:66:VAL:O	12:AK:67:ARG:C	2.50	0.53
14:AM:24:ARG:O	14:AM:25:GLN:CB	2.56	0.53
15:AN:97:VAL:C	15:AN:99:ILE:N	2.65	0.53
29:B1:39:A:C5'	29:B1:40:A:OP2	2.53	0.53
29:B1:127:G:H2'	29:B1:128:G:C8	2.43	0.53
29:B1:283:G:H2'	29:B1:285:A:N7	2.22	0.53
29:B1:392:G:N1	29:B1:393:U:C5	2.75	0.53
29:B1:557:A:N7	29:B1:559:A:N6	2.56	0.53
29:B1:564:G:C5	29:B1:565:U:C4	2.96	0.53
29:B1:594:U:C2	29:B1:595:G:C4	2.97	0.53
29:B1:632:G:H2'	29:B1:633:C:O5'	2.08	0.53
29:B1:642:U:H4'	29:B1:1116:G:C6	2.42	0.53
29:B1:665:A:C5	29:B1:666:A:N7	2.76	0.53
29:B1:761:A:C2	29:B1:762:U:C1'	2.90	0.53
29:B1:965:A:N6	29:B1:966:U:N3	2.56	0.53
29:B1:1064:A:O2'	29:B1:1065:A:OP1	2.24	0.53
29:B1:1076:C:H2'	29:B1:1076:C:O2	2.08	0.53
29:B1:1174:G:C5	29:B1:1318:A:C4	2.96	0.53
29:B1:1179:A:O4'	29:B1:1328:C:O4'	2.26	0.53
29:B1:1338:C:C2	29:B1:1339:C:C5	2.97	0.53
29:B1:1388:U:C4	29:B1:1389:G:N7	2.76	0.53
29:B1:1390:A:N3	29:B1:1390:A:H5"	2.22	0.53
29:B1:1704:A:N6	29:B1:1739:U:N3	2.56	0.53
29:B1:1782:U:C2'	29:B1:1783:U:O4'	2.52	0.53
29:B1:2133:U:H2'	29:B1:2134:G:C5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2355:G:OP1	46:BQ:141:SER:CB	2.56	0.53
29:B1:2513:U:C4	29:B1:2592:G:N3	2.76	0.53
29:B1:2639:G:C4	29:B1:2640:A:C8	2.97	0.53
29:B1:2658:G:C5	29:B1:2659:G:N7	2.77	0.53
29:B1:2678:A:C8	29:B1:2679:A:N3	2.66	0.53
29:B1:2739:A:N3	29:B1:2739:A:H2'	2.23	0.53
29:B1:2838:A:C2	29:B1:2851:A:N9	2.76	0.53
29:B1:2882:U:C2'	29:B1:2883:U:O5'	2.53	0.53
29:B1:2914:G:C5	29:B1:2915:U:C5	2.96	0.53
29:B1:2950:G:N3	29:B1:2950:G:H2'	2.21	0.53
29:B1:2997:G:H1'	29:B1:2998:U:OP2	2.07	0.53
29:B1:3209:A:N1	29:B1:3210:A:C2	2.76	0.53
29:B1:3303:G:C2	29:B1:3305:A:C4	2.95	0.53
31:B3:2:A:C2'	31:B3:3:A:H5'	2.39	0.53
31:B3:3:A:H2'	31:B3:4:C:H5'	1.89	0.53
31:B3:127:U:O2	31:B3:127:U:C2'	2.56	0.53
34:BC:137:TYR:O	34:BC:138:ALA:HB3	2.08	0.53
37:BF:40:LEU:C	37:BF:85:ILE:HA	2.31	0.53
38:BG:199:ASN:C	38:BG:201:PHE:H	2.15	0.53
42:BK:133:ARG:CB	42:BK:155:THR:H	2.21	0.53
45:BP:109:PRO:O	45:BP:110:PRO:CB	2.56	0.53
47:BR:19:PRO:O	47:BR:20:LYS:CB	2.56	0.53
52:BW:60:TYR:O	52:BW:61:LYS:CB	2.55	0.53
56:Ba:14:ILE:O	56:Ba:15:ASN:CB	2.56	0.53
56:Ba:38:LYS:C	56:Ba:40:ALA:N	2.66	0.53
1:C1:15:U:C2'	1:C1:16:G:H5'	2.38	0.53
1:C1:251:A:H2'	1:C1:252:U:C5'	2.38	0.53
1:C1:454:U:O2'	1:C1:455:C:P	2.66	0.53
1:C1:521:A:O3'	1:C1:523:G:C8	2.61	0.53
1:C1:635:A:H2'	1:C1:636:A:H8	1.73	0.53
1:C1:993:A:C5	1:C1:1012:U:O2	2.61	0.53
1:C1:1074:G:O6	1:C1:1075:C:C4	2.61	0.53
1:C1:1138:A:N1	1:C1:1139:A:C6	2.76	0.53
1:C1:1150:G:C6	1:C1:1151:A:C4	2.96	0.53
1:C1:1258:U:C2'	1:C1:1259:U:O4'	2.53	0.53
1:C1:1310:U:C2'	1:C1:1311:U:O5'	2.57	0.53
1:C1:1429:G:C6	1:C1:1430:U:C4	2.96	0.53
1:C1:1616:G:N2	1:C1:1618:C:H41	1.93	0.53
4:CC:80:ALA:C	4:CC:82:GLY:N	2.63	0.53
6:CE:77:ILE:C	6:CE:79:ARG:N	2.66	0.53
7:CF:80:MET:O	7:CF:81:HIS:C	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:119:GLU:O	8:CG:122:ILE:N	2.41	0.53
15:CN:52:LYS:HA	15:CN:92:ASP:O	2.08	0.53
16:CO:75:ILE:O	16:CO:76:SER:O	2.25	0.53
23:Cb:25:UNK:O	23:Cb:26:UNK:CB	2.55	0.53
29:D1:14:U:C4'	29:D1:15:C:OP2	2.43	0.53
29:D1:25:U:C2	29:D1:26:A:C8	2.96	0.53
29:D1:282:G:C4'	29:D1:283:G:H8	2.20	0.53
29:D1:374:A:C2	29:D1:375:A:C4	2.96	0.53
29:D1:383:G:H2'	29:D1:385:A:P	2.48	0.53
29:D1:429:U:O2'	29:D1:430:U:H5'	2.08	0.53
29:D1:504:A:H2'	29:D1:505:G:C5'	2.37	0.53
29:D1:593:C:C3'	29:D1:594:U:O4'	2.56	0.53
29:D1:648:C:H5	29:D1:2375:G:P	2.31	0.53
29:D1:665:A:N6	29:D1:666:A:N6	2.56	0.53
29:D1:712:G:H2'	29:D1:713:U:C6	2.43	0.53
29:D1:832:G:N2	29:D1:863:C:N1	2.55	0.53
29:D1:938:C:H2'	29:D1:939:U:H5"	1.90	0.53
29:D1:1544:G:O2'	29:D1:2167:A:O2'	2.10	0.53
29:D1:1549:U:H2'	29:D1:1550:C:H6	1.73	0.53
29:D1:1565:G:N1	29:D1:1566:A:H1'	2.23	0.53
29:D1:1702:U:O4	29:D1:1703:U:H6	1.90	0.53
29:D1:2260:U:C2'	29:D1:2261:G:N7	2.71	0.53
29:D1:2609:A:C4	29:D1:2610:G:N7	2.76	0.53
29:D1:2649:A:C2	29:D1:2650:U:C6	2.96	0.53
29:D1:2822:U:H2'	29:D1:2823:G:O5'	2.07	0.53
29:D1:3060:C:OP1	29:D1:3374:U:H5'	2.08	0.53
29:D1:3235:C:C4	29:D1:3236:U:C5	2.97	0.53
29:D1:3352:U:H2'	29:D1:3352:U:O2	2.08	0.53
29:D1:3387:U:C2	29:D1:3388:C:N4	2.76	0.53
31:D3:90:U:OP2	31:D3:90:U:H3'	2.08	0.53
42:DK:49:LYS:O	42:DK:50:ALA:HB2	2.08	0.53
46:DQ:6:ALA:O	46:DQ:8:SER:N	2.41	0.53
47:DR:75:GLY:O	47:DR:76:ALA:HB2	2.08	0.53
57:Db:73:THR:HA	57:Db:93:ALA:O	2.09	0.53
57:Db:114:ALA:C	57:Db:116:GLY:N	2.65	0.53
59:Dd:68:LYS:C	59:Dd:70:VAL:N	2.65	0.53
63:Dh:18:UNK:O	63:Dh:22:UNK:N	2.41	0.53
1:A1:55:A:H3'	1:A1:56:U:C5'	2.39	0.53
1:A1:125:U:HO2'	1:A1:126:A:H5'	1.70	0.53
1:A1:167:U:H6	1:A1:167:U:H5"	1.72	0.53
1:A1:173:A:N6	1:A1:174:U:C6	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:284:G:H8	25:Ad:114:UNK:O	1.89	0.53
1:A1:454:U:O2'	1:A1:455:C:P	2.66	0.53
1:A1:617:U:H5'	1:A1:1031:U:O4'	2.09	0.53
1:A1:832:U:C3'	1:A1:833:U:H5"	2.38	0.53
1:A1:1146:G:C6	1:A1:1633:A:N6	2.76	0.53
1:A1:1194:A:H2'	1:A1:1195:C:H5'	1.89	0.53
1:A1:1243:G:N7	1:A1:1244:A:N6	2.54	0.53
1:A1:1347:U:H3	1:A1:1376:C:H41	1.55	0.53
1:A1:1503:A:C2'	1:A1:1504:G:H5'	2.37	0.53
1:A1:1786:G:H2'	1:A1:1787:C:C5	2.43	0.53
8:AG:69:ASN:O	8:AG:70:LYS:C	2.51	0.53
17:AP:129:GLY:O	17:AP:130:VAL:CB	2.56	0.53
25:Ad:114:UNK:O	25:Ad:115:UNK:CB	2.56	0.53
29:B1:126:U:C2	29:B1:127:G:C8	2.96	0.53
29:B1:171:G:N3	29:B1:172:G:C8	2.77	0.53
29:B1:219:A:H2	29:B1:1390:A:C2'	2.19	0.53
29:B1:244:G:H2'	29:B1:245:U:C5'	2.38	0.53
29:B1:278:U:OP1	61:Bf:49:GLY:N	2.41	0.53
29:B1:422:A:H3'	29:B1:2364:G:C5'	2.38	0.53
29:B1:427:C:H2'	29:B1:428:A:H5'	1.90	0.53
29:B1:637:C:O2'	29:B1:638:C:C6	2.55	0.53
29:B1:759:U:C2	29:B1:773:G:N1	2.76	0.53
29:B1:776:U:H3'	29:B1:777:U:H5"	1.87	0.53
29:B1:1097:G:H1'	29:B1:1098:A:O2'	2.07	0.53
29:B1:1198:C:H2'	29:B1:1200:A:C8	2.43	0.53
29:B1:1338:C:H2'	29:B1:1338:C:O2	2.07	0.53
29:B1:1390:A:C6	29:B1:1418:A:C4	2.97	0.53
29:B1:1399:A:C2	31:B3:8:C:H1'	2.44	0.53
29:B1:1856:C:O2'	29:B1:1857:C:H5'	2.08	0.53
29:B1:2145:A:O4'	29:B1:2958:A:H4'	2.08	0.53
29:B1:2163:C:H2'	29:B1:2163:C:O2	2.08	0.53
29:B1:2190:U:C4	29:B1:2191:U:C4	2.97	0.53
29:B1:2290:C:N3	29:B1:2303:A:N1	2.56	0.53
29:B1:2407:C:C2	29:B1:2815:G:N2	2.76	0.53
29:B1:2435:G:C6	29:B1:2593:A:C5	2.97	0.53
29:B1:2561:A:H2'	29:B1:2562:A:C8	2.39	0.53
29:B1:2639:G:C2	29:B1:2640:A:N9	2.76	0.53
29:B1:2727:A:OP1	49:BT:81:GLY:O	2.26	0.53
29:B1:2868:U:H5"	29:B1:2869:U:OP2	2.08	0.53
29:B1:3013:U:H5"	29:B1:3013:U:H6	1.73	0.53
29:B1:3294:A:C2'	29:B1:3295:A:H5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:74:C:C6	30:B2:75:G:C8	2.96	0.53
31:B3:53:A:C5	31:B3:54:A:N7	2.76	0.53
33:BB:172:GLY:O	33:BB:173:GLY:C	2.50	0.53
35:BD:82:THR:O	35:BD:84:ARG:O	2.26	0.53
36:BE:217:GLU:O	36:BE:221:GLU:N	2.35	0.53
37:BF:30:LEU:CB	37:BF:31:ARG:CA	2.86	0.53
37:BF:171:PRO:O	37:BF:172:HIS:CB	2.57	0.53
41:BJ:17:TYR:O	41:BJ:19:LYS:N	2.42	0.53
42:BK:34:SER:O	42:BK:35:LYS:C	2.51	0.53
42:BK:50:ALA:CB	42:BK:63:GLU:H	2.16	0.53
43:BN:28:SER:O	43:BN:29:ALA:CB	2.55	0.53
43:BN:76:ALA:C	43:BN:78:THR:H	2.17	0.53
45:BP:139:GLY:O	45:BP:143:THR:N	2.40	0.53
46:BQ:70:THR:O	46:BQ:71:ALA:C	2.51	0.53
54:BY:21:ARG:O	54:BY:22:ILE:CB	2.56	0.53
56:Ba:84:ASP:O	56:Ba:85:ALA:HB3	2.08	0.53
61:Bf:80:ARG:O	61:Bf:81:ALA:C	2.51	0.53
70:Bq:14:UNK:O	70:Bq:17:UNK:N	2.42	0.53
1:C1:116:U:H2'	1:C1:117:U:C6	2.42	0.53
1:C1:168:A:C6	1:C1:169:A:C6	2.96	0.53
1:C1:244:A:H2'	1:C1:245:U:H6	1.74	0.53
1:C1:378:A:H2'	1:C1:379:U:O5'	2.08	0.53
1:C1:400:A:H5'	1:C1:401:A:H5'	1.89	0.53
1:C1:734:A:N7	1:C1:735:C:C4	2.75	0.53
1:C1:800:U:H2'	1:C1:801:G:C8	2.43	0.53
1:C1:1378:U:O4'	1:C1:1379:C:H6	1.92	0.53
1:C1:1438:G:H2'	1:C1:1439:C:O4'	2.08	0.53
1:C1:1458:G:H5"	1:C1:1458:G:C4	2.43	0.53
1:C1:1471:A:H2'	1:C1:1471:A:N3	2.23	0.53
1:C1:1538:U:C6	1:C1:1538:U:C3'	2.91	0.53
1:C1:1745:G:H8	1:C1:1745:G:O5'	1.90	0.53
6:CE:66:ASP:C	6:CE:68:LYS:N	2.50	0.53
6:CE:135:ALA:CB	6:CE:140:ILE:HA	2.39	0.53
24:Cc:22:UNK:C	24:Cc:24:UNK:N	2.69	0.53
28:Ch:51:UNK:C	28:Ch:53:UNK:N	2.66	0.53
29:D1:64:G:H8	29:D1:64:G:O5'	1.91	0.53
29:D1:80:G:O6	29:D1:106:A:N6	2.41	0.53
29:D1:208:C:C2'	29:D1:209:A:H5'	2.23	0.53
29:D1:208:C:C2	29:D1:209:A:C8	2.97	0.53
29:D1:670:C:O2'	29:D1:671:U:H5'	2.07	0.53
29:D1:845:G:H2'	29:D1:846:A:O5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:876:A:C2'	29:D1:877:C:H5'	2.39	0.53
29:D1:945:C:C2	29:D1:946:U:C6	2.96	0.53
29:D1:949:C:C2'	29:D1:950:G:H5'	2.38	0.53
29:D1:993:G:C6	29:D1:2637:A:C6	2.97	0.53
29:D1:1209:G:H2'	29:D1:1210:U:O4'	2.08	0.53
29:D1:1220:U:P	29:D1:1222:G:HO2'	2.30	0.53
29:D1:1283:C:OP1	73:DM:81:LYS:O	2.27	0.53
29:D1:1289:G:C4'	29:D1:1290:A:OP1	2.52	0.53
29:D1:1340:G:C4	29:D1:1341:U:C5	2.96	0.53
29:D1:1608:C:C2	29:D1:1609:C:C5	2.96	0.53
29:D1:1720:U:H3'	29:D1:1720:U:C6	2.43	0.53
29:D1:1907:C:C5	29:D1:1908:A:C4	2.96	0.53
29:D1:1939:G:H2'	29:D1:1940:G:C5'	2.38	0.53
29:D1:2157:G:N2	33:DB:125:ALA:HA	2.23	0.53
29:D1:2676:A:C2	29:D1:2680:A:C2	2.94	0.53
29:D1:2848:G:C6	29:D1:2849:C:C5	2.96	0.53
29:D1:2895:G:H5'	29:D1:3107:U:O2'	2.09	0.53
29:D1:2912:G:C6	29:D1:3130:A:C4	2.96	0.53
29:D1:3296:A:C4	29:D1:3297:U:C6	2.97	0.53
31:D3:40:A:C4	31:D3:41:A:N7	2.77	0.53
31:D3:67:U:C3'	31:D3:68:G:H8	2.14	0.53
31:D3:81:U:C3'	31:D3:82:U:C5'	2.85	0.53
31:D3:101:U:H2'	31:D3:102:U:O5'	2.07	0.53
33:DB:172:GLY:N	62:Dg:68:ALA:CB	2.72	0.53
35:DD:168:ALA:C	35:DD:170:LYS:H	2.16	0.53
36:DE:50:ARG:HA	36:DE:145:PHE:H	1.73	0.53
37:DF:131:LYS:O	38:DG:70:LYS:O	2.26	0.53
40:DI:87:LYS:HA	40:DI:147:SER:CB	2.38	0.53
59:Dd:43:LYS:C	59:Dd:45:ARG:H	2.16	0.53
1:A1:15:U:O2'	1:A1:16:G:H5'	2.08	0.53
1:A1:126:A:C6	1:A1:292:U:C2	2.96	0.53
1:A1:156:A:H8	1:A1:156:A:O5'	1.91	0.53
1:A1:166:C:N4	1:A1:167:U:O4	2.42	0.53
1:A1:195:G:H1'	1:A1:196:G:OP1	2.08	0.53
1:A1:272:U:H1'	1:A1:273:G:OP1	2.09	0.53
1:A1:286:C:H2'	1:A1:287:G:H8	1.73	0.53
1:A1:351:C:H4'	1:A1:352:A:OP2	2.08	0.53
1:A1:605:A:N6	1:A1:606:A:H61	2.05	0.53
1:A1:642:G:C6	1:A1:643:G:C5	2.97	0.53
1:A1:772:G:C5	1:A1:773:C:C4	2.96	0.53
1:A1:791:A:C4	1:A1:792:U:H5	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1032:G:C6	1:A1:1104:U:O4	2.62	0.53
1:A1:1161:C:H1'	1:A1:1620:C:H42	1.69	0.53
1:A1:1375:A:H2'	1:A1:1376:C:C2	2.43	0.53
1:A1:1379:C:H5'	1:A1:1380:U:OP2	2.08	0.53
1:A1:1435:G:H4'	1:A1:1436:A:H5'	1.90	0.53
1:A1:1512:G:H2'	1:A1:1513:G:H8	1.72	0.53
1:A1:1540:G:O2'	1:A1:1541:G:H5'	2.09	0.53
1:A1:1634:C:OP1	1:A1:1634:C:C5	2.62	0.53
1:A1:1656:U:OP2	1:A1:1656:U:C6	2.61	0.53
1:A1:1682:U:C2	1:A1:1683:C:N4	2.77	0.53
13:AL:33:THR:C	13:AL:35:ILE:N	2.64	0.53
15:AN:24:ILE:HA	15:AN:115:GLU:O	2.08	0.53
21:AT:173:GLY:C	21:AT:175:ASP:H	2.16	0.53
28:Ah:56:UNK:C	28:Ah:58:UNK:N	2.69	0.53
29:B1:111:C:O2	29:B1:111:C:C2'	2.55	0.53
29:B1:176:G:O2'	29:B1:177:U:C6	2.60	0.53
29:B1:543:C:H2'	29:B1:544:C:H5'	1.90	0.53
29:B1:594:U:N3	29:B1:595:G:C2	2.76	0.53
29:B1:597:G:H2'	29:B1:598:A:C8	2.41	0.53
29:B1:659:G:O2'	29:B1:660:A:C8	2.61	0.53
29:B1:661:G:C2	29:B1:802:C:H6	2.26	0.53
29:B1:705:A:C8	29:B1:715:A:N6	2.77	0.53
29:B1:716:A:P	29:B1:716:A:O4'	2.66	0.53
29:B1:718:G:H1'	29:B1:719:U:OP2	2.07	0.53
29:B1:750:G:H1	29:B1:784:A:C1'	2.21	0.53
29:B1:859:G:N2	29:B1:861:C:C1'	2.69	0.53
29:B1:945:C:C2	29:B1:1375:G:N2	2.77	0.53
29:B1:953:G:H8	29:B1:953:G:C3'	2.14	0.53
29:B1:1035:G:C5	29:B1:1036:A:C8	2.96	0.53
29:B1:1099:A:H2'	29:B1:1100:U:H5'	1.91	0.53
29:B1:1128:U:C5'	29:B1:1129:A:OP2	2.57	0.53
29:B1:1178:G:N7	29:B1:1179:A:C2	2.77	0.53
29:B1:1229:G:C2	29:B1:1230:G:C5	2.95	0.53
29:B1:1838:G:H4'	29:B1:1839:A:N9	2.23	0.53
29:B1:2116:G:C2	29:B1:3064:U:H5"	2.44	0.53
29:B1:2173:U:C4	29:B1:2174:G:C5	2.96	0.53
29:B1:2181:C:H2'	29:B1:2182:A:O5'	2.09	0.53
29:B1:2331:C:H2'	29:B1:2332:A:O4'	2.09	0.53
29:B1:2333:C:H2'	29:B1:2334:U:O4'	2.09	0.53
29:B1:2354:C:O2	29:B1:2354:C:C2'	2.56	0.53
29:B1:2368:A:H2'	29:B1:2369:G:H5'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2646:C:C2'	29:B1:2647:A:H5'	2.38	0.53
29:B1:2841:G:H3'	29:B1:2842:U:H5'	1.91	0.53
29:B1:3057:U:O2'	29:B1:3059:G:H8	1.92	0.53
29:B1:3057:U:HO2'	29:B1:3059:G:H8	1.56	0.53
29:B1:3133:C:C2'	29:B1:3134:A:O5'	2.57	0.53
29:B1:3219:G:H1'	29:B1:3257:C:H5'	1.90	0.53
29:B1:3372:A:C5	29:B1:3373:U:C4	2.96	0.53
31:B3:13:A:H2'	31:B3:14:C:H6	1.73	0.53
31:B3:34:U:C2	31:B3:34:U:C3'	2.84	0.53
46:BQ:85:ALA:O	46:BQ:86:LYS:C	2.49	0.53
53:BX:24:SER:C	53:BX:26:GLN:N	2.67	0.53
61:Bf:3:ASN:HA	61:Bf:93:LEU:O	2.09	0.53
1:C1:26:A:C2	1:C1:600:U:O2	2.59	0.53
1:C1:115:G:H21	1:C1:334:G:N2	2.02	0.53
1:C1:129:U:C6	1:C1:264:G:C6	2.95	0.53
1:C1:138:A:C6	1:C1:142:G:C1'	2.92	0.53
1:C1:406:U:OP2	1:C1:406:U:C6	2.62	0.53
1:C1:488:G:C2	1:C1:489:C:O2	2.61	0.53
1:C1:868:G:H2'	1:C1:869:A:H5'	1.91	0.53
1:C1:1058:U:O2	1:C1:1060:U:H5'	2.08	0.53
1:C1:1137:A:H2	1:C1:1138:A:C5	2.26	0.53
1:C1:1142:A:H5'	1:C1:1142:A:C8	2.43	0.53
1:C1:1183:A:N6	1:C1:1184:A:N1	2.56	0.53
1:C1:1295:G:C1'	1:C1:1321:A:C2	2.91	0.53
1:C1:1332:C:O2'	1:C1:1333:C:O5'	2.25	0.53
1:C1:1348:A:C5	1:C1:1379:C:C4	2.96	0.53
1:C1:1374:C:C4	1:C1:1375:A:N1	2.77	0.53
1:C1:1391:A:C8	1:C1:1412:G:C6	2.96	0.53
1:C1:1419:G:C2'	1:C1:1420:C:O5'	2.57	0.53
1:C1:1534:G:H4'	1:C1:1536:G:O6	2.07	0.53
1:C1:1584:G:N3	1:C1:1585:U:OP1	2.41	0.53
2:CA:201:LEU:O	2:CA:202:TYR:CB	2.56	0.53
3:CB:147:ASN:C	3:CB:149:GLY:H	2.15	0.53
5:CD:163:SER:O	5:CD:165:LEU:N	2.41	0.53
14:CM:26:GLY:C	14:CM:28:LEU:H	2.15	0.53
14:CM:57:ARG:O	14:CM:58:ALA:CB	2.56	0.53
21:CT:42:LEU:O	21:CT:60:SER:HA	2.09	0.53
29:D1:9:U:O4	29:D1:10:C:C5	2.61	0.53
29:D1:22:G:O6	31:D3:36:G:C6	2.61	0.53
29:D1:48:A:C2	29:D1:50:U:O4	2.62	0.53
29:D1:342:A:C6	29:D1:368:G:C4	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:398:A:C2	29:D1:1415:U:H5”	2.43	0.53
29:D1:423:A:O2’	29:D1:424:G:O5’	2.26	0.53
29:D1:518:G:H1	29:D1:572:A:H61	1.55	0.53
29:D1:632:G:H2’	29:D1:633:C:O5’	2.08	0.53
29:D1:733:G:N2	29:D1:734:C:H2’	2.22	0.53
29:D1:767:U:OP2	29:D1:767:U:H6	1.91	0.53
29:D1:776:U:P	29:D1:777:U:OP2	2.66	0.53
29:D1:944:C:C5	29:D1:1431:G:C6	2.97	0.53
29:D1:966:U:H2’	29:D1:967:A:H8	1.70	0.53
29:D1:967:A:H5’	29:D1:968:G:OP2	2.08	0.53
29:D1:991:G:C4	29:D1:992:A:C8	2.97	0.53
29:D1:1130:A:H5’	29:D1:1130:A:C8	2.44	0.53
29:D1:1342:C:H3’	29:D1:1343:A:H8	1.73	0.53
29:D1:1399:A:N3	29:D1:1399:A:C2’	2.70	0.53
29:D1:1559:A:N6	29:D1:1579:C:H2’	2.22	0.53
29:D1:1561:G:O2’	29:D1:1562:C:H5’	2.09	0.53
29:D1:1659:U:C2	29:D1:1660:C:C5	2.97	0.53
29:D1:1845:G:C2’	29:D1:1846:C:OP1	2.55	0.53
29:D1:1912:U:N3	29:D1:1913:A:C2	2.76	0.53
29:D1:2144:A:C6	29:D1:2281:A:C2	2.97	0.53
29:D1:2198:A:O2’	29:D1:2199:G:H5’	2.08	0.53
29:D1:2218:G:C6	29:D1:2228:A:C6	2.96	0.53
29:D1:2270:A:C2	29:D1:2271:A:N3	2.77	0.53
29:D1:2929:C:C6	29:D1:2929:C:H3’	2.44	0.53
29:D1:3035:A:C6	29:D1:3036:G:C5	2.96	0.53
29:D1:3282:U:O2’	29:D1:3283:U:C5	2.62	0.53
30:D2:12:U:C4	30:D2:70:U:OP1	2.62	0.53
30:D2:14:U:OP2	30:D2:14:U:C1’	2.57	0.53
30:D2:33:U:O2	30:D2:33:U:C2’	2.55	0.53
30:D2:95:A:N3	30:D2:96:U:C6	2.77	0.53
31:D3:90:U:H3’	31:D3:90:U:P	2.49	0.53
33:DB:183:GLY:N	33:DB:185:ALA:H	2.06	0.53
36:DE:138:GLY:O	36:DE:139:PRO:CB	2.55	0.53
37:DF:120:ASN:O	37:DF:121:LEU:CB	2.57	0.53
38:DG:69:ALA:C	38:DG:71:ALA:N	2.66	0.53
38:DG:242:SER:O	38:DG:243:MET:CB	2.57	0.53
42:DK:156:LYS:C	42:DK:158:ASP:H	2.16	0.53
47:DR:125:ASP:O	47:DR:126:GLN:C	2.52	0.53
55:DZ:51:LEU:O	55:DZ:53:LYS:N	2.37	0.53
57:Db:121:ASN:O	57:Db:122:PRO:C	2.52	0.53
1:A1:15:U:O4’	1:A1:619:A:C2	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:72:A:C2	1:A1:73:U:C6	2.96	0.53
1:A1:222:A:N7	1:A1:223:U:C5	2.77	0.53
1:A1:475:A:H8	1:A1:475:A:OP2	1.92	0.53
1:A1:488:G:C2	1:A1:489:C:O2	2.61	0.53
1:A1:773:C:O2	1:A1:774:A:H8	1.91	0.53
1:A1:788:A:H5"	1:A1:789:A:O5'	2.08	0.53
1:A1:872:G:C2	1:A1:873:U:H1'	2.43	0.53
1:A1:966:A:O2'	1:A1:967:A:O5'	2.23	0.53
1:A1:1107:G:O2'	1:A1:1108:G:OP1	2.27	0.53
1:A1:1183:A:C6	1:A1:1184:A:N1	2.77	0.53
1:A1:1196:A:C4'	1:A1:1197:C:C5'	2.86	0.53
1:A1:1197:C:O2	1:A1:1197:C:C2'	2.56	0.53
1:A1:1370:U:N3	1:A1:1371:A:C8	2.77	0.53
1:A1:1491:U:H2'	1:A1:1492:A:H2'	1.91	0.53
1:A1:1561:U:H2'	1:A1:1562:G:H8	1.73	0.53
1:A1:1754:A:H2'	74:A1:1941:OHX:N1	2.22	0.53
2:AA:6:THR:C	2:AA:8:ASP:H	2.16	0.53
5:AD:59:VAL:HA	5:AD:62:VAL:CB	2.38	0.53
6:AE:73:GLY:C	6:AE:75:ALA:H	2.14	0.53
6:AE:100:LYS:O	6:AE:104:PHE:N	2.41	0.53
10:AI:11:VAL:C	10:AI:13:LYS:H	2.16	0.53
10:AI:68:PRO:HA	10:AI:69:GLU:C	2.32	0.53
13:AL:68:ARG:HA	13:AL:71:GLN:CB	2.38	0.53
17:AP:44:GLY:O	17:AP:45:GLY:C	2.52	0.53
17:AP:127:VAL:CA	17:AP:128:SER:C	2.81	0.53
29:B1:197:G:C4	29:B1:395:A:C8	2.97	0.53
29:B1:258:G:N2	29:B1:259:C:N1	2.57	0.53
29:B1:396:A:H8	29:B1:396:A:H5'	1.74	0.53
29:B1:739:G:C2'	29:B1:740:G:H8	2.20	0.53
29:B1:761:A:H61	29:B1:770:G:H22	1.56	0.53
29:B1:877:C:H6	29:B1:877:C:H3'	1.74	0.53
29:B1:980:A:N6	29:B1:1104:G:C8	2.64	0.53
29:B1:1024:G:C5	29:B1:1025:A:N7	2.77	0.53
29:B1:1199:C:N3	74:B1:3587:OHX:N6	2.57	0.53
29:B1:1202:A:C6	29:B1:1301:A:C4	2.96	0.53
29:B1:1289:G:H2'	29:B1:1290:A:O4'	2.09	0.53
29:B1:1289:G:N3	29:B1:1290:A:C8	2.77	0.53
29:B1:1744:G:O2'	29:B1:1745:C:H5'	2.08	0.53
29:B1:1780:G:C2	29:B1:1781:C:C4	2.96	0.53
29:B1:2252:A:C2	29:B1:2253:G:C4	2.97	0.53
29:B1:2423:U:H2'	29:B1:2424:A:H8	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2607:G:N1	29:B1:2608:G:C5	2.76	0.53
29:B1:2618:G:N2	29:B1:2644:C:O2'	2.41	0.53
29:B1:2730:G:C5	29:B1:2731:U:C5	2.96	0.53
29:B1:2735:U:O3'	49:BT:50:LYS:CB	2.56	0.53
29:B1:2833:A:C2	29:B1:2834:G:C8	2.97	0.53
29:B1:2850:G:H5"	29:B1:2850:G:C8	2.44	0.53
29:B1:2933:A:N6	29:B1:2934:A:C2	2.77	0.53
29:B1:2945:G:C8	29:B1:2979:U:O2	2.62	0.53
29:B1:2959:C:C5'	29:B1:2960:C:OP2	2.57	0.53
29:B1:2980:U:O2'	29:B1:2981:U:H5'	2.09	0.53
29:B1:2998:U:OP1	29:B1:3396:U:O4'	2.27	0.53
29:B1:3064:U:O2	29:B1:3065:G:C8	2.62	0.53
29:B1:3086:A:H2'	29:B1:3087:A:H8	1.73	0.53
29:B1:3141:A:C2	29:B1:3143:C:O3'	2.61	0.53
29:B1:3280:U:C2	29:B1:3281:U:C5	2.96	0.53
29:B1:3356:G:C2'	29:B1:3357:U:O5'	2.55	0.53
29:B1:3391:A:N1	29:B1:3392:U:C5	2.76	0.53
29:B1:3391:A:N3	29:B1:3392:U:C6	2.76	0.53
29:B1:3394:U:HO2'	29:B1:3395:G:H8	1.56	0.53
30:B2:14:U:HO2'	30:B2:15:C:C4'	2.22	0.53
30:B2:69:C:C2	30:B2:70:U:C5	2.96	0.53
30:B2:89:G:N2	30:B2:91:G:O5'	2.42	0.53
30:B2:113:C:H2'	30:B2:114:U:H6	1.74	0.53
31:B3:90:U:H3'	31:B3:90:U:OP2	2.09	0.53
31:B3:151:C:O5'	31:B3:151:C:H6	1.92	0.53
34:BC:111:SER:HA	34:BC:112:ASP:C	2.34	0.53
34:BC:192:VAL:O	34:BC:195:ALA:N	2.40	0.53
36:BE:138:GLY:O	36:BE:139:PRO:CB	2.56	0.53
37:BF:152:THR:HA	37:BF:156:LYS:CB	2.39	0.53
42:BK:84:LEU:O	42:BK:85:LYS:O	2.26	0.53
43:BN:48:GLY:C	43:BN:50:LYS:CA	2.80	0.53
44:BO:83:LYS:H	44:BO:84:PRO:C	2.15	0.53
44:BO:157:LYS:C	44:BO:159:ARG:N	2.66	0.53
48:BS:66:HIS:O	48:BS:68:GLN:N	2.41	0.53
58:Bc:4:VAL:HA	58:Bc:5:LYS:CB	2.39	0.53
1:C1:7:G:H4'	1:C1:573:C:H4'	1.90	0.53
1:C1:62:A:H1'	1:C1:63:G:P	2.48	0.53
1:C1:185:U:H2'	1:C1:186:C:O4'	2.09	0.53
1:C1:246:G:C6	1:C1:247:A:N3	2.75	0.53
1:C1:268:C:N3	1:C1:288:A:C2	2.76	0.53
1:C1:324:U:H5'	1:C1:324:U:H6	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:515:A:P	74:C1:1933:OHX:N4	2.82	0.53
1:C1:515:A:C2'	1:C1:516:G:OP1	2.55	0.53
1:C1:604:A:C6	1:C1:605:A:N1	2.76	0.53
1:C1:829:A:H1'	1:C1:830:U:C5'	2.39	0.53
1:C1:829:A:HO2'	1:C1:830:U:P	2.28	0.53
1:C1:1001:A:C8	1:C1:1002:G:N7	2.76	0.53
1:C1:1310:U:H2'	1:C1:1311:U:H6	1.73	0.53
1:C1:1379:C:H3'	1:C1:1380:U:H5'	1.89	0.53
1:C1:1400:A:C2	1:C1:1401:A:C4	2.97	0.53
1:C1:1473:U:O4'	1:C1:1473:U:O2	2.26	0.53
1:C1:1690:G:H1'	1:C1:1714:A:H2	1.74	0.53
8:CG:119:GLU:O	8:CG:121:ARG:N	2.42	0.53
9:CH:17:ALA:HB2	9:CH:30:VAL:CB	2.39	0.53
14:CM:62:ALA:C	14:CM:64:HIS:N	2.64	0.53
16:CO:112:ASP:O	16:CO:114:GLU:N	2.41	0.53
21:CT:173:GLY:C	21:CT:175:ASP:H	2.15	0.53
29:D1:26:A:C2'	29:D1:27:C:H6	2.20	0.53
29:D1:519:A:N6	37:DF:30:LEU:C	2.67	0.53
29:D1:556:U:C2'	29:D1:557:A:C1'	2.81	0.53
29:D1:869:G:H3'	29:D1:870:G:H8	1.73	0.53
29:D1:924:G:C8	29:D1:2809:C:O2	2.62	0.53
29:D1:964:G:C6	29:D1:965:A:C5	2.96	0.53
29:D1:1054:A:N3	29:D1:1054:A:C2'	2.69	0.53
29:D1:1077:U:C2	29:D1:1083:G:N2	2.76	0.53
29:D1:1126:G:C2	29:D1:1133:A:C2	2.97	0.53
29:D1:1339:C:C2	29:D1:1340:G:C8	2.97	0.53
29:D1:1394:A:C8	29:D1:1394:A:H3'	2.43	0.53
29:D1:1461:A:C2'	29:D1:1462:A:H8	2.20	0.53
29:D1:1845:G:H2'	29:D1:1846:C:OP1	2.08	0.53
29:D1:1879:A:H3'	29:D1:1879:A:P	2.49	0.53
29:D1:1884:A:C4	29:D1:1885:U:C2	2.97	0.53
29:D1:2160:G:O6	29:D1:2174:G:O6	2.27	0.53
29:D1:2196:C:C4	29:D1:2242:A:N7	2.76	0.53
29:D1:2353:G:N3	29:D1:2354:C:H6	2.06	0.53
29:D1:2356:A:N1	29:D1:2357:A:C4	2.76	0.53
29:D1:2694:A:H2'	29:D1:2695:A:C1'	2.38	0.53
29:D1:2925:C:C6	29:D1:2926:A:C8	2.97	0.53
29:D1:2990:G:H5'	34:DC:20:LYS:CB	2.38	0.53
29:D1:3003:G:N1	29:D1:3004:C:C4	2.76	0.53
29:D1:3012:A:C5	29:D1:3013:U:H5	2.26	0.53
29:D1:3101:G:C6	29:D1:3134:A:C2	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3225:C:C4	29:D1:3226:A:N6	2.76	0.53
29:D1:3330:A:H2'	29:D1:3331:U:O5'	2.09	0.53
30:D2:5:G:H3'	30:D2:6:C:H5"	1.90	0.53
30:D2:88:G:O6	30:D2:89:G:O6	2.25	0.53
30:D2:95:A:C2	30:D2:96:U:N3	2.77	0.53
31:D3:30:C:O2	31:D3:31:G:C8	2.62	0.53
31:D3:53:A:C5	31:D3:54:A:N7	2.77	0.53
33:DB:184:ARG:C	33:DB:186:PHE:N	2.65	0.53
35:DD:192:GLY:O	35:DD:193:LYS:C	2.51	0.53
38:DG:179:LEU:O	38:DG:180:SER:CB	2.57	0.53
41:DJ:53:VAL:H	41:DJ:164:LYS:CB	2.21	0.53
72:DL:131:GLU:O	72:DL:132:ILE:C	2.52	0.53
43:DN:34:ALA:O	43:DN:47:ASP:N	2.42	0.53
45:DP:112:TYR:O	45:DP:113:ASP:CB	2.56	0.53
46:DQ:85:ALA:O	46:DQ:88:VAL:N	2.41	0.53
55:DZ:68:TYR:O	55:DZ:69:TYR:C	2.51	0.53
1:A1:22:A:C2	1:A1:604:A:C2	2.96	0.53
1:A1:44:U:O5'	1:A1:45:U:C5	2.54	0.53
1:A1:85:A:H2	1:A1:148:A:N3	2.06	0.53
1:A1:129:U:C4	1:A1:264:G:C5	2.96	0.53
1:A1:282:C:C2'	1:A1:283:U:H5'	2.36	0.53
1:A1:387:A:H2'	1:A1:402:C:C6	2.43	0.53
1:A1:473:A:N6	1:A1:474:A:C2	2.77	0.53
1:A1:607:G:N7	1:A1:613:G:C5	2.76	0.53
1:A1:737:A:O2'	1:A1:738:G:OP2	2.27	0.53
1:A1:789:A:C4	1:A1:790:U:C5	2.96	0.53
1:A1:816:G:N7	1:A1:817:A:C4	2.77	0.53
1:A1:967:A:O2'	1:A1:968:U:H5'	2.09	0.53
1:A1:1056:U:C4	1:A1:1057:U:C2	2.96	0.53
1:A1:1110:G:O2'	1:A1:1111:G:O4'	2.24	0.53
1:A1:1149:G:N2	1:A1:1150:G:N7	2.56	0.53
1:A1:1155:G:C6	1:A1:1156:C:N4	2.77	0.53
1:A1:1198:G:H5"	1:A1:1199:G:H8	1.74	0.53
1:A1:1325:A:C2	1:A1:1326:A:N7	2.77	0.53
1:A1:1377:U:H2'	1:A1:1378:U:C3'	2.39	0.53
1:A1:1392:U:O2'	1:A1:1393:C:H5'	2.08	0.53
1:A1:1448:G:C2'	1:A1:1449:U:H5'	2.39	0.53
1:A1:1481:C:H1'	1:A1:1482:C:C5'	2.38	0.53
10:AI:92:SER:O	10:AI:106:GLU:HA	2.08	0.53
10:AI:116:LEU:C	10:AI:118:GLU:H	2.16	0.53
11:AJ:133:GLY:O	11:AJ:134:ALA:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AO:39:GLN:O	16:AO:40:VAL:C	2.50	0.53
23:Ab:107:UNK:O	23:Ab:109:UNK:N	2.41	0.53
29:B1:14:U:O5'	29:B1:14:U:O2	2.27	0.53
29:B1:252:U:H3'	29:B1:253:A:H5'	1.90	0.53
29:B1:295:A:N7	29:B1:296:A:C2	2.77	0.53
29:B1:397:A:N6	29:B1:400:G:N1	2.57	0.53
29:B1:543:C:H3'	29:B1:544:C:H5'	1.91	0.53
29:B1:596:C:C5	29:B1:609:G:H5'	2.43	0.53
29:B1:1075:A:C8	29:B1:1076:C:H6	2.23	0.53
29:B1:1170:A:OP2	74:B1:3537:OHX:N6	2.41	0.53
29:B1:1253:U:C2	29:B1:1264:G:H5"	2.43	0.53
29:B1:1287:A:H2'	29:B1:1288:U:H5'	1.86	0.53
29:B1:1294:A:C2'	29:B1:1295:G:O5'	2.55	0.53
29:B1:1330:A:N1	29:B1:1332:A:H1'	2.23	0.53
29:B1:1455:U:H3	29:B1:3077:A:P	2.30	0.53
29:B1:1528:G:C5	29:B1:1529:A:N7	2.77	0.53
29:B1:1548:C:H3'	29:B1:1549:U:O4'	2.09	0.53
29:B1:1559:A:N6	29:B1:1579:C:H2'	2.23	0.53
29:B1:2299:A:C6	29:B1:2300:G:N7	2.77	0.53
29:B1:2357:A:H8	29:B1:2357:A:O5'	1.92	0.53
29:B1:2407:C:H1'	29:B1:2818:U:O2	2.08	0.53
29:B1:2590:A:C5	29:B1:2591:A:C8	2.96	0.53
29:B1:2601:A:O2'	29:B1:2602:G:C5'	2.56	0.53
29:B1:2611:U:C2'	29:B1:2612:U:H6	2.17	0.53
29:B1:2727:A:H2	29:B1:2729:U:C5	2.25	0.53
29:B1:2833:A:H2'	29:B1:2833:A:N3	2.23	0.53
29:B1:2876:C:C2	29:B1:2952:G:C2	2.96	0.53
29:B1:3228:C:H3'	29:B1:3229:G:C8	2.43	0.53
29:B1:3325:G:H2'	29:B1:3326:G:C8	2.43	0.53
35:BD:101:ALA:C	35:BD:102:PRO:O	2.51	0.53
35:BD:238:LEU:O	35:BD:239:ALA:HB2	2.08	0.53
36:BE:111:GLN:H	36:BE:114:GLY:CA	2.22	0.53
36:BE:134:ALA:H	36:BE:135:VAL:HA	1.73	0.53
37:BF:40:LEU:CA	37:BF:85:ILE:HA	2.37	0.53
37:BF:115:GLU:O	37:BF:116:LYS:C	2.52	0.53
39:BH:158:ASP:CA	39:BH:159:PRO:C	2.80	0.53
50:BU:134:GLY:O	50:BU:135:VAL:O	2.27	0.53
62:Bg:23:ARG:O	62:Bg:24:ARG:C	2.52	0.53
1:C1:38:C:H3'	1:C1:39:A:H5"	1.89	0.53
1:C1:59:C:N4	1:C1:89:G:N3	2.57	0.53
1:C1:123:G:N1	1:C1:295:A:N6	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:195:G:C1’	1:C1:196:G:OP1	2.57	0.53
1:C1:452:A:N1	1:C1:454:U:OP2	2.42	0.53
1:C1:516:G:N3	1:C1:516:G:H2’	2.23	0.53
1:C1:549:G:N1	1:C1:550:A:C5	2.77	0.53
1:C1:758:U:H3’	1:C1:759:U:H6	1.74	0.53
1:C1:766:U:H5	1:C1:769:A:OP2	1.92	0.53
1:C1:1047:G:H2’	1:C1:1048:G:H8	1.73	0.53
1:C1:1124:A:N1	1:C1:1125:A:C2	2.77	0.53
1:C1:1150:G:C5	1:C1:1766:A:OP1	2.62	0.53
1:C1:1150:G:H5’	1:C1:1765:A:N3	2.23	0.53
1:C1:1268:G:O2’	1:C1:1269:U:H3’	2.08	0.53
1:C1:1390:U:O4’	1:C1:1413:U:C2	2.61	0.53
1:C1:1466:G:C5	1:C1:1467:C:C4	2.96	0.53
4:CC:64:ARG:O	4:CC:68:GLU:CB	2.56	0.53
7:CF:93:TYR:O	7:CF:94:ILE:CB	2.56	0.53
25:Cd:106:UNK:O	25:Cd:109:UNK:CB	2.56	0.53
29:D1:29:C:C6	29:D1:29:C:C3’	2.91	0.53
29:D1:55:G:O2’	29:D1:56:G:P	2.66	0.53
29:D1:245:U:O2	29:D1:245:U:O4’	2.27	0.53
29:D1:269:G:N1	29:D1:294:U:H5	2.05	0.53
29:D1:282:G:N3	29:D1:286:U:H5’	2.24	0.53
29:D1:414:U:H2’	29:D1:415:G:C8	2.33	0.53
29:D1:420:G:N2	29:D1:2384:A:C4	2.76	0.53
29:D1:516:A:C6	29:D1:517:G:C6	2.97	0.53
29:D1:547:G:C8	29:D1:548:G:C8	2.96	0.53
29:D1:549:U:O2’	29:D1:550:A:O5’	2.21	0.53
29:D1:645:A:C6	29:D1:649:A:N7	2.76	0.53
29:D1:839:C:H2’	29:D1:840:C:C6	2.43	0.53
29:D1:1007:U:O2	29:D1:1007:U:H2’	2.07	0.53
29:D1:1250:G:C2	29:D1:1251:A:C2	2.96	0.53
29:D1:1394:A:C2’	29:D1:1395:G:O5’	2.56	0.53
29:D1:1468:A:HO2’	29:D1:1469:C:P	2.31	0.53
29:D1:1493:G:N3	29:D1:1493:G:O4’	2.41	0.53
29:D1:1495:U:O3’	29:D1:1514:G:H5’	2.09	0.53
29:D1:1716:U:O2	29:D1:1716:U:C2’	2.57	0.53
29:D1:1779:C:OP2	29:D1:1780:G:C8	2.61	0.53
29:D1:1902:G:P	29:D1:2918:G:H5’	2.48	0.53
29:D1:2282:U:O2’	29:D1:2283:G:C5’	2.56	0.53
29:D1:2288:G:C6	29:D1:2289:U:O4	2.62	0.53
29:D1:2290:C:C2	29:D1:2291:A:C8	2.95	0.53
29:D1:2420:C:C4	29:D1:2421:U:C4	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2530:G:O2'	29:D1:2531:C:P	2.67	0.53
29:D1:2599:U:C2	29:D1:2600:C:C5	2.97	0.53
29:D1:2607:G:C6	29:D1:2608:G:C5	2.96	0.53
29:D1:2883:U:O5'	29:D1:2883:U:H6	1.90	0.53
29:D1:2968:G:O2'	29:D1:2969:A:H5'	2.09	0.53
29:D1:3175:U:O2	29:D1:3175:U:O4'	2.26	0.53
29:D1:3184:A:H2'	29:D1:3187:A:O2'	2.08	0.53
29:D1:3228:C:C2'	29:D1:3229:G:C8	2.92	0.53
29:D1:3242:G:C2'	29:D1:3246:G:H22	2.22	0.53
29:D1:3296:A:C2	29:D1:3297:U:C6	2.96	0.53
30:D2:5:G:C3'	30:D2:6:C:H5"	2.39	0.53
30:D2:28:C:O2	30:D2:28:C:C2'	2.56	0.53
30:D2:48:U:H2'	30:D2:49:G:N7	2.23	0.53
31:D3:3:A:H2'	31:D3:4:C:C5'	2.39	0.53
34:DC:51:ALA:HB3	34:DC:79:VAL:HA	1.88	0.53
41:DJ:170:LYS:CB	41:DJ:171:TRP:C	2.82	0.53
44:DO:83:LYS:N	44:DO:85:THR:N	2.55	0.53
44:DO:108:ARG:C	44:DO:110:ALA:N	2.66	0.53
47:DR:103:ALA:O	47:DR:104:LEU:C	2.50	0.53
49:DT:100:LYS:C	49:DT:102:ARG:N	2.67	0.53
57:Db:120:THR:C	57:Db:122:PRO:N	2.64	0.53
59:Dd:59:THR:O	59:Dd:61:THR:N	2.40	0.53
61:Df:77:CYS:C	61:Df:79:THR:H	2.17	0.53
1:A1:8:U:O2'	74:A1:1976:OHX:N5	2.41	0.53
1:A1:89:G:C4	1:A1:90:C:C6	2.96	0.53
1:A1:195:G:O2'	1:A1:196:G:C5'	2.57	0.53
1:A1:606:A:N7	1:A1:608:U:C5	2.63	0.53
1:A1:659:C:H4'	1:A1:660:G:O5'	2.08	0.53
1:A1:800:U:H2'	1:A1:801:G:C8	2.43	0.53
1:A1:824:G:C6	1:A1:850:A:N3	2.77	0.53
1:A1:887:A:H5"	1:A1:888:U:OP2	2.08	0.53
1:A1:1075:C:N4	1:A1:1076:A:C6	2.77	0.53
1:A1:1204:A:H5'	1:A1:1205:C:H5"	1.90	0.53
1:A1:1209:C:C2	1:A1:1210:C:C5	2.96	0.53
1:A1:1294:G:H2'	1:A1:1295:G:O4'	2.09	0.53
1:A1:1489:U:C5	1:A1:1513:G:C2	2.96	0.53
1:A1:1684:U:H3'	1:A1:1685:G:C5'	2.38	0.53
1:A1:1750:A:C5	1:A1:1751:C:C4	2.96	0.53
3:AB:83:ILE:HA	3:AB:100:ALA:CB	2.38	0.53
5:AD:128:ASN:O	5:AD:130:ILE:N	2.42	0.53
16:AO:88:LYS:C	16:AO:90:THR:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:279:U:O2	29:B1:280:U:C2	2.62	0.53
29:B1:287:G:C4	29:B1:288:C:C6	2.97	0.53
29:B1:385:A:C2	29:B1:386:A:C4	2.97	0.53
29:B1:517:G:OP2	29:B1:518:G:OP2	2.27	0.53
29:B1:597:G:C6	29:B1:607:A:N1	2.77	0.53
29:B1:637:C:C2	29:B1:638:C:C4	2.97	0.53
29:B1:719:U:O4'	29:B1:719:U:O2	2.25	0.53
29:B1:773:G:O2'	29:B1:774:G:H5'	2.08	0.53
29:B1:806:A:C2	29:B1:807:A:C2	2.97	0.53
29:B1:815:G:N1	29:B1:906:A:C2	2.77	0.53
29:B1:1145:G:N7	29:B1:1146:C:C5	2.76	0.53
29:B1:1199:C:H4'	29:B1:1200:A:OP2	2.08	0.53
29:B1:1260:A:C4	29:B1:1279:C:H1'	2.44	0.53
29:B1:1399:A:N6	31:B3:7:U:O2'	2.41	0.53
29:B1:1422:G:C4	29:B1:1423:C:C6	2.97	0.53
29:B1:1683:A:N7	29:B1:1684:U:C4	2.77	0.53
29:B1:1724:U:H2'	29:B1:1725:C:H6	1.73	0.53
29:B1:1748:G:N1	29:B1:1749:A:N6	2.57	0.53
29:B1:1933:A:C8	29:B1:1934:G:C8	2.96	0.53
29:B1:2141:U:O2	29:B1:2956:A:C6	2.61	0.53
29:B1:2255:A:C4'	29:B1:2256:A:OP1	2.56	0.53
29:B1:2271:A:C3'	29:B1:2272:G:C5'	2.86	0.53
29:B1:2561:A:C8	29:B1:2561:A:P	3.02	0.53
29:B1:2701:U:H1'	29:B1:2705:A:C4	2.44	0.53
29:B1:2778:G:O6	29:B1:2779:A:N6	2.41	0.53
29:B1:2912:G:C1'	29:B1:3131:U:H5'	2.39	0.53
29:B1:3014:U:O2'	29:B1:3015:G:H5'	2.09	0.53
29:B1:3083:G:H2'	29:B1:3084:C:O4'	2.08	0.53
29:B1:3104:U:C2	29:B1:3129:A:N7	2.77	0.53
29:B1:3153:U:H5"	29:B1:3293:U:H6	1.73	0.53
31:B3:35:C:O2'	31:B3:36:G:H5'	2.08	0.53
31:B3:43:A:H4'	59:Bd:22:CYS:HA	1.91	0.53
31:B3:125:U:C2	74:B3:206:OHX:N2	2.76	0.53
33:BB:18:SER:O	33:BB:20:THR:N	2.41	0.53
33:BB:172:GLY:O	33:BB:174:ARG:N	2.42	0.53
35:BD:273:GLY:C	35:BD:275:THR:H	2.17	0.53
41:BJ:94:PHE:O	41:BJ:126:ALA:O	2.27	0.53
44:BO:26:ARG:O	44:BO:29:GLU:N	2.41	0.53
52:BW:61:LYS:CB	52:BW:62:VAL:HA	2.38	0.53
54:BY:27:LYS:O	54:BY:29:PRO:N	2.42	0.53
54:BY:111:LYS:CA	54:BY:128:ARG:CB	2.80	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:15:U:O2'	1:C1:16:G:H5'	2.08	0.53
1:C1:62:A:C2	1:C1:63:G:C5	2.97	0.53
1:C1:178:U:O4'	1:C1:178:U:OP1	2.26	0.53
1:C1:184:C:C5	1:C1:202:A:H2	2.26	0.53
1:C1:239:C:H1'	1:C1:240:U:C5	2.43	0.53
1:C1:243:G:H4'	1:C1:243:G:OP1	2.09	0.53
1:C1:339:C:H2'	1:C1:340:U:C6	2.41	0.53
1:C1:607:G:C5'	1:C1:613:G:N2	2.71	0.53
1:C1:652:G:O6	1:C1:683:C:N3	2.42	0.53
1:C1:869:A:C5	1:C1:870:C:C5	2.96	0.53
1:C1:1207:C:N3	1:C1:1208:A:N6	2.56	0.53
1:C1:1334:U:C2	1:C1:1335:U:C5	2.97	0.53
1:C1:1404:C:H2'	1:C1:1405:G:C8	2.44	0.53
1:C1:1559:A:H1'	13:CL:135:GLY:HA2	1.90	0.53
1:C1:1612:U:C4	1:C1:1613:U:H6	2.27	0.53
1:C1:1682:U:C2	1:C1:1683:C:C5	2.96	0.53
1:C1:1720:G:C4	1:C1:1721:A:C8	2.97	0.53
1:C1:1784:C:C2	1:C1:1785:U:C5	2.96	0.53
3:CB:62:PRO:HA	3:CB:63:VAL:CB	2.39	0.53
17:CP:127:VAL:CB	17:CP:129:GLY:N	2.71	0.53
21:CT:33:LEU:O	21:CT:44:SER:HA	2.08	0.53
23:Cb:75:UNK:O	23:Cb:76:UNK:C	2.56	0.53
29:D1:48:A:C4	29:D1:50:U:C4	2.97	0.53
29:D1:252:U:H3'	29:D1:253:A:H5'	1.90	0.53
29:D1:331:G:N1	29:D1:332:C:C4	2.77	0.53
29:D1:354:U:O2	29:D1:354:U:C2'	2.54	0.53
29:D1:423:A:H61	29:D1:637:C:P	2.31	0.53
29:D1:510:G:C2	29:D1:511:G:C4	2.97	0.53
29:D1:534:U:OP2	29:D1:555:U:N3	2.41	0.53
29:D1:563:U:C6	29:D1:564:G:H5"	2.43	0.53
29:D1:692:A:H2'	29:D1:693:A:H8	1.74	0.53
29:D1:715:A:H3'	54:DY:115:LYS:CB	2.39	0.53
29:D1:934:G:C5	29:D1:935:U:C5	2.96	0.53
29:D1:945:C:H2'	29:D1:946:U:C6	2.44	0.53
29:D1:1080:A:C5	29:D1:1082:U:H5"	2.43	0.53
29:D1:1168:U:H2'	29:D1:1169:A:H5'	1.90	0.53
29:D1:1168:U:C2	29:D1:1332:A:C2	2.97	0.53
29:D1:1180:A:C6	29:D1:1182:A:N7	2.77	0.53
29:D1:1262:G:N7	29:D1:1264:G:C4	2.76	0.53
29:D1:1327:C:O2'	29:D1:1328:C:H5'	2.09	0.53
29:D1:1337:A:C4	29:D1:1338:C:C6	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1342:C:O2	29:D1:1342:C:C2'	2.53	0.53
29:D1:1412:G:H2'	29:D1:1413:G:C8	2.44	0.53
29:D1:1491:A:H2'	29:D1:1492:G:O4'	2.08	0.53
29:D1:1695:U:O2'	29:D1:1749:A:N1	2.28	0.53
29:D1:1864:A:OP1	48:DS:83:GLY:N	2.42	0.53
29:D1:1868:G:C6	29:D1:1869:C:C4	2.97	0.53
29:D1:2260:U:H4'	29:D1:2261:G:OP2	2.07	0.53
29:D1:2374:C:C4	29:D1:2941:A:N3	2.77	0.53
29:D1:2405:C:O2	29:D1:2406:C:C6	2.62	0.53
29:D1:2614:G:N3	29:D1:2797:C:C6	2.76	0.53
29:D1:2672:G:O2'	42:DK:106:ILE:CB	2.57	0.53
29:D1:2836:C:C5	29:D1:2853:A:C2	2.97	0.53
29:D1:2881:C:H2'	29:D1:2882:U:H6	1.74	0.53
29:D1:2892:A:O4'	29:D1:3130:A:C8	2.61	0.53
29:D1:2992:U:H6	29:D1:2992:U:H5"	1.73	0.53
29:D1:3024:A:H3'	29:D1:3025:C:C6	2.43	0.53
29:D1:3113:A:H2	29:D1:3122:A:C4	2.25	0.53
29:D1:3121:U:C4'	29:D1:3122:A:H5'	2.39	0.53
29:D1:3137:C:H3'	29:D1:3138:U:H6	1.74	0.53
29:D1:3196:U:C5	29:D1:3198:U:C6	2.93	0.53
29:D1:3288:G:N7	74:D1:3524:OHX:N2	2.57	0.53
29:D1:3314:A:H2'	34:DC:119:TYR:H	1.68	0.53
29:D1:3321:C:N3	29:D1:3322:A:N7	2.57	0.53
30:D2:11:A:C5'	30:D2:13:A:H2'	2.39	0.53
30:D2:117:A:H2'	30:D2:118:A:H5'	1.91	0.53
31:D3:4:C:H2'	31:D3:5:U:C5'	2.39	0.53
31:D3:17:A:C4	31:D3:18:U:C6	2.97	0.53
31:D3:67:U:OP2	31:D3:67:U:H6	1.91	0.53
31:D3:80:A:N3	31:D3:81:U:N3	2.56	0.53
31:D3:144:G:H2'	31:D3:145:U:H5'	1.88	0.53
35:DD:84:ARG:CB	35:DD:85:SER:HA	2.38	0.53
37:DF:60:ASP:O	37:DF:61:ASN:CB	2.56	0.53
41:DJ:151:GLY:O	41:DJ:152:LEU:C	2.51	0.53
72:DL:123:ARG:O	72:DL:124:THR:O	2.27	0.53
45:DP:124:LEU:CB	45:DP:128:ARG:H	2.20	0.53
56:Da:58:ALA:O	56:Da:59:ILE:C	2.52	0.53
60:De:7:PHE:HA	60:De:10:LYS:CB	2.38	0.53
1:A1:143:G:C3'	1:A1:144:U:H4'	2.38	0.53
1:A1:215:A:N7	1:A1:216:U:C4	2.77	0.53
1:A1:559:C:H2'	1:A1:560:U:C6	2.44	0.53
1:A1:595:G:H2'	1:A1:596:C:H6	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:620:A:C4	1:A1:621:A:C2	2.97	0.53
1:A1:652:G:H5'	1:A1:653:C:OP2	2.09	0.53
1:A1:703:G:H1'	1:A1:736:C:H42	1.74	0.53
1:A1:988:A:C2	1:A1:989:U:C1'	2.92	0.53
1:A1:1066:C:H2'	1:A1:1067:C:H5'	1.90	0.53
1:A1:1107:G:O2'	1:A1:1108:G:O5'	2.27	0.53
1:A1:1128:C:H2'	1:A1:1129:U:O4'	2.09	0.53
1:A1:1336:A:C5'	1:A1:1337:A:OP2	2.56	0.53
1:A1:1348:A:C3'	1:A1:1349:G:H5"	2.37	0.53
1:A1:1379:C:C2'	1:A1:1380:U:H5'	2.38	0.53
1:A1:1398:U:H4'	1:A1:1399:C:C5	2.44	0.53
2:AA:203:PHE:O	2:AA:205:ARG:N	2.42	0.53
4:AC:151:LYS:O	4:AC:152:PHE:CB	2.56	0.53
5:AD:212:LYS:C	5:AD:214:LYS:N	2.63	0.53
5:AD:220:VAL:C	5:AD:222:LYS:H	2.16	0.53
7:AF:129:ARG:O	7:AF:130:PRO:C	2.51	0.53
22:Aa:12:UNK:O	22:Aa:13:UNK:C	2.56	0.53
24:Ac:54:UNK:HA	24:Ac:63:UNK:H2	1.68	0.53
29:B1:197:G:H8	29:B1:197:G:OP1	1.91	0.53
29:B1:547:G:H8	29:B1:548:G:C5	2.26	0.53
29:B1:588:G:H4'	29:B1:589:A:H62	1.74	0.53
29:B1:607:A:C2	29:B1:608:A:N9	2.77	0.53
29:B1:734:C:H5"	29:B1:735:A:C2	2.44	0.53
29:B1:762:U:O4	74:B1:3479:OHX:N3	2.42	0.53
29:B1:802:C:H2'	29:B1:803:C:C6	2.44	0.53
29:B1:815:G:C2	29:B1:906:A:C2	2.96	0.53
29:B1:943:U:O2'	29:B1:944:C:OP1	2.25	0.53
29:B1:1080:A:C2	29:B1:1082:U:O5'	2.62	0.53
29:B1:1156:C:H2'	29:B1:1157:G:H5"	1.90	0.53
29:B1:1237:G:H5"	29:B1:1238:C:O4'	2.09	0.53
29:B1:1280:C:C2'	29:B1:1281:G:H8	2.19	0.53
29:B1:1295:G:C2'	29:B1:1296:C:H5'	2.38	0.53
29:B1:1507:G:OP2	29:B1:1507:G:O4'	2.27	0.53
29:B1:1685:C:C5	29:B1:1687:U:C4	2.97	0.53
29:B1:1843:C:C2'	29:B1:1844:C:H5'	2.38	0.53
29:B1:1890:U:C2	29:B1:1891:A:C8	2.97	0.53
29:B1:2131:A:C3'	29:B1:2132:C:H5"	2.38	0.53
29:B1:2135:U:N3	29:B1:2136:C:C5	2.77	0.53
29:B1:2269:U:H2'	29:B1:2270:A:H5'	1.90	0.53
29:B1:2270:A:O2'	29:B1:2271:A:H5'	2.08	0.53
29:B1:2420:C:N4	29:B1:2421:U:C4	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2544:U:H2'	29:B1:2545:C:H6	1.74	0.53
29:B1:2852:C:H5	29:B1:2853:A:C5	2.27	0.53
29:B1:3034:C:H6	29:B1:3034:C:H3'	1.73	0.53
29:B1:3039:C:H2'	29:B1:3040:A:H8	1.74	0.53
29:B1:3110:C:C2	29:B1:3111:U:C5	2.96	0.53
29:B1:3202:G:N2	29:B1:3203:U:O2	2.41	0.53
29:B1:3242:G:H2'	29:B1:3242:G:N3	2.22	0.53
29:B1:3260:G:O6	29:B1:3261:C:H1'	2.08	0.53
29:B1:3393:U:H2'	29:B1:3394:U:O4'	2.09	0.53
30:B2:11:A:O4'	30:B2:13:A:C2'	2.53	0.53
30:B2:47:C:O2	30:B2:48:U:C4	2.62	0.53
31:B3:11:C:H2'	31:B3:12:A:O4'	2.08	0.53
31:B3:56:G:C2	31:B3:57:C:C6	2.97	0.53
35:BD:234:ASN:C	35:BD:236:LEU:N	2.66	0.53
38:BG:144:ILE:O	38:BG:145:ARG:C	2.49	0.53
41:BJ:219:ALA:C	41:BJ:221:ALA:H	2.17	0.53
44:BO:109:ARG:O	44:BO:110:ALA:HB2	2.09	0.53
61:Bf:76:LYS:C	61:Bf:78:LYS:N	2.66	0.53
1:C1:15:U:C1'	1:C1:619:A:C2	2.92	0.53
1:C1:100:A:H2'	1:C1:101:U:O4'	2.09	0.53
1:C1:387:A:N3	1:C1:402:C:H5	2.07	0.53
1:C1:690:G:C2'	1:C1:691:C:H5'	2.35	0.53
1:C1:716:C:N4	1:C1:723:G:C6	2.77	0.53
1:C1:895:G:O2'	9:CH:38:THR:CB	2.56	0.53
1:C1:932:U:H4'	1:C1:933:A:O4'	2.09	0.53
1:C1:965:U:O2'	1:C1:966:A:OP1	2.24	0.53
1:C1:1142:A:C2	1:C1:1143:A:N3	2.77	0.53
1:C1:1203:A:C2	1:C1:1555:A:C2	2.97	0.53
1:C1:1295:G:O4'	1:C1:1321:A:C2	2.62	0.53
1:C1:1331:A:H2'	1:C1:1332:C:C5'	2.38	0.53
1:C1:1342:C:O2'	1:C1:1343:U:H5'	2.08	0.53
1:C1:1537:C:C5'	1:C1:1538:U:OP1	2.57	0.53
1:C1:1553:G:H5"	1:C1:1554:U:OP2	2.08	0.53
1:C1:1598:U:C4	1:C1:1599:C:H5	2.27	0.53
1:C1:1650:U:C2'	1:C1:1651:A:H8	2.21	0.53
15:CN:119:ALA:HB1	15:CN:120:SER:HA	1.91	0.53
17:CP:129:GLY:O	17:CP:130:VAL:CB	2.56	0.53
29:D1:226:C:H4'	53:DX:29:VAL:O	2.09	0.53
29:D1:258:G:H1'	29:D1:259:C:H5'	1.91	0.53
29:D1:386:A:H2'	29:D1:387:A:O5'	2.09	0.53
29:D1:422:A:H3'	29:D1:2364:G:H5"	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:515:C:C2’	29:D1:516:A:H5”	2.39	0.53
29:D1:547:G:H8	29:D1:548:G:N7	2.07	0.53
29:D1:556:U:C5	29:D1:557:A:C2	2.97	0.53
29:D1:595:G:H8	29:D1:595:G:H3’	1.74	0.53
29:D1:749:C:N3	29:D1:750:G:N7	2.57	0.53
29:D1:887:G:C6	29:D1:888:A:C5	2.97	0.53
29:D1:960:U:C2’	29:D1:961:C:O4’	2.56	0.53
29:D1:1129:A:N6	29:D1:1130:A:C6	2.76	0.53
29:D1:1146:C:H4’	29:D1:1331:U:C5	2.43	0.53
29:D1:1313:G:H2’	29:D1:1314:C:C6	2.35	0.53
29:D1:1371:G:H8	29:D1:1371:G:H5”	1.74	0.53
29:D1:1388:U:H2’	29:D1:1389:G:H8	1.73	0.53
29:D1:1725:C:H2’	29:D1:1726:C:H6	1.70	0.53
29:D1:1798:A:C2	29:D1:1799:A:C5	2.96	0.53
29:D1:2137:U:N3	29:D1:2141:U:C5	2.76	0.53
29:D1:2259:A:H5”	29:D1:2260:U:C5	2.43	0.53
29:D1:2414:G:H2’	29:D1:2415:C:H6	1.74	0.53
29:D1:2515:A:H3’	29:D1:2516:U:H5	1.74	0.53
29:D1:2713:U:H3’	61:Df:9:LYS:O	2.09	0.53
29:D1:3000:A:C2	29:D1:3149:G:C6	2.97	0.53
29:D1:3271:G:C4	29:D1:3271:G:C3’	2.88	0.53
30:D2:26:C:O2’	30:D2:27:A:P	2.66	0.53
34:DC:222:LYS:O	34:DC:271:GLY:C	2.52	0.53
35:DD:215:ILE:C	35:DD:217:LYS:N	2.63	0.53
38:DG:148:VAL:O	38:DG:150:LYS:N	2.41	0.53
41:DJ:69:ARG:O	41:DJ:70:ILE:O	2.27	0.53
42:DK:10:ARG:O	42:DK:11:ASP:CB	2.56	0.53
42:DK:143:ARG:O	42:DK:144:CYS:C	2.51	0.53
43:DN:70:PHE:O	43:DN:72:LEU:N	2.42	0.53
44:DO:108:ARG:O	44:DO:110:ALA:N	2.42	0.53
45:DP:185:ALA:O	45:DP:186:ALA:HB3	2.07	0.53
51:DV:41:LYS:O	51:DV:43:ARG:N	2.42	0.53
56:Da:19:ARG:C	56:Da:21:HIS:H	2.16	0.53
62:Dg:15:GLY:O	62:Dg:17:ARG:N	2.38	0.53
1:A1:23:G:C5	1:A1:24:U:C4	2.97	0.53
1:A1:50:C:C4	1:A1:424:C:C6	2.97	0.53
1:A1:59:C:C4	1:A1:62:A:N6	2.75	0.53
1:A1:207:U:H3	1:A1:258:C:H42	1.57	0.53
1:A1:302:U:N3	1:A1:303:U:O2	2.42	0.53
1:A1:430:G:H2’	1:A1:431:C:H6	1.74	0.53
1:A1:544:A:C8	1:A1:544:A:OP1	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:613:G:H4'	1:A1:614:C:O5'	2.09	0.53
1:A1:624:G:C8	1:A1:1027:A:C6	2.97	0.53
1:A1:652:G:O6	1:A1:683:C:N3	2.41	0.53
1:A1:760:A:N6	1:A1:761:G:C2	2.76	0.53
1:A1:866:G:N2	1:A1:965:U:C5	2.76	0.53
1:A1:1124:A:N6	1:A1:1125:A:C6	2.77	0.53
1:A1:1292:G:H2'	1:A1:1293:U:H6	1.73	0.53
1:A1:1469:A:C6	1:A1:1470:C:N4	2.77	0.53
1:A1:1503:A:N1	10:AI:13:LYS:HA	2.23	0.53
1:A1:1689:A:N3	1:A1:1689:A:C2'	2.72	0.53
1:A1:1720:G:H2'	1:A1:1721:A:H8	1.72	0.53
2:AA:17:LEU:O	2:AA:20:ALA:N	2.29	0.53
6:AE:131:GLN:O	6:AE:133:HIS:N	2.38	0.53
21:AT:92:TRP:HA	21:AT:100:TYR:H	1.73	0.53
23:Ab:59:UNK:C	23:Ab:61:UNK:N	2.72	0.53
29:B1:9:U:O4	29:B1:10:C:C5	2.62	0.53
29:B1:11:A:C2	31:B3:148:G:N1	2.77	0.53
29:B1:42:C:C2'	29:B1:43:A:C5'	2.69	0.53
29:B1:97:U:C6	29:B1:97:U:C5'	2.92	0.53
29:B1:206:G:C5	29:B1:207:U:C5	2.97	0.53
29:B1:232:G:C6	29:B1:233:C:C4	2.96	0.53
29:B1:303:G:C2	29:B1:313:A:C2	2.97	0.53
29:B1:363:G:C3'	29:B1:364:G:C5'	2.85	0.53
29:B1:607:A:H8	29:B1:607:A:P	2.31	0.53
29:B1:729:C:H6	29:B1:729:C:O5'	1.92	0.53
29:B1:845:G:H2'	29:B1:846:A:O5'	2.09	0.53
29:B1:862:U:O2'	29:B1:863:C:H5'	2.09	0.53
29:B1:869:G:H3'	29:B1:870:G:H8	1.74	0.53
29:B1:914:A:H8	29:B1:914:A:P	2.32	0.53
29:B1:1040:A:N6	29:B1:1041:U:C5	2.77	0.53
29:B1:1150:A:C2'	29:B1:1151:U:O5'	2.57	0.53
29:B1:1218:U:C2'	29:B1:1219:C:C5'	2.86	0.53
29:B1:1289:G:C4'	29:B1:1290:A:OP1	2.48	0.53
29:B1:1348:U:O2'	29:B1:1349:G:OP2	2.27	0.53
29:B1:2270:A:C2'	29:B1:2271:A:C8	2.89	0.53
29:B1:2291:A:C2	29:B1:2292:U:C2	2.97	0.53
29:B1:2308:C:OP1	29:B1:2309:A:C2'	2.57	0.53
29:B1:2572:C:C6	74:B1:3558:OHX:N5	2.77	0.53
29:B1:2629:U:C2	29:B1:2630:C:C5	2.97	0.53
29:B1:2655:U:H2'	61:Bf:3:ASN:O	2.09	0.53
29:B1:2780:A:C2	29:B1:2781:U:N3	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2834:G:N3	29:B1:2835:U:C5	2.76	0.53
29:B1:2904:U:O2	29:B1:2905:U:C6	2.62	0.53
29:B1:3025:C:C2'	29:B1:3026:G:H5'	2.39	0.53
29:B1:3088:G:H3'	29:B1:3089:C:C6	2.44	0.53
29:B1:3091:A:O2'	29:B1:3092:C:P	2.66	0.53
29:B1:3207:U:C3'	29:B1:3208:G:H5'	2.39	0.53
29:B1:3213:A:O2'	29:B1:3214:U:C5	2.62	0.53
29:B1:3282:U:HO2'	29:B1:3283:U:H5	1.49	0.53
30:B2:5:G:H3'	30:B2:6:C:H5"	1.91	0.53
31:B3:93:U:O3'	31:B3:94:C:O4'	2.27	0.53
35:BD:8:VAL:N	35:BD:18:ASN:O	2.42	0.53
36:BE:188:GLU:CB	36:BE:189:GLU:CA	2.87	0.53
38:BG:85:PHE:O	38:BG:86:VAL:C	2.50	0.53
42:BK:84:LEU:HA	42:BK:89:TYR:N	2.23	0.53
42:BK:156:LYS:C	42:BK:158:ASP:H	2.16	0.53
43:BN:62:GLN:O	43:BN:63:VAL:O	2.27	0.53
45:BP:95:GLY:O	45:BP:97:ALA:C	2.52	0.53
49:BT:80:VAL:O	49:BT:81:GLY:O	2.27	0.53
54:BY:72:VAL:C	54:BY:74:ASN:N	2.67	0.53
1:C1:77:U:H3'	1:C1:78:A:H5"	1.90	0.53
1:C1:103:A:C5	1:C1:360:A:C2	2.97	0.53
1:C1:130:C:C5	1:C1:131:C:H1'	2.44	0.53
1:C1:546:U:H6	1:C1:546:U:O5'	1.92	0.53
1:C1:557:G:OP1	1:C1:558:U:O4'	2.27	0.53
1:C1:647:G:N2	1:C1:687:G:C2	2.77	0.53
1:C1:651:G:N7	74:C1:1970:OHX:N3	2.57	0.53
1:C1:702:G:H5'	1:C1:703:G:OP2	2.08	0.53
1:C1:819:G:N1	1:C1:853:G:N2	2.56	0.53
1:C1:899:G:N2	1:C1:915:A:C2	2.76	0.53
1:C1:1046:G:C2	1:C1:1047:G:C8	2.97	0.53
1:C1:1056:U:C4	1:C1:1057:U:C2	2.97	0.53
1:C1:1259:U:C2'	1:C1:1260:U:O5'	2.57	0.53
1:C1:1263:G:C4	1:C1:1264:G:C8	2.97	0.53
1:C1:1416:G:H2'	1:C1:1417:A:O4'	2.09	0.53
1:C1:1469:A:C6	1:C1:1470:C:N4	2.77	0.53
1:C1:1538:U:H2'	1:C1:1539:G:H3'	1.91	0.53
1:C1:1543:A:C8	1:C1:1569:A:N6	2.76	0.53
1:C1:1720:G:O4'	1:C1:1720:G:P	2.67	0.53
1:C1:1777:G:C4	1:C1:1778:G:C8	2.97	0.53
3:CB:65:GLU:O	3:CB:66:PHE:CB	2.55	0.53
4:CC:69:LEU:O	4:CC:70:THR:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CE:179:ARG:C	6:CE:181:ALA:H	2.17	0.53
14:CM:63:ARG:C	14:CM:65:ILE:H	2.17	0.53
15:CN:58:LEU:O	15:CN:59:PRO:CB	2.55	0.53
17:CP:109:ARG:H	17:CP:110:LYS:CA	2.12	0.53
29:D1:13:A:H2	29:D1:15:C:H2'	1.74	0.53
29:D1:69:C:O2	29:D1:69:C:C2'	2.57	0.53
29:D1:115:A:C4	29:D1:116:A:N1	2.77	0.53
29:D1:151:A:H2'	29:D1:152:U:H5	1.73	0.53
29:D1:154:U:OP1	29:D1:156:G:O6	2.27	0.53
29:D1:389:A:H2'	29:D1:390:G:O4'	2.08	0.53
29:D1:398:A:N3	29:D1:1416:C:OP1	2.42	0.53
29:D1:550:A:C6	29:D1:551:A:C6	2.97	0.53
29:D1:569:A:C2	29:D1:570:A:H1'	2.43	0.53
29:D1:581:U:O2	29:D1:581:U:C2'	2.57	0.53
29:D1:609:G:O2'	29:D1:610:G:C5'	2.52	0.53
29:D1:717:C:N4	29:D1:721:G:OP1	2.42	0.53
29:D1:806:A:C2	29:D1:807:A:C2	2.97	0.53
29:D1:880:G:O2'	29:D1:881:C:C5	2.62	0.53
29:D1:943:U:N1	29:D1:1432:C:C5	2.77	0.53
29:D1:1168:U:O2'	29:D1:1169:A:H5"	2.09	0.53
29:D1:1224:C:N4	29:D1:1286:A:C2	2.76	0.53
29:D1:1461:A:N6	29:D1:1462:A:N6	2.57	0.53
29:D1:1468:A:C2	29:D1:1469:C:N3	2.76	0.53
29:D1:1480:G:N2	29:D1:1871:U:OP2	2.42	0.53
29:D1:1594:A:H1'	29:D1:1615:C:C1'	2.38	0.53
29:D1:1638:A:H2	29:D1:1736:G:N3	2.06	0.53
29:D1:1857:C:OP2	29:D1:1857:C:C6	2.61	0.53
29:D1:1921:A:C5	29:D1:1929:G:N2	2.77	0.53
29:D1:1953:G:C8	29:D1:2093:A:C6	2.97	0.53
29:D1:2116:G:C2	29:D1:3064:U:H5"	2.44	0.53
29:D1:2173:U:C4	29:D1:2174:G:C6	2.96	0.53
29:D1:2254:U:N3	74:D1:3583:OHX:N5	2.56	0.53
29:D1:2271:A:C3'	29:D1:2272:G:C5'	2.87	0.53
29:D1:3327:G:N7	29:D1:3328:G:O6	2.42	0.53
29:D1:3333:G:N2	29:D1:3371:G:O4'	2.37	0.53
30:D2:13:A:H2'	30:D2:13:A:N3	2.24	0.53
31:D3:48:A:C6	31:D3:51:G:C5	2.97	0.53
31:D3:78:G:H8	31:D3:78:G:O5'	1.92	0.53
33:DB:186:PHE:O	33:DB:187:HIS:C	2.52	0.53
34:DC:93:VAL:O	34:DC:94:GLU:O	2.27	0.53
35:DD:134:LEU:C	35:DD:136:LEU:N	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:101:ASN:C	42:DK:103:GLY:H	2.17	0.53
44:DO:158:HIS:C	44:DO:160:GLU:H	2.16	0.53
46:DQ:31:GLU:O	46:DQ:35:ALA:HB2	2.09	0.53
46:DQ:111:LYS:O	46:DQ:112:LEU:C	2.51	0.53
54:DY:84:GLU:CA	54:DY:85:ASP:CB	2.87	0.53
56:Da:30:PRO:C	56:Da:32:ALA:N	2.67	0.53
1:A1:219:A:HO2'	1:A1:220:A:P	2.32	0.53
1:A1:297:U:C2'	1:A1:298:C:O5'	2.55	0.53
1:A1:647:G:N2	1:A1:687:G:C2	2.76	0.53
1:A1:848:C:H2'	1:A1:849:C:H6	1.73	0.53
1:A1:1101:G:O2'	1:A1:1102:G:H5'	2.09	0.53
1:A1:1667:A:C2	1:A1:1668:G:C5	2.96	0.53
2:AA:86:VAL:O	2:AA:88:LYS:N	2.42	0.53
2:AA:116:LYS:O	2:AA:117:GLU:CB	2.56	0.53
9:AH:21:ALA:HB2	9:AH:26:THR:HA	1.90	0.53
17:AP:58:GLY:HA2	17:AP:71:CYS:H	1.73	0.53
21:AT:297:ASP:O	21:AT:298:GLY:C	2.52	0.53
29:B1:6:A:N1	31:B3:154:C:C2	2.77	0.53
29:B1:176:G:O2'	29:B1:177:U:H6	1.92	0.53
29:B1:352:A:C1'	29:B1:354:U:C6	2.92	0.53
29:B1:717:C:C4	29:B1:721:G:OP1	2.61	0.53
29:B1:889:U:H2'	29:B1:890:C:C6	2.43	0.53
29:B1:957:C:C2	29:B1:958:C:C5	2.97	0.53
29:B1:980:A:H2'	29:B1:981:U:O4'	2.09	0.53
29:B1:993:G:N2	29:B1:2638:C:OP2	2.41	0.53
29:B1:1097:G:O3'	29:B1:1098:A:C4'	2.57	0.53
29:B1:1145:G:C4	29:B1:1160:C:C4	2.97	0.53
29:B1:1319:G:O2'	29:B1:1320:C:H5"	2.09	0.53
29:B1:1341:U:H2'	29:B1:1342:C:C6	2.43	0.53
29:B1:1439:U:C2	29:B1:1440:G:C8	2.97	0.53
29:B1:1506:A:C6	29:B1:1513:G:N1	2.77	0.53
29:B1:1537:A:C4	29:B1:1538:G:C8	2.97	0.53
29:B1:1724:U:O2'	29:B1:1725:C:O5'	2.27	0.53
29:B1:1841:A:N1	29:B1:1848:G:C5	2.77	0.53
29:B1:1900:A:C2	29:B1:1906:G:N9	2.77	0.53
29:B1:1928:G:C5	29:B1:1929:G:C8	2.96	0.53
29:B1:2105:G:H2'	29:B1:2106:A:O4'	2.09	0.53
29:B1:2233:A:C8	29:B1:2234:G:C8	2.97	0.53
29:B1:2275:A:C2	29:B1:2312:A:C4	2.97	0.53
29:B1:2324:A:H5"	29:B1:2325:G:P	2.49	0.53
29:B1:2762:A:C4	29:B1:2763:U:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2783:U:H2'	29:B1:2784:G:O5'	2.08	0.53
29:B1:2802:A:N7	61:Bf:54:THR:O	2.42	0.53
29:B1:2841:G:C4	29:B1:2844:C:N4	2.77	0.53
29:B1:2868:U:C4	29:B1:2869:U:H5	2.27	0.53
29:B1:2882:U:H2'	29:B1:2883:U:C5'	2.37	0.53
29:B1:2967:A:O2'	29:B1:2968:G:OP1	2.24	0.53
29:B1:2980:U:C2	29:B1:2981:U:C6	2.97	0.53
29:B1:3009:G:C2'	29:B1:3010:U:H5'	2.39	0.53
29:B1:3209:A:C2'	29:B1:3210:A:C8	2.92	0.53
29:B1:3316:A:N6	29:B1:3387:U:H3	2.06	0.53
29:B1:3320:A:C5	29:B1:3321:C:C4	2.97	0.53
29:B1:3366:G:H2'	29:B1:3367:C:C6	2.44	0.53
29:B1:3376:A:OP2	29:B1:3376:A:C4'	2.56	0.53
30:B2:2:G:C2	30:B2:3:U:C5	2.96	0.53
30:B2:12:U:C4	30:B2:70:U:OP1	2.62	0.53
30:B2:26:C:O2'	30:B2:27:A:P	2.67	0.53
30:B2:38:U:C2'	30:B2:40:C:C5'	2.86	0.53
30:B2:105:C:O2	30:B2:105:C:C2'	2.48	0.53
31:B3:9:A:H3'	31:B3:10:A:H8	1.74	0.53
34:BC:41:VAL:O	34:BC:42:ALA:O	2.26	0.53
35:BD:134:LEU:O	35:BD:136:LEU:N	2.42	0.53
38:BG:51:TYR:C	38:BG:53:LYS:N	2.64	0.53
38:BG:55:TYR:O	38:BG:56:GLU:C	2.52	0.53
39:BH:99:PRO:CA	39:BH:237:ILE:H	2.22	0.53
39:BH:157:VAL:CB	39:BH:160:ILE:HA	2.39	0.53
43:BN:76:ALA:O	43:BN:78:THR:N	2.42	0.53
44:BO:20:ARG:C	44:BO:22:LEU:N	2.66	0.53
44:BO:136:ASP:O	44:BO:139:HIS:CB	2.57	0.53
45:BP:15:LEU:HA	45:BP:42:ASN:O	2.09	0.53
45:BP:38:ALA:O	45:BP:39:GLU:C	2.52	0.53
47:BR:62:VAL:O	47:BR:87:VAL:HA	2.09	0.53
48:BS:144:GLN:O	48:BS:145:ALA:C	2.52	0.53
51:BV:33:ASN:O	51:BV:35:LYS:N	2.42	0.53
54:BY:84:GLU:CA	54:BY:85:ASP:CB	2.87	0.53
1:C1:114:C:H42	1:C1:250:C:C1'	2.22	0.53
1:C1:130:C:C6	1:C1:131:C:H4'	2.44	0.53
1:C1:380:U:O2'	1:C1:381:C:H6	1.91	0.53
1:C1:413:U:N3	1:C1:421:A:C2	2.76	0.53
1:C1:502:U:H2'	1:C1:503:G:C8	2.44	0.53
1:C1:553:G:N2	1:C1:572:C:N3	2.56	0.53
1:C1:734:A:C5	1:C1:735:C:C2	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1012:U:O5'	1:C1:1012:U:H6	1.92	0.53
1:C1:1138:A:N3	1:C1:1139:A:N7	2.56	0.53
1:C1:1225:U:C5	1:C1:1226:A:C5	2.97	0.53
1:C1:1336:A:C6	1:C1:1416:G:O6	2.62	0.53
1:C1:1485:C:H42	1:C1:1592:A:H4'	1.74	0.53
1:C1:1504:G:C6	1:C1:1505:A:N1	2.77	0.53
1:C1:1631:A:C2'	1:C1:1632:C:O4'	2.38	0.53
1:C1:1697:G:O6	1:C1:1709:C:N3	2.42	0.53
1:C1:1793:G:H4'	1:C1:1793:G:OP1	2.09	0.53
2:CA:17:LEU:O	2:CA:20:ALA:N	2.29	0.53
5:CD:63:GLN:O	5:CD:64:VAL:CB	2.57	0.53
5:CD:162:VAL:O	5:CD:164:PRO:N	2.41	0.53
5:CD:212:LYS:C	5:CD:214:LYS:N	2.64	0.53
11:CJ:54:LEU:C	11:CJ:56:GLY:H	2.16	0.53
13:CL:29:VAL:O	13:CL:43:SER:CB	2.57	0.53
13:CL:112:ASP:C	13:CL:114:GLU:H	2.16	0.53
14:CM:103:LYS:C	14:CM:105:LEU:N	2.66	0.53
28:Ch:19:UNK:O	28:Ch:20:UNK:C	2.57	0.53
29:D1:11:A:C2	31:D3:148:G:N1	2.77	0.53
29:D1:49:A:O2'	29:D1:50:U:P	2.67	0.53
29:D1:62:A:C5	29:D1:63:A:N7	2.78	0.53
29:D1:157:A:C2'	29:D1:158:G:C5	2.91	0.53
29:D1:218:G:H8	29:D1:218:G:OP1	1.92	0.53
29:D1:284:A:H2	29:D1:306:A:N9	2.07	0.53
29:D1:404:G:C2'	29:D1:405:U:H5'	2.38	0.53
29:D1:424:G:C6	29:D1:635:G:N2	2.77	0.53
29:D1:552:G:C6	29:D1:553:U:C4	2.97	0.53
29:D1:624:G:H2'	29:D1:625:G:H5'	1.91	0.53
29:D1:721:G:N3	29:D1:721:G:C3'	2.71	0.53
29:D1:756:U:C5'	29:D1:757:C:OP2	2.57	0.53
29:D1:815:G:C2	29:D1:906:A:C2	2.97	0.53
29:D1:836:A:C5	29:D1:837:A:N7	2.77	0.53
29:D1:1029:G:H2'	29:D1:1030:A:H5'	1.91	0.53
29:D1:1079:A:N6	29:D1:1080:A:N6	2.56	0.53
29:D1:1192:C:O2'	29:D1:1193:A:H1'	2.08	0.53
29:D1:1352:A:H3'	29:D1:1353:U:C4'	2.38	0.53
29:D1:1367:G:HO2'	29:D1:1368:U:P	2.32	0.53
29:D1:1453:A:C8	29:D1:1850:A:C2	2.97	0.53
29:D1:1461:A:C6	29:D1:1462:A:C6	2.97	0.53
29:D1:1700:G:H2'	29:D1:1701:C:C6	2.43	0.53
29:D1:1704:A:N6	29:D1:1739:U:N3	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1787:A:H3'	29:D1:1788:C:H5"	1.91	0.53
29:D1:2443:A:C5	29:D1:2444:C:C4	2.96	0.53
29:D1:2618:G:N2	29:D1:2644:C:O2'	2.42	0.53
29:D1:2654:C:C5'	29:D1:2657:A:C6	2.92	0.53
29:D1:2778:G:N3	29:D1:2778:G:H2'	2.24	0.53
29:D1:2883:U:C2'	29:D1:2884:C:H6	2.18	0.53
29:D1:2922:G:H2'	29:D1:2923:U:O4'	2.09	0.53
29:D1:3009:G:C6	29:D1:3010:U:C4	2.97	0.53
29:D1:3026:G:N2	29:D1:3030:G:C6	2.77	0.53
29:D1:3187:A:N1	29:D1:3188:G:C5	2.77	0.53
29:D1:3217:C:H6	29:D1:3220:G:O2'	1.91	0.53
29:D1:3344:A:H2	29:D1:3360:C:N4	2.07	0.53
29:D1:3349:C:C4	29:D1:3350:C:N4	2.77	0.53
30:D2:60:G:C4	30:D2:61:G:N7	2.77	0.53
31:D3:113:U:O2'	31:D3:114:G:P	2.66	0.53
33:DB:183:GLY:C	33:DB:185:ALA:N	2.61	0.53
34:DC:166:ILE:O	34:DC:167:ARG:C	2.52	0.53
34:DC:220:VAL:O	34:DC:221:THR:CB	2.56	0.53
42:DK:114:ILE:O	42:DK:115:LYS:O	2.27	0.53
43:DN:48:GLY:C	43:DN:50:LYS:CA	2.80	0.53
46:DQ:28:ASN:C	46:DQ:30:ARG:H	2.15	0.53
52:DW:75:LYS:C	52:DW:77:GLU:H	2.16	0.53
1:A1:93:A:OP2	1:A1:403:G:OP1	2.27	0.52
1:A1:108:A:C2'	1:A1:109:G:C8	2.89	0.52
1:A1:130:C:C4	1:A1:131:C:O2'	2.60	0.52
1:A1:169:A:C6	1:A1:171:A:C6	2.97	0.52
1:A1:290:G:N2	1:A1:291:G:C2	2.77	0.52
1:A1:340:U:N3	1:A1:341:A:N7	2.57	0.52
1:A1:373:G:H2'	1:A1:374:U:C6	2.44	0.52
1:A1:381:C:H5"	1:A1:382:C:OP2	2.08	0.52
1:A1:445:A:C2	1:A1:446:A:C5	2.97	0.52
1:A1:511:A:C4'	1:A1:512:A:OP2	2.56	0.52
1:A1:605:A:H62	1:A1:606:A:N6	2.05	0.52
1:A1:833:U:O2	1:A1:833:U:C2'	2.57	0.52
1:A1:961:U:H4'	8:AG:36:GLN:O	2.09	0.52
1:A1:989:U:C2'	1:A1:990:C:H6	2.15	0.52
1:A1:1002:G:N1	1:A1:1003:A:N1	2.56	0.52
1:A1:1147:A:C4	1:A1:1148:C:C6	2.97	0.52
1:A1:1508:U:O2	1:A1:1508:U:H2'	2.09	0.52
1:A1:1539:G:O2'	1:A1:1540:G:C5'	2.57	0.52
1:A1:1542:G:N2	1:A1:1568:C:C6	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1569:A:H2'	1:A1:1570:A:H8	1.73	0.52
2:AA:144:ILE:O	2:AA:145:ALA:HB2	2.08	0.52
16:AO:103:ILE:HA	16:AO:112:ASP:HA	1.90	0.52
17:AP:101:GLU:O	17:AP:127:VAL:CB	2.57	0.52
29:B1:63:A:C6	29:B1:64:G:C6	2.98	0.52
29:B1:232:G:H2'	29:B1:233:C:H6	1.75	0.52
29:B1:258:G:O2'	29:B1:259:C:P	2.67	0.52
29:B1:270:U:O2'	29:B1:271:C:H5'	2.09	0.52
29:B1:387:A:H2'	29:B1:388:G:O4'	2.09	0.52
29:B1:423:A:C8	29:B1:423:A:O5'	2.62	0.52
29:B1:548:G:H2'	29:B1:549:U:C4'	2.38	0.52
29:B1:548:G:C6	29:B1:549:U:C2	2.97	0.52
29:B1:606:C:C5'	29:B1:606:C:H6	2.22	0.52
29:B1:707:U:H4'	29:B1:782:U:O2	2.08	0.52
29:B1:764:U:OP2	29:B1:764:U:H6	1.92	0.52
29:B1:809:G:C4	29:B1:810:A:C8	2.97	0.52
29:B1:900:G:H2'	29:B1:901:G:H8	1.74	0.52
29:B1:979:U:H2'	29:B1:979:U:O2	2.08	0.52
29:B1:1083:G:H2'	29:B1:1084:A:O4'	2.09	0.52
29:B1:1174:G:C2	29:B1:1175:C:C4	2.96	0.52
29:B1:1354:G:C8	29:B1:1355:A:C6	2.93	0.52
29:B1:1414:G:C2	29:B1:1415:U:H1'	2.45	0.52
29:B1:1501:U:OP2	29:B1:1501:U:H6	1.91	0.52
29:B1:1878:G:H3'	29:B1:1879:A:H5'	1.91	0.52
29:B1:2130:G:H5"	29:B1:2131:A:OP2	2.08	0.52
29:B1:2149:A:C8	29:B1:2149:A:C3'	2.93	0.52
29:B1:2300:G:C6	29:B1:2301:U:C4	2.97	0.52
29:B1:2346:C:O2'	29:B1:2347:U:H5'	2.09	0.52
29:B1:2391:G:C6	29:B1:2392:C:N3	2.77	0.52
29:B1:2727:A:C6	29:B1:2728:G:C6	2.97	0.52
29:B1:2986:U:H2'	29:B1:2987:A:C8	2.37	0.52
29:B1:2987:A:C2'	29:B1:2988:C:H6	2.05	0.52
29:B1:3004:C:C2'	29:B1:3005:A:O5'	2.57	0.52
29:B1:3006:A:H2	29:B1:3141:A:C2	2.27	0.52
29:B1:3160:U:N3	29:B1:3161:C:C5	2.77	0.52
29:B1:3323:A:C2	29:B1:3324:C:N1	2.77	0.52
29:B1:3392:U:N3	29:B1:3393:U:N3	2.55	0.52
30:B2:90:U:C4	30:B2:91:G:C4	2.97	0.52
31:B3:61:A:H2'	31:B3:62:C:OP2	2.10	0.52
31:B3:64:U:C2	31:B3:97:A:C2	2.97	0.52
35:BD:215:ILE:C	35:BD:217:LYS:N	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BG:105:LEU:C	38:BG:107:ARG:N	2.65	0.52
40:BI:61:GLY:O	40:BI:62:ARG:C	2.51	0.52
40:BI:117:PHE:O	40:BI:118:LEU:C	2.52	0.52
41:BJ:66:GLU:O	41:BJ:69:ARG:N	2.42	0.52
42:BK:76:ALA:O	42:BK:78:GLU:N	2.42	0.52
45:BP:58:LEU:CB	45:BP:72:HIS:CB	2.87	0.52
48:BS:83:GLY:O	48:BS:84:THR:C	2.51	0.52
51:BV:4:GLU:HA	51:BV:13:ILE:C	2.33	0.52
58:Bc:1:MET:H3	58:Bc:5:LYS:H	1.57	0.52
59:Bd:36:SER:C	74:Bd:101:OHX:N6	2.67	0.52
61:Bf:4:VAL:O	61:Bf:5:PRO:CB	2.56	0.52
1:C1:82:U:H5'	1:C1:83:G:OP2	2.08	0.52
1:C1:257:A:C2'	1:C1:258:C:H5'	2.24	0.52
1:C1:265:A:N7	1:C1:290:G:N2	2.57	0.52
1:C1:280:U:H3'	1:C1:281:G:C8	2.35	0.52
1:C1:653:C:C5	1:C1:654:C:C5	2.97	0.52
1:C1:712:G:H2'	1:C1:713:A:C8	2.44	0.52
1:C1:814:A:C4	1:C1:816:G:N2	2.77	0.52
1:C1:1051:G:N2	1:C1:1052:U:H3	2.07	0.52
1:C1:1121:C:C2	1:C1:1127:G:N1	2.77	0.52
1:C1:1379:C:H2'	1:C1:1380:U:H5'	1.91	0.52
1:C1:1382:A:C4	1:C1:1383:G:C8	2.97	0.52
1:C1:1435:G:C4'	1:C1:1436:A:OP2	2.53	0.52
1:C1:1437:U:O2	1:C1:1437:U:C2'	2.46	0.52
1:C1:1685:G:N2	1:C1:1686:C:N3	2.56	0.52
1:C1:1738:U:O4	74:C1:1929:OHX:N5	2.42	0.52
2:CA:8:ASP:O	2:CA:11:PRO:N	2.42	0.52
2:CA:28:ASN:HA	2:CA:45:VAL:HA	1.90	0.52
10:CI:19:GLY:C	10:CI:21:ASP:H	2.17	0.52
29:D1:117:U:C4	29:D1:118:U:C5	2.97	0.52
29:D1:156:G:C4	29:D1:158:G:OP2	2.62	0.52
29:D1:265:A:C8	29:D1:265:A:OP1	2.62	0.52
29:D1:279:U:O2'	29:D1:280:U:H5'	2.09	0.52
29:D1:283:G:OP2	29:D1:285:A:H2'	2.09	0.52
29:D1:323:A:H2'	29:D1:324:A:C8	2.44	0.52
29:D1:405:U:H5	29:D1:406:G:C8	2.27	0.52
29:D1:440:A:H2'	29:D1:440:A:N3	2.22	0.52
29:D1:532:A:H3'	29:D1:533:A:H8	1.72	0.52
29:D1:571:U:O2'	29:D1:572:A:H5'	2.09	0.52
29:D1:577:C:H6	29:D1:577:C:H3'	1.74	0.52
29:D1:588:G:H4'	29:D1:589:A:H62	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:602:A:H2'	29:D1:602:A:N3	2.24	0.52
29:D1:719:U:OP1	47:DR:69:ARG:CB	2.57	0.52
29:D1:739:G:H5"	29:D1:740:G:OP2	2.09	0.52
29:D1:743:C:H3'	29:D1:743:C:C6	2.44	0.52
29:D1:746:A:O5'	29:D1:746:A:C8	2.61	0.52
29:D1:760:G:H2'	29:D1:761:A:C8	2.41	0.52
29:D1:812:G:C2	29:D1:813:G:C8	2.97	0.52
29:D1:841:A:C6	29:D1:853:G:C6	2.97	0.52
29:D1:885:U:O2	29:D1:885:U:C2'	2.56	0.52
29:D1:930:U:O2'	29:D1:931:C:H5'	2.10	0.52
29:D1:993:G:C4	29:D1:2637:A:C4	2.97	0.52
29:D1:1104:G:H2'	29:D1:1105:A:O4'	2.09	0.52
29:D1:1131:G:C5	29:D1:2373:A:C2	2.98	0.52
29:D1:1235:U:N1	29:D1:1237:G:H5'	2.23	0.52
29:D1:1489:A:N3	29:D1:1489:A:H2'	2.24	0.52
29:D1:1542:G:C5	74:D1:3556:OHX:N3	2.77	0.52
29:D1:1900:A:N1	29:D1:1908:A:N1	2.57	0.52
29:D1:1907:C:H5	29:D1:1908:A:C5	2.28	0.52
29:D1:2309:A:H8	29:D1:2309:A:OP1	1.92	0.52
29:D1:2407:C:H1'	29:D1:2818:U:C2	2.44	0.52
29:D1:2659:G:H4'	29:D1:2751:G:O2'	2.09	0.52
29:D1:2716:U:C5'	29:D1:2717:U:OP2	2.57	0.52
29:D1:2725:U:H5	29:D1:2727:A:HO2'	1.38	0.52
29:D1:2808:A:C8	29:D1:2955:U:H4'	2.43	0.52
29:D1:3019:U:C5	29:D1:3020:U:C4	2.97	0.52
29:D1:3214:U:O3'	29:D1:3218:A:H5"	2.06	0.52
29:D1:3254:G:N3	29:D1:3254:G:C2'	2.71	0.52
29:D1:3265:C:C5	29:D1:3266:G:N7	2.78	0.52
29:D1:3306:U:O2'	29:D1:3309:G:N1	2.38	0.52
29:D1:3328:G:H22	29:D1:3375:A:H62	1.55	0.52
29:D1:3336:A:N6	29:D1:3337:G:C6	2.77	0.52
30:D2:14:U:O2'	30:D2:15:C:P	2.66	0.52
30:D2:65:G:H2'	30:D2:66:A:O5'	2.08	0.52
30:D2:91:G:O2'	30:D2:92:A:H5'	2.09	0.52
31:D3:79:A:C5	31:D3:80:A:C5	2.96	0.52
34:DC:193:ASP:O	34:DC:196:ARG:N	2.42	0.52
35:DD:7:THR:O	35:DD:9:HIS:N	2.42	0.52
35:DD:16:THR:CB	35:DD:17:ALA:CA	2.87	0.52
36:DE:234:ASP:C	36:DE:236:LEU:N	2.68	0.52
43:DN:24:LYS:CA	43:DN:31:LYS:C	2.82	0.52
43:DN:111:ALA:O	43:DN:113:THR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DU:121:GLU:C	50:DU:123:ALA:H	2.14	0.52
1:A1:27:U:O2'	1:A1:28:A:H5'	2.10	0.52
1:A1:37:U:OP1	1:A1:531:C:O2'	2.19	0.52
1:A1:59:C:N4	1:A1:89:G:N3	2.57	0.52
1:A1:407:A:H1'	1:A1:1671:A:C2	2.43	0.52
1:A1:417:A:H4'	1:A1:418:G:O5'	2.08	0.52
1:A1:704:C:H4'	1:A1:705:U:OP1	2.09	0.52
1:A1:741:C:O2	1:A1:741:C:C2'	2.54	0.52
1:A1:863:A:H2'	1:A1:865:A:C8	2.44	0.52
1:A1:871:G:O6	1:A1:957:G:C6	2.62	0.52
1:A1:873:U:C4	1:A1:874:C:N4	2.77	0.52
1:A1:1150:G:O2'	1:A1:1151:A:OP1	2.27	0.52
1:A1:1203:A:C5	1:A1:1555:A:N1	2.77	0.52
1:A1:1268:G:O2'	1:A1:1269:U:H3'	2.09	0.52
1:A1:1354:G:C6	1:A1:1355:C:C4	2.97	0.52
1:A1:1393:C:H2'	1:A1:1394:G:C8	2.45	0.52
1:A1:1480:G:H2'	1:A1:1481:C:H5"	1.91	0.52
1:A1:1720:G:C6	1:A1:1721:A:C4	2.97	0.52
1:A1:1771:U:C2	1:A1:1772:C:C5	2.97	0.52
1:A1:1774:G:H5"	1:A1:1775:U:OP2	2.09	0.52
3:AB:42:GLY:O	3:AB:43:ARG:C	2.52	0.52
4:AC:125:TYR:HA	4:AC:128:GLU:CB	2.39	0.52
8:AG:101:HIS:O	8:AG:105:ASN:N	2.40	0.52
9:AH:97:GLY:HA2	9:AH:100:ALA:HB3	1.91	0.52
16:AO:24:GLN:CB	16:AO:63:VAL:O	2.57	0.52
29:B1:304:G:H3'	29:B1:304:G:P	2.48	0.52
29:B1:648:C:H5	29:B1:2375:G:O5'	1.90	0.52
29:B1:930:U:O2'	29:B1:931:C:H5'	2.09	0.52
29:B1:1051:U:H5'	29:B1:1052:U:OP2	2.10	0.52
29:B1:1247:U:OP1	29:B1:1248:C:C5	2.62	0.52
29:B1:1625:A:C8	29:B1:1626:U:O4'	2.62	0.52
29:B1:1655:G:C8	29:B1:1656:A:C8	2.97	0.52
29:B1:1662:G:C5	29:B1:1663:C:C5	2.98	0.52
29:B1:2142:A:H4'	29:B1:2143:A:O5'	2.09	0.52
29:B1:2302:G:C6	29:B1:2303:A:C5	2.98	0.52
29:B1:2565:U:C2	29:B1:2566:C:C5	2.96	0.52
29:B1:2599:U:C2	29:B1:2600:C:C5	2.97	0.52
29:B1:2676:A:H2'	29:B1:2677:G:OP1	2.09	0.52
29:B1:2712:U:C2'	29:B1:2713:U:O5'	2.57	0.52
29:B1:2836:C:O2	29:B1:2836:C:H2'	2.09	0.52
29:B1:3011:A:H5"	29:B1:3011:A:N3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3069:G:N1	29:B1:3070:A:N7	2.58	0.52
29:B1:3096:C:C4	29:B1:3097:C:N4	2.77	0.52
29:B1:3123:A:C8	29:B1:3124:G:C8	2.96	0.52
29:B1:3202:G:O2'	29:B1:3203:U:O4'	2.22	0.52
29:B1:3315:G:C4'	29:B1:3319:U:O3'	2.57	0.52
29:B1:3333:G:H1	29:B1:3370:A:C2'	2.23	0.52
29:B1:3352:U:C2'	29:B1:3354:U:H4'	2.35	0.52
31:B3:56:G:C6	31:B3:62:C:C4	2.96	0.52
33:BB:18:SER:C	33:BB:20:THR:H	2.17	0.52
33:BB:148:VAL:O	33:BB:149:ARG:CB	2.58	0.52
39:BH:133:LYS:CB	39:BH:199:ALA:H	2.23	0.52
40:BI:55:VAL:O	40:BI:56:ALA:HB3	2.07	0.52
40:BI:86:TYR:CB	40:BI:148:GLY:O	2.57	0.52
41:BJ:47:PRO:O	41:BJ:140:THR:O	2.28	0.52
41:BJ:121:LYS:O	41:BJ:122:PRO:O	2.26	0.52
46:BQ:28:ASN:C	46:BQ:30:ARG:H	2.17	0.52
51:BV:49:ILE:C	51:BV:51:TRP:H	2.17	0.52
53:BX:52:ARG:C	53:BX:54:ASP:H	2.17	0.52
55:BZ:76:GLU:C	55:BZ:78:GLY:N	2.66	0.52
61:Bf:57:VAL:HA	61:Bf:58:PHE:CB	2.39	0.52
62:Bg:78:THR:O	62:Bg:82:THR:N	2.42	0.52
63:Bh:15:UNK:C	63:Bh:17:UNK:N	2.70	0.52
1:C1:13:C:O3'	3:CB:161:LYS:O	2.28	0.52
1:C1:45:U:H5'	1:C1:45:U:C6	2.43	0.52
1:C1:147:A:H2'	1:C1:148:A:C1'	2.39	0.52
1:C1:228:G:O2'	1:C1:229:U:C6	2.49	0.52
1:C1:445:A:H2'	1:C1:446:A:C8	2.43	0.52
1:C1:646:C:H2'	1:C1:647:G:C5'	2.38	0.52
1:C1:775:G:N2	1:C1:786:C:C2	2.77	0.52
1:C1:1006:C:C5	1:C1:1007:C:C5	2.96	0.52
1:C1:1240:U:C3'	1:C1:1241:G:C5'	2.86	0.52
1:C1:1329:A:C8	1:C1:1330:G:C8	2.97	0.52
1:C1:1392:U:C6	1:C1:1392:U:H5"	2.44	0.52
1:C1:1526:A:OP2	1:C1:1527:C:H5	1.91	0.52
1:C1:1595:U:H2'	1:C1:1596:C:O2	2.09	0.52
1:C1:1664:C:O2	1:C1:1664:C:H2'	2.09	0.52
1:C1:1781:A:C6	1:C1:1782:A:C6	2.98	0.52
1:C1:1791:A:C5'	1:C1:1791:A:H8	2.23	0.52
5:CD:220:VAL:C	5:CD:222:LYS:H	2.16	0.52
6:CE:49:LEU:O	6:CE:50:SER:C	2.50	0.52
8:CG:51:GLY:O	8:CG:55:ARG:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:109:LYS:C	8:CG:111:ALA:N	2.67	0.52
11:CJ:35:PRO:O	11:CJ:38:LEU:N	2.42	0.52
12:CK:58:MET:O	12:CK:62:GLN:HA	2.10	0.52
21:CT:282:SER:O	21:CT:284:ALA:N	2.36	0.52
24:Cc:12:UNK:HA	24:Cc:13:UNK:C	2.36	0.52
29:D1:9:U:C2'	29:D1:10:C:H5'	2.36	0.52
29:D1:42:C:C2'	29:D1:43:A:C5'	2.73	0.52
29:D1:221:A:N9	29:D1:224:C:N4	2.57	0.52
29:D1:282:G:N3	29:D1:286:U:C4'	2.72	0.52
29:D1:303:G:C2	29:D1:2778:G:N7	2.77	0.52
29:D1:546:C:N4	29:D1:547:G:N3	2.56	0.52
29:D1:548:G:C6	29:D1:549:U:C2	2.97	0.52
29:D1:614:C:O2'	29:D1:615:U:H5'	2.09	0.52
29:D1:659:G:N1	29:D1:1432:C:C2	2.77	0.52
29:D1:731:U:H5"	47:DR:136:ASN:H	1.75	0.52
29:D1:941:G:H1'	29:D1:1435:A:N3	2.24	0.52
29:D1:943:U:H1'	29:D1:944:C:OP1	2.10	0.52
29:D1:1014:U:H4'	29:D1:1014:U:OP1	2.08	0.52
29:D1:1180:A:N3	29:D1:1182:A:H1'	2.23	0.52
29:D1:1199:C:N3	74:D1:3574:OHX:N5	2.56	0.52
29:D1:1224:C:C5	29:D1:1285:G:N1	2.78	0.52
29:D1:1422:G:H2'	29:D1:1423:C:C6	2.43	0.52
29:D1:1700:G:H2'	29:D1:1701:C:H6	1.74	0.52
29:D1:2244:A:O2'	29:D1:2245:C:H5'	2.09	0.52
29:D1:2593:A:C4'	29:D1:2594:C:H5'	2.31	0.52
29:D1:2609:A:C2	29:D1:2610:G:N7	2.77	0.52
29:D1:2668:U:H5	74:D1:3599:OHX:N2	2.07	0.52
29:D1:2681:U:HO2'	29:D1:2682:C:H5"	1.72	0.52
29:D1:2814:G:H2'	29:D1:2815:G:H8	1.74	0.52
29:D1:3003:G:C2	29:D1:3004:C:C6	2.97	0.52
29:D1:3352:U:H2'	29:D1:3354:U:C4'	2.36	0.52
29:D1:3394:U:O2'	29:D1:3395:G:C8	2.62	0.52
30:D2:64:A:C1'	30:D2:65:G:H5"	2.37	0.52
31:D3:94:C:H41	59:Dd:63:ARG:CB	2.23	0.52
31:D3:145:U:C4	31:D3:146:U:C4	2.97	0.52
35:DD:101:ALA:O	35:DD:102:PRO:O	2.28	0.52
35:DD:261:VAL:O	35:DD:262:TRP:C	2.52	0.52
37:DF:22:ARG:O	37:DF:113:LYS:O	2.28	0.52
37:DF:151:LYS:O	37:DF:154:LEU:N	2.42	0.52
39:DH:152:LEU:HA	39:DH:178:ALA:HB3	1.91	0.52
40:DI:43:VAL:O	40:DI:56:ALA:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:117:PHE:O	40:DI:120:ASP:N	2.42	0.52
41:DJ:68:ALA:O	41:DJ:72:ALA:HB2	2.08	0.52
41:DJ:174:THR:O	41:DJ:176:LEU:N	2.41	0.52
45:DP:36:VAL:O	45:DP:37:ARG:CB	2.57	0.52
47:DR:23:ASN:O	47:DR:26:LEU:N	2.43	0.52
49:DT:76:ILE:O	49:DT:77:ASN:CB	2.57	0.52
49:DT:115:LYS:C	49:DT:117:ALA:N	2.61	0.52
55:DZ:83:LYS:O	55:DZ:84:LEU:CB	2.56	0.52
57:Db:4:LEU:C	57:Db:6:HIS:H	2.16	0.52
59:Dd:67:LEU:O	59:Dd:68:LYS:O	2.27	0.52
1:A1:71:A:H4'	1:A1:72:A:OP2	2.08	0.52
1:A1:129:U:H5	74:A1:1915:OHX:N3	2.08	0.52
1:A1:250:C:OP2	1:A1:251:A:OP2	2.27	0.52
1:A1:323:A:O2'	1:A1:324:U:H5'	2.09	0.52
1:A1:366:A:C2	1:A1:376:C:C2	2.98	0.52
1:A1:391:A:O2'	1:A1:392:G:H5'	2.09	0.52
1:A1:449:C:H2'	1:A1:449:C:O2	2.08	0.52
1:A1:492:A:N1	1:A1:495:C:OP2	2.42	0.52
1:A1:888:U:H3'	1:A1:889:U:C6	2.44	0.52
1:A1:1003:A:C8	1:A1:1005:A:C4	2.98	0.52
1:A1:1118:G:N1	1:A1:1119:G:C5	2.77	0.52
1:A1:1180:C:C4	1:A1:1181:U:C5	2.97	0.52
1:A1:1263:G:C5	1:A1:1264:G:C8	2.96	0.52
1:A1:1382:A:C4	1:A1:1383:G:N7	2.78	0.52
1:A1:1417:A:OP1	74:A1:1989:OHX:N5	2.42	0.52
1:A1:1575:G:N2	1:A1:1576:A:C1'	2.72	0.52
1:A1:1600:A:OP1	1:A1:1600:A:C4'	2.48	0.52
1:A1:1764:C:OP1	1:A1:1771:U:C4'	2.47	0.52
1:A1:1784:C:C2	1:A1:1785:U:C6	2.97	0.52
2:AA:91:ALA:C	2:AA:93:THR:H	2.17	0.52
2:AA:169:SER:O	2:AA:170:ILE:C	2.52	0.52
5:AD:66:GLN:HA	5:AD:87:CYS:O	2.09	0.52
11:AJ:18:ALA:CB	11:AJ:84:ALA:HB2	2.39	0.52
12:AK:42:GLN:CB	12:AK:47:ARG:HA	2.40	0.52
18:AQ:41:ILE:C	18:AQ:43:ASP:H	2.18	0.52
29:B1:70:A:H2'	29:B1:71:A:H5'	1.90	0.52
29:B1:198:A:C2	29:B1:219:A:C5	2.97	0.52
29:B1:360:G:N1	29:B1:361:A:N6	2.57	0.52
29:B1:381:U:H1'	29:B1:388:G:N2	2.24	0.52
29:B1:431:U:HO2'	29:B1:432:G:P	2.31	0.52
29:B1:519:A:H62	37:BF:30:LEU:C	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:650:C:H5'	29:B1:2872:A:OP2	2.09	0.52
29:B1:739:G:H5"	29:B1:740:G:OP2	2.09	0.52
29:B1:745:C:N3	29:B1:746:A:N6	2.57	0.52
29:B1:778:U:H2'	29:B1:779:G:H5'	1.91	0.52
29:B1:808:A:C5	29:B1:809:G:N7	2.78	0.52
29:B1:934:G:H5"	29:B1:935:U:OP2	2.09	0.52
29:B1:959:C:N4	29:B1:2801:A:H5"	2.23	0.52
29:B1:1075:A:C2	69:Bp:246:UNK:CA	2.93	0.52
29:B1:1125:U:H6	29:B1:1125:U:O5'	1.92	0.52
29:B1:1194:G:O2'	29:B1:1309:U:O2	2.27	0.52
29:B1:1199:C:O2	29:B1:1199:C:C2'	2.56	0.52
29:B1:1358:C:H3'	29:B1:1359:C:H6	1.74	0.52
29:B1:1428:A:C5	29:B1:1430:U:C4	2.98	0.52
29:B1:1525:G:H1'	29:B1:1829:G:C2	2.44	0.52
29:B1:1625:A:N7	29:B1:1626:U:N1	2.57	0.52
29:B1:1628:C:O2'	29:B1:1630:U:C5'	2.46	0.52
29:B1:1640:G:O2'	29:B1:1641:U:O5'	2.26	0.52
29:B1:1804:A:C2	29:B1:1805:C:C2	2.98	0.52
29:B1:2092:A:OP2	29:B1:2093:A:H8	1.93	0.52
29:B1:2424:A:C5'	29:B1:2425:G:OP2	2.55	0.52
29:B1:2513:U:HO2'	29:B1:2514:U:P	2.32	0.52
29:B1:2520:A:C2	29:B1:2521:U:C2	2.97	0.52
29:B1:2573:G:O6	74:B1:3558:OHX:N3	2.42	0.52
29:B1:2610:G:H2'	29:B1:2611:U:C6	2.44	0.52
29:B1:2743:A:C6	29:B1:2744:U:C4	2.97	0.52
29:B1:2914:G:H2'	29:B1:2915:U:H6	1.74	0.52
29:B1:2967:A:C2'	29:B1:2968:G:OP1	2.57	0.52
29:B1:3059:G:C2'	29:B1:3060:C:H5'	2.39	0.52
29:B1:3064:U:C2	29:B1:3065:G:N7	2.77	0.52
29:B1:3130:A:H5'	29:B1:3131:U:H5	1.74	0.52
29:B1:3205:G:OP2	29:B1:3206:C:OP2	2.26	0.52
29:B1:3234:A:C2	29:B1:3235:C:C6	2.97	0.52
29:B1:3341:U:C4	29:B1:3362:A:N1	2.78	0.52
29:B1:3341:U:O3'	29:B1:3343:G:N2	2.40	0.52
30:B2:14:U:O2'	30:B2:15:C:P	2.67	0.52
35:BD:153:SER:O	35:BD:155:ASP:N	2.42	0.52
40:BI:21:LYS:O	40:BI:22:SER:O	2.26	0.52
45:BP:77:SER:C	45:BP:79:ILE:N	2.67	0.52
45:BP:77:SER:O	45:BP:79:ILE:N	2.43	0.52
52:BW:69:SER:O	52:BW:72:ALA:N	2.42	0.52
54:BY:135:GLU:C	54:BY:137:LYS:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:12:U:H5”	1:C1:13:C:OP2	2.08	0.52
1:C1:23:G:C5	1:C1:24:U:C4	2.97	0.52
1:C1:42:G:O4’	1:C1:437:A:C8	2.63	0.52
1:C1:71:A:C2	1:C1:72:A:N6	2.69	0.52
1:C1:167:U:H5’	1:C1:167:U:C6	2.42	0.52
1:C1:185:U:C2	1:C1:201:G:N2	2.77	0.52
1:C1:198:A:O2’	1:C1:199:G:O5’	2.27	0.52
1:C1:229:U:H2’	1:C1:230:C:C6	2.45	0.52
1:C1:283:U:O3’	1:C1:284:G:C4’	2.56	0.52
1:C1:326:G:H2’	1:C1:327:U:C6	2.44	0.52
1:C1:327:U:N3	1:C1:328:A:N7	2.57	0.52
1:C1:413:U:C2	1:C1:421:A:C2	2.98	0.52
1:C1:479:C:O3’	1:C1:480:G:O4’	2.26	0.52
1:C1:617:U:H5’	1:C1:1031:U:O4’	2.10	0.52
1:C1:813:U:C5	48:DS:162:ARG:CB	2.92	0.52
1:C1:848:C:H2’	1:C1:849:C:H6	1.75	0.52
1:C1:885:G:H5”	1:C1:886:U:OP2	2.09	0.52
1:C1:891:A:C6	1:C1:922:G:O6	2.62	0.52
1:C1:956:C:N4	1:C1:957:G:O6	2.42	0.52
1:C1:960:U:H2’	1:C1:961:U:C6	2.44	0.52
1:C1:973:A:N3	1:C1:974:A:N7	2.57	0.52
1:C1:1291:G:N2	1:C1:1324:G:H22	2.07	0.52
1:C1:1330:G:C2’	1:C1:1331:A:H8	2.20	0.52
1:C1:1379:C:C2’	1:C1:1380:U:H5’	2.38	0.52
1:C1:1469:A:H2’	1:C1:1470:C:C6	2.44	0.52
1:C1:1682:U:O2	1:C1:1683:C:C4	2.62	0.52
1:C1:1684:U:H3’	1:C1:1685:G:C5’	2.39	0.52
1:C1:1766:A:O2’	1:C1:1767:G:O5’	2.23	0.52
2:CA:13:ASP:H	2:CA:17:LEU:H	1.57	0.52
6:CE:23:ARG:O	6:CE:26:ALA:HB3	2.10	0.52
6:CE:100:LYS:O	6:CE:101:VAL:C	2.53	0.52
12:CK:54:THR:O	12:CK:55:THR:C	2.50	0.52
13:CL:76:PRO:C	13:CL:81:ILE:H	2.17	0.52
13:CL:112:ASP:C	13:CL:114:GLU:N	2.68	0.52
16:CO:111:MET:CB	16:CO:116:ALA:HB2	2.38	0.52
20:CS:40:ARG:CB	74:CS:101:OHX:N3	2.72	0.52
23:Cb:72:UNK:C	23:Cb:74:UNK:N	2.70	0.52
29:D1:8:C:C2’	29:D1:9:U:C6	2.89	0.52
29:D1:70:A:H2’	29:D1:71:A:H5’	1.91	0.52
29:D1:85:A:C8	29:D1:87:U:N3	2.78	0.52
29:D1:287:G:C4	29:D1:288:C:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:353:G:O2'	29:D1:354:U:OP2	2.27	0.52
29:D1:427:C:H2'	29:D1:428:A:H5'	1.91	0.52
29:D1:548:G:H2'	29:D1:549:U:C4'	2.39	0.52
29:D1:591:G:C2	29:D1:592:A:C8	2.96	0.52
29:D1:716:A:C3'	29:D1:716:A:C8	2.93	0.52
29:D1:773:G:O2'	29:D1:774:G:H5'	2.09	0.52
29:D1:877:C:H6	29:D1:877:C:C3'	2.23	0.52
29:D1:971:G:HO2'	29:D1:972:A:H5'	1.73	0.52
29:D1:993:G:N3	29:D1:2637:A:C2'	2.69	0.52
29:D1:1180:A:C6	29:D1:1182:A:C5	2.98	0.52
29:D1:1390:A:C6	29:D1:1418:A:C4	2.97	0.52
29:D1:1448:U:C2'	29:D1:1449:A:H5'	2.38	0.52
29:D1:1503:A:C3'	29:D1:1504:A:C5'	2.75	0.52
29:D1:1532:C:C2	29:D1:1591:G:C2	2.98	0.52
29:D1:2140:U:C5	29:D1:2956:A:C2	2.97	0.52
29:D1:2222:A:H61	29:D1:2783:U:H5'	1.71	0.52
29:D1:2294:U:C6	29:D1:2297:U:C5	2.98	0.52
29:D1:2364:G:H8	29:D1:2364:G:OP2	1.92	0.52
29:D1:2630:C:O3'	49:DT:6:GLY:HA3	2.09	0.52
29:D1:2702:A:H8	29:D1:2704:A:C5	2.28	0.52
29:D1:2717:U:H2'	29:D1:2718:U:C6	2.44	0.52
29:D1:2869:U:O2	29:D1:2869:U:C2'	2.57	0.52
29:D1:3011:A:C2	34:DC:13:HIS:HA	2.44	0.52
29:D1:3105:U:H5	29:D1:3128:G:H21	1.57	0.52
29:D1:3111:U:O2'	29:D1:3112:G:H5'	2.09	0.52
29:D1:3256:G:C6	29:D1:3257:C:C4	2.97	0.52
29:D1:3331:U:H6	29:D1:3331:U:O5'	1.92	0.52
30:D2:24:A:N3	30:D2:25:G:C8	2.77	0.52
30:D2:24:A:C2'	30:D2:25:G:H8	2.19	0.52
30:D2:38:U:O2'	30:D2:40:C:C5'	2.55	0.52
30:D2:54:U:O2	30:D2:54:U:C2'	2.57	0.52
30:D2:60:G:C4	30:D2:61:G:C8	2.98	0.52
30:D2:90:U:O2	30:D2:90:U:H2'	2.09	0.52
35:DD:5:GLN:N	35:DD:21:PRO:HA	2.24	0.52
36:DE:139:PRO:HA	36:DE:140:ARG:CB	2.38	0.52
38:DG:104:GLN:O	38:DG:107:ARG:HA	2.08	0.52
45:DP:139:GLY:O	45:DP:142:SER:CB	2.57	0.52
46:DQ:9:THR:N	46:DQ:10:ASN:CA	2.73	0.52
50:DU:18:PRO:HA	50:DU:51:ALA:CB	2.40	0.52
1:A1:145:A:C2	1:A1:146:U:H1'	2.44	0.52
1:A1:313:U:C6	1:A1:1118:G:C2	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:343:C:H2'	1:A1:344:A:H8	1.74	0.52
1:A1:524:U:C2	1:A1:527:A:N1	2.77	0.52
1:A1:565:C:C2	1:A1:576:G:C6	2.97	0.52
1:A1:599:A:H5"	1:A1:600:U:OP2	2.09	0.52
1:A1:874:C:H2'	1:A1:875:G:C8	2.45	0.52
1:A1:1205:C:C5	1:A1:1206:U:O2	2.63	0.52
1:A1:1348:A:O5'	1:A1:1348:A:C8	2.48	0.52
1:A1:1573:A:H4'	1:A1:1574:G:OP2	2.09	0.52
1:A1:1654:G:N2	1:A1:1745:G:H2'	2.24	0.52
1:A1:1722:A:OP1	1:A1:1722:A:O3'	2.27	0.52
9:AH:30:VAL:H	9:AH:40:ALA:HB3	1.73	0.52
12:AK:46:LEU:C	12:AK:48:ASN:H	2.16	0.52
13:AL:48:LYS:C	13:AL:50:ALA:N	2.65	0.52
15:AN:102:ARG:C	15:AN:104:THR:N	2.60	0.52
17:AP:27:ASN:O	17:AP:28:ASN:CB	2.56	0.52
22:Aa:5:UNK:O	22:Aa:6:UNK:C	2.57	0.52
23:Ab:59:UNK:O	23:Ab:61:UNK:N	2.43	0.52
29:B1:48:A:C2	29:B1:50:U:O4	2.62	0.52
29:B1:83:U:H2'	29:B1:84:U:O4'	2.10	0.52
29:B1:122:A:C4'	29:B1:150:A:HO2'	2.22	0.52
29:B1:157:A:O2'	29:B1:158:G:N9	2.39	0.52
29:B1:246:U:OP2	29:B1:247:C:H5"	2.10	0.52
29:B1:247:C:C2'	29:B1:248:U:H4'	2.38	0.52
29:B1:283:G:C2	29:B1:285:A:C6	2.98	0.52
29:B1:374:A:C2	29:B1:375:A:C4	2.97	0.52
29:B1:380:U:C2	29:B1:381:U:H5	2.27	0.52
29:B1:383:G:H2'	29:B1:385:A:P	2.48	0.52
29:B1:528:U:O2	29:B1:529:A:C8	2.62	0.52
29:B1:584:G:C4	29:B1:585:A:C8	2.97	0.52
29:B1:585:A:C6	29:B1:586:C:N4	2.77	0.52
29:B1:588:G:C5	29:B1:612:U:C5	2.88	0.52
29:B1:637:C:O2'	29:B1:638:C:H5"	2.09	0.52
29:B1:638:C:H2'	29:B1:639:G:H8	1.72	0.52
29:B1:726:G:H2'	29:B1:727:G:O4'	2.09	0.52
29:B1:880:G:OP2	46:BQ:131:ARG:HA	2.09	0.52
29:B1:943:U:C2'	29:B1:944:C:OP1	2.57	0.52
29:B1:956:U:H2'	29:B1:957:C:C6	2.43	0.52
29:B1:1029:G:H2'	29:B1:1030:A:H5'	1.90	0.52
29:B1:1129:A:H62	29:B1:1130:A:H61	1.56	0.52
29:B1:1211:U:N3	29:B1:1295:G:C6	2.77	0.52
29:B1:1466:G:O6	29:B1:1511:U:C6	2.61	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1546:A:N6	29:B1:1547:G:N1	2.57	0.52
29:B1:1601:U:C5	29:B1:1604:G:O6	2.62	0.52
29:B1:1841:A:C2	29:B1:1848:G:N7	2.77	0.52
29:B1:2117:A:H3'	29:B1:2118:C:C5	2.44	0.52
29:B1:2257:C:H3'	29:B1:2258:U:C6	2.40	0.52
29:B1:2658:G:C6	29:B1:2659:G:N7	2.78	0.52
29:B1:2717:U:C4	29:B1:2740:A:N1	2.78	0.52
29:B1:2728:G:N2	29:B1:2729:U:C6	2.77	0.52
29:B1:2743:A:C3'	29:B1:2744:U:H6	2.20	0.52
29:B1:2745:G:N2	29:B1:2748:A:OP2	2.42	0.52
29:B1:2974:U:H2'	29:B1:2975:U:C6	2.45	0.52
29:B1:2983:C:O2	29:B1:2983:C:O4'	2.27	0.52
29:B1:3019:U:C5	29:B1:3020:U:C4	2.98	0.52
29:B1:3102:G:HO2'	29:B1:3103:A:P	2.32	0.52
29:B1:3141:A:N3	29:B1:3143:C:O2'	2.43	0.52
29:B1:3322:A:C5	29:B1:3323:A:N7	2.76	0.52
29:B1:3381:U:C2'	29:B1:3383:G:C4	2.92	0.52
29:B1:3392:U:O2	29:B1:3393:U:C2	2.62	0.52
30:B2:26:C:H6	30:B2:26:C:O5'	1.92	0.52
30:B2:82:G:C6	30:B2:99:G:C6	2.97	0.52
30:B2:87:G:N2	30:B2:95:A:C5	2.78	0.52
31:B3:101:U:H2'	31:B3:102:U:O5'	2.09	0.52
33:BB:183:GLY:C	33:BB:185:ALA:N	2.63	0.52
36:BE:77:ALA:O	36:BE:78:ALA:CB	2.58	0.52
36:BE:234:ASP:O	36:BE:236:LEU:N	2.43	0.52
38:BG:153:PHE:O	38:BG:154:GLY:O	2.28	0.52
41:BJ:206:LEU:O	41:BJ:207:GLU:C	2.53	0.52
42:BK:68:HIS:O	42:BK:69:VAL:C	2.52	0.52
44:BO:52:GLY:O	44:BO:53:TYR:O	2.28	0.52
44:BO:75:VAL:O	44:BO:76:PRO:CB	2.58	0.52
50:BU:18:PRO:HA	50:BU:51:ALA:CB	2.39	0.52
59:Bd:52:LYS:CA	59:Bd:53:ALA:HB3	2.39	0.52
63:Bh:48:UNK:O	63:Bh:49:UNK:C	2.56	0.52
64:Bi:5:UNK:HA	64:Bi:8:UNK:CB	2.39	0.52
26:Bj:3:UNK:C	26:Bj:5:UNK:N	2.69	0.52
1:C1:89:G:N3	1:C1:90:C:C6	2.77	0.52
1:C1:150:U:H5'	1:C1:151:G:OP2	2.10	0.52
1:C1:206:A:N3	1:C1:262:U:C4	2.77	0.52
1:C1:283:U:C3'	1:C1:284:G:C4'	2.87	0.52
1:C1:407:A:H1'	1:C1:1671:A:H2	1.75	0.52
1:C1:607:G:C6	1:C1:613:G:H5'	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:653:C:C5	1:C1:654:C:H5	2.28	0.52
1:C1:840:U:O2'	1:C1:841:U:P	2.68	0.52
1:C1:995:A:H3'	1:C1:996:U:H6	1.74	0.52
1:C1:1054:U:H2'	1:C1:1055:U:C6	2.44	0.52
1:C1:1146:G:N1	1:C1:1147:A:C6	2.78	0.52
1:C1:1150:G:H2'	1:C1:1151:A:O5'	2.09	0.52
1:C1:1199:G:C4	1:C1:1200:G:O4'	2.61	0.52
1:C1:1204:A:N3	1:C1:1204:A:C2'	2.71	0.52
1:C1:1232:U:H2'	1:C1:1233:G:O4'	2.10	0.52
1:C1:1567:U:H5'	1:C1:1567:U:C6	2.44	0.52
1:C1:1575:G:N1	1:C1:1576:A:C4	2.77	0.52
1:C1:1619:C:C2	1:C1:1620:C:C5	2.94	0.52
1:C1:1761:U:H1'	1:C1:1762:A:OP2	2.09	0.52
2:CA:169:SER:O	2:CA:170:ILE:C	2.52	0.52
4:CC:121:GLY:O	4:CC:122:VAL:C	2.52	0.52
5:CD:57:SER:C	5:CD:59:VAL:N	2.66	0.52
5:CD:212:LYS:O	5:CD:214:LYS:N	2.42	0.52
6:CE:72:GLU:O	6:CE:75:ALA:HB3	2.09	0.52
11:CJ:77:GLN:O	11:CJ:78:VAL:C	2.53	0.52
14:CM:101:ASN:C	14:CM:103:LYS:H	2.17	0.52
20:CS:41:GLN:CB	74:CS:101:OHX:N2	2.73	0.52
29:D1:25:U:H2'	29:D1:26:A:O4'	2.09	0.52
29:D1:72:C:C5	29:D1:73:C:C2	2.98	0.52
29:D1:80:G:N1	29:D1:81:C:C4	2.77	0.52
29:D1:85:A:H61	29:D1:99:A:H3'	1.75	0.52
29:D1:795:G:H1'	29:D1:1111:U:H5"	1.91	0.52
29:D1:809:G:H2'	29:D1:810:A:H8	1.74	0.52
29:D1:961:C:O2'	29:D1:962:A:OP2	2.27	0.52
29:D1:1059:G:O2'	49:DT:60:LYS:HA	2.09	0.52
29:D1:1110:U:H2'	29:D1:1110:U:O2	2.10	0.52
29:D1:1194:G:C2'	29:D1:1309:U:O2	2.57	0.52
29:D1:1224:C:P	29:D1:1224:C:O4'	2.68	0.52
29:D1:1278:A:H1'	29:D1:1279:C:H5'	1.90	0.52
29:D1:1302:A:C2	29:D1:2887:A:C5	2.98	0.52
29:D1:1517:G:O2'	29:D1:1518:U:H5'	2.10	0.52
29:D1:1697:A:C3'	29:D1:1698:C:H5'	2.39	0.52
29:D1:1913:A:H2'	29:D1:2115:G:O6	2.09	0.52
29:D1:2154:U:O2'	29:D1:2155:G:H5'	2.10	0.52
29:D1:2260:U:O2'	29:D1:2261:G:C8	2.62	0.52
29:D1:2300:G:C2	29:D1:2301:U:C6	2.97	0.52
29:D1:2316:G:H2'	29:D1:2317:A:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2328:U:H2'	29:D1:2329:C:H6	1.75	0.52
29:D1:2357:A:H8	29:D1:2357:A:O5'	1.93	0.52
29:D1:2406:C:H2'	29:D1:2407:C:C6	2.45	0.52
29:D1:2576:G:H2'	29:D1:2577:C:C6	2.43	0.52
29:D1:2617:U:C6	29:D1:2620:G:OP1	2.63	0.52
29:D1:2677:G:H21	29:D1:2678:A:H5'	1.73	0.52
29:D1:2689:A:C4	29:D1:2702:A:H2	2.27	0.52
29:D1:2779:A:C8	29:D1:2779:A:C5'	2.83	0.52
29:D1:2872:A:H1'	29:D1:2873:U:H5'	1.92	0.52
29:D1:2880:U:C4	29:D1:2881:C:N4	2.78	0.52
29:D1:2897:A:C6	29:D1:2904:U:O4	2.62	0.52
29:D1:3160:U:C4	29:D1:3161:C:N4	2.78	0.52
29:D1:3203:U:P	29:D1:3204:C:OP2	2.67	0.52
29:D1:3356:G:C2'	29:D1:3357:U:O5'	2.57	0.52
29:D1:3392:U:O2	29:D1:3393:U:C2	2.63	0.52
30:D2:78:U:C2	30:D2:79:A:H8	2.26	0.52
31:D3:2:A:OP1	74:D3:201:OHX:N4	2.43	0.52
31:D3:74:U:OP2	31:D3:76:C:N3	2.42	0.52
33:DB:236:GLY:O	33:DB:237:LEU:C	2.53	0.52
35:DD:209:TYR:HA	35:DD:249:ILE:O	2.09	0.52
36:DE:47:PRO:O	36:DE:48:LYS:CB	2.58	0.52
42:DK:90:GLN:HA	42:DK:169:ALA:O	2.09	0.52
45:DP:69:GLY:O	45:DP:70:PRO:C	2.52	0.52
45:DP:124:LEU:HA	45:DP:126:VAL:CA	2.35	0.52
46:DQ:25:SER:O	46:DQ:28:ASN:N	2.20	0.52
55:DZ:76:GLU:C	55:DZ:78:GLY:N	2.64	0.52
59:Dd:18:LEU:HA	59:Dd:25:ARG:HA	1.91	0.52
59:Dd:38:GLY:O	59:Dd:40:PRO:O	2.28	0.52
1:A1:3:U:O4'	3:AB:180:ALA:HA	2.09	0.52
1:A1:96:G:N2	1:A1:387:A:N1	2.53	0.52
1:A1:178:U:O4'	1:A1:178:U:OP1	2.28	0.52
1:A1:271:A:C2	1:A1:285:G:C6	2.98	0.52
1:A1:401:A:H4'	1:A1:402:C:OP2	2.09	0.52
1:A1:439:U:C1'	1:A1:440:U:OP1	2.57	0.52
1:A1:515:A:C2'	1:A1:516:G:OP1	2.57	0.52
1:A1:607:G:N7	1:A1:613:G:C8	2.78	0.52
1:A1:915:A:OP2	1:A1:915:A:C8	2.62	0.52
1:A1:920:U:OP2	1:A1:920:U:C6	2.63	0.52
1:A1:989:U:N3	1:A1:990:C:C4	2.77	0.52
1:A1:1045:C:C2'	1:A1:1046:G:OP1	2.57	0.52
1:A1:1239:U:O2'	1:A1:1240:U:C6	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1322:A:H2'	1:A1:1323:C:H6	1.74	0.52
1:A1:1325:A:H2'	1:A1:1326:A:H8	1.75	0.52
1:A1:1385:G:C4	1:A1:1386:G:C8	2.97	0.52
1:A1:1501:C:O2'	1:A1:1502:G:H5'	2.10	0.52
1:A1:1566:U:C2'	1:A1:1567:U:C5'	2.88	0.52
1:A1:1591:C:O2'	1:A1:1592:A:C5'	2.58	0.52
1:A1:1619:C:H2'	1:A1:1620:C:C6	2.45	0.52
1:A1:1682:U:OP2	1:A1:1682:U:C6	2.62	0.52
2:AA:38:PHE:CB	2:AA:39:ASN:HA	2.39	0.52
5:AD:45:LYS:O	5:AD:46:TRP:CB	2.58	0.52
20:AS:23:VAL:O	74:AS:101:OHX:N1	2.43	0.52
24:Ac:41:UNK:C	24:Ac:43:UNK:N	2.72	0.52
29:B1:46:U:H6	29:B1:46:U:O5'	1.93	0.52
29:B1:81:C:O2'	29:B1:82:C:C5'	2.45	0.52
29:B1:112:U:O2'	29:B1:113:C:P	2.67	0.52
29:B1:114:A:C2	29:B1:267:G:C4	2.98	0.52
29:B1:366:A:C6	29:B1:367:A:C4	2.97	0.52
29:B1:401:U:H5"	29:B1:403:C:O2	2.10	0.52
29:B1:520:U:H3	37:BF:138:GLN:CB	2.22	0.52
29:B1:532:A:C5	29:B1:533:A:C5	2.98	0.52
29:B1:627:U:O2'	29:B1:628:A:H5'	2.09	0.52
29:B1:661:G:C2	29:B1:802:C:C6	2.97	0.52
29:B1:705:A:H2	29:B1:714:G:N3	2.07	0.52
29:B1:733:G:N2	29:B1:734:C:H2'	2.25	0.52
29:B1:746:A:O5'	29:B1:746:A:C8	2.62	0.52
29:B1:799:G:N7	74:B1:3496:OHX:N6	2.57	0.52
29:B1:858:A:H3'	29:B1:859:G:C8	2.44	0.52
29:B1:1063:G:C1'	29:B1:1064:A:O5'	2.51	0.52
29:B1:1112:A:N6	29:B1:1113:G:N1	2.57	0.52
29:B1:1319:G:O2'	29:B1:1320:C:H6	1.92	0.52
29:B1:1459:C:O2'	29:B1:1460:A:H5'	2.09	0.52
29:B1:1658:G:C4	29:B1:1659:U:C6	2.97	0.52
29:B1:1752:A:OP2	74:B1:3568:OHX:N5	2.42	0.52
29:B1:1868:G:N7	29:B1:1869:C:C5	2.78	0.52
29:B1:1889:G:H2'	29:B1:1889:G:N3	2.23	0.52
29:B1:1901:A:HO2'	29:B1:2918:G:C5'	2.22	0.52
29:B1:2284:C:H1'	29:B1:2308:C:O2	2.09	0.52
29:B1:2285:C:H5	29:B1:2286:U:C4	2.27	0.52
29:B1:2397:A:H61	29:B1:2869:U:H1'	1.75	0.52
29:B1:2574:G:O2'	29:B1:2575:G:H5'	2.10	0.52
29:B1:2582:C:H3'	29:B1:2583:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2639:G:H5”	29:B1:2640:A:OP2	2.10	0.52
29:B1:2762:A:H3’	29:B1:2763:U:C5	2.44	0.52
29:B1:2815:G:H8	29:B1:2815:G:O5’	1.92	0.52
29:B1:3234:A:O2’	29:B1:3235:C:H5’	2.10	0.52
29:B1:3260:G:C6	29:B1:3261:C:H1’	2.44	0.52
29:B1:3314:A:H5”	34:BC:118:PHE:C	2.35	0.52
31:B3:87:G:O2’	31:B3:88:A:P	2.68	0.52
33:BB:6:ARG:O	33:BB:7:ASN:C	2.51	0.52
33:BB:206:PRO:C	33:BB:207:VAL:O	2.49	0.52
35:BD:8:VAL:C	35:BD:18:ASN:O	2.53	0.52
38:BG:22:THR:C	38:BG:24:GLU:H	2.16	0.52
39:BH:100:GLU:C	39:BH:103:ALA:H	2.17	0.52
40:BI:104:VAL:CB	40:BI:105:GLU:CA	2.88	0.52
41:BJ:155:ALA:O	41:BJ:158:LYS:O	2.27	0.52
43:BN:23:ILE:O	43:BN:24:LYS:CB	2.57	0.52
44:BO:85:THR:CA	44:BO:86:ASN:CB	2.87	0.52
44:BO:148:TYR:C	44:BO:150:TRP:H	2.18	0.52
54:BY:93:SER:O	54:BY:94:ALA:O	2.27	0.52
1:C1:4:C:H2’	1:C1:4:C:O2	2.09	0.52
1:C1:22:A:C2	1:C1:604:A:C2	2.98	0.52
1:C1:62:A:C4’	1:C1:63:G:OP2	2.57	0.52
1:C1:188:A:N6	1:C1:189:C:O2	2.43	0.52
1:C1:454:U:O2’	1:C1:455:C:O5’	2.27	0.52
1:C1:813:U:O2	1:C1:813:U:C2’	2.58	0.52
1:C1:929:A:H1’	9:CH:123:SER:HA	1.91	0.52
1:C1:966:A:O2’	1:C1:967:A:O5’	2.22	0.52
1:C1:1097:U:C2’	1:C1:1097:U:O2	2.57	0.52
1:C1:1241:G:N2	1:C1:1243:G:H3’	2.24	0.52
1:C1:1381:U:H2’	1:C1:1382:A:H5’	1.90	0.52
1:C1:1472:C:C5	1:C1:1474:G:C2	2.96	0.52
1:C1:1474:G:C6	1:C1:1475:A:N6	2.77	0.52
1:C1:1550:A:H2’	1:C1:1551:U:C6	2.44	0.52
1:C1:1786:G:C4	1:C1:1787:C:C5	2.98	0.52
3:CB:133:LYS:O	3:CB:135:SER:N	2.42	0.52
4:CC:46:THR:O	4:CC:85:VAL:N	2.42	0.52
17:CP:101:GLU:O	17:CP:127:VAL:CB	2.58	0.52
20:CS:24:CYS:O	74:CS:101:OHX:N4	2.42	0.52
20:CS:49:ASP:N	20:CS:50:ILE:CA	2.45	0.52
21:CT:194:GLY:O	21:CT:195:HIS:O	2.27	0.52
29:D1:25:U:C4	29:D1:331:G:C8	2.98	0.52
29:D1:365:A:N1	29:D1:366:A:C2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:372:A:C5	29:D1:373:A:C5	2.98	0.52
29:D1:641:C:H6	29:D1:641:C:H3'	1.75	0.52
29:D1:734:C:H5"	29:D1:735:A:C2	2.45	0.52
29:D1:953:G:O4'	29:D1:1115:G:H4'	2.10	0.52
29:D1:1157:G:N1	29:D1:1158:A:N3	2.58	0.52
29:D1:1180:A:C5	29:D1:1182:A:N7	2.77	0.52
29:D1:1259:A:H2'	29:D1:1280:C:O2'	2.09	0.52
29:D1:1260:A:H2'	29:D1:1261:G:O4'	2.10	0.52
29:D1:1265:U:O4	29:D1:1277:C:C5	2.63	0.52
29:D1:1282:G:H4'	73:DM:82:GLY:CA	2.40	0.52
29:D1:1357:G:H2'	29:D1:1358:C:H6	1.68	0.52
29:D1:1360:C:O2	29:D1:1360:C:H2'	2.08	0.52
29:D1:1393:A:H2	29:D1:1394:A:C4	2.27	0.52
29:D1:2261:G:N2	29:D1:2263:C:C4	2.78	0.52
29:D1:2725:U:H3'	29:D1:2725:U:C6	2.43	0.52
29:D1:2755:C:H2'	29:D1:2755:C:O2	2.08	0.52
29:D1:2945:G:N3	29:D1:2945:G:H5'	2.24	0.52
29:D1:3030:G:H2'	29:D1:3031:G:O4'	2.10	0.52
29:D1:3125:U:H2'	29:D1:3126:C:H5'	1.92	0.52
29:D1:3257:C:HO2'	29:D1:3258:U:H5	1.53	0.52
29:D1:3326:G:C2	29:D1:3327:G:N9	2.77	0.52
29:D1:3344:A:C4	29:D1:3361:G:O6	2.62	0.52
29:D1:3377:G:C4	74:D1:3452:OHX:N6	2.78	0.52
30:D2:47:C:O2	30:D2:48:U:C4	2.63	0.52
33:DB:214:GLY:O	33:DB:216:HIS:N	2.42	0.52
36:DE:227:LEU:HA	36:DE:228:ALA:HB3	1.91	0.52
42:DK:84:LEU:HA	42:DK:89:TYR:CB	2.39	0.52
42:DK:131:MET:O	42:DK:132:ASN:CB	2.57	0.52
43:DN:95:ALA:C	43:DN:97:SER:N	2.68	0.52
44:DO:134:LEU:O	44:DO:135:VAL:CB	2.57	0.52
54:DY:68:PHE:O	54:DY:69:TRP:CB	2.58	0.52
54:DY:129:PHE:CB	54:DY:130:VAL:CB	2.87	0.52
61:Df:76:LYS:C	61:Df:78:LYS:N	2.64	0.52
62:Dg:68:ALA:C	62:Dg:70:THR:H	2.17	0.52
1:A1:151:G:C2	1:A1:164:A:C2	2.98	0.52
1:A1:217:A:N3	1:A1:218:A:H5'	2.24	0.52
1:A1:561:G:C6	1:A1:585:A:N1	2.78	0.52
1:A1:1001:A:C8	1:A1:1002:G:N7	2.78	0.52
1:A1:1145:U:H3'	1:A1:1146:G:H5"	1.91	0.52
1:A1:1176:G:C6	1:A1:1177:C:C4	2.98	0.52
1:A1:1179:G:H3'	1:A1:1180:C:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1188:G:O2'	1:A1:1430:U:OP1	2.27	0.52
1:A1:1282:U:C2	1:A1:1283:U:C5	2.98	0.52
1:A1:1589:C:H2'	1:A1:1590:G:O4'	2.09	0.52
1:A1:1590:G:C6	1:A1:1591:C:N4	2.78	0.52
1:A1:1609:U:C5'	1:A1:1609:U:C6	2.92	0.52
1:A1:1753:A:N6	1:A1:1754:A:H62	2.06	0.52
1:A1:1753:A:C2	1:A1:1754:A:C2	2.97	0.52
1:A1:1759:C:H3'	1:A1:1760:G:H8	1.74	0.52
2:AA:201:LEU:O	2:AA:202:TYR:CB	2.58	0.52
4:AC:144:ALA:O	4:AC:145:ALA:CB	2.56	0.52
6:AE:54:ARG:O	6:AE:58:ASP:CB	2.58	0.52
7:AF:132:SER:O	7:AF:133:LYS:C	2.52	0.52
9:AH:49:LYS:O	9:AH:51:ASP:N	2.43	0.52
29:B1:107:A:O4'	29:B1:325:A:H1'	2.09	0.52
29:B1:124:U:C4	29:B1:125:C:C5	2.97	0.52
29:B1:264:G:N3	29:B1:264:G:H2'	2.23	0.52
29:B1:397:A:C6	29:B1:400:G:N1	2.77	0.52
29:B1:412:G:H2'	29:B1:413:U:H6	1.73	0.52
29:B1:520:U:H4'	29:B1:521:A:O5'	2.10	0.52
29:B1:550:A:C2	29:B1:551:A:C4	2.97	0.52
29:B1:572:A:N7	29:B1:573:C:C5	2.77	0.52
29:B1:733:G:N3	29:B1:733:G:H2'	2.24	0.52
29:B1:762:U:C2	29:B1:770:G:N2	2.77	0.52
29:B1:847:A:C6	29:B1:848:A:C6	2.97	0.52
29:B1:861:C:P	29:B1:862:U:OP2	2.68	0.52
29:B1:891:G:O2'	29:B1:892:U:C5'	2.58	0.52
29:B1:1174:G:H1'	29:B1:1181:U:C4	2.43	0.52
29:B1:1178:G:C2'	29:B1:1179:A:C5'	2.88	0.52
29:B1:1203:A:C2	29:B1:2855:U:O2	2.63	0.52
29:B1:1337:A:C4	29:B1:1338:C:C6	2.97	0.52
29:B1:1357:G:C2'	29:B1:1358:C:C6	2.89	0.52
29:B1:1393:A:H2'	29:B1:1394:A:H5"	1.91	0.52
29:B1:1394:A:C8	29:B1:1394:A:H3'	2.45	0.52
29:B1:1415:U:H5"	29:B1:1416:C:OP2	2.10	0.52
29:B1:1518:U:C2	29:B1:1519:G:C8	2.98	0.52
29:B1:1564:U:H2'	29:B1:1565:G:H8	1.75	0.52
29:B1:1607:U:OP2	29:B1:1607:U:C6	2.63	0.52
29:B1:1711:C:H2'	29:B1:1712:G:O4'	2.10	0.52
29:B1:1715:A:N6	29:B1:1716:U:C4	2.76	0.52
29:B1:1740:U:O2	29:B1:1741:A:N3	2.42	0.52
29:B1:1781:C:H2'	29:B1:1782:U:H5'	1.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1833:G:C2	29:B1:1834:U:O2	2.63	0.52
29:B1:2370:G:H8	29:B1:2370:G:O5'	1.93	0.52
29:B1:2544:U:H2'	29:B1:2545:C:C6	2.44	0.52
29:B1:2774:C:O2'	29:B1:2775:U:H5'	2.10	0.52
29:B1:2866:U:H1'	29:B1:2867:C:H5	1.74	0.52
29:B1:3000:A:H2'	29:B1:3001:C:C5	2.45	0.52
29:B1:3060:C:O2	29:B1:3331:U:O2'	2.26	0.52
29:B1:3086:A:C5	29:B1:3087:A:C5	2.98	0.52
29:B1:3215:A:C5'	29:B1:3218:A:C5'	2.84	0.52
31:B3:9:A:C5'	31:B3:10:A:OP2	2.57	0.52
31:B3:56:G:N2	31:B3:57:C:H1'	2.24	0.52
33:BB:231:SER:H	33:BB:233:GLN:H	1.57	0.52
36:BE:118:THR:C	36:BE:120:LYS:H	2.16	0.52
36:BE:158:ARG:O	36:BE:159:VAL:C	2.53	0.52
36:BE:253:PHE:N	36:BE:254:LYS:HA	2.25	0.52
36:BE:271:LYS:C	36:BE:275:THR:HA	2.35	0.52
39:BH:103:ALA:C	39:BH:105:LYS:H	2.17	0.52
42:BK:10:ARG:O	42:BK:11:ASP:CB	2.57	0.52
43:BN:24:LYS:HA	43:BN:31:LYS:N	2.24	0.52
45:BP:22:VAL:O	45:BP:23:VAL:O	2.26	0.52
45:BP:80:PHE:O	45:BP:83:ALA:HB3	2.09	0.52
47:BR:131:ALA:O	47:BR:133:LYS:N	2.43	0.52
47:BR:158:HIS:O	47:BR:159:LYS:CB	2.57	0.52
48:BS:127:SER:C	48:BS:129:GLY:N	2.64	0.52
57:Bb:31:ASN:O	57:Bb:33:ARG:N	2.40	0.52
1:C1:44:U:C3'	1:C1:45:U:H5'	2.39	0.52
1:C1:112:A:N6	1:C1:303:U:O2	2.43	0.52
1:C1:405:C:H2'	1:C1:405:C:O2	2.09	0.52
1:C1:432:G:H2'	1:C1:433:C:O4'	2.09	0.52
1:C1:439:U:O2'	1:C1:440:U:H4'	2.10	0.52
1:C1:486:G:H2'	1:C1:487:G:C4'	2.40	0.52
1:C1:528:U:O2	1:C1:528:U:O4'	2.28	0.52
1:C1:636:A:N1	1:C1:860:U:O4	2.42	0.52
1:C1:719:U:O2'	1:C1:720:G:C4	2.61	0.52
1:C1:860:U:O4	1:C1:861:U:N3	2.43	0.52
1:C1:940:A:H2'	1:C1:941:A:C8	2.44	0.52
1:C1:1030:A:H4'	1:C1:1031:U:OP2	2.10	0.52
1:C1:1244:A:N1	1:C1:1245:G:C4	2.76	0.52
1:C1:1379:C:H5'	1:C1:1380:U:OP2	2.09	0.52
1:C1:1418:G:H2'	1:C1:1419:G:H5'	1.92	0.52
1:C1:1433:G:N2	1:C1:1434:U:C5	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1575:G:C6	1:C1:1576:A:C6	2.97	0.52
1:C1:1583:A:C2	1:C1:1585:U:N3	2.78	0.52
1:C1:1679:G:N1	1:C1:1680:G:H1'	2.25	0.52
1:C1:1764:C:C6	1:C1:1767:G:N7	2.77	0.52
2:CA:63:ILE:C	2:CA:65:ALA:H	2.17	0.52
5:CD:55:ASP:O	5:CD:56:ALA:O	2.28	0.52
12:CK:64:GLY:HA2	12:CK:65:PRO:CB	2.39	0.52
17:CP:89:ASN:O	17:CP:90:ASP:CB	2.57	0.52
21:CT:48:THR:O	21:CT:49:GLY:C	2.52	0.52
29:D1:124:U:C2'	29:D1:125:C:O4'	2.46	0.52
29:D1:183:G:C6	29:D1:234:G:C6	2.98	0.52
29:D1:257:U:C2	29:D1:258:G:N7	2.78	0.52
29:D1:286:U:C2	29:D1:287:G:C5	2.98	0.52
29:D1:340:C:N4	31:D3:25:G:N1	2.58	0.52
29:D1:569:A:C2	29:D1:570:A:N9	2.78	0.52
29:D1:570:A:C6	29:D1:571:U:C4	2.98	0.52
29:D1:784:A:N3	29:D1:785:G:N7	2.58	0.52
29:D1:945:C:H3'	29:D1:946:U:H6	1.75	0.52
29:D1:980:A:H2'	29:D1:981:U:O4'	2.10	0.52
29:D1:1011:A:H2'	29:D1:1011:A:N3	2.24	0.52
29:D1:1013:G:O3'	29:D1:1014:U:H4'	2.08	0.52
29:D1:1063:G:C4	29:D1:1064:A:H4'	2.45	0.52
29:D1:1119:C:H2'	29:D1:1119:C:O2	2.10	0.52
29:D1:1198:C:H2'	29:D1:1200:A:H8	1.73	0.52
29:D1:1348:U:O2'	29:D1:1349:G:OP2	2.28	0.52
29:D1:1453:A:N9	29:D1:1850:A:C2	2.71	0.52
29:D1:1519:G:C2	29:D1:1520:G:C8	2.97	0.52
29:D1:1626:U:C4	29:D1:1627:U:C4	2.98	0.52
29:D1:1628:C:O2'	29:D1:1630:U:C5'	2.48	0.52
29:D1:1765:U:O5'	29:D1:1765:U:H6	1.92	0.52
29:D1:1860:G:H2'	29:D1:1861:G:H8	1.75	0.52
29:D1:1898:G:N7	29:D1:1899:G:C5	2.78	0.52
29:D1:1940:G:OP1	48:DS:75:HIS:HA	2.09	0.52
29:D1:2311:G:OP2	74:D1:3582:OHX:N5	2.43	0.52
29:D1:2513:U:H5	29:D1:2591:A:C6	2.27	0.52
29:D1:2773:C:H2'	29:D1:2774:C:H6	1.74	0.52
29:D1:3028:G:N2	29:D1:3029:A:C2	2.78	0.52
29:D1:3038:U:C2	29:D1:3039:C:C6	2.97	0.52
29:D1:3194:C:C6	29:D1:3194:C:C3'	2.93	0.52
29:D1:3206:C:O2'	74:D1:3597:OHX:N4	2.43	0.52
29:D1:3242:G:H2'	29:D1:3242:G:N3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3394:U:C2'	29:D1:3395:G:C8	2.93	0.52
30:D2:15:C:C4	30:D2:16:U:C4	2.98	0.52
30:D2:57:G:C8	30:D2:58:C:C5	2.97	0.52
31:D3:26:U:N3	31:D3:27:U:C4	2.77	0.52
31:D3:26:U:C4	31:D3:27:U:O4	2.63	0.52
31:D3:65:A:C6	31:D3:66:A:C5	2.97	0.52
31:D3:87:G:O2'	31:D3:88:A:P	2.67	0.52
31:D3:114:G:H2'	31:D3:115:C:H5'	1.90	0.52
31:D3:127:U:O2	31:D3:127:U:C2'	2.57	0.52
34:DC:29:VAL:O	34:DC:31:ALA:N	2.42	0.52
34:DC:198:HIS:O	34:DC:200:GLU:N	2.42	0.52
35:DD:42:VAL:C	35:DD:44:LYS:H	2.17	0.52
42:DK:22:SER:O	42:DK:23:VAL:O	2.26	0.52
44:DO:46:ASP:C	44:DO:48:ALA:H	2.17	0.52
48:DS:64:ARG:HA	48:DS:67:ALA:HB3	1.91	0.52
54:DY:130:VAL:O	54:DY:132:LYS:N	2.38	0.52
61:Df:3:ASN:HA	61:Df:93:LEU:O	2.09	0.52
62:Dg:60:CYS:N	74:Dg:101:OHX:N1	2.57	0.52
1:A1:4:C:H2'	1:A1:4:C:O2	2.08	0.52
1:A1:214:G:O2'	1:A1:215:A:OP1	2.24	0.52
1:A1:250:C:OP2	1:A1:250:C:C3'	2.44	0.52
1:A1:492:A:C5	1:A1:494:U:H5"	2.44	0.52
1:A1:556:A:O4'	1:A1:556:A:OP1	2.26	0.52
1:A1:601:A:C6	1:A1:602:U:C4	2.97	0.52
1:A1:604:A:H5"	1:A1:605:A:OP2	2.09	0.52
1:A1:629:U:O2	1:A1:971:A:C4	2.63	0.52
1:A1:738:G:O2'	1:A1:739:G:O4'	2.26	0.52
1:A1:819:G:N1	1:A1:853:G:N2	2.58	0.52
1:A1:828:U:C5	1:A1:829:A:C6	2.98	0.52
1:A1:850:A:N1	1:A1:851:U:C4	2.78	0.52
1:A1:860:U:H2'	1:A1:860:U:O2	2.09	0.52
1:A1:967:A:H2'	1:A1:968:U:C6	2.45	0.52
1:A1:1030:A:N7	1:A1:1792:G:C6	2.78	0.52
1:A1:1131:A:H3'	1:A1:1132:A:H8	1.75	0.52
1:A1:1165:G:C5	1:A1:1166:A:N7	2.77	0.52
1:A1:1332:C:O2	1:A1:1333:C:C6	2.62	0.52
1:A1:1348:A:C2	1:A1:1379:C:C6	2.98	0.52
1:A1:1499:G:O6	1:A1:1508:U:C2	2.59	0.52
1:A1:1685:G:N2	1:A1:1686:C:N3	2.58	0.52
74:A1:1916:OHX:N3	74:A1:1975:OHX:N3	2.58	0.52
2:AA:48:ILE:O	2:AA:49:ASN:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:176:LEU:O	2:AA:177:LEU:C	2.52	0.52
3:AB:80:VAL:HA	3:AB:102:VAL:CB	2.39	0.52
6:AE:81:VAL:O	6:AE:82:ARG:O	2.28	0.52
13:AL:70:VAL:O	13:AL:74:GLN:C	2.52	0.52
20:AS:26:SER:C	20:AS:28:THR:H	2.17	0.52
24:Ac:53:UNK:C	24:Ac:63:UNK:CB	2.88	0.52
29:B1:9:U:C4	29:B1:10:C:C5	2.97	0.52
29:B1:121:A:H5'	29:B1:150:A:H2	1.75	0.52
29:B1:180:C:H2'	29:B1:181:U:C6	2.45	0.52
29:B1:198:A:H1'	29:B1:218:G:C4	2.45	0.52
29:B1:198:A:C2	29:B1:219:A:C8	2.97	0.52
29:B1:253:A:N6	29:B1:254:A:C6	2.77	0.52
29:B1:278:U:N3	29:B1:279:U:C5	2.78	0.52
29:B1:347:G:N2	29:B1:353:G:C4	2.77	0.52
29:B1:416:A:C2	29:B1:417:A:N9	2.78	0.52
29:B1:532:A:C2'	29:B1:533:A:C8	2.93	0.52
29:B1:666:A:C5	29:B1:667:C:C5	2.98	0.52
29:B1:874:U:H2'	29:B1:875:G:OP2	2.09	0.52
29:B1:969:C:H2'	29:B1:969:C:O2	2.08	0.52
29:B1:992:A:C2	29:B1:993:G:C8	2.97	0.52
29:B1:1140:G:N3	29:B1:1141:C:C5	2.78	0.52
29:B1:1260:A:H3'	29:B1:1261:G:H21	1.75	0.52
29:B1:1302:A:N3	29:B1:2887:A:N3	2.58	0.52
29:B1:1413:G:N3	29:B1:1414:G:C8	2.77	0.52
29:B1:1442:U:C5'	29:B1:1442:U:H6	2.21	0.52
29:B1:1448:U:H5	29:B1:2355:G:N3	2.08	0.52
29:B1:1455:U:C2'	29:B1:1456:A:C8	2.93	0.52
29:B1:1623:G:N3	29:B1:1624:G:H1'	2.24	0.52
29:B1:1695:U:C2	29:B1:1749:A:C2	2.96	0.52
29:B1:1700:G:H2'	29:B1:1701:C:H6	1.75	0.52
29:B1:2147:A:O2'	29:B1:2148:U:O4'	2.20	0.52
29:B1:2193:U:H5"	29:B1:2312:A:N1	2.24	0.52
29:B1:2252:A:C4	29:B1:2253:G:C8	2.98	0.52
29:B1:2280:A:O2'	29:B1:2281:A:P	2.68	0.52
29:B1:2419:A:N6	29:B1:2804:A:N6	2.58	0.52
29:B1:2422:C:H2'	29:B1:2423:U:O5'	2.09	0.52
29:B1:2522:G:O2'	29:B1:2523:A:OP1	2.16	0.52
29:B1:2650:U:O2	29:B1:2650:U:C2'	2.58	0.52
29:B1:2847:A:N3	29:B1:2847:A:H2'	2.25	0.52
29:B1:2880:U:O2	34:BC:250:ALA:HB3	2.10	0.52
29:B1:2900:A:C2	29:B1:2901:G:N7	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3048:A:C8	29:B1:3090:U:C4	2.98	0.52
29:B1:3058:U:OP1	29:B1:3058:U:H3'	2.09	0.52
29:B1:3088:G:H3'	29:B1:3089:C:H6	1.74	0.52
29:B1:3141:A:H5'	29:B1:3143:C:H2'	1.90	0.52
29:B1:3182:G:O2'	29:B1:3183:A:C5'	2.58	0.52
29:B1:3237:U:O4	29:B1:3250:U:O4	2.28	0.52
29:B1:3250:U:O2'	29:B1:3251:U:H5'	2.10	0.52
29:B1:3252:G:H2'	29:B1:3253:G:H8	1.73	0.52
29:B1:3344:A:N6	29:B1:3362:A:C2	2.77	0.52
30:B2:14:U:C2'	30:B2:15:C:O4'	2.57	0.52
30:B2:42:A:C2	30:B2:47:C:C5	2.98	0.52
30:B2:48:U:C2'	30:B2:49:G:OP2	2.58	0.52
34:BC:165:GLN:O	34:BC:166:ILE:C	2.52	0.52
34:BC:257:PRO:CB	34:BC:259:HIS:N	2.73	0.52
36:BE:264:GLN:O	36:BE:283:ALA:C	2.53	0.52
38:BG:243:MET:O	38:BG:244:ASN:CB	2.58	0.52
42:BK:50:ALA:O	42:BK:52:TYR:N	2.43	0.52
47:BR:145:ASN:HA	47:BR:146:SER:CB	2.40	0.52
50:BU:81:GLN:O	50:BU:82:ALA:HB2	2.09	0.52
57:Bb:114:ALA:O	57:Bb:116:GLY:N	2.42	0.52
65:Bk:16:UNK:C	65:Bk:18:UNK:N	2.70	0.52
1:C1:303:U:H2'	1:C1:304:U:H6	1.75	0.52
1:C1:328:A:C2	1:C1:329:G:C4	2.98	0.52
1:C1:468:A:N6	1:C1:595:G:C6	2.73	0.52
1:C1:718:U:H3'	1:C1:720:G:N1	2.25	0.52
1:C1:719:U:O2'	1:C1:720:G:N9	2.42	0.52
1:C1:900:A:H4'	1:C1:916:U:H1'	1.92	0.52
1:C1:1116:A:H1'	1:C1:1131:A:N6	2.25	0.52
1:C1:1282:U:C2	1:C1:1283:U:C6	2.97	0.52
1:C1:1403:C:C2'	1:C1:1404:C:H5'	2.40	0.52
1:C1:1491:U:C2'	1:C1:1492:A:H2'	2.40	0.52
1:C1:1516:A:C8	15:CN:16:GLN:CB	2.89	0.52
1:C1:1683:C:H4'	1:C1:1684:U:C4	2.43	0.52
3:CB:188:LEU:O	3:CB:190:LEU:N	2.42	0.52
5:CD:93:LEU:C	5:CD:95:ASN:H	2.17	0.52
5:CD:176:THR:O	5:CD:179:ALA:HB3	2.09	0.52
9:CH:43:THR:O	9:CH:44:GLY:C	2.52	0.52
10:CI:80:MET:C	10:CI:82:ASN:N	2.64	0.52
29:D1:60:A:C4	29:D1:328:U:N3	2.75	0.52
29:D1:190:U:H3	29:D1:221:A:H61	1.58	0.52
29:D1:412:G:H2'	29:D1:413:U:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:516:A:C3'	29:D1:517:G:H8	2.14	0.52
29:D1:547:G:H2'	29:D1:548:G:H5'	1.92	0.52
29:D1:574:U:H2'	29:D1:575:G:H5"	0.76	0.52
29:D1:606:C:C2	29:D1:607:A:C4	2.98	0.52
29:D1:865:U:O4	29:D1:866:A:C6	2.63	0.52
29:D1:1464:G:N3	29:D1:1464:G:H2'	2.23	0.52
29:D1:1468:A:O2'	29:D1:1469:C:C5'	2.58	0.52
29:D1:1470:U:C2	29:D1:1471:U:C5	2.98	0.52
29:D1:1609:C:O2'	29:D1:1610:G:P	2.68	0.52
29:D1:1639:C:C2'	29:D1:1640:G:O5'	2.58	0.52
29:D1:1678:G:C8	29:D1:1678:G:OP2	2.62	0.52
29:D1:1706:C:H3'	29:D1:1707:A:H8	1.75	0.52
29:D1:2148:U:H3'	29:D1:2187:G:H22	1.72	0.52
29:D1:2166:A:H2'	29:D1:2167:A:C8	2.45	0.52
29:D1:2206:G:H2'	29:D1:2207:A:H5'	1.92	0.52
29:D1:2515:A:C6	29:D1:2593:A:C5	2.97	0.52
29:D1:2530:G:C8	29:D1:2530:G:OP2	2.62	0.52
29:D1:2628:A:C4	29:D1:2798:C:N4	2.78	0.52
29:D1:2658:G:C6	29:D1:2659:G:N7	2.77	0.52
29:D1:2717:U:C5'	29:D1:2717:U:H6	2.22	0.52
29:D1:2773:C:C2	29:D1:2774:C:C5	2.97	0.52
29:D1:2829:U:C2'	29:D1:2830:G:H5'	2.39	0.52
29:D1:2834:G:O2'	29:D1:2835:U:C6	2.53	0.52
29:D1:3221:C:O5'	29:D1:3221:C:H6	1.93	0.52
29:D1:3238:G:O2'	29:D1:3239:G:H5'	2.10	0.52
30:D2:30:G:C6	30:D2:49:G:C6	2.97	0.52
30:D2:94:C:O2	30:D2:95:A:C8	2.63	0.52
31:D3:71:A:N6	31:D3:87:G:C5	2.77	0.52
31:D3:94:C:C4'	31:D3:95:G:OP2	2.51	0.52
34:DC:81:THR:O	34:DC:83:PRO:N	2.42	0.52
35:DD:164:GLU:O	35:DD:168:ALA:HB2	2.09	0.52
42:DK:139:THR:CB	42:DK:146:GLY:O	2.58	0.52
53:DX:56:VAL:HA	53:DX:107:THR:H	1.75	0.52
58:Dc:5:LYS:C	58:Dc:7:TYR:N	2.66	0.52
59:Dd:59:THR:C	59:Dd:61:THR:N	2.58	0.52
1:A1:62:A:C2	1:A1:63:G:C5	2.98	0.52
1:A1:247:A:H3'	1:A1:247:A:C8	2.44	0.52
1:A1:283:U:C2'	1:A1:284:G:O4'	2.56	0.52
1:A1:452:A:N1	1:A1:454:U:OP2	2.43	0.52
1:A1:609:U:H5"	1:A1:610:G:C8	2.45	0.52
1:A1:743:U:C4	1:A1:809:A:N3	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:932:U:O4'	1:A1:933:A:C2	2.62	0.52
1:A1:932:U:O4'	1:A1:933:A:N3	2.43	0.52
1:A1:989:U:H2'	1:A1:990:C:O4'	2.10	0.52
1:A1:1006:C:OP1	74:A1:1903:OHX:N5	2.43	0.52
1:A1:1051:G:N2	1:A1:1052:U:H3	2.07	0.52
1:A1:1388:A:C5	1:A1:1411:A:N6	2.78	0.52
1:A1:1429:G:C6	1:A1:1430:U:C4	2.98	0.52
1:A1:1458:G:H3'	1:A1:1459:C:C5	2.45	0.52
1:A1:1670:G:H21	1:A1:1732:A:N6	2.06	0.52
1:A1:1744:A:N6	1:A1:1745:G:C6	2.77	0.52
2:AA:63:ILE:C	2:AA:65:ALA:H	2.16	0.52
5:AD:59:VAL:O	5:AD:61:TYR:N	2.36	0.52
5:AD:132:VAL:O	5:AD:136:ALA:HB2	2.09	0.52
6:AE:179:ARG:C	6:AE:181:ALA:H	2.16	0.52
10:AI:75:PRO:O	10:AI:93:VAL:O	2.28	0.52
14:AM:26:GLY:C	14:AM:28:LEU:H	2.16	0.52
14:AM:103:LYS:C	14:AM:105:LEU:N	2.68	0.52
24:Ac:49:UNK:O	24:Ac:50:UNK:CB	2.58	0.52
29:B1:109:A:C6	29:B1:323:A:C4	2.97	0.52
29:B1:156:G:C1'	29:B1:157:A:OP1	2.57	0.52
29:B1:173:G:O6	29:B1:245:U:O2	2.27	0.52
29:B1:192:C:C2	29:B1:193:C:C6	2.98	0.52
29:B1:346:C:C4	29:B1:348:A:C8	2.98	0.52
29:B1:425:G:C6	29:B1:635:G:C2	2.98	0.52
29:B1:440:A:H2'	29:B1:440:A:N3	2.25	0.52
29:B1:750:G:H1	29:B1:784:A:H1'	1.73	0.52
29:B1:1018:G:C6	74:B1:3529:OHX:N1	2.78	0.52
29:B1:1140:G:N3	29:B1:1141:C:C6	2.78	0.52
29:B1:1179:A:H3'	29:B1:1179:A:H8	1.73	0.52
29:B1:1183:C:H2'	29:B1:1184:A:C5'	2.39	0.52
29:B1:1565:G:N1	29:B1:1566:A:H1'	2.24	0.52
29:B1:1751:G:C6	29:B1:1752:A:C5	2.98	0.52
29:B1:2178:A:P	33:BB:126:LEU:HA	2.50	0.52
29:B1:2259:A:C5	29:B1:2260:U:C2	2.98	0.52
29:B1:2262:A:C5'	29:B1:2263:C:OP2	2.58	0.52
29:B1:2296:A:N3	29:B1:2919:A:H1'	2.24	0.52
29:B1:2476:C:H2'	29:B1:2477:G:H4'	1.92	0.52
29:B1:2618:G:H4'	29:B1:2619:G:OP2	2.09	0.52
29:B1:2639:G:C2	29:B1:2640:A:C4	2.97	0.52
29:B1:2702:A:N7	29:B1:2704:A:N6	2.57	0.52
29:B1:2713:U:H4'	29:B1:2714:G:OP1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2929:C:H3'	29:B1:2929:C:C6	2.45	0.52
29:B1:3273:A:C4	29:B1:3274:A:C8	2.98	0.52
29:B1:3349:C:C4	29:B1:3350:C:N4	2.78	0.52
29:B1:3365:U:C2	29:B1:3366:G:N7	2.78	0.52
30:B2:54:U:O2	30:B2:54:U:C2'	2.56	0.52
30:B2:69:C:C2	30:B2:110:G:C2	2.98	0.52
30:B2:77:G:N3	30:B2:101:G:C6	2.78	0.52
30:B2:78:U:C2	30:B2:79:A:C8	2.98	0.52
33:BB:11:GLY:O	33:BB:12:ALA:C	2.52	0.52
33:BB:207:VAL:O	33:BB:208:ASP:O	2.27	0.52
34:BC:268:GLY:O	34:BC:269:GLN:CB	2.58	0.52
35:BD:162:THR:O	35:BD:165:ALA:HB3	2.10	0.52
45:BP:174:PHE:O	45:BP:175:THR:C	2.53	0.52
46:BQ:28:ASN:O	46:BQ:30:ARG:N	2.43	0.52
57:Bb:110:ALA:O	57:Bb:113:LYS:CB	2.57	0.52
58:Bc:32:LYS:C	58:Bc:34:GLN:N	2.66	0.52
1:C1:361:C:N4	1:C1:384:G:C6	2.69	0.52
1:C1:446:A:C6	1:C1:447:U:C4	2.98	0.52
1:C1:472:U:C5	1:C1:473:A:C8	2.98	0.52
1:C1:684:A:H5'	1:C1:685:A:OP2	2.10	0.52
1:C1:887:A:C6	1:C1:888:U:C4	2.97	0.52
1:C1:931:C:C2'	1:C1:932:U:OP1	2.57	0.52
1:C1:966:A:C2'	1:C1:967:A:O5'	2.58	0.52
1:C1:1026:A:C2	1:C1:1792:G:C4	2.98	0.52
1:C1:1463:C:O2'	1:C1:1464:G:H5'	2.10	0.52
1:C1:1475:A:C5	1:C1:1476:C:C5	2.97	0.52
1:C1:1586:A:OP1	11:CJ:134:ALA:HB3	2.10	0.52
1:C1:1689:A:N3	1:C1:1689:A:C2'	2.72	0.52
1:C1:1689:A:N6	1:C1:1716:C:C2	2.78	0.52
1:C1:1713:G:N2	1:C1:1714:A:N9	2.57	0.52
1:C1:1720:G:C2	1:C1:1721:A:H1'	2.45	0.52
1:C1:1756:A:H2'	1:C1:1757:G:H5'	1.91	0.52
5:CD:47:SER:O	5:CD:48:PHE:CB	2.58	0.52
5:CD:198:LEU:O	5:CD:201:ALA:HB3	2.10	0.52
9:CH:39:ILE:O	9:CH:40:ALA:CB	2.57	0.52
15:CN:23:ARG:O	15:CN:24:ILE:C	2.53	0.52
25:Cd:101:UNK:C	25:Cd:103:UNK:N	2.72	0.52
29:D1:15:C:O2	29:D1:15:C:O4'	2.28	0.52
29:D1:25:U:N3	29:D1:26:A:C5	2.77	0.52
29:D1:47:C:OP2	29:D1:48:A:O2'	2.28	0.52
29:D1:71:A:H5"	29:D1:73:C:N3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:334:A:N3	29:D1:335:G:C8	2.77	0.52
29:D1:359:U:O4	29:D1:360:G:C6	2.63	0.52
29:D1:432:G:N3	29:D1:433:A:C8	2.77	0.52
29:D1:513:G:C2	29:D1:577:C:N3	2.69	0.52
29:D1:536:U:O2'	29:D1:538:G:N7	2.42	0.52
29:D1:608:A:C2'	29:D1:609:G:O5'	2.58	0.52
29:D1:642:U:C6	29:D1:644:G:OP2	2.62	0.52
29:D1:661:G:C2	29:D1:802:C:H6	2.26	0.52
29:D1:735:A:C4	29:D1:735:A:OP2	2.62	0.52
29:D1:759:U:O4	29:D1:760:G:N1	2.43	0.52
29:D1:822:G:C4	29:D1:823:C:C6	2.98	0.52
29:D1:1066:G:O5'	29:D1:1067:U:OP2	2.27	0.52
29:D1:1203:A:H2	29:D1:2855:U:O2	1.93	0.52
29:D1:1209:G:C8	29:D1:1210:U:C5	2.98	0.52
29:D1:1212:A:C2	29:D1:1213:G:C8	2.98	0.52
29:D1:1240:A:H3'	29:D1:1241:U:H5"	1.91	0.52
29:D1:1386:A:O2'	29:D1:1387:G:OP2	2.22	0.52
29:D1:1421:G:N2	29:D1:1422:G:C4	2.78	0.52
29:D1:1610:G:H2'	29:D1:1611:G:C8	2.45	0.52
29:D1:1678:G:C2	29:D1:1679:A:C5	2.97	0.52
29:D1:1743:G:C2'	29:D1:1744:G:H5'	2.40	0.52
29:D1:1797:A:H2'	29:D1:1798:A:H8	1.75	0.52
29:D1:1867:A:H2'	29:D1:1868:G:H8	1.75	0.52
29:D1:2114:C:H5"	29:D1:2116:G:C8	2.45	0.52
29:D1:2180:G:H2'	29:D1:2181:C:C6	2.45	0.52
29:D1:2247:G:H2'	29:D1:2247:G:N3	2.23	0.52
29:D1:2372:A:O2'	29:D1:2373:A:P	2.66	0.52
29:D1:2572:C:N4	29:D1:2573:G:C6	2.78	0.52
29:D1:2653:C:OP2	61:Df:89:LYS:O	2.28	0.52
29:D1:2658:G:C4	29:D1:2659:G:C8	2.97	0.52
29:D1:2660:G:H4'	29:D1:2750:U:O2	2.09	0.52
29:D1:2880:U:H1'	34:DC:250:ALA:CB	2.39	0.52
29:D1:2998:U:OP1	29:D1:3396:U:O4'	2.27	0.52
29:D1:3049:A:C6	29:D1:3050:U:C2	2.98	0.52
29:D1:3066:U:H2'	29:D1:3067:C:C6	2.44	0.52
29:D1:3069:G:C2	29:D1:3070:A:C5	2.97	0.52
29:D1:3069:G:N1	29:D1:3070:A:C5	2.77	0.52
29:D1:3069:G:C6	29:D1:3070:A:N7	2.78	0.52
29:D1:3298:C:N4	29:D1:3299:A:H62	2.07	0.52
30:D2:46:A:O2'	30:D2:47:C:H5'	2.09	0.52
30:D2:70:U:C2	30:D2:71:G:C8	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:56:G:N2	31:D3:57:C:H1'	2.25	0.52
31:D3:95:G:OP1	31:D3:96:A:OP2	2.28	0.52
31:D3:119:C:O2'	31:D3:120:C:H5'	2.09	0.52
31:D3:140:G:C5	31:D3:141:C:C4	2.98	0.52
33:DB:113:VAL:O	33:DB:114:SER:C	2.53	0.52
37:DF:152:THR:HA	37:DF:156:LYS:CB	2.39	0.52
37:DF:162:SER:C	37:DF:165:LEU:H	2.17	0.52
40:DI:170:LYS:O	40:DI:172:ILE:N	2.42	0.52
41:DJ:170:LYS:O	41:DJ:178:ARG:N	2.43	0.52
44:DO:157:LYS:C	44:DO:159:ARG:N	2.68	0.52
44:DO:175:ASN:O	44:DO:176:LYS:CB	2.57	0.52
56:Da:58:ALA:O	56:Da:60:TRP:N	2.43	0.52
56:Da:60:TRP:C	56:Da:62:ARG:H	2.17	0.52
1:A1:15:U:H1'	1:A1:619:A:C2	2.45	0.52
1:A1:23:G:H2'	1:A1:24:U:C6	2.45	0.52
1:A1:136:C:O2'	1:A1:137:U:OP1	2.26	0.52
1:A1:173:A:N1	1:A1:174:U:C1'	2.68	0.52
1:A1:418:G:N2	1:A1:419:G:C4	2.78	0.52
1:A1:537:G:N2	1:A1:538:A:C1'	2.73	0.52
1:A1:563:U:C5'	1:A1:564:G:OP2	2.58	0.52
1:A1:633:U:H2'	1:A1:633:U:O2	2.09	0.52
1:A1:789:A:H2'	1:A1:789:A:N3	2.24	0.52
1:A1:867:G:C2	1:A1:868:G:C4	2.98	0.52
1:A1:1042:G:C6	1:A1:1043:A:C6	2.97	0.52
1:A1:1073:G:C6	1:A1:1074:G:C5	2.98	0.52
1:A1:1125:A:N7	1:A1:1126:G:H1'	2.25	0.52
1:A1:1232:U:P	1:A1:1258:U:O2'	2.68	0.52
1:A1:1267:G:H21	1:A1:1448:G:C4'	2.22	0.52
1:A1:1377:U:O2	1:A1:1378:U:C1'	2.57	0.52
1:A1:1408:G:H1'	1:A1:1409:G:C2	2.45	0.52
1:A1:1454:G:C3'	1:A1:1455:G:H5'	2.40	0.52
1:A1:1570:A:N3	1:A1:1571:C:H1'	2.24	0.52
1:A1:1619:C:N3	1:A1:1620:C:H5	2.08	0.52
4:AC:66:ILE:O	4:AC:68:GLU:N	2.42	0.52
4:AC:80:ALA:C	4:AC:82:GLY:N	2.68	0.52
17:AP:87:VAL:O	17:AP:88:PRO:C	2.53	0.52
21:AT:39:ASP:O	21:AT:40:LYS:CB	2.58	0.52
25:Ad:97:UNK:C	25:Ad:99:UNK:N	2.69	0.52
28:Ah:19:UNK:O	28:Ah:23:UNK:N	2.43	0.52
29:B1:92:G:C6	29:B1:94:G:N2	2.78	0.52
29:B1:282:G:N3	29:B1:286:U:C4'	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:307:A:C8	29:B1:307:A:C3'	2.93	0.52
29:B1:311:C:N4	29:B1:312:C:C4	2.78	0.52
29:B1:516:A:N3	29:B1:516:A:H2'	2.25	0.52
29:B1:592:A:N1	29:B1:593:C:C6	2.77	0.52
29:B1:606:C:C4	29:B1:607:A:N6	2.77	0.52
29:B1:639:G:C2'	29:B1:640:U:H5'	2.40	0.52
29:B1:651:G:O2'	29:B1:652:G:H5'	2.09	0.52
29:B1:759:U:C5	29:B1:773:G:O6	2.63	0.52
29:B1:964:G:H4'	54:BY:28:HIS:O	2.09	0.52
29:B1:980:A:O4'	29:B1:980:A:OP2	2.27	0.52
29:B1:1034:U:O2	29:B1:1034:U:O4'	2.25	0.52
29:B1:1077:U:O2'	29:B1:1078:U:O4'	2.27	0.52
29:B1:1176:C:H3'	29:B1:1177:G:C5'	2.39	0.52
29:B1:1560:G:H22	29:B1:1579:C:H1'	1.73	0.52
29:B1:1626:U:N3	29:B1:1627:U:C4	2.78	0.52
29:B1:1666:G:C2'	29:B1:1667:A:H5'	2.40	0.52
29:B1:1852:G:C4	29:B1:1853:U:C5	2.97	0.52
29:B1:1939:G:H2'	29:B1:1940:G:C5'	2.39	0.52
29:B1:2113:A:H62	29:B1:2114:C:N4	2.08	0.52
29:B1:2137:U:C2	29:B1:2141:U:H5	2.28	0.52
29:B1:2530:G:O2'	29:B1:2531:C:P	2.68	0.52
29:B1:2582:C:O2	29:B1:2582:C:H2'	2.08	0.52
29:B1:2595:A:C8	29:B1:2596:U:C5	2.98	0.52
29:B1:2822:U:H2'	29:B1:2823:G:O5'	2.10	0.52
29:B1:3011:A:H1'	29:B1:3012:A:C1'	2.39	0.52
29:B1:3214:U:HO2'	29:B1:3218:A:P	2.31	0.52
29:B1:3215:A:P	29:B1:3218:A:C5'	2.98	0.52
29:B1:3234:A:N1	29:B1:3235:C:C4	2.78	0.52
29:B1:3245:A:C2	29:B1:3246:G:H1'	2.45	0.52
29:B1:3273:A:O4'	29:B1:3273:A:P	2.67	0.52
29:B1:3281:U:C2	29:B1:3282:U:N3	2.78	0.52
29:B1:3350:C:O3'	29:B1:3354:U:C5	2.63	0.52
30:B2:15:C:C4	30:B2:16:U:C4	2.97	0.52
30:B2:112:G:O5'	30:B2:113:C:OP2	2.27	0.52
30:B2:112:G:P	30:B2:113:C:P	3.08	0.52
31:B3:64:U:N3	31:B3:97:A:C2	2.77	0.52
31:B3:101:U:C2'	31:B3:102:U:O5'	2.58	0.52
42:BK:32:ARG:O	42:BK:33:ALA:C	2.53	0.52
42:BK:131:MET:O	42:BK:132:ASN:CB	2.58	0.52
42:BK:139:THR:CB	42:BK:146:GLY:O	2.58	0.52
48:BS:143:ILE:O	48:BS:144:GLN:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BU:127:PRO:O	50:BU:130:ALA:CB	2.58	0.52
52:BW:132:ALA:O	52:BW:133:LEU:C	2.53	0.52
54:BY:35:ALA:O	54:BY:36:GLY:C	2.52	0.52
55:BZ:51:LEU:O	55:BZ:53:LYS:N	2.37	0.52
57:Bb:61:LYS:O	57:Bb:63:THR:N	2.42	0.52
60:Be:7:PHE:O	60:Be:8:ARG:C	2.52	0.52
61:Bf:11:TYR:HA	61:Bf:20:HIS:HA	1.90	0.52
61:Bf:38:GLN:C	61:Bf:40:LYS:N	2.68	0.52
1:C1:34:G:H2'	1:C1:35:U:C6	2.45	0.52
1:C1:93:A:N7	1:C1:398:G:H2'	2.23	0.52
1:C1:195:G:O2'	1:C1:196:G:C5'	2.58	0.52
1:C1:353:A:OP2	74:C1:1908:OHX:N6	2.42	0.52
1:C1:617:U:H2'	1:C1:618:U:C5	2.45	0.52
1:C1:642:G:C6	1:C1:643:G:C5	2.98	0.52
1:C1:824:G:H5"	1:C1:825:U:C5'	2.40	0.52
1:C1:844:A:N6	74:C1:1917:OHX:N1	2.56	0.52
1:C1:847:A:C2'	1:C1:848:C:H5"	2.38	0.52
1:C1:880:C:H2'	1:C1:881:A:C8	2.45	0.52
1:C1:940:A:C2	1:C1:941:A:C4	2.98	0.52
1:C1:947:U:H2'	1:C1:948:G:O4'	2.10	0.52
1:C1:956:C:H5"	1:C1:1073:G:O2'	2.10	0.52
1:C1:1203:A:C2	1:C1:1556:A:C4	2.98	0.52
1:C1:1230:A:H2'	1:C1:1230:A:N3	2.25	0.52
1:C1:1355:C:O2'	1:C1:1356:U:H5'	2.09	0.52
1:C1:1504:G:C6	1:C1:1505:A:C6	2.97	0.52
1:C1:1512:G:H2'	1:C1:1513:G:H8	1.75	0.52
1:C1:1540:G:C5	1:C1:1541:G:C5	2.97	0.52
1:C1:1600:A:OP1	1:C1:1600:A:C4'	2.51	0.52
1:C1:1662:G:H2'	1:C1:1663:G:H8	1.75	0.52
3:CB:152:HIS:C	3:CB:154:LEU:N	2.68	0.52
3:CB:170:ILE:O	3:CB:196:VAL:HA	2.10	0.52
15:CN:28:SER:O	15:CN:87:HIS:O	2.28	0.52
29:D1:96:G:C2	29:D1:97:U:C6	2.98	0.52
29:D1:224:C:C2'	29:D1:225:C:O5'	2.58	0.52
29:D1:397:A:C6	29:D1:400:G:C6	2.98	0.52
29:D1:431:U:H5'	29:D1:431:U:H6	1.75	0.52
29:D1:563:U:O4	29:D1:564:G:C8	2.63	0.52
29:D1:583:G:N1	29:D1:584:G:C5	2.78	0.52
29:D1:639:G:O2'	29:D1:640:U:H5'	2.10	0.52
29:D1:779:G:C4	29:D1:780:A:N7	2.77	0.52
29:D1:889:U:H2'	29:D1:890:C:C6	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:951:A:N3	29:D1:1369:A:N1	2.58	0.52
29:D1:960:U:O2	29:D1:960:U:O4'	2.28	0.52
29:D1:986:U:O2	29:D1:987:U:C6	2.62	0.52
29:D1:1056:U:O5'	29:D1:1056:U:C6	2.60	0.52
29:D1:1223:A:O2'	29:D1:1284:C:N4	2.43	0.52
29:D1:1270:A:H3'	29:D1:1271:A:H8	1.75	0.52
29:D1:1345:G:N7	74:D1:3480:OHX:N6	2.57	0.52
29:D1:1414:G:C4	29:D1:1415:U:C6	2.98	0.52
29:D1:1500:G:C6	29:D1:1517:G:C6	2.98	0.52
29:D1:1517:G:C6	29:D1:1518:U:O4	2.63	0.52
29:D1:1556:C:H2'	29:D1:1556:C:O2	2.09	0.52
29:D1:1638:A:C2	29:D1:1736:G:N3	2.78	0.52
29:D1:1662:G:H1	29:D1:1787:A:N6	2.06	0.52
29:D1:1673:G:C4	29:D1:1775:G:C2	2.98	0.52
29:D1:1931:U:C2	29:D1:2121:G:N3	2.78	0.52
29:D1:1941:C:OP2	48:DS:75:HIS:HA	2.09	0.52
29:D1:2137:U:OP1	29:D1:2137:U:C4'	2.54	0.52
29:D1:2252:A:N3	29:D1:2253:G:C8	2.78	0.52
29:D1:2374:C:H2'	29:D1:2374:C:O2	2.10	0.52
29:D1:2717:U:O4	29:D1:2740:A:C6	2.63	0.52
29:D1:2888:U:C6	29:D1:2910:A:N1	2.78	0.52
29:D1:3260:G:C6	29:D1:3261:C:C1'	2.93	0.52
29:D1:3326:G:N1	29:D1:3327:G:C5	2.77	0.52
29:D1:3332:U:H2'	29:D1:3333:G:OP2	2.10	0.52
29:D1:3351:U:OP2	29:D1:3351:U:C2	2.63	0.52
30:D2:12:U:C3'	30:D2:13:A:N1	2.71	0.52
30:D2:12:U:OP2	30:D2:68:C:O3'	2.28	0.52
30:D2:65:G:C2'	30:D2:66:A:O5'	2.58	0.52
31:D3:9:A:C5'	31:D3:10:A:OP2	2.57	0.52
31:D3:58:G:C2'	31:D3:99:C:O2'	2.58	0.52
31:D3:113:U:O2	31:D3:114:G:C8	2.63	0.52
33:DB:18:SER:C	33:DB:20:THR:H	2.18	0.52
34:DC:278:ILE:O	34:DC:280:HIS:N	2.41	0.52
35:DD:54:GLU:C	35:DD:56:ALA:H	2.18	0.52
39:DH:123:GLN:HA	39:DH:126:SER:CB	2.40	0.52
40:DI:40:HIS:O	40:DI:42:ASP:N	2.43	0.52
40:DI:134:ILE:HA	40:DI:146:LEU:CB	2.40	0.52
41:DJ:69:ARG:O	41:DJ:70:ILE:C	2.51	0.52
73:DM:14:LYS:O	73:DM:18:TYR:N	2.41	0.52
44:DO:85:THR:CA	44:DO:87:GLN:N	2.73	0.52
48:DS:12:ALA:O	48:DS:14:VAL:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DU:94:TYR:O	50:DU:95:PHE:CB	2.58	0.52
56:Da:30:PRO:O	56:Da:32:ALA:N	2.43	0.52
1:A1:37:U:P	1:A1:531:C:HO2'	2.33	0.52
1:A1:104:A:C5'	1:A1:105:A:OP2	2.58	0.52
1:A1:177:U:H3'	1:A1:178:U:C5'	2.35	0.52
1:A1:290:G:H2'	1:A1:291:G:N7	2.24	0.52
1:A1:381:C:O2'	1:A1:755:A:N1	2.42	0.52
1:A1:409:C:O4'	1:A1:1732:A:H4'	2.10	0.52
1:A1:446:A:H2'	1:A1:447:U:H6	1.75	0.52
1:A1:518:A:C6	1:A1:535:A:N3	2.77	0.52
1:A1:602:U:C2	1:A1:603:U:C5	2.98	0.52
1:A1:620:A:H2'	1:A1:621:A:C4	2.45	0.52
1:A1:809:A:O2'	1:A1:810:G:H5'	2.10	0.52
1:A1:1043:A:C4	1:A1:1044:U:H5	2.28	0.52
1:A1:1053:G:C2	1:A1:1067:C:H1'	2.45	0.52
1:A1:1116:A:C5	1:A1:1117:U:C4	2.98	0.52
1:A1:1181:U:H2'	1:A1:1182:U:O5'	2.10	0.52
1:A1:1353:U:H3'	1:A1:1354:G:H8	1.73	0.52
1:A1:1478:G:O2'	1:A1:1479:A:O4'	2.28	0.52
1:A1:1545:A:OP1	13:AL:132:ARG:HA	2.09	0.52
1:A1:1560:U:O5'	1:A1:1560:U:C6	2.63	0.52
1:A1:1595:U:H6	1:A1:1596:C:C2	2.27	0.52
1:A1:1778:G:C6	1:A1:1779:U:O4	2.63	0.52
8:AG:114:ARG:O	8:AG:117:LEU:N	2.43	0.52
14:AM:130:ARG:O	14:AM:131:ASP:C	2.53	0.52
16:AO:88:LYS:C	16:AO:90:THR:N	2.67	0.52
18:AQ:41:ILE:HA	18:AQ:44:GLN:N	2.20	0.52
29:B1:6:A:C2	31:B3:154:C:C2	2.98	0.52
29:B1:64:G:C6	29:B1:322:U:C5	2.98	0.52
29:B1:190:U:H3	29:B1:221:A:H61	1.58	0.52
29:B1:221:A:C4	29:B1:224:C:C5	2.98	0.52
29:B1:508:U:O4	74:B1:3544:OHX:N6	2.43	0.52
29:B1:680:G:C6	29:B1:701:G:C6	2.98	0.52
29:B1:949:C:C2'	29:B1:950:G:H5'	2.39	0.52
29:B1:957:C:O3'	29:B1:2799:A:H8	1.93	0.52
29:B1:1062:A:C3'	29:B1:1063:G:C5	2.82	0.52
29:B1:1139:G:H2'	29:B1:1140:G:O4'	2.10	0.52
29:B1:1202:A:C2'	29:B1:1203:A:OP2	2.58	0.52
29:B1:1224:C:N3	29:B1:1286:A:C2	2.78	0.52
29:B1:1226:G:C2	29:B1:1227:C:C6	2.98	0.52
29:B1:1260:A:H8	29:B1:1260:A:O5'	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1348:U:O2'	29:B1:1349:G:C8	2.63	0.52
29:B1:1357:G:H2'	29:B1:1357:G:N3	2.24	0.52
29:B1:1414:G:C4	29:B1:1415:U:C6	2.97	0.52
29:B1:1587:A:C4	29:B1:1590:G:C5	2.97	0.52
29:B1:1779:C:OP2	29:B1:1780:G:H8	1.92	0.52
29:B1:1791:C:H2'	29:B1:1792:C:C5	2.45	0.52
29:B1:1906:G:N3	29:B1:1908:A:N6	2.58	0.52
29:B1:2130:G:C6	29:B1:2323:G:C6	2.98	0.52
29:B1:2572:C:N4	29:B1:2573:G:C6	2.77	0.52
29:B1:2590:A:C4	29:B1:2591:A:C8	2.98	0.52
29:B1:2619:G:OP1	29:B1:2619:G:C8	2.60	0.52
29:B1:2773:C:H2'	29:B1:2774:C:H6	1.74	0.52
29:B1:2775:U:O2'	29:B1:2776:C:H6	1.93	0.52
29:B1:2857:C:H2'	29:B1:2858:U:C6	2.45	0.52
29:B1:3097:C:O2'	29:B1:3098:G:O5'	2.27	0.52
29:B1:3182:G:O5'	29:B1:3182:G:H8	1.93	0.52
29:B1:3279:A:C5	29:B1:3280:U:C4	2.98	0.52
30:B2:33:U:O2	30:B2:33:U:C2'	2.57	0.52
31:B3:4:C:H2'	31:B3:5:U:C5'	2.39	0.52
31:B3:8:C:C2'	31:B3:9:A:H8	2.15	0.52
33:BB:102:LEU:C	33:BB:104:LEU:N	2.68	0.52
35:BD:162:THR:O	35:BD:166:VAL:N	2.43	0.52
35:BD:168:ALA:C	35:BD:170:LYS:N	2.66	0.52
35:BD:241:GLY:O	35:BD:242:ALA:C	2.52	0.52
37:BF:93:VAL:O	37:BF:97:ASN:N	2.39	0.52
41:BJ:24:ARG:O	41:BJ:25:ALA:HB2	2.10	0.52
42:BK:46:VAL:O	42:BK:68:HIS:N	2.35	0.52
42:BK:49:LYS:O	42:BK:50:ALA:HB2	2.10	0.52
44:BO:83:LYS:C	44:BO:85:THR:N	2.67	0.52
44:BO:120:TRP:O	44:BO:121:VAL:CB	2.57	0.52
44:BO:136:ASP:O	44:BO:137:PRO:C	2.52	0.52
53:BX:91:ASN:O	53:BX:92:GLY:C	2.53	0.52
55:BZ:10:ILE:C	55:BZ:12:GLN:N	2.68	0.52
56:Ba:12:TYR:O	56:Ba:72:ARG:HA	2.09	0.52
63:Bh:38:UNK:C	63:Bh:39:UNK:O	2.58	0.52
1:C1:15:U:O4'	1:C1:619:A:N1	2.43	0.52
1:C1:269:G:C6	1:C1:287:G:C2	2.98	0.52
1:C1:308:C:H4'	1:C1:309:C:OP1	2.10	0.52
1:C1:313:U:C5	1:C1:1118:G:C5	2.98	0.52
1:C1:341:A:H5'	1:C1:342:C:OP2	2.10	0.52
1:C1:521:A:C3'	1:C1:523:G:C8	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:606:A:C4	1:C1:608:U:C5	2.98	0.52
1:C1:701:U:H2'	1:C1:702:G:O4'	2.10	0.52
1:C1:820:U:C2'	1:C1:821:U:O5'	2.58	0.52
1:C1:1022:C:H5	1:C1:1023:A:C6	2.28	0.52
1:C1:1042:G:C6	1:C1:1043:A:C6	2.98	0.52
1:C1:1046:G:N3	1:C1:1047:G:C8	2.78	0.52
1:C1:1109:G:C4	1:C1:1137:A:N1	2.78	0.52
1:C1:1138:A:C6	1:C1:1139:A:C6	2.98	0.52
1:C1:1186:U:C2'	1:C1:1187:U:H5'	2.39	0.52
1:C1:1196:A:C4'	1:C1:1197:C:C5'	2.83	0.52
1:C1:1203:A:C2	1:C1:1556:A:C1'	2.89	0.52
1:C1:1403:C:O2'	1:C1:1404:C:H5'	2.09	0.52
1:C1:1441:C:H2'	1:C1:1442:U:C6	2.45	0.52
1:C1:1483:A:H5"	1:C1:1521:G:O2'	2.09	0.52
1:C1:1566:U:C2'	1:C1:1567:U:C5'	2.88	0.52
1:C1:1566:U:H2'	1:C1:1567:U:H5'	1.91	0.52
1:C1:1591:C:O2'	1:C1:1592:A:C5'	2.58	0.52
1:C1:1651:A:C2	1:C1:1652:C:C4	2.98	0.52
1:C1:1750:A:C5	1:C1:1751:C:C4	2.98	0.52
3:CB:87:GLN:HA	3:CB:96:THR:HA	1.90	0.52
8:CG:107:LYS:O	8:CG:109:LYS:N	2.42	0.52
8:CG:108:ASP:O	8:CG:111:ALA:N	2.43	0.52
21:CT:219:GLU:CB	21:CT:235:SER:HA	2.40	0.52
29:D1:20:A:O2'	29:D1:21:G:H2'	2.10	0.52
29:D1:382:U:O3'	29:D1:384:A:OP2	2.27	0.52
29:D1:511:G:C2	29:D1:579:G:C2	2.97	0.52
29:D1:740:G:C5	29:D1:741:U:C5	2.98	0.52
29:D1:743:C:H4'	47:DR:142:GLY:CA	2.32	0.52
29:D1:759:U:N3	29:D1:773:G:C6	2.78	0.52
29:D1:781:G:C6	29:D1:782:U:C5	2.98	0.52
29:D1:959:C:N4	29:D1:2801:A:C8	2.78	0.52
29:D1:1139:G:C5	29:D1:1140:G:C8	2.98	0.52
29:D1:1156:C:H2'	29:D1:1156:C:O2	2.10	0.52
29:D1:1213:G:C2'	29:D1:1214:U:O5'	2.58	0.52
29:D1:1296:C:H2'	29:D1:1297:C:O5'	2.10	0.52
29:D1:1325:U:N3	29:D1:1326:A:N7	2.57	0.52
29:D1:1479:U:H5'	29:D1:1480:G:OP2	2.10	0.52
29:D1:1735:G:H2'	29:D1:1735:G:N3	2.25	0.52
29:D1:1794:G:C2	33:DB:185:ALA:HB1	2.45	0.52
29:D1:2124:G:C2	29:D1:2330:C:C2	2.97	0.52
29:D1:2213:A:C6	29:D1:2214:A:N6	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2252:A:C2	29:D1:2253:G:C4	2.99	0.52
29:D1:2300:G:H2'	29:D1:2300:G:N3	2.25	0.52
29:D1:2325:G:C6	29:D1:2326:A:N7	2.78	0.52
29:D1:2947:G:C2	29:D1:2948:C:C5	2.98	0.52
29:D1:3065:G:H2'	29:D1:3066:U:H6	1.74	0.52
29:D1:3292:A:O2'	29:D1:3293:U:H4'	2.09	0.52
29:D1:3315:G:C4'	29:D1:3319:U:O3'	2.58	0.52
29:D1:3317:U:H5	74:D1:3578:OHX:N6	2.08	0.52
30:D2:30:G:C6	30:D2:31:U:N3	2.78	0.52
31:D3:68:G:O2'	31:D3:69:U:H5'	2.09	0.52
31:D3:91:C:H2'	31:D3:92:A:O4'	2.10	0.52
33:DB:83:HIS:CB	62:Dg:63:THR:H	2.23	0.52
38:DG:25:GLN:HA	38:DG:28:ALA:HB2	1.92	0.52
38:DG:237:ASN:O	38:DG:238:LYS:C	2.53	0.52
42:DK:133:ARG:N	42:DK:155:THR:N	2.55	0.52
45:DP:109:PRO:O	45:DP:110:PRO:CB	2.58	0.52
54:DY:27:LYS:O	54:DY:29:PRO:N	2.43	0.52
54:DY:90:TYR:C	54:DY:92:LYS:HA	2.35	0.52
1:A1:32:U:O2	1:A1:595:G:C2	2.63	0.51
1:A1:34:G:H2'	1:A1:35:U:C6	2.45	0.51
1:A1:98:U:H2'	1:A1:98:U:O2	2.10	0.51
1:A1:167:U:C5'	1:A1:167:U:C6	2.88	0.51
1:A1:188:A:N6	1:A1:189:C:O2	2.43	0.51
1:A1:244:A:H2'	1:A1:245:U:H6	1.75	0.51
1:A1:269:G:C2	1:A1:287:G:C2	2.98	0.51
1:A1:471:A:O2'	1:A1:472:U:H5'	2.09	0.51
1:A1:569:C:H1'	1:A1:583:C:C5'	2.37	0.51
1:A1:623:A:N1	1:A1:1105:C:H4'	2.24	0.51
1:A1:755:A:H1'	1:A1:756:A:C8	2.45	0.51
1:A1:832:U:O2	1:A1:832:U:H2'	2.10	0.51
1:A1:923:A:O2'	1:A1:924:A:H5'	2.10	0.51
1:A1:932:U:H4'	1:A1:933:A:O4'	2.10	0.51
1:A1:989:U:C2	1:A1:990:C:C5	2.99	0.51
1:A1:1201:G:C5	1:A1:1202:A:O4'	2.63	0.51
1:A1:1676:U:H2'	1:A1:1677:C:C6	2.44	0.51
3:AB:131:ILE:C	3:AB:133:LYS:H	2.18	0.51
10:AI:115:TYR:O	10:AI:118:GLU:CB	2.59	0.51
14:AM:62:ALA:C	14:AM:64:HIS:H	2.18	0.51
20:AS:25:SER:O	20:AS:26:SER:C	2.53	0.51
20:AS:41:GLN:CB	74:AS:101:OHX:N1	2.73	0.51
29:B1:35:A:C6	29:B1:36:C:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:60:A:C5	29:B1:328:U:N3	2.77	0.51
29:B1:141:C:H2'	29:B1:142:C:O4'	2.10	0.51
29:B1:154:U:P	29:B1:156:G:O6	2.68	0.51
29:B1:191:U:C6	29:B1:191:U:H5"	2.45	0.51
29:B1:264:G:C5	29:B1:265:A:C5	2.98	0.51
29:B1:279:U:OP1	74:B1:3536:OHX:N3	2.43	0.51
29:B1:345:G:N2	29:B1:349:A:OP2	2.36	0.51
29:B1:365:A:N1	29:B1:366:A:N3	2.59	0.51
29:B1:430:U:H2'	29:B1:431:U:H6	1.73	0.51
29:B1:569:A:C5	29:B1:570:A:C8	2.98	0.51
29:B1:665:A:C6	29:B1:666:A:C5	2.98	0.51
29:B1:665:A:H2'	29:B1:666:A:H5'	1.90	0.51
29:B1:735:A:C4	29:B1:735:A:OP2	2.63	0.51
29:B1:955:U:C4	29:B1:956:U:O4	2.63	0.51
29:B1:1262:G:O6	74:B1:3563:OHX:N2	2.44	0.51
29:B1:1281:G:C6	29:B1:1282:G:N7	2.78	0.51
29:B1:1320:C:H5'	29:B1:1321:G:OP2	2.09	0.51
29:B1:1453:A:C8	29:B1:1850:A:H2	2.28	0.51
29:B1:1454:A:C8	29:B1:1454:A:H3'	2.44	0.51
29:B1:1481:A:H1'	29:B1:1858:A:C2	2.45	0.51
29:B1:1658:G:C4	29:B1:1659:U:C5	2.98	0.51
29:B1:1916:U:O2'	29:B1:1917:C:H5'	2.10	0.51
29:B1:1933:A:C2'	29:B1:1934:G:H5'	2.40	0.51
29:B1:2311:G:C2'	29:B1:2312:A:O5'	2.59	0.51
29:B1:2340:U:O2'	29:B1:2341:A:H5'	2.11	0.51
29:B1:2576:G:H2'	29:B1:2577:C:C6	2.45	0.51
29:B1:2608:G:N3	29:B1:2609:A:C8	2.79	0.51
29:B1:2673:A:C2	29:B1:2674:A:N7	2.78	0.51
29:B1:3011:A:C2	34:BC:13:HIS:HA	2.44	0.51
29:B1:3030:G:H2'	29:B1:3031:G:O4'	2.11	0.51
29:B1:3034:C:H3'	29:B1:3034:C:C6	2.45	0.51
29:B1:3222:U:O2	29:B1:3223:A:H1'	2.11	0.51
29:B1:3273:A:O2'	29:B1:3274:A:H4'	2.10	0.51
29:B1:3351:U:O2	29:B1:3351:U:O4'	2.27	0.51
30:B2:72:A:C4	30:B2:73:C:C5	2.98	0.51
31:B3:66:A:C6	31:B3:67:U:C4	2.98	0.51
34:BC:299:ASP:H	34:BC:303:LYS:CB	2.23	0.51
34:BC:337:THR:O	34:BC:338:LEU:C	2.54	0.51
38:BG:180:SER:C	38:BG:183:ASP:H	2.18	0.51
41:BJ:153:ARG:O	41:BJ:154:ARG:C	2.52	0.51
42:BK:101:ASN:C	42:BK:103:GLY:N	2.68	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:25:SER:O	46:BQ:26:PHE:C	2.53	0.51
57:Bb:74:PHE:O	57:Bb:76:VAL:N	2.42	0.51
1:C1:59:C:C4	1:C1:62:A:N6	2.77	0.51
1:C1:168:A:H3'	1:C1:169:A:C8	2.45	0.51
1:C1:312:A:C2	1:C1:314:C:H2'	2.45	0.51
1:C1:351:C:H4'	1:C1:352:A:OP2	2.10	0.51
1:C1:547:U:H1'	1:C1:596:C:H1'	1.92	0.51
1:C1:600:U:P	17:CP:108:GLY:H	2.32	0.51
1:C1:648:G:N1	1:C1:649:U:C4	2.78	0.51
1:C1:660:G:H22	1:C1:683:C:N4	2.08	0.51
1:C1:923:A:O2'	1:C1:924:A:H5'	2.09	0.51
1:C1:964:U:H4'	1:C1:965:U:O5'	2.10	0.51
1:C1:975:C:C4	1:C1:976:G:N7	2.78	0.51
1:C1:993:A:H2'	1:C1:994:G:H5'	1.92	0.51
1:C1:1039:A:N7	1:C1:1091:A:C2	2.78	0.51
1:C1:1115:U:H2'	1:C1:1115:U:O2	2.08	0.51
1:C1:1254:U:O2'	1:C1:1255:G:O5'	2.26	0.51
1:C1:1569:A:H2'	1:C1:1570:A:H8	1.75	0.51
1:C1:1777:G:C6	1:C1:1778:G:C5	2.98	0.51
3:CB:215:PHE:C	3:CB:217:ALA:H	2.17	0.51
5:CD:135:ASP:HA	5:CD:138:THR:CB	2.40	0.51
29:D1:41:G:N7	29:D1:42:C:C4	2.77	0.51
29:D1:63:A:H2'	29:D1:64:G:C8	2.45	0.51
29:D1:126:U:H5	74:D1:3447:OHX:N1	2.07	0.51
29:D1:282:G:H4'	29:D1:283:G:H8	1.75	0.51
29:D1:310:U:N3	29:D1:2780:A:C6	2.71	0.51
29:D1:313:A:C5	29:D1:314:U:C4	2.97	0.51
29:D1:412:G:N2	29:D1:413:U:H1'	2.26	0.51
29:D1:416:A:C2	29:D1:417:A:C8	2.98	0.51
29:D1:420:G:C5	29:D1:2384:A:C2	2.97	0.51
29:D1:593:C:C2'	29:D1:594:U:H4'	2.12	0.51
29:D1:866:A:H5'	29:D1:867:G:OP2	2.10	0.51
29:D1:947:G:C4	29:D1:1373:A:C2	2.98	0.51
29:D1:974:G:N1	29:D1:975:C:C4	2.77	0.51
29:D1:986:U:C2	29:D1:987:U:C5	2.97	0.51
29:D1:1038:C:OP1	29:D1:1038:C:C4'	2.57	0.51
29:D1:1131:G:H4'	29:D1:1132:C:OP2	2.10	0.51
29:D1:1135:A:O2'	29:D1:1136:A:H5'	2.10	0.51
29:D1:1448:U:O4	29:D1:2355:G:C4	2.63	0.51
29:D1:1465:A:N6	29:D1:1466:G:N1	2.58	0.51
29:D1:1493:G:N3	29:D1:1493:G:O5'	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1685:C:H2'	29:D1:1687:U:C5	2.45	0.51
29:D1:1902:G:OP2	29:D1:2919:A:P	2.67	0.51
29:D1:2113:A:H62	29:D1:2114:C:N4	2.08	0.51
29:D1:2290:C:C2'	29:D1:2291:A:O5'	2.58	0.51
29:D1:2419:A:C4	29:D1:2804:A:N7	2.78	0.51
29:D1:2420:C:N4	29:D1:2421:U:O4	2.43	0.51
29:D1:2608:G:N3	29:D1:2609:A:C8	2.78	0.51
29:D1:2626:A:H3'	29:D1:2626:A:N3	2.25	0.51
29:D1:2631:U:C4	29:D1:2648:G:N1	2.78	0.51
29:D1:2856:G:H2'	29:D1:2857:C:C6	2.45	0.51
29:D1:2912:G:O6	29:D1:3130:A:C6	2.63	0.51
29:D1:2990:G:H2'	29:D1:2991:A:H5'	1.92	0.51
29:D1:2994:A:O2'	29:D1:2995:A:H5'	2.10	0.51
29:D1:3006:A:C8	29:D1:3007:U:N1	2.79	0.51
29:D1:3228:C:C3'	29:D1:3229:G:C8	2.92	0.51
29:D1:3262:U:C2	29:D1:3263:G:C8	2.98	0.51
30:D2:63:A:C2	30:D2:65:G:C6	2.97	0.51
30:D2:105:C:O2	30:D2:105:C:C2'	2.57	0.51
31:D3:43:A:H2'	31:D3:44:A:O4'	2.10	0.51
31:D3:140:G:N1	31:D3:141:C:C2	2.78	0.51
34:DC:76:VAL:HA	34:DC:325:LYS:CA	2.41	0.51
34:DC:215:ILE:O	34:DC:216:ASP:CB	2.58	0.51
44:DO:34:ASN:O	44:DO:35:VAL:C	2.53	0.51
44:DO:82:GLY:HA2	44:DO:87:GLN:H	1.74	0.51
44:DO:100:ALA:O	44:DO:101:THR:C	2.53	0.51
46:DQ:122:ALA:CB	46:DQ:143:PRO:C	2.84	0.51
48:DS:24:LEU:O	48:DS:26:PRO:N	2.43	0.51
54:DY:11:HIS:O	54:DY:12:ARG:O	2.27	0.51
54:DY:67:HIS:CB	54:DY:107:ALA:O	2.58	0.51
62:Dg:27:LYS:HA	62:Dg:30:GLU:CB	2.40	0.51
1:A1:213:A:H2'	1:A1:214:G:C5'	2.40	0.51
1:A1:223:U:O2	1:A1:838:G:N2	2.31	0.51
1:A1:248:U:C4'	1:A1:249:U:OP1	2.58	0.51
1:A1:288:A:C2	1:A1:289:U:H5	2.27	0.51
1:A1:640:U:C4	1:A1:641:G:C6	2.98	0.51
1:A1:775:G:N2	1:A1:786:C:C2	2.78	0.51
1:A1:826:U:O2	1:A1:847:A:N1	2.44	0.51
1:A1:840:U:O2'	1:A1:841:U:P	2.68	0.51
1:A1:850:A:C2	1:A1:851:U:C2	2.98	0.51
1:A1:1106:U:C2'	1:A1:1107:G:H5'	2.40	0.51
1:A1:1109:G:N1	1:A1:1110:G:C5	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1124:A:O2'	1:A1:1125:A:H5'	2.10	0.51
1:A1:1150:G:C6	1:A1:1151:A:C4	2.98	0.51
1:A1:1285:U:O2	1:A1:1286:U:C5	2.64	0.51
1:A1:1494:C:H2'	1:A1:1495:C:C6	2.44	0.51
1:A1:1584:G:N3	1:A1:1584:G:C2'	2.73	0.51
1:A1:1694:A:C4'	1:A1:1695:G:OP1	2.58	0.51
1:A1:1728:A:C4	1:A1:1729:C:C6	2.97	0.51
1:A1:1777:G:C4	1:A1:1778:G:C8	2.99	0.51
3:AB:118:ALA:CB	3:AB:124:ALA:H	2.24	0.51
14:AM:15:ILE:O	14:AM:19:ALA:N	2.43	0.51
17:AP:92:CYS:C	17:AP:94:ASN:N	2.68	0.51
24:Ac:79:UNK:C	24:Ac:81:UNK:N	2.72	0.51
29:B1:3:U:H2'	29:B1:4:U:H6	1.75	0.51
29:B1:26:A:C8	29:B1:27:C:H5	2.28	0.51
29:B1:44:U:C5	29:B1:45:A:C8	2.98	0.51
29:B1:185:C:C2	29:B1:186:U:H5	2.28	0.51
29:B1:334:A:C2'	29:B1:335:G:H8	2.05	0.51
29:B1:817:A:H4'	29:B1:818:C:OP2	2.09	0.51
29:B1:898:U:H2'	29:B1:899:U:O4'	2.10	0.51
29:B1:960:U:O3'	29:B1:961:C:H4'	2.10	0.51
29:B1:977:C:O2'	29:B1:978:G:P	2.68	0.51
29:B1:1103:A:HO2'	29:B1:1104:G:P	2.27	0.51
29:B1:1180:A:C5	29:B1:1182:A:N7	2.78	0.51
29:B1:1209:G:H2'	29:B1:1210:U:C6	2.45	0.51
29:B1:1262:G:OP2	29:B1:1262:G:H8	1.92	0.51
29:B1:1279:C:H2'	29:B1:1280:C:O4'	2.09	0.51
29:B1:1317:A:C4	29:B1:1319:G:N7	2.79	0.51
29:B1:1371:G:H5"	29:B1:1371:G:C8	2.45	0.51
29:B1:1604:G:C5	29:B1:1605:A:C5	2.99	0.51
29:B1:1689:U:C2'	29:B1:1690:C:H5'	2.40	0.51
29:B1:1714:A:H1'	29:B1:1731:A:C6	2.45	0.51
29:B1:2133:U:O5'	29:B1:2133:U:H6	1.94	0.51
29:B1:2250:G:N2	29:B1:2267:C:C2	2.60	0.51
29:B1:2419:A:C4	29:B1:2804:A:N7	2.78	0.51
29:B1:2423:U:H2'	29:B1:2424:A:OP2	2.09	0.51
29:B1:2698:G:H2'	29:B1:2699:G:C5'	2.27	0.51
29:B1:2895:G:H2'	29:B1:2896:A:H8	1.74	0.51
29:B1:2948:C:C5'	29:B1:2948:C:H6	2.23	0.51
29:B1:2998:U:C6	29:B1:2998:U:C5'	2.89	0.51
29:B1:3060:C:H2'	29:B1:3061:G:H8	1.75	0.51
29:B1:3198:U:O2	29:B1:3199:G:C5	2.62	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3344:A:H2	29:B1:3360:C:N4	2.07	0.51
29:B1:3349:C:H2'	29:B1:3350:C:N1	2.24	0.51
29:B1:3361:G:N7	29:B1:3362:A:C8	2.77	0.51
30:B2:60:G:C2	30:B2:61:G:C5	2.98	0.51
30:B2:75:G:H21	30:B2:105:C:N4	2.07	0.51
31:B3:103:G:C5	31:B3:105:A:C6	2.98	0.51
31:B3:106:C:H1'	31:B3:107:G:OP2	2.10	0.51
34:BC:118:PHE:CA	34:BC:119:TYR:CB	2.73	0.51
39:BH:116:VAL:O	39:BH:119:GLY:N	2.43	0.51
40:BI:48:VAL:C	40:BI:50:ASN:H	2.18	0.51
41:BJ:98:ARG:CB	41:BJ:120:GLY:HA3	2.40	0.51
43:BN:73:PRO:C	43:BN:75:GLY:N	2.67	0.51
48:BS:120:TYR:O	48:BS:121:HIS:C	2.52	0.51
51:BV:4:GLU:HA	51:BV:13:ILE:O	2.09	0.51
1:C1:10:G:N1	1:C1:11:A:C4	2.79	0.51
1:C1:186:C:N4	1:C1:187:G:C5	2.78	0.51
1:C1:280:U:C3'	1:C1:281:G:H8	2.19	0.51
1:C1:426:G:C6	1:C1:427:C:C4	2.98	0.51
1:C1:451:A:C2	1:C1:454:U:O4	2.64	0.51
1:C1:571:G:H3'	1:C1:572:C:C6	2.45	0.51
1:C1:693:U:H2'	1:C1:694:U:OP1	2.09	0.51
1:C1:736:C:O2'	1:C1:737:A:H5'	2.10	0.51
1:C1:743:U:H3'	1:C1:743:U:P	2.50	0.51
1:C1:757:A:C5	1:C1:758:U:C6	2.96	0.51
1:C1:933:A:H62	1:C1:935:U:H1'	1.76	0.51
1:C1:994:G:H2'	1:C1:995:A:C8	2.46	0.51
1:C1:1085:G:N2	1:C1:1089:U:C2	2.78	0.51
1:C1:1196:A:N7	1:C1:1602:C:H4'	2.25	0.51
1:C1:1297:G:N2	1:C1:1301:U:N1	2.58	0.51
1:C1:1348:A:C3'	1:C1:1349:G:H5"	2.40	0.51
1:C1:1378:U:H3'	1:C1:1379:C:C4'	2.41	0.51
1:C1:1491:U:H5"	1:C1:1492:A:H5"	1.91	0.51
1:C1:1495:C:O5'	1:C1:1495:C:H6	1.92	0.51
1:C1:1591:C:C2'	1:C1:1592:A:H8	2.20	0.51
1:C1:1651:A:N3	1:C1:1651:A:H2'	2.24	0.51
1:C1:1683:C:O3'	1:C1:1684:U:C2	2.63	0.51
1:C1:1733:C:C4	1:C1:1734:U:C5	2.98	0.51
4:CC:41:VAL:HA	4:CC:45:LYS:O	2.10	0.51
4:CC:46:THR:CB	4:CC:84:ILE:HA	2.39	0.51
15:CN:83:GLU:H	20:CS:53:ASN:CB	2.22	0.51
17:CP:80:GLY:O	17:CP:81:LYS:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CP:126:LYS:O	17:CP:127:VAL:CB	2.56	0.51
29:D1:141:C:H2'	29:D1:142:C:O4'	2.10	0.51
29:D1:317:A:O2'	29:D1:318:A:O5'	2.24	0.51
29:D1:332:C:H6	29:D1:332:C:C5'	2.24	0.51
29:D1:413:U:O2'	29:D1:414:U:H5'	2.10	0.51
29:D1:421:G:O6	29:D1:2383:C:O2	2.29	0.51
29:D1:516:A:H2	29:D1:574:U:O2	1.93	0.51
29:D1:710:A:O2'	29:D1:711:A:C5'	2.58	0.51
29:D1:807:A:C8	29:D1:807:A:C3'	2.94	0.51
29:D1:822:G:N2	29:D1:823:C:H1'	2.25	0.51
29:D1:917:A:C2	29:D1:918:C:C2	2.99	0.51
29:D1:1078:U:H5'	29:D1:1079:A:OP2	2.10	0.51
29:D1:1099:A:H2'	29:D1:1100:U:H5'	1.93	0.51
29:D1:1236:G:H3'	29:D1:1237:G:H5"	1.92	0.51
29:D1:1269:U:N3	29:D1:1272:C:N4	2.58	0.51
29:D1:1379:G:H1	29:D1:1427:U:H3	1.58	0.51
29:D1:1453:A:C8	29:D1:1850:A:H2	2.29	0.51
29:D1:1466:G:C6	29:D1:1511:U:C6	2.97	0.51
29:D1:1578:C:N3	29:D1:1579:C:O2	2.43	0.51
29:D1:1888:U:H2'	29:D1:1889:G:O4'	2.11	0.51
29:D1:1945:A:H2'	29:D1:1946:A:H8	1.75	0.51
29:D1:2112:U:H1'	29:D1:2113:A:P	2.50	0.51
29:D1:2157:G:N2	29:D1:2178:A:OP2	2.42	0.51
29:D1:2167:A:C3'	29:D1:2168:A:H8	2.23	0.51
29:D1:2173:U:H2'	29:D1:2174:G:OP1	2.09	0.51
29:D1:2255:A:P	74:D1:3415:OHX:N5	2.83	0.51
29:D1:2520:A:C5	29:D1:2521:U:N3	2.76	0.51
29:D1:2684:C:O2'	29:D1:2685:C:O4'	2.19	0.51
29:D1:2712:U:C2'	29:D1:2713:U:O5'	2.58	0.51
29:D1:2732:G:C4	29:D1:2733:A:C8	2.99	0.51
29:D1:2877:G:O6	74:D1:3530:OHX:N1	2.42	0.51
29:D1:2925:C:C5	29:D1:2926:A:C5	2.98	0.51
29:D1:2933:A:OP1	29:D1:3015:G:H4'	2.10	0.51
29:D1:3024:A:H3'	29:D1:3025:C:H6	1.73	0.51
29:D1:3109:G:C2	29:D1:3110:C:C6	2.97	0.51
31:D3:16:G:C6	74:D3:212:OHX:N6	2.78	0.51
31:D3:90:U:H2'	31:D3:91:C:C6	2.45	0.51
31:D3:113:U:H1'	31:D3:114:G:P	2.45	0.51
31:D3:115:C:C2'	31:D3:116:G:O5'	2.59	0.51
31:D3:124:G:OP1	31:D3:124:G:H4'	2.10	0.51
31:D3:131:A:O2'	31:D3:132:G:P	2.68	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DB:82:VAL:O	33:DB:84:THR:N	2.43	0.51
38:DG:120:THR:O	38:DG:123:THR:CB	2.57	0.51
39:DH:225:LYS:C	39:DH:227:ASP:N	2.68	0.51
42:DK:134:PRO:CB	42:DK:152:HIS:CB	2.89	0.51
43:DN:26:GLY:O	43:DN:27:GLN:C	2.53	0.51
46:DQ:99:ALA:O	46:DQ:102:ALA:HB3	2.10	0.51
48:DS:124:TYR:HA	48:DS:127:SER:CB	2.41	0.51
56:Da:9:THR:HA	56:Da:76:SER:CA	2.28	0.51
1:A1:18:C:H2'	1:A1:19:A:H8	1.74	0.51
1:A1:426:G:C6	1:A1:427:C:C4	2.98	0.51
1:A1:439:U:C5	1:A1:465:G:N2	2.79	0.51
1:A1:546:U:H6	1:A1:546:U:O5'	1.93	0.51
1:A1:649:U:C4	1:A1:685:A:N1	2.77	0.51
1:A1:739:G:N3	1:A1:740:A:N7	2.59	0.51
1:A1:827:C:H4'	1:A1:828:U:OP1	2.08	0.51
1:A1:886:U:H3'	1:A1:887:A:H8	1.75	0.51
1:A1:990:C:H2'	1:A1:991:G:O4'	2.10	0.51
1:A1:1075:C:N4	1:A1:1076:A:H61	2.07	0.51
1:A1:1156:C:O2'	1:A1:1157:A:H5'	2.09	0.51
1:A1:1210:C:H2'	1:A1:1210:C:O2	2.08	0.51
1:A1:1230:A:OP1	1:A1:1256:A:H5'	2.10	0.51
1:A1:1240:U:C3'	1:A1:1241:G:C5'	2.89	0.51
1:A1:1327:C:O2'	4:AC:158:ILE:CB	2.58	0.51
1:A1:1374:C:C3'	1:A1:1375:A:C8	2.93	0.51
1:A1:1697:G:O6	1:A1:1709:C:N3	2.42	0.51
4:AC:41:VAL:HA	4:AC:45:LYS:O	2.11	0.51
6:AE:157:ASP:O	6:AE:159:ALA:N	2.40	0.51
8:AG:36:GLN:C	8:AG:39:LYS:H	2.18	0.51
9:AH:21:ALA:CB	9:AH:26:THR:HA	2.39	0.51
17:AP:89:ASN:O	17:AP:90:ASP:CB	2.58	0.51
17:AP:95:PHE:O	17:AP:96:VAL:C	2.52	0.51
29:B1:245:U:O2	29:B1:245:U:O4'	2.26	0.51
29:B1:287:G:C2'	29:B1:288:C:O5'	2.59	0.51
29:B1:370:U:C5	29:B1:371:G:C4	2.99	0.51
29:B1:381:U:H3	29:B1:387:A:H61	1.56	0.51
29:B1:432:G:H1	29:B1:627:U:H3	1.57	0.51
29:B1:595:G:N2	29:B1:609:G:H4'	2.26	0.51
29:B1:637:C:N3	29:B1:638:C:C4	2.78	0.51
29:B1:644:G:N1	29:B1:2868:U:OP1	2.41	0.51
29:B1:762:U:C5	74:B1:3479:OHX:N5	2.79	0.51
29:B1:908:G:N7	29:B1:925:A:C4	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:913:A:H2	29:B1:2134:G:N3	2.08	0.51
29:B1:953:G:O4'	29:B1:1115:G:H4'	2.10	0.51
29:B1:1065:A:O3'	29:B1:1066:G:C8	2.64	0.51
29:B1:1148:G:N7	74:B1:3503:OHX:N4	2.58	0.51
29:B1:1220:U:P	29:B1:1223:A:H4'	2.50	0.51
29:B1:1255:C:C4	74:B1:3567:OHX:N5	2.77	0.51
29:B1:1284:C:H5	29:B1:1285:G:N2	2.06	0.51
29:B1:1583:A:H2'	29:B1:1584:U:O5'	2.10	0.51
29:B1:1729:A:P	55:BZ:27:TYR:CB	2.99	0.51
29:B1:1780:G:O2'	29:B1:1781:C:O5'	2.29	0.51
29:B1:1858:A:C2'	29:B1:1859:A:OP1	2.57	0.51
29:B1:2253:G:C6	29:B1:2254:U:N3	2.78	0.51
29:B1:2406:C:C1'	29:B1:2819:A:C6	2.93	0.51
29:B1:2561:A:N6	29:B1:2579:G:C4	2.78	0.51
29:B1:2573:G:N7	74:B1:3558:OHX:N3	2.58	0.51
29:B1:2573:G:C6	29:B1:2574:G:C5	2.98	0.51
29:B1:2730:G:C4	29:B1:2731:U:C6	2.99	0.51
29:B1:2922:G:O4'	29:B1:2951:G:O2'	2.26	0.51
29:B1:3055:U:O3'	29:B1:3056:U:C6	2.63	0.51
29:B1:3143:C:OP2	29:B1:3144:G:H5"	2.11	0.51
29:B1:3219:G:H4'	29:B1:3220:G:O5'	2.11	0.51
29:B1:3268:A:C1'	29:B1:3269:U:P	2.99	0.51
29:B1:3321:C:O2'	29:B1:3322:A:C8	2.38	0.51
29:B1:3390:G:C6	29:B1:3391:A:C6	2.99	0.51
30:B2:68:C:O2'	30:B2:69:C:O5'	2.27	0.51
30:B2:75:G:OP1	74:B2:201:OHX:N6	2.43	0.51
31:B3:138:A:N3	31:B3:138:A:H2'	2.25	0.51
35:BD:234:ASN:C	35:BD:236:LEU:H	2.17	0.51
37:BF:21:THR:N	37:BF:112:THR:CA	2.59	0.51
46:BQ:9:THR:N	46:BQ:10:ASN:CA	2.73	0.51
46:BQ:62:ARG:C	46:BQ:64:ASN:H	2.18	0.51
46:BQ:117:ILE:O	46:BQ:147:GLU:O	2.28	0.51
46:BQ:125:GLN:CB	46:BQ:141:SER:H	2.24	0.51
61:Bf:38:GLN:O	61:Bf:40:LYS:N	2.42	0.51
65:Bk:16:UNK:O	65:Bk:18:UNK:N	2.44	0.51
71:Br:11:UNK:O	71:Br:12:UNK:C	2.57	0.51
1:C1:612:U:H4'	1:C1:1099:U:C6	2.45	0.51
1:C1:789:A:H3'	1:C1:790:U:C6	2.44	0.51
1:C1:1190:C:N3	1:C1:1194:A:C2	2.79	0.51
1:C1:1368:G:C6	1:C1:1369:U:C4	2.99	0.51
1:C1:1409:G:C8	1:C1:1411:A:OP2	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1452:U:C4	1:C1:1453:G:N7	2.79	0.51
1:C1:1608:U:C2'	1:C1:1609:U:H5"	2.40	0.51
1:C1:1637:C:OP2	1:C1:1637:C:C4'	2.58	0.51
1:C1:1683:C:OP2	1:C1:1684:U:P	2.69	0.51
3:CB:148:LEU:O	3:CB:195:ASP:CB	2.57	0.51
4:CC:56:GLN:O	4:CC:59:LEU:N	2.34	0.51
6:CE:121:SER:O	6:CE:122:VAL:C	2.53	0.51
29:D1:36:C:H4'	29:D1:808:A:C2	2.45	0.51
29:D1:79:U:N3	29:D1:80:G:N7	2.59	0.51
29:D1:126:U:C5	74:D1:3447:OHX:N1	2.79	0.51
29:D1:155:G:H4'	29:D1:156:G:OP1	2.10	0.51
29:D1:282:G:H4'	29:D1:283:G:OP2	2.05	0.51
29:D1:519:A:N6	37:DF:30:LEU:HA	2.25	0.51
29:D1:593:C:C2	29:D1:594:U:H4'	2.45	0.51
29:D1:593:C:C4	29:D1:594:U:O2'	2.62	0.51
29:D1:774:G:H2'	29:D1:775:A:C5'	2.39	0.51
29:D1:807:A:H3'	29:D1:808:A:C5'	2.37	0.51
29:D1:941:G:H2'	29:D1:942:U:O4'	2.11	0.51
29:D1:943:U:O2'	29:D1:944:C:H5"	2.11	0.51
29:D1:1035:G:C4	29:D1:1036:A:H8	2.28	0.51
29:D1:1230:G:C5	29:D1:1231:A:N7	2.78	0.51
29:D1:1335:C:C4	29:D1:1336:U:C5	2.98	0.51
29:D1:1607:U:OP2	29:D1:1607:U:C6	2.63	0.51
29:D1:1625:A:C8	29:D1:1626:U:O4'	2.63	0.51
29:D1:1654:A:C2	29:D1:1655:G:H1'	2.45	0.51
29:D1:1883:A:C2	29:D1:1884:A:C4	2.98	0.51
29:D1:2128:C:C4	29:D1:2129:U:C4	2.98	0.51
29:D1:2186:U:C2'	29:D1:2187:G:O5'	2.58	0.51
29:D1:2276:G:C6	29:D1:2277:C:C4	2.99	0.51
29:D1:2279:A:C8	29:D1:2288:G:O6	2.62	0.51
29:D1:2714:G:O6	29:D1:2741:C:N3	2.44	0.51
29:D1:2753:G:C2	29:D1:2754:G:C8	2.98	0.51
29:D1:2945:G:N3	29:D1:2945:G:C5'	2.73	0.51
29:D1:3088:G:H5"	29:D1:3089:C:OP2	2.10	0.51
29:D1:3112:G:N2	29:D1:3121:U:C2	2.79	0.51
29:D1:3283:U:H2'	29:D1:3284:G:C8	2.46	0.51
29:D1:3303:G:C5	29:D1:3305:A:C6	2.98	0.51
29:D1:3341:U:C3'	29:D1:3343:G:H22	2.23	0.51
30:D2:27:A:H3'	30:D2:28:C:H6	1.74	0.51
30:D2:70:U:O2'	30:D2:71:G:C5'	2.58	0.51
30:D2:79:A:C2	30:D2:80:G:C1'	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:113:C:C2	30:D2:114:U:C5	2.98	0.51
31:D3:58:G:OP1	31:D3:98:U:N3	2.43	0.51
31:D3:95:G:C4'	59:Dd:72:ARG:HA	2.40	0.51
33:DB:112:ILE:HA	33:DB:165:VAL:H	1.76	0.51
33:DB:144:ASN:HA	33:DB:159:SER:H	1.76	0.51
33:DB:198:LYS:O	33:DB:199:THR:C	2.53	0.51
36:DE:20:PHE:O	36:DE:21:ARG:CB	2.56	0.51
36:DE:227:LEU:HA	36:DE:228:ALA:C	2.33	0.51
41:DJ:61:SER:HA	41:DJ:126:ALA:HB1	1.93	0.51
73:DM:60:ARG:C	73:DM:62:ALA:N	2.67	0.51
44:DO:83:LYS:C	44:DO:85:THR:N	2.68	0.51
45:DP:154:ALA:O	45:DP:157:GLU:CB	2.58	0.51
49:DT:14:MET:O	49:DT:16:GLN:N	2.34	0.51
49:DT:98:HIS:O	49:DT:99:SER:CB	2.58	0.51
26:Dj:17:UNK:C	26:Dj:19:UNK:H	2.23	0.51
1:A1:44:U:OP1	1:A1:47:A:OP2	2.29	0.51
1:A1:52:U:O2'	1:A1:53:G:H5'	2.09	0.51
1:A1:148:A:C8	1:A1:149:C:C5	2.99	0.51
1:A1:167:U:H6	1:A1:167:U:H5'	1.73	0.51
1:A1:333:A:C2	1:A1:334:G:C2	2.99	0.51
1:A1:380:U:O2	1:A1:380:U:C2'	2.57	0.51
1:A1:555:A:H2'	1:A1:555:A:P	2.50	0.51
1:A1:647:G:C2	1:A1:687:G:N1	2.78	0.51
1:A1:660:G:H22	1:A1:683:C:N4	2.09	0.51
1:A1:693:U:H2'	1:A1:694:U:OP1	2.09	0.51
1:A1:837:G:C5	74:A1:1917:OHX:N6	2.78	0.51
1:A1:876:G:C8	1:A1:944:A:C2	2.98	0.51
1:A1:930:A:H3'	1:A1:931:C:H6	1.76	0.51
1:A1:1158:C:N4	1:A1:1163:A:H61	2.05	0.51
1:A1:1184:A:H1'	1:A1:1210:C:H1'	1.91	0.51
1:A1:1204:A:N3	1:A1:1204:A:C2'	2.73	0.51
1:A1:1431:C:C3'	1:A1:1432:U:C5'	2.89	0.51
1:A1:1591:C:O2'	1:A1:1592:A:P	2.68	0.51
1:A1:1650:U:C2'	1:A1:1651:A:H8	2.22	0.51
3:AB:126:ARG:C	3:AB:128:GLY:N	2.68	0.51
5:AD:65:ARG:O	5:AD:88:PRO:N	2.43	0.51
5:AD:93:LEU:C	5:AD:95:ASN:N	2.68	0.51
5:AD:149:VAL:C	5:AD:151:GLY:H	2.18	0.51
16:AO:117:ARG:O	16:AO:118:ARG:O	2.28	0.51
21:AT:48:THR:O	21:AT:49:GLY:C	2.54	0.51
29:B1:60:A:N7	29:B1:327:A:C2	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:158:G:O6	29:B1:159:A:N3	2.43	0.51
29:B1:333:G:O2'	29:B1:334:A:H5'	2.10	0.51
29:B1:351:A:H8	31:B3:53:A:O2'	1.93	0.51
29:B1:373:A:N1	29:B1:375:A:C6	2.78	0.51
29:B1:536:U:C6	29:B1:536:U:O5'	2.64	0.51
29:B1:592:A:C2'	29:B1:593:C:C2'	2.81	0.51
29:B1:725:G:H1	29:B1:744:A:N6	2.08	0.51
29:B1:895:A:C2	29:B1:897:U:C5	2.98	0.51
29:B1:968:G:H2'	29:B1:969:C:C6	2.46	0.51
29:B1:974:G:N1	29:B1:975:C:C4	2.79	0.51
29:B1:1063:G:H5'	29:B1:1098:A:OP2	2.10	0.51
29:B1:1168:U:H2'	29:B1:1169:A:C5'	2.41	0.51
29:B1:1204:A:H1'	29:B1:2855:U:H1'	1.92	0.51
29:B1:1638:A:C2	29:B1:1736:G:N3	2.78	0.51
29:B1:1908:A:H2'	29:B1:1909:A:O4'	2.11	0.51
29:B1:2155:G:H2'	29:B1:2156:C:H6	1.73	0.51
29:B1:2200:U:C2	29:B1:2201:G:C8	2.98	0.51
29:B1:2207:A:H8	29:B1:2237:C:C2	2.28	0.51
29:B1:2232:A:OP2	74:B1:3599:OHX:N5	2.44	0.51
29:B1:2253:G:C5	29:B1:2254:U:C2	2.97	0.51
29:B1:2352:A:O3'	46:BQ:85:ALA:HB3	2.09	0.51
29:B1:2592:G:C5	74:B1:3449:OHX:N3	2.79	0.51
29:B1:2648:G:C6	29:B1:2649:A:N7	2.79	0.51
29:B1:3063:C:C2	29:B1:3064:U:H5	2.28	0.51
29:B1:3100:U:O2'	29:B1:3101:G:H8	1.93	0.51
29:B1:3121:U:H4'	29:B1:3122:A:C5'	2.40	0.51
29:B1:3144:G:C5	74:B1:3428:OHX:N1	2.78	0.51
29:B1:3262:U:H3'	29:B1:3262:U:P	2.49	0.51
29:B1:3321:C:N3	29:B1:3322:A:N7	2.58	0.51
30:B2:62:U:H3'	30:B2:63:A:H8	1.75	0.51
31:B3:40:A:H8	31:B3:40:A:C5'	2.15	0.51
31:B3:79:A:H3'	31:B3:80:A:H8	1.74	0.51
33:BB:90:ALA:O	33:BB:91:GLY:C	2.52	0.51
33:BB:219:ILE:O	33:BB:220:GLY:O	2.28	0.51
36:BE:100:ALA:O	36:BE:104:LEU:N	2.43	0.51
36:BE:118:THR:C	36:BE:120:LYS:N	2.68	0.51
37:BF:162:SER:O	37:BF:163:PHE:C	2.53	0.51
38:BG:237:ASN:O	38:BG:238:LYS:C	2.53	0.51
39:BH:153:ILE:O	39:BH:180:VAL:N	2.43	0.51
39:BH:208:GLU:O	39:BH:210:ALA:N	2.43	0.51
40:BI:141:LYS:O	40:BI:142:ASP:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:143:ARG:HA	44:BO:146:ALA:HB2	1.91	0.51
47:BR:130:ARG:C	47:BR:132:PRO:N	2.69	0.51
49:BT:35:LYS:O	49:BT:37:GLY:N	2.44	0.51
54:BY:14:HIS:O	54:BY:15:VAL:CB	2.57	0.51
54:BY:33:GLY:O	54:BY:34:MET:C	2.53	0.51
57:Bb:107:VAL:O	57:Bb:108:ILE:C	2.53	0.51
1:C1:130:C:O2	1:C1:136:C:N3	2.43	0.51
1:C1:269:G:C5	1:C1:270:C:C5	2.99	0.51
1:C1:335:U:C5	1:C1:336:G:C5	2.99	0.51
1:C1:454:U:O4	1:C1:456:A:C4	2.62	0.51
1:C1:951:A:H2'	1:C1:952:A:O4'	2.10	0.51
1:C1:1142:A:C5'	1:C1:1142:A:C8	2.93	0.51
1:C1:1293:U:H2'	1:C1:1294:G:H5'	1.92	0.51
1:C1:1293:U:C2'	1:C1:1294:G:H5'	2.39	0.51
1:C1:1311:U:O2	1:C1:1313:A:C8	2.63	0.51
1:C1:1388:A:C6	1:C1:1411:A:C6	2.99	0.51
1:C1:1448:G:C2'	1:C1:1449:U:H5'	2.40	0.51
1:C1:1466:G:C5	1:C1:1467:C:N4	2.78	0.51
1:C1:1534:G:C4'	1:C1:1536:G:O6	2.59	0.51
1:C1:1542:G:N2	1:C1:1568:C:C6	2.79	0.51
1:C1:1586:A:H2'	1:C1:1587:A:O4'	2.10	0.51
1:C1:1591:C:O2'	1:C1:1592:A:O5'	2.26	0.51
1:C1:1623:C:N3	1:C1:1624:C:C5	2.78	0.51
1:C1:1675:C:O2'	1:C1:1678:A:C8	2.60	0.51
1:C1:1723:U:H2'	1:C1:1724:U:O4'	2.10	0.51
2:CA:57:LEU:O	2:CA:60:ALA:HB3	2.11	0.51
2:CA:146:LEU:HA	2:CA:160:ILE:CA	2.40	0.51
13:CL:105:VAL:O	13:CL:106:GLU:C	2.53	0.51
29:D1:88:A:H8	29:D1:88:A:O5'	1.93	0.51
29:D1:200:C:N4	29:D1:217:U:C6	2.78	0.51
29:D1:286:U:C2'	29:D1:287:G:C8	2.73	0.51
29:D1:585:A:C5	29:D1:586:C:N4	2.78	0.51
29:D1:595:G:H22	29:D1:610:G:P	2.33	0.51
29:D1:609:G:C8	29:D1:610:G:N1	2.78	0.51
29:D1:659:G:C6	29:D1:1432:C:N3	2.78	0.51
29:D1:680:G:O6	29:D1:701:G:O6	2.28	0.51
29:D1:876:A:H2'	29:D1:877:C:H5'	1.92	0.51
29:D1:917:A:H2'	29:D1:917:A:N3	2.25	0.51
29:D1:946:U:H2'	29:D1:946:U:O2	2.09	0.51
29:D1:980:A:O4'	29:D1:980:A:OP2	2.27	0.51
29:D1:993:G:C5	29:D1:2637:A:C2	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1063:G:O2'	29:D1:1064:A:C5'	2.58	0.51
29:D1:1139:G:N2	29:D1:1140:G:H1'	2.25	0.51
29:D1:1180:A:N1	29:D1:1182:A:C5	2.78	0.51
29:D1:1193:A:H8	29:D1:1194:G:N2	2.08	0.51
29:D1:1303:A:N7	29:D1:1304:A:C6	2.78	0.51
29:D1:1319:G:O2'	29:D1:1320:C:H6	1.93	0.51
29:D1:1428:A:OP2	54:DY:1:MET:CB	2.57	0.51
29:D1:1700:G:C6	29:D1:1701:C:C4	2.98	0.51
29:D1:1818:U:H2'	29:D1:1819:U:N3	2.25	0.51
29:D1:1891:A:N6	29:D1:2345:A:N6	2.58	0.51
29:D1:2253:G:C5	29:D1:2254:U:N3	2.78	0.51
29:D1:2254:U:O4	74:D1:3583:OHX:N6	2.43	0.51
29:D1:2297:U:N3	29:D1:2299:A:C6	2.78	0.51
29:D1:2300:G:N2	29:D1:2301:U:H1'	2.25	0.51
29:D1:2393:G:O2'	29:D1:2394:G:OP2	2.22	0.51
29:D1:2573:G:C6	29:D1:2574:G:C5	2.97	0.51
29:D1:2583:C:C2'	29:D1:2584:G:C8	2.88	0.51
29:D1:2653:C:OP2	61:Df:89:LYS:C	2.53	0.51
29:D1:2683:U:O2	29:D1:2683:U:H2'	2.10	0.51
29:D1:2827:U:H1'	29:D1:2828:G:N7	2.26	0.51
29:D1:2837:A:H2'	29:D1:2845:A:C2	2.46	0.51
29:D1:2841:G:C4	29:D1:2844:C:N4	2.79	0.51
29:D1:3086:A:H2'	29:D1:3087:A:H8	1.75	0.51
29:D1:3141:A:C2	29:D1:3143:C:O3'	2.64	0.51
29:D1:3149:G:C2'	29:D1:3150:A:H5'	2.40	0.51
29:D1:3201:C:C2'	29:D1:3202:G:C8	2.85	0.51
29:D1:3278:C:O2	29:D1:3279:A:N7	2.43	0.51
29:D1:3298:C:H2'	29:D1:3299:A:H8	1.76	0.51
35:DD:42:VAL:O	35:DD:45:ASN:N	2.31	0.51
37:DF:145:LEU:O	37:DF:149:ILE:CB	2.58	0.51
43:DN:18:GLY:O	43:DN:19:ARG:CB	2.58	0.51
47:DR:49:LEU:C	47:DR:51:ALA:N	2.68	0.51
56:Da:84:ASP:O	56:Da:85:ALA:HB3	2.09	0.51
58:Dc:4:VAL:CA	58:Dc:5:LYS:CB	2.88	0.51
1:A1:130:C:H3'	1:A1:131:C:H4'	1.93	0.51
1:A1:130:C:O2	1:A1:136:C:N3	2.44	0.51
1:A1:130:C:C6	1:A1:131:C:H4'	2.46	0.51
1:A1:353:A:C6	1:A1:354:C:C2	2.99	0.51
1:A1:743:U:O2'	1:A1:744:U:O5'	2.29	0.51
1:A1:856:A:H2'	1:A1:856:A:N3	2.26	0.51
1:A1:921:U:C2	1:A1:922:G:N7	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:986:G:HO2'	1:A1:987:G:P	2.34	0.51
1:A1:991:G:N2	1:A1:1014:G:O6	2.43	0.51
1:A1:1092:A:C2	1:A1:1094:G:N7	2.79	0.51
1:A1:1138:A:H2'	1:A1:1139:A:H8	1.74	0.51
1:A1:1140:G:C2	1:A1:1141:G:N7	2.78	0.51
1:A1:1141:G:C2'	1:A1:1142:A:H5"	2.40	0.51
1:A1:1200:G:H5'	1:A1:1201:G:H8	1.73	0.51
1:A1:1203:A:C4'	1:A1:1204:A:OP2	2.57	0.51
1:A1:1274:C:OP2	1:A1:1427:A:H3'	2.11	0.51
1:A1:1389:C:N4	1:A1:1391:A:H1'	2.25	0.51
1:A1:1458:G:C2	1:A1:1459:C:N4	2.79	0.51
1:A1:1491:U:C2'	1:A1:1492:A:H2'	2.40	0.51
1:A1:1498:G:C2	1:A1:1510:U:O2	2.63	0.51
1:A1:1579:U:N3	1:A1:1580:C:C4	2.79	0.51
1:A1:1631:A:C4'	1:A1:1764:C:H1'	2.41	0.51
1:A1:1673:G:H2'	1:A1:1674:C:H5'	1.90	0.51
1:A1:1678:A:H2	1:A1:1725:U:C2	2.27	0.51
1:A1:1721:A:H3'	1:A1:1722:A:C4'	2.41	0.51
1:A1:1721:A:O5'	1:A1:1722:A:O5'	2.28	0.51
2:AA:20:ALA:O	2:AA:22:THR:N	2.42	0.51
3:AB:201:ASN:O	3:AB:202:GLY:C	2.52	0.51
13:AL:76:PRO:C	13:AL:78:HIS:N	2.68	0.51
16:AO:85:ASP:O	16:AO:86:ILE:C	2.53	0.51
23:Ab:133:UNK:O	23:Ab:134:UNK:CB	2.59	0.51
26:Ae:8:UNK:O	26:Ae:9:UNK:C	2.57	0.51
29:B1:165:A:N1	29:B1:257:U:O4	2.44	0.51
29:B1:208:C:C4	29:B1:209:A:N7	2.78	0.51
29:B1:363:G:H3'	29:B1:364:G:H5"	1.90	0.51
29:B1:557:A:C8	29:B1:557:A:O5'	2.64	0.51
29:B1:733:G:N2	29:B1:736:A:N1	2.58	0.51
29:B1:751:A:N6	29:B1:783:A:C6	2.79	0.51
29:B1:907:G:OP1	29:B1:909:G:H1'	2.11	0.51
29:B1:932:U:C4'	29:B1:933:A:H5"	2.40	0.51
29:B1:1013:G:N2	29:B1:1038:C:C2	2.78	0.51
29:B1:1029:G:H8	29:B1:1029:G:O5'	1.92	0.51
29:B1:1108:U:C2	29:B1:1109:U:C5	2.99	0.51
29:B1:1131:G:H4'	29:B1:1132:C:OP2	2.09	0.51
29:B1:1196:C:N3	30:B2:86:U:C4	2.78	0.51
29:B1:1237:G:H5"	29:B1:1238:C:C6	2.45	0.51
29:B1:1399:A:N3	29:B1:1399:A:C2'	2.73	0.51
29:B1:1461:A:H2'	29:B1:1462:A:H8	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1504:A:C8	29:B1:1505:C:H5	2.29	0.51
29:B1:1811:G:N1	29:B1:1812:G:C8	2.78	0.51
29:B1:1843:C:N3	29:B1:1844:C:C5	2.79	0.51
29:B1:1868:G:C5	29:B1:1869:C:C6	2.98	0.51
29:B1:1878:G:H3'	29:B1:1879:A:C5'	2.39	0.51
29:B1:1908:A:N6	29:B1:1909:A:N1	2.58	0.51
29:B1:2143:A:C8	29:B1:2143:A:C3'	2.93	0.51
29:B1:2204:C:C2'	29:B1:2205:U:H5"	2.41	0.51
29:B1:2221:G:H5"	29:B1:2221:G:H8	1.76	0.51
29:B1:2253:G:H3'	29:B1:2254:U:H5	1.69	0.51
29:B1:2279:A:C2	29:B1:2283:G:C2	2.99	0.51
29:B1:2279:A:N7	29:B1:2288:G:C6	2.79	0.51
29:B1:2290:C:C2'	29:B1:2291:A:O5'	2.58	0.51
29:B1:2433:U:H5"	29:B1:2434:U:OP2	2.10	0.51
29:B1:2511:A:H2'	29:B1:2512:C:C5'	2.41	0.51
29:B1:2896:A:C8	29:B1:2896:A:C5'	2.93	0.51
29:B1:2963:C:O2'	29:B1:2964:G:H5'	2.11	0.51
29:B1:2993:G:N3	29:B1:2993:G:C2'	2.72	0.51
29:B1:3035:A:C6	29:B1:3036:G:N7	2.79	0.51
29:B1:3042:U:C5	29:B1:3043:C:C5	2.98	0.51
29:B1:3117:C:C4	29:B1:3118:C:C6	2.99	0.51
29:B1:3199:G:C3'	29:B1:3200:G:C8	2.89	0.51
29:B1:3280:U:O2	29:B1:3281:U:C6	2.63	0.51
30:B2:98:C:O2	30:B2:98:C:C2'	2.54	0.51
31:B3:56:G:C2	31:B3:57:C:N1	2.78	0.51
31:B3:61:A:C2'	31:B3:62:C:OP2	2.58	0.51
31:B3:76:C:O2'	53:BX:76:LEU:CB	2.59	0.51
36:BE:199:ILE:O	36:BE:201:GLY:N	2.44	0.51
36:BE:233:ALA:O	36:BE:234:ASP:O	2.27	0.51
37:BF:115:GLU:O	37:BF:117:LYS:N	2.42	0.51
37:BF:156:LYS:O	37:BF:157:GLN:C	2.53	0.51
38:BG:105:LEU:C	38:BG:107:ARG:H	2.19	0.51
39:BH:122:LYS:C	39:BH:124:ASP:H	2.18	0.51
40:BI:28:VAL:HA	40:BI:32:GLY:O	2.10	0.51
44:BO:100:ALA:O	44:BO:101:THR:C	2.52	0.51
44:BO:148:TYR:C	44:BO:150:TRP:N	2.69	0.51
45:BP:25:LYS:C	45:BP:27:LEU:N	2.67	0.51
62:Bg:70:THR:O	62:Bg:72:SER:N	2.38	0.51
1:C1:157:A:HO2'	1:C1:158:U:H5'	1.75	0.51
1:C1:267:U:O4	1:C1:268:C:C4	2.63	0.51
1:C1:379:U:P	1:C1:379:U:O3'	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:539:G:C2	1:C1:543:C:N3	2.79	0.51
1:C1:545:A:N7	1:C1:594:A:N7	2.58	0.51
1:C1:563:U:O4	1:C1:564:G:O6	2.28	0.51
1:C1:571:G:N3	1:C1:571:G:C2'	2.74	0.51
1:C1:624:G:H1'	1:C1:1027:A:N3	2.25	0.51
1:C1:729:G:OP2	1:C1:729:G:H8	1.91	0.51
1:C1:865:A:H2'	1:C1:866:G:H8	1.76	0.51
1:C1:1160:A:H2'	1:C1:1161:C:C5	2.43	0.51
1:C1:1354:G:C6	1:C1:1355:C:C4	2.99	0.51
1:C1:1474:G:C4	1:C1:1475:A:N7	2.79	0.51
1:C1:1485:C:H3'	1:C1:1486:G:C5'	2.37	0.51
1:C1:1493:A:OP2	1:C1:1494:C:P	2.69	0.51
1:C1:1498:G:C2	1:C1:1499:G:C8	2.98	0.51
1:C1:1537:C:H5'	1:C1:1538:U:OP1	2.10	0.51
1:C1:1558:U:N1	1:C1:1559:A:H2	2.08	0.51
1:C1:1571:C:H5"	1:C1:1572:G:OP2	2.11	0.51
1:C1:1640:C:H6	1:C1:1640:C:O5'	1.93	0.51
1:C1:1657:U:N3	74:C1:1955:OHX:N1	2.59	0.51
1:C1:1678:A:H2	1:C1:1725:U:C2	2.28	0.51
74:C1:1924:OHX:N4	74:C1:1964:OHX:N5	2.59	0.51
3:CB:80:VAL:HA	3:CB:102:VAL:CB	2.40	0.51
10:CI:81:ARG:HA	10:CI:117:GLY:H	1.74	0.51
11:CJ:83:GLN:O	11:CJ:84:ALA:C	2.53	0.51
12:CK:23:LYS:CB	12:CK:64:GLY:O	2.59	0.51
23:Cb:4:UNK:O	23:Cb:5:UNK:CB	2.58	0.51
29:D1:92:G:O6	29:D1:94:G:N2	2.44	0.51
29:D1:102:C:C4'	29:D1:103:G:OP1	2.58	0.51
29:D1:242:C:H2'	29:D1:243:G:O5'	2.10	0.51
29:D1:382:U:H3'	29:D1:383:G:C4'	2.40	0.51
29:D1:510:G:N1	29:D1:511:G:C4	2.78	0.51
29:D1:514:G:O2'	37:DF:145:LEU:C	2.53	0.51
29:D1:556:U:C3'	29:D1:557:A:O4'	2.58	0.51
29:D1:595:G:C5	29:D1:596:C:C5	2.98	0.51
29:D1:595:G:H3'	29:D1:595:G:C8	2.46	0.51
29:D1:692:A:H2'	29:D1:693:A:O4'	2.11	0.51
29:D1:712:G:H2'	29:D1:713:U:O4'	2.10	0.51
29:D1:883:A:C6	29:D1:921:A:C6	2.98	0.51
29:D1:920:A:H5"	29:D1:922:U:C5	2.46	0.51
29:D1:1101:G:N3	29:D1:1101:G:H2'	2.25	0.51
29:D1:1199:C:O2	29:D1:1199:C:C2'	2.58	0.51
29:D1:1229:G:C4	29:D1:1230:G:C8	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1372:C:C2'	29:D1:1373:A:H5'	2.40	0.51
29:D1:1556:C:O2	29:D1:1556:C:C2'	2.58	0.51
29:D1:1631:C:O5'	29:D1:1813:A:N1	2.43	0.51
29:D1:1891:A:C6	29:D1:2345:A:N6	2.79	0.51
29:D1:2156:C:O2'	29:D1:2157:G:H5'	2.11	0.51
29:D1:2299:A:C5	29:D1:2300:G:N7	2.78	0.51
29:D1:2396:G:O2'	29:D1:2398:A:C4'	2.55	0.51
29:D1:2487:U:H4'	29:D1:2488:A:OP2	2.08	0.51
29:D1:2574:G:O2'	29:D1:2575:G:H5'	2.11	0.51
29:D1:2792:A:C2'	29:D1:2793:G:H5'	2.41	0.51
29:D1:2992:U:O4	29:D1:2993:G:H8	1.93	0.51
29:D1:3012:A:C5	29:D1:3013:U:C5	2.99	0.51
29:D1:3070:A:C6	29:D1:3071:U:C4	2.98	0.51
29:D1:3091:A:N3	29:D1:3094:A:C8	2.78	0.51
29:D1:3141:A:H2	29:D1:3144:G:P	2.34	0.51
29:D1:3203:U:OP2	29:D1:3203:U:H3'	2.10	0.51
29:D1:3215:A:C5'	29:D1:3218:A:C5'	2.84	0.51
29:D1:3368:U:H6	29:D1:3368:U:H5'	1.75	0.51
30:D2:12:U:N1	30:D2:70:U:OP1	2.43	0.51
30:D2:48:U:C6	30:D2:49:G:O6	2.64	0.51
31:D3:43:A:H4'	59:Dd:22:CYS:HA	1.93	0.51
34:DC:111:SER:HA	34:DC:112:ASP:C	2.35	0.51
34:DC:116:ARG:O	34:DC:117:ARG:CB	2.57	0.51
34:DC:145:GLU:O	34:DC:149:ALA:N	2.43	0.51
36:DE:87:GLY:O	36:DE:241:THR:CB	2.58	0.51
36:DE:288:ALA:HB1	36:DE:292:ALA:C	2.35	0.51
72:DL:54:LYS:O	72:DL:55:GLY:O	2.27	0.51
73:DM:32:ASN:O	73:DM:33:VAL:CB	2.58	0.51
50:DU:13:ILE:O	50:DU:14:SER:C	2.52	0.51
57:Db:6:HIS:HA	57:Db:9:ILE:CB	2.40	0.51
61:Df:47:GLN:H	61:Df:48:SER:HA	1.76	0.51
1:A1:23:G:C6	1:A1:24:U:C4	2.98	0.51
1:A1:395:U:O4	1:A1:396:G:N1	2.43	0.51
1:A1:400:A:C5'	1:A1:401:A:H5'	2.41	0.51
1:A1:447:U:O2'	1:A1:448:C:O4'	2.22	0.51
1:A1:1086:A:H2	1:A1:1141:G:N3	2.07	0.51
1:A1:1170:G:H2'	1:A1:1170:G:N3	2.26	0.51
1:A1:1237:G:C5	1:A1:1238:A:N7	2.79	0.51
1:A1:1349:G:H3'	1:A1:1349:G:P	2.51	0.51
1:A1:1391:A:H2'	1:A1:1392:U:H6	1.75	0.51
2:AA:17:LEU:C	2:AA:19:ALA:H	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:182:ALA:O	5:AD:184:PHE:N	2.43	0.51
9:AH:60:ALA:O	9:AH:63:ALA:CB	2.54	0.51
12:AK:12:ALA:HA	12:AK:15:ALA:HB3	1.91	0.51
13:AL:98:TYR:O	13:AL:99:HIS:CB	2.59	0.51
15:AN:101:LYS:O	15:AN:103:ILE:N	2.43	0.51
29:B1:389:A:H5'	46:BQ:17:ALA:HA	1.91	0.51
29:B1:396:A:O2'	29:B1:397:A:C5'	2.59	0.51
29:B1:527:A:C6	29:B1:566:G:C6	2.99	0.51
29:B1:672:A:N6	29:B1:791:A:N6	2.58	0.51
29:B1:692:A:C2	29:B1:693:A:C4	2.99	0.51
29:B1:774:G:H2'	29:B1:775:A:C5'	2.40	0.51
29:B1:820:A:N3	29:B1:911:C:O2'	2.35	0.51
29:B1:1011:A:N6	29:B1:1039:U:H3	1.88	0.51
29:B1:1065:A:O3'	29:B1:1066:G:H8	1.94	0.51
29:B1:1139:G:C5	29:B1:1140:G:C8	2.99	0.51
29:B1:1311:G:C2'	29:B1:1312:C:O5'	2.58	0.51
29:B1:1464:G:N3	29:B1:1464:G:H2'	2.25	0.51
29:B1:1491:A:H2'	29:B1:1492:G:O4'	2.10	0.51
29:B1:1611:G:H2'	29:B1:1612:A:C8	2.46	0.51
29:B1:1687:U:C2'	29:B1:1688:U:H4'	2.41	0.51
29:B1:1720:U:H3'	29:B1:1720:U:H6	1.75	0.51
29:B1:1731:A:C8	29:B1:1732:U:C5	2.99	0.51
29:B1:1747:G:C5	29:B1:1748:G:C8	2.98	0.51
29:B1:1797:A:H2'	29:B1:1798:A:H8	1.76	0.51
29:B1:1845:G:H2'	29:B1:1846:C:OP1	2.11	0.51
29:B1:1920:U:H1'	29:B1:1933:A:C6	2.46	0.51
29:B1:1945:A:H2'	29:B1:1946:A:C8	2.46	0.51
29:B1:2140:U:OP1	29:B1:2141:U:OP2	2.29	0.51
29:B1:2198:A:C4	29:B1:2199:G:C8	2.99	0.51
29:B1:2251:G:C2	29:B1:2252:A:C8	2.98	0.51
29:B1:2376:G:O6	29:B1:2377:G:O6	2.28	0.51
29:B1:2649:A:C6	29:B1:2650:U:C5	2.99	0.51
29:B1:2696:A:N7	29:B1:2697:A:C6	2.79	0.51
29:B1:2710:C:H3'	29:B1:2710:C:C6	2.46	0.51
29:B1:2957:G:H8	29:B1:2957:G:H5'	1.76	0.51
29:B1:3203:U:H2'	29:B1:3204:C:C2	2.46	0.51
29:B1:3234:A:C2	29:B1:3253:G:N2	2.72	0.51
29:B1:3270:U:H4'	29:B1:3271:G:O5'	2.11	0.51
29:B1:3282:U:O2'	29:B1:3283:U:C5	2.63	0.51
29:B1:3390:G:N3	29:B1:3391:A:H1'	2.25	0.51
29:B1:3390:G:N1	29:B1:3391:A:C4	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:82:G:C5	30:B2:99:G:C2	2.98	0.51
31:B3:18:U:N3	31:B3:19:C:C4	2.77	0.51
35:BD:115:HIS:O	35:BD:116:ASN:C	2.53	0.51
38:BG:233:GLU:CB	38:BG:234:GLU:CB	2.89	0.51
57:Bb:78:ASN:O	57:Bb:80:LYS:N	2.43	0.51
57:Bb:110:ALA:O	57:Bb:111:ARG:C	2.53	0.51
1:C1:38:C:H2'	1:C1:39:A:H5"	1.92	0.51
1:C1:55:A:C3'	1:C1:56:U:C5'	2.89	0.51
1:C1:63:G:H2'	1:C1:64:U:O4'	2.11	0.51
1:C1:142:G:N7	1:C1:266:A:C5	2.73	0.51
1:C1:214:G:O2'	1:C1:215:A:OP1	2.28	0.51
1:C1:486:G:O6	1:C1:487:G:C5	2.64	0.51
1:C1:487:G:HO2'	1:C1:488:G:H8	1.59	0.51
1:C1:528:U:H3	1:C1:530:C:N4	2.08	0.51
1:C1:568:G:C2	1:C1:569:C:C6	2.99	0.51
1:C1:692:C:N3	1:C1:693:U:N3	2.58	0.51
1:C1:757:A:N3	1:C1:758:U:C6	2.78	0.51
1:C1:863:A:C2'	1:C1:865:A:H8	2.24	0.51
1:C1:908:U:C5	1:C1:909:U:C5	2.99	0.51
1:C1:973:A:H5'	29:D1:848:A:C2	2.46	0.51
1:C1:1101:G:O2'	1:C1:1102:G:H5'	2.11	0.51
1:C1:1149:G:N2	1:C1:1150:G:O6	2.44	0.51
1:C1:1181:U:H4'	10:CI:127:ARG:CB	2.41	0.51
1:C1:1305:U:OP2	1:C1:1306:C:N4	2.40	0.51
1:C1:1351:G:C6	1:C1:1352:G:N7	2.79	0.51
1:C1:1389:C:C4	1:C1:1391:A:O4'	2.64	0.51
1:C1:1631:A:H2'	1:C1:1632:C:C4'	2.39	0.51
1:C1:1636:C:C4	1:C1:1638:G:C2	2.99	0.51
20:CS:38:ILE:O	20:CS:41:GLN:N	2.42	0.51
29:D1:46:U:C6	29:D1:46:U:C3'	2.94	0.51
29:D1:233:C:H2'	29:D1:234:G:O4'	2.10	0.51
29:D1:280:U:C2	29:D1:282:G:O2'	2.57	0.51
29:D1:378:A:C3'	29:D1:378:A:C4	2.92	0.51
29:D1:384:A:C4	29:D1:1465:A:N1	2.78	0.51
29:D1:387:A:H2'	29:D1:388:G:O4'	2.11	0.51
29:D1:407:A:N1	31:D3:17:A:C1'	2.73	0.51
29:D1:518:G:C8	29:D1:518:G:H5"	2.46	0.51
29:D1:559:A:C4	29:D1:560:G:C8	2.98	0.51
29:D1:611:A:OP1	29:D1:611:A:C4'	2.53	0.51
29:D1:611:A:C3'	29:D1:612:U:H5"	2.19	0.51
29:D1:715:A:H5"	54:DY:114:GLY:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1084:A:C6	29:D1:1085:A:C6	2.99	0.51
29:D1:1273:A:H3'	29:D1:1274:A:H8	1.75	0.51
29:D1:1393:A:N7	29:D1:1418:A:N7	2.59	0.51
29:D1:1406:A:H2'	29:D1:1407:A:C8	2.45	0.51
29:D1:1455:U:C2'	29:D1:1456:A:C8	2.93	0.51
29:D1:1489:A:C4	29:D1:1490:A:C8	2.99	0.51
29:D1:1908:A:C5	29:D1:1909:A:C5	2.99	0.51
29:D1:2277:C:O2'	29:D1:2278:C:O5'	2.23	0.51
29:D1:2476:C:H2'	29:D1:2477:G:H4'	1.91	0.51
29:D1:2762:A:H2'	29:D1:2763:U:C6	2.45	0.51
29:D1:2861:U:C2'	29:D1:2862:U:H6	2.21	0.51
29:D1:2959:C:C5'	29:D1:2960:C:OP2	2.59	0.51
29:D1:2974:U:H2'	29:D1:2975:U:H6	1.74	0.51
29:D1:3099:C:OP2	29:D1:3099:C:H3'	2.10	0.51
29:D1:3147:G:H2'	29:D1:3148:U:O5'	2.09	0.51
29:D1:3301:U:C2'	29:D1:3302:U:C5	2.93	0.51
29:D1:3314:A:C2'	34:DC:119:TYR:H	2.21	0.51
29:D1:3322:A:OP2	29:D1:3323:A:P	2.69	0.51
29:D1:3377:G:O4'	29:D1:3378:C:H5'	2.11	0.51
30:D2:43:U:C4	30:D2:44:C:C5	2.99	0.51
32:DA:56:PRO:O	32:DA:57:ASN:CB	2.58	0.51
34:DC:261:MET:HA	34:DC:263:SER:O	2.09	0.51
37:DF:21:THR:O	37:DF:111:LEU:N	2.43	0.51
38:DG:219:LYS:O	38:DG:221:LYS:N	2.43	0.51
41:DJ:20:SER:O	41:DJ:22:TYR:N	2.44	0.51
43:DN:76:ALA:O	43:DN:79:ALA:N	2.43	0.51
45:DP:10:ASP:O	45:DP:11:GLY:C	2.53	0.51
46:DQ:25:SER:CB	46:DQ:29:THR:H	2.24	0.51
46:DQ:77:GLY:O	46:DQ:79:THR:N	2.43	0.51
46:DQ:111:LYS:O	46:DQ:113:TYR:N	2.44	0.51
50:DU:46:LEU:O	50:DU:47:ASN:CB	2.59	0.51
57:Db:74:PHE:O	57:Db:76:VAL:N	2.41	0.51
59:Dd:65:ARG:C	59:Dd:67:LEU:N	2.69	0.51
63:Dh:15:UNK:C	63:Dh:17:UNK:N	2.70	0.51
1:A1:10:G:N2	1:A1:11:A:H1'	2.26	0.51
1:A1:18:C:H5'	1:A1:1137:A:N6	2.26	0.51
1:A1:41:A:C2	1:A1:438:A:C5	2.99	0.51
1:A1:44:U:C3'	1:A1:45:U:H5'	2.38	0.51
1:A1:158:U:O2'	1:A1:159:U:P	2.69	0.51
1:A1:168:A:C6	1:A1:169:A:C6	2.99	0.51
1:A1:207:U:N3	1:A1:208:U:C4	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:310:C:H5'	1:A1:310:C:H6	1.74	0.51
1:A1:329:G:C2'	1:A1:330:G:H8	1.94	0.51
1:A1:392:G:H2'	1:A1:393:C:O4'	2.11	0.51
1:A1:738:G:C2'	1:A1:739:G:C8	2.91	0.51
1:A1:795:U:O2	1:A1:795:U:O4'	2.27	0.51
1:A1:1109:G:N1	1:A1:1110:G:N7	2.59	0.51
1:A1:1122:G:N2	1:A1:1126:G:C5	2.78	0.51
1:A1:1221:A:C4	1:A1:1222:C:C5	2.98	0.51
1:A1:1348:A:O5'	15:AN:10:GLU:O	2.28	0.51
1:A1:1383:G:H2'	1:A1:1384:A:O5'	2.11	0.51
1:A1:1513:G:C2'	1:A1:1514:U:OP1	2.59	0.51
1:A1:1579:U:H2'	1:A1:1580:C:H6	1.76	0.51
1:A1:1604:U:H3'	1:A1:1605:G:C5'	2.28	0.51
74:A1:1916:OHX:N3	74:A1:1975:OHX:N1	2.59	0.51
2:AA:173:ILE:C	2:AA:175:TYR:N	2.67	0.51
4:AC:69:LEU:O	4:AC:70:THR:C	2.53	0.51
5:AD:39:GLU:HA	5:AD:40:ILE:CB	2.41	0.51
15:AN:32:LYS:C	15:AN:34:LEU:H	2.18	0.51
23:Ab:82:UNK:C	23:Ab:86:UNK:O	2.58	0.51
29:B1:30:G:C2	29:B1:55:G:C6	2.99	0.51
29:B1:431:U:C2	29:B1:432:G:C8	2.99	0.51
29:B1:518:G:H1	29:B1:572:A:H61	1.58	0.51
29:B1:547:G:C8	29:B1:548:G:C8	2.99	0.51
29:B1:578:A:HO2'	29:B1:579:G:P	2.30	0.51
29:B1:712:G:C6	29:B1:713:U:C4	2.99	0.51
29:B1:746:A:C2'	29:B1:747:A:OP1	2.59	0.51
29:B1:939:U:O2'	29:B1:940:G:H5'	2.10	0.51
29:B1:961:C:HO2'	29:B1:962:A:P	2.34	0.51
29:B1:991:G:C4	29:B1:992:A:C8	2.99	0.51
29:B1:1025:A:C5'	29:B1:1028:U:H3	2.24	0.51
29:B1:1101:G:N3	29:B1:1101:G:H2'	2.26	0.51
29:B1:1152:G:O2'	29:B1:1153:A:P	2.69	0.51
29:B1:1203:A:H2'	29:B1:2855:U:O2'	2.11	0.51
29:B1:1217:A:C5'	29:B1:1218:U:OP2	2.57	0.51
29:B1:1460:A:OP1	56:Ba:50:ARG:HA	2.10	0.51
29:B1:1513:G:N1	29:B1:1515:A:H1'	2.26	0.51
29:B1:1602:A:C6	29:B1:1603:A:N1	2.79	0.51
29:B1:1695:U:O2'	29:B1:1749:A:N6	2.44	0.51
29:B1:1700:G:H2'	29:B1:1701:C:C6	2.45	0.51
29:B1:1706:C:C6	29:B1:1707:A:C8	2.99	0.51
29:B1:1706:C:H3'	29:B1:1707:A:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1896:A:C2	29:B1:3093:C:C5	2.99	0.51
29:B1:2152:A:O2'	29:B1:2153:U:H5'	2.10	0.51
29:B1:2289:U:H2'	29:B1:2290:C:H5'	1.93	0.51
29:B1:2297:U:C2	29:B1:2299:A:C6	2.99	0.51
29:B1:2515:A:N6	29:B1:2593:A:N7	2.59	0.51
29:B1:2617:U:C6	29:B1:2620:G:OP1	2.63	0.51
29:B1:2655:U:O4'	29:B1:2656:A:C4	2.64	0.51
29:B1:2667:A:N6	29:B1:2690:G:H1	1.98	0.51
29:B1:2841:G:C5	29:B1:2844:C:C4	2.99	0.51
29:B1:2855:U:OP2	41:BJ:6:ALA:HB3	2.10	0.51
29:B1:3113:A:N6	29:B1:3114:A:N1	2.59	0.51
29:B1:3154:C:O2	29:B1:3154:C:H3'	2.11	0.51
29:B1:3330:A:C4	29:B1:3331:U:C5	2.99	0.51
30:B2:13:A:H5'	30:B2:112:G:C1'	2.31	0.51
30:B2:30:G:C2'	30:B2:31:U:O5'	2.58	0.51
30:B2:91:G:N1	30:B2:92:A:C5	2.78	0.51
30:B2:104:A:C4	30:B2:105:C:C6	2.98	0.51
30:B2:114:U:H2'	30:B2:115:G:C1'	2.41	0.51
31:B3:28:C:C5'	31:B3:29:U:OP2	2.55	0.51
31:B3:39:G:H4'	31:B3:40:A:H5"	1.91	0.51
31:B3:94:C:C4'	31:B3:95:G:OP2	2.53	0.51
32:BA:59:PRO:O	32:BA:60:ARG:CB	2.59	0.51
34:BC:208:VAL:O	34:BC:209:PHE:CB	2.57	0.51
35:BD:117:GLU:C	35:BD:119:ARG:N	2.69	0.51
39:BH:239:GLY:C	39:BH:241:LYS:N	2.68	0.51
44:BO:137:PRO:C	44:BO:139:HIS:H	2.19	0.51
48:BS:59:SER:C	48:BS:61:SER:N	2.69	0.51
49:BT:14:MET:C	49:BT:16:GLN:N	2.68	0.51
50:BU:17:LEU:O	50:BU:52:ALA:N	2.44	0.51
60:Be:26:TRP:C	60:Be:28:ARG:N	2.67	0.51
63:Bh:41:UNK:O	63:Bh:42:UNK:C	2.55	0.51
1:C1:42:G:C8	1:C1:437:A:H3'	2.46	0.51
1:C1:44:U:C5'	1:C1:45:U:O4	2.58	0.51
1:C1:184:C:C4	1:C1:202:A:C2	2.98	0.51
1:C1:195:G:H1'	1:C1:196:G:OP1	2.10	0.51
1:C1:430:G:H2'	1:C1:431:C:H6	1.76	0.51
1:C1:553:G:C6	1:C1:554:C:C4	2.98	0.51
1:C1:877:G:H5'	1:C1:936:G:H21	1.75	0.51
1:C1:1039:A:O4'	1:C1:1081:A:N6	2.44	0.51
1:C1:1052:U:N3	1:C1:1053:G:N7	2.58	0.51
1:C1:1065:A:H2'	1:C1:1066:C:C1'	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1096:C:C2	1:C1:1098:U:OP2	2.64	0.51
1:C1:1242:A:C2	1:C1:1243:G:C2	2.98	0.51
1:C1:1269:U:O2	1:C1:1269:U:O4'	2.26	0.51
1:C1:1355:C:H2'	1:C1:1356:U:C6	2.45	0.51
1:C1:1431:C:C2	1:C1:1437:U:O4	2.64	0.51
1:C1:1491:U:H2'	1:C1:1492:A:H2'	1.91	0.51
1:C1:1596:C:O2	1:C1:1596:C:O4'	2.27	0.51
1:C1:1599:C:O2	1:C1:1600:A:C2	2.64	0.51
1:C1:1739:C:H2'	1:C1:1740:A:C8	2.46	0.51
2:CA:178:ALA:HB1	2:CA:182:LEU:CB	2.40	0.51
3:CB:122:ALA:O	3:CB:123:GLY:C	2.53	0.51
5:CD:134:VAL:C	5:CD:136:ALA:N	2.68	0.51
10:CI:97:TYR:HA	10:CI:102:PHE:N	2.23	0.51
13:CL:62:THR:O	13:CL:65:GLU:CB	2.59	0.51
18:CQ:80:LEU:C	18:CQ:82:HIS:N	2.69	0.51
21:CT:216:LYS:C	21:CT:218:GLY:N	2.68	0.51
22:Ca:10:UNK:O	22:Ca:13:UNK:N	2.44	0.51
29:D1:26:A:H2	29:D1:330:G:H21	1.57	0.51
29:D1:92:G:N7	29:D1:94:G:C2	2.79	0.51
29:D1:331:G:O2'	29:D1:332:C:P	2.69	0.51
29:D1:331:G:C2	29:D1:332:C:C4	2.98	0.51
29:D1:334:A:C2'	29:D1:335:G:O5'	2.59	0.51
29:D1:370:U:OP1	74:D1:3625:OHX:N1	2.43	0.51
29:D1:395:A:C5	29:D1:396:A:N6	2.78	0.51
29:D1:431:U:C2	29:D1:432:G:N7	2.78	0.51
29:D1:595:G:H1	29:D1:609:G:C4'	2.24	0.51
29:D1:596:C:O2	29:D1:597:G:H5'	2.10	0.51
29:D1:698:U:O4'	29:D1:699:A:OP1	2.27	0.51
29:D1:717:C:H5	29:D1:721:G:OP2	1.92	0.51
29:D1:863:C:H2'	29:D1:864:G:C5'	2.41	0.51
29:D1:943:U:C1'	29:D1:944:C:OP1	2.59	0.51
29:D1:943:U:C2	29:D1:1432:C:H5	2.29	0.51
29:D1:945:C:N3	29:D1:946:U:C5	2.79	0.51
29:D1:959:C:N4	29:D1:2801:A:H5"	2.24	0.51
29:D1:1144:U:O2'	29:D1:1145:G:P	2.69	0.51
29:D1:1184:A:C2'	29:D1:1185:C:O5'	2.59	0.51
29:D1:1225:A:O2'	29:D1:1226:G:OP1	2.29	0.51
29:D1:1319:G:O2'	29:D1:1320:C:H5"	2.11	0.51
29:D1:1358:C:H5"	29:D1:1359:C:OP2	2.11	0.51
29:D1:1390:A:C5	29:D1:1418:A:C6	2.98	0.51
29:D1:1414:G:N2	29:D1:1415:U:H1'	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1621:A:H2'	29:D1:1622:U:C5	2.45	0.51
29:D1:1644:C:OP1	29:D1:1821:U:N3	2.44	0.51
29:D1:1678:G:N3	29:D1:1679:A:C8	2.78	0.51
29:D1:2254:U:H2'	29:D1:2261:G:H1	1.74	0.51
29:D1:2423:U:C2'	29:D1:2424:A:OP2	2.58	0.51
29:D1:2435:G:C6	29:D1:2593:A:C5	2.98	0.51
29:D1:2641:U:H5"	29:D1:2642:A:OP1	2.10	0.51
29:D1:2725:U:O4	29:D1:2727:A:N3	2.44	0.51
29:D1:2808:A:C8	29:D1:2955:U:O3'	2.63	0.51
29:D1:3316:A:N6	29:D1:3388:C:N4	2.49	0.51
29:D1:3321:C:O2'	29:D1:3322:A:H5'	2.11	0.51
29:D1:3333:G:N1	29:D1:3370:A:O2'	2.43	0.51
29:D1:3390:G:C5	29:D1:3391:A:C8	2.98	0.51
30:D2:12:U:C6	30:D2:70:U:OP1	2.64	0.51
30:D2:60:G:H2'	30:D2:61:G:C8	2.36	0.51
31:D3:53:A:C6	31:D3:54:A:C6	2.98	0.51
31:D3:75:G:P	31:D3:90:U:C5'	2.98	0.51
34:DC:261:MET:CA	34:DC:263:SER:O	2.58	0.51
36:DE:109:THR:C	36:DE:252:ALA:HB2	2.35	0.51
36:DE:192:PRO:O	36:DE:193:GLU:C	2.54	0.51
38:DG:111:ILE:O	38:DG:113:SER:N	2.44	0.51
39:DH:100:GLU:C	39:DH:102:ALA:N	2.64	0.51
72:DL:23:GLY:C	72:DL:25:SER:H	2.19	0.51
43:DN:24:LYS:HA	43:DN:31:LYS:CA	2.40	0.51
54:DY:5:PHE:O	54:DY:8:THR:N	2.31	0.51
57:Db:103:LYS:O	57:Db:105:ARG:N	2.44	0.51
1:A1:62:A:OP2	1:A1:62:A:C3'	2.59	0.51
1:A1:78:A:OP1	1:A1:78:A:H2	1.94	0.51
1:A1:112:A:C4'	1:A1:113:U:OP1	2.55	0.51
1:A1:185:U:H2'	1:A1:186:C:O4'	2.10	0.51
1:A1:210:A:C3'	1:A1:211:U:H5"	2.41	0.51
1:A1:362:G:O6	1:A1:382:C:N4	2.23	0.51
1:A1:408:C:H1'	1:A1:1731:A:N3	2.25	0.51
1:A1:463:U:C2	1:A1:464:A:C8	2.99	0.51
1:A1:478:A:C2	1:A1:510:G:N2	2.79	0.51
1:A1:520:A:C4	1:A1:521:A:C8	2.99	0.51
1:A1:714:G:H2'	1:A1:715:U:O4'	2.11	0.51
1:A1:948:G:C6	1:A1:949:C:N4	2.79	0.51
1:A1:1087:A:N6	1:A1:1088:A:N6	2.59	0.51
1:A1:1137:A:H2	1:A1:1138:A:C6	2.27	0.51
1:A1:1139:A:OP2	74:A1:1976:OHX:N6	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1164:G:H2'	1:A1:1165:G:H8	1.76	0.51
1:A1:1483:A:C5'	1:A1:1521:G:O2'	2.59	0.51
1:A1:1550:A:H2'	1:A1:1551:U:H6	1.75	0.51
1:A1:1584:G:C8	11:AJ:123:ARG:O	2.63	0.51
1:A1:1588:G:H1	1:A1:1608:U:H3	1.58	0.51
1:A1:1645:G:H2'	1:A1:1646:C:H6	1.76	0.51
1:A1:1645:G:C2	1:A1:1757:G:C4	2.98	0.51
1:A1:1733:C:C4	1:A1:1734:U:C5	2.99	0.51
3:AB:149:GLY:C	3:AB:151:PRO:N	2.67	0.51
4:AC:61:GLU:C	4:AC:63:GLY:N	2.69	0.51
6:AE:68:LYS:O	6:AE:69:ARG:C	2.54	0.51
23:Ab:79:UNK:C	23:Ab:81:UNK:N	2.74	0.51
23:Ab:110:UNK:O	23:Ab:113:UNK:N	2.44	0.51
29:B1:96:G:H2'	29:B1:97:U:O5'	2.10	0.51
29:B1:189:G:C5	29:B1:206:G:C6	2.99	0.51
29:B1:246:U:H3'	29:B1:246:U:P	2.50	0.51
29:B1:268:A:N9	29:B1:270:U:O2	2.43	0.51
29:B1:278:U:C6	29:B1:279:U:H5	2.29	0.51
29:B1:346:C:C5	29:B1:348:A:H5"	2.46	0.51
29:B1:382:U:C5	29:B1:383:G:C8	2.99	0.51
29:B1:510:G:C2	29:B1:511:G:C4	2.99	0.51
29:B1:521:A:N7	29:B1:571:U:O4	2.44	0.51
29:B1:525:C:H2'	29:B1:526:C:C6	2.46	0.51
29:B1:592:A:OP2	29:B1:592:A:H3'	2.11	0.51
29:B1:650:C:H5'	29:B1:2872:A:P	2.51	0.51
29:B1:744:A:H2'	29:B1:745:C:C6	2.45	0.51
29:B1:760:G:O2'	29:B1:761:A:H8	1.94	0.51
29:B1:891:G:C5	29:B1:892:U:C4	2.99	0.51
29:B1:896:A:N7	29:B1:2134:G:H1'	2.26	0.51
29:B1:952:A:H1'	29:B1:1114:U:H1'	1.93	0.51
29:B1:955:U:C4	29:B1:956:U:C4	2.99	0.51
29:B1:963:G:C8	29:B1:963:G:C3'	2.94	0.51
29:B1:1047:A:N3	29:B1:2633:U:O2'	2.44	0.51
29:B1:1302:A:H1'	29:B1:2887:A:H2	1.72	0.51
29:B1:1365:G:H8	29:B1:1365:G:OP2	1.94	0.51
29:B1:1409:G:O2'	29:B1:1410:U:H5'	2.11	0.51
29:B1:1506:A:C1'	29:B1:1848:G:O6	2.59	0.51
29:B1:1797:A:C6	29:B1:1798:A:C6	2.99	0.51
29:B1:1888:U:H2'	29:B1:1889:G:O4'	2.10	0.51
29:B1:2112:U:H1'	29:B1:2113:A:P	2.50	0.51
29:B1:2206:G:H2'	29:B1:2207:A:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2279:A:H4'	29:B1:2280:A:C5'	2.40	0.51
29:B1:2561:A:N6	29:B1:2579:G:C5	2.77	0.51
29:B1:2602:G:C2	29:B1:2603:G:C8	2.98	0.51
29:B1:2661:G:C4	29:B1:2662:G:C8	2.99	0.51
29:B1:2678:A:O4'	29:B1:2679:A:C2	2.59	0.51
29:B1:2732:G:C6	29:B1:2733:A:C6	2.99	0.51
29:B1:2798:C:O5'	29:B1:2799:A:OP1	2.29	0.51
29:B1:2992:U:H6	29:B1:2992:U:H5"	1.76	0.51
29:B1:3048:A:N6	29:B1:3090:U:C3'	2.72	0.51
29:B1:3135:U:H3'	29:B1:3136:G:C8	2.45	0.51
29:B1:3165:A:O2'	29:B1:3166:C:H5'	2.11	0.51
29:B1:3276:G:C2'	29:B1:3277:U:O4'	2.57	0.51
29:B1:3310:A:H2'	29:B1:3311:C:H5'	1.93	0.51
29:B1:3334:U:C5'	29:B1:3371:G:N2	2.62	0.51
29:B1:3381:U:N3	29:B1:3383:G:C6	2.78	0.51
30:B2:48:U:C6	30:B2:49:G:O6	2.64	0.51
30:B2:62:U:H5'	30:B2:63:A:OP2	2.11	0.51
40:BI:43:VAL:O	40:BI:56:ALA:O	2.28	0.51
41:BJ:37:GLY:HA3	41:BJ:86:HIS:N	2.25	0.51
41:BJ:152:LEU:O	41:BJ:153:ARG:C	2.54	0.51
41:BJ:205:SER:N	41:BJ:206:LEU:HA	2.26	0.51
46:BQ:74:LYS:O	46:BQ:75:GLU:CB	2.59	0.51
59:Bd:43:LYS:O	59:Bd:45:ARG:N	2.39	0.51
1:C1:10:G:C2	1:C1:11:A:N9	2.79	0.51
1:C1:13:C:H5'	3:CB:161:LYS:O	2.11	0.51
1:C1:57:G:C6	1:C1:91:G:N1	2.79	0.51
1:C1:95:G:H5"	1:C1:96:G:OP2	2.11	0.51
1:C1:173:A:N3	1:C1:174:U:O4'	2.43	0.51
1:C1:244:A:H2'	1:C1:245:U:C6	2.46	0.51
1:C1:249:U:C3'	1:C1:250:C:C5'	2.80	0.51
1:C1:408:C:H1'	1:C1:1731:A:N3	2.26	0.51
1:C1:418:G:N2	1:C1:419:G:C5	2.79	0.51
1:C1:735:C:H2'	1:C1:736:C:C5	2.45	0.51
1:C1:856:A:H3'	1:C1:857:U:C5'	2.41	0.51
1:C1:1066:C:C2'	1:C1:1067:C:H5'	2.41	0.51
1:C1:1075:C:O2'	1:C1:1076:A:H5'	2.11	0.51
1:C1:1198:G:N3	1:C1:1198:G:H2'	2.26	0.51
1:C1:1213:G:N2	1:C1:1214:U:H1'	2.26	0.51
1:C1:1325:A:H2'	1:C1:1326:A:H8	1.76	0.51
1:C1:1722:A:H5'	1:C1:1723:U:C5	2.46	0.51
8:CG:108:ASP:O	8:CG:111:ALA:CB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:129:TYR:C	8:CG:131:THR:H	2.19	0.51
12:CK:53:TYR:O	12:CK:56:HIS:CB	2.59	0.51
13:CL:42:TYR:O	13:CL:43:SER:C	2.54	0.51
14:CM:17:ALA:HB2	14:CM:59:ALA:HB2	1.93	0.51
29:D1:70:A:H2	29:D1:71:A:O2'	1.89	0.51
29:D1:87:U:H2'	29:D1:87:U:O2	2.10	0.51
29:D1:373:A:C2	29:D1:375:A:C5	2.99	0.51
29:D1:424:G:O5'	29:D1:424:G:H8	1.94	0.51
29:D1:431:U:O2'	29:D1:432:G:P	2.69	0.51
29:D1:575:G:H2'	29:D1:576:C:C5	2.44	0.51
29:D1:651:G:O2'	29:D1:652:G:H5'	2.11	0.51
29:D1:856:G:C6	29:D1:857:G:N1	2.79	0.51
29:D1:890:C:O2	29:D1:2324:A:H2	1.94	0.51
29:D1:1494:U:O2'	29:D1:1496:C:N4	2.42	0.51
29:D1:1564:U:H2'	29:D1:1565:G:H8	1.75	0.51
29:D1:1779:C:O4'	29:D1:1779:C:P	2.69	0.51
29:D1:2117:A:H2'	29:D1:2118:C:C6	2.45	0.51
29:D1:2246:G:N3	29:D1:2247:G:C8	2.78	0.51
29:D1:2254:U:C4	74:D1:3583:OHX:N5	2.79	0.51
29:D1:2274:U:OP1	74:D1:3539:OHX:N6	2.43	0.51
29:D1:2281:A:H1'	29:D1:2282:U:OP1	2.11	0.51
29:D1:2308:C:OP1	29:D1:2309:A:C2'	2.58	0.51
29:D1:2324:A:H5"	29:D1:2325:G:P	2.50	0.51
29:D1:2389:C:C2'	29:D1:2390:A:O5'	2.59	0.51
29:D1:2584:G:O2'	29:D1:2585:G:H4'	2.10	0.51
29:D1:2619:G:H8	29:D1:2619:G:OP1	1.93	0.51
29:D1:2655:U:C2	29:D1:2656:A:N1	2.78	0.51
29:D1:2847:A:H62	29:D1:2898:G:N2	2.08	0.51
29:D1:3006:A:N7	29:D1:3007:U:C2	2.79	0.51
29:D1:3011:A:N1	34:DC:13:HIS:HA	2.26	0.51
29:D1:3072:C:H2'	29:D1:3073:A:C5'	2.41	0.51
29:D1:3078:U:H4'	29:D1:3079:U:H5'	1.90	0.51
29:D1:3274:A:N3	29:D1:3274:A:H2'	2.24	0.51
29:D1:3361:G:N7	29:D1:3362:A:C8	2.79	0.51
31:D3:70:G:H5'	31:D3:71:A:N7	2.23	0.51
31:D3:108:C:C2'	31:D3:109:A:O5'	2.59	0.51
34:DC:198:HIS:C	34:DC:200:GLU:N	2.69	0.51
35:DD:119:ARG:O	35:DD:121:ALA:N	2.44	0.51
36:DE:185:PHE:CB	36:DE:186:GLU:CB	2.88	0.51
40:DI:63:LYS:O	40:DI:65:VAL:N	2.44	0.51
45:DP:58:LEU:CB	45:DP:72:HIS:CB	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:188:SER:C	45:DP:190:VAL:H	2.18	0.51
1:A1:40:A:C8	1:A1:41:A:N7	2.79	0.51
1:A1:60:U:H5"	1:A1:454:U:H5'	1.93	0.51
1:A1:310:C:H2'	1:A1:311:U:C5'	2.39	0.51
1:A1:389:G:C4	1:A1:390:G:N7	2.78	0.51
1:A1:402:C:C2	1:A1:403:G:C4'	2.94	0.51
1:A1:611:U:H5	1:A1:612:U:C5	2.29	0.51
1:A1:646:C:H3'	1:A1:647:G:C5'	2.39	0.51
1:A1:901:G:H3'	1:A1:902:G:N7	2.25	0.51
1:A1:1209:C:H2'	1:A1:1210:C:C6	2.42	0.51
1:A1:1239:U:H2'	1:A1:1240:U:C5	2.46	0.51
1:A1:1348:A:H5"	15:AN:11:GLU:C	2.36	0.51
1:A1:1395:G:H2'	1:A1:1396:U:C5'	2.37	0.51
1:A1:1400:A:N1	1:A1:1401:A:C2	2.79	0.51
1:A1:1485:C:H42	1:A1:1592:A:C4'	2.23	0.51
1:A1:1569:A:N3	1:A1:1570:A:C8	2.79	0.51
1:A1:1662:G:C2	1:A1:1663:G:C5	2.98	0.51
3:AB:215:PHE:C	3:AB:217:ALA:H	2.19	0.51
4:AC:158:ILE:O	4:AC:160:SER:N	2.40	0.51
6:AE:96:VAL:O	6:AE:99:LEU:C	2.53	0.51
8:AG:82:PRO:O	8:AG:83:GLU:C	2.54	0.51
11:AJ:108:ALA:C	11:AJ:110:THR:H	2.19	0.51
16:AO:17:ALA:O	16:AO:20:THR:N	2.37	0.51
23:Ab:126:UNK:HA	23:Ab:133:UNK:O	2.10	0.51
29:B1:18:G:C6	29:B1:19:U:N3	2.79	0.51
29:B1:88:A:H2	29:B1:281:G:C2	2.28	0.51
29:B1:102:C:C4'	29:B1:103:G:OP1	2.58	0.51
29:B1:192:C:H2'	29:B1:193:C:H6	1.75	0.51
29:B1:198:A:N3	29:B1:218:G:O2'	2.44	0.51
29:B1:251:G:H4'	29:B1:252:U:OP1	2.10	0.51
29:B1:269:G:N1	29:B1:294:U:H5	2.06	0.51
29:B1:271:C:O2'	29:B1:272:G:C8	2.56	0.51
29:B1:282:G:H4'	29:B1:283:G:O5'	2.09	0.51
29:B1:292:U:H5"	29:B1:293:C:OP2	2.11	0.51
29:B1:331:G:C6	29:B1:332:C:N4	2.78	0.51
29:B1:371:G:H3'	29:B1:371:G:C8	2.46	0.51
29:B1:423:A:C2	29:B1:424:G:N3	2.79	0.51
29:B1:523:A:C2	29:B1:524:U:C6	2.98	0.51
29:B1:538:G:C2	29:B1:556:U:H5	2.29	0.51
29:B1:594:U:O4	29:B1:595:G:C2	2.63	0.51
29:B1:817:A:H2'	29:B1:920:A:C2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:886:C:H2'	29:B1:887:G:H5'	1.91	0.51
29:B1:928:C:H2'	29:B1:929:A:C8	2.46	0.51
29:B1:944:C:O2	29:B1:945:C:C6	2.64	0.51
29:B1:1087:G:C2	29:B1:1088:U:C5	2.99	0.51
29:B1:1167:U:C2'	29:B1:1168:U:O5'	2.59	0.51
29:B1:1284:C:H5	29:B1:1285:G:H21	1.54	0.51
29:B1:1284:C:N4	29:B1:1285:G:H21	2.09	0.51
29:B1:1350:A:OP2	29:B1:1350:A:O3'	2.29	0.51
29:B1:1463:U:C2	29:B1:1464:G:C8	2.99	0.51
29:B1:1466:G:C6	29:B1:1511:U:C6	2.99	0.51
29:B1:1638:A:H2	29:B1:1736:G:N3	2.08	0.51
29:B1:1729:A:N6	62:Bg:42:CYS:CB	2.73	0.51
29:B1:1922:A:N7	29:B1:1923:C:C5	2.78	0.51
29:B1:2299:A:H2'	29:B1:2300:G:O5'	2.11	0.51
29:B1:2407:C:C1'	29:B1:2818:U:H3	2.22	0.51
29:B1:2425:G:H2'	29:B1:2426:U:C6	2.46	0.51
29:B1:2520:A:C2	29:B1:2521:U:O2	2.64	0.51
29:B1:2583:C:C2'	29:B1:2584:G:C8	2.85	0.51
29:B1:2610:G:H2'	29:B1:2611:U:H6	1.76	0.51
29:B1:2640:A:H5"	29:B1:2641:U:OP2	2.11	0.51
29:B1:2662:G:H3'	29:B1:2663:G:H8	1.76	0.51
29:B1:2994:A:H2'	29:B1:2995:A:O4'	2.10	0.51
29:B1:3012:A:C4	29:B1:3013:U:C5	2.98	0.51
29:B1:3047:U:C2'	29:B1:3048:A:H5"	2.38	0.51
29:B1:3110:C:H2'	29:B1:3111:U:O4'	2.11	0.51
29:B1:3135:U:C6	29:B1:3136:G:C8	2.98	0.51
29:B1:3210:A:H2'	29:B1:3211:C:C6	2.45	0.51
29:B1:3357:U:H5'	29:B1:3358:U:OP2	2.10	0.51
29:B1:3379:C:O2'	29:B1:3380:U:H5'	2.11	0.51
30:B2:13:A:C5'	30:B2:112:G:H1'	2.30	0.51
34:BC:216:ASP:HA	34:BC:277:SER:O	2.10	0.51
35:BD:115:HIS:C	35:BD:117:GLU:N	2.68	0.51
36:BE:102:GLY:O	36:BE:105:ILE:O	2.28	0.51
37:BF:134:ARG:O	37:BF:138:GLN:N	2.44	0.51
42:BK:83:GLY:O	42:BK:84:LEU:C	2.53	0.51
46:BQ:11:PRO:O	46:BQ:12:ALA:CB	2.59	0.51
47:BR:18:ALA:O	47:BR:19:PRO:O	2.29	0.51
49:BT:58:GLN:O	49:BT:60:LYS:N	2.44	0.51
56:Ba:9:THR:CA	56:Ba:76:SER:HA	2.27	0.51
63:Bh:7:UNK:O	63:Bh:11:UNK:N	2.44	0.51
71:Br:12:UNK:C	71:Br:14:UNK:N	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:23:G:C5	1:C1:24:U:C5	2.99	0.51
1:C1:339:C:C2	1:C1:340:U:C6	2.99	0.51
1:C1:402:C:C2	1:C1:403:G:O4'	2.64	0.51
1:C1:553:G:N2	1:C1:571:G:N2	2.59	0.51
1:C1:615:A:C6	1:C1:1107:G:C6	2.99	0.51
1:C1:778:G:N2	1:C1:783:G:C6	2.78	0.51
1:C1:791:A:C4	1:C1:792:U:C5	2.98	0.51
1:C1:886:U:H5"	1:C1:887:A:OP2	2.11	0.51
1:C1:947:U:H2'	1:C1:948:G:C8	2.46	0.51
1:C1:1156:C:O2'	1:C1:1157:A:H5'	2.11	0.51
1:C1:1233:G:H2'	1:C1:1234:A:O4'	2.10	0.51
1:C1:1416:G:C4	1:C1:1417:A:C8	2.99	0.51
1:C1:1477:G:C2'	1:C1:1478:G:H5'	2.40	0.51
1:C1:1632:C:O2'	1:C1:1633:A:H5"	2.11	0.51
1:C1:1663:G:C4	1:C1:1664:C:C6	2.99	0.51
3:CB:155:ALA:O	3:CB:168:ARG:HA	2.11	0.51
5:CD:182:ALA:O	5:CD:184:PHE:N	2.43	0.51
10:CI:116:LEU:O	10:CI:118:GLU:N	2.42	0.51
24:Cc:4:UNK:HA	24:Cc:99:UNK:C	2.40	0.51
29:D1:3:U:H2'	29:D1:4:U:H6	1.75	0.51
29:D1:203:G:H2'	29:D1:204:A:O4'	2.09	0.51
29:D1:304:G:H3'	29:D1:304:G:P	2.50	0.51
29:D1:397:A:C6	29:D1:400:G:N1	2.78	0.51
29:D1:422:A:C1'	29:D1:423:A:O5'	2.59	0.51
29:D1:424:G:H2'	29:D1:425:G:OP1	2.11	0.51
29:D1:560:G:C2	29:D1:561:C:C4	2.99	0.51
29:D1:573:C:H2'	29:D1:574:U:H5	1.75	0.51
29:D1:595:G:N1	29:D1:609:G:O4'	2.43	0.51
29:D1:717:C:H5	29:D1:721:G:P	2.32	0.51
29:D1:736:A:C8	29:D1:737:G:C8	2.99	0.51
29:D1:943:U:H2'	54:DY:9:ARG:O	2.11	0.51
29:D1:1024:G:C5	29:D1:1025:A:N7	2.78	0.51
29:D1:1076:C:N3	29:D1:1077:U:O4	2.43	0.51
29:D1:1205:A:C4	29:D1:1206:G:C8	2.98	0.51
29:D1:1242:G:P	29:D1:1242:G:H8	2.34	0.51
29:D1:1350:A:OP2	29:D1:1350:A:O3'	2.28	0.51
29:D1:1390:A:C8	29:D1:1418:A:N7	2.79	0.51
29:D1:1420:C:H2'	29:D1:1421:G:H8	1.76	0.51
29:D1:1459:C:O5'	29:D1:1459:C:H6	1.94	0.51
29:D1:1599:G:N1	29:D1:1600:U:O2	2.44	0.51
29:D1:1623:G:N3	29:D1:1624:G:H1'	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1662:G:C6	29:D1:1663:C:C4	2.99	0.51
29:D1:1686:U:H1'	29:D1:1688:U:OP1	2.10	0.51
29:D1:1766:G:C2	29:D1:1767:C:C6	2.99	0.51
29:D1:1774:C:H2'	29:D1:1774:C:O2	2.11	0.51
29:D1:1818:U:H2'	29:D1:1819:U:N1	2.26	0.51
29:D1:1844:C:N3	29:D1:1845:G:N7	2.59	0.51
29:D1:2111:G:H21	51:DV:49:ILE:HA	1.72	0.51
29:D1:2150:G:H2'	29:D1:2151:C:C5'	2.38	0.51
29:D1:2181:C:C2'	29:D1:2182:A:O5'	2.58	0.51
29:D1:2196:C:O2'	29:D1:2271:A:O4'	2.28	0.51
29:D1:2253:G:C5	29:D1:2254:U:C2	2.99	0.51
29:D1:2255:A:C4'	29:D1:2256:A:OP1	2.58	0.51
29:D1:2328:U:H2'	29:D1:2329:C:C5'	2.28	0.51
29:D1:2759:U:H5"	29:D1:2760:C:OP1	2.11	0.51
29:D1:2876:C:C1'	29:D1:2952:G:N2	2.74	0.51
29:D1:2904:U:C3'	29:D1:2904:U:C2	2.94	0.51
29:D1:3126:C:C2	29:D1:3127:A:C8	2.99	0.51
29:D1:3180:A:C8	45:DP:114:LYS:HA	2.45	0.51
29:D1:3187:A:C2	29:D1:3188:G:N9	2.79	0.51
29:D1:3294:A:H2'	29:D1:3295:A:C5'	2.40	0.51
30:D2:95:A:C2'	30:D2:96:U:O5'	2.59	0.51
31:D3:48:A:C5	31:D3:51:G:C8	2.99	0.51
31:D3:97:A:O2'	31:D3:98:U:H5'	2.11	0.51
35:DD:115:HIS:C	35:DD:117:GLU:N	2.66	0.51
36:DE:167:SER:C	36:DE:169:GLY:N	2.69	0.51
37:DF:162:SER:O	37:DF:163:PHE:C	2.54	0.51
39:DH:243:GLN:O	39:DH:244:ALA:C	2.52	0.51
72:DL:97:ASN:O	72:DL:98:VAL:C	2.53	0.51
43:DN:34:ALA:O	43:DN:46:ILE:C	2.54	0.51
45:DP:54:TYR:C	45:DP:56:ASP:N	2.69	0.51
48:DS:127:SER:C	48:DS:129:GLY:H	2.18	0.51
48:DS:151:ARG:O	48:DS:154:ALA:HB3	2.11	0.51
51:DV:34:SER:O	51:DV:35:LYS:C	2.54	0.51
58:Dc:37:SER:O	58:Dc:38:ARG:CB	2.58	0.51
1:A1:41:A:H2'	1:A1:438:A:H62	1.75	0.51
1:A1:103:A:H4'	1:A1:104:A:O5'	2.11	0.51
1:A1:123:G:C5	1:A1:124:A:C8	2.99	0.51
1:A1:130:C:C2	1:A1:177:U:OP1	2.64	0.51
1:A1:178:U:O2	1:A1:178:U:H2'	2.11	0.51
1:A1:339:C:H2'	1:A1:340:U:C6	2.45	0.51
1:A1:353:A:C5	1:A1:354:C:C6	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:477:A:H2	1:A1:512:A:N1	2.08	0.51
1:A1:492:A:N3	1:A1:494:U:C6	2.79	0.51
1:A1:749:U:OP1	16:AO:82:LYS:CB	2.58	0.51
1:A1:866:G:N3	1:A1:867:G:C8	2.79	0.51
1:A1:883:C:O2	1:A1:883:C:C2'	2.59	0.51
1:A1:960:U:H2'	1:A1:961:U:C6	2.46	0.51
1:A1:1111:G:C2'	1:A1:1112:G:H5'	2.41	0.51
1:A1:1172:G:C5	1:A1:1173:C:C4	2.99	0.51
1:A1:1365:C:C4	1:A1:1366:U:C6	2.98	0.51
1:A1:1373:C:H2'	1:A1:1373:C:O2	2.10	0.51
1:A1:1410:A:N7	1:A1:1411:A:C5	2.79	0.51
1:A1:1453:G:H2'	1:A1:1454:G:C8	2.46	0.51
1:A1:1584:G:N3	1:A1:1584:G:H2'	2.26	0.51
1:A1:1650:U:C3'	1:A1:1651:A:C8	2.84	0.51
1:A1:1721:A:O5'	1:A1:1721:A:C8	2.64	0.51
2:AA:211:GLU:O	2:AA:215:ALA:HB2	2.11	0.51
6:AE:122:VAL:O	6:AE:123:HIS:C	2.53	0.51
11:AJ:131:GLY:HA3	11:AJ:138:PHE:H	1.76	0.51
16:AO:78:ARG:O	16:AO:79:PHE:CB	2.58	0.51
17:AP:86:PHE:O	17:AP:88:PRO:N	2.44	0.51
17:AP:114:LYS:CB	17:AP:115:GLY:HA2	2.39	0.51
20:AS:19:ARG:O	20:AS:20:GLN:O	2.28	0.51
21:AT:33:LEU:O	21:AT:44:SER:HA	2.11	0.51
21:AT:194:GLY:O	21:AT:195:HIS:O	2.29	0.51
24:Ac:88:UNK:O	24:Ac:90:UNK:N	2.44	0.51
29:B1:378:A:C3'	29:B1:378:A:C4	2.94	0.51
29:B1:525:C:H5"	43:BN:71:ALA:HB2	1.91	0.51
29:B1:604:G:H2'	29:B1:605:U:C6	2.45	0.51
29:B1:825:U:H2'	29:B1:826:G:H5"	1.92	0.51
29:B1:887:G:C6	29:B1:888:A:C5	2.99	0.51
29:B1:932:U:H4'	29:B1:933:A:O5'	2.10	0.51
29:B1:954:U:OP1	29:B1:954:U:C4'	2.58	0.51
29:B1:957:C:C2	29:B1:958:C:C6	2.98	0.51
29:B1:1001:G:H8	29:B1:1041:U:O3'	1.94	0.51
29:B1:1357:G:C3'	29:B1:1358:C:H6	2.24	0.51
29:B1:1390:A:O4'	29:B1:1418:A:N6	2.44	0.51
29:B1:1429:G:H8	29:B1:1429:G:O5'	1.91	0.51
29:B1:1454:A:C5'	29:B1:1878:G:C6	2.90	0.51
29:B1:1491:A:N6	60:Be:3:ALA:HB2	2.26	0.51
29:B1:1495:U:O2'	29:B1:1514:G:C4'	2.59	0.51
29:B1:1575:A:H2'	29:B1:1576:G:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1684:U:H3'	29:B1:1684:U:C6	2.45	0.51
29:B1:1895:A:O2'	29:B1:3053:G:H4'	2.11	0.51
29:B1:1902:G:OP2	29:B1:2919:A:P	2.68	0.51
29:B1:2417:U:O4	29:B1:2804:A:N1	2.44	0.51
29:B1:2435:G:O2'	29:B1:2436:U:P	2.69	0.51
29:B1:2639:G:C6	29:B1:2640:A:C5	2.99	0.51
29:B1:2722:U:H2'	29:B1:2723:U:H6	1.75	0.51
29:B1:2771:U:C3'	29:B1:2772:C:C5'	2.85	0.51
29:B1:2861:U:H2'	29:B1:2862:U:C6	2.41	0.51
29:B1:2881:C:C2'	29:B1:2882:U:O5'	2.59	0.51
29:B1:2901:G:O5'	29:B1:2901:G:H8	1.94	0.51
29:B1:2963:C:H2'	29:B1:2964:G:C5'	2.40	0.51
29:B1:3082:C:C2'	29:B1:3083:G:O5'	2.59	0.51
29:B1:3088:G:H5"	29:B1:3089:C:OP2	2.10	0.51
29:B1:3157:U:H4'	29:B1:3158:G:O4'	2.11	0.51
29:B1:3216:G:O2'	29:B1:3217:C:OP2	2.18	0.51
29:B1:3221:C:C4	29:B1:3222:U:H5	2.30	0.51
29:B1:3328:G:O2'	29:B1:3329:U:O4'	2.29	0.51
29:B1:3377:G:N9	74:B1:3450:OHX:N2	2.58	0.51
30:B2:102:A:H2'	30:B2:103:A:H8	1.76	0.51
31:B3:3:A:H3'	31:B3:3:A:H8	1.75	0.51
31:B3:35:C:H2'	31:B3:36:G:H8	1.77	0.51
31:B3:65:A:C6	31:B3:66:A:C5	3.00	0.51
31:B3:131:A:C2	31:B3:132:G:N7	2.79	0.51
31:B3:148:G:O2'	31:B3:149:A:P	2.68	0.51
36:BE:44:TYR:O	49:BT:69:LYS:CB	2.58	0.51
36:BE:225:GLY:N	36:BE:233:ALA:HB3	2.25	0.51
36:BE:251:PRO:CB	36:BE:254:LYS:HA	2.41	0.51
36:BE:282:ARG:O	36:BE:283:ALA:HB3	2.11	0.51
38:BG:223:PHE:O	38:BG:224:ILE:O	2.28	0.51
40:BI:62:ARG:O	40:BI:63:LYS:C	2.52	0.51
42:BK:36:VAL:O	42:BK:37:LEU:C	2.54	0.51
57:Bb:66:LEU:CA	57:Bb:67:SER:CB	2.89	0.51
62:Bg:54:ILE:O	62:Bg:55:TRP:CB	2.59	0.51
62:Bg:59:CYS:C	74:Bg:101:OHX:N3	2.69	0.51
1:C1:15:U:H1'	1:C1:619:A:C2	2.45	0.51
1:C1:60:U:H2'	1:C1:61:A:H5'	1.91	0.51
1:C1:269:G:N1	1:C1:270:C:C4	2.79	0.51
1:C1:438:A:O5'	1:C1:438:A:C8	2.64	0.51
1:C1:483:A:C8	1:C1:483:A:OP2	2.64	0.51
1:C1:620:A:N7	1:C1:621:A:C6	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:649:U:C4	1:C1:685:A:N1	2.79	0.51
1:C1:718:U:H3'	1:C1:720:G:C2	2.46	0.51
1:C1:842:C:O2'	1:C1:843:U:H5'	2.11	0.51
1:C1:1138:A:N6	1:C1:1139:A:N6	2.59	0.51
1:C1:1198:G:OP2	1:C1:1199:G:N7	2.44	0.51
1:C1:1242:A:H5"	1:C1:1243:G:OP2	2.11	0.51
1:C1:1382:A:C2	1:C1:1383:G:C5	2.99	0.51
1:C1:1594:G:C6	1:C1:1595:U:C2	2.98	0.51
2:CA:203:PHE:O	2:CA:205:ARG:N	2.44	0.51
4:CC:144:ALA:O	4:CC:145:ALA:CB	2.59	0.51
10:CI:115:TYR:O	10:CI:116:LEU:C	2.54	0.51
29:D1:49:A:O2'	29:D1:50:U:OP1	2.25	0.51
29:D1:171:G:N3	29:D1:172:G:C8	2.79	0.51
29:D1:407:A:O5'	29:D1:407:A:H8	1.92	0.51
29:D1:583:G:C6	29:D1:584:G:C5	2.99	0.51
29:D1:618:C:O2	29:D1:619:A:C8	2.63	0.51
29:D1:666:A:O2'	29:D1:667:C:OP1	2.24	0.51
29:D1:715:A:O2'	29:D1:716:A:H5'	2.11	0.51
29:D1:769:G:H1'	29:D1:770:G:O5'	2.10	0.51
29:D1:1001:G:C8	29:D1:1041:U:H5'	2.46	0.51
29:D1:1072:G:C4	29:D1:1073:U:C5	2.99	0.51
29:D1:1079:A:N9	36:DE:141:PRO:CB	2.74	0.51
29:D1:1084:A:H3'	29:D1:1085:A:H8	1.76	0.51
29:D1:1220:U:C6	29:D1:1220:U:C3'	2.92	0.51
29:D1:1480:G:N1	29:D1:1871:U:OP2	2.44	0.51
29:D1:1525:G:C8	29:D1:1829:G:C5	2.99	0.51
29:D1:1714:A:C6	29:D1:1728:G:N1	2.79	0.51
29:D1:1761:C:O2'	29:D1:1762:C:H5"	2.11	0.51
29:D1:1782:U:OP2	29:D1:1782:U:H3'	2.11	0.51
29:D1:1799:A:C2	29:D1:1800:A:C4	2.99	0.51
29:D1:1863:G:N2	29:D1:1865:A:H2'	2.26	0.51
29:D1:1868:G:H8	29:D1:1868:G:O5'	1.94	0.51
29:D1:1948:G:C2	29:D1:1949:G:C8	2.99	0.51
29:D1:2130:G:C6	29:D1:2323:G:C6	2.98	0.51
29:D1:2294:U:H3'	29:D1:2295:A:H5"	1.93	0.51
29:D1:2501:U:H1'	29:D1:2502:A:O5'	2.11	0.51
29:D1:2692:A:C6	29:D1:2693:C:C4	2.99	0.51
29:D1:2717:U:C4	29:D1:2740:A:C6	2.99	0.51
29:D1:2897:A:C2	29:D1:2905:U:O2	2.63	0.51
29:D1:2994:A:H2'	29:D1:2995:A:O4'	2.11	0.51
29:D1:3060:C:H2'	29:D1:3061:G:O5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3198:U:O2	29:D1:3199:G:C5	2.63	0.51
29:D1:3361:G:H2'	29:D1:3362:A:C5'	2.38	0.51
30:D2:13:A:H5'	30:D2:112:G:C1'	2.25	0.51
30:D2:111:U:O3'	30:D2:113:C:P	2.69	0.51
33:DB:120:PRO:O	33:DB:121:GLY:C	2.54	0.51
35:DD:20:LEU:O	35:DD:21:PRO:CB	2.58	0.51
35:DD:241:GLY:O	35:DD:242:ALA:C	2.53	0.51
38:DG:224:ILE:O	38:DG:226:GLY:N	2.44	0.51
40:DI:72:LYS:O	40:DI:73:SER:O	2.29	0.51
41:DJ:33:ILE:O	41:DJ:34:TYR:CB	2.59	0.51
42:DK:48:SER:CB	42:DK:66:ALA:HB3	2.41	0.51
1:A1:29:U:C2	1:A1:597:G:O6	2.63	0.50
1:A1:38:C:H2'	1:A1:39:A:H5"	1.92	0.50
1:A1:528:U:H4'	1:A1:529:A:C5'	2.41	0.50
1:A1:601:A:C5	1:A1:602:U:C4	3.00	0.50
1:A1:705:U:O4	1:A1:734:A:C2	2.64	0.50
1:A1:757:A:C4	1:A1:758:U:C5	2.98	0.50
1:A1:868:G:H2'	1:A1:869:A:H5'	1.91	0.50
1:A1:963:A:O2'	1:A1:964:U:O5'	2.29	0.50
1:A1:1026:A:C2	1:A1:1792:G:N3	2.79	0.50
1:A1:1203:A:C2	1:A1:1555:A:C2	2.99	0.50
1:A1:1281:G:C5	1:A1:1282:U:C5	2.99	0.50
1:A1:1332:C:O5'	1:A1:1332:C:H6	1.93	0.50
1:A1:1392:U:C6	1:A1:1392:U:C5'	2.94	0.50
1:A1:1542:G:OP2	1:A1:1542:G:C8	2.51	0.50
1:A1:1591:C:O2'	1:A1:1592:A:O5'	2.25	0.50
1:A1:1671:A:C4	1:A1:1731:A:C2	2.99	0.50
1:A1:1689:A:N6	1:A1:1716:C:C2	2.79	0.50
1:A1:1693:A:N6	1:A1:1708:U:H3	2.08	0.50
2:AA:65:ALA:C	2:AA:67:ILE:N	2.69	0.50
2:AA:181:VAL:O	2:AA:182:LEU:C	2.52	0.50
14:AM:112:GLY:O	14:AM:113:ILE:CB	2.59	0.50
15:AN:20:ILE:C	15:AN:92:ASP:HA	2.36	0.50
15:AN:45:ALA:HB1	15:AN:49:ASN:CB	2.41	0.50
21:AT:37:SER:C	21:AT:39:ASP:H	2.18	0.50
29:B1:325:A:H3'	29:B1:327:A:OP2	2.11	0.50
29:B1:405:U:C4	29:B1:406:G:C4	2.99	0.50
29:B1:501:A:C2	29:B1:613:G:N1	2.78	0.50
29:B1:510:G:H2'	29:B1:511:G:O5'	2.10	0.50
29:B1:610:G:C5'	29:B1:611:A:OP2	2.59	0.50
29:B1:707:U:O2'	29:B1:752:C:O2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:729:C:C4	29:B1:730:C:C4	2.99	0.50
29:B1:733:G:H21	29:B1:734:C:H2'	1.74	0.50
29:B1:856:G:C6	29:B1:857:G:N2	2.79	0.50
29:B1:861:C:OP2	29:B1:862:U:OP2	2.29	0.50
29:B1:863:C:C2'	29:B1:864:G:H5'	2.41	0.50
29:B1:900:G:H2'	29:B1:901:G:C8	2.46	0.50
29:B1:941:G:H2'	29:B1:942:U:O4'	2.12	0.50
29:B1:945:C:C2	29:B1:946:U:C6	2.98	0.50
29:B1:963:G:C8	29:B1:963:G:C4'	2.94	0.50
29:B1:1110:U:C2	29:B1:1111:U:C5	2.99	0.50
29:B1:1183:C:C3'	29:B1:1184:A:H5"	2.41	0.50
29:B1:1403:C:C5'	29:B1:1404:G:OP2	2.59	0.50
29:B1:1449:A:H4'	29:B1:2983:C:O2	2.11	0.50
29:B1:1511:U:H3'	29:B1:1512:U:H6	1.76	0.50
29:B1:1514:G:N7	29:B1:1841:A:C4	2.79	0.50
29:B1:1560:G:C6	29:B1:1579:C:C2	3.00	0.50
29:B1:1899:G:O2'	29:B1:2334:U:O4	2.24	0.50
29:B1:1909:A:N6	29:B1:1910:A:C2	2.79	0.50
29:B1:2114:C:H5"	29:B1:2116:G:N7	2.26	0.50
29:B1:2147:A:H8	29:B1:2147:A:O5'	1.94	0.50
29:B1:2654:C:H5'	29:B1:2657:A:C6	2.46	0.50
29:B1:2722:U:H2'	29:B1:2723:U:C6	2.47	0.50
29:B1:2800:G:H5"	29:B1:2801:A:OP1	2.11	0.50
29:B1:3128:G:H5"	29:B1:3129:A:OP2	2.10	0.50
29:B1:3149:G:C2'	29:B1:3150:A:H5'	2.40	0.50
29:B1:3170:A:H2'	29:B1:3171:U:O5'	2.10	0.50
29:B1:3202:G:N3	29:B1:3203:U:C2	2.79	0.50
29:B1:3322:A:C6	29:B1:3323:A:N6	2.79	0.50
30:B2:9:C:H3'	30:B2:10:C:C4'	2.41	0.50
30:B2:35:C:H5'	30:B2:35:C:H6	1.76	0.50
30:B2:65:G:C2'	30:B2:66:A:O5'	2.59	0.50
30:B2:65:G:H2'	30:B2:65:G:N3	2.26	0.50
31:B3:4:C:O2'	31:B3:5:U:H5'	2.11	0.50
31:B3:28:C:O2	31:B3:28:C:C2'	2.59	0.50
31:B3:54:A:H2'	31:B3:55:U:O5'	2.11	0.50
32:BA:54:LYS:CA	32:BA:55:LEU:CB	2.89	0.50
35:BD:180:LYS:O	35:BD:182:LEU:N	2.44	0.50
36:BE:288:ALA:HB1	36:BE:292:ALA:C	2.35	0.50
37:BF:92:SER:O	37:BF:93:VAL:C	2.53	0.50
40:BI:155:SER:O	40:BI:158:ALA:HB3	2.11	0.50
43:BN:33:ALA:CB	43:BN:48:GLY:N	2.67	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:71:LEU:O	47:BR:72:LYS:C	2.54	0.50
54:BY:148:ILE:O	54:BY:149:ALA:C	2.53	0.50
59:Bd:43:LYS:C	59:Bd:45:ARG:N	2.70	0.50
1:C1:70:C:H3'	1:C1:71:A:C8	2.46	0.50
1:C1:325:G:O2'	1:C1:326:G:H5'	2.11	0.50
1:C1:374:U:C4	1:C1:375:U:C4	2.99	0.50
1:C1:394:C:C3'	1:C1:395:U:H5'	2.41	0.50
1:C1:468:A:H2'	74:C1:1991:OHX:N6	2.26	0.50
1:C1:528:U:C5	74:C1:1939:OHX:N2	2.79	0.50
1:C1:719:U:H1'	1:C1:720:G:P	2.51	0.50
1:C1:736:C:H2'	1:C1:737:A:C8	2.41	0.50
1:C1:739:G:OP2	1:C1:739:G:H8	1.94	0.50
1:C1:776:G:C6	1:C1:785:U:N3	2.78	0.50
1:C1:866:G:N3	1:C1:867:G:C8	2.79	0.50
1:C1:874:C:O5'	1:C1:874:C:H6	1.94	0.50
1:C1:914:G:H3'	74:C1:1927:OHX:N6	2.26	0.50
1:C1:994:G:H2'	1:C1:995:A:H8	1.76	0.50
1:C1:1075:C:N3	1:C1:1076:A:N1	2.60	0.50
1:C1:1227:A:H8	1:C1:1229:G:OP2	1.94	0.50
1:C1:1484:G:H21	1:C1:1606:C:C1'	2.13	0.50
1:C1:1508:U:O2	1:C1:1508:U:H2'	2.11	0.50
1:C1:1632:C:C2'	1:C1:1633:A:H5"	2.40	0.50
1:C1:1693:A:N6	1:C1:1708:U:H3	2.09	0.50
74:C1:1924:OHX:N4	74:C1:1964:OHX:N2	2.59	0.50
2:CA:50:VAL:O	2:CA:53:THR:CB	2.59	0.50
2:CA:75:ALA:HB1	2:CA:122:ILE:O	2.11	0.50
2:CA:172:LEU:O	2:CA:176:LEU:CB	2.58	0.50
6:CE:81:VAL:O	6:CE:82:ARG:O	2.29	0.50
7:CF:125:VAL:HA	7:CF:138:ASN:O	2.12	0.50
8:CG:91:LEU:O	8:CG:95:ALA:CB	2.59	0.50
8:CG:119:GLU:O	8:CG:120:SER:C	2.54	0.50
9:CH:118:VAL:O	9:CH:119:THR:C	2.54	0.50
14:CM:13:ASP:C	14:CM:15:ILE:N	2.69	0.50
15:CN:97:VAL:C	15:CN:99:ILE:N	2.69	0.50
20:CS:42:CYS:O	20:CS:45:GLU:N	2.42	0.50
23:Cb:73:UNK:O	23:Cb:77:UNK:N	2.44	0.50
29:D1:82:C:C2'	29:D1:83:U:O5'	2.56	0.50
29:D1:173:G:O6	29:D1:245:U:O2	2.29	0.50
29:D1:191:U:O2	29:D1:192:C:C6	2.64	0.50
29:D1:268:A:N9	29:D1:270:U:O2	2.44	0.50
29:D1:347:G:N1	29:D1:348:A:C6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:512:U:C1'	29:D1:579:G:N2	2.74	0.50
29:D1:572:A:C5	29:D1:573:C:C6	2.99	0.50
29:D1:771:A:N1	29:D1:772:U:C4	2.79	0.50
29:D1:1063:G:O2'	29:D1:1064:A:OP2	2.28	0.50
29:D1:1144:U:C6	29:D1:1144:U:C5'	2.94	0.50
29:D1:1156:C:H2'	29:D1:1157:G:H5"	1.93	0.50
29:D1:1217:A:C5'	29:D1:1218:U:OP2	2.60	0.50
29:D1:1289:G:C2	29:D1:1290:A:C8	2.98	0.50
29:D1:1340:G:C2	29:D1:1341:U:C4	2.99	0.50
29:D1:1546:A:N6	29:D1:1547:G:N1	2.59	0.50
29:D1:1884:A:C5	29:D1:1885:U:C4	2.99	0.50
29:D1:2255:A:N1	29:D1:2258:U:H5"	2.27	0.50
29:D1:2270:A:O2'	29:D1:2271:A:H5'	2.10	0.50
29:D1:2344:U:H2'	29:D1:2344:U:O2	2.10	0.50
29:D1:2520:A:C2	29:D1:2521:U:O2	2.64	0.50
29:D1:2565:U:C2	29:D1:2566:C:C5	2.98	0.50
29:D1:2628:A:N9	29:D1:2798:C:N4	2.59	0.50
29:D1:2761:G:N1	29:D1:2795:U:H3'	2.23	0.50
29:D1:2762:A:H3'	29:D1:2763:U:C5	2.46	0.50
29:D1:2771:U:C3'	29:D1:2772:C:C5'	2.85	0.50
29:D1:2796:G:O6	61:Df:63:LYS:HA	2.11	0.50
29:D1:3020:U:C2'	29:D1:3021:A:OP1	2.58	0.50
29:D1:3102:G:C5'	29:D1:3102:G:C8	2.88	0.50
29:D1:3118:C:C2	29:D1:3119:U:C6	2.99	0.50
29:D1:3197:G:H3'	29:D1:3197:G:N3	2.26	0.50
29:D1:3260:G:C6	29:D1:3261:C:O4'	2.64	0.50
29:D1:3323:A:C2	29:D1:3324:C:C6	2.99	0.50
29:D1:3357:U:H5'	29:D1:3358:U:OP2	2.10	0.50
29:D1:3377:G:O4'	74:D1:3452:OHX:N2	2.44	0.50
29:D1:3393:U:H2'	29:D1:3394:U:O4'	2.11	0.50
34:DC:7:GLU:O	34:DC:8:ALA:HB3	2.11	0.50
34:DC:182:GLN:O	34:DC:183:LEU:C	2.54	0.50
38:DG:68:ASP:O	38:DG:71:ALA:CB	2.57	0.50
38:DG:222:HIS:CB	38:DG:228:SER:N	2.74	0.50
44:DO:148:TYR:C	44:DO:150:TRP:N	2.69	0.50
58:Dc:16:GLN:C	58:Dc:18:ALA:H	2.17	0.50
58:Dc:39:PRO:O	58:Dc:40:SER:CB	2.60	0.50
61:Df:76:LYS:C	61:Df:78:LYS:H	2.19	0.50
1:A1:28:A:C2	1:A1:29:U:C2	2.99	0.50
1:A1:200:A:C2	1:A1:201:G:C4	3.00	0.50
1:A1:365:G:C4	1:A1:377:G:N1	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:366:A:O5'	1:A1:366:A:H8	1.95	0.50
1:A1:428:A:C2	1:A1:440:U:O2	2.64	0.50
1:A1:445:A:H61	1:A1:461:G:N2	2.09	0.50
1:A1:516:G:N3	1:A1:516:G:H2'	2.25	0.50
1:A1:549:G:C2	1:A1:550:A:C8	2.99	0.50
1:A1:982:U:O4	1:A1:983:A:N6	2.44	0.50
1:A1:986:G:O2'	1:A1:987:G:C8	2.63	0.50
1:A1:1025:A:O2'	1:A1:1773:C:O2'	2.13	0.50
1:A1:1166:A:C6	1:A1:1167:G:C8	3.00	0.50
1:A1:1179:G:N2	1:A1:1461:C:C4	2.80	0.50
1:A1:1225:U:C5	1:A1:1226:A:C5	3.00	0.50
1:A1:1512:G:C6	1:A1:1513:G:C6	2.99	0.50
1:A1:1521:G:O6	74:A1:1943:OHX:N2	2.44	0.50
1:A1:1719:A:C2'	1:A1:1720:G:C5	2.92	0.50
3:AB:118:ALA:HB2	3:AB:124:ALA:CB	2.40	0.50
14:AM:28:LEU:O	14:AM:30:VAL:N	2.45	0.50
17:AP:109:ARG:H	17:AP:110:LYS:CA	2.08	0.50
28:Ah:21:UNK:CB	28:Ah:25:UNK:HA	2.40	0.50
29:B1:114:A:N3	29:B1:267:G:C2	2.79	0.50
29:B1:199:A:C5	29:B1:219:A:N6	2.78	0.50
29:B1:220:G:C6	29:B1:1389:G:N2	2.80	0.50
29:B1:246:U:H3'	29:B1:247:C:C5'	2.41	0.50
29:B1:255:A:H2'	29:B1:256:G:H8	1.73	0.50
29:B1:361:A:C2'	29:B1:362:U:O4'	2.59	0.50
29:B1:393:U:O2	29:B1:394:G:O4'	2.30	0.50
29:B1:535:G:N1	29:B1:559:A:H5'	2.26	0.50
29:B1:608:A:H3'	29:B1:608:A:H8	1.71	0.50
29:B1:715:A:C3'	54:BY:115:LYS:CB	2.89	0.50
29:B1:929:A:C6	29:B1:930:U:C4	2.99	0.50
29:B1:1077:U:O2'	29:B1:1078:U:C6	2.64	0.50
29:B1:1150:A:OP1	29:B1:1151:U:O4	2.29	0.50
29:B1:1164:G:C5	29:B1:1165:A:N7	2.79	0.50
29:B1:1214:U:C2'	29:B1:1215:U:H5'	2.41	0.50
29:B1:1246:G:C5	29:B1:1247:U:H1'	2.45	0.50
29:B1:1406:A:C2	29:B1:1407:A:C4	2.99	0.50
29:B1:1420:C:OP1	31:B3:20:U:H5"	2.11	0.50
29:B1:1445:U:C4	29:B1:1446:A:N7	2.79	0.50
29:B1:1455:U:OP1	29:B1:3078:U:N3	2.44	0.50
29:B1:1503:A:C8	29:B1:1503:A:C5'	2.88	0.50
29:B1:1517:G:C6	29:B1:1518:U:C4	2.99	0.50
29:B1:1685:C:H5	29:B1:3069:G:H22	1.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1731:A:C5	29:B1:1732:U:C4	2.99	0.50
29:B1:1843:C:C2	29:B1:1844:C:C5	3.00	0.50
29:B1:1875:G:H2'	29:B1:1876:U:C5'	2.24	0.50
29:B1:2105:G:H8	29:B1:2105:G:C5'	2.24	0.50
29:B1:2131:A:H3'	29:B1:2131:A:C8	2.46	0.50
29:B1:2247:G:H2'	29:B1:2247:G:N3	2.27	0.50
29:B1:2337:C:H2'	29:B1:2338:C:H6	1.77	0.50
29:B1:2431:C:C2	29:B1:2432:A:C8	2.99	0.50
29:B1:2612:U:H2'	29:B1:2613:U:O2	2.11	0.50
29:B1:2650:U:H1'	29:B1:2758:A:C2	2.46	0.50
29:B1:2837:A:H2'	29:B1:2845:A:C2	2.46	0.50
29:B1:2881:C:H2'	29:B1:2882:U:H6	1.75	0.50
29:B1:2948:C:C2	29:B1:2949:U:C5	2.99	0.50
29:B1:3210:A:C8	29:B1:3211:C:C5	2.96	0.50
29:B1:3230:G:C6	29:B1:3231:U:C4	2.98	0.50
29:B1:3277:U:C6	29:B1:3277:U:C3'	2.95	0.50
29:B1:3279:A:N7	29:B1:3280:U:O4	2.44	0.50
30:B2:117:A:C2'	30:B2:118:A:H5'	2.41	0.50
31:B3:75:G:P	31:B3:90:U:H5'	2.51	0.50
31:B3:113:U:O2'	31:B3:114:G:P	2.68	0.50
31:B3:142:C:N3	31:B3:143:U:C4	2.80	0.50
35:BD:54:GLU:C	35:BD:56:ALA:N	2.69	0.50
35:BD:190:GLY:C	35:BD:192:GLY:H	2.19	0.50
37:BF:114:LYS:O	37:BF:115:GLU:C	2.53	0.50
37:BF:139:LYS:O	37:BF:140:VAL:C	2.55	0.50
41:BJ:170:LYS:CB	41:BJ:172:GLY:N	2.74	0.50
42:BK:121:GLY:C	42:BK:123:PHE:N	2.69	0.50
44:BO:134:LEU:O	44:BO:135:VAL:CB	2.58	0.50
48:BS:86:GLU:O	48:BS:89:LEU:O	2.29	0.50
54:BY:127:ALA:C	54:BY:129:PHE:N	2.64	0.50
58:Bc:19:SER:O	58:Bc:23:ASP:CB	2.59	0.50
1:C1:110:U:O2'	1:C1:797:G:H1'	2.12	0.50
1:C1:217:A:N3	1:C1:218:A:H5'	2.26	0.50
1:C1:219:A:C6	1:C1:843:U:H1'	2.44	0.50
1:C1:321:C:N4	1:C1:341:A:OP2	2.45	0.50
1:C1:471:A:O2'	1:C1:472:U:H5'	2.11	0.50
1:C1:514:G:C4	1:C1:515:A:C8	3.00	0.50
1:C1:880:C:H2'	1:C1:881:A:H8	1.76	0.50
1:C1:986:G:O2'	1:C1:987:G:C8	2.62	0.50
1:C1:989:U:N3	1:C1:990:C:C4	2.79	0.50
1:C1:1001:A:N7	1:C1:1002:G:C5	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1232:U:C2'	1:C1:1233:G:H5'	2.41	0.50
1:C1:1275:A:C8	1:C1:1438:G:N2	2.79	0.50
1:C1:1330:G:C4	1:C1:1331:A:N7	2.79	0.50
1:C1:1338:C:H2'	1:C1:1339:C:O4'	2.12	0.50
1:C1:1358:G:HO2'	14:CM:129:GLN:C	2.13	0.50
1:C1:1407:U:C6	1:C1:1408:G:C8	2.99	0.50
1:C1:1472:C:H1'	1:C1:1473:U:OP2	2.12	0.50
2:CA:54:TRP:O	2:CA:57:LEU:N	2.45	0.50
3:CB:206:THR:O	3:CB:207:LEU:C	2.53	0.50
12:CK:27:ASP:C	12:CK:29:GLN:H	2.20	0.50
13:CL:44:ASN:O	13:CL:48:LYS:CB	2.59	0.50
16:CO:94:LEU:O	16:CO:95:PRO:CB	2.59	0.50
17:CP:49:ALA:O	17:CP:103:LEU:O	2.29	0.50
17:CP:73:ARG:HA	17:CP:84:THR:HA	1.94	0.50
23:Cb:79:UNK:O	23:Cb:80:UNK:C	2.57	0.50
29:D1:25:U:H3	29:D1:331:G:H8	1.55	0.50
29:D1:39:A:C5'	29:D1:40:A:OP2	2.57	0.50
29:D1:267:G:C8	29:D1:267:G:OP2	2.65	0.50
29:D1:295:A:H2'	29:D1:296:A:O4'	2.12	0.50
29:D1:575:G:C5'	29:D1:575:G:C8	2.84	0.50
29:D1:596:C:H5'	29:D1:597:G:OP1	2.11	0.50
29:D1:648:C:C5	29:D1:2374:C:O2'	2.48	0.50
29:D1:733:G:N3	29:D1:733:G:H3'	2.27	0.50
29:D1:811:U:C2	29:D1:812:G:C8	2.99	0.50
29:D1:844:G:C2	29:D1:850:U:C2	2.99	0.50
29:D1:1008:U:C6	29:D1:1008:U:H5"	2.46	0.50
29:D1:1104:G:H2'	29:D1:1105:A:O5'	2.11	0.50
29:D1:1304:A:H2	29:D1:2938:G:N3	2.09	0.50
29:D1:1366:A:C2	29:D1:1367:G:C5	3.00	0.50
29:D1:1523:U:H5"	29:D1:1834:U:H5	1.76	0.50
29:D1:1609:C:OP2	29:D1:1609:C:H6	1.94	0.50
29:D1:1627:U:H5'	29:D1:1628:C:P	2.52	0.50
29:D1:1757:A:C6	29:D1:1769:G:C6	2.99	0.50
29:D1:1847:A:C2	29:D1:1849:C:N1	2.79	0.50
29:D1:1878:G:C8	29:D1:1878:G:C3'	2.94	0.50
29:D1:1900:A:O4'	29:D1:1901:A:C2	2.64	0.50
29:D1:2129:U:C2'	29:D1:2130:G:C8	2.88	0.50
29:D1:2132:C:H6	29:D1:2132:C:C5'	2.18	0.50
29:D1:2137:U:C2	29:D1:2141:U:H5	2.29	0.50
29:D1:2278:C:N4	29:D1:2305:G:C8	2.79	0.50
29:D1:2308:C:H3'	29:D1:2309:A:H5"	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2395:G:C2'	29:D1:2396:G:H5'	2.37	0.50
29:D1:2696:A:N1	29:D1:2758:A:C5	2.79	0.50
29:D1:2749:G:C6	29:D1:2750:U:C4	3.00	0.50
29:D1:2821:C:H2'	29:D1:2822:U:H5'	1.93	0.50
29:D1:2834:G:C2	29:D1:2835:U:C5	2.99	0.50
29:D1:2837:A:C8	29:D1:2845:A:N1	2.79	0.50
29:D1:2839:G:O6	29:D1:2845:A:O2'	2.29	0.50
29:D1:2895:G:H2'	29:D1:2896:A:H8	1.76	0.50
29:D1:2912:G:O6	29:D1:3130:A:C5	2.64	0.50
29:D1:2980:U:N3	29:D1:2981:U:H5	2.09	0.50
29:D1:3215:A:N7	63:Dh:1:UNK:N	2.58	0.50
29:D1:3273:A:C8	29:D1:3275:U:C5	2.99	0.50
29:D1:3366:G:H2'	29:D1:3367:C:C6	2.47	0.50
30:D2:66:A:C8	30:D2:66:A:OP2	2.64	0.50
30:D2:78:U:C2	30:D2:79:A:C8	2.99	0.50
36:DE:188:GLU:CB	36:DE:189:GLU:CA	2.90	0.50
36:DE:253:PHE:N	36:DE:254:LYS:HA	2.25	0.50
37:DF:139:LYS:O	37:DF:140:VAL:C	2.54	0.50
39:DH:124:ASP:C	39:DH:126:SER:H	2.17	0.50
39:DH:126:SER:O	39:DH:128:LYS:N	2.35	0.50
42:DK:32:ARG:C	42:DK:34:SER:N	2.67	0.50
73:DM:3:GLY:O	73:DM:5:ARG:N	2.39	0.50
73:DM:95:GLU:O	73:DM:96:ILE:C	2.53	0.50
43:DN:23:ILE:O	43:DN:24:LYS:CB	2.60	0.50
44:DO:57:GLN:C	44:DO:59:PHE:H	2.18	0.50
46:DQ:70:THR:O	46:DQ:71:ALA:O	2.29	0.50
50:DU:27:ASP:O	50:DU:29:SER:N	2.42	0.50
57:Db:11:LYS:O	57:Db:12:LYS:CB	2.60	0.50
62:Dg:12:GLY:O	62:Dg:15:GLY:HA2	2.11	0.50
26:Dj:16:UNK:O	26:Dj:19:UNK:N	2.44	0.50
1:A1:48:G:C6	1:A1:432:G:C2	2.99	0.50
1:A1:185:U:C2	1:A1:201:G:N2	2.79	0.50
1:A1:235:G:H2'	1:A1:236:A:H8	1.75	0.50
1:A1:330:G:H2'	1:A1:331:A:C8	2.45	0.50
1:A1:446:A:C5	1:A1:447:U:H5	2.28	0.50
1:A1:478:A:C2	1:A1:479:C:C2	2.99	0.50
1:A1:641:G:C2	1:A1:642:G:C5	2.99	0.50
1:A1:704:C:HO2'	1:A1:705:U:H6	1.60	0.50
1:A1:1056:U:H2'	1:A1:1056:U:O2	2.11	0.50
1:A1:1107:G:C6	1:A1:1108:G:O6	2.64	0.50
1:A1:1169:G:N2	1:A1:1577:A:C5	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1209:C:C4	1:A1:1455:G:N2	2.78	0.50
1:A1:1211:A:C5	1:A1:1212:G:N7	2.80	0.50
1:A1:1281:G:H4'	15:AN:75:GLY:HA2	1.93	0.50
1:A1:1425:A:H2'	1:A1:1426:C:H5'	1.92	0.50
1:A1:1583:A:H1'	1:A1:1585:U:N1	2.26	0.50
1:A1:1591:C:O2	1:A1:1591:C:C2'	2.54	0.50
1:A1:1640:C:H1'	1:A1:1763:A:N1	2.27	0.50
1:A1:1645:G:C2	1:A1:1757:G:C2	3.00	0.50
1:A1:1767:G:OP1	1:A1:1770:U:H4'	2.10	0.50
3:AB:57:PHE:C	3:AB:59:HIS:N	2.67	0.50
4:AC:136:VAL:CB	4:AC:186:VAL:HA	2.41	0.50
13:AL:44:ASN:O	13:AL:45:LEU:C	2.55	0.50
17:AP:44:GLY:C	17:AP:46:SER:N	2.68	0.50
17:AP:95:PHE:O	17:AP:97:ASP:N	2.44	0.50
29:B1:15:C:O2	29:B1:15:C:O4'	2.27	0.50
29:B1:25:U:N3	29:B1:26:A:C5	2.79	0.50
29:B1:40:A:C6	29:B1:937:G:C2	2.99	0.50
29:B1:92:G:OP2	29:B1:93:C:H5"	2.11	0.50
29:B1:113:C:H2'	29:B1:113:C:O2	2.12	0.50
29:B1:124:U:H6	29:B1:124:U:O5'	1.95	0.50
29:B1:171:G:C2'	29:B1:172:G:O5'	2.59	0.50
29:B1:172:G:N2	29:B1:173:G:C4	2.80	0.50
29:B1:263:C:OP1	29:B1:264:G:OP1	2.30	0.50
29:B1:309:U:C5	29:B1:310:U:C5	3.00	0.50
29:B1:518:G:H3'	29:B1:519:A:H3'	1.94	0.50
29:B1:531:G:C2'	29:B1:532:A:H8	2.16	0.50
29:B1:533:A:C2	29:B1:534:U:O4	2.64	0.50
29:B1:723:U:H6	29:B1:723:U:C5'	2.25	0.50
29:B1:746:A:C8	29:B1:746:A:C5'	2.95	0.50
29:B1:1081:U:H2'	29:B1:1081:U:O2	2.10	0.50
29:B1:1131:G:C2	29:B1:2373:A:C5	3.00	0.50
29:B1:1201:C:H2'	29:B1:1201:C:O2	2.12	0.50
29:B1:1213:G:C8	29:B1:1213:G:C5'	2.86	0.50
29:B1:1352:A:C3'	29:B1:1353:U:H4'	2.41	0.50
29:B1:1445:U:C5	29:B1:1446:A:C5	2.99	0.50
29:B1:1542:G:N3	29:B1:1543:G:C8	2.80	0.50
29:B1:1702:U:O4	29:B1:1703:U:H6	1.95	0.50
29:B1:1799:A:H2	29:B1:1800:A:C2	2.29	0.50
29:B1:1887:A:N7	29:B1:2348:A:H2	2.08	0.50
29:B1:2146:C:C2'	29:B1:2147:A:H5"	2.40	0.50
29:B1:2369:G:C5	29:B1:2370:G:C6	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2576:G:C4	29:B1:2577:C:C5	3.00	0.50
29:B1:2591:A:C2	29:B1:2592:G:O4'	2.64	0.50
29:B1:2609:A:C2	29:B1:2610:G:N7	2.79	0.50
29:B1:2725:U:O4	29:B1:2727:A:C2	2.64	0.50
29:B1:2919:A:C2'	29:B1:2920:U:H5"	2.42	0.50
29:B1:3298:C:H2'	29:B1:3299:A:C8	2.46	0.50
29:B1:3390:G:C5	29:B1:3391:A:C8	2.99	0.50
30:B2:88:G:H2'	30:B2:89:G:C8	2.44	0.50
31:B3:88:A:C8	31:B3:89:A:C6	2.99	0.50
31:B3:106:C:O5'	31:B3:106:C:H6	1.93	0.50
32:BA:101:LYS:O	32:BA:102:LYS:C	2.53	0.50
35:BD:119:ARG:O	35:BD:120:TYR:C	2.54	0.50
35:BD:123:ALA:O	35:BD:125:ALA:N	2.44	0.50
37:BF:149:ILE:H	37:BF:151:LYS:H	1.59	0.50
44:BO:16:SER:O	44:BO:18:VAL:N	2.43	0.50
44:BO:86:ASN:O	44:BO:87:GLN:C	2.54	0.50
45:BP:128:ARG:O	45:BP:129:LEU:O	2.28	0.50
52:BW:133:LEU:O	52:BW:136:ALA:HB3	2.12	0.50
57:Bb:60:ASN:O	57:Bb:62:LYS:N	2.44	0.50
1:C1:10:G:C8	1:C1:1633:A:C4	2.99	0.50
1:C1:22:A:N1	1:C1:604:A:C6	2.79	0.50
1:C1:96:G:C6	1:C1:97:C:C4	3.00	0.50
1:C1:139:C:O4'	1:C1:141:U:H5"	2.12	0.50
1:C1:386:G:C2'	1:C1:387:A:O5'	2.59	0.50
1:C1:406:U:OP2	1:C1:406:U:H3'	2.11	0.50
1:C1:814:A:C2'	1:C1:816:G:H21	2.24	0.50
1:C1:820:U:HO2'	1:C1:821:U:P	2.35	0.50
1:C1:971:A:C8	1:C1:972:G:C8	3.00	0.50
1:C1:1008:G:N1	1:C1:1009:U:C2	2.79	0.50
1:C1:1131:A:H3'	1:C1:1132:A:C8	2.46	0.50
1:C1:1243:G:N7	1:C1:1244:A:N6	2.59	0.50
1:C1:1349:G:H3'	1:C1:1349:G:P	2.52	0.50
1:C1:1370:U:H2'	1:C1:1371:A:O5'	2.11	0.50
1:C1:1383:G:O6	1:C1:1384:A:N6	2.45	0.50
1:C1:1389:C:O4'	22:Ca:17:UNK:CB	2.59	0.50
1:C1:1403:C:OP1	1:C1:1414:U:OP1	2.29	0.50
1:C1:1581:C:H2'	1:C1:1582:U:H5'	1.94	0.50
1:C1:1693:A:H61	1:C1:1708:U:H3	1.60	0.50
1:C1:1720:G:N9	1:C1:1721:A:C8	2.80	0.50
1:C1:1778:G:N1	1:C1:1779:U:C5	2.79	0.50
2:CA:67:ILE:C	2:CA:69:ASN:N	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:66:PHE:C	3:CB:68:ILE:N	2.68	0.50
3:CB:146:THR:O	3:CB:147:ASN:C	2.55	0.50
5:CD:134:VAL:O	5:CD:136:ALA:N	2.44	0.50
8:CG:49:GLN:CA	8:CG:50:ILE:CB	2.90	0.50
14:CM:130:ARG:O	14:CM:131:ASP:C	2.55	0.50
16:CO:74:VAL:CB	16:CO:128:PHE:O	2.59	0.50
16:CO:80:ASN:O	16:CO:123:GLY:O	2.30	0.50
16:CO:116:ALA:C	16:CO:118:ARG:N	2.64	0.50
29:D1:44:U:C5	29:D1:45:A:C8	2.99	0.50
29:D1:244:G:H2'	29:D1:245:U:C5'	2.40	0.50
29:D1:342:A:N6	29:D1:368:G:N3	2.59	0.50
29:D1:543:C:H2'	29:D1:543:C:O2	2.11	0.50
29:D1:582:G:C6	29:D1:583:G:N7	2.79	0.50
29:D1:720:A:C8	29:D1:720:A:P	3.03	0.50
29:D1:779:G:H2'	29:D1:780:A:O4'	2.12	0.50
29:D1:856:G:C6	29:D1:857:G:N2	2.80	0.50
29:D1:939:U:H5'	29:D1:939:U:H6	1.75	0.50
29:D1:993:G:N2	29:D1:2638:C:OP2	2.43	0.50
29:D1:1084:A:C5	29:D1:1085:A:C6	2.99	0.50
29:D1:1129:A:N6	29:D1:1130:A:H61	2.10	0.50
29:D1:1140:G:OP1	38:DG:94:LYS:HA	2.11	0.50
29:D1:1206:G:H2'	29:D1:1207:G:H5'	1.92	0.50
29:D1:1229:G:C2	29:D1:1230:G:C4	2.99	0.50
29:D1:1246:G:N3	29:D1:1264:G:O2'	2.39	0.50
29:D1:1254:C:C2	29:D1:1263:A:N1	2.79	0.50
29:D1:1310:G:C2'	29:D1:1311:G:O5'	2.59	0.50
29:D1:1371:G:H5"	29:D1:1371:G:C8	2.46	0.50
29:D1:1498:A:C6	29:D1:1499:C:C4	3.00	0.50
29:D1:1687:U:C2'	29:D1:1688:U:H4'	2.42	0.50
29:D1:1714:A:H2'	29:D1:1715:A:OP1	2.11	0.50
29:D1:1780:G:O2'	29:D1:1781:C:H6	1.93	0.50
29:D1:1919:G:C2'	29:D1:1933:A:H61	2.24	0.50
29:D1:2105:G:H8	29:D1:2105:G:C5'	2.24	0.50
29:D1:2247:G:H5"	29:D1:2248:C:OP2	2.11	0.50
29:D1:2341:A:H2'	29:D1:2342:U:C6	2.46	0.50
29:D1:2666:C:C6	29:D1:2666:C:O5'	2.64	0.50
29:D1:2703:A:C4'	29:D1:2704:A:H5'	2.41	0.50
29:D1:2728:G:N2	29:D1:2729:U:C6	2.79	0.50
29:D1:2728:G:N2	29:D1:2729:U:C5	2.79	0.50
29:D1:2896:A:C5'	29:D1:2896:A:C8	2.95	0.50
29:D1:2896:A:C3'	29:D1:2897:A:H5"	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3006:A:H8	29:D1:3007:U:N1	2.09	0.50
29:D1:3037:U:C2	29:D1:3038:U:C5	3.00	0.50
29:D1:3060:C:H2'	29:D1:3061:G:H8	1.77	0.50
29:D1:3219:G:C8	29:D1:3257:C:C5'	2.77	0.50
29:D1:3353:G:N3	29:D1:3353:G:C2'	2.73	0.50
29:D1:3360:C:O2	29:D1:3360:C:C2'	2.54	0.50
30:D2:65:G:N2	30:D2:66:A:C4	2.80	0.50
30:D2:112:G:P	74:D2:207:OHX:N6	2.84	0.50
31:D3:106:C:H4'	31:D3:107:G:C5'	2.41	0.50
31:D3:140:G:H5"	31:D3:141:C:OP2	2.11	0.50
34:DC:86:VAL:O	34:DC:88:GLY:O	2.29	0.50
34:DC:186:GLY:O	34:DC:187:SER:O	2.29	0.50
36:DE:97:ALA:O	36:DE:101:THR:N	2.45	0.50
36:DE:227:LEU:HA	36:DE:229:ASP:N	2.25	0.50
73:DM:9:ALA:HA	73:DM:12:PHE:CB	2.41	0.50
43:DN:28:SER:O	43:DN:29:ALA:CB	2.58	0.50
44:DO:30:TYR:O	44:DO:31:ARG:C	2.55	0.50
44:DO:79:ALA:HA	44:DO:80:THR:O	2.12	0.50
45:DP:165:ALA:O	45:DP:166:GLU:C	2.54	0.50
46:DQ:62:ARG:C	46:DQ:64:ASN:H	2.18	0.50
60:De:26:TRP:C	60:De:28:ARG:N	2.69	0.50
61:Df:47:GLN:N	61:Df:48:SER:CA	2.72	0.50
63:Dh:43:UNK:O	63:Dh:46:UNK:N	2.45	0.50
1:A1:14:C:C5'	3:AB:163:GLY:HA2	2.42	0.50
1:A1:397:A:N6	1:A1:398:G:C2	2.79	0.50
1:A1:449:C:H2'	1:A1:450:U:C6	2.46	0.50
1:A1:492:A:N3	1:A1:494:U:H6	2.08	0.50
1:A1:502:U:H2'	1:A1:503:G:C8	2.46	0.50
1:A1:627:C:C2	1:A1:973:A:C2	2.99	0.50
1:A1:699:U:H2'	1:A1:700:C:C6	2.46	0.50
1:A1:738:G:O2'	1:A1:739:G:C8	2.63	0.50
1:A1:809:A:C2	1:A1:810:G:C2	2.99	0.50
1:A1:871:G:C2'	1:A1:872:G:H8	2.25	0.50
1:A1:994:G:C6	1:A1:1011:G:N2	2.79	0.50
1:A1:1030:A:N6	1:A1:1792:G:N7	2.59	0.50
1:A1:1032:G:C2	1:A1:1033:C:C2	2.99	0.50
1:A1:1192:C:H3'	1:A1:1193:A:H2'	1.93	0.50
1:A1:1340:U:C2	1:A1:1342:C:C5	3.00	0.50
1:A1:1384:A:C4	1:A1:1385:G:C8	3.00	0.50
1:A1:1404:C:H2'	1:A1:1405:G:H8	1.76	0.50
1:A1:1431:C:H3'	1:A1:1432:U:H5'	1.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1498:G:C2	1:A1:1499:G:N7	2.79	0.50
1:A1:1763:A:H2'	1:A1:1764:C:H5"	1.93	0.50
1:A1:1772:C:O2	1:A1:1772:C:C2'	2.59	0.50
1:A1:1793:G:H4'	1:A1:1793:G:OP1	2.12	0.50
5:AD:52:GLU:O	5:AD:53:VAL:C	2.54	0.50
8:AG:134:VAL:O	8:AG:135:LEU:C	2.54	0.50
8:AG:142:GLU:C	8:AG:144:ALA:N	2.70	0.50
14:AM:58:ALA:C	14:AM:60:SER:H	2.19	0.50
17:AP:80:GLY:O	17:AP:81:LYS:C	2.53	0.50
26:Ae:15:UNK:C	26:Ae:17:UNK:N	2.69	0.50
29:B1:43:A:C6	29:B1:2802:A:C2	2.97	0.50
29:B1:159:A:C2'	29:B1:160:G:C8	2.93	0.50
29:B1:178:U:H1'	29:B1:241:G:C6	2.46	0.50
29:B1:226:C:H4'	53:BX:29:VAL:O	2.11	0.50
29:B1:264:G:C2	29:B1:265:A:C5	2.99	0.50
29:B1:359:U:C2	29:B1:920:A:C6	2.98	0.50
29:B1:423:A:O5'	29:B1:423:A:H8	1.94	0.50
29:B1:547:G:H8	29:B1:548:G:N7	2.10	0.50
29:B1:967:A:H3'	29:B1:968:G:C8	2.47	0.50
29:B1:999:G:H5"	30:B2:104:A:H1'	1.93	0.50
29:B1:1066:G:H2'	29:B1:1067:U:C1'	2.41	0.50
29:B1:1143:A:C1'	29:B1:1368:U:C5	2.94	0.50
29:B1:1189:C:C4'	29:B1:1192:C:C5	2.91	0.50
29:B1:1199:C:N3	74:B1:3587:OHX:N5	2.60	0.50
29:B1:1358:C:H2'	29:B1:1359:C:C6	2.45	0.50
29:B1:1393:A:N7	29:B1:1418:A:C5	2.80	0.50
29:B1:1653:G:H2'	29:B1:1654:A:C5'	2.28	0.50
29:B1:2209:U:H6	29:B1:2209:U:H3'	1.76	0.50
29:B1:2280:A:HO2'	29:B1:2281:A:P	2.34	0.50
29:B1:2297:U:N3	29:B1:2299:A:C6	2.79	0.50
29:B1:2513:U:C6	29:B1:2592:G:N2	2.74	0.50
29:B1:2545:C:C2	29:B1:2546:C:C6	2.99	0.50
29:B1:2603:G:H2'	29:B1:2604:U:O4'	2.12	0.50
29:B1:2714:G:N9	29:B1:2716:U:C5	2.79	0.50
29:B1:2920:U:H5'	29:B1:2920:U:H6	1.76	0.50
29:B1:2947:G:H2'	29:B1:2948:C:H5	1.76	0.50
29:B1:3030:G:O2'	29:B1:3031:G:O4'	2.27	0.50
29:B1:3034:C:C2'	29:B1:3035:A:H5'	2.41	0.50
30:B2:119:U:H5'	30:B2:120:C:OP2	2.12	0.50
31:B3:136:G:OP1	52:BW:52:PRO:CB	2.59	0.50
33:BB:44:ILE:HA	33:BB:60:LYS:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:31:ARG:O	37:BF:32:ALA:O	2.29	0.50
38:BG:148:VAL:O	38:BG:150:LYS:N	2.44	0.50
39:BH:188:THR:C	39:BH:190:VAL:H	2.19	0.50
43:BN:55:ARG:O	43:BN:56:GLN:CB	2.59	0.50
46:BQ:128:ARG:HA	46:BQ:137:ASN:O	2.12	0.50
49:BT:63:VAL:O	49:BT:76:ILE:HA	2.11	0.50
53:BX:112:ASP:O	53:BX:114:ASP:N	2.45	0.50
62:Bg:25:GLN:C	62:Bg:27:LYS:N	2.70	0.50
1:C1:200:A:C2	1:C1:201:G:C4	2.99	0.50
1:C1:271:A:C2	1:C1:285:G:C6	2.99	0.50
1:C1:302:U:C2'	1:C1:303:U:H5'	2.41	0.50
1:C1:452:A:H2'	1:C1:453:U:O5'	2.11	0.50
1:C1:463:U:H2'	1:C1:464:A:H8	1.76	0.50
1:C1:542:A:H2	1:C1:544:A:H3'	1.76	0.50
1:C1:601:A:C6	1:C1:602:U:C4	3.00	0.50
1:C1:734:A:C6	1:C1:735:C:N3	2.79	0.50
1:C1:809:A:C6	1:C1:810:G:O6	2.64	0.50
1:C1:960:U:H2'	1:C1:961:U:H6	1.76	0.50
1:C1:1030:A:N6	1:C1:1792:G:N7	2.60	0.50
1:C1:1165:G:C6	1:C1:1166:A:C5	3.00	0.50
1:C1:1330:G:C5	1:C1:1331:A:N7	2.80	0.50
1:C1:1393:C:H2'	1:C1:1394:G:H8	1.74	0.50
1:C1:1425:A:C2'	1:C1:1426:C:H5'	2.42	0.50
1:C1:1438:G:H5'	1:C1:1438:G:H8	1.76	0.50
1:C1:1515:A:H3'	1:C1:1516:A:H5"	1.93	0.50
1:C1:1590:G:N3	1:C1:1591:C:C5	2.79	0.50
1:C1:1596:C:O2'	1:C1:1597:A:H3'	2.11	0.50
1:C1:1788:G:OP2	1:C1:1788:G:H8	1.93	0.50
2:CA:84:ARG:C	2:CA:86:VAL:N	2.69	0.50
4:CC:131:ALA:O	4:CC:132:LYS:C	2.54	0.50
5:CD:118:LEU:O	5:CD:119:ASP:C	2.53	0.50
9:CH:33:LEU:O	9:CH:34:SER:C	2.54	0.50
11:CJ:54:LEU:O	11:CJ:56:GLY:N	2.44	0.50
11:CJ:86:ALA:C	11:CJ:88:GLY:N	2.66	0.50
16:CO:33:VAL:O	16:CO:34:ILE:C	2.54	0.50
16:CO:114:GLU:HA	16:CO:117:ARG:CB	2.42	0.50
20:CS:38:ILE:N	74:CS:101:OHX:N5	2.60	0.50
23:Cb:77:UNK:O	23:Cb:78:UNK:C	2.59	0.50
23:Cb:126:UNK:O	23:Cb:127:UNK:O	2.30	0.50
29:D1:15:C:OP1	29:D1:16:A:OP1	2.29	0.50
29:D1:47:C:N4	29:D1:48:A:C6	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:112:U:O2'	29:D1:113:C:P	2.70	0.50
29:D1:292:U:H2'	29:D1:292:U:O2	2.10	0.50
29:D1:293:C:H2'	29:D1:294:U:O4'	2.12	0.50
29:D1:428:A:C2'	29:D1:429:U:O5'	2.59	0.50
29:D1:436:A:H8	29:D1:436:A:O5'	1.94	0.50
29:D1:581:U:O2	29:D1:581:U:H2'	2.10	0.50
29:D1:609:G:N7	29:D1:610:G:C6	2.80	0.50
29:D1:639:G:C2'	29:D1:640:U:H5'	2.42	0.50
29:D1:667:C:O2	29:D1:667:C:H2'	2.12	0.50
29:D1:697:A:N6	29:D1:699:A:C2	2.79	0.50
29:D1:747:A:C2'	29:D1:748:U:OP1	2.59	0.50
29:D1:790:U:N3	29:D1:791:A:N7	2.59	0.50
29:D1:958:C:P	29:D1:2799:A:H2'	2.52	0.50
29:D1:977:C:O2'	29:D1:978:G:P	2.70	0.50
29:D1:1011:A:N6	29:D1:1039:U:H3	1.85	0.50
29:D1:1174:G:C2'	29:D1:1175:C:H5'	2.42	0.50
29:D1:1212:A:H3'	29:D1:1213:G:H5"	1.93	0.50
29:D1:1324:U:C6	29:D1:1324:U:C4'	2.94	0.50
29:D1:1351:U:H2'	29:D1:1352:A:C4	2.46	0.50
29:D1:1695:U:O2'	29:D1:1749:A:N6	2.43	0.50
29:D1:1910:A:N6	29:D1:1911:A:N1	2.60	0.50
29:D1:2112:U:O2	29:D1:2113:A:C2	2.64	0.50
29:D1:2301:U:H2'	29:D1:2302:G:C8	2.46	0.50
29:D1:2376:G:C2	29:D1:2377:G:C2	2.99	0.50
29:D1:2741:C:C3'	61:Df:19:LYS:HA	2.41	0.50
29:D1:2760:C:OP1	29:D1:2760:C:C4'	2.60	0.50
29:D1:2834:G:C2	29:D1:2835:U:C6	3.00	0.50
29:D1:2836:C:H5	29:D1:2853:A:C2	2.28	0.50
29:D1:2879:C:C5	29:D1:2880:U:C4	3.00	0.50
29:D1:2903:A:C5	29:D1:2904:U:C5	3.00	0.50
29:D1:3097:C:C6	29:D1:3097:C:H3'	2.46	0.50
29:D1:3202:G:N3	29:D1:3203:U:C2	2.80	0.50
29:D1:3281:U:N3	29:D1:3282:U:O4	2.44	0.50
29:D1:3317:U:H3	34:DC:123:TYR:CA	2.21	0.50
29:D1:3320:A:C4	29:D1:3321:C:C4	2.99	0.50
29:D1:3323:A:C5	29:D1:3324:C:C5	3.00	0.50
29:D1:3327:G:N1	29:D1:3379:C:C4	2.79	0.50
29:D1:3333:G:H22	29:D1:3370:A:C4'	2.25	0.50
29:D1:3392:U:C2	29:D1:3393:U:N3	2.79	0.50
30:D2:34:C:O2'	30:D2:35:C:H5"	2.10	0.50
30:D2:48:U:H2'	30:D2:49:G:OP2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:80:A:C8	31:D3:80:A:OP2	2.64	0.50
32:DA:67:ILE:HA	32:DA:112:ALA:HB2	1.92	0.50
33:DB:18:SER:O	33:DB:20:THR:N	2.42	0.50
34:DC:257:PRO:CB	34:DC:259:HIS:N	2.75	0.50
37:DF:159:LEU:O	37:DF:161:ALA:N	2.43	0.50
42:DK:30:LEU:O	42:DK:32:ARG:N	2.44	0.50
44:DO:96:ARG:O	44:DO:97:SER:CB	2.58	0.50
45:DP:58:LEU:C	45:DP:60:LYS:N	2.70	0.50
45:DP:94:ARG:O	45:DP:97:ALA:HB3	2.11	0.50
54:DY:20:GLY:O	54:DY:22:ILE:N	2.45	0.50
54:DY:42:ARG:O	54:DY:43:ILE:O	2.30	0.50
55:DZ:43:ILE:O	55:DZ:89:VAL:HA	2.11	0.50
1:A1:206:A:C4	1:A1:262:U:C4	2.99	0.50
1:A1:208:U:H2'	1:A1:209:U:C6	2.46	0.50
1:A1:284:G:H2'	25:Ad:114:UNK:CB	2.41	0.50
1:A1:572:C:N4	1:A1:573:C:N4	2.58	0.50
1:A1:679:U:C4	1:A1:680:U:C4	2.99	0.50
1:A1:697:C:H3'	1:A1:698:U:H5'	1.93	0.50
1:A1:772:G:C5	1:A1:773:C:N4	2.79	0.50
1:A1:791:A:C4	1:A1:792:U:C5	2.99	0.50
1:A1:1131:A:H3'	1:A1:1132:A:C8	2.46	0.50
1:A1:1242:A:C2	1:A1:1243:G:C2	2.99	0.50
1:A1:1308:G:C4	1:A1:1309:C:C5	3.00	0.50
1:A1:1557:U:H2'	1:A1:1558:U:H5'	1.92	0.50
1:A1:1622:G:C5	1:A1:1623:C:C5	3.00	0.50
1:A1:1664:C:H5"	1:A1:1665:U:OP2	2.11	0.50
2:AA:11:PRO:O	2:AA:13:ASP:N	2.42	0.50
10:AI:86:VAL:CB	10:AI:87:PRO:CA	2.90	0.50
13:AL:65:GLU:O	13:AL:66:LEU:C	2.55	0.50
16:AO:75:ILE:O	16:AO:76:SER:O	2.30	0.50
17:AP:61:SER:CB	17:AP:67:ALA:H	2.24	0.50
17:AP:110:LYS:C	17:AP:112:LYS:H	2.20	0.50
18:AQ:94:LYS:C	18:AQ:96:SER:N	2.69	0.50
21:AT:95:ALA:C	21:AT:97:GLY:H	2.19	0.50
21:AT:135:THR:C	21:AT:137:LYS:N	2.69	0.50
21:AT:302:PHE:O	21:AT:303:ALA:HB2	2.12	0.50
29:B1:5:G:N2	31:B3:155:A:C4	2.78	0.50
29:B1:55:G:O2'	29:B1:56:G:P	2.68	0.50
29:B1:186:U:C5'	29:B1:187:A:OP2	2.53	0.50
29:B1:281:G:O6	29:B1:282:G:O6	2.29	0.50
29:B1:331:G:O2'	29:B1:332:C:H5"	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:380:U:H2'	29:B1:381:U:H6	1.73	0.50
29:B1:384:A:C8	29:B1:385:A:C8	2.99	0.50
29:B1:385:A:C2'	29:B1:386:A:O5'	2.60	0.50
29:B1:416:A:N6	31:B3:7:U:H3	2.08	0.50
29:B1:513:G:C2	29:B1:577:C:N3	2.70	0.50
29:B1:518:G:C8	29:B1:518:G:H5"	2.46	0.50
29:B1:655:C:H2'	29:B1:656:A:C8	2.46	0.50
29:B1:759:U:C2	29:B1:773:G:C2	3.00	0.50
29:B1:781:G:C6	29:B1:782:U:C5	2.99	0.50
29:B1:822:G:N2	29:B1:823:C:H1'	2.27	0.50
29:B1:1112:A:H3'	29:B1:1113:G:H8	1.76	0.50
29:B1:1144:U:O2'	29:B1:1145:G:P	2.67	0.50
29:B1:1172:G:H2'	29:B1:1173:U:O5'	2.11	0.50
29:B1:1246:G:H1'	29:B1:1264:G:N7	2.27	0.50
29:B1:1367:G:HO2'	29:B1:1368:U:P	2.35	0.50
29:B1:1658:G:C5	29:B1:1796:G:O6	2.64	0.50
29:B1:1715:A:N7	29:B1:1716:U:C6	2.79	0.50
29:B1:1886:A:O4'	29:B1:3307:A:H5'	2.11	0.50
29:B1:1915:A:O2'	29:B1:1916:U:H5'	2.11	0.50
29:B1:2119:A:C5	29:B1:2120:A:H2	2.29	0.50
29:B1:2618:G:P	29:B1:2618:G:H21	2.35	0.50
29:B1:2627:C:H4'	29:B1:2627:C:OP2	2.11	0.50
29:B1:2749:G:C5	29:B1:2750:U:C4	2.99	0.50
29:B1:2762:A:H2'	29:B1:2763:U:C6	2.46	0.50
29:B1:2804:A:O2'	29:B1:2805:G:O4'	2.27	0.50
29:B1:2808:A:C8	29:B1:2955:U:H4'	2.46	0.50
29:B1:2827:U:O2	29:B1:2827:U:C2'	2.60	0.50
29:B1:2980:U:C2	29:B1:2981:U:C5	3.00	0.50
29:B1:3152:U:H5'	29:B1:3294:A:H4'	1.92	0.50
29:B1:3191:G:C6	29:B1:3192:U:N3	2.79	0.50
29:B1:3199:G:H3'	29:B1:3200:G:C8	2.41	0.50
29:B1:3352:U:H2'	29:B1:3354:U:C4'	2.35	0.50
29:B1:3393:U:H2'	29:B1:3394:U:C6	2.46	0.50
30:B2:65:G:H2'	30:B2:66:A:O5'	2.11	0.50
31:B3:3:A:H2'	31:B3:4:C:C5'	2.41	0.50
31:B3:50:C:O2'	31:B3:51:G:O5'	2.29	0.50
31:B3:113:U:O2	31:B3:114:G:C8	2.65	0.50
34:BC:81:THR:O	34:BC:83:PRO:N	2.44	0.50
34:BC:83:PRO:CB	34:BC:204:ALA:CB	2.88	0.50
35:BD:203:ARG:O	35:BD:204:GLY:O	2.29	0.50
44:BO:49:ARG:HA	44:BO:53:TYR:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BZ:50:VAL:O	55:BZ:53:LYS:CB	2.60	0.50
56:Ba:56:ASN:O	56:Ba:57:GLN:C	2.53	0.50
56:Ba:60:TRP:O	56:Ba:62:ARG:N	2.44	0.50
63:Bh:36:UNK:O	63:Bh:37:UNK:C	2.59	0.50
1:C1:50:C:H2'	1:C1:424:C:H41	1.77	0.50
1:C1:105:A:N1	74:C1:1916:OHX:N6	2.59	0.50
1:C1:237:C:HO2'	1:C1:238:U:P	2.35	0.50
1:C1:337:G:O5'	1:C1:337:G:C8	2.64	0.50
1:C1:381:C:O2	1:C1:381:C:H2'	2.12	0.50
1:C1:544:A:H8	1:C1:544:A:OP2	1.94	0.50
1:C1:635:A:C5	1:C1:863:A:C8	3.00	0.50
1:C1:698:U:O2'	1:C1:699:U:C6	2.64	0.50
1:C1:748:U:H4'	16:CO:123:GLY:HA2	1.94	0.50
1:C1:758:U:H3'	1:C1:759:U:C6	2.46	0.50
1:C1:828:U:C4	1:C1:829:A:N6	2.80	0.50
1:C1:871:G:C2'	1:C1:872:G:H8	2.25	0.50
1:C1:883:C:O2	1:C1:883:C:C2'	2.59	0.50
1:C1:1056:U:O2	1:C1:1056:U:H2'	2.10	0.50
1:C1:1139:A:OP2	74:C1:1953:OHX:N1	2.44	0.50
1:C1:1250:U:C2	1:C1:1251:U:N3	2.79	0.50
1:C1:1256:A:OP2	1:C1:1257:U:H5'	2.11	0.50
1:C1:1282:U:N3	1:C1:1283:U:C5	2.79	0.50
1:C1:1466:G:H2'	1:C1:1467:C:H6	1.75	0.50
1:C1:1480:G:C2	1:C1:1528:U:C2	2.99	0.50
1:C1:1558:U:C6	1:C1:1558:U:C3'	2.95	0.50
1:C1:1571:C:H3'	1:C1:1572:G:C5'	2.41	0.50
1:C1:1757:G:C6	1:C1:1758:U:C5	2.99	0.50
4:CC:56:GLN:C	4:CC:59:LEU:H	2.17	0.50
5:CD:212:LYS:O	5:CD:215:ASP:N	2.44	0.50
9:CH:49:LYS:O	9:CH:51:ASP:N	2.45	0.50
17:CP:131:SER:CB	17:CP:133:LEU:HA	2.42	0.50
24:Cc:21:UNK:C	24:Cc:22:UNK:O	2.59	0.50
29:D1:40:A:N7	29:D1:937:G:C6	2.79	0.50
29:D1:221:A:C4	29:D1:224:C:C4	3.00	0.50
29:D1:232:G:C6	29:D1:233:C:C4	2.99	0.50
29:D1:559:A:H2'	29:D1:560:G:H5"	1.93	0.50
29:D1:573:C:H2'	29:D1:574:U:H5'	1.93	0.50
29:D1:601:U:H2'	29:D1:601:U:O2	2.10	0.50
29:D1:624:G:N2	29:D1:625:G:C8	2.79	0.50
29:D1:722:G:O2'	29:D1:723:U:P	2.70	0.50
29:D1:747:A:C8	29:D1:747:A:O5'	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:939:U:O4’	29:D1:2814:G:H5’	2.11	0.50
29:D1:1081:U:H2’	29:D1:1082:U:OP1	2.10	0.50
29:D1:1148:G:O2’	29:D1:1171:G:O4’	2.29	0.50
29:D1:1177:G:O5’	29:D1:1177:G:C8	2.65	0.50
29:D1:1232:C:C2	29:D1:1261:G:N1	2.79	0.50
29:D1:1357:G:C6	29:D1:1358:C:C4	3.00	0.50
29:D1:1379:G:N3	29:D1:1379:G:H2’	2.27	0.50
29:D1:1571:A:C5	29:D1:1572:U:H1’	2.45	0.50
29:D1:1847:A:C2	29:D1:1849:C:C6	2.99	0.50
29:D1:2143:A:N7	29:D1:2145:A:C6	2.80	0.50
29:D1:2278:C:N3	29:D1:2307:G:C2	2.79	0.50
29:D1:2352:A:C6	29:D1:2353:G:C6	3.00	0.50
29:D1:2356:A:C2	29:D1:2357:A:N9	2.79	0.50
29:D1:2425:G:H2’	29:D1:2426:U:C6	2.45	0.50
29:D1:2677:G:N2	29:D1:2679:A:O4’	2.44	0.50
29:D1:2696:A:N7	29:D1:2697:A:C6	2.80	0.50
29:D1:2722:U:H2’	29:D1:2723:U:C6	2.46	0.50
29:D1:2805:G:H2’	29:D1:2806:U:C6	2.47	0.50
29:D1:2864:A:C5	29:D1:2865:U:C5	2.99	0.50
29:D1:3007:U:H2’	29:D1:3008:A:O4’	2.12	0.50
29:D1:3060:C:O2	29:D1:3331:U:O2’	2.30	0.50
29:D1:3065:G:C2’	29:D1:3066:U:O5’	2.59	0.50
29:D1:3101:G:C3’	29:D1:3102:G:H5”	2.42	0.50
29:D1:3175:U:O2	29:D1:3175:U:O5’	2.30	0.50
29:D1:3202:G:OP2	29:D1:3202:G:C3’	2.42	0.50
29:D1:3226:A:C2’	29:D1:3227:A:H5’	2.41	0.50
29:D1:3305:A:H1’	29:D1:3311:C:O2	2.11	0.50
29:D1:3328:G:N1	29:D1:3375:A:N7	2.60	0.50
29:D1:3333:G:N1	29:D1:3370:A:C4’	2.70	0.50
29:D1:3348:G:C6	29:D1:3349:C:C2	3.00	0.50
29:D1:3372:A:C5	29:D1:3373:U:C4	2.99	0.50
29:D1:3381:U:C4	29:D1:3383:G:C6	3.00	0.50
30:D2:35:C:H2’	30:D2:36:C:O4’	2.10	0.50
30:D2:104:A:C4	30:D2:105:C:C6	2.99	0.50
31:D3:28:C:C5’	31:D3:29:U:OP2	2.58	0.50
31:D3:79:A:H3’	31:D3:80:A:H8	1.75	0.50
34:DC:157:VAL:O	34:DC:158:VAL:CB	2.58	0.50
35:DD:42:VAL:C	35:DD:44:LYS:N	2.67	0.50
38:DG:51:TYR:C	38:DG:53:LYS:N	2.69	0.50
42:DK:97:SER:C	42:DK:99:THR:H	2.19	0.50
72:DL:41:LYS:CB	72:DL:70:ALA:HA	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:79:ILE:O	45:DP:80:PHE:C	2.52	0.50
45:DP:133:ARG:O	45:DP:134:LYS:CB	2.59	0.50
52:DW:87:SER:O	52:DW:89:LYS:N	2.44	0.50
57:Db:40:SER:O	57:Db:42:VAL:N	2.45	0.50
62:Dg:34:HIS:O	62:Dg:35:ALA:HB3	2.12	0.50
64:Di:8:UNK:C	64:Di:10:UNK:N	2.72	0.50
26:Dj:5:UNK:C	26:Dj:7:UNK:N	2.73	0.50
65:Dk:14:UNK:O	65:Dk:17:UNK:N	2.45	0.50
1:A1:89:G:N3	1:A1:90:C:C6	2.80	0.50
1:A1:93:A:N7	1:A1:398:G:H2'	2.25	0.50
1:A1:150:U:H4'	1:A1:151:G:OP2	2.11	0.50
1:A1:169:A:C4	1:A1:171:A:C5	3.00	0.50
1:A1:340:U:C3'	1:A1:341:A:H8	2.22	0.50
1:A1:492:A:N1	1:A1:496:G:C2	2.79	0.50
1:A1:638:U:H3'	1:A1:639:U:C5'	2.34	0.50
1:A1:684:A:H5'	1:A1:685:A:OP2	2.12	0.50
1:A1:891:A:C6	1:A1:922:G:O6	2.64	0.50
1:A1:1001:A:N7	1:A1:1002:G:C5	2.80	0.50
1:A1:1241:G:O3'	1:A1:1242:A:C8	2.62	0.50
1:A1:1282:U:C2	1:A1:1283:U:C6	3.00	0.50
1:A1:1297:G:N2	1:A1:1301:U:N1	2.60	0.50
1:A1:1422:A:O2'	1:A1:1423:U:H5'	2.11	0.50
1:A1:1491:U:H5"	1:A1:1492:A:H5"	1.94	0.50
1:A1:1612:U:C3'	1:A1:1613:U:H5"	2.42	0.50
2:AA:8:ASP:C	2:AA:10:THR:H	2.19	0.50
2:AA:54:TRP:C	2:AA:56:LYS:N	2.68	0.50
4:AC:14:ASP:O	4:AC:16:VAL:O	2.30	0.50
5:AD:89:ILE:O	5:AD:90:ILE:C	2.54	0.50
7:AF:125:VAL:HA	7:AF:138:ASN:O	2.11	0.50
10:AI:17:TYR:CB	10:AI:18:ARG:CA	2.90	0.50
15:AN:119:ALA:HB1	15:AN:120:SER:HA	1.94	0.50
21:AT:63:GLY:O	21:AT:64:HIS:C	2.54	0.50
25:Ad:112:UNK:C	25:Ad:114:UNK:H	2.25	0.50
29:B1:25:U:C4	29:B1:331:G:C8	3.00	0.50
29:B1:28:C:O2'	29:B1:61:A:N3	2.44	0.50
29:B1:180:C:O2'	29:B1:181:U:H5'	2.11	0.50
29:B1:189:G:C6	29:B1:206:G:C5	2.99	0.50
29:B1:212:G:C6	29:B1:222:A:C5	2.99	0.50
29:B1:294:U:C2'	29:B1:295:A:H5"	2.42	0.50
29:B1:299:G:C6	29:B1:300:G:C5	2.99	0.50
29:B1:412:G:H2'	29:B1:413:U:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:413:U:N3	29:B1:414:U:C4	2.79	0.50
29:B1:437:G:C6	29:B1:438:A:N1	2.80	0.50
29:B1:532:A:C3'	29:B1:533:A:C8	2.92	0.50
29:B1:588:G:H4'	29:B1:589:A:C5	2.43	0.50
29:B1:588:G:N1	29:B1:612:U:C5	2.80	0.50
29:B1:666:A:C6	29:B1:667:C:C4	3.00	0.50
29:B1:673:U:C2'	29:B1:674:G:C5'	2.87	0.50
29:B1:687:U:H2'	29:B1:688:G:O5'	2.12	0.50
29:B1:877:C:C6	29:B1:877:C:C3'	2.95	0.50
29:B1:993:G:C6	29:B1:2637:A:C6	3.00	0.50
29:B1:1097:G:OP1	29:B1:1098:A:OP1	2.30	0.50
29:B1:1174:G:N3	29:B1:1175:C:C5	2.78	0.50
29:B1:1198:C:OP2	29:B1:1198:C:H6	1.95	0.50
29:B1:1317:A:C8	29:B1:1317:A:H5'	2.45	0.50
29:B1:1453:A:C1'	29:B1:1850:A:N1	2.75	0.50
29:B1:1609:C:O2'	29:B1:1610:G:P	2.69	0.50
29:B1:1658:G:N9	29:B1:1796:G:N7	2.60	0.50
29:B1:1678:G:H4'	29:B1:1756:C:H4'	1.92	0.50
29:B1:1878:G:C8	29:B1:1878:G:C3'	2.94	0.50
29:B1:1887:A:OP2	74:B1:3442:OHX:N1	2.45	0.50
29:B1:1933:A:N7	29:B1:1934:G:C8	2.79	0.50
29:B1:2128:C:N4	29:B1:2129:U:C4	2.80	0.50
29:B1:2133:U:H2'	29:B1:2134:G:O4'	2.11	0.50
29:B1:2213:A:C2'	29:B1:2214:A:C8	2.81	0.50
29:B1:2311:G:O5'	29:B1:2311:G:H8	1.94	0.50
29:B1:2520:A:C5	29:B1:2521:U:O4	2.64	0.50
29:B1:2522:G:C6	29:B1:2587:U:C5	2.99	0.50
29:B1:2674:A:OP1	42:BK:106:ILE:O	2.29	0.50
29:B1:2754:G:C3'	29:B1:2755:C:C5'	2.73	0.50
29:B1:2841:G:N1	29:B1:2844:C:N3	2.59	0.50
29:B1:3057:U:C2'	29:B1:3058:U:H4'	2.42	0.50
29:B1:3072:C:C5	29:B1:3073:A:C4	3.00	0.50
29:B1:3077:A:N6	29:B1:3080:G:C4	2.80	0.50
29:B1:3150:A:C3'	29:B1:3151:U:C5'	2.83	0.50
29:B1:3184:A:H8	29:B1:3184:A:C5'	2.16	0.50
29:B1:3284:G:H2'	29:B1:3285:C:C6	2.47	0.50
29:B1:3328:G:HO2'	29:B1:3329:U:C4'	2.25	0.50
29:B1:3348:G:C6	29:B1:3349:C:O2	2.65	0.50
30:B2:2:G:C2	30:B2:3:U:C6	2.99	0.50
31:B3:24:G:H2'	31:B3:25:G:O5'	2.12	0.50
31:B3:40:A:O2'	31:B3:41:A:OP1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:60:U:C4	31:B3:98:U:H4'	2.46	0.50
33:BB:130:SER:O	33:BB:131:GLY:C	2.54	0.50
34:BC:62:ARG:O	34:BC:63:PRO:C	2.54	0.50
35:BD:6:VAL:CB	35:BD:20:LEU:N	2.75	0.50
35:BD:53:SER:O	35:BD:55:LYS:N	2.45	0.50
38:BG:45:LEU:C	38:BG:47:ARG:N	2.68	0.50
40:BI:20:ILE:HA	40:BI:25:VAL:HA	1.94	0.50
40:BI:85:GLY:O	40:BI:187:ILE:N	2.44	0.50
42:BK:139:THR:C	42:BK:141:ARG:N	2.63	0.50
44:BO:54:LYS:O	44:BO:56:LYS:N	2.45	0.50
45:BP:172:ARG:O	45:BP:173:ALA:C	2.54	0.50
47:BR:125:ASP:O	47:BR:128:ALA:HB3	2.11	0.50
49:BT:108:ARG:O	49:BT:109:VAL:C	2.55	0.50
52:BW:75:LYS:C	52:BW:77:GLU:H	2.18	0.50
71:Br:12:UNK:O	71:Br:15:UNK:N	2.45	0.50
1:C1:20:G:C3'	1:C1:21:U:H5'	2.41	0.50
1:C1:104:A:C5'	1:C1:105:A:OP2	2.57	0.50
1:C1:121:U:H5'	1:C1:121:U:H6	1.77	0.50
1:C1:141:U:O2	1:C1:141:U:O4'	2.30	0.50
1:C1:357:G:C6	1:C1:358:U:C4	2.99	0.50
1:C1:413:U:O2'	1:C1:414:C:H5'	2.11	0.50
1:C1:603:U:H2'	1:C1:604:A:C8	2.46	0.50
1:C1:723:G:C5	1:C1:724:C:C4	2.99	0.50
1:C1:837:G:O6	74:C1:1928:OHX:N5	2.45	0.50
1:C1:838:G:C2	1:C1:839:U:C6	3.00	0.50
1:C1:1073:G:O6	1:C1:1074:G:O6	2.28	0.50
1:C1:1097:U:H2'	1:C1:1098:U:H5'	1.89	0.50
1:C1:1150:G:O4'	1:C1:1765:A:O2'	2.21	0.50
1:C1:1153:G:OP2	1:C1:1153:G:C8	2.60	0.50
1:C1:1284:C:O2	1:C1:1286:U:N3	2.45	0.50
1:C1:1483:A:C1'	1:C1:1524:A:H62	2.22	0.50
1:C1:1499:G:H2'	1:C1:1500:C:C6	2.44	0.50
1:C1:1686:C:C4	1:C1:1687:U:C4	3.00	0.50
3:CB:160:GLY:O	3:CB:161:LYS:CB	2.59	0.50
6:CE:54:ARG:O	6:CE:58:ASP:CB	2.59	0.50
9:CH:6:GLN:O	9:CH:7:ALA:HB3	2.11	0.50
9:CH:17:ALA:N	9:CH:80:HIS:O	2.40	0.50
9:CH:71:CYS:C	9:CH:73:GLU:N	2.69	0.50
20:CS:25:SER:O	20:CS:26:SER:C	2.54	0.50
29:D1:171:G:C2'	29:D1:172:G:O5'	2.59	0.50
29:D1:359:U:H1'	29:D1:817:A:N1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:424:G:C8	29:D1:424:G:H3'	2.46	0.50
29:D1:523:A:C5	29:D1:524:U:C6	3.00	0.50
29:D1:564:G:C2'	29:D1:565:U:C6	2.94	0.50
29:D1:694:C:H5"	29:D1:695:C:OP2	2.11	0.50
29:D1:817:A:H4'	29:D1:818:C:OP2	2.11	0.50
29:D1:858:A:H3'	29:D1:859:G:C8	2.46	0.50
29:D1:891:G:OP1	74:D1:3428:OHX:N2	2.45	0.50
29:D1:1312:C:H5'	29:D1:1313:G:OP2	2.10	0.50
29:D1:1492:G:H3'	29:D1:1493:G:C2	2.47	0.50
29:D1:1556:C:N3	29:D1:2169:G:N7	2.60	0.50
29:D1:1728:G:H5"	29:D1:1729:A:H3'	1.92	0.50
29:D1:1794:G:C6	33:DB:185:ALA:HB1	2.45	0.50
29:D1:2105:G:C4	29:D1:2106:A:C8	2.99	0.50
29:D1:2177:G:O2'	29:D1:2178:A:P	2.70	0.50
29:D1:2370:G:C5	29:D1:2371:G:C8	3.00	0.50
29:D1:2383:C:C4	29:D1:2384:A:C5	2.99	0.50
29:D1:2400:G:C1'	29:D1:2401:A:OP1	2.60	0.50
29:D1:2513:U:HO2'	29:D1:2514:U:P	2.33	0.50
29:D1:2530:G:OP2	29:D1:2530:G:H8	1.94	0.50
29:D1:2614:G:C6	29:D1:2615:G:C5	2.99	0.50
29:D1:2833:A:C2	29:D1:2834:G:C8	3.00	0.50
29:D1:2847:A:H3'	29:D1:2848:G:C8	2.33	0.50
29:D1:2931:C:C2'	29:D1:2932:U:H5'	2.42	0.50
29:D1:3078:U:C4'	29:D1:3079:U:O5'	2.50	0.50
29:D1:3133:C:C2'	29:D1:3134:A:O5'	2.60	0.50
29:D1:3203:U:H2'	29:D1:3204:C:C5	2.46	0.50
29:D1:3209:A:C4	29:D1:3210:A:C5	2.99	0.50
30:D2:75:G:OP2	74:D2:201:OHX:N4	2.45	0.50
30:D2:111:U:O3'	30:D2:112:G:H4'	2.11	0.50
31:D3:25:G:C6	31:D3:26:U:C4	3.00	0.50
31:D3:149:A:H2'	31:D3:150:G:C8	2.46	0.50
33:DB:200:ARG:C	33:DB:202:VAL:N	2.69	0.50
34:DC:2:SER:C	34:DC:4:ARG:N	2.69	0.50
34:DC:62:ARG:C	34:DC:64:GLY:H	2.20	0.50
34:DC:231:HIS:O	34:DC:232:ARG:C	2.55	0.50
34:DC:337:THR:O	34:DC:338:LEU:C	2.55	0.50
36:DE:141:PRO:HA	36:DE:143:LYS:H	1.76	0.50
37:DF:131:LYS:O	37:DF:132:ALA:C	2.54	0.50
38:DG:110:ARG:C	38:DG:111:ILE:O	2.55	0.50
41:DJ:59:GLN:HA	41:DJ:127:ALA:O	2.11	0.50
72:DL:123:ARG:O	72:DL:124:THR:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:77:SER:O	45:DP:78:ARG:C	2.50	0.50
47:DR:24:VAL:O	47:DR:25:TYR:C	2.54	0.50
48:DS:12:ALA:O	48:DS:13:SER:C	2.55	0.50
50:DU:130:ALA:O	50:DU:131:SER:C	2.55	0.50
57:Db:110:ALA:O	57:Db:111:ARG:C	2.54	0.50
1:A1:209:U:N3	1:A1:210:A:N7	2.60	0.50
1:A1:213:A:N6	1:A1:214:G:C2	2.80	0.50
1:A1:329:G:C2	1:A1:330:G:C5	3.00	0.50
1:A1:331:A:H5"	1:A1:332:U:OP2	2.11	0.50
1:A1:387:A:C2	1:A1:426:G:OP2	2.64	0.50
1:A1:575:C:C5'	1:A1:576:G:OP2	2.59	0.50
1:A1:700:C:H42	1:A1:738:G:H1	1.60	0.50
1:A1:814:A:N1	1:A1:858:G:C2	2.80	0.50
1:A1:964:U:H4'	1:A1:965:U:O5'	2.12	0.50
1:A1:974:A:C2	1:A1:975:C:C2	3.00	0.50
1:A1:1075:C:N3	1:A1:1076:A:N1	2.60	0.50
1:A1:1250:U:C2	1:A1:1251:U:C4	2.99	0.50
1:A1:1565:C:H5"	1:A1:1566:U:OP2	2.12	0.50
1:A1:1673:G:O2'	1:A1:1674:C:H5'	2.12	0.50
1:A1:1693:A:H61	1:A1:1708:U:H3	1.59	0.50
1:A1:1790:A:C2'	1:A1:1791:A:H5"	2.41	0.50
2:AA:63:ILE:C	2:AA:65:ALA:N	2.67	0.50
2:AA:210:VAL:O	2:AA:212:GLN:N	2.45	0.50
14:AM:13:ASP:C	14:AM:15:ILE:N	2.70	0.50
15:AN:31:VAL:O	15:AN:35:GLU:N	2.44	0.50
17:AP:107:PHE:O	17:AP:108:GLY:C	2.54	0.50
29:B1:34:A:H2'	29:B1:35:A:C1'	2.42	0.50
29:B1:196:G:N1	29:B1:199:A:OP2	2.45	0.50
29:B1:221:A:C4	29:B1:224:C:C4	2.99	0.50
29:B1:279:U:O2	29:B1:286:U:N3	2.44	0.50
29:B1:333:G:H2'	29:B1:334:A:C8	2.46	0.50
29:B1:342:A:C2	29:B1:349:A:N7	2.80	0.50
29:B1:368:G:C6	29:B1:369:A:N7	2.79	0.50
29:B1:577:C:O2	37:BF:149:ILE:HA	2.11	0.50
29:B1:727:G:C8	29:B1:743:C:N4	2.80	0.50
29:B1:926:A:H2'	29:B1:927:C:C6	2.47	0.50
29:B1:1076:C:N3	29:B1:1077:U:O4	2.45	0.50
29:B1:1119:C:N3	29:B1:1120:A:N7	2.59	0.50
29:B1:1303:A:C8	29:B1:1304:A:N1	2.80	0.50
29:B1:1336:U:H2'	29:B1:1337:A:H8	1.75	0.50
29:B1:1393:A:C2'	29:B1:1394:A:H5"	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1444:G:H8	29:B1:1444:G:O5'	1.94	0.50
29:B1:1644:C:N4	74:B1:3505:OHX:N4	2.60	0.50
29:B1:1674:G:C6	29:B1:1675:G:C5	3.00	0.50
29:B1:1729:A:OP2	55:BZ:27:TYR:CB	2.60	0.50
29:B1:1771:C:C4	29:B1:1772:U:C5	2.99	0.50
29:B1:1779:C:O4'	29:B1:1779:C:P	2.68	0.50
29:B1:1779:C:OP2	29:B1:1780:G:C8	2.65	0.50
29:B1:2149:A:H62	29:B1:2187:G:N2	2.09	0.50
29:B1:2308:C:OP1	29:B1:2309:A:H2'	2.12	0.50
29:B1:2487:U:H4'	29:B1:2488:A:OP2	2.08	0.50
29:B1:2717:U:C5'	29:B1:2717:U:H6	2.25	0.50
29:B1:2768:U:H2'	29:B1:2769:A:C8	2.44	0.50
29:B1:2833:A:C2'	29:B1:2834:G:H5'	2.34	0.50
29:B1:2836:C:C5	29:B1:2853:A:C2	2.99	0.50
29:B1:2876:C:C1'	29:B1:2952:G:N2	2.75	0.50
29:B1:2922:G:H2'	29:B1:2923:U:O4'	2.12	0.50
29:B1:3019:U:O2	29:B1:3019:U:H2'	2.12	0.50
29:B1:3217:C:C5'	29:B1:3276:G:H22	2.24	0.50
29:B1:3271:G:C4	29:B1:3271:G:C3'	2.93	0.50
29:B1:3317:U:N3	34:BC:123:TYR:HA	2.23	0.50
29:B1:3327:G:C6	29:B1:3328:G:C5	3.00	0.50
29:B1:3333:G:H1	29:B1:3370:A:C1'	2.25	0.50
30:B2:64:A:H1'	30:B2:65:G:O5'	2.10	0.50
30:B2:91:G:O6	30:B2:92:A:N6	2.44	0.50
31:B3:69:U:C4	31:B3:70:G:C8	3.00	0.50
34:BC:29:VAL:O	34:BC:31:ALA:N	2.45	0.50
34:BC:76:VAL:HA	34:BC:325:LYS:CA	2.41	0.50
34:BC:197:GLU:O	34:BC:198:HIS:C	2.52	0.50
37:BF:156:LYS:O	37:BF:160:SER:N	2.44	0.50
41:BJ:159:PHE:O	41:BJ:160:PRO:C	2.54	0.50
42:BK:32:ARG:C	42:BK:34:SER:N	2.67	0.50
46:BQ:10:ASN:N	46:BQ:12:ALA:H	2.10	0.50
46:BQ:108:ASP:O	46:BQ:110:THR:N	2.45	0.50
49:BT:98:HIS:O	49:BT:99:SER:CB	2.59	0.50
60:Be:26:TRP:O	60:Be:27:ILE:C	2.54	0.50
1:C1:23:G:C6	1:C1:24:U:C4	3.00	0.50
1:C1:78:A:OP1	1:C1:78:A:H2	1.95	0.50
1:C1:143:G:N2	1:C1:144:U:O2	2.45	0.50
1:C1:287:G:O6	1:C1:288:A:N6	2.44	0.50
1:C1:407:A:C6	1:C1:408:C:C4	2.99	0.50
1:C1:698:U:H3	1:C1:740:A:N6	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:789:A:C5	1:C1:790:U:C5	2.99	0.50
1:C1:991:G:N2	1:C1:1014:G:O6	2.45	0.50
1:C1:1192:C:H5"	11:CJ:142:TYR:CB	2.42	0.50
1:C1:1268:G:H1'	1:C1:1448:G:H5"	1.92	0.50
1:C1:1287:A:C2	1:C1:1288:G:H1'	2.46	0.50
1:C1:1359:C:H3'	1:C1:1360:A:C8	2.46	0.50
1:C1:1391:A:N3	1:C1:1392:U:C5	2.80	0.50
1:C1:1583:A:O2'	1:C1:1584:G:C5'	2.55	0.50
1:C1:1597:A:C5	1:C1:1598:U:C4	2.99	0.50
23:Cb:83:UNK:N	23:Cb:86:UNK:N	2.60	0.50
29:D1:43:A:C6	29:D1:2802:A:C2	2.97	0.50
29:D1:99:A:H1'	29:D1:281:G:C6	2.47	0.50
29:D1:120:G:N2	29:D1:150:A:C8	2.79	0.50
29:D1:246:U:OP2	29:D1:247:C:H5"	2.12	0.50
29:D1:324:A:H5"	29:D1:325:A:OP2	2.11	0.50
29:D1:365:A:C2	29:D1:366:A:N3	2.79	0.50
29:D1:561:C:H2'	29:D1:562:C:C6	2.47	0.50
29:D1:712:G:H2'	29:D1:713:U:H6	1.77	0.50
29:D1:835:G:N3	29:D1:857:G:C2	2.80	0.50
29:D1:1105:A:C2	29:D1:1106:G:C4	3.00	0.50
29:D1:1153:A:C8	29:D1:1154:A:C5	3.00	0.50
29:D1:1188:U:H3	29:D1:1317:A:H62	1.60	0.50
29:D1:1202:A:C2'	29:D1:1203:A:OP2	2.58	0.50
29:D1:1317:A:N7	29:D1:1319:G:C5	2.79	0.50
29:D1:1498:A:H5'	29:D1:1602:A:H1'	1.92	0.50
29:D1:1502:C:C4	29:D1:1515:A:C2	3.00	0.50
29:D1:1575:A:H2'	29:D1:1576:G:O4'	2.11	0.50
29:D1:1656:A:C2	29:D1:1798:A:OP2	2.64	0.50
29:D1:1700:G:O2'	29:D1:1701:C:H5'	2.12	0.50
29:D1:1730:G:O6	55:DZ:29:SER:N	2.44	0.50
29:D1:2254:U:C5	29:D1:2254:U:OP2	2.64	0.50
29:D1:2279:A:C2	29:D1:2283:G:C2	2.99	0.50
29:D1:2333:C:H5"	29:D1:2334:U:OP2	2.12	0.50
29:D1:2522:G:H1'	29:D1:2523:A:OP2	2.11	0.50
29:D1:2572:C:C4	29:D1:2573:G:C6	2.99	0.50
29:D1:2582:C:C5'	29:D1:2583:C:OP2	2.57	0.50
29:D1:2603:G:H2'	29:D1:2604:U:O4'	2.12	0.50
29:D1:2664:C:H2'	29:D1:2664:C:O2	2.12	0.50
29:D1:2743:A:C3'	29:D1:2744:U:C6	2.91	0.50
29:D1:2761:G:H4'	29:D1:2762:A:OP1	2.12	0.50
29:D1:2804:A:C2	29:D1:2805:G:C8	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2814:G:H2'	29:D1:2815:G:C8	2.47	0.50
29:D1:3102:G:O2'	29:D1:3103:A:P	2.69	0.50
29:D1:3203:U:H2'	29:D1:3204:C:C2	2.47	0.50
29:D1:3225:C:C5	74:D1:3489:OHX:N6	2.80	0.50
29:D1:3322:A:C6	29:D1:3323:A:N6	2.80	0.50
29:D1:3328:G:O2'	29:D1:3329:U:C4'	2.59	0.50
31:D3:40:A:N6	31:D3:104:A:C4	2.80	0.50
32:DA:30:GLU:O	32:DA:31:THR:C	2.54	0.50
32:DA:53:LEU:CB	32:DA:54:LYS:HA	2.42	0.50
32:DA:62:ASN:HA	32:DA:152:ARG:C	2.37	0.50
35:DD:153:SER:C	35:DD:155:ASP:N	2.68	0.50
36:DE:96:ALA:C	36:DE:98:ALA:N	2.66	0.50
38:DG:43:ILE:C	38:DG:45:LEU:N	2.66	0.50
38:DG:148:VAL:O	38:DG:152:GLY:N	2.45	0.50
39:DH:223:ALA:C	39:DH:225:LYS:N	2.65	0.50
45:DP:128:ARG:O	45:DP:129:LEU:C	2.54	0.50
47:DR:71:LEU:O	47:DR:72:LYS:C	2.55	0.50
49:DT:35:LYS:C	49:DT:37:GLY:N	2.69	0.50
49:DT:103:GLN:O	49:DT:106:LEU:N	2.44	0.50
1:A1:20:G:H4'	1:A1:571:G:N1	2.26	0.50
1:A1:106:U:C5	1:A1:107:C:C4	3.00	0.50
1:A1:269:G:C6	1:A1:270:C:N4	2.79	0.50
1:A1:335:U:H5'	1:A1:336:G:OP2	2.11	0.50
1:A1:439:U:C4	1:A1:465:G:C2	3.00	0.50
1:A1:542:A:H2'	1:A1:544:A:H5"	1.93	0.50
1:A1:586:G:C5	1:A1:587:C:C4	2.99	0.50
1:A1:647:G:C6	1:A1:687:G:N1	2.80	0.50
1:A1:756:A:H2'	1:A1:757:A:H8	1.76	0.50
1:A1:758:U:H3'	1:A1:759:U:H6	1.76	0.50
1:A1:766:U:C5	1:A1:769:A:OP2	2.64	0.50
1:A1:993:A:C2'	1:A1:994:G:H5'	2.42	0.50
1:A1:1075:C:O2'	1:A1:1076:A:H5'	2.11	0.50
1:A1:1138:A:N1	1:A1:1139:A:C6	2.80	0.50
1:A1:1146:G:H2'	1:A1:1147:A:O5'	2.12	0.50
1:A1:1232:U:C2'	1:A1:1233:G:H5'	2.42	0.50
1:A1:1431:C:C5'	1:A1:1432:U:H5'	2.42	0.50
1:A1:1432:U:OP2	1:A1:1432:U:H4'	2.12	0.50
1:A1:1517:U:O2	15:AN:16:GLN:C	2.55	0.50
1:A1:1558:U:C6	1:A1:1558:U:C3'	2.95	0.50
1:A1:1558:U:N1	1:A1:1559:A:H2	2.09	0.50
1:A1:1598:U:C4	1:A1:1599:C:H5	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1654:G:N2	1:A1:1745:G:C4	2.79	0.50
1:A1:1660:A:C5	1:A1:1661:U:C5	3.00	0.50
21:AT:181:TRP:CB	21:AT:188:ILE:HA	2.42	0.50
29:B1:63:A:H2'	29:B1:64:G:H8	1.71	0.50
29:B1:121:A:H4'	29:B1:150:A:N3	2.27	0.50
29:B1:212:G:C5	29:B1:222:A:N7	2.80	0.50
29:B1:282:G:N3	29:B1:286:U:H5'	2.27	0.50
29:B1:333:G:H2'	29:B1:334:A:H8	1.76	0.50
29:B1:359:U:H2'	29:B1:360:G:O4'	2.12	0.50
29:B1:396:A:O2'	29:B1:397:A:P	2.69	0.50
29:B1:398:A:N3	29:B1:1416:C:OP1	2.45	0.50
29:B1:596:C:H5	29:B1:609:G:H5'	1.76	0.50
29:B1:597:G:N3	29:B1:598:A:H1'	2.26	0.50
29:B1:606:C:C4	29:B1:607:A:C5	3.00	0.50
29:B1:636:C:C6	29:B1:2378:C:O4'	2.65	0.50
29:B1:665:A:N6	29:B1:666:A:N6	2.60	0.50
29:B1:703:G:C6	29:B1:704:U:C4	2.99	0.50
29:B1:710:A:O2'	29:B1:711:A:C5'	2.60	0.50
29:B1:847:A:C2'	29:B1:848:A:H8	2.22	0.50
29:B1:1161:G:C6	29:B1:1162:U:C4	3.00	0.50
29:B1:1196:C:C5	29:B1:1197:A:N6	2.43	0.50
29:B1:1209:G:H2'	29:B1:1210:U:O4'	2.12	0.50
29:B1:1237:G:C8	29:B1:1238:C:H1'	2.47	0.50
29:B1:1317:A:N7	29:B1:1319:G:C5	2.80	0.50
29:B1:1386:A:C8	35:BD:180:LYS:HA	2.46	0.50
29:B1:1441:G:C3'	29:B1:1442:U:H5"	2.36	0.50
29:B1:1571:A:C5	29:B1:1572:U:H1'	2.46	0.50
29:B1:1699:A:H2'	29:B1:1700:G:H8	1.75	0.50
29:B1:1725:C:C2	29:B1:1726:C:C5	3.00	0.50
29:B1:1903:U:C2	29:B1:1905:G:C5'	2.93	0.50
29:B1:2514:U:HO2'	29:B1:2515:A:H8	1.60	0.50
29:B1:2541:U:O2	29:B1:2541:U:C2'	2.58	0.50
29:B1:2616:C:H2'	29:B1:2617:U:C5'	2.31	0.50
29:B1:2630:C:C2	29:B1:2631:U:C5	3.00	0.50
29:B1:2677:G:C2'	29:B1:2678:A:O5'	2.60	0.50
29:B1:2773:C:O2'	29:B1:2774:C:H5'	2.11	0.50
29:B1:3003:G:C2	29:B1:3004:C:C4	2.99	0.50
29:B1:3196:U:C6	29:B1:3197:G:N2	2.80	0.50
29:B1:3333:G:N2	29:B1:3370:A:O3'	2.40	0.50
29:B1:3333:G:N3	29:B1:3371:G:N9	2.60	0.50
74:B1:3492:OHX:N1	54:BY:20:GLY:N	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:66:A:H3'	30:B2:66:A:P	2.51	0.50
30:B2:98:C:H3'	30:B2:99:G:C5'	2.38	0.50
31:B3:65:A:O2'	31:B3:66:A:H5'	2.12	0.50
31:B3:80:A:H2'	31:B3:81:U:N3	2.27	0.50
31:B3:116:G:C2	31:B3:117:C:C6	3.00	0.50
35:BD:253:ALA:O	35:BD:254:ALA:O	2.29	0.50
35:BD:261:VAL:O	35:BD:262:TRP:C	2.54	0.50
36:BE:111:GLN:H	36:BE:115:LEU:N	2.06	0.50
38:BG:193:PRO:C	38:BG:195:PHE:N	2.67	0.50
39:BH:105:LYS:N	39:BH:108:ARG:CB	2.74	0.50
40:BI:150:SER:O	40:BI:151:VAL:C	2.53	0.50
42:BK:29:ARG:O	42:BK:30:LEU:C	2.55	0.50
44:BO:83:LYS:H	44:BO:85:THR:CA	2.24	0.50
44:BO:95:GLN:O	44:BO:96:ARG:C	2.55	0.50
45:BP:37:ARG:O	45:BP:39:GLU:N	2.45	0.50
45:BP:53:LYS:O	45:BP:56:ASP:N	2.30	0.50
59:Bd:60:GLY:C	59:Bd:62:GLY:H	2.18	0.50
1:C1:157:A:C2'	1:C1:158:U:H5'	2.40	0.50
1:C1:430:G:O2'	1:C1:431:C:H5'	2.12	0.50
1:C1:644:C:N4	1:C1:691:C:N4	2.58	0.50
1:C1:738:G:C2	1:C1:739:G:C5	3.00	0.50
1:C1:756:A:C6	1:C1:757:A:C5	3.00	0.50
1:C1:837:G:H2'	1:C1:838:G:H8	1.75	0.50
1:C1:871:G:O2'	1:C1:872:G:O4'	2.30	0.50
1:C1:905:A:C2	1:C1:906:A:H1'	2.47	0.50
1:C1:948:G:H2'	1:C1:949:C:H6	1.76	0.50
1:C1:1039:A:O2'	1:C1:1040:G:O5'	2.29	0.50
1:C1:1164:G:H2'	1:C1:1165:G:C8	2.47	0.50
1:C1:1267:G:H21	1:C1:1448:G:H5"	1.74	0.50
1:C1:1389:C:N4	1:C1:1391:A:H1'	2.27	0.50
1:C1:1392:U:O2'	1:C1:1393:C:H5'	2.12	0.50
1:C1:1431:C:C5'	1:C1:1432:U:H5'	2.42	0.50
1:C1:1591:C:O2	1:C1:1591:C:C2'	2.56	0.50
5:CD:57:SER:O	5:CD:58:LEU:C	2.54	0.50
5:CD:164:PRO:O	5:CD:165:LEU:C	2.55	0.50
5:CD:196:GLU:O	5:CD:197:GLU:CB	2.59	0.50
10:CI:73:PRO:O	10:CI:74:ALA:CB	2.59	0.50
12:CK:42:GLN:CB	12:CK:47:ARG:HA	2.42	0.50
14:CM:15:ILE:C	14:CM:17:ALA:N	2.67	0.50
21:CT:9:LEU:HA	21:CT:313:TRP:CA	2.25	0.50
29:D1:121:A:H4'	29:D1:150:A:N3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:161:G:H2'	29:D1:162:G:C8	2.45	0.50
29:D1:221:A:C4	29:D1:224:C:C5	3.00	0.50
29:D1:268:A:O2'	29:D1:269:G:OP2	2.26	0.50
29:D1:536:U:P	29:D1:536:U:C6	2.93	0.50
29:D1:633:C:H2'	29:D1:634:C:O4'	2.12	0.50
29:D1:638:C:H2'	29:D1:639:G:C8	2.46	0.50
29:D1:1079:A:H8	29:D1:1079:A:OP1	1.94	0.50
29:D1:1127:G:H22	29:D1:1132:C:N4	2.10	0.50
29:D1:1145:G:N7	29:D1:1146:C:C5	2.80	0.50
29:D1:1198:C:OP2	29:D1:1200:A:N7	2.44	0.50
29:D1:1258:U:O2	29:D1:1258:U:C2'	2.58	0.50
29:D1:1471:U:O4'	48:DS:3:ASN:HA	2.12	0.50
29:D1:1471:U:HO2'	29:D1:1472:U:H5'	1.76	0.50
29:D1:1583:A:H2'	29:D1:1584:U:O4'	2.12	0.50
29:D1:1662:G:C4	29:D1:1663:C:C5	2.99	0.50
29:D1:1678:G:C4	29:D1:1679:A:C8	3.00	0.50
29:D1:1878:G:H3'	29:D1:1879:A:H5'	1.93	0.50
29:D1:1936:A:C6	29:D1:1937:U:C4	3.00	0.50
29:D1:1942:U:H1'	29:D1:3342:A:C2	2.47	0.50
29:D1:2092:A:OP2	29:D1:2093:A:H8	1.95	0.50
29:D1:2133:U:C2'	29:D1:2134:G:H5'	2.41	0.50
29:D1:2152:A:O4'	29:D1:2243:A:C2	2.64	0.50
29:D1:2188:A:H2	62:Dg:19:GLY:HA2	1.77	0.50
29:D1:2369:G:C6	29:D1:2370:G:C6	3.00	0.50
29:D1:2414:G:HO2'	29:D1:2415:C:P	2.35	0.50
29:D1:2469:G:H2'	29:D1:2470:C:C5	2.47	0.50
29:D1:2676:A:H2'	29:D1:2677:G:OP1	2.11	0.50
29:D1:2719:U:C5	29:D1:2720:G:C5	3.00	0.50
29:D1:2736:A:O3'	49:DT:72:VAL:CB	2.60	0.50
29:D1:2787:G:C4	29:D1:2788:C:C5	3.00	0.50
29:D1:2804:A:O2'	29:D1:2805:G:O4'	2.26	0.50
29:D1:2812:C:C2	29:D1:2813:A:N7	2.80	0.50
29:D1:2841:G:C5	29:D1:2844:C:N4	2.80	0.50
29:D1:2890:A:C6	29:D1:2891:U:C4	3.00	0.50
29:D1:3034:C:H6	29:D1:3034:C:H3'	1.75	0.50
29:D1:3057:U:O2'	29:D1:3059:G:H8	1.95	0.50
29:D1:3121:U:H4'	29:D1:3122:A:C5'	2.41	0.50
30:D2:12:U:C2	30:D2:70:U:P	3.05	0.50
30:D2:66:A:H3'	30:D2:66:A:P	2.52	0.50
30:D2:111:U:O2'	30:D2:112:G:OP1	2.29	0.50
31:D3:148:G:O2'	31:D3:149:A:P	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DB:90:ALA:O	33:DB:91:GLY:C	2.54	0.50
34:DC:95:THR:CB	34:DC:97:ARG:H	2.25	0.50
43:DN:73:PRO:O	43:DN:74:ARG:C	2.53	0.50
46:DQ:47:TYR:O	46:DQ:50:GLN:N	2.45	0.50
46:DQ:125:GLN:CB	46:DQ:141:SER:H	2.25	0.50
48:DS:37:SER:O	48:DS:39:ASN:N	2.45	0.50
52:DW:105:VAL:O	52:DW:106:ASP:CB	2.59	0.50
54:DY:127:ALA:C	54:DY:129:PHE:N	2.70	0.50
65:Dk:19:UNK:O	65:Dk:20:UNK:O	2.30	0.50
1:A1:11:A:H2'	1:A1:12:U:O4'	2.12	0.50
1:A1:172:C:C4	1:A1:173:A:C8	3.00	0.50
1:A1:190:C:H42	1:A1:192:U:H3	1.60	0.50
1:A1:287:G:H2'	1:A1:288:A:H5'	1.94	0.50
1:A1:310:C:N4	1:A1:357:G:C6	2.80	0.50
1:A1:583:C:C2	1:A1:584:C:C6	3.00	0.50
1:A1:619:A:P	1:A1:620:A:OP2	2.70	0.50
1:A1:631:G:C2'	1:A1:632:U:H5'	2.41	0.50
1:A1:648:G:N1	1:A1:649:U:C4	2.79	0.50
1:A1:812:A:C5	1:A1:858:G:N7	2.80	0.50
1:A1:845:G:N7	74:A1:1932:OHX:N5	2.59	0.50
1:A1:933:A:N6	1:A1:935:U:O2	2.45	0.50
1:A1:1050:G:N3	1:A1:1051:G:H1'	2.26	0.50
1:A1:1242:A:O4'	10:AI:78:THR:HA	2.12	0.50
1:A1:1280:C:O2'	15:AN:70:THR:CB	2.60	0.50
1:A1:1410:A:N7	1:A1:1411:A:C4	2.80	0.50
1:A1:1481:C:H6	1:A1:1482:C:C2	2.29	0.50
1:A1:1507:G:H2'	1:A1:1508:U:O4'	2.12	0.50
1:A1:1590:G:H2'	1:A1:1591:C:H5	1.68	0.50
5:AD:212:LYS:O	5:AD:214:LYS:N	2.44	0.50
11:AJ:40:GLU:C	11:AJ:42:GLU:H	2.19	0.50
13:AL:68:ARG:C	13:AL:71:GLN:H	2.20	0.50
13:AL:121:ALA:HB3	13:AL:124:GLY:CA	2.41	0.50
21:AT:216:LYS:C	21:AT:218:GLY:N	2.68	0.50
29:B1:60:A:H2'	29:B1:61:A:C5'	2.40	0.50
29:B1:90:C:OP1	29:B1:283:G:H1'	2.11	0.50
29:B1:173:G:N7	74:B1:3489:OHX:N5	2.60	0.50
29:B1:220:G:H8	29:B1:220:G:H5"	1.76	0.50
29:B1:366:A:H8	29:B1:366:A:O5'	1.95	0.50
29:B1:565:U:C5	29:B1:565:U:OP2	2.65	0.50
29:B1:656:A:H5'	29:B1:657:A:P	2.52	0.50
29:B1:681:U:O2	29:B1:682:U:C6	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:784:A:H2'	29:B1:785:G:N7	2.25	0.50
29:B1:1180:A:C6	29:B1:1182:A:C5	2.99	0.50
29:B1:1204:A:H5"	29:B1:1205:A:OP2	2.11	0.50
29:B1:1205:A:C6	29:B1:1206:G:C5	2.99	0.50
29:B1:1384:U:O2'	29:B1:1385:C:P	2.70	0.50
29:B1:1472:U:H2'	29:B1:1473:G:H8	1.77	0.50
29:B1:1593:A:C2'	29:B1:1594:A:H8	2.18	0.50
29:B1:1609:C:OP2	29:B1:1609:C:H6	1.95	0.50
29:B1:1714:A:H2'	29:B1:1715:A:OP1	2.12	0.50
29:B1:2469:G:H2'	29:B1:2470:C:C5	2.47	0.50
29:B1:2555:G:C1'	29:B1:2556:C:P	3.00	0.50
29:B1:2561:A:OP1	29:B1:2561:A:H8	1.94	0.50
29:B1:2628:A:C4	29:B1:2798:C:N4	2.80	0.50
29:B1:2628:A:N9	29:B1:2798:C:N4	2.60	0.50
29:B1:2673:A:C2	29:B1:2676:A:C8	3.00	0.50
29:B1:2847:A:N3	29:B1:2848:G:C8	2.80	0.50
29:B1:2847:A:H62	29:B1:2898:G:N2	2.09	0.50
29:B1:2864:A:C6	29:B1:2865:U:C4	2.99	0.50
29:B1:2988:C:H2'	29:B1:2988:C:O2	2.11	0.50
29:B1:3024:A:H3'	29:B1:3025:C:H6	1.77	0.50
29:B1:3046:A:C2'	29:B1:3047:U:H5'	2.42	0.50
29:B1:3050:U:C4	29:B1:3051:U:C4	3.00	0.50
29:B1:3086:A:H2'	29:B1:3087:A:C8	2.46	0.50
29:B1:3111:U:H2'	29:B1:3112:G:C5'	2.39	0.50
29:B1:3322:A:OP2	29:B1:3323:A:OP2	2.30	0.50
29:B1:3340:G:H2'	29:B1:3341:U:O5'	2.11	0.50
30:B2:33:U:H5	36:BE:206:GLN:O	1.95	0.50
30:B2:52:G:C2	30:B2:53:U:C2	2.99	0.50
30:B2:82:G:C4	30:B2:99:G:C2	3.00	0.50
31:B3:4:C:H2'	31:B3:5:U:H5'	1.94	0.50
31:B3:49:G:C2'	31:B3:50:C:O5'	2.59	0.50
34:BC:24:SER:O	34:BC:26:ARG:O	2.29	0.50
34:BC:127:LYS:CB	34:BC:128:LYS:HA	2.42	0.50
34:BC:198:HIS:C	34:BC:200:GLU:N	2.69	0.50
35:BD:254:ALA:O	35:BD:255:PHE:C	2.55	0.50
36:BE:257:GLU:CA	36:BE:258:LYS:CB	2.90	0.50
37:BF:122:PHE:O	37:BF:126:GLN:CB	2.60	0.50
37:BF:150:LYS:C	37:BF:152:THR:N	2.70	0.50
38:BG:69:ALA:C	38:BG:71:ALA:N	2.68	0.50
38:BG:154:GLY:C	38:BG:156:ILE:H	2.20	0.50
45:BP:156:LEU:O	45:BP:157:GLU:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:52:LEU:H	46:BQ:54:HIS:N	2.10	0.50
47:BR:23:ASN:O	47:BR:26:LEU:N	2.44	0.50
52:BW:83:VAL:O	52:BW:84:PHE:O	2.29	0.50
58:Bc:63:ARG:O	58:Bc:64:GLU:C	2.54	0.50
62:Bg:57:CYS:CB	74:Bg:101:OHX:N4	2.75	0.50
71:Br:8:UNK:O	71:Br:11:UNK:N	2.45	0.50
1:C1:47:A:N1	1:C1:100:A:C5	2.80	0.50
1:C1:87:C:O2	1:C1:87:C:C2'	2.59	0.50
1:C1:89:G:C6	1:C1:90:C:C4	3.00	0.50
1:C1:100:A:N1	1:C1:101:U:C4	2.80	0.50
1:C1:108:A:C2'	1:C1:109:G:C8	2.92	0.50
1:C1:224:C:N3	1:C1:838:G:N2	2.60	0.50
1:C1:289:U:C2	1:C1:290:G:C8	3.00	0.50
1:C1:357:G:C4	1:C1:358:U:C6	2.98	0.50
1:C1:361:C:C4	1:C1:384:G:C2	2.99	0.50
1:C1:417:A:H4'	1:C1:418:G:O4'	2.12	0.50
1:C1:439:U:C1'	1:C1:440:U:OP1	2.58	0.50
1:C1:452:A:C2'	1:C1:453:U:C5'	2.81	0.50
1:C1:635:A:C4	1:C1:863:A:N7	2.80	0.50
1:C1:651:G:C5	74:C1:1970:OHX:N3	2.80	0.50
1:C1:665:U:H2'	1:C1:666:U:C5'	2.42	0.50
1:C1:726:C:O5'	1:C1:726:C:H6	1.95	0.50
1:C1:734:A:C8	1:C1:735:C:C5	3.00	0.50
1:C1:826:U:O2	1:C1:847:A:N1	2.45	0.50
1:C1:838:G:C6	1:C1:839:U:N3	2.80	0.50
1:C1:863:A:C4	1:C1:865:A:C8	3.00	0.50
1:C1:931:C:H2'	1:C1:932:U:OP1	2.12	0.50
1:C1:1109:G:N1	1:C1:1110:G:N7	2.59	0.50
1:C1:1137:A:C2	1:C1:1138:A:C5	2.99	0.50
1:C1:1348:A:H5"	15:CN:11:GLU:HA	1.94	0.50
1:C1:1494:C:H2'	1:C1:1495:C:H6	1.77	0.50
1:C1:1564:U:H2'	1:C1:1565:C:H6	1.69	0.50
1:C1:1722:A:OP1	1:C1:1722:A:C4'	2.58	0.50
2:CA:58:VAL:O	2:CA:61:ALA:HB3	2.12	0.50
2:CA:205:ARG:O	2:CA:206:ASP:C	2.55	0.50
5:CD:149:VAL:C	5:CD:151:GLY:H	2.20	0.50
13:CL:75:ASN:HA	13:CL:78:HIS:CB	2.42	0.50
24:Cc:36:UNK:O	24:Cc:38:UNK:O	2.30	0.50
29:D1:66:A:N6	29:D1:68:C:C2	2.80	0.50
29:D1:158:G:O6	29:D1:159:A:N3	2.44	0.50
29:D1:180:C:H2'	29:D1:181:U:H6	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:294:U:O2'	29:D1:295:A:H5"	2.12	0.50
29:D1:380:U:H2'	29:D1:381:U:H6	1.76	0.50
29:D1:423:A:C6	29:D1:637:C:OP1	2.64	0.50
29:D1:532:A:C2	29:D1:533:A:C4	3.00	0.50
29:D1:588:G:C4	29:D1:612:U:H5	2.29	0.50
29:D1:629:U:C3'	29:D1:630:A:H8	2.25	0.50
29:D1:760:G:N3	29:D1:760:G:C2'	2.73	0.50
29:D1:895:A:C2	29:D1:897:U:C5	3.00	0.50
29:D1:987:U:H2'	29:D1:988:U:C5	2.46	0.50
29:D1:1156:C:C3'	29:D1:1157:G:C5'	2.80	0.50
29:D1:1294:A:H8	29:D1:1294:A:C5'	2.17	0.50
29:D1:1313:G:C4	29:D1:1314:C:C6	3.00	0.50
29:D1:1413:G:C2	29:D1:1414:G:C8	2.99	0.50
29:D1:1587:A:C4	29:D1:1590:G:C5	3.00	0.50
29:D1:1803:C:C6	29:D1:1803:C:OP2	2.65	0.50
29:D1:2175:U:H3'	29:D1:2176:U:H5'	1.94	0.50
29:D1:2196:C:C2	29:D1:2242:A:N6	2.80	0.50
29:D1:2278:C:O2'	29:D1:2279:A:H5"	2.12	0.50
29:D1:2390:A:H2'	29:D1:2391:G:O4'	2.11	0.50
29:D1:2511:A:H2'	29:D1:2512:C:C5'	2.41	0.50
29:D1:2576:G:C5	29:D1:2577:C:C5	3.00	0.50
29:D1:2666:C:H2'	29:D1:2666:C:O2	2.11	0.50
29:D1:2712:U:HO2'	29:D1:2743:A:H4'	1.71	0.50
29:D1:2766:U:OP1	61:Df:39:GLY:N	2.26	0.50
29:D1:2806:U:HO2'	29:D1:2807:U:H5'	1.75	0.50
29:D1:2997:G:N3	29:D1:2997:G:O2'	2.45	0.50
29:D1:3034:C:C5	29:D1:3035:A:N7	2.80	0.50
29:D1:3045:G:C8	29:D1:3045:G:C3'	2.95	0.50
29:D1:3049:A:C2	34:DC:75:ALA:CB	2.93	0.50
29:D1:3074:G:H2'	29:D1:3075:G:H8	1.77	0.50
29:D1:3215:A:P	29:D1:3218:A:C5'	2.97	0.50
29:D1:3242:G:N2	29:D1:3244:A:C8	2.63	0.50
29:D1:3306:U:H2'	29:D1:3308:C:OP2	2.12	0.50
29:D1:3337:G:C6	29:D1:3338:C:C4	3.00	0.50
29:D1:3349:C:H2'	29:D1:3350:C:N1	2.27	0.50
31:D3:29:U:H2'	31:D3:30:C:C6	2.40	0.50
31:D3:97:A:C6	31:D3:98:U:N3	2.80	0.50
43:DN:78:THR:C	43:DN:80:THR:H	2.20	0.50
45:DP:77:SER:C	45:DP:79:ILE:H	2.20	0.50
45:DP:95:GLY:C	45:DP:97:ALA:N	2.68	0.50
50:DU:53:SER:O	50:DU:55:GLY:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DW:69:SER:O	52:DW:72:ALA:N	2.43	0.50
52:DW:88:MET:C	52:DW:90:ALA:N	2.70	0.50
53:DX:49:PRO:O	53:DX:50:ILE:C	2.55	0.50
55:DZ:10:ILE:C	55:DZ:12:GLN:H	2.20	0.50
1:A1:29:U:H2'	1:A1:30:G:C8	2.44	0.49
1:A1:268:C:N4	1:A1:288:A:C2	2.79	0.49
1:A1:361:C:O2'	1:A1:362:G:H5'	2.12	0.49
1:A1:477:A:H2'	1:A1:478:A:H8	1.76	0.49
1:A1:486:G:H2'	1:A1:487:G:C4'	2.42	0.49
1:A1:553:G:N2	1:A1:571:G:N2	2.60	0.49
1:A1:708:C:O4'	1:A1:731:C:N3	2.45	0.49
1:A1:829:A:H1'	1:A1:830:U:C5'	2.41	0.49
1:A1:1119:G:O2'	1:A1:1120:U:H5'	2.12	0.49
1:A1:1174:C:H2'	1:A1:1175:U:H6	1.66	0.49
1:A1:1199:G:C4	1:A1:1200:G:O4'	2.65	0.49
1:A1:1203:A:N1	1:A1:1556:A:C4	2.80	0.49
1:A1:1267:G:O2'	1:A1:1268:G:H5'	2.12	0.49
1:A1:1285:U:O2	1:A1:1286:U:H5	1.94	0.49
1:A1:1346:A:C5	1:A1:1347:U:H1'	2.46	0.49
1:A1:1476:C:H2'	1:A1:1477:G:C8	2.47	0.49
1:A1:1521:G:C6	74:A1:1943:OHX:N2	2.80	0.49
1:A1:1580:C:C4'	1:A1:1581:C:OP1	2.55	0.49
1:A1:1644:C:C6	1:A1:1644:C:OP2	2.64	0.49
1:A1:1727:G:C2	1:A1:1728:A:C5	3.00	0.49
3:AB:65:GLU:C	3:AB:68:ILE:CB	2.84	0.49
21:AT:53:LYS:C	21:AT:55:GLY:N	2.67	0.49
29:B1:161:G:H2'	29:B1:162:G:C8	2.39	0.49
29:B1:324:A:H5"	29:B1:325:A:OP2	2.11	0.49
29:B1:373:A:N1	29:B1:375:A:C5	2.80	0.49
29:B1:389:A:H2'	29:B1:390:G:O4'	2.12	0.49
29:B1:421:G:O2'	29:B1:2365:C:OP2	2.20	0.49
29:B1:424:G:O2'	29:B1:425:G:OP1	2.30	0.49
29:B1:715:A:O2'	29:B1:716:A:C5'	2.60	0.49
29:B1:952:A:C2'	29:B1:953:G:C5'	2.84	0.49
29:B1:1151:U:H5"	29:B1:1152:G:OP2	2.12	0.49
29:B1:1213:G:C2'	29:B1:1214:U:O5'	2.59	0.49
29:B1:1302:A:O2'	29:B1:2887:A:H2	1.94	0.49
29:B1:1397:C:N4	29:B1:1398:U:O4	2.45	0.49
29:B1:1536:G:C6	29:B1:1586:G:N2	2.80	0.49
29:B1:1537:A:C5	29:B1:1538:G:C8	3.00	0.49
29:B1:1604:G:H2'	29:B1:1605:A:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1627:U:H5'	29:B1:1628:C:P	2.51	0.49
29:B1:1634:G:N1	29:B1:1640:G:C6	2.80	0.49
29:B1:1691:U:O2'	29:B1:1692:U:O5'	2.19	0.49
29:B1:1700:G:O2'	29:B1:1701:C:H5'	2.11	0.49
29:B1:1794:G:O3'	29:B1:1796:G:N2	2.43	0.49
29:B1:1895:A:C6	29:B1:2335:G:N7	2.80	0.49
29:B1:2207:A:C8	29:B1:2237:C:C2	3.00	0.49
29:B1:2249:G:N9	29:B1:2272:G:C8	2.79	0.49
29:B1:2356:A:H2'	29:B1:2356:A:N3	2.27	0.49
29:B1:2380:U:C2	29:B1:2381:G:C8	3.00	0.49
29:B1:2572:C:C4	29:B1:2573:G:C6	2.99	0.49
29:B1:2581:U:OP2	29:B1:2581:U:H6	1.94	0.49
29:B1:2730:G:H2'	29:B1:2731:U:O5'	2.12	0.49
29:B1:3012:A:C2	29:B1:3043:C:C2	3.00	0.49
29:B1:3039:C:O2	29:B1:3040:A:C8	2.65	0.49
29:B1:3065:G:C2'	29:B1:3066:U:O5'	2.60	0.49
29:B1:3194:C:C6	29:B1:3194:C:C3'	2.95	0.49
29:B1:3321:C:O2'	29:B1:3322:A:H5'	2.12	0.49
29:B1:3333:G:H22	29:B1:3370:A:C4'	2.25	0.49
29:B1:3344:A:C5	29:B1:3361:G:O6	2.65	0.49
29:B1:3390:G:C2	29:B1:3391:A:N3	2.80	0.49
30:B2:19:C:H2'	30:B2:20:A:C8	2.47	0.49
30:B2:38:U:C2'	30:B2:40:C:H5"	2.42	0.49
30:B2:88:G:C6	30:B2:89:G:N7	2.79	0.49
31:B3:30:C:O2	31:B3:31:G:C8	2.65	0.49
31:B3:70:G:N7	31:B3:71:A:N1	2.60	0.49
31:B3:75:G:OP2	31:B3:76:C:P	2.70	0.49
31:B3:90:U:O2'	31:B3:91:C:H5'	2.12	0.49
35:BD:209:TYR:HA	35:BD:249:ILE:O	2.12	0.49
37:BF:30:LEU:CB	37:BF:31:ARG:HA	2.42	0.49
37:BF:43:LEU:H	37:BF:84:VAL:CA	2.25	0.49
41:BJ:142:ASP:C	41:BJ:144:ASN:H	2.20	0.49
42:BK:90:GLN:CB	42:BK:169:ALA:HB3	2.42	0.49
44:BO:34:ASN:O	44:BO:35:VAL:C	2.54	0.49
45:BP:178:VAL:C	45:BP:180:SER:H	2.19	0.49
47:BR:110:ALA:O	47:BR:111:ARG:C	2.55	0.49
47:BR:150:VAL:CB	47:BR:151:ARG:CA	2.90	0.49
48:BS:120:TYR:O	48:BS:123:LEU:CB	2.60	0.49
57:Bb:107:VAL:O	57:Bb:109:LEU:C	2.54	0.49
62:Bg:86:LEU:O	62:Bg:89:MET:O	2.30	0.49
1:C1:32:U:O2'	1:C1:33:U:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:63:G:O2'	1:C1:169:A:O3'	2.30	0.49
1:C1:114:C:N4	1:C1:250:C:O4'	2.34	0.49
1:C1:224:C:N4	1:C1:838:G:H1	2.08	0.49
1:C1:247:A:H3'	1:C1:247:A:C8	2.47	0.49
1:C1:269:G:N1	1:C1:287:G:C2	2.79	0.49
1:C1:290:G:H2'	1:C1:291:G:N7	2.27	0.49
1:C1:488:G:O2'	1:C1:489:C:C6	2.64	0.49
1:C1:555:A:C1'	1:C1:556:A:OP1	2.60	0.49
1:C1:564:G:N2	1:C1:577:G:OP1	2.45	0.49
1:C1:623:A:H3'	1:C1:623:A:P	2.52	0.49
1:C1:625:C:H2'	1:C1:626:U:C6	2.47	0.49
1:C1:646:C:H3'	1:C1:647:G:C5'	2.38	0.49
1:C1:717:C:C1'	1:C1:718:U:P	3.00	0.49
1:C1:804:A:C4	1:C1:805:U:C5	3.00	0.49
1:C1:845:G:N7	74:C1:1917:OHX:N4	2.60	0.49
1:C1:876:G:H2'	1:C1:936:G:N2	2.27	0.49
1:C1:939:A:H5"	1:C1:940:A:OP2	2.12	0.49
1:C1:989:U:C2	1:C1:990:C:C5	3.00	0.49
1:C1:1122:G:N2	1:C1:1126:G:C5	2.80	0.49
1:C1:1371:A:N3	1:C1:1371:A:H2'	2.26	0.49
1:C1:1402:G:N3	1:C1:1403:C:C6	2.80	0.49
1:C1:1694:A:C4'	1:C1:1695:G:OP1	2.60	0.49
1:C1:1754:A:H1'	1:C1:1755:A:N3	2.27	0.49
2:CA:48:ILE:O	2:CA:50:VAL:N	2.45	0.49
3:CB:154:LEU:CB	3:CB:169:LEU:C	2.85	0.49
3:CB:235:LEU:O	3:CB:236:PRO:C	2.54	0.49
9:CH:64:ALA:CA	9:CH:68:ALA:H	2.16	0.49
13:CL:65:GLU:O	13:CL:66:LEU:C	2.55	0.49
29:D1:60:A:N7	29:D1:61:A:N7	2.60	0.49
29:D1:195:U:O2	29:D1:196:G:H1'	2.10	0.49
29:D1:197:G:H21	29:D1:218:G:H21	1.59	0.49
29:D1:216:G:C6	29:D1:217:U:N3	2.80	0.49
29:D1:499:G:C2'	29:D1:500:C:O5'	2.57	0.49
29:D1:516:A:O5'	29:D1:517:G:OP1	2.30	0.49
29:D1:603:A:C8	29:D1:603:A:O5'	2.65	0.49
29:D1:629:U:H2'	29:D1:630:A:C8	2.47	0.49
29:D1:647:A:H4'	29:D1:648:C:OP1	2.12	0.49
29:D1:784:A:H2'	29:D1:785:G:N7	2.24	0.49
29:D1:802:C:H2'	29:D1:803:C:C6	2.47	0.49
29:D1:847:A:H2'	29:D1:848:A:H8	1.71	0.49
29:D1:992:A:N1	29:D1:993:G:C8	2.79	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1085:A:H2'	29:D1:1086:C:C6	2.47	0.49
29:D1:1234:G:C5'	29:D1:1235:U:OP2	2.60	0.49
29:D1:1337:A:C6	29:D1:1338:C:C5	2.99	0.49
29:D1:1530:U:O2	29:D1:1530:U:C2'	2.60	0.49
29:D1:1672:U:O2	29:D1:1672:U:H2'	2.12	0.49
29:D1:1724:U:O2'	29:D1:1725:C:P	2.69	0.49
29:D1:1909:A:N6	29:D1:1910:A:C2	2.80	0.49
29:D1:2107:A:C5	29:D1:2108:C:C5	3.00	0.49
29:D1:2136:C:O2	29:D1:2136:C:H2'	2.11	0.49
29:D1:2144:A:N1	29:D1:2281:A:C4	2.80	0.49
29:D1:2157:G:N7	33:DB:151:PRO:CB	2.74	0.49
29:D1:2215:A:C4	29:D1:2216:G:C8	2.99	0.49
29:D1:2276:G:C6	29:D1:2277:C:C5	3.00	0.49
29:D1:2276:G:H2'	29:D1:2277:C:H5'	1.92	0.49
29:D1:2279:A:N1	29:D1:2283:G:N2	2.60	0.49
29:D1:2419:A:C5	29:D1:2804:A:C5	2.99	0.49
29:D1:2820:A:C5'	29:D1:2821:C:OP2	2.60	0.49
29:D1:2894:C:H2'	29:D1:2895:G:H8	1.77	0.49
29:D1:3038:U:O2'	29:D1:3039:C:O4'	2.28	0.49
29:D1:3078:U:C1'	29:D1:3079:U:OP2	2.58	0.49
29:D1:3141:A:N3	29:D1:3144:G:P	2.85	0.49
29:D1:3151:U:OP2	29:D1:3151:U:H3'	2.12	0.49
29:D1:3161:C:O2	29:D1:3161:C:C2'	2.60	0.49
29:D1:3200:G:H8	29:D1:3200:G:OP2	1.93	0.49
29:D1:3260:G:N1	29:D1:3261:C:H4'	2.25	0.49
29:D1:3303:G:C2	29:D1:3305:A:C4	3.00	0.49
29:D1:3323:A:O2'	29:D1:3324:C:H5'	2.11	0.49
29:D1:3348:G:H2'	29:D1:3349:C:O4'	2.12	0.49
30:D2:18:C:C4	30:D2:19:C:C5	3.00	0.49
30:D2:38:U:H2'	30:D2:40:C:C5'	2.41	0.49
31:D3:14:C:C6	31:D3:15:G:N7	2.80	0.49
31:D3:26:U:H6	31:D3:26:U:O5'	1.95	0.49
31:D3:57:C:O2'	31:D3:58:G:H5'	2.12	0.49
33:DB:59:ALA:HA	33:DB:74:GLU:HA	1.94	0.49
34:DC:92:TYR:O	34:DC:93:VAL:CB	2.60	0.49
38:DG:43:ILE:C	38:DG:45:LEU:H	2.19	0.49
42:DK:27:GLY:CA	42:DK:29:ARG:H	2.19	0.49
42:DK:85:LYS:O	42:DK:88:GLU:N	2.45	0.49
43:DN:76:ALA:O	43:DN:78:THR:N	2.44	0.49
46:DQ:44:ALA:C	46:DQ:46:LYS:N	2.65	0.49
50:DU:127:PRO:O	50:DU:128:ARG:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DX:116:LYS:O	53:DX:117:ALA:C	2.55	0.49
57:Db:42:VAL:O	57:Db:43:ARG:C	2.53	0.49
59:Dd:8:PHE:O	59:Dd:10:LYS:N	2.37	0.49
60:De:15:LYS:O	60:De:16:ALA:C	2.54	0.49
63:Dh:47:UNK:C	63:Dh:49:UNK:N	2.70	0.49
1:A1:8:U:O2'	74:A1:1976:OHX:N1	2.45	0.49
1:A1:24:U:HO2'	1:A1:25:C:H6	1.56	0.49
1:A1:71:A:H2	1:A1:72:A:H62	1.53	0.49
1:A1:96:G:N1	1:A1:97:C:C4	2.80	0.49
1:A1:151:G:H22	1:A1:163:G:N2	2.10	0.49
1:A1:198:A:O2'	1:A1:199:G:O5'	2.30	0.49
1:A1:357:G:C6	1:A1:358:U:C4	3.00	0.49
1:A1:379:U:P	1:A1:379:U:O3'	2.70	0.49
1:A1:568:G:C2	1:A1:569:C:C6	3.00	0.49
1:A1:575:C:H3'	1:A1:576:G:H8	1.78	0.49
1:A1:647:G:N1	1:A1:687:G:C6	2.81	0.49
1:A1:706:A:C5	1:A1:707:A:C6	3.00	0.49
1:A1:745:U:H2'	1:A1:745:U:O2	2.10	0.49
1:A1:1213:G:N2	1:A1:1214:U:H1'	2.27	0.49
1:A1:1493:A:N3	1:A1:1493:A:C2'	2.73	0.49
1:A1:1728:A:C6	1:A1:1729:C:C4	3.00	0.49
1:A1:1751:C:H2'	1:A1:1752:U:C6	2.47	0.49
2:AA:79:ARG:O	2:AA:82:GLY:N	2.45	0.49
3:AB:62:PRO:CA	3:AB:63:VAL:CB	2.90	0.49
21:AT:169:ILE:O	21:AT:180:ALA:HA	2.12	0.49
29:B1:309:U:C4	29:B1:2780:A:N1	2.80	0.49
29:B1:375:A:C2'	29:B1:376:G:OP1	2.60	0.49
29:B1:506:U:H2'	29:B1:507:U:C6	2.46	0.49
29:B1:578:A:O2'	29:B1:579:G:P	2.70	0.49
29:B1:642:U:H5"	29:B1:643:U:OP2	2.11	0.49
29:B1:658:G:C2	29:B1:1438:U:C2	3.00	0.49
29:B1:692:A:H2'	29:B1:693:A:O4'	2.12	0.49
29:B1:715:A:O2'	29:B1:716:A:P	2.70	0.49
29:B1:760:G:N2	29:B1:761:A:C8	2.77	0.49
29:B1:865:U:C5	29:B1:866:A:C8	3.01	0.49
29:B1:993:G:N7	29:B1:2637:A:C2	2.80	0.49
29:B1:1018:G:C2	74:B1:3529:OHX:N2	2.80	0.49
29:B1:1079:A:N1	29:B1:1080:A:C6	2.79	0.49
29:B1:1144:U:O5'	29:B1:1144:U:C6	2.61	0.49
29:B1:1265:U:H2'	29:B1:1266:G:O4'	2.12	0.49
29:B1:1278:A:C8	29:B1:1279:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1454:A:C2	29:B1:1484:U:O4	2.65	0.49
29:B1:1489:A:H5"	29:B1:1490:A:OP2	2.12	0.49
29:B1:1500:G:C6	29:B1:1517:G:C6	3.00	0.49
29:B1:1731:A:N7	29:B1:1732:U:C4	2.80	0.49
29:B1:1860:G:N7	74:B1:3595:OHX:N1	2.60	0.49
29:B1:1932:A:H2'	29:B1:1933:A:O4'	2.12	0.49
29:B1:2252:A:N3	29:B1:2253:G:C8	2.80	0.49
29:B1:2259:A:H5"	29:B1:2260:U:C5	2.47	0.49
29:B1:2504:U:C4	29:B1:2505:U:C4	3.00	0.49
29:B1:2603:G:H5"	29:B1:2604:U:OP2	2.12	0.49
29:B1:2714:G:C2	29:B1:2751:G:N1	2.80	0.49
29:B1:2876:C:C2'	29:B1:2877:G:H5'	2.43	0.49
29:B1:2910:A:H2'	29:B1:2911:A:OP2	2.12	0.49
29:B1:3284:G:C4	29:B1:3285:C:C5	3.00	0.49
29:B1:3343:G:H2'	29:B1:3344:A:C8	2.47	0.49
30:B2:11:A:C5'	30:B2:13:A:H2'	2.42	0.49
30:B2:41:G:C5'	30:B2:42:A:OP2	2.54	0.49
30:B2:80:G:H2'	30:B2:81:U:H6	1.77	0.49
34:BC:2:SER:C	34:BC:4:ARG:N	2.69	0.49
35:BD:54:GLU:C	35:BD:56:ALA:H	2.19	0.49
36:BE:103:LEU:HA	36:BE:107:ARG:CB	2.41	0.49
43:BN:95:ALA:C	43:BN:97:SER:N	2.70	0.49
44:BO:46:ASP:C	44:BO:48:ALA:H	2.19	0.49
44:BO:108:ARG:C	44:BO:110:ALA:N	2.69	0.49
45:BP:69:GLY:O	45:BP:70:PRO:C	2.55	0.49
45:BP:128:ARG:O	45:BP:129:LEU:C	2.55	0.49
45:BP:188:SER:C	45:BP:190:VAL:H	2.20	0.49
49:BT:50:LYS:C	49:BT:52:MET:N	2.66	0.49
54:BY:130:VAL:O	54:BY:134:ALA:HB3	2.12	0.49
55:BZ:17:VAL:O	55:BZ:20:SER:O	2.30	0.49
1:C1:62:A:H4'	1:C1:63:G:OP2	2.11	0.49
1:C1:180:A:C4	1:C1:181:A:N3	2.81	0.49
1:C1:209:U:O2	1:C1:209:U:H2'	2.13	0.49
1:C1:218:A:O2'	1:C1:219:A:H8	1.96	0.49
1:C1:528:U:H4'	1:C1:529:A:C5'	2.42	0.49
1:C1:618:U:O5'	1:C1:618:U:H6	1.96	0.49
1:C1:679:U:C4	1:C1:680:U:C4	3.00	0.49
1:C1:701:U:H2'	1:C1:702:G:C1'	2.41	0.49
1:C1:906:A:OP2	9:CH:51:ASP:HA	2.12	0.49
1:C1:1347:U:O3'	1:C1:1348:A:N7	2.45	0.49
1:C1:1536:G:C5	1:C1:1538:U:O2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1546:G:N2	10:CI:16:SER:HA	2.26	0.49
4:CC:14:ASP:O	4:CC:15:GLY:C	2.55	0.49
4:CC:168:ILE:HA	4:CC:188:ILE:O	2.12	0.49
6:CE:79:ARG:O	6:CE:81:VAL:CB	2.60	0.49
6:CE:96:VAL:O	6:CE:97:LEU:C	2.54	0.49
9:CH:21:ALA:H	9:CH:85:ALA:CB	2.21	0.49
9:CH:65:GLN:C	9:CH:67:VAL:H	2.20	0.49
9:CH:83:ILE:O	9:CH:117:ASP:HA	2.12	0.49
10:CI:33:PHE:O	10:CI:35:LYS:N	2.38	0.49
13:CL:79:TYR:O	13:CL:80:LYS:CB	2.59	0.49
17:CP:92:CYS:C	17:CP:94:ASN:H	2.20	0.49
29:D1:40:A:C8	54:DY:30:GLY:O	2.65	0.49
29:D1:68:C:C4	29:D1:76:G:N2	2.80	0.49
29:D1:258:G:N3	29:D1:259:C:C6	2.80	0.49
29:D1:359:U:H4’	29:D1:817:A:N6	2.27	0.49
29:D1:376:G:C5	29:D1:401:U:N3	2.81	0.49
29:D1:396:A:C2	29:D1:399:A:C4	3.00	0.49
29:D1:405:U:H5	29:D1:406:G:N7	2.07	0.49
29:D1:412:G:H2’	29:D1:413:U:H6	1.77	0.49
29:D1:523:A:C6	29:D1:524:U:C5	3.00	0.49
29:D1:699:A:C8	29:D1:699:A:C3’	2.96	0.49
29:D1:776:U:C6	29:D1:777:U:C1’	2.94	0.49
29:D1:913:A:O2’	29:D1:2146:C:O2’	2.23	0.49
29:D1:952:A:C8	29:D1:952:A:H3’	2.46	0.49
29:D1:964:G:OP2	29:D1:1115:G:O6	2.31	0.49
29:D1:1009:A:O3’	29:D1:1010:G:O4’	2.30	0.49
29:D1:1078:U:C4	29:D1:1082:U:C4	3.00	0.49
29:D1:1148:G:N2	29:D1:1156:C:C2	2.81	0.49
29:D1:1153:A:C8	29:D1:1154:A:C4	3.00	0.49
29:D1:1187:C:O5’	29:D1:1187:C:H6	1.95	0.49
29:D1:1196:C:N3	30:D2:86:U:C4	2.79	0.49
29:D1:1289:G:C2	29:D1:1290:A:C5	3.00	0.49
29:D1:1303:A:C8	29:D1:1304:A:N1	2.80	0.49
29:D1:1390:A:O4’	29:D1:1418:A:N6	2.45	0.49
29:D1:1507:G:OP2	29:D1:1507:G:O4’	2.30	0.49
29:D1:1753:G:N3	29:D1:1754:G:C8	2.80	0.49
29:D1:1836:C:O2’	29:D1:1837:U:H5’	2.13	0.49
29:D1:1909:A:N6	29:D1:1910:A:C6	2.80	0.49
29:D1:1939:G:OP1	48:DS:78:TYR:N	2.45	0.49
29:D1:2105:G:H2’	29:D1:2106:A:O4’	2.13	0.49
29:D1:2280:A:C6	29:D1:2282:U:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2289:U:C2'	29:D1:2290:C:C5'	2.89	0.49
29:D1:2385:G:C4'	29:D1:2386:A:OP1	2.37	0.49
29:D1:2468:A:H2	29:D1:2469:G:N3	2.10	0.49
29:D1:2515:A:H3'	29:D1:2516:U:C5	2.45	0.49
29:D1:2581:U:O5'	74:D1:3567:OHX:N5	2.45	0.49
29:D1:2631:U:H2'	29:D1:2632:G:H8	1.77	0.49
29:D1:2717:U:O4	29:D1:2740:A:N6	2.45	0.49
29:D1:2966:G:C6	29:D1:2967:A:C6	3.00	0.49
29:D1:3207:U:H3'	29:D1:3208:G:H5'	1.93	0.49
74:D1:3543:OHX:N5	38:DG:217:PRO:CA	2.74	0.49
30:D2:9:C:H3'	30:D2:10:C:C4'	2.42	0.49
30:D2:23:A:C2'	30:D2:24:A:H8	2.23	0.49
30:D2:43:U:H2'	30:D2:44:C:C5'	2.41	0.49
30:D2:73:C:N4	30:D2:74:C:N4	2.54	0.49
31:D3:5:U:C4	31:D3:6:U:C4	3.00	0.49
33:DB:98:VAL:C	33:DB:99:GLY:O	2.55	0.49
34:DC:221:THR:O	34:DC:272:TYR:HA	2.12	0.49
34:DC:268:GLY:O	34:DC:269:GLN:CB	2.59	0.49
34:DC:269:GLN:O	34:DC:270:ARG:O	2.30	0.49
37:DF:143:LYS:O	37:DF:146:ILE:CB	2.60	0.49
42:DK:68:HIS:O	42:DK:69:VAL:C	2.55	0.49
45:DP:37:ARG:CA	45:DP:107:GLY:HA2	2.42	0.49
49:DT:80:VAL:O	49:DT:81:GLY:O	2.30	0.49
50:DU:87:ARG:O	50:DU:90:GLY:N	2.44	0.49
53:DX:34:PRO:HA	53:DX:47:ALA:CB	2.42	0.49
54:DY:147:LEU:O	54:DY:148:ILE:CB	2.60	0.49
57:Db:121:ASN:C	57:Db:122:PRO:O	2.53	0.49
65:Dk:8:UNK:O	65:Dk:12:UNK:N	2.45	0.49
1:A1:269:G:N1	1:A1:287:G:C2	2.80	0.49
1:A1:555:A:H2	1:A1:556:A:N1	2.08	0.49
1:A1:559:C:H2'	1:A1:560:U:H6	1.77	0.49
1:A1:605:A:C8	1:A1:606:A:C2	3.01	0.49
1:A1:607:G:H4'	1:A1:608:U:C5'	2.42	0.49
1:A1:701:U:O4	1:A1:702:G:C2	2.64	0.49
1:A1:887:A:C4	1:A1:888:U:C5	3.01	0.49
1:A1:954:G:N7	1:A1:955:A:N7	2.60	0.49
1:A1:1052:U:N3	1:A1:1053:G:N7	2.60	0.49
1:A1:1112:G:C8	1:A1:1113:A:C8	3.00	0.49
1:A1:1148:C:C2	1:A1:1149:G:O6	2.65	0.49
1:A1:1180:C:C2	1:A1:1181:U:C6	3.00	0.49
1:A1:1378:U:C2	1:A1:1379:C:O4'	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1424:A:H2'	1:A1:1425:A:O4'	2.12	0.49
1:A1:1590:G:C2	1:A1:1591:C:C4	3.00	0.49
1:A1:1608:U:C2'	1:A1:1609:U:H5"	2.41	0.49
1:A1:1633:A:OP2	1:A1:1639:C:H5'	2.12	0.49
1:A1:1637:C:OP2	1:A1:1637:C:C4'	2.60	0.49
1:A1:1713:G:N2	1:A1:1714:A:N9	2.59	0.49
5:AD:163:SER:O	5:AD:165:LEU:N	2.44	0.49
6:AE:96:VAL:O	6:AE:97:LEU:C	2.54	0.49
23:Ab:49:UNK:O	23:Ab:53:UNK:N	2.45	0.49
29:B1:40:A:H3'	29:B1:41:G:C5'	2.43	0.49
29:B1:62:A:C4	29:B1:63:A:C8	3.00	0.49
29:B1:92:G:H1'	61:Bf:55:LYS:CB	2.42	0.49
29:B1:134:U:P	29:B1:134:U:H6	2.35	0.49
29:B1:152:U:HO2'	29:B1:153:U:H5'	1.75	0.49
29:B1:160:G:H3'	29:B1:160:G:OP2	2.12	0.49
29:B1:359:U:C4	29:B1:360:G:C6	3.00	0.49
29:B1:375:A:H2'	29:B1:376:G:OP1	2.10	0.49
29:B1:382:U:O3'	29:B1:384:A:OP2	2.31	0.49
29:B1:383:G:C2	29:B1:387:A:C6	3.00	0.49
29:B1:383:G:C5'	29:B1:385:A:OP2	2.60	0.49
29:B1:383:G:N2	29:B1:386:A:OP2	2.46	0.49
29:B1:499:G:H2'	29:B1:500:C:O5'	2.12	0.49
29:B1:547:G:H2'	29:B1:548:G:H5'	1.93	0.49
29:B1:590:G:O2'	29:B1:591:G:OP2	2.29	0.49
29:B1:595:G:N1	29:B1:609:G:H4'	2.22	0.49
29:B1:624:G:N2	29:B1:625:G:N9	2.60	0.49
29:B1:740:G:H2'	29:B1:740:G:N3	2.26	0.49
29:B1:752:C:O2'	29:B1:753:C:H6	1.95	0.49
29:B1:780:A:N6	29:B1:781:G:C6	2.80	0.49
29:B1:808:A:N6	29:B1:934:G:C5	2.80	0.49
29:B1:885:U:O2	29:B1:885:U:C2'	2.60	0.49
29:B1:902:G:O6	74:B1:3490:OHX:N5	2.45	0.49
29:B1:924:G:N7	29:B1:2809:C:H1'	2.27	0.49
29:B1:949:C:HO2'	29:B1:950:G:H5'	1.77	0.49
29:B1:955:U:H2'	29:B1:956:U:C5	2.45	0.49
29:B1:1065:A:H1'	29:B1:1093:A:N6	2.17	0.49
29:B1:1296:C:O2'	29:B1:1297:C:OP1	2.29	0.49
29:B1:1334:U:H5'	38:BG:207:LEU:O	2.12	0.49
29:B1:1393:A:H8	29:B1:1418:A:C5	2.30	0.49
29:B1:1489:A:OP2	29:B1:1838:G:N2	2.45	0.49
29:B1:1685:C:H2'	29:B1:1687:U:C5	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1718:G:C2’	29:B1:1719:G:H5’	2.43	0.49
29:B1:2185:G:N3	29:B1:2185:G:H2’	2.27	0.49
29:B1:2344:U:O2	29:B1:2344:U:H2’	2.11	0.49
29:B1:2360:C:H5”	29:B1:2361:A:OP2	2.12	0.49
29:B1:2393:G:H2’	29:B1:2947:G:H5”	1.93	0.49
29:B1:2405:C:C2	29:B1:2820:A:N1	2.81	0.49
29:B1:2609:A:H2’	29:B1:2610:G:H8	1.78	0.49
29:B1:2673:A:N6	29:B1:2681:U:H3	2.07	0.49
29:B1:2771:U:O2’	29:B1:2772:C:OP1	2.29	0.49
29:B1:3078:U:C1’	29:B1:3079:U:OP2	2.57	0.49
29:B1:3301:U:C2’	29:B1:3302:U:C5	2.95	0.49
29:B1:3342:A:H3’	29:B1:3343:G:O4’	2.13	0.49
29:B1:3353:G:N3	29:B1:3353:G:C2’	2.75	0.49
30:B2:13:A:N3	30:B2:13:A:H2’	2.26	0.49
30:B2:34:C:O2’	30:B2:35:C:H5”	2.11	0.49
31:B3:19:C:C4	31:B3:20:U:C4	2.99	0.49
31:B3:49:G:C2	31:B3:50:C:C6	3.00	0.49
31:B3:78:G:C6	31:B3:79:A:C6	3.00	0.49
31:B3:79:A:C3’	31:B3:80:A:H8	2.26	0.49
34:BC:44:THR:O	34:BC:45:SER:CB	2.59	0.49
34:BC:48:GLY:O	34:BC:49:TYR:CB	2.60	0.49
34:BC:93:VAL:O	34:BC:94:GLU:O	2.29	0.49
35:BD:153:SER:C	35:BD:155:ASP:N	2.67	0.49
37:BF:126:GLN:O	37:BF:128:LYS:N	2.41	0.49
38:BG:138:TYR:O	38:BG:233:GLU:O	2.31	0.49
38:BG:219:LYS:HA	38:BG:227:GLY:C	2.37	0.49
43:BN:76:ALA:O	43:BN:79:ALA:N	2.45	0.49
44:BO:85:THR:CB	44:BO:87:GLN:N	2.75	0.49
47:BR:23:ASN:O	47:BR:24:VAL:C	2.55	0.49
49:BT:68:THR:O	49:BT:70:SER:N	2.45	0.49
51:BV:47:ARG:C	51:BV:49:ILE:H	2.20	0.49
57:Bb:114:ALA:C	57:Bb:116:GLY:H	2.18	0.49
62:Bg:57:CYS:O	62:Bg:61:LYS:N	2.45	0.49
1:C1:14:C:C5’	3:CB:163:GLY:HA2	2.41	0.49
1:C1:18:C:H2’	1:C1:19:A:H8	1.75	0.49
1:C1:178:U:O2	1:C1:178:U:H2’	2.13	0.49
1:C1:203:U:C4’	1:C1:204:G:OP1	2.59	0.49
1:C1:332:U:O2	1:C1:332:U:H2’	2.12	0.49
1:C1:392:G:H2’	1:C1:393:C:O4’	2.12	0.49
1:C1:547:U:O2’	1:C1:596:C:O2	2.26	0.49
1:C1:553:G:C5	1:C1:554:C:N3	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:567:A:C6	1:C1:568:G:C4	3.00	0.49
1:C1:568:G:C4'	17:CP:90:ASP:HA	2.42	0.49
1:C1:574:G:C6	1:C1:575:C:C5	3.01	0.49
1:C1:719:U:C2'	1:C1:719:U:O2	2.60	0.49
1:C1:723:G:C5	1:C1:724:C:N3	2.80	0.49
1:C1:1003:A:C8	1:C1:1005:A:C4	2.99	0.49
1:C1:1073:G:O6	1:C1:1074:G:N1	2.43	0.49
1:C1:1120:U:O2	1:C1:1121:C:C6	2.65	0.49
1:C1:1339:C:O2'	1:C1:1340:U:C5'	2.60	0.49
1:C1:1377:U:O2	1:C1:1378:U:C4'	2.60	0.49
1:C1:1384:A:H2'	1:C1:1385:G:H8	1.76	0.49
1:C1:1402:G:C4	1:C1:1403:C:C6	3.00	0.49
1:C1:1573:A:H4'	1:C1:1574:G:OP2	2.12	0.49
1:C1:1683:C:OP2	1:C1:1684:U:OP2	2.31	0.49
1:C1:1797:A:C2	1:C1:1799:U:O4	2.64	0.49
3:CB:163:GLY:O	3:CB:164:SER:C	2.56	0.49
3:CB:230:TRP:C	3:CB:232:GLU:H	2.20	0.49
4:CC:66:ILE:O	4:CC:67:ASN:C	2.53	0.49
4:CC:117:ARG:O	4:CC:118:ALA:C	2.55	0.49
13:CL:17:LEU:O	13:CL:21:ASN:O	2.30	0.49
15:CN:12:GLN:CB	15:CN:14:GLN:O	2.60	0.49
21:CT:236:ALA:O	21:CT:237:GLN:CB	2.60	0.49
29:D1:13:A:C2	29:D1:15:C:H3'	2.48	0.49
29:D1:23:A:N3	29:D1:23:A:C2'	2.74	0.49
29:D1:49:A:N6	29:D1:279:U:O2'	2.45	0.49
29:D1:99:A:H1'	29:D1:281:G:O6	2.13	0.49
29:D1:103:G:O2'	29:D1:104:G:H5'	2.12	0.49
29:D1:140:C:C2	29:D1:141:C:C5	3.00	0.49
29:D1:258:G:O2'	29:D1:259:C:P	2.70	0.49
29:D1:361:A:C2'	29:D1:362:U:O4'	2.60	0.49
29:D1:533:A:N3	29:D1:534:U:C4	2.81	0.49
29:D1:797:U:H2'	29:D1:798:G:H8	1.77	0.49
29:D1:1084:A:N7	29:D1:1085:A:N6	2.61	0.49
29:D1:1167:U:C2'	29:D1:1168:U:O5'	2.60	0.49
29:D1:1169:A:C2	29:D1:1330:A:C6	3.00	0.49
29:D1:1174:G:C2	29:D1:1175:C:C4	3.00	0.49
29:D1:1232:C:O2'	73:DM:35:SER:C	2.56	0.49
29:D1:1269:U:N3	29:D1:1271:A:N6	2.56	0.49
29:D1:1289:G:O2'	29:D1:1290:A:P	2.70	0.49
29:D1:1685:C:C5	29:D1:1687:U:C4	3.00	0.49
29:D1:1690:C:C4	29:D1:1691:U:C4	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2169:G:O6	74:D1:3492:OHX:N5	2.45	0.49
29:D1:2252:A:C4	29:D1:2253:G:N7	2.80	0.49
29:D1:2301:U:O2'	29:D1:2302:G:H5'	2.12	0.49
29:D1:2414:G:N2	29:D1:2415:C:H1'	2.28	0.49
29:D1:2512:C:O2'	29:D1:2592:G:N2	2.45	0.49
29:D1:2607:G:C6	29:D1:2608:G:N7	2.81	0.49
29:D1:2699:G:C8	29:D1:2699:G:C5'	2.88	0.49
29:D1:2730:G:C4	29:D1:2731:U:C6	3.01	0.49
29:D1:2749:G:C5	29:D1:2750:U:C5	3.00	0.49
29:D1:2828:G:C2'	29:D1:2829:U:O5'	2.60	0.49
29:D1:2865:U:O2'	29:D1:2866:U:H5'	2.12	0.49
29:D1:3270:U:H4'	29:D1:3271:G:O5'	2.12	0.49
29:D1:3322:A:C6	29:D1:3323:A:C6	3.00	0.49
29:D1:3351:U:O2	29:D1:3351:U:O4'	2.30	0.49
30:D2:27:A:C6	30:D2:54:U:O4	2.65	0.49
31:D3:5:U:C5	31:D3:6:U:C4	3.01	0.49
31:D3:48:A:C5	31:D3:51:G:N7	2.80	0.49
31:D3:53:A:C4	31:D3:54:A:N7	2.81	0.49
34:DC:50:LYS:O	34:DC:332:ARG:HA	2.12	0.49
35:DD:89:ALA:O	35:DD:90:PHE:C	2.54	0.49
35:DD:103:THR:O	35:DD:104:LYS:CB	2.60	0.49
35:DD:149:PRO:O	35:DD:150:LEU:CB	2.59	0.49
37:DF:20:LYS:C	37:DF:112:THR:HA	2.35	0.49
41:DJ:98:ARG:CB	41:DJ:120:GLY:HA3	2.42	0.49
41:DJ:172:GLY:C	41:DJ:174:THR:H	2.20	0.49
45:DP:93:ALA:O	45:DP:94:ARG:O	2.30	0.49
47:DR:77:ALA:C	47:DR:79:LYS:N	2.70	0.49
52:DW:50:ALA:O	52:DW:51:VAL:CB	2.59	0.49
54:DY:111:LYS:CA	54:DY:128:ARG:CB	2.84	0.49
56:Da:41:LYS:O	56:Da:45:GLY:HA2	2.13	0.49
1:A1:39:A:N7	1:A1:467:G:N1	2.57	0.49
1:A1:55:A:N7	1:A1:426:G:C6	2.80	0.49
1:A1:169:A:C5	1:A1:171:A:N6	2.81	0.49
1:A1:257:A:C2'	1:A1:258:C:C5'	2.87	0.49
1:A1:297:U:H2'	1:A1:298:C:H5'	1.94	0.49
1:A1:359:A:OP1	1:A1:359:A:N3	2.45	0.49
1:A1:402:C:N3	1:A1:403:G:O4'	2.45	0.49
1:A1:618:U:O5'	1:A1:618:U:H6	1.95	0.49
1:A1:737:A:N3	1:A1:738:G:C5	2.80	0.49
1:A1:746:A:C6	1:A1:806:A:N1	2.81	0.49
1:A1:753:A:C6	1:A1:754:A:N6	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1002:G:C6	1:A1:1003:A:N1	2.81	0.49
1:A1:1146:G:H8	1:A1:1635:A:N3	2.10	0.49
1:A1:1276:U:H5'	4:AC:147:ALA:HB2	1.93	0.49
1:A1:1455:G:C6	1:A1:1456:C:N3	2.80	0.49
1:A1:1575:G:C6	1:A1:1576:A:C5	3.01	0.49
1:A1:1591:C:C2'	1:A1:1592:A:H8	2.19	0.49
1:A1:1653:C:C4	1:A1:1654:G:C5	3.00	0.49
8:AG:77:SER:C	8:AG:79:GLY:N	2.67	0.49
9:AH:13:VAL:N	9:AH:14:PHE:CB	2.75	0.49
9:AH:39:ILE:O	9:AH:40:ALA:CB	2.59	0.49
11:AJ:91:ALA:H	11:AJ:97:VAL:CB	2.26	0.49
17:AP:118:PRO:O	17:AP:120:VAL:N	2.45	0.49
21:AT:118:LYS:O	21:AT:119:ALA:HB2	2.13	0.49
24:Ac:15:UNK:HA	24:Ac:18:UNK:CB	2.42	0.49
29:B1:13:A:H2	29:B1:15:C:C2'	2.25	0.49
29:B1:43:A:C4'	29:B1:43:A:OP1	2.61	0.49
29:B1:61:A:C6	29:B1:62:A:C4	3.00	0.49
29:B1:88:A:C8	29:B1:88:A:H3'	2.48	0.49
29:B1:257:U:C2	29:B1:258:G:N7	2.80	0.49
29:B1:385:A:N3	29:B1:386:A:N7	2.60	0.49
29:B1:421:G:O6	29:B1:2383:C:O2	2.29	0.49
29:B1:521:A:C8	29:B1:572:A:C6	3.00	0.49
29:B1:549:U:O4	74:B1:3513:OHX:N1	2.45	0.49
29:B1:552:G:C6	29:B1:553:U:C4	3.00	0.49
29:B1:676:G:H5'	29:B1:679:U:OP1	2.12	0.49
29:B1:701:G:O2'	29:B1:702:C:H5'	2.11	0.49
29:B1:752:C:O2'	29:B1:753:C:C6	2.66	0.49
29:B1:840:C:O2'	29:B1:841:A:H5'	2.12	0.49
29:B1:945:C:N3	29:B1:946:U:C5	2.80	0.49
29:B1:1023:C:H3'	29:B1:1024:G:H5"	1.95	0.49
29:B1:1119:C:H2'	29:B1:1119:C:O2	2.11	0.49
29:B1:1264:G:N2	29:B1:1265:U:C5	2.80	0.49
29:B1:1302:A:C4	29:B1:2887:A:C6	3.00	0.49
29:B1:1340:G:C2	29:B1:1341:U:C4	3.01	0.49
29:B1:1435:A:C8	29:B1:1437:C:N1	2.81	0.49
29:B1:1526:U:O2'	29:B1:1595:U:H5'	2.13	0.49
29:B1:1535:A:H5"	29:B1:1536:G:OP2	2.12	0.49
29:B1:1643:A:H5"	29:B1:1822:C:H5"	1.94	0.49
29:B1:1678:G:C2	29:B1:1679:A:C5	3.00	0.49
29:B1:1679:A:C2	29:B1:1680:G:C8	3.00	0.49
29:B1:1780:G:C2	29:B1:1781:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1783:U:C2	29:B1:1784:G:C8	3.00	0.49
29:B1:1894:U:C2	29:B1:1895:A:C8	3.01	0.49
29:B1:1895:A:N1	29:B1:2341:A:C6	2.80	0.49
29:B1:1942:U:C1'	29:B1:3342:A:C2	2.95	0.49
29:B1:2135:U:C2	29:B1:2136:C:C5	3.00	0.49
29:B1:2206:G:N2	29:B1:2207:A:C8	2.81	0.49
29:B1:2375:G:N2	29:B1:2377:G:C8	2.81	0.49
29:B1:2378:C:O2	29:B1:2378:C:C2'	2.60	0.49
29:B1:2413:A:O2'	29:B1:2414:G:H5'	2.13	0.49
29:B1:2674:A:H1'	42:BK:108:GLU:CB	2.42	0.49
29:B1:2679:A:O4'	29:B1:2679:A:OP2	2.30	0.49
29:B1:2904:U:C3'	29:B1:2904:U:C2	2.95	0.49
29:B1:3087:A:H2'	29:B1:3088:G:H8	1.73	0.49
29:B1:3189:G:C4	29:B1:3190:C:C6	3.00	0.49
29:B1:3228:C:C6	29:B1:3229:G:N7	2.79	0.49
29:B1:3364:C:C2'	29:B1:3365:U:H5'	2.42	0.49
31:B3:14:C:C5	31:B3:15:G:N7	2.80	0.49
31:B3:53:A:C6	31:B3:54:A:C6	3.00	0.49
31:B3:67:U:OP2	31:B3:67:U:H6	1.95	0.49
31:B3:70:G:N7	31:B3:71:A:C6	2.79	0.49
31:B3:77:A:H4'	31:B3:78:G:OP1	2.11	0.49
34:BC:182:GLN:O	34:BC:183:LEU:C	2.55	0.49
40:BI:135:GLU:O	40:BI:145:VAL:O	2.30	0.49
44:BO:100:ALA:O	44:BO:103:GLU:N	2.46	0.49
45:BP:92:THR:O	45:BP:95:GLY:N	2.45	0.49
57:Bb:97:ALA:O	57:Bb:98:HIS:C	2.55	0.49
69:Bp:242:UNK:O	69:Bp:243:UNK:CB	2.59	0.49
1:C1:72:A:C2	1:C1:73:U:C6	3.00	0.49
1:C1:87:C:H3'	1:C1:88:U:C5'	2.31	0.49
1:C1:228:G:C6	1:C1:229:U:N3	2.79	0.49
1:C1:288:A:N3	1:C1:289:U:C5	2.72	0.49
1:C1:337:G:C5'	1:C1:338:C:C5	2.95	0.49
1:C1:341:A:C5	1:C1:342:C:C5	3.00	0.49
1:C1:555:A:H2	1:C1:556:A:N1	2.10	0.49
1:C1:618:U:O2'	1:C1:619:A:H5"	2.12	0.49
1:C1:848:C:N3	1:C1:849:C:C4	2.80	0.49
1:C1:1000:C:C6	1:C1:1002:G:OP2	2.65	0.49
1:C1:1062:A:C2	1:C1:1063:U:H1'	2.47	0.49
1:C1:1129:U:H3'	1:C1:1130:G:H8	1.76	0.49
1:C1:1142:A:C5'	1:C1:1142:A:H8	2.26	0.49
1:C1:1241:G:N3	1:C1:1243:G:H8	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1242:A:H4'	10:CI:78:THR:CA	2.40	0.49
1:C1:1586:A:C6	1:C1:1611:A:N3	2.81	0.49
4:CC:174:HIS:O	4:CC:175:VAL:CB	2.61	0.49
7:CF:85:VAL:O	7:CF:86:ILE:O	2.30	0.49
9:CH:97:GLY:HA2	9:CH:100:ALA:HB3	1.94	0.49
10:CI:86:VAL:CB	10:CI:87:PRO:CA	2.89	0.49
11:CJ:98:ASP:C	11:CJ:100:GLN:H	2.21	0.49
21:CT:53:LYS:C	21:CT:55:GLY:N	2.67	0.49
23:Cb:74:UNK:O	23:Cb:75:UNK:C	2.61	0.49
29:D1:13:A:H2'	29:D1:13:A:N3	2.26	0.49
29:D1:69:C:C4	29:D1:70:A:H8	2.29	0.49
29:D1:213:A:N3	29:D1:214:G:H1'	2.28	0.49
29:D1:263:C:OP1	29:D1:264:G:OP1	2.29	0.49
29:D1:331:G:C2'	29:D1:332:C:H5"	2.43	0.49
29:D1:334:A:O2'	29:D1:335:G:O5'	2.29	0.49
29:D1:380:U:C4	29:D1:381:U:O4	2.65	0.49
29:D1:392:G:N7	74:D1:3523:OHX:N1	2.60	0.49
29:D1:425:G:C6	29:D1:635:G:C6	3.00	0.49
29:D1:503:C:O2'	29:D1:504:A:H5'	2.12	0.49
29:D1:625:G:C2'	29:D1:626:U:O5'	2.59	0.49
29:D1:668:G:H2'	29:D1:669:U:O4'	2.12	0.49
29:D1:682:U:O5'	29:D1:683:U:OP2	2.30	0.49
29:D1:716:A:C8	29:D1:717:C:O4'	2.65	0.49
29:D1:774:G:C2'	29:D1:775:A:C5'	2.84	0.49
29:D1:848:A:C2	29:D1:849:C:H1'	2.47	0.49
29:D1:877:C:H2'	29:D1:878:G:C5'	2.42	0.49
29:D1:912:G:H21	29:D1:915:A:H62	1.59	0.49
29:D1:934:G:C4	29:D1:935:U:C6	3.01	0.49
29:D1:998:A:O2'	29:D1:999:G:H5'	2.12	0.49
29:D1:1019:G:O6	29:D1:1033:U:O4	2.30	0.49
29:D1:1193:A:H8	29:D1:1194:G:C2	2.24	0.49
29:D1:1225:A:O2'	29:D1:1226:G:P	2.70	0.49
29:D1:1596:C:H2'	29:D1:1597:C:H6	1.72	0.49
29:D1:1724:U:H2'	29:D1:1725:C:H6	1.75	0.49
29:D1:1760:A:C6	29:D1:1766:G:C5	3.00	0.49
29:D1:1833:G:N3	29:D1:1834:U:O2	2.46	0.49
29:D1:1884:A:N3	29:D1:1885:U:O2	2.45	0.49
29:D1:1919:G:N2	29:D1:1920:U:O2	2.46	0.49
29:D1:1927:G:N3	29:D1:1927:G:C3'	2.71	0.49
29:D1:2197:C:H4'	29:D1:2198:A:C8	2.48	0.49
29:D1:2200:U:C2	29:D1:2201:G:C8	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2247:G:C6	29:D1:2248:C:C4	3.00	0.49
29:D1:2356:A:N3	29:D1:2356:A:H2'	2.27	0.49
29:D1:2369:G:N2	29:D1:2379:U:C2	2.80	0.49
29:D1:2376:G:O2'	29:D1:2377:G:H5'	2.13	0.49
29:D1:2386:A:N7	29:D1:2994:A:C6	2.81	0.49
29:D1:2471:U:H4'	32:DA:23:THR:N	2.27	0.49
29:D1:2731:U:H2'	29:D1:2731:U:O2	2.12	0.49
29:D1:2945:G:N3	29:D1:2945:G:O4'	2.45	0.49
29:D1:2994:A:H2'	29:D1:2995:A:C8	2.46	0.49
29:D1:3030:G:C2'	29:D1:3031:G:O4'	2.60	0.49
29:D1:3079:U:H3'	29:D1:3080:G:H5"	1.94	0.49
29:D1:3171:U:C1'	29:D1:3172:A:OP2	2.55	0.49
29:D1:3341:U:O3'	29:D1:3343:G:N2	2.44	0.49
29:D1:3377:G:O2'	29:D1:3378:C:P	2.68	0.49
29:D1:3388:C:O5'	29:D1:3388:C:H6	1.95	0.49
30:D2:11:A:O3'	30:D2:68:C:H4'	2.11	0.49
30:D2:26:C:O2'	30:D2:27:A:O4'	2.30	0.49
30:D2:30:G:C2'	30:D2:31:U:O5'	2.60	0.49
30:D2:41:G:N3	30:D2:41:G:C2'	2.72	0.49
31:D3:39:G:H4'	31:D3:40:A:H5"	1.94	0.49
31:D3:68:G:C5	31:D3:69:U:C5	3.00	0.49
33:DB:111:THR:HA	33:DB:134:VAL:HA	1.94	0.49
35:DD:117:GLU:C	35:DD:119:ARG:N	2.67	0.49
39:DH:232:HIS:O	39:DH:233:TRP:CB	2.60	0.49
41:DJ:155:ALA:O	41:DJ:158:LYS:O	2.29	0.49
43:DN:73:PRO:C	43:DN:75:GLY:N	2.70	0.49
45:DP:24:ALA:HA	45:DP:27:LEU:CB	2.43	0.49
46:DQ:105:LYS:O	46:DQ:107:LEU:N	2.45	0.49
55:DZ:76:GLU:O	55:DZ:78:GLY:N	2.45	0.49
62:Dg:57:CYS:O	62:Dg:61:LYS:N	2.45	0.49
1:A1:63:G:C8	1:A1:63:G:OP1	2.66	0.49
1:A1:100:A:N1	1:A1:101:U:C4	2.81	0.49
1:A1:100:A:H2'	1:A1:101:U:O4'	2.12	0.49
1:A1:203:U:C4'	1:A1:204:G:OP1	2.60	0.49
1:A1:327:U:N3	1:A1:328:A:N7	2.61	0.49
1:A1:635:A:C4	1:A1:863:A:N7	2.81	0.49
1:A1:709:C:H2'	1:A1:710:U:O4'	2.11	0.49
1:A1:778:G:N2	1:A1:783:G:C4	2.80	0.49
1:A1:865:A:N1	1:A1:965:U:O4	2.46	0.49
1:A1:947:U:H2'	1:A1:948:G:O4'	2.12	0.49
1:A1:948:G:H2'	1:A1:949:C:H6	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1043:A:H2'	1:A1:1044:U:C6	2.47	0.49
1:A1:1092:A:N9	1:A1:1094:G:C8	2.79	0.49
1:A1:1204:A:C5	1:A1:1205:C:N3	2.80	0.49
1:A1:1227:A:C8	1:A1:1229:G:OP2	2.66	0.49
1:A1:1285:U:C2	1:A1:1286:U:H5	2.30	0.49
1:A1:1292:G:C4	1:A1:1293:U:C5	3.00	0.49
1:A1:1378:U:H3'	1:A1:1379:C:C4'	2.42	0.49
1:A1:1580:C:H2'	1:A1:1581:C:H6	1.71	0.49
1:A1:1584:G:N3	1:A1:1584:G:H3'	2.28	0.49
1:A1:1584:G:N1	11:AJ:125:GLU:N	2.61	0.49
1:A1:1620:C:H2'	1:A1:1620:C:O2	2.12	0.49
1:A1:1636:C:N4	1:A1:1638:G:N2	2.60	0.49
1:A1:1689:A:N6	1:A1:1715:G:C2	2.81	0.49
1:A1:1747:G:H2'	1:A1:1748:G:H8	1.78	0.49
5:AD:64:VAL:CA	5:AD:89:ILE:HA	2.40	0.49
5:AD:133:VAL:O	5:AD:136:ALA:HB3	2.13	0.49
5:AD:166:ARG:O	5:AD:168:VAL:N	2.45	0.49
6:AE:90:LYS:HA	6:AE:91:LYS:CB	2.42	0.49
20:AS:49:ASP:N	20:AS:50:ILE:CA	2.41	0.49
21:AT:84:SER:C	21:AT:86:ASP:H	2.20	0.49
29:B1:22:G:N3	29:B1:23:A:C8	2.79	0.49
29:B1:338:A:H3'	29:B1:339:C:C5'	2.43	0.49
29:B1:543:C:H2'	29:B1:543:C:O2	2.12	0.49
29:B1:556:U:C5	29:B1:557:A:H2	2.30	0.49
29:B1:603:A:C8	29:B1:603:A:O5'	2.66	0.49
29:B1:687:U:O2'	29:B1:688:G:H5'	2.12	0.49
29:B1:717:C:C5	29:B1:721:G:OP1	2.66	0.49
29:B1:721:G:N3	29:B1:721:G:C3'	2.72	0.49
29:B1:865:U:O4	29:B1:866:A:C5	2.64	0.49
29:B1:1194:G:C4	29:B1:1309:U:C2	3.01	0.49
29:B1:1376:C:H5'	29:B1:1407:A:C6	2.48	0.49
29:B1:1461:A:C6	29:B1:1462:A:C5	3.00	0.49
29:B1:1515:A:C4	29:B1:1516:C:C5	3.00	0.49
29:B1:1587:A:C2	29:B1:1590:G:N9	2.81	0.49
29:B1:1847:A:C2	29:B1:1849:C:C2	3.01	0.49
29:B1:1908:A:C6	29:B1:1909:A:C6	3.01	0.49
29:B1:2175:U:H4'	29:B1:2176:U:OP2	2.12	0.49
29:B1:2374:C:C4	29:B1:2941:A:C4	3.00	0.49
29:B1:2976:A:O5'	29:B1:2976:A:H8	1.96	0.49
29:B1:3137:C:H3'	29:B1:3138:U:H6	1.77	0.49
29:B1:3262:U:C2	29:B1:3263:G:C8	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3268:A:H1'	29:B1:3269:U:OP1	2.11	0.49
29:B1:3367:C:H2'	29:B1:3368:U:H5"	1.91	0.49
30:B2:26:C:HO2'	30:B2:27:A:C4'	2.25	0.49
30:B2:30:G:C5	30:B2:31:U:C2	3.00	0.49
30:B2:87:G:C2	30:B2:95:A:C6	3.00	0.49
33:BB:172:GLY:N	62:Bg:68:ALA:HB2	2.27	0.49
34:BC:159:ARG:HA	34:BC:181:ILE:O	2.12	0.49
35:BD:207:VAL:O	35:BD:225:VAL:HA	2.13	0.49
38:BG:124:LEU:O	38:BG:125:GLU:C	2.54	0.49
38:BG:224:ILE:O	38:BG:226:GLY:N	2.46	0.49
39:BH:123:GLN:HA	39:BH:126:SER:CB	2.42	0.49
47:BR:142:GLY:O	47:BR:143:PRO:CB	2.60	0.49
56:Ba:55:LEU:O	56:Ba:59:ILE:N	2.46	0.49
1:C1:16:G:O2'	1:C1:17:C:O4'	2.30	0.49
1:C1:55:A:C5	1:C1:426:G:C6	3.00	0.49
1:C1:64:U:H5'	1:C1:65:A:P	2.52	0.49
1:C1:103:A:C5	1:C1:360:A:N1	2.80	0.49
1:C1:123:G:C6	1:C1:124:A:C5	3.01	0.49
1:C1:382:C:H2'	1:C1:382:C:O2	2.12	0.49
1:C1:388:G:N3	1:C1:389:G:C8	2.80	0.49
1:C1:415:C:O2	1:C1:419:G:C2	2.65	0.49
1:C1:416:A:H5'	1:C1:417:A:N7	2.28	0.49
1:C1:559:C:H2'	1:C1:560:U:H6	1.78	0.49
1:C1:613:G:H4'	1:C1:614:C:O5'	2.13	0.49
1:C1:624:G:C4	1:C1:1027:A:C2	3.01	0.49
1:C1:629:U:O2	1:C1:971:A:C4	2.65	0.49
1:C1:839:U:O2	1:C1:839:U:O4'	2.30	0.49
1:C1:975:C:H2'	1:C1:976:G:C8	2.45	0.49
1:C1:1051:G:H2'	1:C1:1052:U:C2	2.48	0.49
1:C1:1230:A:OP1	1:C1:1256:A:H5'	2.13	0.49
1:C1:1328:G:OP2	1:C1:1330:G:O6	2.30	0.49
1:C1:1348:A:C8	1:C1:1349:G:H5'	2.48	0.49
1:C1:1351:G:C6	1:C1:1352:G:C5	3.00	0.49
1:C1:1429:G:C5	1:C1:1430:U:C5	3.00	0.49
1:C1:1532:U:H2'	1:C1:1533:C:H6	1.78	0.49
1:C1:1561:U:H2'	1:C1:1562:G:H8	1.77	0.49
1:C1:1585:U:N3	1:C1:1611:A:C2	2.80	0.49
1:C1:1676:U:H2'	1:C1:1677:C:C6	2.48	0.49
1:C1:1720:G:C4	1:C1:1721:A:N9	2.81	0.49
2:CA:173:ILE:C	2:CA:175:TYR:N	2.66	0.49
4:CC:121:GLY:O	4:CC:124:ARG:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CE:103:ASP:C	6:CE:105:LEU:N	2.66	0.49
10:CI:69:GLU:C	10:CI:71:GLU:H	2.20	0.49
21:CT:169:ILE:O	21:CT:180:ALA:HA	2.12	0.49
29:D1:13:A:C2	29:D1:15:C:H2'	2.47	0.49
29:D1:109:A:H1'	29:D1:110:G:H1'	1.94	0.49
29:D1:125:C:N4	74:D1:3447:OHX:N3	2.58	0.49
29:D1:187:A:C1'	29:D1:211:A:N6	2.69	0.49
29:D1:384:A:O4'	29:D1:1465:A:C8	2.65	0.49
29:D1:396:A:O2'	29:D1:397:A:P	2.71	0.49
29:D1:414:U:C2'	29:D1:415:G:H5'	2.43	0.49
29:D1:502:U:O2'	29:D1:503:C:H5'	2.12	0.49
29:D1:534:U:OP2	29:D1:534:U:H5	1.91	0.49
29:D1:543:C:C2'	29:D1:544:C:H5'	2.42	0.49
29:D1:580:C:H5"	29:D1:581:U:OP2	2.12	0.49
29:D1:764:U:OP2	29:D1:764:U:H6	1.94	0.49
29:D1:776:U:O5'	29:D1:777:U:H5"	2.12	0.49
29:D1:818:C:C2'	29:D1:819:U:H5'	2.41	0.49
29:D1:836:A:C1'	29:D1:858:A:C2	2.91	0.49
29:D1:910:G:H3'	29:D1:911:C:H6	1.77	0.49
29:D1:965:A:OP1	74:D1:3568:OHX:N3	2.45	0.49
29:D1:1168:U:O4	29:D1:1330:A:N7	2.45	0.49
29:D1:1300:G:O6	29:D1:1301:A:N6	2.46	0.49
29:D1:1358:C:H2'	29:D1:1359:C:H6	1.77	0.49
29:D1:1400:G:C2	29:D1:1401:A:C8	3.01	0.49
29:D1:1451:C:O2	29:D1:1451:C:H2'	2.11	0.49
29:D1:1489:A:H3'	29:D1:1490:A:H8	1.76	0.49
29:D1:1799:A:O2'	29:D1:1800:A:H5'	2.12	0.49
29:D1:1887:A:H4'	34:DC:227:GLU:HA	1.92	0.49
29:D1:2254:U:O2'	29:D1:2255:A:P	2.70	0.49
29:D1:2308:C:OP1	29:D1:2309:A:H2'	2.13	0.49
29:D1:2325:G:N3	29:D1:2326:A:C8	2.80	0.49
29:D1:2400:G:O2'	29:D1:2401:A:H5"	2.13	0.49
29:D1:2554:A:C2	33:DB:85:GLY:O	2.65	0.49
29:D1:2594:C:H2'	29:D1:2595:A:H8	1.76	0.49
29:D1:2622:C:H2'	29:D1:2623:G:O4'	2.12	0.49
29:D1:2630:C:C4	29:D1:2649:A:N1	2.80	0.49
29:D1:2680:A:N6	42:DK:55:ARG:C	2.71	0.49
29:D1:2727:A:N1	29:D1:2729:U:H5	2.10	0.49
29:D1:2916:U:C5	29:D1:2935:U:O2'	2.60	0.49
29:D1:3011:A:H1'	29:D1:3012:A:C4'	2.42	0.49
29:D1:3129:A:H2'	29:D1:3129:A:N3	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3150:A:C3'	29:D1:3151:U:C5'	2.84	0.49
29:D1:3259:U:O2'	29:D1:3260:G:N7	2.45	0.49
30:D2:9:C:OP2	30:D2:9:C:H6	1.94	0.49
30:D2:11:A:H8	30:D2:13:A:C2'	2.25	0.49
30:D2:48:U:C6	30:D2:49:G:C6	3.01	0.49
30:D2:79:A:C2	30:D2:80:G:N9	2.80	0.49
31:D3:14:C:C5	31:D3:15:G:N7	2.80	0.49
31:D3:16:G:O6	74:D3:202:OHX:N5	2.46	0.49
44:DO:136:ASP:O	44:DO:137:PRO:C	2.55	0.49
45:DP:128:ARG:O	45:DP:129:LEU:O	2.31	0.49
45:DP:166:GLU:C	45:DP:168:TYR:N	2.70	0.49
48:DS:59:SER:O	48:DS:61:SER:N	2.38	0.49
51:DV:33:ASN:O	51:DV:34:SER:C	2.54	0.49
51:DV:39:LEU:O	51:DV:40:PHE:C	2.54	0.49
62:Dg:52:ALA:O	62:Dg:53:GLY:C	2.55	0.49
63:Dh:43:UNK:O	63:Dh:44:UNK:C	2.60	0.49
63:Dh:49:UNK:O	63:Dh:51:UNK:N	2.43	0.49
1:A1:43:A:H4'	1:A1:99:C:P	2.53	0.49
1:A1:141:U:O2	1:A1:141:U:O4'	2.30	0.49
1:A1:244:A:H2'	1:A1:245:U:C6	2.47	0.49
1:A1:520:A:C5	1:A1:521:A:N7	2.80	0.49
1:A1:555:A:H4'	1:A1:556:A:OP2	2.09	0.49
1:A1:651:G:C2	1:A1:684:A:N7	2.81	0.49
1:A1:773:C:O2	1:A1:774:A:C8	2.65	0.49
1:A1:783:G:C2'	1:A1:784:C:O5'	2.61	0.49
1:A1:796:A:C2'	1:A1:797:G:H5'	2.43	0.49
1:A1:837:G:H2'	1:A1:838:G:C8	2.47	0.49
1:A1:838:G:C6	1:A1:839:U:C4	3.00	0.49
1:A1:1136:U:H2'	1:A1:1137:A:H5'	1.94	0.49
1:A1:1146:G:C6	1:A1:1147:A:C5	3.01	0.49
1:A1:1219:A:C5'	1:A1:1220:C:C5	2.84	0.49
1:A1:1268:G:H1'	1:A1:1448:G:H5"	1.95	0.49
1:A1:1314:U:HO2'	1:A1:1315:U:P	2.33	0.49
1:A1:1419:G:C2'	1:A1:1420:C:O5'	2.61	0.49
1:A1:1420:C:C6	1:A1:1420:C:H3'	2.47	0.49
1:A1:1648:A:H2'	1:A1:1649:G:O4'	2.12	0.49
1:A1:1737:G:C6	1:A1:1738:U:C4	3.01	0.49
6:AE:94:ASP:O	6:AE:95:TYR:C	2.55	0.49
11:AJ:10:PHE:N	11:AJ:18:ALA:O	2.46	0.49
11:AJ:54:LEU:C	11:AJ:56:GLY:H	2.21	0.49
13:AL:79:TYR:O	13:AL:80:LYS:CB	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:118:PRO:O	14:AM:119:LYS:O	2.30	0.49
29:B1:40:A:C3'	29:B1:41:G:C5'	2.91	0.49
29:B1:88:A:H8	29:B1:88:A:O5'	1.95	0.49
29:B1:167:U:H2'	29:B1:168:U:H6	1.78	0.49
29:B1:242:C:H2'	29:B1:243:G:O5'	2.12	0.49
29:B1:311:C:C4	29:B1:312:C:C4	3.00	0.49
29:B1:326:U:O4	70:Bq:3:UNK:N	2.45	0.49
29:B1:327:A:H5'	29:B1:327:A:C8	2.48	0.49
29:B1:337:G:H21	35:BD:50:TYR:CB	2.25	0.49
29:B1:346:C:H5	29:B1:348:A:H5"	1.77	0.49
29:B1:656:A:C6	29:B1:1440:G:N1	2.80	0.49
29:B1:847:A:C4	29:B1:848:A:N7	2.81	0.49
29:B1:1066:G:H2'	29:B1:1067:U:C6	2.48	0.49
29:B1:1084:A:C6	29:B1:1085:A:C6	3.01	0.49
29:B1:1109:U:H3'	29:B1:1110:U:H6	1.78	0.49
29:B1:1110:U:H2'	29:B1:1110:U:O2	2.12	0.49
29:B1:1117:G:H2'	29:B1:1118:C:H6	1.76	0.49
29:B1:1130:A:HO2'	29:B1:1131:G:H3'	1.78	0.49
29:B1:1237:G:H5"	29:B1:1238:C:H6	1.78	0.49
29:B1:1282:G:O2'	29:B1:1283:C:H5'	2.11	0.49
29:B1:1285:G:C2'	29:B1:1286:A:O5'	2.59	0.49
29:B1:1360:C:O2	29:B1:1360:C:H2'	2.12	0.49
29:B1:1366:A:C2	29:B1:1367:G:C5	3.00	0.49
29:B1:1394:A:C8	29:B1:1394:A:C3'	2.96	0.49
29:B1:1542:G:C2	29:B1:1543:G:C5	3.00	0.49
29:B1:1678:G:C4'	29:B1:1756:C:H4'	2.43	0.49
29:B1:1765:U:O5'	29:B1:1765:U:H6	1.95	0.49
29:B1:1868:G:C6	29:B1:1869:C:C4	3.00	0.49
29:B1:1931:U:C2	29:B1:2121:G:N3	2.80	0.49
29:B1:2198:A:O2'	29:B1:2199:G:H5'	2.13	0.49
29:B1:2255:A:N1	29:B1:2258:U:H5"	2.28	0.49
29:B1:2311:G:H2'	29:B1:2312:A:O5'	2.13	0.49
29:B1:2357:A:C2	29:B1:2983:C:H5	2.31	0.49
29:B1:2625:C:O2	29:B1:2627:C:C5	2.66	0.49
29:B1:2771:U:H2'	29:B1:2772:C:O4'	2.13	0.49
29:B1:2856:G:C2	29:B1:2857:C:C4	3.00	0.49
29:B1:3044:G:C6	29:B1:3098:G:C6	3.01	0.49
29:B1:3142:A:O2'	29:B1:3143:C:OP1	2.21	0.49
29:B1:3218:A:C3'	29:B1:3220:G:OP2	2.61	0.49
29:B1:3394:U:O2'	29:B1:3395:G:H8	1.95	0.49
30:B2:55:A:O2'	30:B2:56:A:O4'	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:9:A:H5'	31:B3:10:A:OP2	2.13	0.49
31:B3:92:A:N3	31:B3:92:A:C2'	2.73	0.49
36:BE:43:LYS:HA	49:BT:70:SER:H	1.77	0.49
36:BE:107:ARG:O	36:BE:110:LEU:O	2.30	0.49
36:BE:141:PRO:C	36:BE:143:LYS:N	2.69	0.49
39:BH:190:VAL:O	39:BH:191:ASN:C	2.55	0.49
40:BI:170:LYS:O	40:BI:172:ILE:N	2.45	0.49
42:BK:76:ALA:C	42:BK:78:GLU:N	2.71	0.49
42:BK:97:SER:C	42:BK:99:THR:H	2.20	0.49
53:BX:70:ILE:O	53:BX:71:SER:C	2.56	0.49
60:Be:33:ASN:O	60:Be:34:THR:CB	2.59	0.49
63:Bh:17:UNK:O	63:Bh:18:UNK:C	2.57	0.49
1:C1:102:U:O4	1:C1:360:A:C2'	2.54	0.49
1:C1:160:C:HO2'	1:C1:161:U:P	2.36	0.49
1:C1:192:U:N3	1:C1:195:G:O6	2.44	0.49
1:C1:198:A:O2'	1:C1:199:G:C8	2.53	0.49
1:C1:227:U:O2'	1:C1:228:G:OP2	2.22	0.49
1:C1:272:U:H1'	1:C1:273:G:OP1	2.11	0.49
1:C1:302:U:C4	1:C1:303:U:O2	2.64	0.49
1:C1:335:U:C5'	1:C1:336:G:OP2	2.61	0.49
1:C1:563:U:C5'	1:C1:564:G:OP2	2.60	0.49
1:C1:569:C:C2'	1:C1:570:A:O5'	2.61	0.49
1:C1:607:G:H4'	1:C1:608:U:H5'	1.94	0.49
1:C1:614:C:C4	1:C1:615:A:N7	2.81	0.49
1:C1:706:A:N6	1:C1:732:G:N3	2.60	0.49
1:C1:915:A:OP2	1:C1:915:A:C8	2.62	0.49
1:C1:919:A:H2'	1:C1:920:U:C6	2.48	0.49
1:C1:1086:A:H5'	3:CB:164:SER:CB	2.42	0.49
1:C1:1091:A:H8	1:C1:1091:A:OP2	1.95	0.49
1:C1:1148:C:C2	1:C1:1149:G:O6	2.65	0.49
1:C1:1170:G:N3	1:C1:1170:G:H2'	2.28	0.49
1:C1:1421:A:H2'	1:C1:1421:A:N3	2.26	0.49
1:C1:1524:A:H2'	1:C1:1525:A:H8	1.60	0.49
1:C1:1540:G:H2'	1:C1:1541:G:H8	1.77	0.49
1:C1:1589:C:H2'	1:C1:1590:G:O4'	2.12	0.49
1:C1:1665:U:O2	1:C1:1665:U:H2'	2.12	0.49
1:C1:1724:U:O4	74:C1:1944:OHX:N4	2.45	0.49
1:C1:1729:C:H3'	1:C1:1730:A:H8	1.77	0.49
3:CB:215:PHE:O	3:CB:216:VAL:C	2.55	0.49
5:CD:117:THR:CB	5:CD:191:ALA:HB1	2.43	0.49
5:CD:204:GLY:C	5:CD:206:SER:N	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CK:7:LYS:C	12:CK:9:VAL:N	2.70	0.49
13:CL:75:ASN:C	13:CL:78:HIS:H	2.21	0.49
13:CL:134:ARG:O	13:CL:135:GLY:C	2.55	0.49
14:CM:58:ALA:H	14:CM:60:SER:H	1.61	0.49
17:CP:95:PHE:C	17:CP:97:ASP:N	2.71	0.49
29:D1:20:A:C4'	29:D1:21:G:OP1	2.59	0.49
29:D1:64:G:H1'	29:D1:77:A:C2	2.47	0.49
29:D1:89:A:N6	29:D1:98:G:C2	2.81	0.49
29:D1:114:A:C2	29:D1:267:G:C4	3.00	0.49
29:D1:159:A:C2'	29:D1:160:G:H5'	2.43	0.49
29:D1:304:G:O2'	54:DY:61:PHE:CB	2.61	0.49
29:D1:383:G:C2	29:D1:387:A:C6	3.00	0.49
29:D1:389:A:H5'	46:DQ:17:ALA:HA	1.95	0.49
29:D1:528:U:O2	29:D1:529:A:C8	2.66	0.49
29:D1:535:G:OP2	74:D1:3456:OHX:N6	2.46	0.49
29:D1:547:G:C2'	29:D1:548:G:H5'	2.43	0.49
29:D1:571:U:H2'	29:D1:571:U:O2	2.11	0.49
29:D1:643:U:O5'	29:D1:643:U:H6	1.96	0.49
29:D1:743:C:C6	29:D1:743:C:C3'	2.96	0.49
29:D1:778:U:H2'	29:D1:779:G:H5'	1.95	0.49
29:D1:812:G:C4	29:D1:813:G:C8	3.00	0.49
29:D1:830:A:C4	29:D1:865:U:O2	2.66	0.49
29:D1:1013:G:H3'	29:D1:1014:U:O3'	2.11	0.49
29:D1:1047:A:C2'	29:D1:1048:A:H5'	2.43	0.49
29:D1:1198:C:H2'	29:D1:1200:A:C8	2.48	0.49
29:D1:1235:U:H4'	29:D1:1236:G:OP1	2.11	0.49
29:D1:1378:U:H2'	29:D1:1378:U:O2	2.12	0.49
29:D1:1381:A:C2	29:D1:1426:C:C2	3.01	0.49
29:D1:1511:U:H3'	29:D1:1512:U:H6	1.78	0.49
29:D1:1514:G:C8	29:D1:1841:A:C2	3.00	0.49
29:D1:1573:G:H3'	29:D1:1574:C:H6	1.78	0.49
29:D1:1715:A:C8	29:D1:1716:U:H5"	2.47	0.49
29:D1:1896:A:C2	29:D1:3093:C:C5	3.01	0.49
29:D1:1911:A:O4'	29:D1:2333:C:O2'	2.23	0.49
29:D1:1928:G:N7	29:D1:1929:G:N7	2.60	0.49
29:D1:2104:A:C2'	29:D1:2105:G:H5"	2.43	0.49
29:D1:2155:G:H2'	29:D1:2156:C:H6	1.73	0.49
29:D1:2223:A:O2'	29:D1:2224:A:O5'	2.30	0.49
29:D1:2243:A:N1	29:D1:2313:A:C5	2.80	0.49
29:D1:2255:A:C2	29:D1:2260:U:O4	2.66	0.49
29:D1:2276:G:N7	29:D1:2277:C:C5	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2333:C:H2'	29:D1:2334:U:O4'	2.13	0.49
29:D1:2372:A:O2'	29:D1:2373:A:OP1	2.31	0.49
29:D1:2555:G:C1'	29:D1:2556:C:P	3.00	0.49
29:D1:2626:A:N7	29:D1:2644:C:H5'	2.28	0.49
29:D1:2722:U:H2'	29:D1:2723:U:H6	1.77	0.49
29:D1:2735:U:O2'	29:D1:2736:A:H5'	2.11	0.49
29:D1:2876:C:H2'	29:D1:2877:G:H5'	1.95	0.49
29:D1:3012:A:C4	29:D1:3013:U:C5	3.01	0.49
29:D1:3019:U:O2	29:D1:3019:U:H2'	2.11	0.49
29:D1:3046:A:C5	29:D1:3047:U:C4	3.01	0.49
29:D1:3047:U:C2'	29:D1:3048:A:H5"	2.42	0.49
29:D1:3056:U:OP1	29:D1:3056:U:N3	2.44	0.49
29:D1:3105:U:C6	29:D1:3106:A:N7	2.81	0.49
29:D1:3180:A:N1	45:DP:166:GLU:CB	2.75	0.49
29:D1:3260:G:N3	29:D1:3260:G:C2'	2.74	0.49
29:D1:3308:C:H5	29:D1:3309:G:C4	2.20	0.49
29:D1:3331:U:H2'	29:D1:3332:U:H5'	1.95	0.49
29:D1:3343:G:C5	29:D1:3344:A:N6	2.81	0.49
29:D1:3381:U:N3	29:D1:3383:G:C6	2.80	0.49
30:D2:23:A:N7	30:D2:24:A:N7	2.60	0.49
31:D3:10:A:C2	31:D3:11:C:C6	3.01	0.49
31:D3:53:A:N6	31:D3:54:A:C6	2.81	0.49
31:D3:106:C:H1'	31:D3:107:G:OP2	2.13	0.49
33:DB:221:LYS:O	33:DB:222:ALA:HB2	2.13	0.49
34:DC:319:ASN:O	34:DC:320:ASP:CB	2.60	0.49
35:DD:75:PRO:O	35:DD:88:GLY:HA2	2.12	0.49
38:DG:33:ARG:O	38:DG:34:LYS:C	2.55	0.49
41:DJ:146:ASP:O	41:DJ:147:VAL:C	2.54	0.49
46:DQ:108:ASP:O	46:DQ:110:THR:N	2.46	0.49
48:DS:130:ASN:C	48:DS:132:PHE:N	2.64	0.49
53:DX:36:SER:O	53:DX:37:LYS:C	2.55	0.49
53:DX:52:ARG:C	53:DX:54:ASP:H	2.21	0.49
63:Dh:48:UNK:O	63:Dh:51:UNK:O	2.31	0.49
1:A1:22:A:N1	1:A1:604:A:C6	2.81	0.49
1:A1:133:U:H4'	1:A1:134:U:OP2	2.13	0.49
1:A1:148:A:N6	1:A1:167:U:C2	2.80	0.49
1:A1:555:A:OP2	1:A1:555:A:C3'	2.55	0.49
1:A1:659:C:OP2	1:A1:659:C:H3'	2.13	0.49
1:A1:787:G:H3'	1:A1:788:A:C8	2.48	0.49
1:A1:809:A:C6	1:A1:810:G:C6	3.01	0.49
1:A1:862:A:N9	1:A1:963:A:N6	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1035:G:C2'	1:A1:1036:A:O4'	2.59	0.49
1:A1:1211:A:C6	1:A1:1212:G:N7	2.81	0.49
1:A1:1305:U:H3'	1:A1:1306:C:O2	2.12	0.49
1:A1:1418:G:N7	74:A1:1902:OHX:N5	2.61	0.49
1:A1:1428:G:O5'	1:A1:1429:G:OP2	2.31	0.49
1:A1:1455:G:C2	1:A1:1456:C:O2	2.65	0.49
1:A1:1492:A:H1'	1:A1:1493:A:O5'	2.12	0.49
1:A1:1536:G:C4	1:A1:1538:U:O2	2.65	0.49
1:A1:1540:G:H2'	1:A1:1541:G:H5'	1.94	0.49
1:A1:1571:C:C3'	1:A1:1572:G:H5"	2.41	0.49
1:A1:1631:A:C6	1:A1:1632:C:C2	3.01	0.49
1:A1:1678:A:C2	1:A1:1725:U:N3	2.63	0.49
1:A1:1776:A:C6	1:A1:1786:G:O6	2.65	0.49
6:AE:106:GLU:O	6:AE:108:ARG:N	2.45	0.49
15:AN:23:ARG:O	15:AN:24:ILE:C	2.55	0.49
15:AN:28:SER:O	15:AN:87:HIS:O	2.30	0.49
29:B1:22:G:H2'	29:B1:23:A:H8	1.77	0.49
29:B1:413:U:H6	29:B1:413:U:O5'	1.96	0.49
29:B1:431:U:H5'	29:B1:431:U:H6	1.77	0.49
29:B1:504:A:H2'	29:B1:505:G:C5'	2.42	0.49
29:B1:516:A:O5'	29:B1:517:G:OP1	2.29	0.49
29:B1:592:A:C4	29:B1:593:C:N1	2.80	0.49
29:B1:617:G:H2'	29:B1:618:C:O5'	2.12	0.49
29:B1:637:C:C6	29:B1:638:C:C5	3.01	0.49
29:B1:661:G:C6	29:B1:802:C:C5	2.99	0.49
29:B1:727:G:H4'	29:B1:727:G:OP1	2.13	0.49
29:B1:739:G:C4	29:B1:740:G:N7	2.81	0.49
29:B1:774:G:C2'	29:B1:775:A:C5'	2.85	0.49
29:B1:780:A:C2	29:B1:781:G:C4	3.00	0.49
29:B1:877:C:H3'	29:B1:877:C:C6	2.47	0.49
29:B1:1056:U:C4	29:B1:1057:A:C5	3.00	0.49
29:B1:1119:C:C3'	29:B1:1120:A:H8	2.26	0.49
29:B1:1421:G:N2	29:B1:1422:G:C4	2.80	0.49
29:B1:1480:G:N3	29:B1:1480:G:H2'	2.28	0.49
29:B1:1523:U:H5"	29:B1:1834:U:H5	1.77	0.49
29:B1:1561:G:O2'	29:B1:1562:C:H5'	2.13	0.49
29:B1:1658:G:N1	29:B1:1796:G:O6	2.45	0.49
29:B1:1851:G:C6	29:B1:1852:G:N7	2.81	0.49
29:B1:1895:A:C2	29:B1:2335:G:O6	2.66	0.49
29:B1:1943:C:C5'	29:B1:3344:A:H5'	2.42	0.49
29:B1:2105:G:C8	29:B1:2105:G:C5'	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2173:U:C6	29:B1:2174:G:C8	3.00	0.49
29:B1:2340:U:C2'	29:B1:2341:A:H5'	2.43	0.49
29:B1:2403:G:O4'	29:B1:2872:A:N7	2.46	0.49
29:B1:2426:U:H2'	29:B1:2427:U:C6	2.48	0.49
29:B1:2561:A:OP1	29:B1:2561:A:C8	2.66	0.49
29:B1:2732:G:C5	29:B1:2733:A:C5	3.00	0.49
29:B1:2761:G:C2	29:B1:2795:U:C6	3.00	0.49
29:B1:2851:A:C8	29:B1:2851:A:H5"	2.47	0.49
29:B1:3069:G:C6	29:B1:3070:A:N7	2.80	0.49
29:B1:3152:U:H4'	29:B1:3294:A:O4'	2.13	0.49
29:B1:3157:U:H3	29:B1:3293:U:C1'	2.25	0.49
29:B1:3366:G:C2	29:B1:3367:C:C4	3.01	0.49
30:B2:11:A:H8	30:B2:13:A:C2'	2.24	0.49
30:B2:27:A:C6	30:B2:54:U:O4	2.66	0.49
30:B2:37:G:C2	30:B2:45:A:N1	2.80	0.49
30:B2:38:U:O2'	30:B2:40:C:C5'	2.59	0.49
30:B2:71:G:C2	30:B2:108:A:C2	3.00	0.49
30:B2:75:G:P	74:B2:201:OHX:N2	2.86	0.49
31:B3:1:A:N1	31:B3:2:A:C4	2.80	0.49
31:B3:53:A:N6	31:B3:54:A:C6	2.81	0.49
31:B3:79:A:H2'	31:B3:80:A:O4'	2.13	0.49
31:B3:115:C:H2'	31:B3:116:G:O5'	2.12	0.49
32:BA:154:THR:HA	32:BA:155:ILE:C	2.38	0.49
35:BD:8:VAL:O	35:BD:17:ALA:HB3	2.13	0.49
35:BD:9:HIS:O	35:BD:17:ALA:CB	2.61	0.49
35:BD:10:SER:HA	35:BD:17:ALA:N	2.25	0.49
35:BD:117:GLU:C	35:BD:119:ARG:H	2.21	0.49
35:BD:237:GLN:C	35:BD:239:ALA:N	2.71	0.49
36:BE:196:ARG:O	36:BE:197:SER:C	2.55	0.49
37:BF:52:VAL:O	37:BF:66:SER:CB	2.60	0.49
39:BH:109:LEU:O	39:BH:110:THR:CB	2.60	0.49
40:BI:104:VAL:CB	40:BI:105:GLU:HA	2.42	0.49
56:Ba:9:THR:HA	56:Ba:76:SER:CA	2.28	0.49
1:C1:15:U:O4'	1:C1:619:A:C2	2.66	0.49
1:C1:57:G:C5	1:C1:91:G:C2	3.01	0.49
1:C1:111:U:O2	1:C1:111:U:H2'	2.12	0.49
1:C1:201:G:O2'	1:C1:202:A:H5'	2.13	0.49
1:C1:521:A:H5'	1:C1:522:U:OP1	2.12	0.49
1:C1:719:U:H1'	1:C1:720:G:O5'	2.12	0.49
1:C1:747:C:H2'	1:C1:748:U:H6	1.76	0.49
1:C1:832:U:C3'	1:C1:833:U:H5"	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:874:C:H2'	1:C1:875:G:C8	2.48	0.49
1:C1:960:U:C2'	1:C1:961:U:H5'	2.42	0.49
1:C1:993:A:H2'	1:C1:994:G:C5'	2.42	0.49
1:C1:1008:G:H5'	1:C1:1009:U:OP2	2.11	0.49
1:C1:1030:A:C3'	1:C1:1031:U:H5'	2.38	0.49
1:C1:1062:A:H2'	1:C1:1063:U:O4'	2.13	0.49
1:C1:1112:G:N2	1:C1:1134:C:N3	2.60	0.49
1:C1:1139:A:H2'	1:C1:1140:G:O4'	2.13	0.49
1:C1:1165:G:C6	1:C1:1166:A:C6	3.00	0.49
1:C1:1308:G:C4	1:C1:1309:C:C5	3.01	0.49
1:C1:1435:G:H4'	1:C1:1436:A:H5'	1.95	0.49
1:C1:1466:G:C5	1:C1:1467:C:C5	3.01	0.49
1:C1:1479:A:C3'	1:C1:1480:G:H5"	2.43	0.49
1:C1:1497:U:O4	1:C1:1511:U:C2	2.66	0.49
1:C1:1644:C:OP2	1:C1:1644:C:H3'	2.13	0.49
1:C1:1691:A:N7	1:C1:1692:G:C4	2.80	0.49
1:C1:1750:A:C4	1:C1:1751:C:C6	3.00	0.49
6:CE:106:GLU:O	6:CE:108:ARG:N	2.45	0.49
8:CG:91:LEU:O	8:CG:95:ALA:HB3	2.12	0.49
8:CG:142:GLU:C	8:CG:144:ALA:N	2.66	0.49
9:CH:52:ARG:CB	9:CH:53:ASP:HA	2.41	0.49
9:CH:61:MET:C	9:CH:63:ALA:N	2.70	0.49
21:CT:27:ALA:HB2	21:CT:296:ALA:CB	2.43	0.49
21:CT:95:ALA:C	21:CT:97:GLY:H	2.21	0.49
23:Cb:23:UNK:O	23:Cb:24:UNK:CB	2.59	0.49
25:Cd:108:UNK:CB	25:Cd:112:UNK:CB	2.91	0.49
28:Ch:4:UNK:C	28:Ch:6:UNK:N	2.74	0.49
29:D1:5:G:O6	29:D1:6:A:C6	2.66	0.49
29:D1:8:C:C2	29:D1:9:U:C5	2.99	0.49
29:D1:20:A:O2'	29:D1:21:G:C5'	2.60	0.49
29:D1:189:G:N3	29:D1:191:U:O4	2.46	0.49
29:D1:271:C:C5	29:D1:295:A:N7	2.80	0.49
29:D1:382:U:C6	29:D1:383:G:O4'	2.66	0.49
29:D1:384:A:N3	29:D1:1465:A:C6	2.81	0.49
29:D1:525:C:O2'	29:D1:526:C:H5'	2.13	0.49
29:D1:564:G:H3'	29:D1:565:U:H6	1.67	0.49
29:D1:812:G:H2'	29:D1:813:G:H8	1.78	0.49
29:D1:836:A:H2'	29:D1:836:A:N3	2.26	0.49
29:D1:943:U:C1'	29:D1:1432:C:C6	2.96	0.49
29:D1:953:G:N7	29:D1:1117:G:C8	2.80	0.49
29:D1:957:C:HO2'	29:D1:2799:A:HO2'	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1109:U:H3'	29:D1:1110:U:H6	1.77	0.49
29:D1:1130:A:C5'	29:D1:1130:A:C8	2.95	0.49
29:D1:1166:G:C3'	29:D1:1167:U:H5"	2.41	0.49
29:D1:1257:C:C4	29:D1:1258:U:C4	3.00	0.49
29:D1:1260:A:H1'	29:D1:1280:C:C1'	2.42	0.49
29:D1:1352:A:C3'	29:D1:1353:U:H4'	2.41	0.49
29:D1:1397:C:N4	29:D1:1398:U:O4	2.46	0.49
29:D1:1447:G:O2'	29:D1:2355:G:N1	2.45	0.49
29:D1:1448:U:OP2	29:D1:2355:G:N2	2.44	0.49
29:D1:1509:A:C6	29:D1:1510:G:C2	3.00	0.49
29:D1:1595:U:OP1	29:D1:1595:U:H4'	2.10	0.49
29:D1:1623:G:H3'	29:D1:1624:G:C8	2.45	0.49
29:D1:1714:A:C6	29:D1:1728:G:C6	3.00	0.49
29:D1:1881:A:C6	29:D1:2352:A:N6	2.80	0.49
29:D1:2111:G:H22	51:DV:50:ALA:N	2.10	0.49
29:D1:2131:A:C8	29:D1:2131:A:C3'	2.96	0.49
29:D1:2185:G:C4	29:D1:2186:U:C5	3.00	0.49
29:D1:2204:C:C2'	29:D1:2205:U:H5"	2.42	0.49
29:D1:2210:G:C6	29:D1:2236:G:N2	2.81	0.49
29:D1:2279:A:C4'	29:D1:2280:A:H5'	2.40	0.49
29:D1:2299:A:H2'	29:D1:2300:G:O5'	2.13	0.49
29:D1:2609:A:C4	29:D1:2610:G:C8	3.01	0.49
29:D1:2821:C:H3'	29:D1:2821:C:C6	2.48	0.49
29:D1:2890:A:C5	29:D1:2891:U:C4	3.00	0.49
29:D1:3032:A:N6	29:D1:3033:A:N1	2.60	0.49
29:D1:3086:A:H2'	29:D1:3087:A:C8	2.47	0.49
29:D1:3144:G:OP1	29:D1:3145:C:OP2	2.31	0.49
29:D1:3198:U:O2	29:D1:3199:G:N7	2.46	0.49
74:D1:3597:OHX:N6	43:DN:92:GLU:O	2.45	0.49
30:D2:43:U:C2	30:D2:44:C:C6	3.00	0.49
30:D2:54:U:H4'	30:D2:55:A:O5'	2.12	0.49
30:D2:62:U:H3'	30:D2:63:A:H8	1.76	0.49
30:D2:68:C:O2'	30:D2:69:C:H4'	2.13	0.49
31:D3:14:C:H5"	31:D3:15:G:OP2	2.12	0.49
31:D3:40:A:O2'	31:D3:41:A:P	2.70	0.49
33:DB:206:PRO:C	33:DB:207:VAL:O	2.54	0.49
35:DD:101:ALA:C	35:DD:102:PRO:O	2.55	0.49
36:DE:264:GLN:O	36:DE:283:ALA:C	2.56	0.49
39:DH:228:GLU:C	39:DH:230:LYS:H	2.19	0.49
72:DL:94:LYS:O	72:DL:96:LYS:N	2.41	0.49
43:DN:26:GLY:C	43:DN:27:GLN:O	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:110:ALA:O	47:DR:113:LYS:N	2.45	0.49
51:DV:18:GLY:HA3	51:DV:32:GLN:HA	1.92	0.49
57:Db:61:LYS:O	57:Db:63:THR:N	2.46	0.49
58:Dc:62:GLN:C	58:Dc:65:ALA:HB3	2.38	0.49
26:Dj:11:UNK:C	26:Dj:13:UNK:N	2.75	0.49
1:A1:166:C:C4	1:A1:167:U:C4	3.01	0.49
1:A1:243:G:C6	1:A1:250:C:N3	2.81	0.49
1:A1:356:G:C2	1:A1:357:G:C8	3.00	0.49
1:A1:475:A:C2	1:A1:476:U:O2	2.66	0.49
1:A1:624:G:C5	1:A1:625:C:C5	3.00	0.49
1:A1:690:G:N1	1:A1:691:C:C4	2.81	0.49
1:A1:856:A:H3'	1:A1:857:U:C5'	2.41	0.49
1:A1:978:A:C8	1:A1:978:A:OP2	2.66	0.49
1:A1:1022:C:O2'	1:A1:1125:A:N1	2.42	0.49
1:A1:1066:C:C2	1:A1:1067:C:C6	3.01	0.49
1:A1:1123:C:C5	1:A1:1124:A:C4	3.00	0.49
1:A1:1144:U:C1'	1:A1:1300:A:C2	2.96	0.49
1:A1:1256:A:OP2	1:A1:1257:U:H5'	2.13	0.49
1:A1:1353:U:H3	1:A1:1371:A:H61	1.60	0.49
1:A1:1633:A:C1'	1:A1:1634:C:OP2	2.60	0.49
1:A1:1663:G:C4	1:A1:1664:C:C6	3.00	0.49
1:A1:1682:U:C2	1:A1:1683:C:C5	3.01	0.49
1:A1:1720:G:H2'	1:A1:1721:A:H5'	1.93	0.49
4:AC:97:SER:O	4:AC:99:VAL:N	2.45	0.49
6:AE:24:LEU:O	6:AE:27:GLU:N	2.46	0.49
20:AS:37:ASN:C	74:AS:101:OHX:N3	2.70	0.49
23:Ab:75:UNK:O	23:Ab:76:UNK:C	2.60	0.49
29:B1:20:A:HO2'	29:B1:21:G:P	2.35	0.49
29:B1:21:G:N2	31:B3:37:A:C8	2.81	0.49
29:B1:60:A:N7	29:B1:61:A:C8	2.81	0.49
29:B1:159:A:C2'	29:B1:160:G:H5'	2.42	0.49
29:B1:293:C:H2'	29:B1:294:U:O4'	2.12	0.49
29:B1:296:A:C6	29:B1:297:G:N1	2.80	0.49
29:B1:349:A:N3	31:B3:24:G:C1'	2.76	0.49
29:B1:363:G:H2'	29:B1:364:G:C5'	2.20	0.49
29:B1:382:U:C3'	29:B1:383:G:C4'	2.88	0.49
29:B1:543:C:C2'	29:B1:544:C:H5'	2.43	0.49
29:B1:560:G:C8	29:B1:560:G:H5"	2.47	0.49
29:B1:561:C:H2'	29:B1:562:C:C6	2.48	0.49
29:B1:824:C:H2'	29:B1:825:U:H6	1.68	0.49
29:B1:934:G:C4	29:B1:935:U:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1003:A:C2	29:B1:1004:U:C1'	2.95	0.49
29:B1:1120:A:C5'	29:B1:1121:U:OP2	2.51	0.49
29:B1:1133:A:O2'	29:B1:1134:G:H5'	2.13	0.49
29:B1:1178:G:N7	29:B1:1179:A:C4	2.81	0.49
29:B1:1198:C:OP2	29:B1:1198:C:H2'	2.12	0.49
29:B1:1224:C:N4	29:B1:1286:A:C4	2.81	0.49
29:B1:1260:A:C6	29:B1:1279:C:O2	2.65	0.49
29:B1:1276:U:N3	74:B1:3563:OHX:N4	2.61	0.49
29:B1:1331:U:C4'	29:B1:1332:A:OP2	2.50	0.49
29:B1:1366:A:C2'	29:B1:1367:G:H5'	2.43	0.49
29:B1:1379:G:H5"	29:B1:1380:G:OP2	2.13	0.49
29:B1:1520:G:N2	29:B1:1521:G:C4	2.80	0.49
29:B1:1608:C:N3	29:B1:1609:C:C5	2.80	0.49
29:B1:1615:C:C2	29:B1:1616:U:C5	3.00	0.49
29:B1:2143:A:O2'	29:B1:2144:A:H5'	2.12	0.49
29:B1:2155:G:C6	29:B1:2156:C:N4	2.81	0.49
29:B1:2167:A:C3'	29:B1:2168:A:C8	2.93	0.49
29:B1:2182:A:N3	29:B1:2183:A:C8	2.81	0.49
29:B1:2249:G:H2'	29:B1:2250:G:H1'	1.92	0.49
29:B1:2352:A:H2'	29:B1:2353:G:H8	1.77	0.49
29:B1:2369:G:C6	29:B1:2370:G:N1	2.81	0.49
29:B1:2423:U:C2'	29:B1:2424:A:OP2	2.61	0.49
29:B1:2501:U:H1'	29:B1:2502:A:O5'	2.12	0.49
29:B1:2642:A:C2	29:B1:2643:A:C6	3.01	0.49
29:B1:2881:C:O2	29:B1:2882:U:C5	2.65	0.49
29:B1:2948:C:O2'	29:B1:2949:U:O4'	2.25	0.49
29:B1:3010:U:O4'	34:BC:15:GLY:CA	2.61	0.49
29:B1:3012:A:C5	29:B1:3013:U:H5	2.30	0.49
29:B1:3030:G:C2'	29:B1:3031:G:O5'	2.61	0.49
29:B1:3054:U:OP2	29:B1:3054:U:H6	1.95	0.49
29:B1:3294:A:C5	29:B1:3295:A:C8	3.00	0.49
29:B1:3321:C:N1	29:B1:3322:A:C8	2.81	0.49
29:B1:3392:U:C2	29:B1:3393:U:N3	2.79	0.49
30:B2:79:A:C1'	30:B2:102:A:N6	2.75	0.49
31:B3:53:A:C4	31:B3:54:A:N7	2.80	0.49
31:B3:57:C:O2'	31:B3:58:G:H5'	2.12	0.49
31:B3:104:A:C8	31:B3:105:A:C8	3.00	0.49
34:BC:237:LYS:O	34:BC:239:PRO:N	2.46	0.49
35:BD:16:THR:CB	35:BD:17:ALA:CA	2.87	0.49
38:BG:40:LYS:O	38:BG:43:ILE:CB	2.61	0.49
39:BH:228:GLU:C	39:BH:230:LYS:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BI:157:ASN:O	40:BI:160:ASP:N	2.46	0.49
47:BR:145:ASN:CA	47:BR:146:SER:CB	2.90	0.49
52:BW:88:MET:C	52:BW:90:ALA:N	2.67	0.49
56:Ba:56:ASN:O	56:Ba:58:ALA:N	2.46	0.49
57:Bb:114:ALA:C	57:Bb:116:GLY:N	2.69	0.49
60:Be:43:ASN:O	60:Be:44:TRP:C	2.56	0.49
62:Bg:56:THR:CA	62:Bg:63:THR:HA	2.39	0.49
22:Bo:8:UNK:C	22:Bo:10:UNK:N	2.76	0.49
1:C1:223:U:O2	1:C1:838:G:N2	2.24	0.49
1:C1:257:A:C6	1:C1:258:C:C5	3.00	0.49
1:C1:292:U:C6	1:C1:292:U:O5'	2.60	0.49
1:C1:304:U:O2	1:C1:304:U:C2'	2.57	0.49
1:C1:326:G:H2'	1:C1:327:U:H6	1.78	0.49
1:C1:492:A:N1	1:C1:496:G:C2	2.81	0.49
1:C1:690:G:N1	1:C1:691:C:C4	2.81	0.49
1:C1:738:G:O6	74:C1:1918:OHX:N1	2.46	0.49
1:C1:789:A:H2'	1:C1:789:A:N3	2.28	0.49
1:C1:1075:C:N4	1:C1:1076:A:H61	2.11	0.49
1:C1:1172:G:C5	1:C1:1173:C:C5	3.01	0.49
1:C1:1672:G:C2	1:C1:1673:G:C6	3.01	0.49
1:C1:1673:G:N7	1:C1:1674:C:C5	2.81	0.49
1:C1:1689:A:N6	1:C1:1715:G:C2	2.80	0.49
1:C1:1720:G:C2'	1:C1:1721:A:C5'	2.88	0.49
1:C1:1778:G:C6	1:C1:1779:U:C5	3.01	0.49
17:CP:76:LEU:O	17:CP:77:ILE:C	2.55	0.49
28:Ch:8:UNK:O	28:Ch:9:UNK:C	2.59	0.49
29:D1:38:U:H2'	29:D1:39:A:O4'	2.12	0.49
29:D1:60:A:C5	29:D1:61:A:C8	3.01	0.49
29:D1:198:A:H1'	29:D1:218:G:C4	2.47	0.49
29:D1:251:G:H4'	29:D1:252:U:OP1	2.09	0.49
29:D1:283:G:C4	29:D1:285:A:N7	2.80	0.49
29:D1:290:G:H2'	29:D1:291:C:C6	2.48	0.49
29:D1:384:A:C8	29:D1:385:A:C8	3.01	0.49
29:D1:406:G:C1'	31:D3:16:G:H22	2.15	0.49
29:D1:629:U:H3'	29:D1:630:A:C8	2.42	0.49
29:D1:648:C:C6	29:D1:2374:C:O2'	2.62	0.49
29:D1:738:A:C2	29:D1:739:G:C5	3.01	0.49
29:D1:752:C:HO2'	29:D1:753:C:H6	1.58	0.49
29:D1:789:A:H2'	29:D1:790:U:H6	1.76	0.49
29:D1:949:C:O2'	29:D1:950:G:H5'	2.13	0.49
29:D1:957:C:C2	29:D1:958:C:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1035:G:C5	29:D1:1036:A:N7	2.80	0.49
29:D1:1080:A:H8	29:D1:1080:A:OP2	1.95	0.49
29:D1:1145:G:N2	29:D1:1160:C:O4'	2.46	0.49
29:D1:1303:A:C8	29:D1:1304:A:C4	2.93	0.49
29:D1:1313:G:C5	29:D1:1314:C:C5	3.00	0.49
29:D1:1330:A:O2'	29:D1:1331:U:H2'	2.12	0.49
29:D1:1505:C:H4'	29:D1:1505:C:OP1	2.13	0.49
29:D1:1626:U:H2'	29:D1:1627:U:O4'	2.12	0.49
29:D1:2188:A:OP1	29:D1:2189:U:OP2	2.30	0.49
29:D1:2199:G:C4	29:D1:2200:U:C5	3.00	0.49
29:D1:2260:U:C2'	29:D1:2261:G:C8	2.95	0.49
29:D1:2963:C:H2'	29:D1:2964:G:H5'	1.93	0.49
29:D1:3097:C:O2'	29:D1:3098:G:O5'	2.31	0.49
29:D1:3121:U:C2	29:D1:3122:A:N7	2.81	0.49
29:D1:3142:A:H1'	29:D1:3144:G:N7	2.28	0.49
29:D1:3277:U:C6	29:D1:3277:U:OP2	2.65	0.49
29:D1:3331:U:H6	29:D1:3331:U:C5'	2.25	0.49
29:D1:3355:U:O2'	29:D1:3356:G:O4'	2.30	0.49
30:D2:5:G:H2'	30:D2:6:C:H5"	1.93	0.49
30:D2:56:A:O2'	42:DK:136:ALA:HB2	2.13	0.49
31:D3:56:G:H2'	31:D3:57:C:C6	2.47	0.49
33:DB:181:LYS:C	33:DB:182:ALA:O	2.54	0.49
38:DG:205:PHE:O	38:DG:206:LYS:CB	2.60	0.49
38:DG:219:LYS:HA	38:DG:227:GLY:O	2.12	0.49
39:DH:100:GLU:C	39:DH:103:ALA:H	2.21	0.49
43:DN:9:ALA:HB1	43:DN:21:VAL:CB	2.43	0.49
54:DY:21:ARG:O	54:DY:22:ILE:CB	2.60	0.49
56:Da:55:LEU:O	56:Da:59:ILE:N	2.46	0.49
57:Db:20:HIS:O	57:Db:22:SER:N	2.46	0.49
59:Dd:42:ALA:O	59:Dd:44:THR:N	2.46	0.49
1:A1:23:G:O2'	1:A1:368:U:OP1	2.29	0.49
1:A1:125:U:C4'	1:A1:126:A:OP1	2.60	0.49
1:A1:170:U:H5'	1:A1:267:U:H1'	1.95	0.49
1:A1:175:G:N2	1:A1:266:A:OP1	2.45	0.49
1:A1:225:A:O2'	1:A1:226:A:P	2.71	0.49
1:A1:264:G:C3'	1:A1:265:A:C5'	2.80	0.49
1:A1:269:G:C6	1:A1:270:C:C4	3.01	0.49
1:A1:280:U:H3'	1:A1:281:G:C8	2.37	0.49
1:A1:280:U:C3'	1:A1:281:G:H8	2.21	0.49
1:A1:327:U:C2	1:A1:328:A:C8	3.01	0.49
1:A1:479:C:O3'	1:A1:480:G:O4'	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:555:A:C1'	1:A1:556:A:OP1	2.61	0.49
1:A1:558:U:C4	1:A1:559:C:N4	2.80	0.49
1:A1:648:G:O2'	1:A1:649:U:O5'	2.30	0.49
1:A1:691:C:O2'	1:A1:692:C:P	2.70	0.49
1:A1:956:C:N4	1:A1:957:G:O6	2.46	0.49
1:A1:965:U:O2'	1:A1:966:A:OP1	2.17	0.49
1:A1:982:U:H2'	1:A1:983:A:H8	1.77	0.49
1:A1:1011:G:OP2	74:A1:1958:OHX:N6	2.46	0.49
1:A1:1051:G:H2'	1:A1:1052:U:C2	2.48	0.49
1:A1:1065:A:H3'	1:A1:1066:C:H6	1.77	0.49
1:A1:1150:G:H2'	1:A1:1151:A:O5'	2.13	0.49
1:A1:1211:A:C4	1:A1:1212:G:C8	3.01	0.49
1:A1:1355:C:H2'	1:A1:1356:U:C6	2.48	0.49
1:A1:1388:A:N6	1:A1:1411:A:N7	2.61	0.49
1:A1:1389:C:O2	1:A1:1389:C:H3'	2.13	0.49
1:A1:1407:U:C5	1:A1:1408:G:C8	3.01	0.49
1:A1:1472:C:O2'	5:AD:188:LYS:HA	2.13	0.49
1:A1:1530:C:C2	1:A1:1531:G:C8	3.01	0.49
1:A1:1631:A:C4	1:A1:1632:C:C1'	2.96	0.49
1:A1:1733:C:N4	1:A1:1734:U:O4	2.46	0.49
3:AB:146:THR:O	3:AB:147:ASN:C	2.55	0.49
5:AD:55:ASP:O	5:AD:56:ALA:C	2.56	0.49
16:AO:57:ARG:C	16:AO:59:GLY:H	2.20	0.49
17:AP:136:TRP:HA	17:AP:137:LYS:O	2.13	0.49
18:AQ:41:ILE:HA	18:AQ:44:GLN:CB	2.43	0.49
18:AQ:43:ASP:HA	18:AQ:46:LYS:CB	2.42	0.49
29:B1:13:A:H2	29:B1:15:C:H2'	1.78	0.49
29:B1:51:A:H2'	29:B1:52:A:H5'	1.94	0.49
29:B1:53:G:C5	29:B1:54:C:C5	3.00	0.49
29:B1:138:U:C2	29:B1:139:G:C8	3.01	0.49
29:B1:309:U:C5	29:B1:310:U:C4	3.01	0.49
29:B1:331:G:C2'	29:B1:332:C:H5"	2.43	0.49
29:B1:339:C:H2'	29:B1:340:C:C5'	2.42	0.49
29:B1:391:A:H5"	29:B1:391:A:H8	1.78	0.49
29:B1:534:U:OP2	29:B1:534:U:H5	1.96	0.49
29:B1:583:G:N1	29:B1:584:G:C5	2.80	0.49
29:B1:594:U:N3	29:B1:595:G:C6	2.81	0.49
29:B1:642:U:H3'	29:B1:644:G:OP2	2.12	0.49
29:B1:691:A:C3'	29:B1:692:A:H5'	2.42	0.49
29:B1:769:G:H1'	29:B1:770:G:O5'	2.13	0.49
29:B1:779:G:C5	29:B1:780:A:N7	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1013:G:H4'	29:B1:1014:U:OP1	2.12	0.49
29:B1:1078:U:H5'	29:B1:1079:A:OP2	2.13	0.49
29:B1:1131:G:N3	29:B1:2373:A:N1	2.59	0.49
29:B1:1536:G:H2'	29:B1:1536:G:N3	2.27	0.49
29:B1:1623:G:H3'	29:B1:1624:G:C8	2.46	0.49
29:B1:1720:U:C6	29:B1:1720:U:C3'	2.95	0.49
29:B1:1819:U:C4	29:B1:1820:U:O4	2.66	0.49
29:B1:1919:G:C2'	29:B1:1933:A:H61	2.25	0.49
29:B1:1928:G:N7	29:B1:1929:G:N7	2.60	0.49
29:B1:2177:G:O2'	29:B1:2178:A:P	2.71	0.49
29:B1:2188:A:OP1	29:B1:2189:U:OP2	2.31	0.49
29:B1:2205:U:C2'	29:B1:2206:G:H5'	2.37	0.49
29:B1:2253:G:C4	29:B1:2254:U:C6	3.01	0.49
29:B1:2294:U:H3'	29:B1:2295:A:H5"	1.94	0.49
29:B1:2317:A:C2	29:B1:2318:U:C2	3.01	0.49
29:B1:2383:C:C5	29:B1:2384:A:N7	2.81	0.49
29:B1:2883:U:O2'	29:B1:2884:C:O5'	2.28	0.49
29:B1:2917:G:N2	29:B1:2918:G:C4	2.81	0.49
29:B1:3024:A:H2'	29:B1:3025:C:C6	2.48	0.49
29:B1:3147:G:C6	29:B1:3148:U:C4	3.00	0.49
29:B1:3172:A:C1'	29:B1:3173:G:C8	2.83	0.49
29:B1:3238:G:O6	29:B1:3250:U:C4	2.65	0.49
30:B2:30:G:C6	30:B2:31:U:N3	2.80	0.49
31:B3:26:U:N3	31:B3:27:U:C4	2.81	0.49
31:B3:65:A:C4	31:B3:66:A:N7	2.81	0.49
31:B3:124:G:C5'	31:B3:125:U:OP2	2.60	0.49
33:BB:95:SER:O	33:BB:96:LEU:CB	2.60	0.49
36:BE:48:LYS:O	36:BE:49:TYR:CB	2.59	0.49
36:BE:234:ASP:C	36:BE:236:LEU:N	2.71	0.49
38:BG:187:GLU:O	38:BG:189:ILE:N	2.46	0.49
40:BI:159:ALA:O	40:BI:160:ASP:C	2.55	0.49
48:BS:130:ASN:C	48:BS:132:PHE:N	2.70	0.49
49:BT:9:SER:O	49:BT:11:THR:N	2.45	0.49
52:BW:129:ASP:O	52:BW:130:TYR:C	2.56	0.49
53:BX:64:LYS:C	53:BX:66:GLN:N	2.70	0.49
1:C1:14:C:C5'	3:CB:164:SER:H	2.25	0.49
1:C1:51:A:C6	1:C1:52:U:C2	3.01	0.49
1:C1:63:G:C6	1:C1:88:U:C2	3.01	0.49
1:C1:110:U:H4'	1:C1:797:G:H21	1.76	0.49
1:C1:248:U:O2	1:C1:248:U:O4'	2.30	0.49
1:C1:384:G:O6	74:C1:1999:OHX:N5	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:389:G:C4	1:C1:390:G:C8	3.01	0.49
1:C1:469:C:H5"	1:C1:470:A:OP2	2.13	0.49
1:C1:555:A:H2'	1:C1:555:A:P	2.53	0.49
1:C1:605:A:C8	1:C1:606:A:C2	3.01	0.49
1:C1:698:U:C5	1:C1:741:C:N4	2.81	0.49
1:C1:795:U:C6	1:C1:796:A:C8	3.01	0.49
1:C1:865:A:H2'	1:C1:866:G:C8	2.48	0.49
1:C1:929:A:N6	1:C1:930:A:C2	2.81	0.49
1:C1:938:G:C8	1:C1:938:G:H3'	2.48	0.49
1:C1:971:A:C8	1:C1:972:G:N7	2.81	0.49
1:C1:1130:G:OP2	74:C1:1994:OHX:N1	2.46	0.49
1:C1:1146:G:H2'	1:C1:1147:A:O5'	2.13	0.49
1:C1:1172:G:H2'	1:C1:1173:C:C6	2.48	0.49
1:C1:1363:U:C2'	1:C1:1364:G:C8	2.96	0.49
1:C1:1567:U:H5'	1:C1:1567:U:H6	1.78	0.49
1:C1:1632:C:O2	1:C1:1633:A:C8	2.66	0.49
1:C1:1762:A:OP1	1:C1:1763:A:OP2	2.31	0.49
5:CD:108:LEU:O	5:CD:109:LYS:CB	2.59	0.49
6:CE:42:ILE:C	6:CE:45:ILE:H	2.21	0.49
15:CN:15:GLN:O	15:CN:17:GLN:HA	2.12	0.49
20:CS:26:SER:O	20:CS:28:THR:N	2.45	0.49
20:CS:38:ILE:CB	74:CS:101:OHX:N3	2.76	0.49
29:D1:40:A:C3'	29:D1:41:G:C5'	2.90	0.49
29:D1:156:G:C8	29:D1:157:A:N3	2.81	0.49
29:D1:199:A:N1	29:D1:219:A:C6	2.81	0.49
29:D1:281:G:N3	29:D1:282:G:N7	2.61	0.49
29:D1:363:G:H2'	29:D1:364:G:C5'	2.27	0.49
29:D1:392:G:N1	29:D1:393:U:C5	2.81	0.49
29:D1:693:A:C2'	29:D1:694:C:H6	2.24	0.49
29:D1:1047:A:N1	29:D1:1048:A:C2	2.81	0.49
29:D1:1169:A:C2	29:D1:1330:A:C5	3.00	0.49
29:D1:1257:C:C4	29:D1:1261:G:N2	2.81	0.49
29:D1:1304:A:N3	29:D1:2939:G:H1'	2.27	0.49
29:D1:1353:U:H5	29:D1:1355:A:H62	1.59	0.49
29:D1:1388:U:H2'	29:D1:1389:G:C8	2.48	0.49
29:D1:1625:A:C6	29:D1:1626:U:C2	3.01	0.49
29:D1:1669:C:C4	29:D1:1670:C:C5	3.00	0.49
29:D1:1724:U:C2'	29:D1:1725:C:O4'	2.61	0.49
29:D1:1787:A:C6	29:D1:1788:C:C5	3.01	0.49
29:D1:1936:A:C5	29:D1:1937:U:C5	3.00	0.49
29:D1:2105:G:H2'	29:D1:2106:A:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2271:A:C2'	29:D1:2272:G:C5'	2.71	0.49
29:D1:2296:A:C2	29:D1:2919:A:C1'	2.96	0.49
29:D1:2320:A:H5"	29:D1:2321:A:OP2	2.13	0.49
29:D1:2331:C:H2'	29:D1:2332:A:O4'	2.12	0.49
29:D1:2433:U:H5"	29:D1:2434:U:OP2	2.13	0.49
29:D1:2559:U:H2'	29:D1:2559:U:O2	2.12	0.49
29:D1:2866:U:H1'	29:D1:2867:C:H5	1.78	0.49
29:D1:2924:U:C4	29:D1:2925:C:O2	2.66	0.49
29:D1:3154:C:H3'	29:D1:3154:C:O2	2.13	0.49
29:D1:3157:U:H4'	29:D1:3158:G:O4'	2.12	0.49
29:D1:3190:C:O2	29:D1:3190:C:C2'	2.61	0.49
30:D2:2:G:C4	30:D2:3:U:C5	3.01	0.49
30:D2:41:G:N1	30:D2:43:U:C5	2.81	0.49
30:D2:104:A:C5	30:D2:105:C:C5	3.01	0.49
31:D3:19:C:N4	31:D3:20:U:O4	2.46	0.49
33:DB:47:GLN:HA	33:DB:58:LEU:CB	2.42	0.49
34:DC:62:ARG:C	34:DC:64:GLY:N	2.68	0.49
34:DC:294:GLY:C	34:DC:305:ILE:H	2.21	0.49
35:DD:162:THR:O	35:DD:166:VAL:N	2.45	0.49
36:DE:272:TYR:CB	36:DE:275:THR:HA	2.42	0.49
37:DF:41:ILE:N	37:DF:85:ILE:CA	2.36	0.49
38:DG:137:GLY:C	38:DG:236:ILE:CB	2.86	0.49
38:DG:192:GLY:O	38:DG:193:PRO:CB	2.59	0.49
45:DP:9:ILE:HA	45:DP:117:ARG:O	2.12	0.49
46:DQ:103:GLU:O	46:DQ:106:GLY:HA2	2.12	0.49
53:DX:91:ASN:O	53:DX:93:ALA:N	2.46	0.49
56:Da:19:ARG:C	56:Da:21:HIS:N	2.69	0.49
62:Dg:65:ALA:O	62:Dg:66:GLY:O	2.30	0.49
63:Dh:45:UNK:O	63:Dh:48:UNK:N	2.46	0.49
1:A1:27:U:H2'	1:A1:28:A:H8	1.77	0.49
1:A1:55:A:HO2'	1:A1:403:G:H1	1.59	0.49
1:A1:61:A:H4'	1:A1:62:A:C3'	2.42	0.49
1:A1:97:C:C4	1:A1:98:U:C5	3.00	0.49
1:A1:106:U:C4	1:A1:107:C:N3	2.80	0.49
1:A1:198:A:O2'	1:A1:199:G:C8	2.52	0.49
1:A1:220:A:N6	1:A1:221:A:H62	2.11	0.49
1:A1:321:C:C2'	1:A1:322:G:H8	2.26	0.49
1:A1:606:A:C6	1:A1:608:U:O4	2.66	0.49
1:A1:753:A:H2'	1:A1:754:A:C8	2.48	0.49
1:A1:812:A:N6	1:A1:859:A:C8	2.81	0.49
1:A1:863:A:C8	1:A1:865:A:N7	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:863:A:C4	1:A1:865:A:C8	3.00	0.49
1:A1:996:U:O2	1:A1:996:U:C2'	2.57	0.49
1:A1:1086:A:C8	1:A1:1087:A:N7	2.80	0.49
1:A1:1138:A:C4	1:A1:1139:A:N7	2.81	0.49
1:A1:1176:G:C6	1:A1:1177:C:N4	2.81	0.49
1:A1:1185:U:H1'	1:A1:1186:U:OP2	2.13	0.49
1:A1:1186:U:O2'	1:A1:1187:U:H5'	2.12	0.49
1:A1:1227:A:H3'	1:A1:1229:G:OP2	2.13	0.49
1:A1:1318:G:N2	1:A1:1319:A:N3	2.61	0.49
1:A1:1371:A:H2'	1:A1:1371:A:N3	2.26	0.49
1:A1:1483:A:H5"	1:A1:1521:G:O2'	2.13	0.49
1:A1:1483:A:C1'	1:A1:1524:A:H62	2.22	0.49
1:A1:1526:A:C8	1:A1:1526:A:O5'	2.66	0.49
1:A1:1541:G:C6	1:A1:1542:G:O6	2.65	0.49
1:A1:1683:C:C6	1:A1:1719:A:N6	2.81	0.49
3:AB:208:GLU:O	3:AB:212:LYS:CB	2.61	0.49
16:AO:4:SER:O	16:AO:5:SER:CB	2.61	0.49
16:AO:39:GLN:O	16:AO:41:MET:N	2.46	0.49
16:AO:74:VAL:CB	16:AO:128:PHE:O	2.61	0.49
20:AS:21:CYS:O	20:AS:22:ARG:C	2.56	0.49
20:AS:38:ILE:O	20:AS:41:GLN:N	2.46	0.49
29:B1:25:U:H2'	29:B1:26:A:H8	1.76	0.49
29:B1:39:A:C5'	29:B1:40:A:H4'	2.41	0.49
29:B1:142:C:H2'	29:B1:143:G:C8	2.47	0.49
29:B1:212:G:C4	29:B1:222:A:C8	3.01	0.49
29:B1:246:U:OP1	29:B1:247:C:H5"	2.13	0.49
29:B1:292:U:H2'	29:B1:292:U:O2	2.11	0.49
29:B1:415:G:N3	29:B1:416:A:C8	2.81	0.49
29:B1:495:G:H2'	29:B1:496:C:H5'	1.95	0.49
29:B1:588:G:C4	29:B1:612:U:H5	2.30	0.49
29:B1:600:G:C6	74:B1:3620:OHX:N1	2.81	0.49
29:B1:611:A:C3'	29:B1:612:U:C5'	2.84	0.49
29:B1:645:A:N7	29:B1:649:A:C5	2.80	0.49
29:B1:890:C:O2	29:B1:2324:A:H2	1.95	0.49
29:B1:913:A:H1'	29:B1:2147:A:O4'	2.13	0.49
29:B1:977:C:O2'	29:B1:978:G:OP2	2.30	0.49
29:B1:1110:U:H5"	29:B1:1111:U:OP2	2.13	0.49
29:B1:1193:A:H5"	29:B1:1194:G:OP2	2.13	0.49
29:B1:1292:C:O2	29:B1:1292:C:C2'	2.59	0.49
29:B1:1352:A:C8	29:B1:1353:U:O4'	2.66	0.49
29:B1:1428:A:C2	29:B1:1430:U:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1525:G:C8	29:B1:1829:G:C4	3.01	0.49
29:B1:1543:G:OP1	44:BO:35:VAL:N	2.43	0.49
29:B1:1561:G:C6	29:B1:1562:C:C4	3.01	0.49
29:B1:1651:U:H2'	29:B1:1652:G:C8	2.48	0.49
29:B1:1700:G:C6	29:B1:1701:C:C4	3.01	0.49
29:B1:1731:A:N6	29:B1:1732:U:N3	2.61	0.49
29:B1:1945:A:H2'	29:B1:1946:A:H8	1.78	0.49
29:B1:2276:G:N7	29:B1:2277:C:C5	2.80	0.49
29:B1:2522:G:O2'	29:B1:2522:G:N3	2.45	0.49
29:B1:2522:G:O6	29:B1:2587:U:C4	2.66	0.49
29:B1:2582:C:H3'	29:B1:2583:C:H6	1.76	0.49
29:B1:2607:G:C2	29:B1:2608:G:C4	3.00	0.49
29:B1:2615:G:C4	29:B1:2616:C:C5	3.01	0.49
29:B1:2728:G:C2	29:B1:2729:U:C5	3.01	0.49
29:B1:2980:U:O2	29:B1:2981:U:C6	2.65	0.49
29:B1:3180:A:C8	45:BP:114:LYS:HA	2.47	0.49
29:B1:3226:A:H8	29:B1:3226:A:O5'	1.96	0.49
29:B1:3280:U:O2	29:B1:3281:U:C5	2.66	0.49
29:B1:3337:G:C6	29:B1:3338:C:C4	3.01	0.49
30:B2:78:U:C2	30:B2:79:A:H8	2.31	0.49
30:B2:107:C:H2'	30:B2:108:A:O4'	2.13	0.49
31:B3:1:A:N1	31:B3:2:A:C5	2.81	0.49
32:BA:53:LEU:CB	32:BA:54:LYS:CA	2.91	0.49
33:BB:120:PRO:O	33:BB:121:GLY:C	2.55	0.49
36:BE:53:VAL:HA	36:BE:62:CYS:HA	1.95	0.49
42:BK:85:LYS:O	42:BK:88:GLU:N	2.45	0.49
44:BO:53:TYR:O	44:BO:54:LYS:C	2.56	0.49
50:BU:65:GLY:O	50:BU:67:PRO:N	2.46	0.49
54:BY:90:TYR:O	54:BY:91:LEU:CB	2.61	0.49
55:BZ:9:SER:O	55:BZ:13:LYS:N	2.46	0.49
55:BZ:68:TYR:O	55:BZ:69:TYR:C	2.56	0.49
57:Bb:40:SER:O	57:Bb:42:VAL:N	2.46	0.49
62:Bg:58:SER:C	62:Bg:60:CYS:N	2.68	0.49
62:Bg:65:ALA:O	62:Bg:66:GLY:O	2.31	0.49
64:Bi:3:UNK:O	64:Bi:4:UNK:C	2.61	0.49
65:Bk:9:UNK:O	65:Bk:11:UNK:N	2.46	0.49
1:C1:93:A:N6	1:C1:398:G:C6	2.80	0.49
1:C1:160:C:O2'	1:C1:161:U:O5'	2.22	0.49
1:C1:170:U:H3'	1:C1:171:A:C5'	2.43	0.49
1:C1:242:U:H3'	1:C1:242:U:O2	2.13	0.49
1:C1:266:A:O3'	1:C1:267:U:O4'	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:316:A:C6	1:C1:317:C:C5	3.01	0.49
1:C1:610:G:N2	1:C1:614:C:C4	2.81	0.49
1:C1:647:G:C6	1:C1:687:G:N1	2.81	0.49
1:C1:653:C:C2	1:C1:662:U:H1'	2.48	0.49
1:C1:1045:C:O2	1:C1:1045:C:C2'	2.34	0.49
1:C1:1116:A:C5	1:C1:1131:A:N7	2.81	0.49
1:C1:1454:G:C3'	1:C1:1455:G:H5'	2.42	0.49
1:C1:1477:G:C2'	1:C1:1478:G:H5"	2.43	0.49
1:C1:1585:U:H5	1:C1:1610:G:N2	2.09	0.49
3:CB:45:VAL:O	3:CB:46:LYS:CB	2.61	0.49
4:CC:61:GLU:C	4:CC:63:GLY:N	2.71	0.49
4:CC:114:ALA:O	4:CC:118:ALA:HB2	2.13	0.49
5:CD:57:SER:O	5:CD:59:VAL:N	2.45	0.49
5:CD:91:GLU:O	5:CD:92:ARG:C	2.55	0.49
10:CI:25:LEU:O	10:CI:28:MET:CB	2.61	0.49
11:CJ:131:GLY:HA3	11:CJ:138:PHE:H	1.77	0.49
16:CO:23:ARG:O	16:CO:24:GLN:O	2.31	0.49
20:CS:38:ILE:O	20:CS:39:CYS:C	2.55	0.49
21:CT:227:ALA:O	21:CT:228:LYS:C	2.56	0.49
28:Ch:60:UNK:O	28:Ch:63:UNK:N	2.45	0.49
29:D1:6:A:C6	29:D1:7:C:C5	3.01	0.49
29:D1:53:G:N2	29:D1:1546:A:C2	2.81	0.49
29:D1:331:G:N1	31:D3:33:A:C2	2.81	0.49
29:D1:359:U:H2'	29:D1:360:G:O4'	2.13	0.49
29:D1:393:U:N3	29:D1:394:G:N7	2.61	0.49
29:D1:421:G:C2	29:D1:2365:C:N1	2.80	0.49
29:D1:691:A:C3'	29:D1:692:A:H5'	2.43	0.49
29:D1:1025:A:C5'	29:D1:1028:U:H3	2.25	0.49
29:D1:1076:C:H3'	29:D1:1077:U:C6	2.48	0.49
29:D1:1128:U:O2	29:D1:1129:A:H1'	2.13	0.49
29:D1:1144:U:H6	29:D1:1144:U:C5'	2.24	0.49
29:D1:1366:A:H2'	29:D1:1367:G:H8	1.74	0.49
29:D1:1393:A:C2	29:D1:1394:A:N9	2.80	0.49
29:D1:1479:U:OP2	29:D1:1480:G:N2	2.45	0.49
29:D1:1638:A:C2	29:D1:1736:G:N2	2.80	0.49
29:D1:1678:G:H5"	29:D1:1756:C:O3'	2.12	0.49
29:D1:1948:G:H1'	29:D1:2100:A:N6	2.28	0.49
29:D1:2111:G:N2	51:DV:49:ILE:CA	2.65	0.49
29:D1:2270:A:H2'	29:D1:2271:A:H8	1.74	0.49
29:D1:2316:G:N3	29:D1:2317:A:C8	2.81	0.49
29:D1:2987:A:C4	29:D1:2988:C:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3073:A:C6	29:D1:3074:G:C5	3.01	0.49
29:D1:3141:A:N3	29:D1:3143:C:O3'	2.46	0.49
29:D1:3160:U:N3	29:D1:3161:C:C5	2.80	0.49
29:D1:3174:A:H1'	29:D1:3175:U:C5'	2.36	0.49
29:D1:3203:U:C2'	29:D1:3204:C:C6	2.92	0.49
29:D1:3344:A:N6	29:D1:3362:A:C2	2.81	0.49
29:D1:3366:G:C2	29:D1:3367:C:C4	3.01	0.49
29:D1:3384:U:C4	29:D1:3385:U:C4	3.01	0.49
30:D2:60:G:N1	30:D2:61:G:C5	2.81	0.49
30:D2:67:G:C2	30:D2:68:C:N1	2.80	0.49
30:D2:75:G:H21	30:D2:105:C:H41	1.59	0.49
30:D2:95:A:C2	30:D2:96:U:C4	3.01	0.49
31:D3:2:A:C2'	31:D3:3:A:H5'	2.42	0.49
34:DC:289:ASP:H	34:DC:290:ASP:CB	2.26	0.49
35:DD:10:SER:HA	35:DD:17:ALA:N	2.26	0.49
36:DE:159:VAL:C	36:DE:161:GLY:N	2.58	0.49
36:DE:204:VAL:O	36:DE:207:TYR:N	2.44	0.49
37:DF:117:LYS:O	37:DF:118:GLU:O	2.31	0.49
40:DI:166:ARG:O	40:DI:167:VAL:CB	2.60	0.49
73:DM:60:ARG:O	73:DM:62:ALA:N	2.45	0.49
48:DS:59:SER:C	48:DS:61:SER:H	2.19	0.49
50:DU:127:PRO:O	50:DU:130:ALA:CB	2.61	0.49
59:Dd:39:TYR:HA	59:Dd:40:PRO:HA	1.56	0.49
62:Dg:59:CYS:CB	74:Dg:101:OHX:N2	2.76	0.49
1:A1:18:C:H2'	1:A1:19:A:O4'	2.13	0.48
1:A1:26:A:C2	1:A1:600:U:N3	2.70	0.48
1:A1:72:A:H2'	1:A1:72:A:N3	2.28	0.48
1:A1:114:C:H42	1:A1:250:C:H4'	1.77	0.48
1:A1:229:U:H2'	1:A1:230:C:C6	2.48	0.48
1:A1:252:U:HO2'	1:A1:253:A:C5'	2.25	0.48
1:A1:283:U:C3'	1:A1:284:G:C4'	2.91	0.48
1:A1:377:G:O2'	1:A1:378:A:P	2.71	0.48
1:A1:611:U:C5	1:A1:612:U:C5	3.01	0.48
1:A1:732:G:H2'	1:A1:732:G:N3	2.28	0.48
1:A1:847:A:C2'	1:A1:848:C:H5"	2.41	0.48
1:A1:931:C:C2'	1:A1:932:U:OP1	2.61	0.48
1:A1:1054:U:H2'	1:A1:1055:U:C6	2.48	0.48
1:A1:1183:A:C6	1:A1:1184:A:C6	3.01	0.48
1:A1:1363:U:C2'	1:A1:1364:G:C8	2.96	0.48
1:A1:1363:U:H3'	1:A1:1364:G:H8	1.78	0.48
1:A1:1649:G:N7	74:A1:1969:OHX:N3	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1720:G:C5	1:A1:1721:A:C5	3.00	0.48
3:AB:126:ARG:C	3:AB:128:GLY:H	2.21	0.48
4:AC:156:PHE:O	4:AC:157:LEU:CB	2.60	0.48
6:AE:79:ARG:O	6:AE:81:VAL:CB	2.60	0.48
28:Ah:56:UNK:HA	29:B1:3352:U:C5	2.45	0.48
29:B1:9:U:C4	29:B1:10:C:H5	2.31	0.48
29:B1:177:U:C2	29:B1:178:U:C6	3.01	0.48
29:B1:224:C:H2'	29:B1:225:C:O5'	2.13	0.48
29:B1:314:U:C2	29:B1:315:C:C5	3.02	0.48
29:B1:373:A:C2	29:B1:375:A:N7	2.81	0.48
29:B1:397:A:C4	29:B1:399:A:N7	2.81	0.48
29:B1:407:A:N1	31:B3:17:A:C1'	2.75	0.48
29:B1:420:G:C5	29:B1:2384:A:C2	3.01	0.48
29:B1:526:C:C2	29:B1:527:A:C8	3.01	0.48
29:B1:576:C:HO2'	29:B1:577:C:P	2.36	0.48
29:B1:601:U:H2'	29:B1:601:U:O2	2.13	0.48
29:B1:643:U:H2'	29:B1:644:G:O4'	2.13	0.48
29:B1:771:A:H61	29:B1:772:U:H3	1.60	0.48
29:B1:789:A:C4	29:B1:790:U:C5	3.01	0.48
29:B1:829:U:C4'	29:B1:866:A:C2	2.86	0.48
29:B1:874:U:C2'	29:B1:875:G:OP2	2.60	0.48
29:B1:964:G:OP2	29:B1:1115:G:O6	2.30	0.48
29:B1:993:G:H21	29:B1:2637:A:C3'	2.09	0.48
29:B1:1132:C:C2'	29:B1:1133:A:O5'	2.61	0.48
29:B1:1256:G:H2'	29:B1:1256:G:N3	2.27	0.48
29:B1:1351:U:H2'	29:B1:1352:A:C4	2.48	0.48
29:B1:1428:A:C4	29:B1:1430:U:C5	3.01	0.48
29:B1:1444:G:H2'	29:B1:1445:U:C5'	2.42	0.48
29:B1:1450:G:N3	29:B1:1451:C:C5	2.81	0.48
29:B1:1451:C:O2	29:B1:1451:C:C2'	2.60	0.48
29:B1:1532:C:C2	29:B1:1591:G:C2	3.01	0.48
29:B1:1594:A:H1'	29:B1:1615:C:C1'	2.43	0.48
29:B1:1644:C:OP1	29:B1:1821:U:N3	2.45	0.48
29:B1:1710:C:H6	29:B1:1710:C:H5"	1.78	0.48
29:B1:1735:G:H2'	29:B1:1735:G:N3	2.28	0.48
29:B1:1757:A:O2'	29:B1:1758:G:H5'	2.13	0.48
29:B1:1766:G:C2	29:B1:1767:C:C6	3.01	0.48
29:B1:1787:A:C6	29:B1:1788:C:C5	3.01	0.48
29:B1:1912:U:C1'	29:B1:1913:A:OP1	2.61	0.48
29:B1:1913:A:C2	29:B1:2120:A:C8	3.01	0.48
29:B1:2264:U:H6	29:B1:2264:U:O5'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2590:A:C6	29:B1:2591:A:C8	3.00	0.48
29:B1:2684:C:H4'	29:B1:2684:C:OP1	2.12	0.48
29:B1:2687:G:H3'	29:B1:2687:G:C4	2.43	0.48
29:B1:2689:A:C4	29:B1:2702:A:H2	2.29	0.48
29:B1:2892:A:O4'	29:B1:3130:A:C8	2.66	0.48
29:B1:3072:C:O2'	29:B1:3073:A:H5'	2.12	0.48
29:B1:3090:U:HO2'	29:B1:3091:A:P	2.31	0.48
29:B1:3225:C:N3	29:B1:3261:C:N3	2.60	0.48
29:B1:3240:C:H5	74:B1:3469:OHX:N6	2.10	0.48
29:B1:3315:G:OP1	29:B1:3316:A:OP1	2.31	0.48
29:B1:3353:G:O6	29:B1:3356:G:C5	2.66	0.48
30:B2:13:A:N3	30:B2:13:A:C2'	2.67	0.48
30:B2:98:C:C5'	30:B2:99:G:OP2	2.59	0.48
31:B3:81:U:C4	31:B3:82:U:O4'	2.66	0.48
33:BB:109:GLU:O	33:BB:110:GLY:O	2.31	0.48
36:BE:67:SER:O	36:BE:68:THR:CB	2.61	0.48
36:BE:123:GLU:O	36:BE:124:GLU:C	2.56	0.48
41:BJ:205:SER:CB	41:BJ:206:LEU:HA	2.43	0.48
43:BN:61:GLY:O	43:BN:62:GLN:CB	2.61	0.48
43:BN:93:LYS:O	43:BN:94:TRP:C	2.55	0.48
43:BN:107:GLU:O	43:BN:109:ARG:N	2.46	0.48
45:BP:63:ALA:HB2	45:BP:69:GLY:CA	2.41	0.48
47:BR:36:LEU:O	47:BR:37:ALA:O	2.31	0.48
48:BS:141:HIS:O	48:BS:142:ILE:C	2.55	0.48
50:BU:30:GLY:O	50:BU:32:ARG:N	2.46	0.48
50:BU:130:ALA:O	50:BU:131:SER:C	2.55	0.48
70:Bq:8:UNK:O	70:Bq:9:UNK:C	2.61	0.48
1:C1:15:U:C2	1:C1:16:G:C8	3.01	0.48
1:C1:123:G:N1	1:C1:295:A:C6	2.81	0.48
1:C1:129:U:O2'	1:C1:130:C:OP1	2.28	0.48
1:C1:130:C:H3'	1:C1:131:C:H4'	1.95	0.48
1:C1:523:G:H2'	1:C1:524:U:N3	2.28	0.48
1:C1:583:C:C2	1:C1:584:C:C6	3.01	0.48
1:C1:623:A:N1	1:C1:1105:C:C4'	2.76	0.48
1:C1:659:C:H3'	1:C1:659:C:OP2	2.12	0.48
1:C1:745:U:H2'	1:C1:745:U:O2	2.11	0.48
1:C1:804:A:C5	1:C1:805:U:C4	3.01	0.48
1:C1:929:A:N7	1:C1:930:A:N7	2.61	0.48
1:C1:974:A:C2	1:C1:975:C:C2	3.01	0.48
1:C1:1050:G:N3	1:C1:1051:G:H1'	2.28	0.48
1:C1:1235:C:H2'	1:C1:1236:A:C8	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1346:A:C5	1:C1:1347:U:H1'	2.48	0.48
1:C1:1374:C:C5	1:C1:1375:A:N6	2.80	0.48
1:C1:1377:U:C3'	1:C1:1378:U:H4'	2.43	0.48
1:C1:1381:U:O2'	15:CN:59:PRO:CA	2.61	0.48
1:C1:1395:G:C2'	1:C1:1396:U:H5'	2.43	0.48
1:C1:1453:G:C4	1:C1:1454:G:C8	3.01	0.48
1:C1:1454:G:N2	1:C1:1455:G:C1'	2.76	0.48
1:C1:1458:G:OP1	13:CL:138:THR:O	2.31	0.48
1:C1:1486:G:C6	1:C1:1487:A:C6	3.01	0.48
1:C1:1498:G:C2	1:C1:1499:G:N7	2.81	0.48
1:C1:1554:U:C4	1:C1:1555:A:C8	3.01	0.48
1:C1:1583:A:H1'	1:C1:1585:U:C2	2.47	0.48
1:C1:1588:G:H5"	1:C1:1589:C:OP2	2.12	0.48
1:C1:1600:A:C8	1:C1:1602:C:C5	3.01	0.48
1:C1:1778:G:C6	1:C1:1779:U:O4	2.66	0.48
11:CJ:10:PHE:N	11:CJ:19:VAL:HA	2.28	0.48
14:CM:17:ALA:O	14:CM:19:ALA:N	2.45	0.48
14:CM:101:ASN:C	14:CM:103:LYS:N	2.70	0.48
15:CN:68:ARG:HA	15:CN:79:TRP:CA	2.09	0.48
17:CP:58:GLY:CA	17:CP:70:LYS:HA	2.43	0.48
29:D1:126:U:N3	29:D1:127:G:C5	2.81	0.48
29:D1:279:U:C2	29:D1:286:U:N3	2.76	0.48
29:D1:383:G:N2	29:D1:386:A:OP2	2.45	0.48
29:D1:396:A:O2'	29:D1:397:A:C5'	2.61	0.48
29:D1:401:U:H3'	29:D1:402:A:C5'	2.43	0.48
29:D1:573:C:H2'	29:D1:574:U:H6	1.72	0.48
29:D1:722:G:N1	29:D1:749:C:C5	2.78	0.48
29:D1:725:G:N1	29:D1:744:A:N6	2.61	0.48
29:D1:759:U:OP1	74:D1:3514:OHX:N2	2.46	0.48
29:D1:777:U:O2'	29:D1:778:U:O5'	2.30	0.48
29:D1:783:A:N6	74:D1:3537:OHX:N3	2.54	0.48
29:D1:808:A:C5	29:D1:809:G:C8	3.01	0.48
29:D1:946:U:H2'	29:D1:947:G:H5'	1.94	0.48
29:D1:952:A:C8	29:D1:952:A:C3'	2.95	0.48
29:D1:1197:A:O2'	29:D1:1198:C:O5'	2.31	0.48
29:D1:1274:A:C2	29:D1:1275:C:C6	3.01	0.48
29:D1:1303:A:C8	29:D1:1304:A:C2	3.00	0.48
29:D1:1367:G:H8	29:D1:1367:G:O5'	1.96	0.48
29:D1:1481:A:H1'	29:D1:1858:A:C2	2.48	0.48
29:D1:1677:G:C4	29:D1:1678:G:C8	3.01	0.48
29:D1:1795:U:O4'	29:D1:1796:G:C2	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1858:A:H2'	29:D1:1859:A:OP1	2.12	0.48
29:D1:2110:G:O6	29:D1:2113:A:N6	2.46	0.48
29:D1:2147:A:H8	29:D1:2147:A:O5'	1.96	0.48
29:D1:2249:G:C1'	29:D1:2272:G:C8	2.96	0.48
29:D1:2295:A:H62	29:D1:2296:A:H61	1.60	0.48
29:D1:2582:C:O2	29:D1:2582:C:C2'	2.60	0.48
29:D1:2606:G:O2'	29:D1:2607:G:OP2	2.27	0.48
29:D1:2771:U:H2'	29:D1:2772:C:O4'	2.13	0.48
29:D1:2841:G:C5	29:D1:2844:C:C4	3.01	0.48
29:D1:2858:U:C2'	29:D1:2859:U:C5	2.96	0.48
29:D1:2876:C:H2'	29:D1:2877:G:C5'	2.43	0.48
29:D1:2965:U:O2'	29:D1:2966:G:H5'	2.13	0.48
29:D1:3013:U:C6	29:D1:3013:U:H5'	2.46	0.48
29:D1:3072:C:C6	29:D1:3073:A:C8	3.00	0.48
29:D1:3103:A:C2	29:D1:3132:C:C2	3.01	0.48
29:D1:3298:C:C2	29:D1:3299:A:N7	2.81	0.48
30:D2:11:A:O5'	30:D2:13:A:C4	2.66	0.48
30:D2:41:G:C5'	30:D2:42:A:OP2	2.53	0.48
30:D2:55:A:O2'	30:D2:56:A:O4'	2.31	0.48
30:D2:66:A:C4	30:D2:67:G:H8	2.31	0.48
30:D2:98:C:H3'	30:D2:99:G:C5'	2.32	0.48
31:D3:50:C:O2'	31:D3:51:G:O5'	2.26	0.48
31:D3:101:U:C2'	31:D3:102:U:O5'	2.60	0.48
35:DD:39:PHE:O	35:DD:41:SER:C	2.56	0.48
35:DD:121:ALA:O	35:DD:122:THR:C	2.56	0.48
36:DE:40:HIS:N	36:DE:41:LYS:CB	2.76	0.48
36:DE:227:LEU:CA	36:DE:228:ALA:HB3	2.42	0.48
39:DH:105:LYS:N	39:DH:108:ARG:CB	2.76	0.48
41:DJ:39:LYS:C	41:DJ:41:ALA:N	2.70	0.48
72:DL:31:LYS:O	72:DL:32:ILE:C	2.56	0.48
43:DN:10:SER:H	43:DN:11:ASN:CA	2.22	0.48
45:DP:58:LEU:HA	45:DP:61:ALA:CB	2.41	0.48
47:DR:25:TYR:O	47:DR:26:LEU:C	2.56	0.48
57:Db:110:ALA:O	57:Db:113:LYS:N	2.46	0.48
1:A1:71:A:C2	1:A1:72:A:N7	2.79	0.48
1:A1:145:A:N6	1:A1:146:U:C4	2.81	0.48
1:A1:168:A:C3'	1:A1:169:A:C8	2.94	0.48
1:A1:401:A:C2	1:A1:404:G:N7	2.80	0.48
1:A1:404:G:C4	1:A1:405:C:C5	3.01	0.48
1:A1:649:U:O4	1:A1:685:A:C6	2.66	0.48
1:A1:734:A:H3'	1:A1:735:C:H2'	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:737:A:H1'	1:A1:738:G:C8	2.49	0.48
1:A1:814:A:C8	1:A1:816:G:N3	2.81	0.48
1:A1:951:A:H2'	1:A1:952:A:O4'	2.13	0.48
1:A1:973:A:C2	1:A1:974:A:N7	2.82	0.48
1:A1:977:A:N6	1:A1:1025:A:C4	2.81	0.48
1:A1:1119:G:C4	1:A1:1120:U:C5	3.01	0.48
1:A1:1147:A:C5	1:A1:1148:C:C5	3.01	0.48
1:A1:1367:G:O6	74:A1:1935:OHX:N6	2.46	0.48
1:A1:1499:G:H2'	1:A1:1500:C:C6	2.45	0.48
1:A1:1598:U:C4	1:A1:1599:C:C5	3.00	0.48
1:A1:1608:U:H2'	1:A1:1609:U:C6	2.48	0.48
3:AB:188:LEU:O	3:AB:191:ALA:N	2.46	0.48
4:AC:119:ALA:C	4:AC:121:GLY:N	2.68	0.48
4:AC:192:PRO:O	4:AC:193:ALA:HB3	2.13	0.48
8:AG:109:LYS:C	8:AG:111:ALA:N	2.71	0.48
9:AH:21:ALA:H	9:AH:85:ALA:HB2	1.75	0.48
9:AH:33:LEU:O	9:AH:34:SER:C	2.56	0.48
16:AO:88:LYS:O	16:AO:91:ALA:N	2.45	0.48
20:AS:41:GLN:N	74:AS:101:OHX:N3	2.58	0.48
21:AT:219:GLU:CB	21:AT:235:SER:HA	2.44	0.48
24:Ac:88:UNK:O	24:Ac:89:UNK:C	2.61	0.48
29:B1:40:A:C5	54:BY:30:GLY:HA2	2.48	0.48
29:B1:95:A:H5"	54:BY:34:MET:O	2.13	0.48
29:B1:198:A:C1'	29:B1:218:G:N3	2.72	0.48
29:B1:214:G:H2'	29:B1:215:G:C8	2.48	0.48
29:B1:533:A:C6	29:B1:555:U:C6	3.01	0.48
29:B1:552:G:C2	29:B1:553:U:C2	3.01	0.48
29:B1:776:U:C6	29:B1:777:U:O4'	2.66	0.48
29:B1:952:A:C2	29:B1:1114:U:H4'	2.49	0.48
29:B1:994:G:O2'	29:B1:1053:A:N6	2.36	0.48
29:B1:1024:G:C2'	29:B1:1025:A:H5'	2.42	0.48
29:B1:1143:A:C8	29:B1:1368:U:N3	2.80	0.48
29:B1:1144:U:C6	29:B1:1144:U:C5'	2.96	0.48
29:B1:1220:U:C5	29:B1:1286:A:N7	2.81	0.48
29:B1:1289:G:O2'	29:B1:1290:A:P	2.70	0.48
29:B1:1451:C:O2	29:B1:1451:C:H2'	2.12	0.48
29:B1:1500:G:H2'	29:B1:1501:U:H6	1.77	0.48
29:B1:1573:G:H3'	29:B1:1574:C:C6	2.48	0.48
29:B1:1573:G:H3'	29:B1:1574:C:H6	1.77	0.48
29:B1:1704:A:N6	29:B1:1739:U:O4	2.44	0.48
29:B1:1708:C:OP2	29:B1:1708:C:H6	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2128:C:C4	29:B1:2129:U:C4	3.01	0.48
29:B1:2148:U:H3'	29:B1:2187:G:H22	1.78	0.48
29:B1:2280:A:O2'	29:B1:2281:A:O5'	2.26	0.48
29:B1:2390:A:H5'	29:B1:3307:A:H2	1.78	0.48
29:B1:2416:U:N3	29:B1:2417:U:O4	2.46	0.48
29:B1:2476:C:H2'	29:B1:2477:G:O4'	2.13	0.48
29:B1:2513:U:H5	29:B1:2591:A:N6	2.11	0.48
29:B1:2585:G:C8	31:B3:151:C:C2	3.01	0.48
29:B1:2594:C:C6	29:B1:2595:A:N7	2.81	0.48
29:B1:2964:G:C5	29:B1:2966:G:OP2	2.66	0.48
29:B1:3000:A:N3	29:B1:3001:C:C5	2.81	0.48
29:B1:3027:A:C5	29:B1:3028:G:C5	3.01	0.48
29:B1:3111:U:OP2	74:B1:3434:OHX:N1	2.46	0.48
29:B1:3140:G:H8	29:B1:3140:G:C5'	2.12	0.48
29:B1:3191:G:N1	29:B1:3202:G:C2	2.81	0.48
29:B1:3327:G:N2	29:B1:3379:C:N1	2.61	0.48
29:B1:3356:G:H2'	29:B1:3357:U:O4'	2.13	0.48
29:B1:3371:G:O6	29:B1:3372:A:N1	2.46	0.48
29:B1:3377:G:C1'	74:B1:3450:OHX:N2	2.76	0.48
30:B2:88:G:N3	30:B2:89:G:C8	2.81	0.48
31:B3:8:C:C4	31:B3:9:A:N7	2.81	0.48
31:B3:74:U:H4'	31:B3:89:A:C4	2.48	0.48
31:B3:78:G:H8	31:B3:78:G:O5'	1.96	0.48
31:B3:105:A:C4'	31:B3:106:C:C5	2.91	0.48
34:BC:145:GLU:O	34:BC:149:ALA:N	2.46	0.48
34:BC:319:ASN:O	34:BC:320:ASP:CB	2.61	0.48
38:BG:126:LEU:O	38:BG:127:LEU:C	2.54	0.48
38:BG:194:HIS:O	38:BG:195:PHE:C	2.57	0.48
44:BO:105:ARG:O	44:BO:106:VAL:C	2.55	0.48
46:BQ:83:TRP:O	46:BQ:85:ALA:N	2.46	0.48
50:BU:24:ASN:O	50:BU:99:ALA:CB	2.60	0.48
51:BV:39:LEU:O	51:BV:40:PHE:C	2.56	0.48
51:BV:41:LYS:C	51:BV:43:ARG:N	2.63	0.48
54:BY:147:LEU:O	54:BY:148:ILE:CB	2.61	0.48
61:Bf:52:GLY:O	61:Bf:53:GLN:CB	2.60	0.48
71:Br:2:UNK:O	71:Br:6:UNK:CB	2.61	0.48
1:C1:96:G:N1	1:C1:97:C:C4	2.81	0.48
1:C1:160:C:O2'	1:C1:161:U:P	2.70	0.48
1:C1:190:C:H42	1:C1:192:U:H3	1.60	0.48
1:C1:342:C:O2	1:C1:342:C:C2'	2.60	0.48
1:C1:356:G:OP2	74:C1:1924:OHX:N3	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:556:A:C5'	1:C1:558:U:OP2	2.53	0.48
1:C1:586:G:C5	1:C1:587:C:C4	3.01	0.48
1:C1:618:U:H5"	1:C1:1030:A:N1	2.28	0.48
1:C1:631:G:C2'	1:C1:632:U:H5'	2.43	0.48
1:C1:752:A:H8	1:C1:752:A:O5'	1.97	0.48
1:C1:814:A:C4	1:C1:816:G:C2	3.01	0.48
1:C1:830:U:OP1	1:C1:830:U:H3'	2.12	0.48
1:C1:973:A:H4'	29:D1:848:A:C4	2.47	0.48
1:C1:1030:A:N3	1:C1:1030:A:O2'	2.46	0.48
1:C1:1046:G:C6	1:C1:1073:G:C2	3.01	0.48
1:C1:1263:G:C5	1:C1:1264:G:C8	3.01	0.48
1:C1:1378:U:P	1:C1:1379:C:OP2	2.72	0.48
1:C1:1378:U:C2	1:C1:1379:C:O4'	2.66	0.48
1:C1:1389:C:H3'	1:C1:1389:C:O2	2.13	0.48
1:C1:1420:C:C6	1:C1:1420:C:C3'	2.97	0.48
1:C1:1484:G:H22	1:C1:1605:G:N2	2.11	0.48
1:C1:1511:U:H2'	1:C1:1512:G:H8	1.78	0.48
1:C1:1538:U:C5	1:C1:1540:G:C8	3.01	0.48
1:C1:1622:G:C5	1:C1:1623:C:C5	3.01	0.48
1:C1:1686:C:C4	1:C1:1687:U:O4	2.66	0.48
3:CB:118:ALA:HB2	3:CB:124:ALA:CB	2.40	0.48
10:CI:84:ILE:O	10:CI:85:ILE:C	2.56	0.48
13:CL:121:ALA:C	13:CL:123:ARG:N	2.70	0.48
14:CM:15:ILE:O	14:CM:19:ALA:N	2.47	0.48
29:D1:22:G:C4	29:D1:23:A:H8	2.27	0.48
29:D1:26:A:H3'	29:D1:27:C:H6	1.78	0.48
29:D1:40:A:H3'	29:D1:41:G:C5'	2.42	0.48
29:D1:104:G:C6	29:D1:105:C:C5	3.01	0.48
29:D1:160:G:C2'	29:D1:161:G:O5'	2.62	0.48
29:D1:160:G:H3'	29:D1:160:G:OP2	2.13	0.48
29:D1:211:A:H5'	29:D1:229:G:H1'	1.94	0.48
29:D1:249:U:O2	29:D1:249:U:H5"	2.13	0.48
29:D1:532:A:C3'	29:D1:533:A:C8	2.95	0.48
29:D1:533:A:H2'	29:D1:534:U:C6	2.48	0.48
29:D1:533:A:O2'	29:D1:534:U:N1	2.44	0.48
29:D1:610:G:C5'	29:D1:611:A:OP2	2.59	0.48
29:D1:681:U:O2'	29:D1:682:U:P	2.71	0.48
29:D1:867:G:H1	29:D1:892:U:H3	1.60	0.48
29:D1:895:A:C8	29:D1:897:U:H1'	2.49	0.48
29:D1:957:C:O3'	29:D1:2799:A:H8	1.96	0.48
29:D1:1077:U:HO2'	29:D1:1078:U:H6	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1393:A:N7	29:D1:1418:A:C5	2.81	0.48
29:D1:1453:A:O4'	29:D1:1850:A:N1	2.45	0.48
29:D1:1525:G:H1'	29:D1:1829:G:C2	2.47	0.48
29:D1:1609:C:HO2'	29:D1:1610:G:P	2.36	0.48
29:D1:1682:U:H5'	29:D1:1683:A:OP2	2.13	0.48
29:D1:1953:G:C5	29:D1:2093:A:C5	3.01	0.48
29:D1:2308:C:N4	29:D1:2309:A:C6	2.81	0.48
29:D1:2407:C:H1'	29:D1:2818:U:O2	2.12	0.48
29:D1:2432:A:H2'	29:D1:2432:A:N3	2.28	0.48
29:D1:2476:C:H2'	29:D1:2477:G:O4'	2.13	0.48
29:D1:2504:U:C4	29:D1:2505:U:C4	3.02	0.48
29:D1:2684:C:H4'	29:D1:2684:C:OP1	2.13	0.48
29:D1:2732:G:C5	29:D1:2733:A:N7	2.81	0.48
29:D1:2743:A:C6	29:D1:2744:U:C4	3.00	0.48
29:D1:2824:G:H2'	29:D1:2825:C:C6	2.48	0.48
29:D1:3009:G:O6	74:D1:3434:OHX:N4	2.46	0.48
29:D1:3055:U:O3'	29:D1:3056:U:C5	2.66	0.48
29:D1:3176:G:O6	29:D1:3212:C:N3	2.46	0.48
29:D1:3202:G:C2	29:D1:3203:U:O2	2.66	0.48
29:D1:3314:A:H3'	34:DC:118:PHE:C	2.37	0.48
29:D1:3326:G:C4	29:D1:3327:G:C8	3.01	0.48
29:D1:3373:U:C4	29:D1:3374:U:H5	2.30	0.48
29:D1:3384:U:H2'	29:D1:3385:U:H6	1.75	0.48
30:D2:77:G:N2	30:D2:101:G:H2'	2.28	0.48
30:D2:82:G:C6	30:D2:99:G:C6	3.01	0.48
30:D2:116:C:H2'	30:D2:117:A:C8	2.48	0.48
31:D3:8:C:C2'	31:D3:9:A:H8	2.18	0.48
31:D3:56:G:N3	31:D3:57:C:C6	2.81	0.48
34:DC:305:ILE:C	34:DC:307:PRO:N	2.71	0.48
35:DD:85:SER:C	35:DD:87:GLN:N	2.71	0.48
35:DD:134:LEU:C	35:DD:136:LEU:H	2.20	0.48
40:DI:51:GLN:CB	40:DI:52:LEU:HA	2.43	0.48
41:DJ:206:LEU:O	41:DJ:207:GLU:C	2.56	0.48
44:DO:126:THR:O	44:DO:127:TYR:CB	2.61	0.48
45:DP:74:ARG:O	45:DP:75:ALA:O	2.31	0.48
46:DQ:128:ARG:HA	46:DQ:137:ASN:O	2.13	0.48
51:DV:14:TYR:O	51:DV:15:PRO:C	2.56	0.48
52:DW:87:SER:O	52:DW:90:ALA:N	2.45	0.48
59:Dd:42:ALA:C	59:Dd:44:THR:N	2.69	0.48
60:De:12:LYS:O	60:De:13:MET:C	2.54	0.48
60:De:26:TRP:O	60:De:27:ILE:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Dg:12:GLY:O	62:Dg:15:GLY:N	2.46	0.48
1:A1:23:G:H2'	1:A1:24:U:O4'	2.13	0.48
1:A1:96:G:C6	1:A1:97:C:C4	3.01	0.48
1:A1:100:A:C6	1:A1:101:U:C4	3.02	0.48
1:A1:103:A:C5	1:A1:360:A:C2	3.02	0.48
1:A1:313:U:C5	1:A1:1118:G:C6	3.01	0.48
1:A1:426:G:H21	1:A1:459:G:H2'	1.78	0.48
1:A1:454:U:O2'	1:A1:455:C:O5'	2.30	0.48
1:A1:610:G:N2	1:A1:614:C:C4	2.81	0.48
1:A1:931:C:H2'	1:A1:932:U:OP1	2.12	0.48
1:A1:1112:G:C8	1:A1:1113:A:N7	2.81	0.48
1:A1:1270:G:H1'	1:A1:1447:C:O2	2.13	0.48
1:A1:1348:A:OP1	15:AN:12:GLN:O	2.30	0.48
1:A1:1388:A:C5	1:A1:1412:G:C6	3.01	0.48
1:A1:1560:U:C5	1:A1:1560:U:OP2	2.66	0.48
1:A1:1650:U:H2'	1:A1:1650:U:O2	2.12	0.48
1:A1:1664:C:O2	1:A1:1664:C:H2'	2.12	0.48
2:AA:3:LEU:C	2:AA:5:ALA:H	2.21	0.48
4:AC:121:GLY:O	4:AC:122:VAL:C	2.56	0.48
4:AC:121:GLY:O	4:AC:124:ARG:N	2.47	0.48
6:AE:117:GLY:O	6:AE:118:LEU:C	2.56	0.48
14:AM:17:ALA:HB2	14:AM:59:ALA:HB2	1.94	0.48
23:Ab:84:UNK:C	23:Ab:86:UNK:N	2.74	0.48
29:B1:31:C:H2'	29:B1:32:U:O4'	2.13	0.48
29:B1:80:G:C6	29:B1:106:A:C6	3.01	0.48
29:B1:269:G:C2	29:B1:294:U:C6	3.01	0.48
29:B1:340:C:C4	31:B3:25:G:C2	3.01	0.48
29:B1:347:G:N2	29:B1:353:G:N9	2.61	0.48
29:B1:529:A:H2'	29:B1:530:G:C8	2.48	0.48
29:B1:545:U:O2'	29:B1:546:C:C6	2.63	0.48
29:B1:568:G:H2'	29:B1:569:A:O4'	2.13	0.48
29:B1:593:C:H2'	29:B1:594:U:C5'	2.43	0.48
29:B1:717:C:H5	29:B1:721:G:OP2	1.96	0.48
29:B1:867:G:C6	29:B1:868:C:C4	3.01	0.48
29:B1:1109:U:C2	29:B1:1110:U:C6	3.02	0.48
29:B1:1131:G:C4	29:B1:2373:A:N1	2.80	0.48
29:B1:1204:A:N6	29:B1:1300:G:H21	2.09	0.48
29:B1:1205:A:C5	29:B1:1206:G:C8	3.01	0.48
29:B1:1389:G:N3	29:B1:1418:A:H2	2.11	0.48
29:B1:1507:G:N3	29:B1:1507:G:O2'	2.43	0.48
29:B1:1633:C:N4	29:B1:1634:G:C6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1644:C:N3	74:B1:3505:OHX:N4	2.61	0.48
29:B1:1656:A:C2	29:B1:1798:A:OP2	2.67	0.48
29:B1:2117:A:H2'	29:B1:2117:A:N3	2.28	0.48
29:B1:2186:U:H2'	29:B1:2187:G:C8	2.48	0.48
29:B1:2222:A:H8	29:B1:2222:A:O5'	1.95	0.48
29:B1:2254:U:O2'	29:B1:2255:A:P	2.71	0.48
29:B1:2386:A:N6	29:B1:2993:G:O2'	2.44	0.48
29:B1:2439:A:N6	29:B1:2440:G:C6	2.82	0.48
29:B1:2581:U:OP2	29:B1:2581:U:C6	2.66	0.48
29:B1:2582:C:OP2	29:B1:2582:C:C6	2.65	0.48
29:B1:2730:G:C2	29:B1:2731:U:C6	3.01	0.48
29:B1:2804:A:O2'	29:B1:2805:G:C5'	2.61	0.48
29:B1:2932:U:N1	29:B1:2935:U:H5	2.12	0.48
29:B1:3082:C:H2'	29:B1:3083:G:O5'	2.13	0.48
29:B1:3326:G:C6	29:B1:3327:G:N7	2.81	0.48
29:B1:3368:U:H3'	29:B1:3369:G:C5'	2.43	0.48
29:B1:3372:A:C6	29:B1:3373:U:C4	3.02	0.48
30:B2:84:A:C6	30:B2:97:A:C6	3.01	0.48
31:B3:72:A:O2'	31:B3:73:U:P	2.71	0.48
31:B3:74:U:C4	31:B3:77:A:OP1	2.66	0.48
34:BC:289:ASP:H	34:BC:290:ASP:CB	2.27	0.48
34:BC:299:ASP:C	34:BC:301:THR:N	2.72	0.48
35:BD:220:ARG:C	35:BD:222:VAL:H	2.21	0.48
38:BG:161:VAL:O	38:BG:165:ASP:CB	2.61	0.48
39:BH:102:ALA:O	39:BH:105:LYS:N	2.46	0.48
39:BH:108:ARG:O	39:BH:110:THR:N	2.46	0.48
39:BH:126:SER:O	39:BH:128:LYS:N	2.38	0.48
45:BP:137:THR:O	45:BP:138:LEU:C	2.55	0.48
48:BS:141:HIS:O	48:BS:145:ALA:HB3	2.13	0.48
49:BT:28:SER:O	49:BT:30:TYR:N	2.46	0.48
52:BW:74:LYS:O	52:BW:75:LYS:C	2.55	0.48
54:BY:5:PHE:O	54:BY:6:THR:C	2.56	0.48
63:Bh:39:UNK:CA	63:Bh:42:UNK:CB	2.91	0.48
67:Bm:11:UNK:O	67:Bm:12:UNK:C	2.61	0.48
1:C1:34:G:C6	1:C1:475:A:C6	3.01	0.48
1:C1:55:A:N1	1:C1:403:G:C4	2.81	0.48
1:C1:105:A:C2	74:C1:1916:OHX:N6	2.81	0.48
1:C1:168:A:C3'	1:C1:169:A:H8	2.27	0.48
1:C1:269:G:C2	1:C1:287:G:C2	3.01	0.48
1:C1:363:G:C6	1:C1:382:C:N4	2.82	0.48
1:C1:395:U:O4	1:C1:396:G:C6	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:417:A:H4'	1:C1:418:G:O5'	2.13	0.48
1:C1:690:G:C2'	1:C1:691:C:C5'	2.91	0.48
1:C1:749:U:N3	1:C1:801:G:C6	2.81	0.48
1:C1:753:A:C6	1:C1:754:A:N6	2.81	0.48
1:C1:933:A:N6	1:C1:935:U:O2	2.46	0.48
1:C1:973:A:O2'	29:D1:847:A:H2	1.96	0.48
1:C1:1001:A:C5	1:C1:1002:G:C5	3.00	0.48
1:C1:1002:G:C4	1:C1:1003:A:C2	3.01	0.48
1:C1:1032:G:C6	1:C1:1104:U:C4	3.01	0.48
1:C1:1112:G:N7	1:C1:1113:A:N7	2.61	0.48
1:C1:1262:U:H2'	1:C1:1263:G:H8	1.78	0.48
1:C1:1283:U:H5"	1:C1:1284:C:O5'	2.13	0.48
1:C1:1308:G:C6	1:C1:1309:C:C4	3.01	0.48
1:C1:1530:C:C2	1:C1:1531:G:C8	3.02	0.48
1:C1:1611:A:H2'	1:C1:1612:U:C5'	2.43	0.48
1:C1:1786:G:C5	1:C1:1787:C:N4	2.81	0.48
5:CD:59:VAL:O	5:CD:60:ASP:CB	2.62	0.48
11:CJ:131:GLY:HA3	11:CJ:138:PHE:N	2.28	0.48
13:CL:96:LYS:CB	13:CL:97:ASP:CA	2.87	0.48
16:CO:14:ILE:O	16:CO:15:ASN:C	2.56	0.48
16:CO:39:GLN:O	16:CO:41:MET:N	2.46	0.48
24:Cc:22:UNK:O	24:Cc:23:UNK:C	2.62	0.48
29:D1:47:C:C4	29:D1:48:A:C5	3.01	0.48
29:D1:73:C:OP2	29:D1:73:C:H3'	2.13	0.48
29:D1:175:C:H2'	29:D1:175:C:O2	2.13	0.48
29:D1:313:A:H2'	29:D1:314:U:H6	1.79	0.48
29:D1:382:U:C4	29:D1:383:G:C8	3.00	0.48
29:D1:420:G:C2	29:D1:2384:A:N3	2.80	0.48
29:D1:501:A:H2	29:D1:612:U:O2	1.96	0.48
29:D1:526:C:C2	29:D1:527:A:C8	3.01	0.48
29:D1:545:U:H2'	29:D1:546:C:C4	2.48	0.48
29:D1:630:A:H5'	29:D1:631:U:OP2	2.13	0.48
29:D1:657:A:O2'	29:D1:658:G:H5'	2.14	0.48
29:D1:695:C:H2'	29:D1:695:C:O2	2.13	0.48
29:D1:809:G:N3	29:D1:810:A:C8	2.81	0.48
29:D1:1035:G:C5	29:D1:1036:A:C8	3.01	0.48
29:D1:1056:U:C6	29:D1:1056:U:C3'	2.97	0.48
29:D1:1172:G:N3	29:D1:1179:A:C2	2.81	0.48
29:D1:1174:G:N3	29:D1:1175:C:C5	2.81	0.48
29:D1:1219:C:H2'	29:D1:1219:C:O2	2.14	0.48
29:D1:1277:C:O2'	29:D1:1278:A:OP2	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1323:G:C3’	29:D1:1324:U:C5’	2.83	0.48
29:D1:1604:G:H2’	29:D1:1605:A:H5”	1.95	0.48
29:D1:1640:G:C4’	29:D1:1641:U:OP2	2.62	0.48
29:D1:1673:G:C6	29:D1:1775:G:C6	3.01	0.48
29:D1:1686:U:H1’	29:D1:1688:U:P	2.53	0.48
29:D1:1907:C:C2’	29:D1:1908:A:H5’	2.41	0.48
29:D1:2157:G:N1	29:D1:2178:A:OP2	2.46	0.48
29:D1:2190:U:C4	29:D1:2191:U:C4	3.01	0.48
29:D1:2280:A:HO2’	29:D1:2281:A:P	2.34	0.48
29:D1:2312:A:H1’	29:D1:2316:G:O4’	2.12	0.48
29:D1:2410:U:H2’	29:D1:2410:U:O2	2.12	0.48
29:D1:2649:A:C6	29:D1:2650:U:C5	3.02	0.48
29:D1:2654:C:H5’	29:D1:2657:A:N6	2.28	0.48
29:D1:2775:U:O2’	29:D1:2776:C:OP2	2.25	0.48
29:D1:2814:G:N2	29:D1:2815:G:C4	2.81	0.48
29:D1:2929:C:C6	29:D1:2929:C:C3’	2.97	0.48
29:D1:2993:G:N3	29:D1:2993:G:C2’	2.74	0.48
29:D1:3184:A:C5	29:D1:3185:U:N3	2.82	0.48
29:D1:3205:G:H22	43:DN:89:ALA:HB1	1.78	0.48
29:D1:3217:C:O2	29:D1:3217:C:C2’	2.62	0.48
29:D1:3298:C:C4	29:D1:3299:A:N7	2.81	0.48
29:D1:3390:G:N1	29:D1:3391:A:C4	2.81	0.48
30:D2:26:C:H2’	30:D2:27:A:H8	1.77	0.48
30:D2:59:U:C2	30:D2:60:G:C8	3.01	0.48
30:D2:63:A:C2	30:D2:65:G:C5	3.01	0.48
31:D3:29:U:N3	31:D3:30:C:H5	2.11	0.48
33:DB:200:ARG:O	33:DB:203:ALA:N	2.47	0.48
34:DC:118:PHE:CB	34:DC:119:TYR:O	2.61	0.48
38:DG:160:ARG:O	38:DG:161:VAL:C	2.55	0.48
41:DJ:148:VAL:O	41:DJ:149:VAL:C	2.54	0.48
42:DK:61:ARG:O	42:DK:63:GLU:N	2.46	0.48
42:DK:101:ASN:O	42:DK:102:PHE:C	2.55	0.48
42:DK:147:THR:C	42:DK:148:VAL:O	2.57	0.48
45:DP:23:VAL:O	45:DP:27:LEU:N	2.37	0.48
56:Da:16:LEU:O	56:Da:18:LYS:N	2.46	0.48
1:A1:174:U:O2	1:A1:175:G:H1’	2.14	0.48
1:A1:199:G:C5	1:A1:200:A:N7	2.81	0.48
1:A1:310:C:H6	1:A1:310:C:C5’	2.26	0.48
1:A1:544:A:C8	1:A1:544:A:P	3.07	0.48
1:A1:968:U:H5”	1:A1:1033:C:O2’	2.14	0.48
1:A1:991:G:O6	74:A1:1958:OHX:N2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1101:G:H8	1:A1:1101:G:P	2.37	0.48
1:A1:1160:A:H2'	1:A1:1161:C:C5	2.47	0.48
1:A1:1192:C:C4	1:A1:1193:A:C5	3.02	0.48
1:A1:1348:A:C8	1:A1:1349:G:H5'	2.49	0.48
1:A1:1504:G:H2'	1:A1:1505:A:O4'	2.12	0.48
1:A1:1600:A:H2'	1:A1:1602:C:H41	1.78	0.48
1:A1:1684:U:H3'	1:A1:1685:G:H5'	1.95	0.48
1:A1:1777:G:C6	1:A1:1778:G:C5	3.02	0.48
1:A1:1784:C:C2	1:A1:1785:U:C5	3.01	0.48
2:AA:2:SER:C	2:AA:4:PRO:N	2.70	0.48
5:AD:63:GLN:CB	5:AD:92:ARG:HA	2.43	0.48
6:AE:49:LEU:O	6:AE:50:SER:C	2.55	0.48
12:AK:23:LYS:CB	12:AK:64:GLY:O	2.62	0.48
17:AP:79:ASN:C	17:AP:81:LYS:N	2.72	0.48
17:AP:131:SER:CB	17:AP:133:LEU:HA	2.44	0.48
29:B1:5:G:O6	31:B3:154:C:N3	2.46	0.48
29:B1:26:A:H2	29:B1:330:G:N2	2.11	0.48
29:B1:30:G:C5	29:B1:55:G:O6	2.66	0.48
29:B1:149:U:O2'	29:B1:150:A:OP1	2.29	0.48
29:B1:159:A:C4	29:B1:160:G:N7	2.81	0.48
29:B1:199:A:C2	29:B1:201:A:C8	3.00	0.48
29:B1:245:U:C4	74:B1:3489:OHX:N4	2.81	0.48
29:B1:279:U:C2	29:B1:286:U:N3	2.81	0.48
29:B1:310:U:H5'	29:B1:311:C:OP2	2.14	0.48
29:B1:313:A:H2'	29:B1:314:U:H6	1.76	0.48
29:B1:318:A:OP2	29:B1:318:A:C8	2.64	0.48
29:B1:337:G:H1	31:B3:26:U:H3	1.61	0.48
29:B1:340:C:C5'	29:B1:340:C:H6	2.26	0.48
29:B1:366:A:N6	29:B1:367:A:N3	2.62	0.48
29:B1:591:G:C2'	29:B1:592:A:C5'	2.70	0.48
29:B1:644:G:H5"	29:B1:645:A:OP2	2.14	0.48
29:B1:967:A:H3'	29:B1:968:G:H8	1.78	0.48
29:B1:980:A:C2'	29:B1:981:U:O4'	2.61	0.48
29:B1:1119:C:C2	29:B1:1120:A:N7	2.80	0.48
29:B1:1302:A:N3	29:B1:2887:A:C4	2.82	0.48
29:B1:1566:A:H2'	29:B1:1567:U:C5	2.48	0.48
29:B1:1583:A:C2'	29:B1:1584:U:O5'	2.61	0.48
29:B1:1661:G:C6	29:B1:1662:G:C6	3.02	0.48
29:B1:1675:G:C2	29:B1:1773:C:C4	3.02	0.48
29:B1:1686:U:H1'	29:B1:1688:U:P	2.54	0.48
29:B1:1742:U:H2'	29:B1:1743:G:C8	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1890:U:C4	29:B1:1891:A:N7	2.82	0.48
29:B1:1899:G:N3	29:B1:2334:U:C5	2.81	0.48
29:B1:1946:A:H2'	29:B1:1947:G:C8	2.49	0.48
29:B1:2264:U:O2'	29:B1:2265:C:H5'	2.13	0.48
29:B1:2279:A:C8	29:B1:2288:G:C5	3.01	0.48
29:B1:2360:C:C6	29:B1:2360:C:OP2	2.67	0.48
29:B1:2390:A:C4	29:B1:2990:G:N2	2.82	0.48
29:B1:2672:G:C8	29:B1:2672:G:H3'	2.47	0.48
29:B1:2702:A:O4'	29:B1:2704:A:C5	2.67	0.48
29:B1:2929:C:C6	29:B1:2929:C:C3'	2.97	0.48
29:B1:3036:G:C2'	29:B1:3037:U:O5'	2.61	0.48
29:B1:3069:G:N1	29:B1:3070:A:C5	2.82	0.48
29:B1:3075:G:O2'	29:B1:3076:C:H5'	2.13	0.48
29:B1:3222:U:H2'	29:B1:3223:A:O4'	2.14	0.48
29:B1:3315:G:H4'	29:B1:3319:U:H4'	1.96	0.48
29:B1:3352:U:H2'	29:B1:3352:U:O2	2.11	0.48
30:B2:11:A:C2	36:BE:16:PHE:CA	2.67	0.48
31:B3:25:G:N1	31:B3:26:U:C2	2.82	0.48
35:BD:149:PRO:O	35:BD:150:LEU:CB	2.61	0.48
36:BE:109:THR:C	36:BE:252:ALA:HB2	2.37	0.48
38:BG:39:GLU:O	38:BG:40:LYS:C	2.55	0.48
38:BG:222:HIS:CB	38:BG:228:SER:N	2.76	0.48
40:BI:185:GLY:O	40:BI:187:ILE:N	2.46	0.48
42:BK:120:ILE:O	42:BK:121:GLY:C	2.56	0.48
44:BO:111:ALA:C	44:BO:113:LEU:N	2.70	0.48
44:BO:143:ARG:O	44:BO:146:ALA:HB2	2.12	0.48
45:BP:11:GLY:O	45:BP:13:GLY:O	2.29	0.48
48:BS:39:ASN:O	48:BS:40:ALA:C	2.56	0.48
48:BS:145:ALA:O	48:BS:146:LYS:C	2.56	0.48
49:BT:110:LYS:O	49:BT:111:ALA:C	2.57	0.48
57:Bb:42:VAL:C	57:Bb:44:ARG:H	2.19	0.48
1:C1:27:U:O2	1:C1:28:A:C8	2.66	0.48
1:C1:71:A:H1'	1:C1:72:A:OP1	2.13	0.48
1:C1:93:A:OP2	1:C1:403:G:OP1	2.31	0.48
1:C1:117:U:H2'	1:C1:118:U:O4'	2.14	0.48
1:C1:539:G:N3	1:C1:543:C:C4	2.81	0.48
1:C1:599:A:H5"	1:C1:600:U:OP2	2.13	0.48
1:C1:717:C:H1'	1:C1:718:U:OP1	2.13	0.48
1:C1:825:U:C5	1:C1:826:U:C2	3.02	0.48
1:C1:1032:G:C6	1:C1:1104:U:O4	2.66	0.48
1:C1:1140:G:N3	1:C1:1141:G:C8	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1151:A:OP1	1:C1:1766:A:H2	1.96	0.48
1:C1:1274:C:O2'	1:C1:1275:A:P	2.70	0.48
1:C1:1297:G:N2	1:C1:1300:A:OP2	2.46	0.48
1:C1:1364:G:C5	1:C1:1365:C:C6	3.02	0.48
1:C1:1437:U:H2'	1:C1:1438:G:H5'	1.95	0.48
1:C1:1587:A:H2'	1:C1:1587:A:N3	2.27	0.48
1:C1:1607:G:C4	1:C1:1608:U:C5	3.01	0.48
1:C1:1664:C:O2	1:C1:1665:U:H1'	2.13	0.48
1:C1:1783:C:N4	1:C1:1784:C:N4	2.61	0.48
3:CB:161:LYS:CB	3:CB:209:ASN:HA	2.43	0.48
3:CB:185:LYS:O	3:CB:187:LEU:N	2.46	0.48
21:CT:27:ALA:HB2	21:CT:296:ALA:HB1	1.95	0.48
24:Cc:35:UNK:O	24:Cc:36:UNK:C	2.60	0.48
29:D1:232:G:C4	29:D1:233:C:C6	3.01	0.48
29:D1:342:A:C2	29:D1:349:A:H8	2.29	0.48
29:D1:416:A:C2	29:D1:417:A:C4	3.02	0.48
29:D1:568:G:H2'	29:D1:569:A:O4'	2.13	0.48
29:D1:569:A:C6	29:D1:570:A:C5	3.01	0.48
29:D1:618:C:N3	29:D1:619:A:N7	2.62	0.48
29:D1:637:C:N3	29:D1:638:C:N4	2.61	0.48
29:D1:681:U:C1'	29:D1:682:U:H5'	2.38	0.48
29:D1:787:G:H2'	29:D1:788:C:C6	2.48	0.48
29:D1:883:A:C6	29:D1:921:A:C5	3.02	0.48
29:D1:980:A:C2'	29:D1:981:U:O4'	2.62	0.48
29:D1:1004:U:N3	29:D1:1005:G:C5	2.81	0.48
29:D1:1210:U:O2'	29:D1:1211:U:H5'	2.14	0.48
29:D1:1313:G:C2	29:D1:1314:C:C6	3.02	0.48
29:D1:1357:G:C2'	29:D1:1358:C:H6	2.27	0.48
29:D1:1367:G:O2'	29:D1:1368:U:P	2.71	0.48
29:D1:1480:G:O2'	29:D1:1871:U:O4	2.22	0.48
29:D1:1506:A:H1'	29:D1:1848:G:O6	2.13	0.48
29:D1:1587:A:C2	29:D1:1590:G:N9	2.82	0.48
29:D1:1615:C:C2	29:D1:1616:U:C5	3.02	0.48
29:D1:1643:A:C5'	29:D1:1822:C:H5"	2.43	0.48
29:D1:1907:C:H3'	29:D1:1907:C:C6	2.46	0.48
29:D1:2114:C:C4'	29:D1:2116:G:C4	2.95	0.48
29:D1:2328:U:C2	29:D1:2329:C:C6	3.01	0.48
29:D1:2348:A:OP2	29:D1:2349:U:H5	1.96	0.48
29:D1:2416:U:O4	74:D1:3608:OHX:N5	2.46	0.48
29:D1:2702:A:C4'	29:D1:2704:A:C8	2.97	0.48
29:D1:2733:A:H2'	29:D1:2734:A:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2809:C:O2'	29:D1:2810:C:OP1	2.27	0.48
29:D1:2881:C:O2	29:D1:2882:U:C5	2.66	0.48
29:D1:2922:G:O4'	29:D1:2951:G:O2'	2.27	0.48
29:D1:3010:U:O4'	34:DC:15:GLY:CA	2.60	0.48
29:D1:3010:U:C2'	29:D1:3011:A:H5'	2.43	0.48
29:D1:3055:U:C2	29:D1:3085:G:C2	3.01	0.48
29:D1:3073:A:C2'	29:D1:3074:G:O5'	2.61	0.48
29:D1:3123:A:C8	29:D1:3124:G:C8	3.02	0.48
29:D1:3152:U:H5'	29:D1:3294:A:H4'	1.96	0.48
29:D1:3217:C:C5'	29:D1:3276:G:H22	2.24	0.48
29:D1:3237:U:H2'	29:D1:3238:G:N7	2.29	0.48
29:D1:3262:U:H3'	29:D1:3262:U:P	2.52	0.48
29:D1:3390:G:C5	29:D1:3391:A:N7	2.81	0.48
30:D2:60:G:C2	30:D2:61:G:C8	3.01	0.48
30:D2:73:C:C4	30:D2:74:C:C5	3.01	0.48
31:D3:24:G:H2'	31:D3:25:G:O4'	2.13	0.48
31:D3:56:G:C2	31:D3:57:C:N1	2.81	0.48
33:DB:231:SER:H	33:DB:233:GLN:H	1.60	0.48
33:DB:231:SER:C	33:DB:233:GLN:H	2.21	0.48
34:DC:189:SER:C	34:DC:191:LYS:N	2.65	0.48
37:DF:86:ALA:CB	37:DF:87:THR:HA	2.26	0.48
73:DM:46:ARG:CA	73:DM:49:ALA:HB2	2.39	0.48
46:DQ:52:LEU:N	46:DQ:54:HIS:H	2.11	0.48
48:DS:70:LYS:C	48:DS:72:GLU:N	2.71	0.48
48:DS:127:SER:C	48:DS:129:GLY:N	2.71	0.48
50:DU:133:SER:C	50:DU:135:VAL:H	2.13	0.48
52:DW:80:ASN:HA	52:DW:132:ALA:HB2	1.95	0.48
60:De:33:ASN:O	60:De:34:THR:CB	2.61	0.48
1:A1:70:C:H3'	1:A1:71:A:C8	2.48	0.48
1:A1:106:U:N3	1:A1:107:C:C2	2.81	0.48
1:A1:110:U:H4'	1:A1:797:G:N2	2.23	0.48
1:A1:133:U:O2	1:A1:133:U:H2'	2.14	0.48
1:A1:283:U:O3'	1:A1:284:G:C4'	2.60	0.48
1:A1:326:G:H2'	1:A1:327:U:H6	1.78	0.48
1:A1:329:G:C2	1:A1:330:G:C8	3.01	0.48
1:A1:380:U:O2'	1:A1:381:C:O5'	2.30	0.48
1:A1:486:G:O6	1:A1:487:G:C5	2.66	0.48
1:A1:640:U:C5	1:A1:641:G:C6	3.02	0.48
1:A1:697:C:C2'	1:A1:698:U:H5"	2.44	0.48
1:A1:713:A:C6	1:A1:726:C:O2	2.66	0.48
1:A1:747:C:H2'	1:A1:748:U:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:778:G:C2	1:A1:783:G:C6	3.01	0.48
1:A1:824:G:C5'	1:A1:825:U:OP1	2.61	0.48
1:A1:869:A:C5	1:A1:870:C:C5	3.01	0.48
1:A1:906:A:OP2	9:AH:50:ALA:O	2.31	0.48
1:A1:1025:A:N7	1:A1:1027:A:C4	2.81	0.48
1:A1:1073:G:N1	1:A1:1074:G:C2	2.82	0.48
1:A1:1116:A:C6	1:A1:1117:U:N3	2.81	0.48
1:A1:1196:A:C4'	1:A1:1197:C:O5'	2.62	0.48
1:A1:1338:C:H2'	1:A1:1339:C:O4'	2.13	0.48
1:A1:1478:G:C4	1:A1:1479:A:C8	3.01	0.48
1:A1:1483:A:O2'	11:AJ:72:GLY:HA2	2.14	0.48
1:A1:1550:A:H2'	1:A1:1551:U:C6	2.48	0.48
1:A1:1566:U:H2'	1:A1:1567:U:H5'	1.96	0.48
2:AA:42:PRO:O	2:AA:44:GLY:N	2.46	0.48
9:AH:20:TYR:HA	9:AH:85:ALA:H	1.78	0.48
11:AJ:86:ALA:C	11:AJ:88:GLY:H	2.19	0.48
15:AN:61:LYS:CB	15:AN:86:ILE:O	2.62	0.48
23:Ab:64:UNK:HA	23:Ab:67:UNK:C	2.44	0.48
26:Ae:7:UNK:O	26:Ae:8:UNK:C	2.59	0.48
29:B1:11:A:HO2'	29:B1:12:A:H5'	1.78	0.48
29:B1:157:A:C2'	29:B1:158:G:N7	2.76	0.48
29:B1:203:G:H2'	29:B1:204:A:O4'	2.13	0.48
29:B1:259:C:H2'	29:B1:260:C:H6	1.79	0.48
29:B1:331:G:N1	31:B3:33:A:C2	2.82	0.48
29:B1:365:A:N1	29:B1:366:A:C4	2.82	0.48
29:B1:624:G:N3	29:B1:625:G:C8	2.81	0.48
29:B1:643:U:C6	29:B1:643:U:C3'	2.97	0.48
29:B1:807:A:H3'	29:B1:808:A:C5'	2.39	0.48
29:B1:957:C:N3	29:B1:958:C:C5	2.82	0.48
29:B1:992:A:H3'	29:B1:993:G:H5"	1.96	0.48
29:B1:1306:G:C6	45:BP:63:ALA:CA	2.97	0.48
29:B1:1459:C:H2'	29:B1:1460:A:H5'	1.95	0.48
29:B1:1556:C:N4	29:B1:2169:G:C8	2.75	0.48
29:B1:1685:C:O2'	29:B1:1687:U:OP2	2.29	0.48
29:B1:1686:U:H1'	29:B1:1688:U:OP1	2.13	0.48
29:B1:1835:A:C5	29:B1:1836:C:C4	3.02	0.48
29:B1:2128:C:C5	29:B1:2129:U:C5	3.01	0.48
29:B1:2192:C:HO2'	29:B1:2312:A:H2	1.52	0.48
29:B1:2248:C:C4'	29:B1:2271:A:C2	2.96	0.48
29:B1:2385:G:C6	29:B1:3142:A:C2	3.02	0.48
29:B1:2393:G:O2'	29:B1:2394:G:OP2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2423:U:O2'	29:B1:2424:A:O4'	2.24	0.48
29:B1:2468:A:H2	29:B1:2469:G:N3	2.12	0.48
29:B1:2587:U:C2	29:B1:2588:U:C6	3.01	0.48
29:B1:2761:G:N1	29:B1:2795:U:H3'	2.24	0.48
29:B1:2782:U:H6	29:B1:2782:U:H5"	1.79	0.48
29:B1:2792:A:O5'	29:B1:2792:A:C8	2.59	0.48
29:B1:2826:U:N3	29:B1:2827:U:C5	2.81	0.48
29:B1:3091:A:O2'	29:B1:3092:C:OP2	2.31	0.48
29:B1:3223:A:N3	29:B1:3223:A:H2'	2.28	0.48
29:B1:3273:A:C2	29:B1:3274:A:C5	3.01	0.48
29:B1:3341:U:H3'	29:B1:3343:G:H1	1.77	0.48
29:B1:3352:U:C2'	29:B1:3352:U:O2	2.61	0.48
30:B2:12:U:C2	30:B2:70:U:P	3.06	0.48
30:B2:37:G:N2	30:B2:38:U:O4	2.46	0.48
30:B2:75:G:OP2	30:B2:76:A:H3'	2.14	0.48
31:B3:56:G:C2	31:B3:57:C:C2	3.01	0.48
31:B3:74:U:P	31:B3:76:C:C4	3.06	0.48
34:BC:40:PRO:O	34:BC:42:ALA:N	2.46	0.48
37:BF:117:LYS:O	37:BF:118:GLU:O	2.31	0.48
38:BG:98:LYS:O	38:BG:99:PRO:C	2.55	0.48
39:BH:126:SER:O	39:BH:130:TYR:N	2.45	0.48
41:BJ:164:LYS:O	41:BJ:165:ILE:C	2.57	0.48
43:BN:104:ALA:H	43:BN:106:ARG:H	1.61	0.48
44:BO:49:ARG:CA	44:BO:53:TYR:CB	2.91	0.48
44:BO:175:ASN:O	44:BO:176:LYS:CB	2.61	0.48
45:BP:176:LYS:O	45:BP:177:LYS:C	2.57	0.48
58:Bc:62:GLN:C	58:Bc:65:ALA:HB3	2.39	0.48
62:Bg:12:GLY:O	62:Bg:15:GLY:HA2	2.14	0.48
62:Bg:30:GLU:O	62:Bg:33:GLN:N	2.38	0.48
63:Bh:12:UNK:O	63:Bh:13:UNK:C	2.57	0.48
22:Bo:12:UNK:C	22:Bo:14:UNK:N	2.76	0.48
1:C1:130:C:C4	1:C1:131:C:O2'	2.58	0.48
1:C1:156:A:H8	1:C1:156:A:O5'	1.96	0.48
1:C1:257:A:C2'	1:C1:258:C:C5'	2.89	0.48
1:C1:389:G:C5	1:C1:390:G:C6	3.00	0.48
1:C1:407:A:C6	1:C1:408:C:N4	2.82	0.48
1:C1:565:C:C2	1:C1:576:G:C6	3.01	0.48
1:C1:639:U:OP2	23:Cb:72:UNK:HA	2.14	0.48
1:C1:773:C:O2	1:C1:774:A:C8	2.66	0.48
1:C1:988:A:C2	1:C1:989:U:C1'	2.96	0.48
1:C1:1032:G:C2	1:C1:1033:C:C2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1198:G:OP1	1:C1:1200:G:N2	2.47	0.48
1:C1:1199:G:C6	1:C1:1200:G:C1'	2.96	0.48
1:C1:1239:U:H5	1:C1:1241:G:C6	2.31	0.48
1:C1:1363:U:H3'	1:C1:1364:G:H8	1.77	0.48
1:C1:1395:G:H2'	1:C1:1396:U:C5'	2.44	0.48
1:C1:1426:C:C2	1:C1:1428:G:C8	3.01	0.48
1:C1:1481:C:H6	1:C1:1482:C:N1	2.11	0.48
1:C1:1584:G:N1	11:CJ:125:GLU:N	2.61	0.48
1:C1:1590:G:C2	1:C1:1591:C:C4	3.02	0.48
1:C1:1727:G:C2	1:C1:1728:A:C5	3.02	0.48
1:C1:1758:U:C2	1:C1:1759:C:C5	3.01	0.48
1:C1:1793:G:C4	1:C1:1794:A:C8	3.02	0.48
7:CF:132:SER:O	7:CF:134:THR:N	2.47	0.48
9:CH:30:VAL:H	9:CH:40:ALA:HB3	1.77	0.48
10:CI:78:THR:O	10:CI:79:HIS:C	2.57	0.48
29:D1:13:A:H2	29:D1:15:C:C2'	2.26	0.48
29:D1:88:A:N3	29:D1:89:A:H1'	2.28	0.48
29:D1:90:C:H1'	29:D1:281:G:H4'	1.95	0.48
29:D1:109:A:C2	29:D1:323:A:C5	3.01	0.48
29:D1:122:A:C4'	29:D1:150:A:HO2'	2.26	0.48
29:D1:159:A:C2'	29:D1:160:G:C8	2.95	0.48
29:D1:264:G:N7	29:D1:265:A:N6	2.60	0.48
29:D1:518:G:P	29:D1:520:U:C5	3.07	0.48
29:D1:655:C:H2'	29:D1:656:A:C8	2.48	0.48
29:D1:666:A:C5	29:D1:667:C:C5	3.01	0.48
29:D1:762:U:O2	29:D1:770:G:N2	2.46	0.48
29:D1:771:A:C3'	29:D1:772:U:C5'	2.92	0.48
29:D1:992:A:H3'	29:D1:993:G:H5"	1.95	0.48
29:D1:1013:G:H4'	29:D1:1014:U:OP1	2.13	0.48
29:D1:1054:A:H5"	29:D1:2637:A:N6	2.28	0.48
29:D1:1110:U:C2	29:D1:1111:U:C5	3.02	0.48
29:D1:1131:G:N3	29:D1:2373:A:N1	2.60	0.48
29:D1:1224:C:N4	29:D1:1285:G:N1	2.62	0.48
29:D1:1254:C:C4	29:D1:1255:C:C5	3.02	0.48
29:D1:1358:C:C2	29:D1:1359:C:C6	3.01	0.48
29:D1:1407:A:H5'	29:D1:1408:G:OP2	2.14	0.48
29:D1:1896:A:C4	29:D1:3093:C:C5	3.01	0.48
29:D1:1953:G:C6	29:D1:2093:A:C8	3.01	0.48
29:D1:2143:A:C8	29:D1:2143:A:C3'	2.96	0.48
29:D1:2300:G:C2	29:D1:2301:U:N1	2.81	0.48
29:D1:2346:C:O2'	29:D1:2347:U:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2380:U:N3	29:D1:2381:G:N7	2.62	0.48
29:D1:2394:G:C2'	29:D1:2395:G:H5'	2.42	0.48
29:D1:2413:A:C2	29:D1:2414:G:C5	3.01	0.48
29:D1:2522:G:O2'	29:D1:2522:G:N3	2.46	0.48
29:D1:2577:C:O2'	29:D1:2578:U:H5'	2.13	0.48
29:D1:2612:U:H2'	29:D1:2612:U:O2	2.14	0.48
29:D1:2631:U:N3	29:D1:2648:G:C2	2.82	0.48
29:D1:2675:C:C5	29:D1:2676:A:C6	2.98	0.48
29:D1:2678:A:O4'	29:D1:2679:A:C2	2.64	0.48
29:D1:2714:G:N9	29:D1:2716:U:C5	2.82	0.48
29:D1:2833:A:C2	29:D1:2834:G:O4'	2.67	0.48
29:D1:2879:C:C5	29:D1:2880:U:C5	3.02	0.48
29:D1:2887:A:N3	29:D1:2887:A:H5'	2.28	0.48
29:D1:2987:A:C6	29:D1:2988:C:C4	3.01	0.48
29:D1:3000:A:C2'	29:D1:3001:C:H6	2.23	0.48
29:D1:3209:A:C5	29:D1:3210:A:N6	2.81	0.48
29:D1:3213:A:H3'	29:D1:3213:A:H8	1.78	0.48
29:D1:3237:U:OP2	29:D1:3237:U:H6	1.96	0.48
29:D1:3283:U:C2'	29:D1:3284:G:O4'	2.56	0.48
29:D1:3294:A:N6	29:D1:3295:A:C6	2.81	0.48
29:D1:3302:U:O2'	29:D1:3303:G:C4'	2.61	0.48
29:D1:3313:U:O2'	29:D1:3314:A:P	2.72	0.48
30:D2:3:U:C2	30:D2:4:U:C6	3.01	0.48
35:DD:18:ASN:O	35:DD:19:ALA:HB2	2.13	0.48
35:DD:23:PRO:O	35:DD:24:ALA:HB2	2.13	0.48
35:DD:117:GLU:C	35:DD:119:ARG:H	2.20	0.48
42:DK:34:SER:O	42:DK:37:LEU:N	2.47	0.48
42:DK:82:ARG:HA	42:DK:85:LYS:CB	2.43	0.48
44:DO:49:ARG:CA	44:DO:53:TYR:CB	2.91	0.48
45:DP:196:ALA:C	45:DP:198:GLY:H	2.22	0.48
47:DR:149:ALA:HB3	47:DR:150:VAL:CA	2.43	0.48
48:DS:135:LYS:C	48:DS:137:ALA:N	2.69	0.48
48:DS:141:HIS:O	48:DS:145:ALA:HB3	2.13	0.48
50:DU:17:LEU:O	50:DU:52:ALA:N	2.47	0.48
57:Db:20:HIS:O	57:Db:21:HIS:C	2.54	0.48
57:Db:114:ALA:C	57:Db:116:GLY:H	2.21	0.48
1:A1:5:U:C2	1:A1:20:G:N2	2.81	0.48
1:A1:57:G:C5	1:A1:91:G:C2	3.01	0.48
1:A1:89:G:C6	1:A1:90:C:C4	3.01	0.48
1:A1:158:U:HO2'	1:A1:159:U:P	2.36	0.48
1:A1:218:A:O2'	1:A1:219:A:H8	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:221:A:C6	1:A1:833:U:O4	2.66	0.48
1:A1:452:A:H2	1:A1:454:U:O5'	1.94	0.48
1:A1:454:U:O4	1:A1:456:A:C4	2.67	0.48
1:A1:544:A:OP2	1:A1:544:A:C8	2.67	0.48
1:A1:600:U:P	17:AP:108:GLY:H	2.37	0.48
1:A1:741:C:O2'	1:A1:742:U:H6	1.96	0.48
1:A1:743:U:HO2'	1:A1:744:U:C5'	2.26	0.48
1:A1:807:A:C8	1:A1:807:A:C5'	2.97	0.48
1:A1:1032:G:C2'	1:A1:1033:C:O5'	2.62	0.48
1:A1:1120:U:C2	1:A1:1121:C:C6	3.02	0.48
1:A1:1206:U:C6	1:A1:1207:C:C6	3.01	0.48
1:A1:1219:A:C4'	1:A1:1220:C:C5	2.97	0.48
1:A1:1334:U:C4	1:A1:1335:U:C5	3.01	0.48
1:A1:1466:G:C5	1:A1:1467:C:N4	2.82	0.48
1:A1:1535:U:O2'	1:A1:1536:G:N2	2.47	0.48
1:A1:1696:G:N2	1:A1:1708:U:H1'	2.29	0.48
1:A1:1790:A:O2'	1:A1:1792:G:N2	2.46	0.48
4:AC:93:ASP:O	4:AC:94:ARG:C	2.56	0.48
5:AD:66:GLN:N	5:AD:87:CYS:N	2.61	0.48
6:AE:42:ILE:C	6:AE:45:ILE:H	2.22	0.48
11:AJ:28:LEU:H	14:AM:1:MET:CB	2.26	0.48
13:AL:17:LEU:O	13:AL:21:ASN:O	2.31	0.48
16:AO:114:GLU:HA	16:AO:117:ARG:CB	2.43	0.48
19:AR:26:THR:HA	19:AR:38:ARG:HA	1.96	0.48
21:AT:2:ALA:C	21:AT:4:ASN:H	2.21	0.48
21:AT:94:VAL:O	21:AT:95:ALA:HB2	2.12	0.48
25:Ad:102:UNK:C	25:Ad:104:UNK:N	2.74	0.48
29:B1:30:G:C5	29:B1:55:G:C6	3.02	0.48
29:B1:175:C:H2'	29:B1:175:C:O2	2.12	0.48
29:B1:197:G:C5	29:B1:198:A:N7	2.81	0.48
29:B1:209:A:OP1	29:B1:210:U:OP1	2.32	0.48
29:B1:221:A:N9	29:B1:224:C:N4	2.62	0.48
29:B1:265:A:H4'	29:B1:266:A:OP1	2.14	0.48
29:B1:283:G:C4	29:B1:285:A:N7	2.82	0.48
29:B1:361:A:H2'	29:B1:362:U:O4'	2.13	0.48
29:B1:538:G:N3	29:B1:556:U:H5	2.11	0.48
29:B1:560:G:HO2'	29:B1:561:C:H5'	1.72	0.48
29:B1:641:C:H6	29:B1:641:C:H3'	1.79	0.48
29:B1:692:A:C2'	29:B1:693:A:H8	2.27	0.48
29:B1:860:G:C2	29:B1:2133:U:C2	3.02	0.48
29:B1:1005:G:H2'	29:B1:1006:A:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1080:A:H8	29:B1:1080:A:OP2	1.96	0.48
29:B1:1129:A:C5	29:B1:1130:A:C6	2.99	0.48
29:B1:1167:U:O2'	29:B1:1168:U:O5'	2.31	0.48
29:B1:1268:G:H1	29:B1:1272:C:N4	2.11	0.48
29:B1:1270:A:C8	29:B1:1271:A:C8	3.02	0.48
29:B1:1293:U:H2'	29:B1:1294:A:O5'	2.13	0.48
29:B1:1499:C:C2	29:B1:1500:G:C8	3.01	0.48
29:B1:1506:A:H1'	29:B1:1848:G:O6	2.12	0.48
29:B1:1508:C:HO2'	29:B1:2353:G:H1'	1.77	0.48
29:B1:1640:G:P	29:B1:1738:C:H5"	2.54	0.48
29:B1:1651:U:C2'	29:B1:1652:G:H5'	2.44	0.48
29:B1:1655:G:H5"	29:B1:1656:A:H2'	1.96	0.48
29:B1:1761:C:O2'	29:B1:1762:C:H5"	2.13	0.48
29:B1:1787:A:C3'	29:B1:1788:C:H5"	2.44	0.48
29:B1:2299:A:C4	29:B1:2300:G:H8	2.30	0.48
29:B1:2342:U:O2'	29:B1:2343:C:H5'	2.13	0.48
29:B1:2773:C:C2	29:B1:2774:C:C5	3.02	0.48
29:B1:2785:A:C6	29:B1:2786:G:C5	3.02	0.48
29:B1:2809:C:C2'	29:B1:2810:C:OP1	2.61	0.48
29:B1:3072:C:C5	29:B1:3073:A:C8	3.00	0.48
29:B1:3097:C:O2'	29:B1:3098:G:OP1	2.30	0.48
29:B1:3330:A:C2'	29:B1:3331:U:O5'	2.61	0.48
30:B2:48:U:H2'	30:B2:49:G:OP2	2.14	0.48
30:B2:63:A:N1	30:B2:65:G:O6	2.46	0.48
35:BD:99:MET:O	35:BD:100:PHE:O	2.31	0.48
35:BD:215:ILE:O	35:BD:217:LYS:N	2.46	0.48
36:BE:154:THR:O	36:BE:155:THR:C	2.56	0.48
41:BJ:184:LYS:O	41:BJ:186:GLU:N	2.47	0.48
42:BK:109:HIS:O	42:BK:110:ILE:CB	2.61	0.48
43:BN:50:LYS:N	43:BN:53:VAL:CB	2.73	0.48
45:BP:97:ALA:O	45:BP:98:ALA:C	2.56	0.48
45:BP:124:LEU:HA	45:BP:126:VAL:CA	2.38	0.48
48:BS:158:GLU:O	48:BS:161:ALA:HB3	2.13	0.48
61:Bf:76:LYS:C	61:Bf:78:LYS:H	2.20	0.48
62:Bg:52:ALA:O	62:Bg:53:GLY:C	2.55	0.48
26:Bj:10:UNK:C	26:Bj:12:UNK:N	2.74	0.48
1:C1:89:G:C5	1:C1:90:C:C5	3.02	0.48
1:C1:133:U:H4'	1:C1:134:U:OP2	2.13	0.48
1:C1:158:U:O2'	1:C1:159:U:P	2.71	0.48
1:C1:262:U:C5	1:C1:263:C:N4	2.82	0.48
1:C1:263:C:O3'	1:C1:264:G:O4'	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:266:A:H3'	1:C1:267:U:O4'	2.13	0.48
1:C1:340:U:N3	1:C1:341:A:N7	2.62	0.48
1:C1:350:U:OP1	1:C1:351:C:O2'	2.19	0.48
1:C1:518:A:C6	1:C1:535:A:N3	2.81	0.48
1:C1:579:A:C2	4:CC:144:ALA:HB2	2.47	0.48
1:C1:873:U:N3	1:C1:874:C:N4	2.61	0.48
1:C1:1092:A:C2	1:C1:1094:G:C5	3.01	0.48
1:C1:1096:C:O2	1:C1:1096:C:C2'	2.61	0.48
1:C1:1099:U:O2'	1:C1:1100:G:C1'	2.61	0.48
1:C1:1169:G:N2	1:C1:1577:A:C5	2.82	0.48
1:C1:1186:U:O2'	1:C1:1187:U:H5'	2.14	0.48
1:C1:1332:C:O2	1:C1:1333:C:C6	2.67	0.48
1:C1:1424:A:H2'	1:C1:1425:A:O4'	2.14	0.48
1:C1:1486:G:H1'	1:C1:1592:A:O2'	2.13	0.48
1:C1:1493:A:N3	1:C1:1493:A:C2'	2.76	0.48
1:C1:1575:G:N2	1:C1:1576:A:C1'	2.76	0.48
1:C1:1578:U:C2'	1:C1:1579:U:H5'	2.43	0.48
1:C1:1654:G:N2	1:C1:1745:G:C4	2.81	0.48
1:C1:1660:A:C5	1:C1:1661:U:C5	3.01	0.48
3:CB:181:SER:O	3:CB:182:PRO:C	2.56	0.48
4:CC:97:SER:O	4:CC:99:VAL:N	2.47	0.48
6:CE:38:ASN:O	6:CE:39:LYS:O	2.31	0.48
9:CH:98:GLY:O	9:CH:101:ALA:HB3	2.14	0.48
11:CJ:96:TYR:O	11:CJ:97:VAL:CB	2.61	0.48
17:CP:27:ASN:O	17:CP:28:ASN:CB	2.61	0.48
20:CS:37:ASN:C	74:CS:101:OHX:N5	2.71	0.48
21:CT:2:ALA:C	21:CT:4:ASN:H	2.22	0.48
29:D1:66:A:N6	29:D1:68:C:O2	2.47	0.48
29:D1:173:G:H2'	29:D1:174:C:N1	2.29	0.48
29:D1:311:C:N4	29:D1:312:C:C4	2.81	0.48
29:D1:366:A:O5'	29:D1:366:A:H8	1.96	0.48
29:D1:370:U:O2	29:D1:403:C:C4	2.64	0.48
29:D1:564:G:C5	29:D1:565:U:C4	3.02	0.48
29:D1:572:A:N6	29:D1:573:C:C4	2.81	0.48
29:D1:746:A:C2'	29:D1:747:A:OP1	2.62	0.48
29:D1:812:G:N3	29:D1:813:G:C8	2.81	0.48
29:D1:992:A:C2	29:D1:993:G:C8	3.01	0.48
29:D1:1041:U:H2'	29:D1:1041:U:O2	2.13	0.48
29:D1:1113:G:H4'	54:DY:17:ALA:HB1	1.95	0.48
29:D1:1188:U:H3	29:D1:1317:A:N6	2.11	0.48
29:D1:1233:G:C2	29:D1:1234:G:C8	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1246:G:C5	29:D1:1264:G:C2	3.01	0.48
29:D1:1317:A:C5	29:D1:1319:G:C5	3.01	0.48
29:D1:1317:A:N7	29:D1:1319:G:N7	2.61	0.48
29:D1:1326:A:C6	29:D1:1327:C:C4	3.02	0.48
29:D1:1330:A:C8	29:D1:1330:A:C3'	2.97	0.48
29:D1:1406:A:H2	29:D1:1407:A:C2	2.31	0.48
29:D1:1449:A:N3	29:D1:2356:A:C5	2.81	0.48
29:D1:1454:A:C8	29:D1:1454:A:H3'	2.49	0.48
29:D1:1515:A:H2'	29:D1:1516:C:C6	2.48	0.48
29:D1:1524:A:O4'	29:D1:1607:U:O2	2.31	0.48
29:D1:1526:U:O4'	29:D1:1594:A:N1	2.46	0.48
29:D1:1641:U:H4'	29:D1:1642:A:OP1	2.13	0.48
29:D1:1645:U:H2'	29:D1:1646:G:O5'	2.14	0.48
29:D1:1695:U:O2	29:D1:1749:A:C2	2.67	0.48
29:D1:1783:U:C2	29:D1:1784:G:N7	2.82	0.48
29:D1:2102:U:H2'	29:D1:2103:U:C5	2.49	0.48
29:D1:2182:A:C2'	29:D1:2183:A:H5'	2.44	0.48
29:D1:2254:U:C2'	29:D1:2255:A:OP1	2.60	0.48
29:D1:2588:U:O2	29:D1:2588:U:H2'	2.13	0.48
29:D1:2655:U:O4'	29:D1:2656:A:C4	2.66	0.48
29:D1:2717:U:C6	29:D1:2717:U:H5'	2.49	0.48
29:D1:2897:A:N7	29:D1:2899:C:O4'	2.46	0.48
29:D1:2901:G:O5'	29:D1:2901:G:H8	1.96	0.48
29:D1:2906:C:H2'	29:D1:2907:G:O4'	2.13	0.48
29:D1:3172:A:C1'	29:D1:3173:G:N7	2.67	0.48
29:D1:3198:U:O2	29:D1:3199:G:C8	2.66	0.48
29:D1:3377:G:C5'	74:D1:3452:OHX:N2	2.77	0.48
29:D1:3390:G:N3	29:D1:3391:A:H1'	2.29	0.48
30:D2:30:G:N1	30:D2:49:G:C2	2.78	0.48
31:D3:40:A:N6	31:D3:104:A:N9	2.62	0.48
32:DA:150:ASP:C	32:DA:152:ARG:H	2.21	0.48
33:DB:4:VAL:C	33:DB:5:ILE:O	2.56	0.48
33:DB:6:ARG:O	33:DB:7:ASN:C	2.57	0.48
45:DP:62:THR:O	45:DP:63:ALA:HB3	2.13	0.48
61:Df:57:VAL:HA	61:Df:58:PHE:CB	2.43	0.48
63:Dh:18:UNK:O	63:Dh:19:UNK:C	2.61	0.48
1:A1:61:A:C4'	1:A1:62:A:H3'	2.41	0.48
1:A1:130:C:C5	1:A1:131:C:H1'	2.49	0.48
1:A1:228:G:C6	1:A1:229:U:N3	2.81	0.48
1:A1:330:G:C2	1:A1:331:A:C8	3.01	0.48
1:A1:353:A:N6	1:A1:354:C:N3	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:381:C:H1'	1:A1:756:A:C2	2.49	0.48
1:A1:474:A:N1	1:A1:594:A:H5'	2.29	0.48
1:A1:528:U:O2	1:A1:528:U:O4'	2.32	0.48
1:A1:547:U:O2'	1:A1:596:C:O2	2.27	0.48
1:A1:551:G:O4'	1:A1:581:U:O2	2.32	0.48
1:A1:665:U:H2'	1:A1:666:U:C5'	2.43	0.48
1:A1:704:C:C1'	1:A1:705:U:OP1	2.61	0.48
1:A1:819:G:HO2'	1:A1:820:U:P	2.37	0.48
1:A1:945:U:O2'	1:A1:946:U:H5'	2.14	0.48
1:A1:1188:G:H2'	1:A1:1189:A:C8	2.42	0.48
1:A1:1230:A:H2'	1:A1:1230:A:N3	2.28	0.48
1:A1:1262:U:H2'	1:A1:1263:G:H8	1.78	0.48
1:A1:1346:A:P	1:A1:1346:A:O4'	2.72	0.48
1:A1:1404:C:H2'	1:A1:1405:G:C8	2.47	0.48
1:A1:1438:G:H8	1:A1:1438:G:H5'	1.78	0.48
1:A1:1452:U:C4	1:A1:1453:G:N7	2.82	0.48
1:A1:1602:C:C5'	1:A1:1603:U:OP2	2.61	0.48
1:A1:1671:A:C2	1:A1:1672:G:H1'	2.48	0.48
1:A1:1747:G:H2'	1:A1:1748:G:C8	2.49	0.48
2:AA:13:ASP:C	2:AA:17:LEU:O	2.57	0.48
6:AE:123:HIS:C	6:AE:125:ALA:N	2.71	0.48
10:AI:73:PRO:O	10:AI:74:ALA:CB	2.62	0.48
25:Ad:86:UNK:C	25:Ad:88:UNK:N	2.74	0.48
29:B1:7:C:N3	29:B1:8:C:C4	2.82	0.48
29:B1:30:G:C2	29:B1:55:G:C5	3.02	0.48
29:B1:191:U:O2	29:B1:191:U:C2'	2.60	0.48
29:B1:291:C:O2'	29:B1:2599:U:H1'	2.13	0.48
29:B1:422:A:H1'	29:B1:423:A:O5'	2.12	0.48
29:B1:514:G:H3'	29:B1:515:C:C5	2.49	0.48
29:B1:548:G:C8	29:B1:548:G:OP2	2.65	0.48
29:B1:588:G:C4	29:B1:612:U:C5	3.02	0.48
29:B1:628:A:C5'	29:B1:1399:A:N7	2.76	0.48
29:B1:637:C:N1	29:B1:2361:A:C2	2.81	0.48
29:B1:736:A:N7	29:B1:737:G:N7	2.61	0.48
29:B1:826:G:N3	29:B1:827:A:C8	2.81	0.48
29:B1:901:G:C6	29:B1:902:G:N7	2.81	0.48
29:B1:954:U:C5	29:B1:1115:G:O2'	2.65	0.48
29:B1:955:U:C4	29:B1:967:A:C6	3.02	0.48
29:B1:993:G:N3	29:B1:2637:A:C2'	2.70	0.48
29:B1:1156:C:C2'	29:B1:1156:C:O2	2.60	0.48
29:B1:1260:A:C6	29:B1:1261:G:C8	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1296:C:O2'	29:B1:1297:C:P	2.71	0.48
29:B1:1380:G:C2	29:B1:1381:A:N7	2.82	0.48
29:B1:1522:U:C6	29:B1:1835:A:O4'	2.66	0.48
29:B1:1601:U:O2	29:B1:1603:A:OP2	2.32	0.48
29:B1:1682:U:H5'	29:B1:1683:A:OP2	2.14	0.48
29:B1:1807:G:H8	29:B1:1807:G:OP2	1.96	0.48
29:B1:1900:A:O4'	29:B1:1901:A:N1	2.46	0.48
29:B1:1912:U:H1'	29:B1:1913:A:OP1	2.14	0.48
29:B1:2137:U:OP1	29:B1:2137:U:C4'	2.62	0.48
29:B1:2315:G:N2	29:B1:2316:G:C5	2.82	0.48
29:B1:2357:A:H2'	29:B1:2358:A:O5'	2.12	0.48
29:B1:2412:G:C4	29:B1:2811:A:C2	3.02	0.48
29:B1:2610:G:N3	29:B1:2611:U:C6	2.82	0.48
29:B1:2727:A:N1	29:B1:2729:U:H5	2.11	0.48
29:B1:2743:A:C5	29:B1:2744:U:C5	3.02	0.48
29:B1:2951:G:O2'	29:B1:2952:G:H5'	2.13	0.48
29:B1:2955:U:C2	29:B1:2956:A:C8	3.02	0.48
29:B1:3040:A:N3	29:B1:3040:A:H2'	2.27	0.48
29:B1:3109:G:N3	29:B1:3110:C:C6	2.81	0.48
29:B1:3114:A:N7	29:B1:3115:C:C6	2.81	0.48
29:B1:3255:U:H2'	29:B1:3256:G:C8	2.48	0.48
29:B1:3260:G:C6	29:B1:3261:C:C1'	2.97	0.48
29:B1:3306:U:O2'	29:B1:3309:G:N1	2.42	0.48
74:B1:3536:OHX:N5	61:Bf:47:GLN:O	2.46	0.48
30:B2:9:C:C6	30:B2:9:C:OP2	2.67	0.48
30:B2:57:G:C8	30:B2:58:C:C6	3.02	0.48
30:B2:67:G:N2	30:B2:68:C:C1'	2.77	0.48
31:B3:106:C:C6	31:B3:138:A:N7	2.81	0.48
35:BD:254:ALA:O	35:BD:258:LEU:N	2.46	0.48
36:BE:150:LEU:O	36:BE:151:GLN:O	2.32	0.48
37:BF:60:ASP:O	37:BF:61:ASN:CB	2.61	0.48
38:BG:187:GLU:O	38:BG:188:ILE:C	2.56	0.48
39:BH:99:PRO:HA	39:BH:236:GLY:H	1.78	0.48
41:BJ:170:LYS:O	41:BJ:178:ARG:N	2.47	0.48
53:BX:73:VAL:HA	53:BX:80:VAL:HA	1.96	0.48
62:Bg:58:SER:C	62:Bg:60:CYS:H	2.21	0.48
62:Bg:73:THR:CB	62:Bg:76:ALA:HB3	2.44	0.48
63:Bh:38:UNK:O	63:Bh:39:UNK:O	2.31	0.48
71:Br:12:UNK:O	71:Br:14:UNK:N	2.47	0.48
1:C1:16:G:C2	1:C1:17:C:N3	2.82	0.48
1:C1:57:G:O6	74:C1:1995:OHX:N6	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:70:C:C4	1:C1:71:A:N6	2.82	0.48
1:C1:223:U:H2'	1:C1:224:C:C6	2.48	0.48
1:C1:224:C:N3	1:C1:838:G:C2	2.81	0.48
1:C1:250:C:OP2	1:C1:251:A:OP2	2.32	0.48
1:C1:286:C:H2'	1:C1:287:G:H8	1.76	0.48
1:C1:335:U:C4	1:C1:336:G:C6	3.02	0.48
1:C1:351:C:OP1	1:C1:630:A:O2'	2.31	0.48
1:C1:356:G:C2	1:C1:357:G:C8	3.02	0.48
1:C1:464:A:H2'	1:C1:464:A:N3	2.28	0.48
1:C1:647:G:C2	1:C1:687:G:N1	2.81	0.48
1:C1:876:G:C8	1:C1:944:A:C2	3.02	0.48
1:C1:986:G:H2'	1:C1:987:G:C8	2.43	0.48
1:C1:990:C:H4'	9:CH:128:LYS:O	2.14	0.48
1:C1:993:A:C8	1:C1:994:G:C8	3.01	0.48
1:C1:1043:A:C4	1:C1:1044:U:C5	3.02	0.48
1:C1:1141:G:N3	1:C1:1142:A:C8	2.82	0.48
1:C1:1142:A:H2'	1:C1:1143:A:C8	2.49	0.48
1:C1:1206:U:H5'	1:C1:1207:C:OP2	2.14	0.48
1:C1:1224:A:C6	1:C1:1225:U:O4	2.66	0.48
1:C1:1258:U:H2'	1:C1:1259:U:C1'	2.42	0.48
1:C1:1344:A:O2'	1:C1:1345:A:O5'	2.31	0.48
1:C1:1542:G:H21	1:C1:1568:C:H2'	1.73	0.48
1:C1:1619:C:N3	1:C1:1620:C:H5	2.12	0.48
1:C1:1673:G:C8	1:C1:1674:C:C5	3.01	0.48
5:CD:180:ARG:O	5:CD:182:ALA:N	2.46	0.48
10:CI:11:VAL:O	10:CI:13:LYS:N	2.42	0.48
10:CI:98:ASN:H	10:CI:101:ALA:HB3	1.79	0.48
17:CP:114:LYS:CB	17:CP:115:GLY:CA	2.92	0.48
18:CQ:41:ILE:C	18:CQ:43:ASP:H	2.21	0.48
29:D1:34:A:C8	29:D1:51:A:C6	3.01	0.48
29:D1:65:A:H2'	29:D1:111:C:H41	1.78	0.48
29:D1:140:C:O2'	29:D1:141:C:H5'	2.12	0.48
29:D1:246:U:H3'	29:D1:246:U:P	2.54	0.48
29:D1:405:U:C5	29:D1:406:G:C8	3.02	0.48
29:D1:495:G:H2'	29:D1:496:C:H5'	1.94	0.48
29:D1:509:U:N3	29:D1:510:G:C8	2.82	0.48
29:D1:559:A:H2'	29:D1:560:G:C8	2.48	0.48
29:D1:576:C:C2'	29:D1:577:C:O5'	2.61	0.48
29:D1:596:C:N4	29:D1:608:A:N3	2.61	0.48
29:D1:623:U:C2'	29:D1:624:G:H8	2.22	0.48
29:D1:733:G:HO2'	29:D1:734:C:H5	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:738:A:N3	29:D1:739:G:C8	2.81	0.48
29:D1:832:G:N1	29:D1:863:C:C4	2.81	0.48
29:D1:1149:G:H3'	29:D1:1150:A:C5'	2.44	0.48
29:D1:1153:A:N6	29:D1:1154:A:N1	2.56	0.48
29:D1:1170:A:N7	29:D1:1171:G:C8	2.82	0.48
29:D1:1180:A:N3	29:D1:1182:A:N9	2.61	0.48
29:D1:1183:C:C3'	29:D1:1184:A:H5"	2.43	0.48
29:D1:1205:A:C5	29:D1:1206:G:C8	3.01	0.48
29:D1:1246:G:C6	29:D1:1264:G:C2	3.01	0.48
29:D1:1357:G:C2'	29:D1:1358:C:C6	2.96	0.48
29:D1:1393:A:N7	29:D1:1418:A:N9	2.61	0.48
29:D1:1403:C:H5'	29:D1:1404:G:OP2	2.14	0.48
29:D1:1883:A:H2'	29:D1:1883:A:N3	2.28	0.48
29:D1:1895:A:C6	29:D1:2341:A:N1	2.82	0.48
29:D1:1903:U:C2	29:D1:1905:G:C5'	2.94	0.48
29:D1:2297:U:OP2	29:D1:2297:U:H6	1.96	0.48
29:D1:2313:A:C1'	29:D1:2315:G:C8	2.97	0.48
29:D1:2340:U:C2'	29:D1:2341:A:H5'	2.44	0.48
29:D1:2390:A:O4'	29:D1:3307:A:N1	2.47	0.48
29:D1:2547:A:C6	29:D1:2548:C:N4	2.81	0.48
29:D1:2860:U:H1'	29:D1:2939:G:OP1	2.13	0.48
29:D1:2964:G:C6	29:D1:2968:G:O6	2.66	0.48
29:D1:3047:U:N3	29:D1:3048:A:N1	2.62	0.48
29:D1:3055:U:O2'	29:D1:3057:U:OP1	2.24	0.48
29:D1:3182:G:H2'	29:D1:3183:A:O4'	2.14	0.48
29:D1:3294:A:C2	29:D1:3395:G:N2	2.82	0.48
29:D1:3330:A:C4	29:D1:3331:U:C5	3.01	0.48
30:D2:2:G:C2	30:D2:3:U:C5	3.02	0.48
30:D2:88:G:N3	30:D2:89:G:C8	2.82	0.48
30:D2:102:A:H2'	30:D2:103:A:O5'	2.14	0.48
31:D3:4:C:H2'	31:D3:5:U:H5'	1.94	0.48
31:D3:74:U:H4'	31:D3:89:A:C4	2.48	0.48
34:DC:24:SER:O	34:DC:26:ARG:O	2.32	0.48
34:DC:299:ASP:C	34:DC:301:THR:N	2.71	0.48
35:DD:181:VAL:O	35:DD:182:LEU:CB	2.62	0.48
36:DE:157:ALA:O	36:DE:158:ARG:C	2.57	0.48
44:DO:56:LYS:HA	44:DO:57:GLN:HA	1.58	0.48
46:DQ:16:SER:HA	46:DQ:149:VAL:HA	1.95	0.48
46:DQ:22:LEU:O	46:DQ:144:SER:N	2.40	0.48
48:DS:120:TYR:O	48:DS:121:HIS:C	2.57	0.48
55:DZ:82:GLY:O	55:DZ:83:LYS:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Df:52:GLY:O	61:Df:53:GLN:CB	2.62	0.48
1:A1:23:G:H2'	1:A1:24:U:H6	1.79	0.48
1:A1:62:A:H1'	1:A1:63:G:P	2.54	0.48
1:A1:71:A:C2	1:A1:72:A:N6	2.71	0.48
1:A1:93:A:C6	1:A1:398:G:C6	3.01	0.48
1:A1:227:U:O2'	1:A1:228:G:OP2	2.23	0.48
1:A1:287:G:C2'	1:A1:288:A:H5'	2.44	0.48
1:A1:418:G:N2	1:A1:419:G:C5	2.82	0.48
1:A1:469:C:H5"	1:A1:470:A:OP2	2.13	0.48
1:A1:551:G:N1	1:A1:552:G:C6	2.82	0.48
1:A1:619:A:O5'	1:A1:620:A:OP2	2.31	0.48
1:A1:929:A:N6	1:A1:930:A:C2	2.82	0.48
1:A1:938:G:H5'	1:A1:939:A:OP2	2.13	0.48
1:A1:986:G:C4'	1:A1:987:G:OP1	2.62	0.48
1:A1:1275:A:C8	1:A1:1438:G:N2	2.81	0.48
1:A1:1331:A:H2'	1:A1:1332:C:C5'	2.44	0.48
1:A1:1359:C:C2	1:A1:1360:A:C8	3.02	0.48
1:A1:1536:G:N3	1:A1:1536:G:C2'	2.75	0.48
1:A1:1584:G:N1	11:AJ:125:GLU:O	2.39	0.48
1:A1:1631:A:H2'	1:A1:1632:C:C4'	2.43	0.48
1:A1:1664:C:O2	1:A1:1665:U:H1'	2.14	0.48
1:A1:1691:A:N7	1:A1:1692:G:C4	2.82	0.48
1:A1:1746:A:O5'	1:A1:1746:A:H8	1.97	0.48
4:AC:7:LYS:O	4:AC:8:LYS:C	2.56	0.48
4:AC:75:LYS:O	4:AC:78:LYS:HA	2.14	0.48
8:AG:108:ASP:O	8:AG:111:ALA:CB	2.61	0.48
20:AS:26:SER:O	20:AS:28:THR:N	2.42	0.48
28:Ah:13:UNK:C	28:Ah:15:UNK:N	2.74	0.48
29:B1:80:G:N1	29:B1:81:C:C5	2.82	0.48
29:B1:120:G:N2	29:B1:150:A:C8	2.81	0.48
29:B1:144:A:H2'	29:B1:145:G:C1'	2.43	0.48
29:B1:331:G:O2'	29:B1:332:C:P	2.72	0.48
29:B1:359:U:H4'	29:B1:817:A:N6	2.29	0.48
29:B1:372:A:C6	29:B1:373:A:C6	3.01	0.48
29:B1:383:G:H5'	29:B1:385:A:OP2	2.13	0.48
29:B1:411:U:C2	31:B3:13:A:C2	3.02	0.48
29:B1:532:A:N1	29:B1:533:A:N3	2.62	0.48
29:B1:580:C:H5"	29:B1:581:U:OP2	2.14	0.48
29:B1:603:A:O5'	29:B1:603:A:H8	1.97	0.48
29:B1:668:G:C2'	29:B1:669:U:O5'	2.61	0.48
29:B1:720:A:H8	29:B1:720:A:P	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:771:A:C3'	29:B1:772:U:C5'	2.92	0.48
29:B1:839:C:H2'	29:B1:840:C:C6	2.49	0.48
29:B1:1014:U:H4'	29:B1:1014:U:OP1	2.08	0.48
29:B1:1079:A:O4'	36:BE:141:PRO:CB	2.62	0.48
29:B1:1135:A:O2'	29:B1:1136:A:H5'	2.14	0.48
29:B1:1192:C:OP1	29:B1:1192:C:O2	2.31	0.48
29:B1:1647:A:C2	29:B1:1809:A:H1'	2.49	0.48
29:B1:1681:U:H5'	29:B1:1682:U:OP2	2.13	0.48
29:B1:1760:A:C6	29:B1:1766:G:C5	3.02	0.48
29:B1:1907:C:H5	29:B1:1908:A:C5	2.31	0.48
29:B1:2188:A:C2	62:Bg:19:GLY:HA2	2.47	0.48
29:B1:2317:A:H2'	29:B1:2318:U:O4'	2.13	0.48
29:B1:2536:A:C2	29:B1:2537:U:C2	3.02	0.48
29:B1:2607:G:C5	29:B1:2608:G:N7	2.82	0.48
29:B1:2614:G:C6	29:B1:2615:G:C5	3.01	0.48
29:B1:2673:A:C2	29:B1:2676:A:H8	2.32	0.48
29:B1:2677:G:N1	29:B1:2679:A:C4	2.81	0.48
29:B1:2684:C:N3	29:B1:2685:C:C5	2.81	0.48
29:B1:2732:G:C5	29:B1:2733:A:C8	3.02	0.48
29:B1:2738:A:H3'	29:B1:2739:A:H8	1.79	0.48
29:B1:2841:G:C5	29:B1:2844:C:N4	2.82	0.48
29:B1:3073:A:H2'	29:B1:3074:G:O4'	2.12	0.48
29:B1:3083:G:C2'	29:B1:3084:C:O5'	2.62	0.48
29:B1:3123:A:C2'	29:B1:3124:G:H5'	2.43	0.48
29:B1:3171:U:C2'	29:B1:3172:A:OP2	2.62	0.48
29:B1:3205:G:H2'	29:B1:3206:C:C5	2.49	0.48
29:B1:3314:A:H2'	34:BC:119:TYR:H	1.74	0.48
29:B1:3315:G:H4'	29:B1:3319:U:O3'	2.14	0.48
29:B1:3348:G:C2	29:B1:3349:C:H1'	2.49	0.48
29:B1:3387:U:N3	29:B1:3388:C:N4	2.61	0.48
29:B1:3391:A:C2	29:B1:3392:U:N1	2.81	0.48
29:B1:3393:U:C2	29:B1:3394:U:C5	3.02	0.48
30:B2:37:G:H21	30:B2:44:C:N4	2.10	0.48
30:B2:41:G:C2	30:B2:43:U:C6	3.02	0.48
31:B3:8:C:C5	31:B3:9:A:N7	2.82	0.48
31:B3:48:A:C4	31:B3:51:G:N7	2.82	0.48
31:B3:65:A:C2'	31:B3:66:A:H8	2.11	0.48
31:B3:65:A:C8	31:B3:66:A:N7	2.82	0.48
31:B3:79:A:H3'	31:B3:80:A:C8	2.49	0.48
33:BB:200:ARG:O	33:BB:203:ALA:N	2.45	0.48
34:BC:39:LYS:O	34:BC:40:PRO:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:108:ARG:O	44:BO:110:ALA:N	2.47	0.48
44:BO:146:ALA:C	44:BO:148:TYR:N	2.72	0.48
49:BT:76:ILE:O	49:BT:77:ASN:CB	2.61	0.48
53:BX:116:LYS:O	53:BX:117:ALA:C	2.57	0.48
63:Bh:43:UNK:O	63:Bh:44:UNK:C	2.60	0.48
65:Bk:6:UNK:O	65:Bk:8:UNK:C	2.61	0.48
65:Bk:6:UNK:HA	65:Bk:9:UNK:CB	2.42	0.48
1:C1:114:C:C5	1:C1:248:U:C4	3.01	0.48
1:C1:148:A:N6	1:C1:167:U:C2	2.82	0.48
1:C1:210:A:C3'	1:C1:211:U:H5"	2.44	0.48
1:C1:359:A:H2'	1:C1:359:A:N3	2.28	0.48
1:C1:372:G:H1'	1:C1:612:U:H3	1.78	0.48
1:C1:451:A:N6	1:C1:456:A:N6	2.60	0.48
1:C1:568:G:H2'	1:C1:569:C:H5'	1.96	0.48
1:C1:605:A:N6	1:C1:606:A:H61	2.11	0.48
1:C1:620:A:C6	1:C1:621:A:N1	2.81	0.48
1:C1:783:G:C2'	1:C1:784:C:O5'	2.62	0.48
1:C1:800:U:C2	1:C1:801:G:N7	2.82	0.48
1:C1:818:C:C2'	1:C1:819:G:C8	2.97	0.48
1:C1:1086:A:C2	1:C1:1141:G:N3	2.81	0.48
1:C1:1096:C:C2'	1:C1:1100:G:OP2	2.62	0.48
1:C1:1124:A:H2'	1:C1:1125:A:O4'	2.14	0.48
1:C1:1172:G:C5	1:C1:1173:C:N4	2.82	0.48
1:C1:1348:A:O3'	15:CN:11:GLU:HA	2.13	0.48
1:C1:1353:U:H3	1:C1:1371:A:H61	1.61	0.48
1:C1:1358:G:O2'	14:CM:129:GLN:O	2.20	0.48
1:C1:1569:A:C2	1:C1:1570:A:C8	3.01	0.48
1:C1:1602:C:C2	1:C1:1603:U:C6	3.01	0.48
1:C1:1620:C:O2	1:C1:1620:C:C2'	2.60	0.48
1:C1:1684:U:H3'	1:C1:1685:G:H5'	1.96	0.48
1:C1:1696:G:N2	1:C1:1708:U:H1'	2.29	0.48
1:C1:1771:U:C2	1:C1:1772:C:C6	3.02	0.48
6:CE:123:HIS:C	6:CE:125:ALA:N	2.72	0.48
8:CG:93:LYS:O	8:CG:96:VAL:N	2.41	0.48
17:CP:132:LEU:N	17:CP:133:LEU:C	2.71	0.48
21:CT:181:TRP:CB	21:CT:188:ILE:HA	2.44	0.48
29:D1:88:A:H3'	29:D1:88:A:C8	2.48	0.48
29:D1:92:G:N7	29:D1:94:G:N2	2.62	0.48
29:D1:102:C:H1'	29:D1:103:G:P	2.54	0.48
29:D1:271:C:C4	29:D1:295:A:N7	2.81	0.48
29:D1:532:A:C2'	29:D1:533:A:C8	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:641:C:O2'	29:D1:642:U:P	2.71	0.48
29:D1:665:A:C6	29:D1:666:A:C5	3.01	0.48
29:D1:716:A:P	29:D1:716:A:O4'	2.71	0.48
29:D1:737:G:C2	29:D1:738:A:C8	3.02	0.48
29:D1:774:G:C4	29:D1:775:A:C8	3.02	0.48
29:D1:945:C:H3'	29:D1:946:U:C6	2.49	0.48
29:D1:1255:C:H2'	29:D1:1255:C:O2	2.14	0.48
29:D1:1397:C:C4	29:D1:1398:U:C4	3.01	0.48
29:D1:1406:A:C2	29:D1:1407:A:C4	3.02	0.48
29:D1:1677:G:C5	29:D1:1678:G:N7	2.82	0.48
29:D1:1779:C:H4'	29:D1:1779:C:OP1	2.13	0.48
29:D1:1794:G:C4'	29:D1:1795:U:OP2	2.55	0.48
29:D1:2140:U:H2'	29:D1:2977:G:O2'	2.14	0.48
29:D1:2258:U:H3'	29:D1:2259:A:C8	2.48	0.48
29:D1:2287:C:O2	29:D1:2298:U:C4'	2.62	0.48
29:D1:2561:A:P	29:D1:2561:A:C8	3.06	0.48
29:D1:2585:G:C8	31:D3:151:C:C2	3.01	0.48
29:D1:2699:G:H2'	29:D1:2700:G:H8	1.77	0.48
29:D1:2739:A:N3	29:D1:2739:A:H2'	2.28	0.48
29:D1:2908:G:C6	29:D1:2909:U:C4	3.02	0.48
29:D1:2992:U:O4	29:D1:2993:G:C8	2.67	0.48
29:D1:3100:U:O2'	29:D1:3101:G:H8	1.92	0.48
29:D1:3113:A:N1	29:D1:3122:A:C8	2.82	0.48
29:D1:3113:A:O2'	29:D1:3114:A:H5'	2.14	0.48
29:D1:3215:A:H5"	29:D1:3218:A:P	2.54	0.48
29:D1:3271:G:N3	29:D1:3271:G:C3'	2.77	0.48
29:D1:3300:U:OP2	29:D1:3300:U:O4'	2.32	0.48
29:D1:3316:A:H4'	29:D1:3317:U:OP2	2.11	0.48
29:D1:3353:G:O6	29:D1:3356:G:C5	2.67	0.48
30:D2:43:U:O2	30:D2:44:C:O4'	2.31	0.48
31:D3:49:G:C2'	31:D3:50:C:O5'	2.62	0.48
31:D3:67:U:O3'	31:D3:68:G:O4'	2.32	0.48
31:D3:78:G:N1	31:D3:79:A:C6	2.82	0.48
34:DC:17:LEU:CB	34:DC:18:PRO:HA	2.44	0.48
39:DH:109:LEU:O	39:DH:110:THR:CB	2.61	0.48
39:DH:158:ASP:HA	39:DH:159:PRO:C	2.36	0.48
41:DJ:58:GLU:O	41:DJ:128:ARG:HA	2.14	0.48
73:DM:31:ASP:O	73:DM:32:ASN:CB	2.62	0.48
43:DN:93:LYS:O	43:DN:96:ALA:N	2.46	0.48
44:DO:144:ARG:C	44:DO:146:ALA:H	2.21	0.48
49:DT:75:ILE:HA	49:DT:89:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DV:49:ILE:C	51:DV:51:TRP:H	2.21	0.48
54:DY:139:ARG:HA	54:DY:143:GLY:H	1.78	0.48
60:De:38:ASN:C	60:De:40:LYS:H	2.22	0.48
1:A1:107:C:O2'	1:A1:362:G:N3	2.47	0.48
1:A1:156:A:H5'	1:A1:416:A:H8	1.77	0.48
1:A1:184:C:C5	1:A1:202:A:H2	2.30	0.48
1:A1:250:C:H2'	1:A1:251:A:O4'	2.13	0.48
1:A1:526:A:OP1	1:A1:527:A:N6	2.47	0.48
1:A1:539:G:N3	1:A1:543:C:C4	2.82	0.48
1:A1:545:A:N7	1:A1:594:A:N7	2.61	0.48
1:A1:551:G:C2	1:A1:552:G:C8	3.01	0.48
1:A1:607:G:C8	1:A1:613:G:C4	3.02	0.48
1:A1:818:C:H2'	1:A1:819:G:C8	2.48	0.48
1:A1:823:G:H21	1:A1:824:G:H2'	1.78	0.48
1:A1:825:U:C5	1:A1:826:U:C2	3.02	0.48
1:A1:975:C:C4	1:A1:976:G:C5	3.01	0.48
1:A1:1121:C:H1'	1:A1:1127:G:H22	1.77	0.48
1:A1:1122:G:C2	1:A1:1126:G:C6	3.02	0.48
1:A1:1162:C:O2'	1:A1:1163:A:H5'	2.14	0.48
1:A1:1183:A:C5	1:A1:1184:A:C6	3.02	0.48
1:A1:1332:C:O2'	1:A1:1333:C:O5'	2.27	0.48
1:A1:1439:C:O5'	1:A1:1439:C:H6	1.97	0.48
1:A1:1472:C:O2	1:A1:1472:C:H2'	2.12	0.48
1:A1:1540:G:OP2	1:A1:1541:G:OP2	2.31	0.48
1:A1:1552:U:N3	1:A1:1553:G:C5	2.80	0.48
1:A1:1584:G:N2	1:A1:1585:U:OP1	2.47	0.48
1:A1:1647:U:H3	1:A1:1754:A:H61	1.61	0.48
1:A1:1753:A:H3'	1:A1:1754:A:C5'	2.27	0.48
1:A1:1758:U:H2'	1:A1:1759:C:C5	2.48	0.48
1:A1:1764:C:OP2	1:A1:1771:U:H5"	2.14	0.48
1:A1:1781:A:C6	1:A1:1782:A:C6	3.01	0.48
2:AA:162:CYS:O	2:AA:163:ASN:CB	2.62	0.48
4:AC:19:ALA:HB2	20:AS:49:ASP:CB	2.44	0.48
5:AD:91:GLU:O	5:AD:92:ARG:C	2.56	0.48
5:AD:197:GLU:O	5:AD:201:ALA:HB2	2.14	0.48
6:AE:121:SER:O	6:AE:122:VAL:C	2.57	0.48
15:AN:52:LYS:HA	15:AN:92:ASP:O	2.14	0.48
16:AO:112:ASP:O	16:AO:113:HIS:C	2.55	0.48
21:AT:135:THR:C	21:AT:137:LYS:H	2.22	0.48
24:Ac:2:UNK:N	24:Ac:74:UNK:HA	2.28	0.48
24:Ac:47:UNK:O	24:Ac:68:UNK:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Ad:85:UNK:C	25:Ad:87:UNK:N	2.75	0.48
27:Af:10:UNK:C	27:Af:12:UNK:N	2.74	0.48
29:B1:62:A:C6	29:B1:63:A:C5	3.02	0.48
29:B1:85:A:H61	29:B1:99:A:H3'	1.78	0.48
29:B1:155:G:H4'	29:B1:156:G:OP1	2.13	0.48
29:B1:249:U:H5"	29:B1:249:U:O2	2.13	0.48
29:B1:268:A:O4'	29:B1:270:U:H1'	2.13	0.48
29:B1:282:G:C4'	29:B1:283:G:C8	2.96	0.48
29:B1:341:G:C2	31:B3:24:G:O6	2.67	0.48
29:B1:371:G:H2'	29:B1:373:A:N7	2.28	0.48
29:B1:382:U:C2	29:B1:383:G:H1'	2.49	0.48
29:B1:413:U:O2'	29:B1:414:U:H5'	2.14	0.48
29:B1:505:G:C2'	29:B1:506:U:O5'	2.62	0.48
29:B1:512:U:N3	29:B1:579:G:C6	2.81	0.48
29:B1:525:C:H2'	29:B1:526:C:H6	1.78	0.48
29:B1:681:U:C1'	29:B1:682:U:H5'	2.38	0.48
29:B1:716:A:OP2	29:B1:716:A:O4'	2.31	0.48
29:B1:726:G:H8	29:B1:726:G:H5'	1.79	0.48
29:B1:730:C:O3'	47:BR:135:GLN:HA	2.13	0.48
29:B1:799:G:O6	74:B1:3496:OHX:N6	2.47	0.48
29:B1:913:A:C2'	29:B1:914:A:OP2	2.61	0.48
29:B1:945:C:C2'	29:B1:946:U:H6	2.26	0.48
29:B1:995:U:HO2'	29:B1:996:A:P	2.37	0.48
29:B1:1019:G:O6	29:B1:1033:U:O4	2.32	0.48
29:B1:1061:A:N6	29:B1:1062:A:C6	2.82	0.48
29:B1:1062:A:HO2'	29:B1:1063:G:P	2.28	0.48
29:B1:1139:G:C6	29:B1:1140:G:N7	2.82	0.48
29:B1:1150:A:H2'	29:B1:1151:U:O5'	2.14	0.48
29:B1:1184:A:C2'	29:B1:1185:C:O5'	2.61	0.48
29:B1:1247:U:P	29:B1:1248:C:H41	2.37	0.48
29:B1:1247:U:C5'	29:B1:1248:C:OP1	2.62	0.48
29:B1:1304:A:N3	29:B1:2939:G:H1'	2.28	0.48
29:B1:1421:G:N2	29:B1:1422:G:C5	2.81	0.48
29:B1:1629:U:H3'	29:B1:1630:U:C5'	2.43	0.48
29:B1:1680:G:N3	29:B1:1681:U:H6	2.08	0.48
29:B1:1814:A:H2'	29:B1:1814:A:N3	2.29	0.48
29:B1:2361:A:C5	29:B1:2362:C:C4	3.02	0.48
29:B1:2406:C:C2	29:B1:2819:A:N6	2.82	0.48
29:B1:2520:A:C5	29:B1:2521:U:N3	2.82	0.48
29:B1:2722:U:C2	29:B1:2723:U:C5	3.02	0.48
29:B1:2748:A:C5	29:B1:2749:G:H1'	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2749:G:C5	29:B1:2750:U:C5	3.01	0.48
29:B1:2847:A:C2	29:B1:2848:G:C1'	2.97	0.48
29:B1:2869:U:O2	29:B1:2869:U:C2'	2.62	0.48
29:B1:2937:G:H2'	29:B1:2938:G:C5'	2.44	0.48
29:B1:3024:A:H3'	29:B1:3025:C:C6	2.48	0.48
29:B1:3034:C:C6	29:B1:3034:C:C3'	2.96	0.48
29:B1:3059:G:C8	29:B1:3059:G:H5"	2.49	0.48
29:B1:3068:U:OP1	48:BS:58:HIS:CA	2.59	0.48
29:B1:3132:C:O2'	29:B1:3133:C:H5'	2.14	0.48
29:B1:3151:U:O2	29:B1:3152:U:O4	2.32	0.48
29:B1:3274:A:O4'	29:B1:3275:U:OP2	2.31	0.48
29:B1:3276:G:C3'	29:B1:3277:U:O4'	2.61	0.48
29:B1:3281:U:C4	29:B1:3282:U:C4	3.01	0.48
29:B1:3303:G:C2'	29:B1:3304:U:H5'	2.44	0.48
29:B1:3310:A:H2'	29:B1:3310:A:N3	2.28	0.48
29:B1:3373:U:C4	29:B1:3374:U:H5	2.31	0.48
30:B2:26:C:O2'	30:B2:27:A:C4'	2.62	0.48
30:B2:67:G:C6	30:B2:68:C:C2	3.01	0.48
31:B3:35:C:C5	31:B3:36:G:N7	2.82	0.48
34:BC:80:ASP:O	34:BC:82:PRO:N	2.47	0.48
34:BC:91:GLY:HA3	34:BC:158:VAL:CB	2.44	0.48
34:BC:238:LEU:CB	34:BC:246:LEU:O	2.62	0.48
36:BE:156:GLY:O	36:BE:157:ALA:HB2	2.13	0.48
38:BG:28:ALA:O	38:BG:29:GLU:C	2.56	0.48
42:BK:120:ILE:O	42:BK:121:GLY:O	2.31	0.48
43:BN:111:ALA:O	43:BN:112:LEU:C	2.55	0.48
45:BP:112:TYR:O	45:BP:113:ASP:CB	2.60	0.48
45:BP:133:ARG:O	45:BP:134:LYS:CB	2.62	0.48
1:C1:50:C:H2'	1:C1:50:C:O2	2.13	0.48
1:C1:53:G:O6	1:C1:54:C:C4	2.66	0.48
1:C1:149:C:H2'	1:C1:149:C:O2	2.14	0.48
1:C1:150:U:H4'	1:C1:151:G:OP2	2.14	0.48
1:C1:171:A:C2'	1:C1:172:C:H5"	2.43	0.48
1:C1:429:G:H5"	1:C1:439:U:C3'	2.43	0.48
1:C1:537:G:N2	1:C1:538:A:C1'	2.77	0.48
1:C1:552:G:N1	1:C1:553:G:C2	2.82	0.48
1:C1:587:C:C2'	1:C1:588:U:O4'	2.56	0.48
1:C1:632:U:H2'	1:C1:633:U:O5'	2.13	0.48
1:C1:641:G:C2	1:C1:642:G:N7	2.82	0.48
1:C1:666:U:C2'	1:C1:666:U:O2	2.61	0.48
1:C1:862:A:H2'	1:C1:862:A:N3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1539:G:O2'	1:C1:1540:G:H5"	2.14	0.48
1:C1:1631:A:C4	1:C1:1632:C:C1'	2.97	0.48
1:C1:1705:C:H3'	1:C1:1706:C:H5'	1.96	0.48
3:CB:128:GLY:O	3:CB:129:ILE:C	2.55	0.48
5:CD:169:ASN:O	5:CD:171:ALA:N	2.47	0.48
21:CT:99:THR:O	21:CT:100:TYR:O	2.32	0.48
24:Cc:77:UNK:H	24:Cc:79:UNK:CB	2.27	0.48
29:D1:5:G:N2	31:D3:155:A:N3	2.62	0.48
29:D1:161:G:O2'	29:D1:162:G:H5'	2.14	0.48
29:D1:191:U:C6	29:D1:191:U:H5"	2.49	0.48
29:D1:191:U:H2'	29:D1:192:C:C6	2.49	0.48
29:D1:311:C:C4	29:D1:312:C:C4	3.02	0.48
29:D1:412:G:C2	29:D1:413:U:N1	2.82	0.48
29:D1:439:C:H4'	29:D1:440:A:O5'	2.13	0.48
29:D1:531:G:N2	29:D1:560:G:N2	2.62	0.48
29:D1:589:A:C8	29:D1:589:A:O5'	2.67	0.48
29:D1:591:G:N3	29:D1:592:A:C8	2.81	0.48
29:D1:642:U:H3'	29:D1:644:G:OP2	2.14	0.48
29:D1:751:A:N6	29:D1:783:A:C6	2.82	0.48
29:D1:962:A:C2'	29:D1:963:G:H5"	2.44	0.48
29:D1:1064:A:O2'	29:D1:1065:A:OP1	2.28	0.48
29:D1:1100:U:C4	29:D1:1101:G:N7	2.82	0.48
29:D1:1100:U:C2	29:D1:1101:G:C8	3.02	0.48
29:D1:1122:U:H2'	29:D1:1122:U:O2	2.13	0.48
29:D1:1137:C:C5	29:D1:1138:U:C5	3.02	0.48
29:D1:1140:G:C2	29:D1:1141:C:C4	3.02	0.48
29:D1:1164:G:C5	29:D1:1165:A:N7	2.82	0.48
29:D1:1239:C:H2'	29:D1:1240:A:H8	1.74	0.48
29:D1:1275:C:N4	29:D1:1276:U:C4	2.81	0.48
29:D1:1487:G:H1	29:D1:1855:U:H3	1.62	0.48
29:D1:1559:A:C2'	29:D1:1560:G:H5'	2.44	0.48
29:D1:1634:G:N1	29:D1:1640:G:C6	2.82	0.48
29:D1:1724:U:O2'	29:D1:1725:C:O5'	2.31	0.48
29:D1:1739:U:C6	29:D1:1739:U:H3'	2.49	0.48
29:D1:1785:U:O2'	29:D1:1786:G:P	2.72	0.48
29:D1:2119:A:C4	29:D1:2120:A:H2	2.32	0.48
29:D1:2185:G:C6	29:D1:2186:U:C5	3.02	0.48
29:D1:2218:G:C4	29:D1:2228:A:C2	3.02	0.48
29:D1:2253:G:C4	29:D1:2254:U:C6	3.02	0.48
29:D1:2307:G:C6	29:D1:2310:U:O4	2.67	0.48
29:D1:2316:G:N1	29:D1:2317:A:C5	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2326:A:N3	29:D1:2326:A:C2'	2.74	0.48
29:D1:2390:A:C6	29:D1:2391:G:C5	3.01	0.48
29:D1:2617:U:H4'	29:D1:2644:C:H5	1.74	0.48
29:D1:2668:U:C5	74:D1:3599:OHX:N5	2.82	0.48
29:D1:2929:C:H3'	29:D1:2929:C:H6	1.78	0.48
29:D1:3017:A:O2'	29:D1:3018:C:H5'	2.14	0.48
29:D1:3109:G:O2'	29:D1:3110:C:H5'	2.14	0.48
29:D1:3202:G:N2	29:D1:3203:U:O2	2.47	0.48
29:D1:3253:G:C4	29:D1:3254:G:C8	3.02	0.48
29:D1:3363:U:C5'	29:D1:3364:C:OP2	2.62	0.48
30:D2:1:G:C2	30:D2:2:G:C5	3.02	0.48
30:D2:66:A:C5	30:D2:67:G:H8	2.32	0.48
31:D3:19:C:C4	31:D3:20:U:O4	2.67	0.48
33:DB:181:LYS:O	33:DB:184:ARG:CB	2.62	0.48
35:DD:82:THR:O	35:DD:84:ARG:O	2.31	0.48
36:DE:233:ALA:O	36:DE:234:ASP:O	2.32	0.48
36:DE:255:PRO:O	36:DE:256:THR:C	2.57	0.48
41:DJ:159:PHE:O	41:DJ:161:GLY:N	2.47	0.48
72:DL:38:SER:H	72:DL:68:GLN:CA	2.24	0.48
73:DM:55:LYS:O	73:DM:59:VAL:CB	2.62	0.48
45:DP:97:ALA:O	45:DP:98:ALA:C	2.55	0.48
52:DW:60:TYR:O	52:DW:61:LYS:CB	2.61	0.48
52:DW:69:SER:H	52:DW:72:ALA:CB	2.17	0.48
63:Dh:11:UNK:O	63:Dh:13:UNK:N	2.46	0.48
1:A1:477:A:C2	1:A1:512:A:N1	2.81	0.48
1:A1:526:A:N3	1:A1:526:A:C2'	2.68	0.48
1:A1:568:G:H4'	17:AP:90:ASP:HA	1.96	0.48
1:A1:605:A:N7	1:A1:606:A:C5	2.82	0.48
1:A1:723:G:N1	1:A1:724:C:C4	2.82	0.48
1:A1:795:U:C5	1:A1:796:A:C4	3.02	0.48
1:A1:863:A:C2'	1:A1:865:A:H8	2.27	0.48
1:A1:933:A:N6	1:A1:935:U:H1'	2.29	0.48
1:A1:1036:A:H3'	1:A1:1037:C:H6	1.79	0.48
1:A1:1185:U:C1'	1:A1:1186:U:OP2	2.62	0.48
1:A1:1202:A:OP1	1:A1:1203:A:OP2	2.31	0.48
1:A1:1252:C:H2'	1:A1:1253:U:O5'	2.14	0.48
1:A1:1512:G:C4	1:A1:1513:G:C8	3.01	0.48
1:A1:1513:G:H1'	1:A1:1518:C:O2	2.14	0.48
1:A1:1581:C:H2'	1:A1:1582:U:H5'	1.95	0.48
1:A1:1603:U:H2'	1:A1:1604:U:C6	2.48	0.48
1:A1:1632:C:O2'	1:A1:1633:A:C8	2.50	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1719:A:O2'	1:A1:1720:G:C4	2.64	0.48
1:A1:1791:A:C5'	1:A1:1791:A:C8	2.95	0.48
5:AD:212:LYS:O	5:AD:215:ASP:N	2.47	0.48
7:AF:93:TYR:O	7:AF:94:ILE:CB	2.61	0.48
9:AH:14:PHE:O	9:AH:79:VAL:HA	2.14	0.48
12:AK:7:LYS:C	12:AK:9:VAL:N	2.72	0.48
24:Ac:3:UNK:C	24:Ac:99:UNK:N	2.76	0.48
29:B1:14:U:H3'	29:B1:15:C:H5"	1.96	0.48
29:B1:34:A:C8	29:B1:51:A:N6	2.82	0.48
29:B1:38:U:H2'	29:B1:39:A:O4'	2.14	0.48
29:B1:63:A:C2	29:B1:64:G:C4	3.02	0.48
29:B1:211:A:H5'	29:B1:229:G:H1'	1.96	0.48
29:B1:401:U:H3'	29:B1:402:A:C5'	2.42	0.48
29:B1:420:G:H21	29:B1:2384:A:C2'	2.27	0.48
29:B1:577:C:C3'	29:B1:577:C:H6	2.26	0.48
29:B1:612:U:C2	29:B1:613:G:C5	3.02	0.48
29:B1:784:A:C2	29:B1:785:G:N7	2.82	0.48
29:B1:877:C:H2'	29:B1:878:G:C5'	2.44	0.48
29:B1:881:C:H2'	29:B1:881:C:O2	2.13	0.48
29:B1:1035:G:H2'	29:B1:1036:A:H5'	1.95	0.48
29:B1:1040:A:H8	29:B1:1040:A:O5'	1.97	0.48
29:B1:1140:G:C2	29:B1:1141:C:C6	3.02	0.48
29:B1:1148:G:C6	29:B1:1149:G:C5	3.02	0.48
29:B1:1228:C:C4	29:B1:1229:G:C5	3.02	0.48
29:B1:1449:A:C2	29:B1:2356:A:N3	2.82	0.48
29:B1:1659:U:N3	29:B1:1660:C:C4	2.82	0.48
29:B1:1672:U:O2	29:B1:1672:U:H2'	2.14	0.48
29:B1:1900:A:N3	29:B1:1906:G:N7	2.62	0.48
29:B1:2312:A:H1'	29:B1:2316:G:O4'	2.14	0.48
29:B1:2356:A:N1	29:B1:2357:A:C4	2.81	0.48
29:B1:2367:A:C6	29:B1:2381:G:C6	3.02	0.48
29:B1:2681:U:OP1	42:BK:52:TYR:CB	2.61	0.48
29:B1:2798:C:P	29:B1:2799:A:OP1	2.72	0.48
29:B1:2834:G:C6	29:B1:2855:U:C4	3.01	0.48
29:B1:2852:C:H5	29:B1:2853:A:C4	2.29	0.48
29:B1:2933:A:C6	29:B1:2934:A:N1	2.82	0.48
29:B1:2957:G:C6	29:B1:2976:A:C2	3.02	0.48
29:B1:2998:U:OP1	29:B1:2998:U:H6	1.96	0.48
29:B1:3099:C:O2'	29:B1:3100:U:O4'	2.31	0.48
30:B2:12:U:OP2	30:B2:68:C:O3'	2.32	0.48
30:B2:24:A:C4	30:B2:25:G:N7	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:37:G:N3	30:B2:45:A:N1	2.62	0.48
30:B2:46:A:N3	30:B2:46:A:C3'	2.61	0.48
30:B2:111:U:O2'	30:B2:112:G:OP1	2.28	0.48
31:B3:42:G:N3	31:B3:42:G:H2'	2.28	0.48
31:B3:106:C:C1'	31:B3:107:G:OP2	2.62	0.48
31:B3:131:A:N3	31:B3:132:G:C8	2.82	0.48
33:BB:53:GLY:C	33:BB:54:ARG:O	2.57	0.48
36:BE:102:GLY:O	36:BE:103:LEU:C	2.57	0.48
39:BH:168:ALA:C	39:BH:170:CYS:N	2.72	0.48
41:BJ:174:THR:C	41:BJ:176:LEU:CB	2.87	0.48
43:BN:84:LYS:O	43:BN:86:ALA:N	2.46	0.48
43:BN:93:LYS:O	43:BN:95:ALA:N	2.47	0.48
49:BT:115:LYS:C	49:BT:117:ALA:N	2.70	0.48
55:BZ:56:LEU:O	55:BZ:57:GLU:C	2.57	0.48
58:Bc:37:SER:O	58:Bc:38:ARG:CB	2.62	0.48
1:C1:45:U:C3'	1:C1:45:U:H6	2.26	0.48
1:C1:64:U:O2	1:C1:64:U:C2'	2.62	0.48
1:C1:98:U:O2	1:C1:98:U:C2'	2.59	0.48
1:C1:331:A:N3	1:C1:332:U:C6	2.81	0.48
1:C1:472:U:H4'	1:C1:770:A:O4'	2.13	0.48
1:C1:514:G:N7	1:C1:538:A:H2	2.12	0.48
1:C1:549:G:C2	1:C1:550:A:C8	3.02	0.48
1:C1:723:G:H2'	1:C1:724:C:C6	2.49	0.48
1:C1:815:G:H4'	1:C1:816:G:OP2	2.14	0.48
1:C1:824:G:C6	1:C1:850:A:C2	3.02	0.48
1:C1:824:G:O6	1:C1:850:A:N3	2.47	0.48
1:C1:1131:A:H3'	1:C1:1132:A:H8	1.78	0.48
1:C1:1358:G:C2	1:C1:1359:C:C4	3.02	0.48
1:C1:1540:G:C6	1:C1:1541:G:C5	3.02	0.48
1:C1:1546:G:H21	10:CI:16:SER:HA	1.79	0.48
1:C1:1583:A:C2	1:C1:1585:U:O4	2.67	0.48
1:C1:1603:U:O2	1:C1:1603:U:C2'	2.60	0.48
1:C1:1670:G:H21	1:C1:1732:A:N6	2.11	0.48
1:C1:1671:A:N3	1:C1:1731:A:C2	2.81	0.48
3:CB:126:ARG:O	3:CB:127:ALA:C	2.57	0.48
10:CI:115:TYR:O	10:CI:118:GLU:CB	2.61	0.48
12:CK:27:ASP:O	12:CK:29:GLN:N	2.47	0.48
17:CP:136:TRP:HA	17:CP:137:LYS:O	2.14	0.48
18:CQ:94:LYS:C	18:CQ:96:SER:N	2.70	0.48
21:CT:135:THR:C	21:CT:137:LYS:H	2.21	0.48
28:Ch:21:UNK:HA	28:Ch:24:UNK:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:89:A:C2	29:D1:90:C:C6	3.02	0.48
29:D1:212:G:C6	29:D1:222:A:C5	3.02	0.48
29:D1:323:A:H3'	29:D1:324:A:H8	1.79	0.48
29:D1:340:C:C2'	29:D1:341:G:C8	2.83	0.48
29:D1:511:G:H21	29:D1:579:G:N2	2.12	0.48
29:D1:533:A:O2'	29:D1:534:U:C2	2.54	0.48
29:D1:543:C:N4	29:D1:544:C:C2	2.82	0.48
29:D1:582:G:N1	29:D1:583:G:C8	2.82	0.48
29:D1:606:C:C4'	29:D1:606:C:C6	2.95	0.48
29:D1:760:G:N2	29:D1:761:A:C5	2.76	0.48
29:D1:901:G:C6	29:D1:902:G:N7	2.82	0.48
29:D1:944:C:H2'	29:D1:945:C:H6	1.79	0.48
29:D1:966:U:C2'	29:D1:967:A:C8	2.88	0.48
29:D1:1104:G:H2'	29:D1:1105:A:C5'	2.44	0.48
29:D1:1160:C:O2'	29:D1:1161:G:H5"	2.14	0.48
29:D1:1204:A:N6	29:D1:1300:G:H21	2.06	0.48
29:D1:1275:C:H2'	29:D1:1276:U:O4'	2.13	0.48
29:D1:1362:G:H2'	29:D1:1363:A:H8	1.76	0.48
29:D1:1393:A:H2'	29:D1:1394:A:H5"	1.95	0.48
29:D1:1583:A:H2'	29:D1:1584:U:O5'	2.13	0.48
29:D1:1703:U:O2'	29:D1:1743:G:C2	2.66	0.48
29:D1:1729:A:OP2	55:DZ:27:TYR:CB	2.62	0.48
29:D1:1920:U:H1'	29:D1:1933:A:C6	2.49	0.48
29:D1:2294:U:C2	29:D1:2296:A:OP2	2.67	0.48
29:D1:2316:G:C2	29:D1:2317:A:C5	3.02	0.48
29:D1:2373:A:N7	29:D1:2867:C:H1'	2.29	0.48
29:D1:2522:G:C6	29:D1:2587:U:C4	3.02	0.48
29:D1:2553:U:O2'	29:D1:2554:A:P	2.71	0.48
29:D1:2560:C:O5'	29:D1:2560:C:C6	2.59	0.48
29:D1:2813:A:C6	29:D1:2814:G:C5	3.02	0.48
29:D1:2850:G:OP1	29:D1:2850:G:C4'	2.49	0.48
29:D1:2931:C:O2	29:D1:2935:U:C4	2.67	0.48
29:D1:3038:U:HO2'	29:D1:3039:C:C4'	2.27	0.48
29:D1:3048:A:N6	29:D1:3090:U:H3'	2.26	0.48
29:D1:3122:A:C2'	29:D1:3123:A:C5'	2.77	0.48
29:D1:3135:U:O4	29:D1:3136:G:C6	2.67	0.48
29:D1:3170:A:N6	29:D1:3279:A:N6	2.62	0.48
29:D1:3219:G:H1'	29:D1:3257:C:H5'	1.96	0.48
29:D1:3274:A:C4'	29:D1:3275:U:OP2	2.62	0.48
29:D1:3281:U:O2	29:D1:3282:U:C2	2.67	0.48
29:D1:3345:G:H8	29:D1:3345:G:O5'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:112:G:P	74:D2:207:OHX:N2	2.87	0.48
31:D3:25:G:N1	31:D3:26:U:C2	2.82	0.48
31:D3:53:A:C4	31:D3:54:A:C8	3.02	0.48
31:D3:64:U:C2	31:D3:97:A:C2	3.02	0.48
31:D3:71:A:H1'	31:D3:72:A:H5'	1.96	0.48
31:D3:145:U:C4	31:D3:146:U:N3	2.82	0.48
32:DA:65:ILE:HA	32:DA:109:ALA:HB3	1.95	0.48
34:DC:62:ARG:O	34:DC:63:PRO:C	2.57	0.48
35:DD:251:THR:C	35:DD:254:ALA:HB3	2.39	0.48
36:DE:102:GLY:CA	36:DE:166:ALA:HB2	2.43	0.48
37:DF:149:ILE:CA	37:DF:150:LYS:CB	2.92	0.48
38:DG:228:SER:O	38:DG:230:GLY:N	2.47	0.48
39:DH:231:LYS:CB	39:DH:233:TRP:H	2.27	0.48
72:DL:46:ILE:C	72:DL:48:LYS:H	2.20	0.48
73:DM:47:GLY:C	73:DM:49:ALA:H	2.21	0.48
44:DO:86:ASN:O	44:DO:88:GLY:N	2.46	0.48
45:DP:194:LEU:O	45:DP:195:ALA:C	2.57	0.48
48:DS:127:SER:O	48:DS:129:GLY:N	2.46	0.48
48:DS:145:ALA:O	48:DS:146:LYS:C	2.57	0.48
57:Db:89:THR:CB	57:Db:90:LYS:O	2.62	0.48
1:A1:8:U:C4	1:A1:1140:G:O6	2.66	0.47
1:A1:65:A:H2	1:A1:84:A:N6	2.10	0.47
1:A1:68:A:H4'	1:A1:69:G:OP1	2.14	0.47
1:A1:103:A:C6	1:A1:360:A:C2	3.02	0.47
1:A1:172:C:H2'	1:A1:173:A:O4'	2.13	0.47
1:A1:223:U:H2'	1:A1:224:C:C6	2.49	0.47
1:A1:248:U:O2	1:A1:248:U:O4'	2.30	0.47
1:A1:316:A:C2	1:A1:349:U:O2	2.67	0.47
1:A1:386:G:H2'	1:A1:387:A:O5'	2.14	0.47
1:A1:403:G:H8	1:A1:403:G:O5'	1.96	0.47
1:A1:479:C:H2'	1:A1:480:G:N9	2.29	0.47
1:A1:545:A:N6	1:A1:593:U:O2'	2.39	0.47
1:A1:651:G:C4	1:A1:684:A:N6	2.81	0.47
1:A1:694:U:C5'	1:A1:695:U:C5	2.79	0.47
1:A1:725:U:H3'	1:A1:726:C:O4'	2.13	0.47
1:A1:847:A:C2'	1:A1:848:C:H5'	2.41	0.47
1:A1:861:U:H2'	1:A1:862:A:H5'	1.95	0.47
1:A1:863:A:N9	1:A1:865:A:C8	2.82	0.47
1:A1:887:A:C2	1:A1:888:U:C2	3.02	0.47
1:A1:929:A:N7	1:A1:930:A:N7	2.62	0.47
1:A1:1241:G:N3	1:A1:1243:G:H8	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1246:C:C4	1:A1:1247:U:C4	3.01	0.47
1:A1:1291:G:H21	1:A1:1324:G:H22	1.62	0.47
1:A1:1402:G:N3	1:A1:1403:C:C6	2.82	0.47
1:A1:1479:A:C3'	1:A1:1480:G:H5"	2.44	0.47
1:A1:1594:G:H2'	1:A1:1595:U:H5'	1.96	0.47
1:A1:1622:G:C5	1:A1:1623:C:C4	3.02	0.47
1:A1:1631:A:H1'	1:A1:1638:G:N2	2.29	0.47
5:AD:191:ALA:O	5:AD:195:ALA:N	2.38	0.47
16:AO:70:ASN:HA	16:AO:71:LYS:HA	1.45	0.47
29:B1:13:A:C2	29:B1:15:C:H2'	2.49	0.47
29:B1:13:A:H2'	29:B1:13:A:N3	2.28	0.47
29:B1:69:C:C4	29:B1:70:A:H8	2.31	0.47
29:B1:77:A:C2	29:B1:78:U:N1	2.81	0.47
29:B1:102:C:O4'	29:B1:103:G:OP1	2.32	0.47
29:B1:109:A:H1'	29:B1:110:G:H1'	1.96	0.47
29:B1:174:C:O5'	29:B1:174:C:H6	1.96	0.47
29:B1:317:A:C2'	29:B1:318:A:O5'	2.62	0.47
29:B1:381:U:H3	29:B1:387:A:N6	2.12	0.47
29:B1:421:G:N1	29:B1:2365:C:C2	2.82	0.47
29:B1:425:G:C5	29:B1:635:G:C2	3.01	0.47
29:B1:556:U:C3'	29:B1:557:A:O4'	2.63	0.47
29:B1:563:U:C3'	29:B1:564:G:C5'	2.72	0.47
29:B1:726:G:C2	29:B1:727:G:C5	3.02	0.47
29:B1:776:U:C4'	29:B1:777:U:H5"	2.44	0.47
29:B1:881:C:C2	29:B1:1850:A:C8	3.02	0.47
29:B1:941:G:O4'	29:B1:1435:A:H1'	2.14	0.47
29:B1:1063:G:O4'	29:B1:1063:G:P	2.72	0.47
29:B1:1075:A:H2	69:Bp:245:UNK:C	2.23	0.47
29:B1:1105:A:C4	29:B1:1106:G:C8	3.02	0.47
29:B1:1228:C:N4	29:B1:1229:G:C6	2.82	0.47
29:B1:1253:U:H4'	29:B1:1254:C:H5	1.79	0.47
29:B1:1380:G:N3	29:B1:1380:G:C2'	2.74	0.47
29:B1:1395:G:C5	29:B1:1396:C:C5	3.01	0.47
29:B1:1470:U:H2'	29:B1:1471:U:C6	2.49	0.47
29:B1:1504:A:C5	29:B1:1505:C:H5	2.29	0.47
29:B1:1595:U:C2	29:B1:1596:C:C5	3.01	0.47
29:B1:1634:G:N1	29:B1:1640:G:O6	2.47	0.47
29:B1:1689:U:C4	29:B1:1690:C:C4	3.02	0.47
29:B1:1845:G:N2	29:B1:1849:C:C2	2.82	0.47
29:B1:2191:U:O4	29:B1:2192:C:N4	2.46	0.47
29:B1:2421:U:H2'	29:B1:2422:C:O5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2592:G:H4'	29:B1:2594:C:C2	2.49	0.47
29:B1:2787:G:H2'	29:B1:2788:C:H6	1.79	0.47
29:B1:2880:U:O2'	29:B1:2881:C:H5'	2.14	0.47
29:B1:3111:U:O2'	29:B1:3112:G:H5'	2.14	0.47
29:B1:3115:C:O2	29:B1:3115:C:O4'	2.32	0.47
29:B1:3213:A:O2'	29:B1:3214:U:C6	2.67	0.47
29:B1:3296:A:C6	29:B1:3297:U:C5	3.02	0.47
29:B1:3299:A:O5'	29:B1:3299:A:C2'	2.61	0.47
29:B1:3327:G:N7	29:B1:3328:G:O6	2.47	0.47
29:B1:3348:G:C6	29:B1:3349:C:C2	3.02	0.47
29:B1:3359:A:H2'	29:B1:3360:C:C4'	2.44	0.47
29:B1:3387:U:C4	29:B1:3388:C:N4	2.82	0.47
30:B2:43:U:C4	30:B2:44:C:C5	3.02	0.47
30:B2:54:U:H4'	30:B2:55:A:O5'	2.14	0.47
30:B2:71:G:C6	30:B2:108:A:N1	2.82	0.47
31:B3:27:U:C2	31:B3:28:C:C6	3.02	0.47
31:B3:53:A:H2'	31:B3:54:A:C8	2.48	0.47
31:B3:74:U:OP2	31:B3:76:C:C4	2.67	0.47
31:B3:88:A:C8	31:B3:89:A:N1	2.82	0.47
31:B3:125:U:C4	74:B3:206:OHX:N2	2.81	0.47
34:BC:95:THR:CB	34:BC:97:ARG:H	2.27	0.47
34:BC:327:CYS:O	34:BC:328:ILE:C	2.57	0.47
37:BF:145:LEU:O	37:BF:149:ILE:CB	2.62	0.47
38:BG:47:ARG:O	38:BG:49:ALA:O	2.31	0.47
41:BJ:33:ILE:O	41:BJ:34:TYR:CB	2.61	0.47
44:BO:82:GLY:HA2	44:BO:87:GLN:H	1.78	0.47
44:BO:137:PRO:C	44:BO:139:HIS:N	2.72	0.47
46:BQ:47:TYR:O	46:BQ:50:GLN:N	2.47	0.47
47:BR:149:ALA:HB3	47:BR:150:VAL:CA	2.44	0.47
53:BX:23:PRO:O	53:BX:24:SER:C	2.57	0.47
55:BZ:82:GLY:O	55:BZ:84:LEU:N	2.47	0.47
65:Bk:16:UNK:O	65:Bk:19:UNK:N	2.47	0.47
71:Br:-1:UNK:O	71:Br:3:UNK:N	2.47	0.47
1:C1:74:U:O2'	1:C1:75:U:P	2.72	0.47
1:C1:110:U:C3'	1:C1:111:U:H5"	2.41	0.47
1:C1:114:C:N4	1:C1:248:U:C4	2.81	0.47
1:C1:121:U:H2'	1:C1:122:U:O5'	2.14	0.47
1:C1:168:A:C5	1:C1:169:A:N6	2.81	0.47
1:C1:250:C:N4	1:C1:251:A:N6	2.62	0.47
1:C1:256:A:H5"	1:C1:257:A:OP2	2.14	0.47
1:C1:355:G:N2	1:C1:356:G:H1'	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:404:G:N3	1:C1:405:C:C6	2.82	0.47
1:C1:587:C:H2'	1:C1:588:U:H6	1.78	0.47
1:C1:652:G:H5'	1:C1:653:C:OP2	2.13	0.47
1:C1:776:G:N1	1:C1:785:U:N3	2.62	0.47
1:C1:1023:A:H8	74:C1:1961:OHX:N6	2.12	0.47
1:C1:1028:C:H1'	1:C1:1029:U:H3'	1.95	0.47
1:C1:1071:U:H5'	1:C1:1072:C:OP2	2.14	0.47
1:C1:1096:C:O2	1:C1:1096:C:H2'	2.12	0.47
1:C1:1097:U:O2'	1:C1:1097:U:O2	2.23	0.47
1:C1:1227:A:H3'	1:C1:1229:G:OP2	2.14	0.47
1:C1:1391:A:C3'	1:C1:1392:U:H5"	2.44	0.47
1:C1:1504:G:H2'	1:C1:1505:A:O4'	2.14	0.47
1:C1:1590:G:C4	1:C1:1591:C:C5	3.02	0.47
1:C1:1720:G:C2'	1:C1:1721:A:C8	2.95	0.47
3:CB:145:GLY:O	3:CB:147:ASN:N	2.46	0.47
5:CD:88:PRO:O	5:CD:89:ILE:CB	2.62	0.47
5:CD:111:VAL:O	5:CD:112:ARG:C	2.56	0.47
6:CE:26:ALA:O	6:CE:28:LEU:N	2.47	0.47
9:CH:96:PRO:O	9:CH:97:GLY:C	2.55	0.47
17:CP:46:SER:C	17:CP:48:HIS:N	2.70	0.47
19:CR:38:ARG:O	19:CR:39:THR:CB	2.61	0.47
21:CT:39:ASP:O	21:CT:40:LYS:CB	2.61	0.47
21:CT:282:SER:C	21:CT:284:ALA:H	2.20	0.47
24:Cc:17:UNK:O	24:Cc:18:UNK:C	2.62	0.47
25:Cd:85:UNK:O	25:Cd:86:UNK:C	2.62	0.47
29:D1:33:G:N2	29:D1:50:U:C5	2.81	0.47
29:D1:61:A:C2	29:D1:62:A:H1'	2.49	0.47
29:D1:77:A:H2'	29:D1:78:U:O5'	2.13	0.47
29:D1:108:A:O2'	29:D1:109:A:H5"	2.14	0.47
29:D1:114:A:C2	29:D1:267:G:C2	3.02	0.47
29:D1:280:U:C5	29:D1:282:G:OP2	2.67	0.47
29:D1:281:G:N1	29:D1:282:G:O6	2.46	0.47
29:D1:284:A:N3	29:D1:284:A:C2'	2.77	0.47
29:D1:347:G:N2	29:D1:353:G:C4	2.81	0.47
29:D1:416:A:N3	29:D1:417:A:C8	2.82	0.47
29:D1:552:G:C2	29:D1:553:U:C2	3.02	0.47
29:D1:580:C:C4	29:D1:581:U:O4	2.67	0.47
29:D1:603:A:H2'	29:D1:604:G:O4'	2.14	0.47
29:D1:636:C:C5	29:D1:2378:C:C1'	2.91	0.47
29:D1:636:C:H5	29:D1:2378:C:H1'	1.77	0.47
29:D1:648:C:O2	29:D1:648:C:O4'	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:955:U:O2'	29:D1:2727:A:N6	2.46	0.47
29:D1:1067:U:H5"	29:D1:1068:C:OP2	2.14	0.47
29:D1:1209:G:N7	29:D1:1210:U:C4	2.82	0.47
29:D1:1266:G:N1	29:D1:1276:U:C2	2.81	0.47
29:D1:1453:A:C1'	29:D1:1850:A:N1	2.78	0.47
29:D1:1468:A:C6	29:D1:1469:C:N4	2.82	0.47
29:D1:1468:A:C2'	29:D1:1469:C:O5'	2.62	0.47
29:D1:1483:G:N7	29:D1:1485:G:C4	2.82	0.47
29:D1:1495:U:O3'	29:D1:1514:G:C5'	2.62	0.47
29:D1:1560:G:C6	29:D1:1561:G:C6	3.01	0.47
29:D1:1654:A:N3	29:D1:1655:G:H1'	2.29	0.47
29:D1:2205:U:C2'	29:D1:2206:G:H5'	2.37	0.47
29:D1:2218:G:C5	29:D1:2228:A:C2	3.02	0.47
29:D1:2255:A:C2	29:D1:2258:U:OP2	2.67	0.47
29:D1:2308:C:C6	29:D1:2309:A:C8	3.02	0.47
29:D1:2317:A:C2	29:D1:2318:U:N1	2.82	0.47
29:D1:2514:U:O2'	29:D1:2515:A:H8	1.97	0.47
29:D1:2700:G:C6	29:D1:2701:U:C4	3.02	0.47
29:D1:2856:G:C2	29:D1:2857:C:C4	3.01	0.47
29:D1:2857:C:H2'	29:D1:2858:U:O4'	2.14	0.47
29:D1:2960:C:H3'	29:D1:2961:G:H8	1.78	0.47
29:D1:3034:C:C2'	29:D1:3035:A:H5'	2.43	0.47
29:D1:3102:G:C8	29:D1:3102:G:C4'	2.96	0.47
29:D1:3213:A:C8	29:D1:3213:A:C3'	2.97	0.47
29:D1:3228:C:N3	29:D1:3229:G:O6	2.47	0.47
29:D1:3348:G:C2	29:D1:3349:C:H1'	2.49	0.47
30:D2:38:U:C6	30:D2:41:G:OP2	2.67	0.47
30:D2:52:G:C2	30:D2:53:U:C2	3.01	0.47
31:D3:8:C:H6	31:D3:8:C:H3'	1.79	0.47
31:D3:48:A:C2	31:D3:51:G:O6	2.67	0.47
31:D3:111:A:H5"	31:D3:111:A:C8	2.48	0.47
34:DC:49:TYR:O	34:DC:51:ALA:N	2.47	0.47
39:DH:228:GLU:C	39:DH:230:LYS:N	2.72	0.47
40:DI:48:VAL:C	40:DI:50:ASN:H	2.22	0.47
40:DI:171:ASP:O	40:DI:172:ILE:O	2.32	0.47
41:DJ:215:GLU:C	41:DJ:217:PHE:N	2.70	0.47
73:DM:67:LEU:O	73:DM:68:SER:C	2.56	0.47
57:Db:60:ASN:O	57:Db:62:LYS:N	2.47	0.47
58:Dc:63:ARG:O	58:Dc:64:GLU:C	2.55	0.47
60:De:6:SER:O	60:De:9:ILE:N	2.47	0.47
61:Df:11:TYR:O	61:Df:20:HIS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:32:U:C2	1:A1:468:A:N6	2.81	0.47
1:A1:110:U:O2'	1:A1:797:G:H1'	2.14	0.47
1:A1:116:U:C2	1:A1:117:U:C5	3.02	0.47
1:A1:133:U:H1'	1:A1:134:U:P	2.53	0.47
1:A1:152:U:C2	1:A1:163:G:N2	2.82	0.47
1:A1:380:U:O2'	1:A1:381:C:H6	1.96	0.47
1:A1:410:A:C6	1:A1:411:C:C4	3.02	0.47
1:A1:436:A:H5"	1:A1:437:A:P	2.54	0.47
1:A1:446:A:N6	1:A1:461:G:H21	2.12	0.47
1:A1:450:U:O2	1:A1:450:U:C2'	2.62	0.47
1:A1:450:U:N3	1:A1:451:A:N6	2.63	0.47
1:A1:478:A:N1	1:A1:510:G:C2	2.82	0.47
1:A1:549:G:N1	1:A1:550:A:C5	2.81	0.47
1:A1:603:U:H2'	1:A1:604:A:C8	2.48	0.47
1:A1:612:U:H5'	1:A1:613:G:C3'	2.41	0.47
1:A1:666:U:C2'	1:A1:666:U:O2	2.61	0.47
1:A1:708:C:C2	1:A1:731:C:C2	3.02	0.47
1:A1:783:G:H2'	1:A1:784:C:H6	1.78	0.47
1:A1:893:U:H2'	1:A1:893:U:O2	2.12	0.47
1:A1:1087:A:C6	1:A1:1088:A:C6	3.02	0.47
1:A1:1104:U:C5	1:A1:1105:C:C6	3.02	0.47
1:A1:1224:A:C6	1:A1:1225:U:O4	2.67	0.47
1:A1:1232:U:H2'	1:A1:1233:G:O4'	2.14	0.47
1:A1:1537:C:O2'	1:A1:1540:G:O6	2.29	0.47
1:A1:1559:A:O2'	1:A1:1560:U:C6	2.66	0.47
1:A1:1746:A:H3'	1:A1:1747:G:C8	2.46	0.47
1:A1:1786:G:C4	1:A1:1787:C:C5	3.02	0.47
2:AA:51:GLY:O	2:AA:54:TRP:CB	2.62	0.47
3:AB:154:LEU:CB	3:AB:169:LEU:C	2.87	0.47
3:AB:165:VAL:CB	3:AB:166:THR:CB	2.92	0.47
4:AC:56:GLN:C	4:AC:58:VAL:N	2.69	0.47
5:AD:65:ARG:O	5:AD:66:GLN:CB	2.62	0.47
6:AE:117:GLY:HA3	6:AE:179:ARG:CB	2.44	0.47
8:AG:93:LYS:O	8:AG:94:LYS:C	2.57	0.47
8:AG:126:ALA:O	8:AG:127:ARG:C	2.57	0.47
10:AI:19:GLY:C	10:AI:21:ASP:N	2.73	0.47
10:AI:78:THR:O	10:AI:79:HIS:C	2.57	0.47
13:AL:134:ARG:O	13:AL:135:GLY:C	2.58	0.47
21:AT:27:ALA:O	21:AT:28:GLY:O	2.32	0.47
21:AT:207:ASP:C	21:AT:209:THR:H	2.22	0.47
25:Ad:94:UNK:O	25:Ad:96:UNK:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:11:A:C2	31:B3:148:G:C2	3.02	0.47
29:B1:221:A:C5	29:B1:224:C:N4	2.82	0.47
29:B1:278:U:C4	29:B1:279:U:C5	3.03	0.47
29:B1:361:A:N1	29:B1:927:C:O2'	2.38	0.47
29:B1:383:G:C2'	29:B1:385:A:O5'	2.40	0.47
29:B1:572:A:C8	29:B1:573:C:C5	3.02	0.47
29:B1:822:G:C5	29:B1:823:C:C5	3.02	0.47
29:B1:926:A:H2'	29:B1:927:C:H6	1.79	0.47
29:B1:983:A:N1	29:B1:985:U:O4	2.46	0.47
29:B1:1054:A:H2	30:B2:80:G:H21	1.62	0.47
29:B1:1168:U:O4	29:B1:1330:A:N7	2.47	0.47
29:B1:1174:G:C4	29:B1:1175:C:C5	3.02	0.47
29:B1:1583:A:H2'	29:B1:1584:U:O4'	2.14	0.47
29:B1:1693:C:H5"	29:B1:1694:U:H5'	1.96	0.47
29:B1:1718:G:H2'	29:B1:1719:G:H5'	1.96	0.47
29:B1:1778:G:O3'	29:B1:1779:C:O2	2.32	0.47
29:B1:1830:G:C4	29:B1:1831:U:C5	3.01	0.47
29:B1:1916:U:H2'	29:B1:1917:C:H6	1.76	0.47
29:B1:2131:A:H2'	29:B1:2132:C:C5'	2.41	0.47
29:B1:2152:A:C1'	29:B1:2243:A:C2	2.97	0.47
29:B1:2261:G:N2	29:B1:2263:C:C2	2.82	0.47
29:B1:2295:A:C6	29:B1:2296:A:C6	3.03	0.47
29:B1:2383:C:C2'	29:B1:2384:A:H8	2.27	0.47
29:B1:2386:A:H2'	29:B1:2387:A:C5'	2.43	0.47
29:B1:2640:A:N9	29:B1:2641:U:C5	2.81	0.47
29:B1:2658:G:C4	29:B1:2659:G:C8	3.01	0.47
29:B1:2847:A:N6	29:B1:2898:G:C2	2.78	0.47
29:B1:2888:U:C4	29:B1:2910:A:C6	3.01	0.47
29:B1:2931:C:C2	29:B1:2932:U:H6	2.31	0.47
29:B1:2987:A:H2'	29:B1:2988:C:O4'	2.14	0.47
29:B1:3153:U:H5"	29:B1:3293:U:C6	2.50	0.47
29:B1:3255:U:H2'	29:B1:3256:G:H8	1.78	0.47
29:B1:3274:A:H2'	29:B1:3274:A:N3	2.29	0.47
29:B1:3317:U:H3	34:BC:123:TYR:CA	2.22	0.47
29:B1:3328:G:N2	29:B1:3375:A:H62	2.12	0.47
31:B3:53:A:C4	31:B3:54:A:C8	3.02	0.47
31:B3:74:U:OP1	31:B3:76:C:C4	2.67	0.47
31:B3:75:G:OP2	31:B3:76:C:OP1	2.32	0.47
31:B3:95:G:H5'	59:Bd:72:ARG:HA	1.96	0.47
31:B3:106:C:H4'	31:B3:107:G:C5'	2.44	0.47
31:B3:129:C:H2'	31:B3:130:C:C5	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:92:TYR:O	34:BC:93:VAL:CB	2.62	0.47
34:BC:109:HIS:O	34:BC:110:LEU:CB	2.62	0.47
36:BE:243:ALA:HB1	36:BE:247:ILE:CB	2.44	0.47
36:BE:246:ALA:O	36:BE:249:ALA:HB2	2.14	0.47
37:BF:2:SER:C	38:BG:79:ALA:HB3	2.39	0.47
38:BG:43:ILE:C	38:BG:45:LEU:H	2.22	0.47
40:BI:44:THR:C	40:BI:45:PHE:O	2.54	0.47
48:BS:37:SER:C	48:BS:39:ASN:N	2.69	0.47
48:BS:93:VAL:O	48:BS:94:VAL:C	2.57	0.47
54:BY:134:ALA:O	54:BY:137:LYS:N	2.38	0.47
57:Bb:19:ARG:O	57:Bb:20:HIS:O	2.33	0.47
57:Bb:97:ALA:HB3	57:Bb:100:ILE:H	1.79	0.47
61:Bf:40:LYS:O	61:Bf:41:ARG:C	2.57	0.47
1:C1:8:U:H5	1:C1:1140:G:O6	1.94	0.47
1:C1:133:U:H1'	1:C1:134:U:P	2.53	0.47
1:C1:206:A:H2'	1:C1:207:U:O4'	2.13	0.47
1:C1:332:U:C5'	1:C1:333:A:OP2	2.62	0.47
1:C1:374:U:C4'	1:C1:374:U:OP1	2.63	0.47
1:C1:425:A:C2'	1:C1:426:G:OP2	2.62	0.47
1:C1:426:G:C2	1:C1:427:C:C6	3.02	0.47
1:C1:446:A:C6	1:C1:447:U:C5	3.02	0.47
1:C1:651:G:C6	74:C1:1970:OHX:N6	2.82	0.47
1:C1:699:U:C4	1:C1:700:C:C5	3.02	0.47
1:C1:721:U:C4'	1:C1:722:G:OP1	2.62	0.47
1:C1:814:A:C6	1:C1:858:G:N3	2.82	0.47
1:C1:825:U:C6	1:C1:826:U:C2	3.03	0.47
1:C1:832:U:H2'	1:C1:832:U:O2	2.13	0.47
1:C1:837:G:C4	1:C1:838:G:C8	3.02	0.47
1:C1:850:A:C6	1:C1:851:U:C4	3.01	0.47
1:C1:898:A:C2	1:C1:915:A:N6	2.82	0.47
1:C1:1002:G:C6	1:C1:1003:A:N1	2.81	0.47
1:C1:1053:G:N2	1:C1:1067:C:H1'	2.28	0.47
1:C1:1164:G:O2'	1:C1:1165:G:H5'	2.14	0.47
1:C1:1227:A:C8	1:C1:1229:G:OP2	2.68	0.47
1:C1:1251:U:C2	1:C1:1252:C:C6	3.03	0.47
1:C1:1355:C:H2'	1:C1:1356:U:H6	1.79	0.47
1:C1:1417:A:H2'	1:C1:1417:A:N3	2.28	0.47
1:C1:1448:G:O2'	1:C1:1449:U:H5'	2.14	0.47
1:C1:1513:G:C2'	1:C1:1514:U:OP1	2.62	0.47
1:C1:1584:G:C2	11:CJ:125:GLU:N	2.77	0.47
1:C1:1612:U:O4	1:C1:1613:U:H6	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1644:C:O2'	29:D1:2262:A:N7	2.46	0.47
1:C1:1723:U:C2	1:C1:1724:U:C6	3.02	0.47
1:C1:1753:A:C6	1:C1:1754:A:N6	2.79	0.47
5:CD:131:GLN:O	5:CD:135:ASP:CB	2.62	0.47
15:CN:116:VAL:O	15:CN:117:VAL:CB	2.62	0.47
29:D1:131:C:C4	29:D1:132:C:C6	3.02	0.47
29:D1:178:U:H1'	29:D1:241:G:C6	2.49	0.47
29:D1:185:C:C2	29:D1:232:G:N1	2.82	0.47
29:D1:361:A:H2'	29:D1:362:U:O4'	2.14	0.47
29:D1:382:U:C2'	29:D1:383:G:C4'	2.84	0.47
29:D1:393:U:N3	29:D1:394:G:C5	2.71	0.47
29:D1:423:A:C2	29:D1:424:G:N3	2.82	0.47
29:D1:617:G:H2'	29:D1:618:C:O5'	2.14	0.47
29:D1:642:U:H2'	29:D1:644:G:N7	2.29	0.47
29:D1:750:G:C2'	29:D1:751:A:H8	2.18	0.47
29:D1:847:A:C2	29:D1:848:A:C5	3.02	0.47
29:D1:849:C:C2'	29:D1:850:U:H5'	2.44	0.47
29:D1:898:U:H2'	29:D1:899:U:O4'	2.14	0.47
29:D1:1021:G:C5	29:D1:1022:U:C5	3.02	0.47
29:D1:1152:G:O2'	29:D1:1153:A:P	2.71	0.47
29:D1:1394:A:C8	29:D1:1394:A:C3'	2.96	0.47
29:D1:1564:U:H2'	29:D1:1565:G:O4'	2.14	0.47
29:D1:1859:A:H2'	29:D1:1859:A:N3	2.30	0.47
29:D1:1908:A:C8	29:D1:1909:A:C8	3.02	0.47
29:D1:2156:C:H2'	29:D1:2178:A:H61	1.78	0.47
29:D1:2229:A:H2'	29:D1:2230:C:N1	2.29	0.47
29:D1:2254:U:C6	29:D1:2254:U:OP2	2.67	0.47
29:D1:2285:C:H5	29:D1:2286:U:N1	2.09	0.47
29:D1:2397:A:H61	29:D1:2869:U:H1'	1.79	0.47
29:D1:2419:A:N7	29:D1:2606:G:O6	2.47	0.47
29:D1:2536:A:C2	29:D1:2537:U:C2	3.02	0.47
29:D1:2838:A:C2	29:D1:2851:A:N9	2.82	0.47
29:D1:2883:U:O2'	29:D1:2884:C:O5'	2.27	0.47
29:D1:2897:A:H2	29:D1:2905:U:O2	1.97	0.47
29:D1:2900:A:O2'	29:D1:2901:G:H5'	2.14	0.47
29:D1:3262:U:H6	29:D1:3262:U:P	2.34	0.47
29:D1:3278:C:C2	29:D1:3279:A:N7	2.82	0.47
29:D1:3315:G:H4'	29:D1:3319:U:O3'	2.14	0.47
29:D1:3327:G:N2	29:D1:3379:C:N1	2.61	0.47
29:D1:3359:A:H2'	29:D1:3360:C:C4'	2.45	0.47
30:D2:22:A:N1	36:DE:277:LEU:CB	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:84:A:C6	30:D2:97:A:C6	3.02	0.47
31:D3:70:G:P	31:D3:71:A:OP2	2.72	0.47
31:D3:81:U:C4	31:D3:82:U:O4'	2.67	0.47
34:DC:127:LYS:CB	34:DC:128:LYS:HA	2.44	0.47
34:DC:159:ARG:HA	34:DC:181:ILE:O	2.14	0.47
35:DD:203:ARG:O	35:DD:204:GLY:O	2.32	0.47
37:DF:20:LYS:CB	37:DF:113:LYS:H	2.27	0.47
38:DG:187:GLU:O	38:DG:190:THR:N	2.47	0.47
41:DJ:61:SER:HA	41:DJ:126:ALA:CB	2.44	0.47
41:DJ:184:LYS:C	41:DJ:186:GLU:N	2.58	0.47
44:DO:26:ARG:O	44:DO:29:GLU:N	2.48	0.47
45:DP:142:SER:O	45:DP:143:THR:C	2.55	0.47
49:DT:109:VAL:O	49:DT:113:ALA:HB3	2.14	0.47
62:Dg:57:CYS:CB	74:Dg:101:OHX:N4	2.76	0.47
65:Dk:9:UNK:O	65:Dk:13:UNK:N	2.47	0.47
1:A1:53:G:C6	1:A1:54:C:C5	3.02	0.47
1:A1:70:C:C4	1:A1:71:A:N6	2.82	0.47
1:A1:150:U:H5'	1:A1:151:G:P	2.54	0.47
1:A1:289:U:O2	1:A1:290:G:O4'	2.31	0.47
1:A1:575:C:H5'	1:A1:576:G:OP2	2.14	0.47
1:A1:632:U:H2'	1:A1:633:U:O5'	2.15	0.47
1:A1:964:U:OP2	1:A1:964:U:H2'	2.15	0.47
1:A1:1065:A:C3'	1:A1:1066:C:H6	2.27	0.47
1:A1:1099:U:H2'	1:A1:1099:U:O2	2.13	0.47
1:A1:1360:A:N3	1:A1:1360:A:H2'	2.30	0.47
1:A1:1499:G:C6	1:A1:1508:U:O2	2.62	0.47
1:A1:1612:U:C4	1:A1:1613:U:H6	2.32	0.47
2:AA:178:ALA:HB1	2:AA:182:LEU:CB	2.44	0.47
4:AC:105:MET:O	4:AC:108:LYS:N	2.35	0.47
5:AD:164:PRO:C	5:AD:166:ARG:N	2.72	0.47
15:AN:36:ASN:C	15:AN:38:SER:H	2.21	0.47
23:Ab:77:UNK:C	23:Ab:79:UNK:N	2.76	0.47
24:Ac:79:UNK:O	24:Ac:81:UNK:N	2.47	0.47
29:B1:71:A:H5'	29:B1:73:C:H42	1.78	0.47
29:B1:140:C:C2	29:B1:141:C:C5	3.02	0.47
29:B1:191:U:H2'	29:B1:192:C:H6	1.79	0.47
29:B1:296:A:N7	29:B1:297:G:C6	2.83	0.47
29:B1:305:U:O2'	29:B1:306:A:OP2	2.24	0.47
29:B1:366:A:N6	29:B1:367:A:C4	2.83	0.47
29:B1:379:C:H42	29:B1:390:G:H1	1.61	0.47
29:B1:420:G:N2	29:B1:2384:A:C4	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:439:C:H4'	29:B1:440:A:O5'	2.14	0.47
29:B1:544:C:OP2	29:B1:544:C:H3'	2.14	0.47
29:B1:593:C:H2'	29:B1:594:U:C4'	2.43	0.47
29:B1:606:C:C2	29:B1:607:A:C4	3.03	0.47
29:B1:650:C:C5'	29:B1:2872:A:OP2	2.62	0.47
29:B1:653:A:O4'	29:B1:2360:C:H2'	2.14	0.47
29:B1:722:G:C2	29:B1:748:U:O2	2.67	0.47
29:B1:761:A:N3	29:B1:761:A:H2'	2.30	0.47
29:B1:762:U:OP1	29:B1:763:G:P	2.72	0.47
29:B1:835:G:N3	29:B1:857:G:C2	2.82	0.47
29:B1:856:G:N1	29:B1:857:G:N2	2.62	0.47
29:B1:944:C:H2'	29:B1:945:C:C6	2.49	0.47
29:B1:957:C:O5'	29:B1:957:C:H6	1.97	0.47
29:B1:996:A:O2'	29:B1:997:A:H5'	2.14	0.47
29:B1:1063:G:O2'	29:B1:1064:A:OP2	2.32	0.47
29:B1:1080:A:C5	29:B1:1082:U:H5"	2.49	0.47
29:B1:1127:G:H22	29:B1:1132:C:N4	2.09	0.47
29:B1:1231:A:H4'	29:B1:1232:C:OP2	2.14	0.47
29:B1:1363:A:H2'	29:B1:1364:C:C6	2.49	0.47
29:B1:1466:G:C5	29:B1:1511:U:C4	3.02	0.47
29:B1:1661:G:OP1	29:B1:1661:G:C4'	2.53	0.47
29:B1:2096:A:OP2	29:B1:2097:U:OP2	2.33	0.47
29:B1:2199:G:C4	29:B1:2200:U:C5	3.03	0.47
29:B1:2233:A:OP2	74:B1:3599:OHX:N2	2.47	0.47
29:B1:2248:C:H4'	29:B1:2271:A:C2	2.49	0.47
29:B1:2400:G:O4'	29:B1:2401:A:OP1	2.32	0.47
29:B1:2416:U:H4'	29:B1:2967:A:O4'	2.14	0.47
29:B1:2655:U:H1'	29:B1:2656:A:C2	2.50	0.47
29:B1:2725:U:H3'	29:B1:2725:U:C6	2.47	0.47
29:B1:2858:U:C2'	29:B1:2859:U:C5	2.94	0.47
29:B1:2917:G:O2'	29:B1:2918:G:O5'	2.32	0.47
29:B1:3074:G:H2'	29:B1:3075:G:C8	2.48	0.47
29:B1:3080:G:C6	29:B1:3081:C:C4	3.02	0.47
29:B1:3126:C:C4	29:B1:3127:A:C8	3.02	0.47
29:B1:3298:C:N3	29:B1:3391:A:N1	2.63	0.47
30:B2:9:C:C4	30:B2:10:C:O2	2.67	0.47
31:B3:4:C:N4	31:B3:5:U:N3	2.62	0.47
31:B3:65:A:N6	31:B3:66:A:C6	2.83	0.47
31:B3:111:A:C1'	31:B3:112:U:OP1	2.62	0.47
34:BC:42:ALA:O	34:BC:43:LEU:O	2.32	0.47
36:BE:264:GLN:HA	36:BE:266:ALA:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:51:ARG:O	37:BF:52:VAL:CB	2.62	0.47
37:BF:134:ARG:C	37:BF:136:GLU:N	2.68	0.47
40:BI:187:ILE:HA	40:BI:188:THR:HA	1.48	0.47
45:BP:22:VAL:O	45:BP:23:VAL:C	2.57	0.47
49:BT:13:TYR:O	49:BT:16:GLN:CB	2.62	0.47
49:BT:65:TYR:O	49:BT:66:ASN:CB	2.62	0.47
51:BV:7:SER:C	51:BV:9:SER:N	2.72	0.47
52:BW:54:TYR:C	52:BW:56:ARG:H	2.23	0.47
54:BY:11:HIS:O	54:BY:12:ARG:O	2.32	0.47
1:C1:126:A:C6	1:C1:292:U:C2	3.02	0.47
1:C1:188:A:N9	1:C1:198:A:N6	2.62	0.47
1:C1:283:U:C3'	1:C1:284:G:C5'	2.89	0.47
1:C1:364:G:N2	1:C1:381:C:C1'	2.78	0.47
1:C1:378:A:C2'	1:C1:379:U:O5'	2.62	0.47
1:C1:386:G:H2'	1:C1:387:A:O5'	2.15	0.47
1:C1:394:C:C5	1:C1:395:U:C5	3.02	0.47
1:C1:514:G:N7	1:C1:538:A:C2	2.82	0.47
1:C1:555:A:H1'	1:C1:556:A:OP1	2.14	0.47
1:C1:578:U:OP1	1:C1:578:U:H4'	2.12	0.47
1:C1:611:U:C5	1:C1:612:U:C6	3.03	0.47
1:C1:621:A:H5"	1:C1:622:A:OP2	2.14	0.47
1:C1:778:G:N2	1:C1:783:G:C4	2.82	0.47
1:C1:828:U:C5	1:C1:829:A:C6	3.02	0.47
1:C1:837:G:C6	74:C1:1928:OHX:N1	2.82	0.47
1:C1:870:C:C2	1:C1:871:G:N7	2.82	0.47
1:C1:1002:G:C5	1:C1:1003:A:H2	2.31	0.47
1:C1:1196:A:N3	1:C1:1196:A:O4'	2.48	0.47
1:C1:1210:C:H2'	1:C1:1210:C:O2	2.14	0.47
1:C1:1305:U:H3'	1:C1:1306:C:O2	2.14	0.47
1:C1:1308:G:C5	1:C1:1309:C:C5	3.02	0.47
1:C1:1323:C:O3'	1:C1:1324:G:O4'	2.32	0.47
1:C1:1333:C:C2	1:C1:1419:G:C2	3.02	0.47
1:C1:1702:A:N6	1:C1:1703:C:H41	2.12	0.47
9:CH:20:TYR:HA	9:CH:85:ALA:H	1.80	0.47
15:CN:28:SER:CB	15:CN:112:VAL:HA	2.43	0.47
15:CN:32:LYS:O	15:CN:34:LEU:N	2.42	0.47
15:CN:36:ASN:C	15:CN:38:SER:H	2.22	0.47
18:CQ:91:PRO:O	18:CQ:99:ALA:HA	2.14	0.47
23:Cb:123:UNK:O	23:Cb:136:UNK:C	2.62	0.47
29:D1:99:A:O2'	29:D1:100:A:H5'	2.14	0.47
29:D1:157:A:O2'	29:D1:158:G:C8	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:332:C:H5"	29:D1:332:C:H6	1.78	0.47
29:D1:373:A:C6	29:D1:375:A:C6	3.01	0.47
29:D1:821:U:H2'	29:D1:822:G:H5'	1.95	0.47
29:D1:1032:C:H2'	29:D1:1033:U:C6	2.49	0.47
29:D1:1145:G:O3'	57:Db:46:PHE:HA	2.14	0.47
29:D1:1185:C:O5'	29:D1:1185:C:H6	1.96	0.47
29:D1:1232:C:C4	29:D1:1261:G:C4	3.01	0.47
29:D1:1265:U:C4	29:D1:1277:C:C2	3.02	0.47
29:D1:1284:C:N3	29:D1:1285:G:N7	2.63	0.47
29:D1:1335:C:N4	29:D1:1336:U:O4	2.47	0.47
29:D1:1502:C:N4	29:D1:1513:G:N7	2.61	0.47
29:D1:1658:G:C4	29:D1:1659:U:C5	3.02	0.47
29:D1:1661:G:C6	29:D1:1662:G:C6	3.02	0.47
29:D1:1678:G:C4	29:D1:1679:A:N7	2.83	0.47
29:D1:1691:U:C2	29:D1:1692:U:C5	3.03	0.47
29:D1:2165:G:N2	29:D1:2170:U:N3	2.61	0.47
29:D1:2224:A:H3'	29:D1:2225:U:H6	1.79	0.47
29:D1:2361:A:N7	29:D1:2362:C:C5	2.81	0.47
29:D1:2373:A:N3	29:D1:2824:G:O2'	2.47	0.47
29:D1:2423:U:C2	29:D1:2608:G:C2	3.02	0.47
29:D1:2514:U:O2'	29:D1:2515:A:C8	2.66	0.47
29:D1:2607:G:C2	29:D1:2608:G:C4	3.03	0.47
29:D1:2684:C:O2'	29:D1:2685:C:O5'	2.32	0.47
29:D1:2909:U:C5	29:D1:2910:A:C8	3.02	0.47
29:D1:2951:G:O2'	29:D1:2952:G:H5'	2.15	0.47
29:D1:3044:G:H2'	29:D1:3045:G:H5'	1.96	0.47
29:D1:3106:A:H8	29:D1:3106:A:O5'	1.96	0.47
29:D1:3202:G:H2'	29:D1:3203:U:C6	2.49	0.47
29:D1:3300:U:O2	29:D1:3300:U:C2'	2.63	0.47
29:D1:3371:G:C6	29:D1:3372:A:C4	3.02	0.47
30:D2:91:G:C2	30:D2:92:A:C4	3.01	0.47
30:D2:97:A:C2'	30:D2:98:C:C6	2.92	0.47
30:D2:110:G:C6	30:D2:111:U:N3	2.82	0.47
33:DB:184:ARG:O	33:DB:185:ALA:C	2.58	0.47
38:DG:143:THR:O	38:DG:147:LEU:CB	2.62	0.47
38:DG:161:VAL:O	38:DG:162:PRO:O	2.30	0.47
38:DG:199:ASN:C	38:DG:201:PHE:N	2.69	0.47
42:DK:94:ARG:HA	42:DK:95:ASN:HA	1.72	0.47
42:DK:156:LYS:C	42:DK:158:ASP:N	2.72	0.47
73:DM:26:PHE:HA	73:DM:190:VAL:HA	1.96	0.47
46:DQ:52:LEU:O	46:DQ:53:ASP:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:Da:56:ASN:C	56:Da:58:ALA:N	2.71	0.47
57:Db:34:LYS:O	57:Db:35:GLN:C	2.56	0.47
59:Dd:36:SER:C	74:Dd:101:OHX:N5	2.72	0.47
1:A1:109:G:H2'	1:A1:109:G:N3	2.28	0.47
1:A1:198:A:H1'	1:A1:199:G:P	2.54	0.47
1:A1:243:G:C5	1:A1:251:A:N6	2.80	0.47
1:A1:356:G:C6	1:A1:357:G:C8	3.02	0.47
1:A1:646:C:H2'	1:A1:647:G:C4'	2.45	0.47
1:A1:814:A:H2'	1:A1:816:G:H21	1.78	0.47
1:A1:826:U:H2'	1:A1:827:C:H6	1.78	0.47
1:A1:1099:U:O2'	1:A1:1100:G:H5'	2.13	0.47
1:A1:1112:G:P	1:A1:1113:A:H2'	2.54	0.47
1:A1:1151:A:C2'	1:A1:1152:A:H5'	2.43	0.47
1:A1:1186:U:C2'	1:A1:1187:U:H5'	2.44	0.47
1:A1:1241:G:N2	1:A1:1243:G:H3'	2.30	0.47
1:A1:1258:U:C2'	1:A1:1259:U:O4'	2.59	0.47
1:A1:1358:G:N1	1:A1:1359:C:N4	2.62	0.47
1:A1:1417:A:N3	1:A1:1417:A:H2'	2.28	0.47
1:A1:1433:G:O2'	1:A1:1434:U:H6	1.98	0.47
1:A1:1484:G:H5'	1:A1:1485:C:OP2	2.13	0.47
1:A1:1498:G:C6	1:A1:1510:U:N3	2.83	0.47
1:A1:1660:A:O2'	1:A1:1661:U:H5'	2.14	0.47
1:A1:1683:C:H4'	1:A1:1684:U:C4	2.49	0.47
3:AB:147:ASN:C	3:AB:149:GLY:N	2.72	0.47
3:AB:152:HIS:C	3:AB:154:LEU:N	2.71	0.47
4:AC:46:THR:CB	4:AC:84:ILE:HA	2.44	0.47
5:AD:117:THR:HA	5:AD:191:ALA:HB1	1.94	0.47
8:AG:117:LEU:C	8:AG:119:GLU:N	2.70	0.47
8:AG:127:ARG:C	8:AG:129:TYR:N	2.63	0.47
8:AG:138:ASN:HA	8:AG:142:GLU:H	1.79	0.47
9:AH:61:MET:C	9:AH:63:ALA:H	2.21	0.47
14:AM:62:ALA:O	14:AM:64:HIS:N	2.47	0.47
21:AT:27:ALA:O	21:AT:28:GLY:C	2.57	0.47
25:Ad:95:UNK:O	25:Ad:98:UNK:N	2.46	0.47
26:Ae:14:UNK:O	26:Ae:15:UNK:C	2.61	0.47
29:B1:79:U:H2'	29:B1:80:G:H8	1.79	0.47
29:B1:108:A:O2'	29:B1:109:A:H5"	2.15	0.47
29:B1:113:C:O2'	29:B1:114:A:H5'	2.13	0.47
29:B1:337:G:C2	31:B3:27:U:C2	3.02	0.47
29:B1:595:G:H2'	29:B1:596:C:O4'	2.14	0.47
29:B1:667:C:O2	29:B1:667:C:H2'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:960:U:O2	29:B1:960:U:O4'	2.33	0.47
29:B1:1004:U:N3	29:B1:1005:G:C5	2.82	0.47
29:B1:1013:G:H3'	29:B1:1014:U:O3'	2.15	0.47
29:B1:1078:U:C4	29:B1:1082:U:C4	3.02	0.47
29:B1:1108:U:C2	29:B1:1109:U:C6	3.03	0.47
29:B1:1139:G:C8	29:B1:1139:G:H5"	2.38	0.47
29:B1:1188:U:H3	29:B1:1317:A:N6	2.11	0.47
29:B1:1231:A:N6	29:B1:1276:U:C5	2.77	0.47
29:B1:1234:G:N1	29:B1:1255:C:C4	2.83	0.47
29:B1:1281:G:H8	29:B1:1281:G:OP2	1.95	0.47
29:B1:1334:U:OP1	38:BG:206:LYS:HA	2.15	0.47
29:B1:1452:A:C1'	29:B1:2347:U:H5"	2.37	0.47
29:B1:1455:U:O4'	29:B1:1455:U:P	2.72	0.47
29:B1:1908:A:H62	29:B1:1909:A:N6	2.13	0.47
29:B1:2295:A:N3	29:B1:2929:C:O2'	2.46	0.47
29:B1:2423:U:C2	29:B1:2608:G:C2	3.02	0.47
29:B1:2643:A:C6	29:B1:2645:G:H1'	2.49	0.47
29:B1:2730:G:N2	29:B1:2731:U:H1'	2.30	0.47
29:B1:2929:C:C4	29:B1:2930:A:C8	3.02	0.47
29:B1:2931:C:H2'	29:B1:2932:U:O4'	2.14	0.47
29:B1:2986:U:O2'	29:B1:2987:A:H5'	2.14	0.47
29:B1:3086:A:C8	29:B1:3087:A:N7	2.82	0.47
29:B1:3099:C:C2'	29:B1:3100:U:C6	2.97	0.47
29:B1:3228:C:C2'	29:B1:3229:G:C8	2.98	0.47
29:B1:3239:G:O2'	29:B1:3240:C:H5'	2.15	0.47
29:B1:3282:U:O2'	29:B1:3283:U:H5	1.97	0.47
29:B1:3289:G:C5	74:B1:3581:OHX:N3	2.83	0.47
29:B1:3291:G:O2'	29:B1:3292:A:O4'	2.32	0.47
30:B2:23:A:H8	30:B2:23:A:O5'	1.97	0.47
30:B2:75:G:H21	30:B2:105:C:H41	1.63	0.47
30:B2:91:G:C2	30:B2:92:A:C4	3.02	0.47
31:B3:7:U:C4	31:B3:8:C:N4	2.82	0.47
31:B3:40:A:O2'	31:B3:41:A:P	2.72	0.47
31:B3:145:U:O2'	31:B3:146:U:H5'	2.15	0.47
34:BC:257:PRO:CB	34:BC:258:ALA:C	2.87	0.47
40:BI:139:ASN:HA	40:BI:140:VAL:CB	2.44	0.47
41:BJ:57:LEU:HA	41:BJ:129:VAL:O	2.14	0.47
44:BO:85:THR:CB	44:BO:88:GLY:N	2.76	0.47
48:BS:119:LEU:O	48:BS:123:LEU:CB	2.62	0.47
60:Be:43:ASN:O	60:Be:45:ARG:N	2.47	0.47
1:C1:125:U:H6	1:C1:125:U:C5'	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:145:A:N6	1:C1:146:U:C4	2.82	0.47
1:C1:172:C:O2'	1:C1:173:A:C8	2.49	0.47
1:C1:224:C:O2'	1:C1:225:A:C8	2.68	0.47
1:C1:225:A:O2'	1:C1:226:A:P	2.72	0.47
1:C1:330:G:H8	1:C1:330:G:OP2	1.95	0.47
1:C1:410:A:N1	1:C1:411:C:C2	2.83	0.47
1:C1:590:C:O2'	1:C1:591:A:H5'	2.14	0.47
1:C1:605:A:H62	1:C1:606:A:N6	2.10	0.47
1:C1:770:A:H2'	1:C1:771:A:O4'	2.14	0.47
1:C1:774:A:C6	1:C1:775:G:H1'	2.49	0.47
1:C1:802:G:H5"	1:C1:803:A:OP2	2.14	0.47
1:C1:1021:C:N3	1:C1:1022:C:C2	2.82	0.47
1:C1:1032:G:C2	1:C1:1033:C:C4	3.03	0.47
1:C1:1045:C:O2'	1:C1:1046:G:P	2.71	0.47
1:C1:1066:C:C2	1:C1:1067:C:C6	3.03	0.47
1:C1:1099:U:O2	1:C1:1099:U:H2'	2.14	0.47
1:C1:1159:C:H5'	1:C1:1159:C:H6	1.79	0.47
1:C1:1180:C:C2	1:C1:1181:U:C6	3.02	0.47
1:C1:1334:U:H2'	1:C1:1335:U:C6	2.49	0.47
1:C1:1346:A:P	1:C1:1346:A:O4'	2.72	0.47
1:C1:1362:U:C3'	1:C1:1363:U:O4'	2.48	0.47
1:C1:1419:G:C6	1:C1:1420:C:O2	2.67	0.47
1:C1:1431:C:C3'	1:C1:1432:U:C5'	2.92	0.47
1:C1:1507:G:H2'	1:C1:1508:U:O4'	2.14	0.47
1:C1:1550:A:N1	1:C1:1562:G:C6	2.83	0.47
1:C1:1613:U:N3	1:C1:1614:A:H8	2.06	0.47
6:CE:103:ASP:O	6:CE:104:PHE:C	2.56	0.47
11:CJ:18:ALA:CB	11:CJ:84:ALA:HB2	2.44	0.47
16:CO:30:SER:O	16:CO:34:ILE:CB	2.62	0.47
23:Cb:48:UNK:C	23:Cb:50:UNK:N	2.72	0.47
29:D1:30:G:C6	29:D1:55:G:C6	3.03	0.47
29:D1:65:A:H2'	29:D1:111:C:C5	2.50	0.47
29:D1:73:C:P	29:D1:74:G:O5'	2.72	0.47
29:D1:136:G:OP2	29:D1:136:G:H8	1.97	0.47
29:D1:206:G:N2	29:D1:207:U:H1'	2.30	0.47
29:D1:416:A:N6	31:D3:7:U:H3	2.10	0.47
29:D1:595:G:C6	29:D1:596:C:H5	2.33	0.47
29:D1:636:C:O2'	29:D1:637:C:C5'	2.63	0.47
29:D1:662:U:H3	29:D1:801:A:H2	1.63	0.47
29:D1:705:A:C8	29:D1:715:A:N6	2.81	0.47
29:D1:774:G:C2	29:D1:775:A:C8	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:840:C:O2'	29:D1:841:A:H5'	2.14	0.47
29:D1:947:G:H2'	29:D1:948:C:C6	2.45	0.47
29:D1:1023:C:H3'	29:D1:1024:G:H5"	1.95	0.47
29:D1:1031:C:C4	29:D1:1032:C:C5	3.03	0.47
29:D1:1082:U:OP2	29:D1:1082:U:O3'	2.33	0.47
29:D1:1089:G:C2	29:D1:1090:G:C8	3.02	0.47
29:D1:1220:U:O4'	29:D1:1223:A:O4'	2.33	0.47
29:D1:1302:A:N9	29:D1:2887:A:N1	2.63	0.47
29:D1:1315:U:O2'	29:D1:1316:C:H5'	2.15	0.47
29:D1:1334:U:H5"	38:DG:206:LYS:C	2.39	0.47
29:D1:1347:U:H6	29:D1:1347:U:P	2.37	0.47
29:D1:1419:A:C6	29:D1:1420:C:C5	3.02	0.47
29:D1:1439:U:C2	29:D1:1440:G:N7	2.83	0.47
29:D1:1504:A:C5	29:D1:1505:C:H5	2.31	0.47
29:D1:1528:G:C4	29:D1:1529:A:N7	2.82	0.47
29:D1:1555:U:H5"	29:D1:1580:A:C2	2.49	0.47
29:D1:1689:U:C2'	29:D1:1690:C:H5'	2.45	0.47
29:D1:1849:C:H4'	29:D1:1850:A:OP2	2.14	0.47
29:D1:1881:A:C6	29:D1:1882:G:N7	2.82	0.47
29:D1:1909:A:N1	29:D1:1910:A:C2	2.82	0.47
29:D1:2152:A:O2'	29:D1:2153:U:H5'	2.14	0.47
29:D1:2198:A:C2	29:D1:2270:A:N7	2.83	0.47
29:D1:2240:G:C2'	29:D1:2241:U:O5'	2.62	0.47
29:D1:2257:C:O2	29:D1:2257:C:O4'	2.31	0.47
29:D1:2672:G:C8	29:D1:2672:G:H3'	2.49	0.47
29:D1:2805:G:O2'	29:D1:2806:U:C5'	2.62	0.47
29:D1:2876:C:N1	29:D1:2952:G:N2	2.63	0.47
29:D1:2984:C:N3	29:D1:2985:C:C5	2.82	0.47
29:D1:3057:U:C2'	29:D1:3058:U:H4'	2.44	0.47
29:D1:3201:C:N3	29:D1:3202:G:N7	2.62	0.47
29:D1:3282:U:O2'	29:D1:3283:U:H5	1.96	0.47
29:D1:3318:G:O2'	29:D1:3319:U:OP1	2.32	0.47
29:D1:3352:U:C2'	29:D1:3354:U:H4'	2.36	0.47
29:D1:3377:G:N9	74:D1:3452:OHX:N5	2.63	0.47
74:D1:3502:OHX:N6	54:DY:20:GLY:HA3	2.29	0.47
30:D2:64:A:N6	30:D2:111:U:C5	2.63	0.47
30:D2:91:G:N1	30:D2:92:A:C5	2.82	0.47
31:D3:3:A:H3'	31:D3:3:A:H8	1.78	0.47
31:D3:49:G:C8	58:Dc:40:SER:O	2.67	0.47
34:DC:192:VAL:O	34:DC:195:ALA:CB	2.61	0.47
36:DE:225:GLY:N	36:DE:233:ALA:HB3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DE:241:THR:O	36:DE:243:ALA:C	2.57	0.47
37:DF:27:PRO:O	37:DF:29:LYS:N	2.48	0.47
38:DG:138:TYR:O	38:DG:233:GLU:O	2.33	0.47
40:DI:161:LEU:C	40:DI:163:GLN:N	2.67	0.47
73:DM:34:SER:O	73:DM:35:SER:C	2.56	0.47
43:DN:119:GLN:O	43:DN:120:VAL:C	2.57	0.47
44:DO:49:ARG:O	44:DO:50:ARG:C	2.56	0.47
44:DO:83:LYS:H	44:DO:85:THR:CA	2.26	0.47
50:DU:23:MET:O	50:DU:24:ASN:C	2.58	0.47
52:DW:54:TYR:C	52:DW:56:ARG:H	2.23	0.47
52:DW:132:ALA:O	52:DW:133:LEU:C	2.57	0.47
54:DY:111:LYS:O	54:DY:112:ILE:C	2.58	0.47
61:Df:23:HIS:HA	61:Df:74:CYS:HA	1.97	0.47
1:A1:50:C:H2'	1:A1:424:C:H41	1.79	0.47
1:A1:74:U:O2'	1:A1:75:U:P	2.72	0.47
1:A1:75:U:O2'	1:A1:76:A:H4'	2.14	0.47
1:A1:125:U:H6	1:A1:125:U:C5'	2.27	0.47
1:A1:268:C:C4	1:A1:288:A:H2	2.32	0.47
1:A1:317:C:O2	1:A1:317:C:H2'	2.14	0.47
1:A1:342:C:O2	1:A1:342:C:C2'	2.61	0.47
1:A1:377:G:HO2'	1:A1:378:A:P	2.34	0.47
1:A1:523:G:H2'	1:A1:524:U:N3	2.29	0.47
1:A1:690:G:C2'	1:A1:691:C:C5'	2.92	0.47
1:A1:809:A:N1	1:A1:810:G:N1	2.62	0.47
1:A1:877:G:H5'	1:A1:936:G:H21	1.79	0.47
1:A1:989:U:C2	1:A1:990:C:C6	3.03	0.47
1:A1:1096:C:H2'	1:A1:1096:C:O2	2.13	0.47
1:A1:1198:G:C5'	1:A1:1199:G:H8	2.27	0.47
1:A1:1299:G:C6	1:A1:1300:A:N6	2.83	0.47
1:A1:1391:A:C3'	1:A1:1392:U:H5"	2.44	0.47
1:A1:1471:A:H2'	1:A1:1471:A:N3	2.29	0.47
1:A1:1586:A:H2'	1:A1:1587:A:O4'	2.13	0.47
1:A1:1600:A:C2'	1:A1:1602:C:H41	2.28	0.47
1:A1:1722:A:OP1	1:A1:1722:A:C4'	2.62	0.47
1:A1:1734:U:N3	1:A1:1735:U:C4	2.82	0.47
2:AA:50:VAL:O	2:AA:53:THR:CB	2.63	0.47
3:AB:138:PRO:C	3:AB:140:ARG:H	2.19	0.47
12:AK:48:ASN:O	12:AK:52:GLY:N	2.41	0.47
13:AL:76:PRO:C	13:AL:81:ILE:H	2.22	0.47
13:AL:114:GLU:C	13:AL:116:LEU:N	2.70	0.47
14:AM:1:MET:N	14:AM:2:PRO:HA	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:12:GLN:CB	15:AN:14:GLN:O	2.63	0.47
20:AS:51:GLY:O	20:AS:52:PHE:C	2.58	0.47
24:Ac:4:UNK:HA	24:Ac:99:UNK:N	2.29	0.47
24:Ac:8:UNK:O	24:Ac:65:UNK:O	2.33	0.47
24:Ac:8:UNK:CB	24:Ac:67:UNK:N	2.77	0.47
29:B1:53:G:N2	29:B1:1546:A:C2	2.82	0.47
29:B1:109:A:H4'	29:B1:110:G:OP1	2.13	0.47
29:B1:155:G:P	29:B1:155:G:C8	2.98	0.47
29:B1:207:U:O2'	29:B1:208:C:H5'	2.15	0.47
29:B1:218:G:H8	29:B1:218:G:OP1	1.97	0.47
29:B1:264:G:C2	29:B1:265:A:C4	3.03	0.47
29:B1:278:U:C4	29:B1:279:U:C4	3.03	0.47
29:B1:283:G:H3'	29:B1:285:A:C8	2.49	0.47
29:B1:437:G:C5	29:B1:438:A:C6	3.03	0.47
29:B1:506:U:C2	29:B1:585:A:N1	2.82	0.47
29:B1:532:A:H3'	29:B1:533:A:H8	1.75	0.47
29:B1:593:C:H3'	29:B1:609:G:H22	1.78	0.47
29:B1:762:U:OP1	29:B1:762:U:C4'	2.60	0.47
29:B1:888:A:C5	29:B1:889:U:C4	3.03	0.47
29:B1:1056:U:H3'	29:B1:1056:U:C6	2.50	0.47
29:B1:1084:A:H3'	29:B1:1085:A:H8	1.80	0.47
29:B1:1157:G:C6	29:B1:1158:A:N3	2.82	0.47
29:B1:1168:U:O2'	29:B1:1169:A:H5"	2.15	0.47
29:B1:1220:U:C4	29:B1:1286:A:N7	2.82	0.47
29:B1:1272:C:H2'	29:B1:1273:A:C4'	2.44	0.47
29:B1:1390:A:N7	29:B1:1418:A:C5	2.83	0.47
29:B1:1455:U:C3'	29:B1:1456:A:C8	2.97	0.47
29:B1:1455:U:C2	29:B1:3078:U:H5	2.32	0.47
29:B1:1489:A:C2	29:B1:1854:C:C2	3.02	0.47
29:B1:1650:G:H2'	29:B1:1651:U:C6	2.49	0.47
29:B1:1715:A:C8	29:B1:1716:U:H5"	2.50	0.47
29:B1:1743:G:H2'	29:B1:1744:G:H5'	1.96	0.47
29:B1:1860:G:H2'	29:B1:1861:G:C8	2.48	0.47
29:B1:2285:C:H5	29:B1:2286:U:C6	2.33	0.47
29:B1:2290:C:C4	29:B1:2303:A:N1	2.82	0.47
29:B1:2373:A:N3	29:B1:2824:G:O2'	2.47	0.47
29:B1:2414:G:N2	29:B1:2415:C:H1'	2.30	0.47
29:B1:2419:A:N7	29:B1:2606:G:O6	2.47	0.47
29:B1:2506:U:O5'	29:B1:2506:U:H6	1.98	0.47
29:B1:2640:A:C8	29:B1:2641:U:C5	3.02	0.47
29:B1:2895:G:C5	29:B1:2907:G:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2932:U:C6	29:B1:2935:U:C5	2.86	0.47
29:B1:2987:A:C4	29:B1:2988:C:C6	3.03	0.47
29:B1:3211:C:C4'	29:B1:3211:C:OP1	2.62	0.47
29:B1:3221:C:H2'	29:B1:3222:U:H5'	1.96	0.47
29:B1:3260:G:N3	29:B1:3260:G:C2'	2.75	0.47
29:B1:3274:A:C4'	29:B1:3275:U:OP2	2.61	0.47
29:B1:3359:A:N3	29:B1:3360:C:H1'	2.30	0.47
30:B2:52:G:N2	30:B2:53:U:C2	2.83	0.47
30:B2:111:U:O3'	30:B2:113:C:P	2.72	0.47
31:B3:82:U:O3'	31:B3:83:C:O4'	2.32	0.47
31:B3:110:C:H4'	31:B3:112:U:H5	1.78	0.47
35:BD:177:ASP:C	35:BD:179:LEU:N	2.70	0.47
37:BF:126:GLN:C	37:BF:128:LYS:H	2.21	0.47
40:BI:40:HIS:O	40:BI:42:ASP:N	2.48	0.47
41:BJ:45:GLU:O	41:BJ:47:PRO:N	2.47	0.47
44:BO:82:GLY:HA3	44:BO:87:GLN:CB	2.44	0.47
46:BQ:111:LYS:O	46:BQ:113:TYR:N	2.48	0.47
49:BT:35:LYS:C	49:BT:37:GLY:N	2.73	0.47
49:BT:77:ASN:CB	49:BT:87:LYS:O	2.62	0.47
51:BV:5:ILE:H	51:BV:13:ILE:H	1.62	0.47
56:Ba:84:ASP:O	56:Ba:85:ALA:CB	2.63	0.47
1:C1:149:C:C2	1:C1:150:U:C6	3.02	0.47
1:C1:151:G:H22	1:C1:163:G:N2	2.12	0.47
1:C1:167:U:C5'	1:C1:167:U:C6	2.87	0.47
1:C1:176:C:C5	1:C1:177:U:C4	3.03	0.47
1:C1:215:A:N7	1:C1:216:U:C5	2.82	0.47
1:C1:278:U:O2	1:C1:278:U:C3'	2.62	0.47
1:C1:341:A:N3	1:C1:342:C:C6	2.83	0.47
1:C1:545:A:O2'	1:C1:546:U:C6	2.68	0.47
1:C1:586:G:H2'	1:C1:587:C:H6	1.80	0.47
1:C1:604:A:C2	1:C1:605:A:C2	3.03	0.47
1:C1:649:U:O4	1:C1:685:A:C6	2.68	0.47
1:C1:774:A:H2'	1:C1:775:G:C5'	2.44	0.47
1:C1:824:G:N1	1:C1:850:A:C2	2.82	0.47
1:C1:1028:C:C1'	1:C1:1029:U:H5"	2.40	0.47
1:C1:1053:G:C2	1:C1:1067:C:H1'	2.50	0.47
1:C1:1073:G:C5	1:C1:1074:G:C5	3.02	0.47
1:C1:1120:U:C2	1:C1:1121:C:C6	3.01	0.47
1:C1:1122:G:N2	1:C1:1126:G:C6	2.82	0.47
1:C1:1122:G:C2	1:C1:1126:G:C6	3.03	0.47
1:C1:1142:A:C2'	1:C1:1143:A:O4'	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1146:G:N1	1:C1:1147:A:N6	2.62	0.47
1:C1:1162:C:OP2	1:C1:1162:C:H6	1.96	0.47
1:C1:1183:A:C6	1:C1:1184:A:N1	2.83	0.47
1:C1:1192:C:C6	1:C1:1193:A:C8	3.03	0.47
1:C1:1314:U:O2'	1:C1:1315:U:OP2	2.32	0.47
1:C1:1332:C:O5'	1:C1:1332:C:H6	1.97	0.47
1:C1:1470:C:C2'	1:C1:1471:A:OP1	2.63	0.47
1:C1:1483:A:O2'	11:CJ:72:GLY:HA2	2.14	0.47
1:C1:1650:U:C2'	1:C1:1651:A:C8	2.97	0.47
1:C1:1764:C:C5'	1:C1:1764:C:C6	2.87	0.47
1:C1:1783:C:N4	1:C1:1784:C:H41	2.12	0.47
2:CA:13:ASP:C	2:CA:17:LEU:O	2.57	0.47
2:CA:63:ILE:C	2:CA:65:ALA:N	2.71	0.47
2:CA:86:VAL:O	2:CA:88:LYS:N	2.48	0.47
3:CB:152:HIS:O	3:CB:154:LEU:N	2.48	0.47
3:CB:228:ASN:HA	3:CB:229:LEU:HA	1.62	0.47
4:CC:192:PRO:O	4:CC:193:ALA:CB	2.62	0.47
9:CH:64:ALA:HA	9:CH:68:ALA:CB	2.44	0.47
11:CJ:91:ALA:H	11:CJ:97:VAL:CB	2.26	0.47
13:CL:32:LEU:O	13:CL:38:VAL:CB	2.63	0.47
14:CM:27:LYS:O	14:CM:29:GLU:N	2.45	0.47
16:CO:7:LEU:C	16:CO:9:ASP:N	2.71	0.47
23:Cb:114:UNK:O	23:Cb:116:UNK:N	2.47	0.47
29:D1:54:C:H2'	29:D1:55:G:O5'	2.14	0.47
29:D1:96:G:C2	29:D1:97:U:N1	2.82	0.47
29:D1:121:A:H5'	29:D1:150:A:H2	1.79	0.47
29:D1:141:C:H2'	29:D1:142:C:H6	1.76	0.47
29:D1:214:G:H2'	29:D1:215:G:C8	2.49	0.47
29:D1:283:G:C2	29:D1:285:A:C6	3.02	0.47
29:D1:375:A:H2'	29:D1:376:G:OP1	2.13	0.47
29:D1:382:U:C2	29:D1:383:G:H1'	2.49	0.47
29:D1:535:G:N2	29:D1:558:U:HO2'	2.12	0.47
29:D1:538:G:C2	29:D1:556:U:H5	2.32	0.47
29:D1:577:C:O2	37:DF:149:ILE:HA	2.14	0.47
29:D1:605:U:C5'	29:D1:605:U:C6	2.88	0.47
29:D1:932:U:O4'	29:D1:933:A:H5"	2.14	0.47
29:D1:1292:C:O2	29:D1:1292:C:C2'	2.57	0.47
29:D1:1325:U:OP1	29:D1:1325:U:H4'	2.14	0.47
29:D1:1368:U:H2'	29:D1:1369:A:C8	2.43	0.47
29:D1:1379:G:C6	29:D1:1428:A:N1	2.82	0.47
29:D1:1602:A:N6	29:D1:1603:A:N6	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1706:C:C6	29:D1:1707:A:C8	3.03	0.47
29:D1:1717:U:H5”	29:D1:1717:U:H6	1.79	0.47
29:D1:1789:G:C2	29:D1:1790:G:N7	2.83	0.47
29:D1:1873:U:C2’	29:D1:1874:A:H5’	2.44	0.47
29:D1:1891:A:C6	29:D1:2345:A:C6	3.03	0.47
29:D1:2403:G:O4’	29:D1:2872:A:N7	2.47	0.47
29:D1:2673:A:N6	29:D1:2681:U:H3	2.06	0.47
29:D1:2725:U:C6	29:D1:2725:U:C3’	2.98	0.47
29:D1:2932:U:N1	29:D1:2935:U:C5	2.81	0.47
29:D1:2998:U:C6	29:D1:2998:U:C5’	2.94	0.47
29:D1:3119:U:O2	29:D1:3121:U:OP1	2.31	0.47
29:D1:3169:U:C4	29:D1:3170:A:C6	3.03	0.47
29:D1:3221:C:C4	29:D1:3222:U:H5	2.32	0.47
29:D1:3250:U:O2’	29:D1:3251:U:H5’	2.13	0.47
29:D1:3274:A:H1’	29:D1:3275:U:OP2	2.15	0.47
29:D1:3316:A:N6	29:D1:3320:A:C6	2.66	0.47
29:D1:3391:A:N3	29:D1:3392:U:C6	2.82	0.47
31:D3:28:C:O2	31:D3:28:C:C2’	2.62	0.47
31:D3:74:U:O2’	31:D3:89:A:C1’	2.63	0.47
32:DA:129:SER:O	32:DA:131:ALA:N	2.47	0.47
37:DF:100:LYS:C	37:DF:102:ASN:H	2.22	0.47
48:DS:5:ARG:O	48:DS:6:THR:C	2.57	0.47
49:DT:72:VAL:O	49:DT:73:GLY:O	2.32	0.47
50:DU:93:LEU:O	50:DU:94:TYR:O	2.32	0.47
57:Db:40:SER:C	57:Db:42:VAL:H	2.21	0.47
62:Dg:12:GLY:O	62:Dg:13:LYS:C	2.54	0.47
62:Dg:68:ALA:C	62:Dg:70:THR:N	2.72	0.47
1:A1:38:C:C2’	1:A1:39:A:H5”	2.44	0.47
1:A1:139:C:H2’	1:A1:139:C:O2	2.13	0.47
1:A1:186:C:N4	1:A1:187:G:C5	2.82	0.47
1:A1:273:G:C4	1:A1:274:G:C8	3.02	0.47
1:A1:607:G:O6	1:A1:613:G:H5’	2.14	0.47
1:A1:743:U:C2	1:A1:744:U:C6	3.01	0.47
1:A1:767:U:OP1	1:A1:767:U:H3’	2.14	0.47
1:A1:826:U:H2’	1:A1:827:C:C5	2.49	0.47
1:A1:940:A:C2	1:A1:941:A:N9	2.82	0.47
1:A1:988:A:C2	1:A1:989:U:H1’	2.49	0.47
1:A1:1028:C:H1’	1:A1:1029:U:H3’	1.97	0.47
1:A1:1035:G:N1	1:A1:1101:G:C5	2.83	0.47
1:A1:1042:G:N1	1:A1:1043:A:C6	2.83	0.47
1:A1:1170:G:C6	1:A1:1574:G:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1207:C:C2	1:A1:1455:G:N1	2.83	0.47
1:A1:1346:A:C2	15:AN:13:GLU:O	2.63	0.47
1:A1:1379:C:O2	1:A1:1379:C:C2'	2.63	0.47
1:A1:1437:U:H2'	1:A1:1438:G:H5'	1.95	0.47
1:A1:1456:C:H5"	1:A1:1457:C:H5'	1.92	0.47
1:A1:1543:A:C8	1:A1:1569:A:C6	3.03	0.47
1:A1:1629:G:H2'	1:A1:1630:U:C1'	2.43	0.47
1:A1:1637:C:O2'	1:A1:1638:G:OP1	2.32	0.47
1:A1:1660:A:C4	1:A1:1661:U:C6	3.02	0.47
1:A1:1780:G:C1'	29:B1:2262:A:O3'	2.63	0.47
4:AC:46:THR:O	4:AC:85:VAL:N	2.47	0.47
5:AD:144:GLU:HA	5:AD:160:VAL:C	2.39	0.47
13:AL:32:LEU:O	13:AL:38:VAL:CB	2.63	0.47
13:AL:50:ALA:C	13:AL:52:VAL:N	2.71	0.47
23:Ab:77:UNK:O	23:Ab:78:UNK:C	2.62	0.47
29:B1:49:A:O2'	29:B1:50:U:P	2.73	0.47
29:B1:167:U:H2'	29:B1:168:U:C6	2.49	0.47
29:B1:221:A:N3	29:B1:224:C:C5	2.82	0.47
29:B1:313:A:C5	29:B1:314:U:C4	3.02	0.47
29:B1:340:C:O2'	29:B1:341:G:O4'	2.32	0.47
29:B1:372:A:N6	29:B1:373:A:C6	2.83	0.47
29:B1:384:A:H8	29:B1:384:A:P	2.36	0.47
29:B1:535:G:OP1	74:B1:3471:OHX:N1	2.48	0.47
29:B1:595:G:C6	29:B1:596:C:C5	3.02	0.47
29:B1:648:C:H4'	29:B1:649:A:O5'	2.13	0.47
29:B1:706:A:C2'	29:B1:707:U:H5'	2.44	0.47
29:B1:739:G:C4	29:B1:740:G:C8	3.03	0.47
29:B1:758:C:C1'	29:B1:759:U:OP2	2.62	0.47
29:B1:809:G:N3	29:B1:809:G:H2'	2.29	0.47
29:B1:843:A:C2'	29:B1:844:G:H5'	2.45	0.47
29:B1:903:U:H2'	29:B1:903:U:O2	2.14	0.47
29:B1:913:A:C2	29:B1:2134:G:N3	2.82	0.47
29:B1:962:A:N6	29:B1:2408:U:O2	2.48	0.47
29:B1:1004:U:O5'	29:B1:1004:U:H6	1.98	0.47
29:B1:1032:C:H2'	29:B1:1033:U:C6	2.50	0.47
29:B1:1038:C:OP1	29:B1:1038:C:C4'	2.62	0.47
29:B1:1056:U:C6	29:B1:1056:U:C3'	2.98	0.47
29:B1:1082:U:OP2	29:B1:1082:U:O3'	2.33	0.47
29:B1:1149:G:H3'	29:B1:1150:A:H5"	1.96	0.47
29:B1:1172:G:C2'	29:B1:1173:U:O5'	2.62	0.47
29:B1:1204:A:H62	29:B1:1300:G:N2	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1291:A:C2'	29:B1:1292:C:O5'	2.62	0.47
29:B1:1400:G:C2	29:B1:1401:A:C8	3.03	0.47
29:B1:1406:A:H2'	29:B1:1407:A:C8	2.50	0.47
29:B1:1625:A:N6	29:B1:1626:U:C2	2.83	0.47
29:B1:1654:A:N1	29:B1:1655:G:N3	2.61	0.47
29:B1:1724:U:O2'	29:B1:1725:C:P	2.72	0.47
29:B1:1724:U:C2'	29:B1:1725:C:O4'	2.63	0.47
29:B1:1746:U:H2'	29:B1:1747:G:O4'	2.14	0.47
29:B1:1831:U:O2	29:B1:1831:U:H2'	2.15	0.47
29:B1:1923:C:O2'	29:B1:1924:U:H5'	2.14	0.47
29:B1:1948:G:H1'	29:B1:2100:A:N6	2.29	0.47
29:B1:2104:A:C2'	29:B1:2105:G:H5"	2.45	0.47
29:B1:2276:G:O6	29:B1:2277:C:C4	2.67	0.47
29:B1:2357:A:N1	29:B1:2983:C:C5	2.76	0.47
29:B1:2559:U:O2	29:B1:2559:U:H2'	2.14	0.47
29:B1:2584:G:O2'	29:B1:2585:G:H4'	2.15	0.47
29:B1:2588:U:O2	29:B1:2588:U:H2'	2.13	0.47
29:B1:2678:A:C5'	29:B1:2679:A:C2	2.97	0.47
29:B1:2701:U:O4'	29:B1:2705:A:C6	2.67	0.47
29:B1:2738:A:C2	29:B1:2739:A:C4	3.03	0.47
29:B1:2836:C:H5	29:B1:2853:A:C2	2.33	0.47
29:B1:2969:A:C6	29:B1:2970:C:N4	2.83	0.47
29:B1:2997:G:N3	29:B1:2997:G:O2'	2.43	0.47
29:B1:3070:A:C6	29:B1:3071:U:C4	3.03	0.47
29:B1:3111:U:O4	29:B1:3121:U:H5	1.98	0.47
29:B1:3218:A:C3'	29:B1:3220:G:C8	2.97	0.47
29:B1:3302:U:O5'	29:B1:3302:U:H6	1.97	0.47
29:B1:3368:U:H3'	29:B1:3369:G:H5"	1.96	0.47
74:B1:3492:OHX:N1	54:BY:19:LYS:C	2.73	0.47
30:B2:36:C:H42	30:B2:42:A:H61	1.63	0.47
35:BD:174:ALA:O	35:BD:175:HIS:C	2.57	0.47
36:BE:43:LYS:CA	49:BT:70:SER:N	2.77	0.47
36:BE:255:PRO:O	36:BE:256:THR:C	2.58	0.47
38:BG:161:VAL:O	38:BG:162:PRO:O	2.33	0.47
39:BH:86:THR:O	39:BH:87:ALA:C	2.57	0.47
44:BO:126:THR:O	44:BO:127:TYR:CB	2.62	0.47
47:BR:18:ALA:O	47:BR:19:PRO:C	2.58	0.47
50:BU:27:ASP:O	50:BU:29:SER:N	2.47	0.47
52:BW:74:LYS:O	52:BW:77:GLU:N	2.41	0.47
60:Be:34:THR:O	60:Be:35:ILE:O	2.33	0.47
63:Bh:40:UNK:O	63:Bh:43:UNK:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Bj:5:UNK:HA	26:Bj:8:UNK:CB	2.44	0.47
1:C1:10:G:H2'	1:C1:11:A:H8	1.79	0.47
1:C1:430:G:C5	1:C1:431:C:C5	3.02	0.47
1:C1:601:A:C5	1:C1:602:U:C4	3.03	0.47
1:C1:867:G:C5	1:C1:868:G:N7	2.83	0.47
1:C1:887:A:N3	1:C1:887:A:H2'	2.29	0.47
1:C1:895:G:C6	1:C1:896:U:N3	2.83	0.47
1:C1:930:A:H3'	1:C1:931:C:C5	2.50	0.47
1:C1:1147:A:C6	1:C1:1148:C:C4	3.03	0.47
1:C1:1160:A:C2'	1:C1:1161:C:C6	2.86	0.47
1:C1:1188:G:H2'	1:C1:1189:A:C8	2.45	0.47
1:C1:1201:G:N7	1:C1:1202:A:N3	2.62	0.47
1:C1:1318:G:O2'	1:C1:1319:A:H5'	2.14	0.47
1:C1:1331:A:H2'	1:C1:1332:C:H5'	1.97	0.47
1:C1:1365:C:OP1	11:CJ:28:LEU:O	2.33	0.47
1:C1:1552:U:N3	1:C1:1553:G:C5	2.83	0.47
1:C1:1660:A:C4	1:C1:1661:U:C6	3.02	0.47
1:C1:1714:A:N1	1:C1:1715:G:C2	2.83	0.47
1:C1:1744:A:C2'	1:C1:1745:G:H5'	2.43	0.47
2:CA:3:LEU:C	2:CA:5:ALA:H	2.23	0.47
8:CG:36:GLN:HA	8:CG:39:LYS:CB	2.45	0.47
11:CJ:25:GLY:H	11:CJ:64:ASP:HA	1.80	0.47
11:CJ:88:GLY:O	11:CJ:91:ALA:HB2	2.15	0.47
15:CN:20:ILE:C	15:CN:92:ASP:HA	2.38	0.47
21:CT:3:SER:O	21:CT:4:ASN:C	2.57	0.47
25:Cd:94:UNK:O	25:Cd:96:UNK:N	2.47	0.47
29:D1:9:U:O2	29:D1:9:U:C2'	2.63	0.47
29:D1:75:G:C6	29:D1:76:G:N1	2.83	0.47
29:D1:224:C:H2'	29:D1:225:C:O5'	2.15	0.47
29:D1:532:A:C6	29:D1:533:A:C2	3.03	0.47
29:D1:544:C:OP2	29:D1:544:C:H3'	2.15	0.47
29:D1:651:G:C6	29:D1:652:G:O6	2.67	0.47
29:D1:680:G:C6	29:D1:701:G:C6	3.02	0.47
29:D1:1076:C:O2	29:D1:1076:C:C2'	2.62	0.47
29:D1:1107:C:O2	29:D1:1108:U:C5	2.68	0.47
29:D1:1120:A:C2	29:D1:1121:U:C5	3.02	0.47
29:D1:1165:A:C2	29:D1:1166:G:C8	3.02	0.47
29:D1:1173:U:O4'	29:D1:1179:A:C4	2.68	0.47
29:D1:1291:A:O2'	29:D1:1292:C:OP1	2.32	0.47
29:D1:1358:C:H3'	29:D1:1359:C:H6	1.79	0.47
29:D1:1455:U:C2	29:D1:3078:U:C6	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1514:G:N7	29:D1:1841:A:C4	2.82	0.47
29:D1:1659:U:N3	29:D1:1660:C:C4	2.83	0.47
29:D1:1666:G:C2'	29:D1:1667:A:H5'	2.44	0.47
29:D1:1713:G:C4	29:D1:1730:G:N2	2.83	0.47
29:D1:1751:G:C5	29:D1:1752:A:N7	2.82	0.47
29:D1:1847:A:C2	29:D1:1849:C:C2	3.03	0.47
29:D1:2149:A:H2'	29:D1:2150:G:O5'	2.15	0.47
29:D1:2150:G:C5	29:D1:2151:C:C5	3.03	0.47
29:D1:2224:A:H2'	29:D1:2225:U:C4'	2.44	0.47
29:D1:2253:G:C8	29:D1:2254:U:C4	3.02	0.47
29:D1:2253:G:C6	29:D1:2254:U:N3	2.82	0.47
29:D1:2357:A:H2'	29:D1:2358:A:C8	2.49	0.47
29:D1:2376:G:N2	29:D1:2377:G:C2	2.83	0.47
29:D1:2610:G:H2'	29:D1:2610:G:N3	2.28	0.47
29:D1:2673:A:O2'	42:DK:107:ASP:HA	2.14	0.47
29:D1:2704:A:OP2	74:D1:3402:OHX:N2	2.47	0.47
29:D1:2830:G:H1	29:D1:2858:U:H3	1.63	0.47
29:D1:2876:C:O2'	29:D1:2877:G:H5'	2.15	0.47
29:D1:2879:C:C4	29:D1:2880:U:C4	3.03	0.47
29:D1:2997:G:C1'	29:D1:2998:U:OP2	2.62	0.47
29:D1:3000:A:C2	29:D1:3001:C:C4	3.02	0.47
29:D1:3040:A:C2'	29:D1:3041:U:H5'	2.45	0.47
29:D1:3059:G:C2'	29:D1:3060:C:H5'	2.44	0.47
29:D1:3083:G:H2'	29:D1:3084:C:O4'	2.15	0.47
29:D1:3131:U:O2	29:D1:3131:U:C2'	2.57	0.47
29:D1:3149:G:C5	29:D1:3150:A:C8	3.02	0.47
29:D1:3170:A:C2'	29:D1:3171:U:O5'	2.63	0.47
29:D1:3241:G:N1	29:D1:3246:G:N1	2.63	0.47
29:D1:3274:A:C1'	29:D1:3275:U:OP2	2.63	0.47
31:D3:74:U:OP2	31:D3:76:C:C4	2.67	0.47
37:DF:115:GLU:O	37:DF:116:LYS:C	2.57	0.47
38:DG:152:GLY:O	38:DG:153:PHE:CB	2.62	0.47
39:DH:94:PHE:O	39:DH:96:LYS:N	2.42	0.47
39:DH:99:PRO:CA	39:DH:237:ILE:H	2.28	0.47
39:DH:100:GLU:O	39:DH:103:ALA:N	2.46	0.47
41:DJ:205:SER:CB	41:DJ:206:LEU:HA	2.44	0.47
41:DJ:205:SER:N	41:DJ:206:LEU:HA	2.29	0.47
72:DL:70:ALA:C	72:DL:72:SER:H	2.22	0.47
45:DP:94:ARG:O	45:DP:97:ALA:N	2.48	0.47
51:DV:18:GLY:CA	51:DV:32:GLN:HA	2.45	0.47
53:DX:70:ILE:O	53:DX:71:SER:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DZ:10:ILE:C	55:DZ:12:GLN:N	2.71	0.47
56:Da:38:LYS:C	56:Da:40:ALA:H	2.23	0.47
62:Dg:42:CYS:N	74:Dg:101:OHX:N6	2.57	0.47
1:A1:55:A:H3'	1:A1:56:U:H5"	1.96	0.47
1:A1:60:U:C5	1:A1:453:U:H2'	2.49	0.47
1:A1:127:G:O6	1:A1:179:A:C5	2.59	0.47
1:A1:138:A:C6	1:A1:142:G:H1'	2.50	0.47
1:A1:168:A:C2'	1:A1:169:A:C8	2.98	0.47
1:A1:206:A:C2	1:A1:262:U:C4	3.02	0.47
1:A1:217:A:H8	1:A1:739:G:OP1	1.98	0.47
1:A1:225:A:C2	1:A1:226:A:C4	3.02	0.47
1:A1:242:U:O2	1:A1:242:U:H3'	2.14	0.47
1:A1:552:G:N1	1:A1:553:G:C2	2.83	0.47
1:A1:555:A:H1'	1:A1:556:A:OP1	2.15	0.47
1:A1:601:A:H3'	1:A1:602:U:H6	1.79	0.47
1:A1:617:U:H2'	1:A1:618:U:C5	2.50	0.47
1:A1:643:G:N2	1:A1:692:C:N3	2.62	0.47
1:A1:716:C:H2'	1:A1:717:C:O4'	2.14	0.47
1:A1:755:A:C6	1:A1:756:A:C6	3.02	0.47
1:A1:760:A:C4	1:A1:791:A:C2	3.03	0.47
1:A1:762:A:H2'	1:A1:762:A:N3	2.29	0.47
1:A1:817:A:H2'	1:A1:818:C:C6	2.50	0.47
1:A1:836:U:N3	1:A1:837:G:C5	2.83	0.47
1:A1:867:G:N3	1:A1:868:G:C8	2.82	0.47
1:A1:990:C:H4'	9:AH:128:LYS:O	2.15	0.47
1:A1:995:A:C5'	1:A1:996:U:OP2	2.60	0.47
1:A1:1042:G:C2'	1:A1:1043:A:O4'	2.61	0.47
1:A1:1062:A:H2'	1:A1:1063:U:O4'	2.14	0.47
1:A1:1096:C:C2	1:A1:1098:U:OP2	2.68	0.47
1:A1:1103:U:C2'	1:A1:1104:U:H5'	2.44	0.47
1:A1:1239:U:C5	1:A1:1241:G:C5	3.02	0.47
1:A1:1262:U:H2'	1:A1:1263:G:C8	2.50	0.47
1:A1:1295:G:C1'	1:A1:1321:A:C2	2.98	0.47
1:A1:1349:G:C4'	1:A1:1350:U:C5'	2.92	0.47
1:A1:1402:G:C5	1:A1:1403:C:C4	3.02	0.47
1:A1:1403:C:C2'	1:A1:1404:C:H5'	2.45	0.47
1:A1:1450:U:OP2	74:A1:1970:OHX:N6	2.47	0.47
1:A1:1452:U:C2	1:A1:1453:G:C8	3.03	0.47
1:A1:1466:G:C5	1:A1:1467:C:C4	3.03	0.47
1:A1:1489:U:C5	1:A1:1513:G:N1	2.79	0.47
1:A1:1538:U:H6	1:A1:1538:U:H3'	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1558:U:H2'	1:A1:1559:A:H2	1.75	0.47
1:A1:1596:C:O2	1:A1:1596:C:O4'	2.27	0.47
1:A1:1599:C:O2'	1:A1:1600:A:C2	2.64	0.47
1:A1:1644:C:C2'	1:A1:1645:G:O5'	2.63	0.47
1:A1:1673:G:N7	1:A1:1674:C:C5	2.83	0.47
1:A1:1702:A:N6	1:A1:1703:C:H41	2.13	0.47
2:AA:58:VAL:O	2:AA:61:ALA:HB3	2.14	0.47
2:AA:61:ALA:O	2:AA:65:ALA:N	2.47	0.47
3:AB:148:LEU:O	3:AB:195:ASP:CB	2.63	0.47
3:AB:230:TRP:C	3:AB:232:GLU:H	2.22	0.47
5:AD:66:GLN:HA	5:AD:86:GLN:C	2.40	0.47
5:AD:113:ILE:O	5:AD:114:ILE:C	2.56	0.47
6:AE:26:ALA:C	6:AE:28:LEU:N	2.72	0.47
6:AE:136:VAL:O	6:AE:137:GLY:C	2.58	0.47
8:AG:129:TYR:C	8:AG:131:THR:H	2.22	0.47
9:AH:30:VAL:N	9:AH:40:ALA:HB3	2.30	0.47
10:AI:36:LEU:HA	10:AI:37:ALA:O	2.15	0.47
11:AJ:98:ASP:C	11:AJ:100:GLN:H	2.23	0.47
14:AM:132:LEU:O	14:AM:133:ASP:C	2.57	0.47
15:AN:31:VAL:O	15:AN:32:LYS:C	2.58	0.47
15:AN:116:VAL:O	15:AN:117:VAL:CB	2.62	0.47
17:AP:76:LEU:O	17:AP:80:GLY:N	2.45	0.47
20:AS:46:LYS:O	20:AS:50:ILE:HA	2.14	0.47
23:Ab:59:UNK:O	23:Ab:60:UNK:C	2.63	0.47
24:Ac:18:UNK:O	24:Ac:19:UNK:C	2.62	0.47
26:Ae:3:UNK:O	26:Ae:4:UNK:C	2.60	0.47
29:B1:10:C:C2'	29:B1:11:A:O5'	2.63	0.47
29:B1:23:A:OP1	59:Bd:43:LYS:CA	2.62	0.47
29:B1:53:G:C6	29:B1:54:C:C4	3.03	0.47
29:B1:79:U:C2	29:B1:80:G:C8	3.02	0.47
29:B1:90:C:H1'	29:B1:281:G:H4'	1.96	0.47
29:B1:122:A:N3	29:B1:123:A:C8	2.83	0.47
29:B1:169:U:O5'	29:B1:169:U:H6	1.97	0.47
29:B1:238:A:O2'	29:B1:239:G:O5'	2.31	0.47
29:B1:275:U:C2'	29:B1:276:U:H5'	2.45	0.47
29:B1:287:G:C6	29:B1:288:C:C4	3.02	0.47
29:B1:339:C:C2	29:B1:340:C:C5	3.03	0.47
29:B1:340:C:O2'	29:B1:344:A:N3	2.45	0.47
29:B1:393:U:N3	29:B1:394:G:N7	2.62	0.47
29:B1:418:A:H2'	29:B1:419:G:C8	2.50	0.47
29:B1:532:A:C2	29:B1:560:G:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:665:A:H2'	29:B1:666:A:O4'	2.15	0.47
29:B1:733:G:HO2'	29:B1:734:C:H5	1.61	0.47
29:B1:744:A:C2	29:B1:745:C:C2	3.03	0.47
29:B1:768:C:H2'	29:B1:769:G:C4	2.49	0.47
29:B1:771:A:C6	29:B1:772:U:C2	3.03	0.47
29:B1:781:G:O6	29:B1:782:U:C4	2.67	0.47
29:B1:808:A:N6	29:B1:934:G:C8	2.82	0.47
29:B1:947:G:C5	29:B1:948:C:C5	3.03	0.47
29:B1:997:A:O2'	30:B2:102:A:N1	2.40	0.47
29:B1:1047:A:N1	29:B1:1048:A:C2	2.82	0.47
29:B1:1100:U:C2	29:B1:1101:G:C8	3.02	0.47
29:B1:1145:G:C5	29:B1:1146:C:C6	3.02	0.47
29:B1:1148:G:C5	29:B1:1149:G:N7	2.82	0.47
29:B1:1179:A:H3'	29:B1:1179:A:C8	2.50	0.47
29:B1:1207:G:H8	29:B1:1207:G:C5'	2.27	0.47
29:B1:1251:A:N3	29:B1:1251:A:H2'	2.30	0.47
29:B1:1368:U:C2	29:B1:1369:A:C8	3.03	0.47
29:B1:1407:A:H5'	29:B1:1408:G:OP2	2.15	0.47
29:B1:1421:G:C2	29:B1:1422:G:N7	2.83	0.47
29:B1:1526:U:O4'	29:B1:1594:A:N1	2.48	0.47
29:B1:1557:A:C2'	29:B1:1558:A:O5'	2.63	0.47
29:B1:1645:U:H2'	29:B1:1646:G:O5'	2.14	0.47
29:B1:1661:G:N2	29:B1:1789:G:H1'	2.30	0.47
29:B1:1703:U:H3'	29:B1:1703:U:O2	2.15	0.47
29:B1:1734:G:C6	29:B1:1735:G:C5	3.03	0.47
29:B1:1850:A:O2'	29:B1:1851:G:H5'	2.15	0.47
29:B1:1881:A:C6	29:B1:1882:G:N7	2.82	0.47
29:B1:1884:A:C4	29:B1:1885:U:C2	3.03	0.47
29:B1:2127:U:O4'	29:B1:2301:U:H5"	2.15	0.47
29:B1:2133:U:C2'	29:B1:2134:G:H5'	2.44	0.47
29:B1:2181:C:C2'	29:B1:2182:A:O5'	2.63	0.47
29:B1:2197:C:H4'	29:B1:2198:A:H8	1.79	0.47
29:B1:2206:G:H2'	29:B1:2206:G:N3	2.28	0.47
29:B1:2225:U:C2	29:B1:2226:U:C5	3.03	0.47
29:B1:2254:U:C2'	29:B1:2255:A:OP1	2.62	0.47
29:B1:2314:U:O2	29:B1:2314:U:H5"	2.14	0.47
29:B1:2352:A:O2'	29:B1:2353:G:H5'	2.14	0.47
29:B1:2373:A:N7	29:B1:2867:C:H1'	2.29	0.47
29:B1:2397:A:H8	29:B1:2941:A:H61	1.62	0.47
29:B1:2400:G:O2'	29:B1:2401:A:H5"	2.15	0.47
29:B1:2420:C:C4	29:B1:2421:U:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2527:G:H5”	29:B1:2528:G:OP2	2.15	0.47
29:B1:2541:U:O2	29:B1:2542:U:H4’	2.15	0.47
29:B1:2639:G:C2	29:B1:2640:A:C8	3.02	0.47
29:B1:2640:A:N9	29:B1:2641:U:H5	2.13	0.47
29:B1:2665:U:N3	29:B1:2706:G:C6	2.78	0.47
29:B1:2683:U:O2	29:B1:2683:U:H2’	2.14	0.47
29:B1:2684:C:O2’	29:B1:2685:C:O5’	2.32	0.47
29:B1:2693:C:H5”	29:B1:2694:A:H5’	1.95	0.47
29:B1:2808:A:C2’	29:B1:2808:A:N3	2.77	0.47
29:B1:2814:G:C2	29:B1:2815:G:C5	3.03	0.47
29:B1:2850:G:H5”	29:B1:2850:G:H8	1.79	0.47
29:B1:2992:U:H5’	29:B1:3310:A:O2’	2.15	0.47
29:B1:3004:C:O2’	29:B1:3005:A:H5’	2.15	0.47
29:B1:3062:G:C5	29:B1:3063:C:C5	3.03	0.47
29:B1:3087:A:C6	29:B1:3088:G:C6	3.03	0.47
29:B1:3213:A:C8	29:B1:3213:A:C3’	2.94	0.47
29:B1:3328:G:H22	29:B1:3375:A:N6	2.13	0.47
29:B1:3351:U:H1’	29:B1:3352:U:OP1	2.15	0.47
29:B1:3376:A:H3’	29:B1:3377:G:C5’	2.45	0.47
30:B2:12:U:N1	30:B2:70:U:OP1	2.47	0.47
30:B2:38:U:H2’	30:B2:40:C:C5’	2.44	0.47
30:B2:47:C:O2	30:B2:48:U:N3	2.47	0.47
30:B2:63:A:O2’	30:B2:65:G:C8	2.63	0.47
30:B2:88:G:C4	30:B2:89:G:C8	3.02	0.47
31:B3:69:U:H3’	31:B3:70:G:C4’	2.44	0.47
31:B3:72:A:HO2’	31:B3:73:U:P	2.37	0.47
31:B3:80:A:C8	31:B3:80:A:OP2	2.68	0.47
31:B3:109:A:C6	31:B3:110:C:O2	2.68	0.47
31:B3:123:G:C5’	74:B3:206:OHX:N1	2.71	0.47
33:BB:80:GLU:N	62:Bg:65:ALA:HB3	2.30	0.47
33:BB:113:VAL:O	33:BB:114:SER:C	2.56	0.47
35:BD:134:LEU:C	35:BD:136:LEU:N	2.73	0.47
35:BD:163:LYS:C	35:BD:165:ALA:N	2.72	0.47
36:BE:36:LEU:C	36:BE:38:THR:H	2.22	0.47
37:BF:30:LEU:CB	37:BF:31:ARG:CB	2.93	0.47
37:BF:43:LEU:H	37:BF:84:VAL:HA	1.79	0.47
37:BF:149:ILE:CA	37:BF:150:LYS:CB	2.92	0.47
37:BF:150:LYS:C	37:BF:152:THR:H	2.21	0.47
37:BF:151:LYS:O	37:BF:154:LEU:N	2.48	0.47
37:BF:167:ASN:O	37:BF:170:LYS:N	2.33	0.47
38:BG:73:GLY:CA	38:BG:74:SER:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:184:ALA:HA	39:BH:194:THR:O	2.14	0.47
40:BI:29:GLY:O	40:BI:30:PRO:C	2.58	0.47
40:BI:86:TYR:CB	40:BI:148:GLY:N	2.78	0.47
40:BI:171:ASP:O	40:BI:172:ILE:O	2.33	0.47
41:BJ:61:SER:HA	41:BJ:126:ALA:HB2	1.96	0.47
42:BK:7:ASN:CA	42:BK:8:PRO:CB	2.89	0.47
42:BK:147:THR:O	42:BK:148:VAL:O	2.33	0.47
44:BO:78:GLY:H	44:BO:79:ALA:CB	2.27	0.47
44:BO:80:THR:C	44:BO:81:TYR:O	2.54	0.47
45:BP:23:VAL:O	45:BP:25:LYS:N	2.47	0.47
46:BQ:62:ARG:C	46:BQ:64:ASN:N	2.72	0.47
46:BQ:77:GLY:O	46:BQ:79:THR:N	2.47	0.47
46:BQ:122:ALA:CB	46:BQ:143:PRO:C	2.87	0.47
47:BR:45:ASN:O	47:BR:47:VAL:N	2.46	0.47
50:BU:105:PRO:O	50:BU:106:LYS:C	2.56	0.47
53:BX:75:ARG:C	53:BX:77:LYS:N	2.70	0.47
53:BX:118:LEU:O	53:BX:120:GLN:N	2.48	0.47
54:BY:13:GLY:O	54:BY:14:HIS:CB	2.59	0.47
54:BY:138:ILE:C	54:BY:140:ALA:N	2.73	0.47
55:BZ:28:LYS:C	55:BZ:30:THR:N	2.67	0.47
59:Bd:52:LYS:HA	59:Bd:53:ALA:HB3	1.97	0.47
62:Bg:25:GLN:O	62:Bg:27:LYS:N	2.48	0.47
1:C1:96:G:C6	1:C1:97:C:N4	2.83	0.47
1:C1:103:A:N7	1:C1:360:A:C6	2.82	0.47
1:C1:143:G:O3'	1:C1:144:U:H4'	2.14	0.47
1:C1:169:A:C4	1:C1:171:A:C8	3.03	0.47
1:C1:202:A:C5	1:C1:203:U:O4	2.68	0.47
1:C1:209:U:N3	1:C1:210:A:N7	2.62	0.47
1:C1:224:C:O2'	1:C1:225:A:H8	1.97	0.47
1:C1:439:U:C5	1:C1:465:G:N2	2.83	0.47
1:C1:451:A:H61	1:C1:456:A:N6	2.11	0.47
1:C1:469:C:C2	1:C1:469:C:P	3.08	0.47
1:C1:474:A:N1	1:C1:594:A:H5'	2.30	0.47
1:C1:477:A:H2'	1:C1:478:A:H8	1.79	0.47
1:C1:551:G:N1	1:C1:552:G:C5	2.82	0.47
1:C1:585:A:H2'	1:C1:586:G:C8	2.50	0.47
1:C1:812:A:C6	1:C1:859:A:C5	3.02	0.47
1:C1:841:U:O4	1:C1:842:C:C4	2.67	0.47
1:C1:868:G:H2'	1:C1:868:G:N3	2.29	0.47
1:C1:869:A:C4	1:C1:870:C:C6	3.02	0.47
1:C1:1024:U:O2'	1:C1:1025:A:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1043:A:C6	1:C1:1044:U:O4	2.68	0.47
1:C1:1076:A:N7	1:C1:1077:C:C5	2.83	0.47
1:C1:1109:G:C6	1:C1:1137:A:N6	2.83	0.47
1:C1:1138:A:C2'	1:C1:1139:A:O5'	2.63	0.47
1:C1:1139:A:H2'	1:C1:1140:G:C5'	2.44	0.47
1:C1:1142:A:H2'	1:C1:1143:A:O4'	2.15	0.47
1:C1:1285:U:C2	1:C1:1286:U:H5	2.32	0.47
1:C1:1296:A:H2'	1:C1:1297:G:C5'	2.42	0.47
1:C1:1323:C:H2'	1:C1:1323:C:O2	2.15	0.47
1:C1:1349:G:C4'	1:C1:1350:U:C5'	2.92	0.47
1:C1:1431:C:H3'	1:C1:1432:U:H5'	1.96	0.47
1:C1:1456:C:H5"	1:C1:1457:C:H5'	1.94	0.47
1:C1:1605:G:H2'	1:C1:1606:C:C5'	2.45	0.47
1:C1:1613:U:O2	1:C1:1614:A:H5"	2.15	0.47
1:C1:1683:C:H3'	1:C1:1683:C:P	2.55	0.47
1:C1:1717:G:C6	1:C1:1718:G:C2	3.02	0.47
1:C1:1727:G:C2	1:C1:1728:A:C6	3.03	0.47
1:C1:1733:C:N4	1:C1:1734:U:O4	2.47	0.47
1:C1:1757:G:C4	1:C1:1758:U:C6	3.03	0.47
74:C1:1924:OHX:N6	74:C1:1964:OHX:N2	2.62	0.47
2:CA:175:TYR:C	2:CA:177:LEU:N	2.71	0.47
3:CB:91:ARG:O	3:CB:92:ALA:HB3	2.13	0.47
4:CC:56:GLN:C	4:CC:58:VAL:N	2.65	0.47
4:CC:80:ALA:CB	4:CC:84:ILE:H	2.27	0.47
6:CE:114:TYR:C	6:CE:116:LEU:H	2.22	0.47
6:CE:136:VAL:O	6:CE:137:GLY:C	2.57	0.47
8:CG:36:GLN:C	8:CG:39:LYS:H	2.23	0.47
11:CJ:106:LYS:O	11:CJ:108:ALA:N	2.47	0.47
17:CP:127:VAL:CA	17:CP:128:SER:C	2.87	0.47
21:CT:42:LEU:O	21:CT:60:SER:CA	2.62	0.47
21:CT:118:LYS:O	21:CT:119:ALA:HB2	2.14	0.47
23:Cb:118:UNK:O	23:Cb:119:UNK:CB	2.60	0.47
23:Cb:132:UNK:CA	23:Cb:133:UNK:CB	2.93	0.47
28:Ch:20:UNK:O	28:Ch:24:UNK:N	2.48	0.47
29:D1:26:A:C3'	29:D1:27:C:H6	2.28	0.47
29:D1:43:A:C4'	29:D1:43:A:OP1	2.63	0.47
29:D1:44:U:C6	29:D1:45:A:C8	3.02	0.47
29:D1:49:A:C2	29:D1:279:U:H4'	2.49	0.47
29:D1:198:A:C2	29:D1:219:A:N7	2.83	0.47
29:D1:211:A:O4'	29:D1:229:G:H1'	2.15	0.47
29:D1:237:G:O2'	29:D1:238:A:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:264:G:C2	29:D1:265:A:C5	3.02	0.47
29:D1:393:U:O2	29:D1:393:U:C2'	2.62	0.47
29:D1:420:G:N3	29:D1:2384:A:N3	2.62	0.47
29:D1:423:A:C6	29:D1:424:G:N1	2.82	0.47
29:D1:432:G:C4	29:D1:433:A:C8	3.03	0.47
29:D1:505:G:N7	29:D1:506:U:C5	2.83	0.47
29:D1:520:U:C1'	29:D1:521:A:OP2	2.62	0.47
29:D1:545:U:O2'	29:D1:546:C:C6	2.61	0.47
29:D1:563:U:H2'	29:D1:564:G:C4'	2.40	0.47
29:D1:563:U:C2	29:D1:564:G:C1'	2.98	0.47
29:D1:606:C:C5	29:D1:607:A:C5	3.02	0.47
29:D1:651:G:N1	29:D1:652:G:C6	2.83	0.47
29:D1:665:A:H2'	29:D1:666:A:O4'	2.15	0.47
29:D1:743:C:H5	29:D1:744:A:C8	2.31	0.47
29:D1:759:U:H2'	29:D1:760:G:C5'	2.43	0.47
29:D1:787:G:H2'	29:D1:788:C:H6	1.79	0.47
29:D1:824:C:H2'	29:D1:825:U:H6	1.75	0.47
29:D1:826:G:N2	29:D1:1589:A:N6	2.59	0.47
29:D1:856:G:N1	29:D1:857:G:N2	2.63	0.47
29:D1:956:U:C2'	29:D1:957:C:O5'	2.62	0.47
29:D1:958:C:C2	29:D1:964:G:N2	2.82	0.47
29:D1:983:A:C2	29:D1:985:U:O4	2.67	0.47
29:D1:1002:A:N6	29:D1:1051:U:C5	2.83	0.47
29:D1:1035:G:H2'	29:D1:1036:A:H5'	1.97	0.47
29:D1:1046:A:H2'	29:D1:1049:C:C5	2.49	0.47
29:D1:1056:U:C6	29:D1:1056:U:H3'	2.49	0.47
29:D1:1080:A:O2'	29:D1:1081:U:O5'	2.32	0.47
29:D1:1107:C:H2'	29:D1:1108:U:C6	2.48	0.47
29:D1:1150:A:C2'	29:D1:1151:U:O5'	2.63	0.47
29:D1:1202:A:C6	29:D1:1301:A:N3	2.82	0.47
29:D1:1232:C:C5	29:D1:1261:G:C4	3.02	0.47
29:D1:1278:A:C2'	29:D1:1279:C:H5'	2.45	0.47
29:D1:1295:G:C2'	29:D1:1296:C:H5'	2.44	0.47
29:D1:1337:A:N3	29:D1:1338:C:C6	2.83	0.47
29:D1:1377:G:N3	29:D1:1378:U:C6	2.82	0.47
29:D1:1379:G:C6	29:D1:1428:A:C2	3.03	0.47
29:D1:1395:G:C5	29:D1:1396:C:C5	3.03	0.47
29:D1:1440:G:C2'	29:D1:1441:G:H5'	2.44	0.47
29:D1:1528:G:C6	29:D1:1833:G:O6	2.68	0.47
29:D1:1562:C:H2'	29:D1:1563:C:H6	1.80	0.47
29:D1:1583:A:C2'	29:D1:1584:U:O5'	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1604:G:C8	29:D1:1605:A:H5”	2.42	0.47
29:D1:1622:U:H2’	29:D1:1623:G:H8	1.80	0.47
29:D1:1657:C:O2’	29:D1:1797:A:OP2	2.28	0.47
29:D1:1687:U:P	29:D1:1687:U:C6	3.02	0.47
29:D1:1695:U:O2	29:D1:1749:A:N1	2.48	0.47
29:D1:1696:A:C2	29:D1:1697:A:C5	3.03	0.47
29:D1:1783:U:H2’	29:D1:1784:G:H8	1.80	0.47
29:D1:1791:C:N3	29:D1:1792:C:N4	2.62	0.47
29:D1:1900:A:N3	29:D1:1906:G:N7	2.63	0.47
29:D1:2180:G:C6	29:D1:2181:C:N4	2.83	0.47
29:D1:2198:A:C4	29:D1:2270:A:C8	3.02	0.47
29:D1:2285:C:H41	29:D1:2286:U:H3	1.61	0.47
29:D1:2308:C:C4	29:D1:2309:A:C6	3.03	0.47
29:D1:2362:C:C4	29:D1:2376:G:O6	2.60	0.47
29:D1:2407:C:C2	29:D1:2815:G:C2	3.02	0.47
29:D1:2520:A:C6	29:D1:2521:U:O4	2.67	0.47
29:D1:2592:G:C6	74:D1:3463:OHX:N4	2.82	0.47
29:D1:2667:A:N3	29:D1:2667:A:C2’	2.77	0.47
29:D1:2675:C:N4	29:D1:2676:A:N6	2.56	0.47
29:D1:2681:U:H6	29:D1:2681:U:H2’	1.07	0.47
29:D1:2696:A:H8	29:D1:2696:A:H3’	1.80	0.47
29:D1:2707:C:O2’	29:D1:2708:C:C5’	2.63	0.47
29:D1:2725:U:O4	29:D1:2727:A:C2	2.67	0.47
29:D1:2732:G:C6	29:D1:2733:A:C6	3.03	0.47
29:D1:2762:A:H1’	29:D1:2800:G:C6	2.49	0.47
29:D1:2788:C:H2’	29:D1:2789:U:H6	1.80	0.47
29:D1:2815:G:H8	29:D1:2815:G:O5’	1.97	0.47
29:D1:2964:G:C5	29:D1:2966:G:OP2	2.68	0.47
29:D1:3032:A:OP1	29:D1:3032:A:H4’	2.12	0.47
29:D1:3077:A:N6	29:D1:3080:G:C5	2.83	0.47
29:D1:3080:G:C6	29:D1:3081:C:N4	2.82	0.47
29:D1:3110:C:C4	29:D1:3111:U:C5	3.03	0.47
29:D1:3113:A:C2	29:D1:3122:A:C8	3.03	0.47
29:D1:3153:U:OP2	29:D1:3293:U:O2’	2.33	0.47
29:D1:3262:U:O2’	29:D1:3263:G:O4’	2.23	0.47
29:D1:3323:A:N6	29:D1:3324:C:N4	2.63	0.47
29:D1:3327:G:C6	29:D1:3328:G:C5	3.02	0.47
29:D1:3333:G:N3	29:D1:3371:G:N9	2.62	0.47
29:D1:3381:U:C2’	29:D1:3383:G:C4	2.94	0.47
30:D2:66:A:C5	30:D2:67:G:C8	3.02	0.47
30:D2:106:U:C2	30:D2:107:C:C6	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:11:C:C2	31:D3:12:A:C8	3.03	0.47
31:D3:56:G:C2	31:D3:57:C:C6	3.03	0.47
31:D3:64:U:N3	31:D3:97:A:C2	2.83	0.47
31:D3:65:A:C4	31:D3:66:A:C8	3.03	0.47
31:D3:75:G:OP2	31:D3:76:C:OP1	2.33	0.47
31:D3:77:A:H4'	31:D3:78:G:OP1	2.14	0.47
31:D3:78:G:C5	31:D3:79:A:N7	2.83	0.47
31:D3:107:G:C5	31:D3:116:G:O6	2.68	0.47
33:DB:56:ALA:H	62:Dg:53:GLY:HA3	1.79	0.47
33:DB:109:GLU:O	33:DB:110:GLY:O	2.32	0.47
35:DD:54:GLU:C	35:DD:56:ALA:N	2.72	0.47
35:DD:215:ILE:O	35:DD:217:LYS:N	2.48	0.47
35:DD:237:GLN:O	35:DD:239:ALA:N	2.47	0.47
36:DE:43:LYS:H	49:DT:69:LYS:C	2.23	0.47
36:DE:107:ARG:O	36:DE:110:LEU:O	2.33	0.47
36:DE:257:GLU:CA	36:DE:258:LYS:CB	2.93	0.47
37:DF:115:GLU:O	37:DF:117:LYS:N	2.47	0.47
37:DF:131:LYS:C	38:DG:70:LYS:O	2.57	0.47
38:DG:62:ILE:O	38:DG:65:ALA:HB3	2.14	0.47
38:DG:75:TYR:CB	38:DG:76:TYR:CB	2.93	0.47
38:DG:144:ILE:O	38:DG:145:ARG:C	2.58	0.47
39:DH:133:LYS:CB	39:DH:199:ALA:H	2.27	0.47
39:DH:157:VAL:CB	39:DH:160:ILE:HA	2.45	0.47
40:DI:29:GLY:O	40:DI:30:PRO:C	2.57	0.47
40:DI:117:PHE:O	40:DI:119:GLY:N	2.46	0.47
43:DN:107:GLU:C	43:DN:109:ARG:N	2.72	0.47
44:DO:109:ARG:O	44:DO:110:ALA:HB2	2.15	0.47
45:DP:63:ALA:O	45:DP:64:PHE:CB	2.62	0.47
47:DR:149:ALA:HB3	47:DR:150:VAL:HA	1.97	0.47
51:DV:3:VAL:O	51:DV:4:GLU:CB	2.63	0.47
55:DZ:17:VAL:O	55:DZ:20:SER:O	2.33	0.47
57:Db:65:PHE:C	57:Db:67:SER:CB	2.87	0.47
57:Db:89:THR:CB	57:Db:90:LYS:CA	2.93	0.47
60:De:49:MET:O	60:De:50:ASN:C	2.57	0.47
62:Dg:20:SER:O	62:Dg:21:SER:C	2.58	0.47
1:A1:89:G:C4	1:A1:90:C:C5	3.02	0.47
1:A1:98:U:O2	1:A1:98:U:C2'	2.63	0.47
1:A1:129:U:O2'	1:A1:130:C:OP1	2.29	0.47
1:A1:147:A:H2'	1:A1:148:A:H1'	1.97	0.47
1:A1:180:A:C4	1:A1:181:A:N3	2.83	0.47
1:A1:337:G:C5'	1:A1:338:C:C5	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:350:U:O4'	1:A1:352:A:C4	2.67	0.47
1:A1:427:C:C6	1:A1:427:C:H5"	2.41	0.47
1:A1:571:G:N3	1:A1:571:G:C2'	2.78	0.47
1:A1:618:U:H5"	1:A1:1030:A:N1	2.30	0.47
1:A1:743:U:C5	1:A1:809:A:N3	2.82	0.47
1:A1:850:A:C6	1:A1:851:U:C4	3.03	0.47
1:A1:1124:A:C6	1:A1:1125:A:C6	3.03	0.47
1:A1:1235:C:C2	1:A1:1236:A:C8	3.02	0.47
1:A1:1323:C:H2'	1:A1:1324:G:H1'	1.96	0.47
1:A1:1334:U:H2'	1:A1:1334:U:O2	2.14	0.47
1:A1:1355:C:H2'	1:A1:1356:U:H6	1.79	0.47
1:A1:1377:U:O2	1:A1:1378:U:O4'	2.33	0.47
1:A1:1378:U:P	1:A1:1379:C:OP2	2.73	0.47
1:A1:1585:U:O2'	1:A1:1586:A:H5'	2.14	0.47
1:A1:1632:C:O2'	1:A1:1633:A:P	2.73	0.47
1:A1:1720:G:C2'	1:A1:1721:A:C5'	2.92	0.47
1:A1:1749:A:H2'	1:A1:1750:A:O5'	2.14	0.47
1:A1:1780:G:H1'	29:B1:2262:A:O3'	2.15	0.47
1:A1:1797:A:C2	1:A1:1799:U:O4	2.68	0.47
9:AH:64:ALA:HA	9:AH:68:ALA:HB3	1.97	0.47
17:AP:48:HIS:O	17:AP:49:ALA:HB2	2.15	0.47
29:B1:39:A:C8	29:B1:41:G:P	3.07	0.47
29:B1:80:G:C2	29:B1:81:C:C4	3.03	0.47
29:B1:131:C:C4	29:B1:132:C:C6	3.03	0.47
29:B1:151:A:H2'	29:B1:152:U:C5	2.50	0.47
29:B1:151:A:H2'	29:B1:152:U:H5	1.79	0.47
29:B1:157:A:O2'	29:B1:158:G:C5	2.66	0.47
29:B1:170:G:C4	29:B1:171:G:C8	3.03	0.47
29:B1:354:U:OP2	29:B1:364:G:C6	2.68	0.47
29:B1:504:A:C2'	29:B1:505:G:H5'	2.44	0.47
29:B1:577:C:C3'	29:B1:577:C:C6	2.97	0.47
29:B1:606:C:C5	29:B1:607:A:C5	3.03	0.47
29:B1:608:A:H2'	29:B1:609:G:C5'	2.44	0.47
29:B1:846:A:C5	29:B1:847:A:C8	3.02	0.47
29:B1:943:U:H1'	29:B1:1432:C:H6	1.80	0.47
29:B1:1077:U:H3	29:B1:1083:G:N2	2.12	0.47
29:B1:1213:G:C2	29:B1:1293:U:C2	3.03	0.47
29:B1:1224:C:O2'	29:B1:1225:A:C5'	2.63	0.47
29:B1:1349:G:OP2	29:B1:1349:G:C8	2.54	0.47
29:B1:1445:U:H3'	29:B1:1446:A:H8	1.80	0.47
29:B1:1626:U:H3'	29:B1:1627:U:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1717:U:H5"	29:B1:1717:U:H6	1.79	0.47
29:B1:1752:A:OP2	74:B1:3568:OHX:N6	2.48	0.47
29:B1:1880:U:H2'	29:B1:1881:A:O5'	2.15	0.47
29:B1:1945:A:C6	29:B1:2104:A:C6	3.02	0.47
29:B1:2097:U:H2'	29:B1:2098:C:C6	2.50	0.47
29:B1:2403:G:H4'	29:B1:2404:A:OP1	2.13	0.47
29:B1:2655:U:C1'	29:B1:2656:A:C2	2.98	0.47
29:B1:2825:C:H42	29:B1:2864:A:N6	2.12	0.47
29:B1:2900:A:O2'	29:B1:2901:G:C5'	2.63	0.47
29:B1:2960:C:C3'	29:B1:2961:G:H8	2.28	0.47
29:B1:3069:G:C4	29:B1:3070:A:C8	3.03	0.47
29:B1:3226:A:C2'	29:B1:3227:A:H5'	2.45	0.47
29:B1:3348:G:H2'	29:B1:3349:C:O4'	2.14	0.47
29:B1:3377:G:O4'	29:B1:3378:C:H5'	2.15	0.47
29:B1:3379:C:H2'	29:B1:3380:U:O4'	2.13	0.47
29:B1:3384:U:O4	29:B1:3385:U:O4	2.33	0.47
29:B1:3388:C:O5'	29:B1:3388:C:H6	1.96	0.47
30:B2:113:C:C2	30:B2:114:U:C5	3.03	0.47
31:B3:3:A:C8	31:B3:3:A:C3'	2.97	0.47
31:B3:58:G:OP1	31:B3:98:U:N3	2.48	0.47
31:B3:104:A:H8	31:B3:105:A:C8	2.32	0.47
31:B3:140:G:N1	31:B3:141:C:C2	2.83	0.47
31:B3:140:G:O6	31:B3:141:C:N4	2.48	0.47
33:BB:28:LYS:H	33:BB:122:ASP:CB	2.28	0.47
33:BB:195:SER:HA	33:BB:196:TRP:C	2.40	0.47
34:BC:305:ILE:C	34:BC:307:PRO:N	2.73	0.47
35:BD:6:VAL:CB	35:BD:19:ALA:HA	2.45	0.47
36:BE:101:THR:O	36:BE:105:ILE:CB	2.63	0.47
37:BF:43:LEU:O	37:BF:44:ALA:C	2.58	0.47
38:BG:159:GLN:O	38:BG:162:PRO:CB	2.62	0.47
45:BP:130:LYS:CA	45:BP:131:PRO:CB	2.92	0.47
49:BT:56:PHE:C	49:BT:58:GLN:N	2.73	0.47
53:BX:56:VAL:HA	53:BX:107:THR:H	1.79	0.47
56:Ba:13:THR:O	56:Ba:14:ILE:C	2.57	0.47
57:Bb:11:LYS:O	57:Bb:12:LYS:CB	2.63	0.47
63:Bh:39:UNK:O	63:Bh:41:UNK:N	2.48	0.47
65:Bk:14:UNK:C	65:Bk:16:UNK:N	2.77	0.47
1:C1:14:C:OP1	3:CB:163:GLY:C	2.58	0.47
1:C1:85:A:C4	1:C1:86:A:C8	3.03	0.47
1:C1:169:A:C6	1:C1:171:A:C6	3.03	0.47
1:C1:201:G:N1	1:C1:202:A:C2	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:561:G:C6	1:C1:585:A:N1	2.82	0.47
1:C1:722:G:H4'	1:C1:723:G:OP1	2.15	0.47
1:C1:727:U:C2	1:C1:728:U:C5	3.01	0.47
1:C1:838:G:C2	1:C1:839:U:N1	2.83	0.47
1:C1:982:U:H2'	1:C1:983:A:C8	2.49	0.47
1:C1:1165:G:C5	1:C1:1166:A:N7	2.83	0.47
1:C1:1173:C:O2'	1:C1:1174:C:H5'	2.15	0.47
1:C1:1176:G:C4	1:C1:1464:G:C2	3.03	0.47
1:C1:1181:U:C2'	1:C1:1182:U:O5'	2.63	0.47
1:C1:1221:A:C4	1:C1:1222:C:C5	3.03	0.47
1:C1:1269:U:H4'	1:C1:1270:G:C5'	2.43	0.47
1:C1:1270:G:H1'	1:C1:1447:C:O2	2.14	0.47
1:C1:1311:U:H2'	1:C1:1313:A:OP2	2.14	0.47
1:C1:1324:G:N3	1:C1:1324:G:H2'	2.30	0.47
1:C1:1398:U:O2'	1:C1:1399:C:O5'	2.31	0.47
1:C1:1408:G:C1'	1:C1:1409:G:C2	2.98	0.47
1:C1:1486:G:C6	1:C1:1487:A:C5	3.03	0.47
1:C1:1492:A:H1'	1:C1:1493:A:O5'	2.14	0.47
1:C1:1539:G:O2'	1:C1:1540:G:C5'	2.63	0.47
1:C1:1786:G:H2'	1:C1:1787:C:H6	1.73	0.47
5:CD:182:ALA:C	5:CD:184:PHE:N	2.73	0.47
5:CD:182:ALA:C	5:CD:184:PHE:H	2.23	0.47
8:CG:117:LEU:C	8:CG:119:GLU:N	2.65	0.47
9:CH:27:PHE:HA	9:CH:43:THR:CB	2.45	0.47
11:CJ:42:GLU:HA	11:CJ:45:ARG:CB	2.45	0.47
13:CL:76:PRO:C	13:CL:78:HIS:N	2.72	0.47
14:CM:129:GLN:O	14:CM:133:ASP:CB	2.62	0.47
15:CN:31:VAL:O	15:CN:32:LYS:C	2.58	0.47
17:CP:80:GLY:O	17:CP:81:LYS:O	2.32	0.47
21:CT:21:THR:CB	21:CT:36:ALA:O	2.63	0.47
29:D1:37:U:OP1	29:D1:934:G:N2	2.48	0.47
29:D1:48:A:O4'	29:D1:50:U:C6	2.68	0.47
29:D1:195:U:O2	29:D1:196:G:C1'	2.63	0.47
29:D1:268:A:O4'	29:D1:270:U:H1'	2.14	0.47
29:D1:307:A:C8	29:D1:307:A:C3'	2.97	0.47
29:D1:407:A:C5	31:D3:17:A:C4	3.03	0.47
29:D1:415:G:H2'	29:D1:416:A:C8	2.43	0.47
29:D1:501:A:C2	29:D1:613:G:N1	2.82	0.47
29:D1:597:G:N3	29:D1:598:A:C8	2.83	0.47
29:D1:943:U:O4'	29:D1:1432:C:C6	2.67	0.47
29:D1:1158:A:N3	29:D1:1158:A:H2'	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1232:C:N3	29:D1:1261:G:N1	2.63	0.47
29:D1:1286:A:O5'	29:D1:1286:A:C8	2.67	0.47
29:D1:1465:A:N6	29:D1:1466:G:C2	2.83	0.47
29:D1:1503:A:H5"	29:D1:1503:A:H8	1.77	0.47
29:D1:1622:U:H2'	29:D1:1623:G:C8	2.49	0.47
29:D1:1626:U:H3'	29:D1:1627:U:O4'	2.15	0.47
29:D1:1634:G:C5	29:D1:1635:G:N7	2.83	0.47
29:D1:1658:G:C5	29:D1:1659:U:C4	3.02	0.47
29:D1:1890:U:N3	29:D1:1891:A:N7	2.63	0.47
29:D1:1895:A:N6	29:D1:2341:A:N6	2.62	0.47
29:D1:1909:A:C6	29:D1:1910:A:C2	3.03	0.47
29:D1:2117:A:H2'	29:D1:2117:A:N3	2.29	0.47
29:D1:2144:A:N1	29:D1:2281:A:C5	2.83	0.47
29:D1:2211:U:H2'	29:D1:2212:C:C6	2.49	0.47
29:D1:2296:A:N3	29:D1:2919:A:H1'	2.30	0.47
29:D1:2393:G:C5	29:D1:2982:A:C2	3.01	0.47
29:D1:2414:G:O2'	29:D1:2415:C:P	2.73	0.47
29:D1:2444:C:H3'	29:D1:2445:A:H5"	1.97	0.47
29:D1:2610:G:H2'	29:D1:2611:U:C6	2.50	0.47
29:D1:2661:G:H2'	29:D1:2662:G:H8	1.80	0.47
29:D1:2675:C:OP2	29:D1:2676:A:H5"	2.15	0.47
29:D1:2678:A:C8	29:D1:2679:A:N3	2.73	0.47
29:D1:2704:A:C2	29:D1:2706:G:C8	3.03	0.47
29:D1:2895:G:H2'	29:D1:2896:A:H5"	1.95	0.47
29:D1:3011:A:H1'	29:D1:3012:A:C1'	2.44	0.47
29:D1:3096:C:C2	29:D1:3097:C:C5	3.03	0.47
29:D1:3315:G:H4'	29:D1:3319:U:H4'	1.96	0.47
29:D1:3347:A:C5	29:D1:3348:G:N7	2.83	0.47
30:D2:67:G:C6	30:D2:68:C:C2	3.03	0.47
30:D2:112:G:OP2	74:D2:207:OHX:N6	2.48	0.47
31:D3:65:A:N6	31:D3:66:A:N6	2.62	0.47
31:D3:70:G:C5'	31:D3:71:A:C8	2.91	0.47
31:D3:82:U:O3'	31:D3:83:C:O4'	2.32	0.47
33:DB:121:GLY:O	33:DB:122:ASP:C	2.58	0.47
36:DE:141:PRO:HA	36:DE:143:LYS:N	2.29	0.47
38:DG:33:ARG:O	38:DG:36:ALA:HB3	2.15	0.47
38:DG:39:GLU:O	38:DG:40:LYS:C	2.57	0.47
39:DH:99:PRO:CB	39:DH:237:ILE:N	2.65	0.47
40:DI:19:SER:N	40:DI:26:LYS:O	2.35	0.47
41:DJ:215:GLU:C	41:DJ:217:PHE:H	2.21	0.47
42:DK:155:THR:O	42:DK:156:LYS:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:DM:5:ARG:C	73:DM:7:LYS:N	2.73	0.47
47:DR:145:ASN:CA	47:DR:146:SER:CB	2.92	0.47
47:DR:145:ASN:HA	47:DR:146:SER:CB	2.45	0.47
54:DY:37:GLY:C	54:DY:39:HIS:H	2.22	0.47
62:Dg:73:THR:CB	62:Dg:76:ALA:HB3	2.45	0.47
65:Dk:19:UNK:O	65:Dk:20:UNK:C	2.63	0.47
1:A1:55:A:C2	1:A1:403:G:C5	3.03	0.47
1:A1:188:A:N9	1:A1:198:A:N6	2.63	0.47
1:A1:315:A:C5	1:A1:350:U:C5	2.97	0.47
1:A1:408:C:O2	1:A1:1731:A:O2'	2.31	0.47
1:A1:563:U:C4	1:A1:564:G:C6	3.02	0.47
1:A1:648:G:N1	1:A1:649:U:C5	2.83	0.47
1:A1:714:G:N3	1:A1:715:U:H1'	2.29	0.47
1:A1:789:A:C5	1:A1:790:U:C5	3.03	0.47
1:A1:813:U:O2'	1:A1:814:A:P	2.73	0.47
1:A1:885:G:H5"	1:A1:886:U:OP2	2.14	0.47
1:A1:919:A:H2'	1:A1:920:U:C6	2.50	0.47
1:A1:952:A:C2	1:A1:953:G:C8	3.03	0.47
1:A1:975:C:N4	1:A1:976:G:C6	2.83	0.47
1:A1:1062:A:C2	1:A1:1063:U:H1'	2.50	0.47
1:A1:1122:G:N2	1:A1:1126:G:C6	2.83	0.47
1:A1:1200:G:O3'	1:A1:1201:G:O4'	2.33	0.47
1:A1:1250:U:O2	1:A1:1251:U:C2	2.68	0.47
1:A1:1370:U:H2'	1:A1:1371:A:O5'	2.14	0.47
1:A1:1374:C:C4	1:A1:1375:A:N1	2.82	0.47
1:A1:1469:A:H2'	1:A1:1470:C:C6	2.50	0.47
1:A1:1528:U:H2'	1:A1:1529:C:H6	1.78	0.47
1:A1:1575:G:C5'	1:A1:1576:A:OP2	2.62	0.47
1:A1:1650:U:C2'	1:A1:1651:A:C8	2.98	0.47
2:AA:8:ASP:O	2:AA:11:PRO:N	2.47	0.47
5:AD:44:ASN:C	5:AD:46:TRP:H	2.21	0.47
6:AE:114:TYR:C	6:AE:116:LEU:H	2.23	0.47
10:AI:109:PRO:O	10:AI:110:GLU:C	2.58	0.47
11:AJ:18:ALA:HB3	11:AJ:84:ALA:HB2	1.96	0.47
11:AJ:54:LEU:O	11:AJ:56:GLY:N	2.47	0.47
13:AL:105:VAL:O	13:AL:106:GLU:C	2.57	0.47
21:AT:74:THR:O	21:AT:77:GLY:N	2.47	0.47
21:AT:95:ALA:C	21:AT:97:GLY:N	2.73	0.47
29:B1:14:U:C4'	29:B1:15:C:OP2	2.44	0.47
29:B1:130:A:C2	29:B1:139:G:C4	3.03	0.47
29:B1:195:U:O2	29:B1:196:G:H1'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:223:U:OP1	29:B1:225:C:N4	2.47	0.47
29:B1:420:G:C4	29:B1:2384:A:C2	3.02	0.47
29:B1:500:C:C2'	29:B1:501:A:H5'	2.44	0.47
29:B1:536:U:H4'	29:B1:537:A:H5"	1.97	0.47
29:B1:550:A:C6	29:B1:551:A:C6	3.03	0.47
29:B1:743:C:C5	29:B1:744:A:C8	3.03	0.47
29:B1:776:U:O5'	29:B1:777:U:H5"	2.15	0.47
29:B1:939:U:H5'	29:B1:939:U:H6	1.80	0.47
29:B1:1000:C:H5'	74:B1:3481:OHX:N6	2.30	0.47
29:B1:1148:G:C6	29:B1:1149:G:N7	2.83	0.47
29:B1:1220:U:OP1	29:B1:1223:A:O2'	2.16	0.47
29:B1:1244:A:C6	29:B1:1248:C:H1'	2.50	0.47
29:B1:1329:U:HO2'	29:B1:1330:A:P	2.38	0.47
29:B1:1406:A:H2	29:B1:1407:A:C2	2.33	0.47
29:B1:1416:C:O2	29:B1:1417:G:C4	2.68	0.47
29:B1:1428:A:C6	29:B1:1430:U:C4	3.02	0.47
29:B1:1555:U:H5"	29:B1:1580:A:C2	2.50	0.47
29:B1:1564:U:H2'	29:B1:1565:G:O4'	2.14	0.47
29:B1:1687:U:H2'	29:B1:1688:U:O2'	2.14	0.47
29:B1:1693:C:O2	29:B1:1773:C:C5	2.68	0.47
29:B1:1884:A:N3	29:B1:1885:U:O2	2.48	0.47
29:B1:2149:A:C2'	29:B1:2150:G:O5'	2.63	0.47
29:B1:2249:G:C1'	29:B1:2272:G:C8	2.97	0.47
29:B1:2316:G:N1	29:B1:2317:A:C5	2.83	0.47
29:B1:2628:A:O4'	29:B1:2798:C:C5	2.67	0.47
29:B1:2642:A:N3	29:B1:2642:A:H2'	2.30	0.47
29:B1:2923:U:H2'	29:B1:2924:U:C6	2.49	0.47
29:B1:2966:G:C6	29:B1:2967:A:C6	3.03	0.47
29:B1:2986:U:C2	29:B1:2987:A:C8	3.03	0.47
29:B1:3000:A:C2	29:B1:3001:C:C5	3.03	0.47
29:B1:3026:G:C2	29:B1:3030:G:O6	2.67	0.47
29:B1:3086:A:C2'	29:B1:3087:A:H8	2.27	0.47
29:B1:3211:C:O2'	29:B1:3212:C:O5'	2.33	0.47
29:B1:3327:G:N1	29:B1:3379:C:C4	2.82	0.47
30:B2:27:A:H3'	30:B2:28:C:H6	1.80	0.47
30:B2:56:A:O2'	42:BK:149:GLY:N	2.48	0.47
30:B2:60:G:C2	30:B2:61:G:C8	3.03	0.47
30:B2:75:G:P	74:B2:201:OHX:N6	2.88	0.47
31:B3:17:A:H2'	31:B3:18:U:C6	2.41	0.47
31:B3:41:A:C5'	31:B3:42:G:OP2	2.63	0.47
31:B3:56:G:C4	31:B3:57:C:C6	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:78:G:H5'	60:Be:31:THR:CB	2.44	0.47
31:B3:95:G:C5'	59:Bd:72:ARG:HA	2.45	0.47
31:B3:138:A:C2	31:B3:139:U:N1	2.81	0.47
36:BE:80:SER:C	36:BE:82:GLU:H	2.22	0.47
36:BE:150:LEU:O	36:BE:151:GLN:C	2.57	0.47
37:BF:64:LEU:HA	37:BF:78:ARG:HA	1.97	0.47
40:BI:44:THR:O	40:BI:45:PHE:C	2.55	0.47
40:BI:174:LYS:O	40:BI:176:LEU:N	2.48	0.47
42:BK:55:ARG:O	42:BK:56:THR:C	2.58	0.47
43:BN:58:ILE:CB	43:BN:59:ASN:CB	2.92	0.47
45:BP:154:ALA:O	45:BP:157:GLU:CB	2.63	0.47
47:BR:77:ALA:C	47:BR:79:LYS:N	2.66	0.47
47:BR:108:ALA:O	47:BR:110:ALA:N	2.48	0.47
52:BW:132:ALA:C	52:BW:134:ASP:N	2.72	0.47
59:Bd:22:CYS:CB	74:Bd:101:OHX:N1	2.77	0.47
59:Bd:68:LYS:C	59:Bd:70:VAL:N	2.71	0.47
67:Bm:8:UNK:O	67:Bm:10:UNK:N	2.48	0.47
1:C1:20:G:H4'	1:C1:571:G:N1	2.30	0.47
1:C1:125:U:C4'	1:C1:126:A:OP1	2.63	0.47
1:C1:217:A:C1'	1:C1:218:A:P	3.03	0.47
1:C1:333:A:C2	1:C1:334:G:N3	2.83	0.47
1:C1:387:A:C2	1:C1:426:G:OP2	2.68	0.47
1:C1:391:A:H4'	1:C1:1730:A:H4'	1.96	0.47
1:C1:492:A:C6	1:C1:494:U:H5"	2.50	0.47
1:C1:747:C:C4	1:C1:748:U:C4	3.03	0.47
1:C1:865:A:N1	1:C1:965:U:O4	2.48	0.47
1:C1:1131:A:C2	1:C1:1132:A:C4	3.03	0.47
1:C1:1437:U:O2	1:C1:1437:U:H2'	2.15	0.47
1:C1:1475:A:C4	1:C1:1476:C:C6	3.02	0.47
1:C1:1478:G:C2	1:C1:1479:A:C4	3.02	0.47
1:C1:1520:U:O4	74:C1:1930:OHX:N3	2.47	0.47
1:C1:1691:A:N6	1:C1:1713:G:C2	2.83	0.47
1:C1:1736:G:O2'	1:C1:1737:G:H5'	2.15	0.47
1:C1:1753:A:N6	1:C1:1754:A:C6	2.73	0.47
1:C1:1791:A:O2'	1:C1:1793:G:C5'	2.55	0.47
2:CA:42:PRO:O	2:CA:43:ASP:C	2.57	0.47
2:CA:65:ALA:O	2:CA:67:ILE:N	2.48	0.47
2:CA:90:ALA:HB1	2:CA:95:ALA:O	2.15	0.47
3:CB:107:SER:CA	3:CB:190:LEU:O	2.63	0.47
4:CC:57:ASP:C	4:CC:59:LEU:N	2.73	0.47
4:CC:133:GLY:HA3	4:CC:155:GLY:HA3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:156:PHE:O	4:CC:157:LEU:CB	2.62	0.47
9:CH:21:ALA:CB	9:CH:26:THR:HA	2.44	0.47
10:CI:17:TYR:CB	10:CI:18:ARG:CA	2.92	0.47
13:CL:44:ASN:O	13:CL:45:LEU:C	2.58	0.47
14:CM:15:ILE:O	14:CM:17:ALA:N	2.48	0.47
15:CN:119:ALA:HB1	15:CN:120:SER:CA	2.44	0.47
20:CS:21:CYS:O	20:CS:22:ARG:C	2.58	0.47
21:CT:95:ALA:C	21:CT:97:GLY:N	2.73	0.47
29:D1:72:C:C3'	29:D1:73:C:C5'	2.82	0.47
29:D1:83:U:H2'	29:D1:84:U:C5'	2.45	0.47
29:D1:208:C:H2'	29:D1:209:A:O5'	2.14	0.47
29:D1:319:A:H1'	44:DO:50:ARG:O	2.15	0.47
29:D1:559:A:HO2'	29:D1:560:G:P	2.38	0.47
29:D1:565:U:C6	29:D1:565:U:OP2	2.67	0.47
29:D1:761:A:N6	29:D1:770:G:H22	2.13	0.47
29:D1:876:A:O2'	29:D1:877:C:H5'	2.15	0.47
29:D1:878:G:H2'	29:D1:2980:U:HO2'	1.80	0.47
29:D1:944:C:OP1	29:D1:1432:C:H5'	2.15	0.47
29:D1:974:G:C6	29:D1:975:C:C5	3.03	0.47
29:D1:1202:A:C6	29:D1:1301:A:C4	3.03	0.47
29:D1:1276:U:C2	29:D1:1277:C:C5	3.03	0.47
29:D1:1397:C:C4	29:D1:1398:U:O4	2.68	0.47
29:D1:1560:G:C6	29:D1:1579:C:C2	3.01	0.47
29:D1:1573:G:H3'	29:D1:1574:C:C6	2.49	0.47
29:D1:1913:A:C2	29:D1:2120:A:C8	3.03	0.47
29:D1:1921:A:N7	29:D1:1932:A:C5	2.83	0.47
29:D1:2179:C:O2	33:DB:129:ALA:CB	2.63	0.47
29:D1:2310:U:O2'	29:D1:2311:G:H5'	2.15	0.47
29:D1:2342:U:O2'	29:D1:2343:C:C5'	2.63	0.47
29:D1:2680:A:C6	42:DK:55:ARG:C	2.93	0.47
29:D1:2680:A:H3'	29:D1:2680:A:H8	1.78	0.47
29:D1:2720:G:C4	29:D1:2721:A:C8	3.03	0.47
29:D1:2773:C:N3	29:D1:2774:C:C5	2.83	0.47
29:D1:2837:A:H2'	29:D1:2845:A:C6	2.48	0.47
30:D2:26:C:C6	30:D2:26:C:O5'	2.67	0.47
30:D2:36:C:H42	30:D2:42:A:H61	1.63	0.47
30:D2:72:A:C4	30:D2:73:C:C5	3.03	0.47
30:D2:94:C:H2'	30:D2:95:A:C8	2.45	0.47
31:D3:9:A:H3'	31:D3:10:A:H8	1.79	0.47
31:D3:69:U:OP2	74:D3:209:OHX:N3	2.48	0.47
31:D3:74:U:H1'	31:D3:89:A:C5	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:77:A:H62	53:DX:72:SER:C	2.23	0.47
31:D3:92:A:H2'	31:D3:93:U:C5'	2.42	0.47
33:DB:15:ILE:O	33:DB:16:PHE:CB	2.63	0.47
35:DD:98:ARG:C	35:DD:99:MET:O	2.57	0.47
35:DD:190:GLY:C	35:DD:192:GLY:H	2.23	0.47
40:DI:55:VAL:O	40:DI:56:ALA:HB3	2.15	0.47
42:DK:39:GLN:C	42:DK:41:SER:H	2.21	0.47
72:DL:16:ARG:O	72:DL:17:ALA:CB	2.62	0.47
72:DL:63:LYS:H	72:DL:70:ALA:HB3	1.79	0.47
45:DP:47:PHE:O	45:DP:49:ARG:N	2.48	0.47
45:DP:84:LEU:O	45:DP:87:MET:N	2.48	0.47
46:DQ:28:ASN:O	46:DQ:29:THR:C	2.54	0.47
46:DQ:128:ARG:CA	46:DQ:138:LYS:HA	2.43	0.47
48:DS:8:LYS:O	48:DS:9:ARG:C	2.58	0.47
54:DY:72:VAL:C	54:DY:74:ASN:N	2.69	0.47
1:A1:184:C:N4	1:A1:202:A:N1	2.62	0.47
1:A1:198:A:C2	1:A1:199:G:N3	2.83	0.47
1:A1:206:A:H2'	1:A1:207:U:O4'	2.15	0.47
1:A1:557:G:OP1	1:A1:558:U:O4'	2.33	0.47
1:A1:635:A:C4	1:A1:863:A:C5	3.03	0.47
1:A1:863:A:O2'	1:A1:865:A:H5"	2.15	0.47
1:A1:1109:G:C5	1:A1:1137:A:N6	2.83	0.47
1:A1:1218:G:C6	1:A1:1444:A:H8	2.33	0.47
1:A1:1320:U:O2	1:A1:1322:A:H5'	2.15	0.47
1:A1:1330:G:C5	1:A1:1331:A:N7	2.83	0.47
1:A1:1511:U:H2'	1:A1:1512:G:H8	1.77	0.47
1:A1:1585:U:H5	1:A1:1610:G:N2	2.12	0.47
1:A1:1631:A:N3	1:A1:1632:C:H1'	2.30	0.47
1:A1:1705:C:H3'	1:A1:1706:C:H5'	1.97	0.47
1:A1:1786:G:H2'	1:A1:1787:C:H6	1.78	0.47
2:AA:13:ASP:C	2:AA:17:LEU:C	2.83	0.47
3:AB:82:ASN:O	3:AB:100:ALA:HB1	2.15	0.47
3:AB:206:THR:O	3:AB:207:LEU:C	2.57	0.47
5:AD:166:ARG:O	5:AD:169:ASN:N	2.48	0.47
14:AM:29:GLU:O	14:AM:30:VAL:C	2.58	0.47
16:AO:23:ARG:O	16:AO:24:GLN:O	2.32	0.47
29:B1:9:U:N3	29:B1:10:C:C6	2.83	0.47
29:B1:92:G:N7	29:B1:94:G:C2	2.83	0.47
29:B1:184:U:H2'	29:B1:185:C:H6	1.80	0.47
29:B1:264:G:H3'	29:B1:265:A:N7	2.27	0.47
29:B1:350:C:N3	29:B1:367:A:H2'	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:384:A:C4	29:B1:1465:A:C6	3.03	0.47
29:B1:407:A:C8	29:B1:407:A:O5'	2.68	0.47
29:B1:428:A:H3'	29:B1:428:A:C8	2.50	0.47
29:B1:560:G:H2'	29:B1:561:C:C6	2.47	0.47
29:B1:561:C:H2'	29:B1:562:C:C5	2.50	0.47
29:B1:617:G:C2'	29:B1:618:C:O5'	2.62	0.47
29:B1:652:G:C2	29:B1:2361:A:O4'	2.68	0.47
29:B1:776:U:C5	29:B1:777:U:H1'	2.50	0.47
29:B1:821:U:H2'	29:B1:822:G:H5'	1.96	0.47
29:B1:908:G:C8	29:B1:925:A:C4	3.03	0.47
29:B1:950:G:O5'	29:B1:950:G:C8	2.66	0.47
29:B1:967:A:H2'	29:B1:967:A:N3	2.30	0.47
29:B1:976:U:C4	29:B1:977:C:N4	2.82	0.47
29:B1:1106:G:C6	29:B1:1107:C:C4	3.03	0.47
29:B1:1230:G:OP1	29:B1:1275:C:H5'	2.15	0.47
29:B1:1266:G:H2'	29:B1:1267:U:H5'	1.96	0.47
29:B1:1358:C:O2	29:B1:1358:C:C2'	2.60	0.47
29:B1:1359:C:O2	29:B1:1359:C:C2'	2.63	0.47
29:B1:1414:G:H2'	29:B1:1415:U:C6	2.49	0.47
29:B1:1506:A:N6	29:B1:1513:G:C6	2.83	0.47
29:B1:1519:G:C2	29:B1:1520:G:C8	3.03	0.47
29:B1:1535:A:H3'	29:B1:1536:G:O4'	2.15	0.47
29:B1:1793:C:C2	33:BB:173:GLY:O	2.68	0.47
29:B1:1953:G:N2	29:B1:2092:A:C5	2.83	0.47
29:B1:2141:U:H6	29:B1:2141:U:H2'	1.45	0.47
29:B1:2253:G:H3'	29:B1:2254:U:H6	1.74	0.47
29:B1:2282:U:H5'	29:B1:2282:U:H6	1.80	0.47
29:B1:2357:A:O2'	29:B1:2358:A:H5'	2.15	0.47
29:B1:2361:A:N7	29:B1:2362:C:C5	2.83	0.47
29:B1:2362:C:H2'	29:B1:2363:A:O4'	2.14	0.47
29:B1:2367:A:C6	29:B1:2381:G:N1	2.83	0.47
29:B1:2594:C:H2'	29:B1:2595:A:H8	1.72	0.47
29:B1:2631:U:C2	29:B1:2648:G:N2	2.83	0.47
29:B1:2639:G:N3	29:B1:2640:A:C8	2.83	0.47
29:B1:2707:C:O2'	29:B1:2708:C:C5'	2.63	0.47
29:B1:2750:U:H2'	29:B1:2751:G:C8	2.49	0.47
29:B1:2788:C:H2'	29:B1:2789:U:H6	1.79	0.47
29:B1:2896:A:H2'	29:B1:2897:A:H5"	1.96	0.47
29:B1:2898:G:OP2	29:B1:2899:C:H5'	2.15	0.47
29:B1:3036:G:C2	29:B1:3037:U:C6	3.03	0.47
29:B1:3040:A:C2'	29:B1:3041:U:H5'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3049:A:C5'	29:B1:3050:U:OP2	2.63	0.47
29:B1:3214:U:O2'	29:B1:3218:A:OP2	2.21	0.47
29:B1:3320:A:C4	29:B1:3321:C:C4	3.03	0.47
29:B1:3324:C:C2	29:B1:3325:G:C8	3.02	0.47
29:B1:3345:G:H8	29:B1:3345:G:O5'	1.98	0.47
30:B2:22:A:C2'	30:B2:23:A:O5'	2.63	0.47
31:B3:8:C:C2	31:B3:9:A:C8	3.03	0.47
31:B3:91:C:O5'	31:B3:91:C:H6	1.98	0.47
31:B3:108:C:H2'	31:B3:109:A:O5'	2.15	0.47
33:BB:78:ALA:HA	33:BB:168:VAL:HA	1.95	0.47
34:BC:261:MET:HA	34:BC:263:SER:O	2.15	0.47
34:BC:291:GLU:O	34:BC:292:ALA:C	2.58	0.47
35:BD:10:SER:CA	35:BD:17:ALA:H	2.26	0.47
35:BD:15:ALA:O	35:BD:16:THR:O	2.32	0.47
35:BD:190:GLY:C	35:BD:192:GLY:N	2.72	0.47
36:BE:289:LYS:C	36:BE:291:ALA:N	2.72	0.47
37:BF:157:GLN:C	37:BF:159:LEU:N	2.65	0.47
38:BG:84:VAL:O	38:BG:86:VAL:N	2.47	0.47
39:BH:185:ARG:O	39:BH:188:THR:N	2.47	0.47
41:BJ:151:GLY:O	41:BJ:152:LEU:C	2.58	0.47
43:BN:11:ASN:CB	43:BN:64:VAL:HA	2.44	0.47
47:BR:63:SER:O	47:BR:66:ARG:N	2.48	0.47
47:BR:99:THR:O	47:BR:119:GLY:HA3	2.15	0.47
49:BT:77:ASN:CA	49:BT:87:LYS:O	2.61	0.47
55:BZ:76:GLU:O	55:BZ:78:GLY:N	2.47	0.47
56:Ba:14:ILE:CB	56:Ba:71:LEU:N	2.78	0.47
59:Bd:59:THR:C	59:Bd:61:THR:N	2.60	0.47
1:C1:133:U:H2'	1:C1:133:U:O2	2.13	0.47
1:C1:225:A:C2	1:C1:226:A:C4	3.03	0.47
1:C1:403:G:H8	1:C1:403:G:O5'	1.98	0.47
1:C1:578:U:H5"	1:C1:578:U:H6	1.79	0.47
1:C1:647:G:H4'	1:C1:647:G:OP1	2.15	0.47
1:C1:716:C:N4	1:C1:723:G:C5	2.84	0.47
1:C1:772:G:C5	1:C1:773:C:N4	2.83	0.47
1:C1:1015:U:H5"	1:C1:1016:C:OP2	2.15	0.47
1:C1:1133:A:C2	1:C1:1134:C:H1'	2.50	0.47
1:C1:1203:A:C5	1:C1:1555:A:N1	2.83	0.47
1:C1:1219:A:C5'	1:C1:1220:C:C5	2.89	0.47
1:C1:1239:U:C5	1:C1:1241:G:C5	3.02	0.47
1:C1:1392:U:C6	1:C1:1392:U:C5'	2.98	0.47
1:C1:1455:G:C2	1:C1:1456:C:O2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1470:C:OP1	1:C1:1471:A:H1'	2.15	0.47
1:C1:1520:U:C4	74:C1:1930:OHX:N4	2.83	0.47
1:C1:1612:U:C3'	1:C1:1613:U:H5"	2.45	0.47
1:C1:1684:U:C4	1:C1:1721:A:C2	2.97	0.47
1:C1:1778:G:C2	1:C1:1779:U:C6	3.03	0.47
3:CB:55:GLU:O	3:CB:56:ILE:C	2.57	0.47
8:CG:69:ASN:O	8:CG:70:LYS:C	2.58	0.47
21:CT:267:PRO:C	21:CT:269:TYR:N	2.73	0.47
23:Cb:47:UNK:O	23:Cb:51:UNK:N	2.48	0.47
23:Cb:75:UNK:O	23:Cb:77:UNK:N	2.48	0.47
25:Cd:103:UNK:O	25:Cd:104:UNK:C	2.63	0.47
29:D1:107:A:C2	29:D1:108:A:C4	3.02	0.47
29:D1:155:G:O4'	29:D1:156:G:O5'	2.33	0.47
29:D1:191:U:H2'	29:D1:192:C:H6	1.80	0.47
29:D1:197:G:OP1	29:D1:197:G:H8	1.98	0.47
29:D1:222:A:C5	29:D1:223:U:C4	3.03	0.47
29:D1:266:A:O2'	29:D1:267:G:OP2	2.28	0.47
29:D1:347:G:C2	29:D1:353:G:N7	2.82	0.47
29:D1:353:G:OP1	29:D1:353:G:H4'	2.14	0.47
29:D1:397:A:N6	29:D1:400:G:N1	2.63	0.47
29:D1:520:U:H1'	29:D1:521:A:OP2	2.15	0.47
29:D1:607:A:N6	29:D1:608:A:C6	2.83	0.47
29:D1:808:A:C6	29:D1:809:G:C5	3.03	0.47
29:D1:992:A:C6	29:D1:993:G:N7	2.82	0.47
29:D1:1119:C:H1'	29:D1:1154:A:C2	2.50	0.47
29:D1:1172:G:H2'	29:D1:1173:U:O5'	2.15	0.47
29:D1:1225:A:C2'	29:D1:1225:A:N3	2.78	0.47
29:D1:1347:U:C3'	29:D1:1348:U:C5	2.98	0.47
29:D1:1468:A:O2'	29:D1:1469:C:H5'	2.15	0.47
29:D1:1654:A:HO2'	29:D1:1655:G:P	2.38	0.47
29:D1:1658:G:C2	29:D1:1796:G:O6	2.67	0.47
29:D1:1730:G:O6	55:DZ:26:GLY:HA2	2.15	0.47
29:D1:1768:U:C2	29:D1:1769:G:C8	3.03	0.47
29:D1:2112:U:C1'	29:D1:2113:A:P	3.03	0.47
29:D1:2299:A:C4	29:D1:2300:G:H8	2.33	0.47
29:D1:2386:A:C5	29:D1:2994:A:C2	3.02	0.47
29:D1:2419:A:C5	29:D1:2804:A:N7	2.82	0.47
29:D1:2628:A:C6	29:D1:2629:U:C6	3.03	0.47
29:D1:2730:G:C5	29:D1:2731:U:C5	3.02	0.47
29:D1:2882:U:H2'	29:D1:2883:U:H5'	1.96	0.47
29:D1:2902:A:H5"	29:D1:3032:A:O2'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2992:U:C6	29:D1:2992:U:C3'	2.98	0.47
29:D1:3050:U:H5"	29:D1:3051:U:OP2	2.15	0.47
29:D1:3055:U:O3'	29:D1:3056:U:C6	2.68	0.47
29:D1:3137:C:H3'	29:D1:3138:U:C6	2.50	0.47
29:D1:3284:G:C4	29:D1:3285:C:C5	3.03	0.47
30:D2:22:A:H2'	30:D2:23:A:O5'	2.15	0.47
30:D2:77:G:C1'	30:D2:78:U:OP2	2.61	0.47
31:D3:7:U:C4	31:D3:8:C:N4	2.83	0.47
35:DD:193:LYS:C	35:DD:195:ARG:N	2.72	0.47
38:DG:193:PRO:O	38:DG:195:PHE:N	2.48	0.47
43:DN:84:LYS:O	43:DN:86:ALA:N	2.46	0.47
45:DP:166:GLU:O	45:DP:169:ALA:N	2.47	0.47
48:DS:12:ALA:C	48:DS:14:VAL:N	2.71	0.47
51:DV:21:PHE:O	51:DV:22:VAL:CB	2.61	0.47
56:Da:14:ILE:H	56:Da:72:ARG:N	2.05	0.47
56:Da:84:ASP:O	56:Da:85:ALA:CB	2.62	0.47
57:Db:31:ASN:C	57:Db:33:ARG:H	2.22	0.47
58:Dc:32:LYS:C	58:Dc:34:GLN:H	2.23	0.47
58:Dc:52:ALA:O	58:Dc:55:LEU:N	2.48	0.47
1:A1:42:G:C8	1:A1:437:A:H3'	2.51	0.46
1:A1:98:U:C2	1:A1:99:C:C5	3.03	0.46
1:A1:373:G:H2'	1:A1:374:U:H6	1.80	0.46
1:A1:451:A:N3	1:A1:451:A:H2'	2.29	0.46
1:A1:589:C:C2	1:A1:590:C:C5	3.03	0.46
1:A1:590:C:O2'	1:A1:591:A:H5'	2.15	0.46
1:A1:830:U:O2	1:A1:830:U:C2'	2.62	0.46
1:A1:839:U:O2	1:A1:839:U:O4'	2.34	0.46
1:A1:959:U:C1'	1:A1:960:U:OP1	2.63	0.46
1:A1:1076:A:N7	1:A1:1077:C:C5	2.84	0.46
1:A1:1117:U:C2	1:A1:1118:G:C8	3.03	0.46
1:A1:1308:G:C6	1:A1:1309:C:C4	3.04	0.46
1:A1:1383:G:O6	1:A1:1384:A:N6	2.49	0.46
1:A1:1448:G:O2'	1:A1:1449:U:H5'	2.15	0.46
1:A1:1575:G:N3	1:A1:1575:G:C2'	2.64	0.46
1:A1:1590:G:N3	1:A1:1591:C:C5	2.84	0.46
1:A1:1660:A:C6	1:A1:1661:U:C4	3.03	0.46
1:A1:1718:G:N1	1:A1:1719:A:N7	2.63	0.46
2:AA:175:TYR:C	2:AA:177:LEU:N	2.71	0.46
3:AB:62:PRO:HA	3:AB:63:VAL:CB	2.45	0.46
3:AB:134:LEU:O	3:AB:136:VAL:N	2.48	0.46
4:AC:166:ASP:O	4:AC:167:PHE:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:117:THR:O	5:AD:121:ILE:CB	2.63	0.46
10:AI:115:TYR:O	10:AI:116:LEU:C	2.57	0.46
13:AL:35:ILE:O	13:AL:36:LYS:C	2.58	0.46
13:AL:121:ALA:C	13:AL:123:ARG:N	2.73	0.46
14:AM:27:LYS:O	14:AM:29:GLU:N	2.41	0.46
18:AQ:66:VAL:C	18:AQ:68:ARG:N	2.72	0.46
19:AR:33:LEU:O	19:AR:34:GLU:CB	2.62	0.46
21:AT:27:ALA:HB2	21:AT:296:ALA:CB	2.44	0.46
21:AT:128:ASP:O	21:AT:129:LYS:CB	2.63	0.46
21:AT:282:SER:O	21:AT:284:ALA:N	2.38	0.46
29:B1:3:U:O2'	29:B1:4:U:H5'	2.16	0.46
29:B1:5:G:O6	29:B1:6:A:C6	2.68	0.46
29:B1:114:A:OP2	29:B1:154:U:O4	2.33	0.46
29:B1:179:C:H2'	29:B1:179:C:O2	2.15	0.46
29:B1:183:G:C6	29:B1:234:G:C6	3.02	0.46
29:B1:304:G:O2'	54:BY:61:PHE:CB	2.63	0.46
29:B1:317:A:N3	29:B1:317:A:H2'	2.29	0.46
29:B1:349:A:H2	31:B3:24:G:C5	2.33	0.46
29:B1:438:A:O2'	29:B1:494:G:C1'	2.63	0.46
29:B1:510:G:C2	29:B1:511:G:H1'	2.50	0.46
29:B1:510:G:C2'	29:B1:511:G:O5'	2.63	0.46
29:B1:547:G:C2'	29:B1:548:G:H5'	2.45	0.46
29:B1:712:G:H2'	29:B1:713:U:H6	1.79	0.46
29:B1:743:C:C2'	29:B1:744:A:C5'	2.79	0.46
29:B1:747:A:C5	29:B1:748:U:H5	2.32	0.46
29:B1:782:U:O4	74:B1:3483:OHX:N5	2.49	0.46
29:B1:917:A:H5'	29:B1:918:C:OP2	2.15	0.46
29:B1:1076:C:H3'	29:B1:1077:U:C5	2.50	0.46
29:B1:1084:A:C5	29:B1:1085:A:C6	3.03	0.46
29:B1:1106:G:C6	29:B1:1107:C:C5	3.04	0.46
29:B1:1202:A:C6	29:B1:1301:A:N3	2.83	0.46
29:B1:1310:G:H5'	29:B1:1310:G:C8	2.44	0.46
29:B1:1326:A:C5	29:B1:1327:C:C5	3.03	0.46
29:B1:1417:G:C8	29:B1:1417:G:O5'	2.68	0.46
29:B1:1427:U:O2'	29:B1:1428:A:H5'	2.14	0.46
29:B1:1477:A:H2'	29:B1:1478:C:H5"	1.96	0.46
29:B1:1489:A:OP2	29:B1:1838:G:N1	2.45	0.46
29:B1:1542:G:C2	29:B1:1543:G:C8	3.03	0.46
29:B1:1604:G:C6	29:B1:1605:A:C6	3.03	0.46
29:B1:1745:C:H2'	29:B1:1746:U:H6	1.75	0.46
29:B1:1797:A:C5	29:B1:1798:A:N7	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1910:A:N6	29:B1:1911:A:N1	2.62	0.46
29:B1:1921:A:N7	29:B1:1932:A:C5	2.83	0.46
29:B1:2266:U:H5"	29:B1:2267:C:OP2	2.14	0.46
29:B1:2289:U:O2'	29:B1:2290:C:C5'	2.62	0.46
29:B1:2706:G:C4	29:B1:2707:C:C5	3.03	0.46
29:B1:2860:U:O2	29:B1:2860:U:H2'	2.13	0.46
29:B1:2908:G:H2'	29:B1:2909:U:O5'	2.15	0.46
29:B1:2931:C:C2	29:B1:2932:U:C5	3.03	0.46
29:B1:3018:C:N4	29:B1:3019:U:O4	2.48	0.46
29:B1:3044:G:C2'	29:B1:3045:G:H5'	2.45	0.46
29:B1:3142:A:N3	74:B1:3428:OHX:N5	2.63	0.46
29:B1:3201:C:N3	29:B1:3202:G:N7	2.62	0.46
29:B1:3221:C:N3	29:B1:3222:U:H5	2.11	0.46
29:B1:3262:U:C2'	29:B1:3263:G:H8	2.26	0.46
29:B1:3304:U:O2'	29:B1:3305:A:C5'	2.61	0.46
29:B1:3318:G:O2'	29:B1:3319:U:OP1	2.31	0.46
31:B3:92:A:H2'	31:B3:93:U:C5'	2.37	0.46
31:B3:107:G:C2	31:B3:116:G:N7	2.83	0.46
31:B3:114:G:H2'	31:B3:115:C:C5'	2.45	0.46
34:BC:17:LEU:CB	34:BC:18:PRO:HA	2.45	0.46
35:BD:220:ARG:C	35:BD:222:VAL:N	2.73	0.46
37:BF:115:GLU:C	37:BF:117:LYS:N	2.72	0.46
39:BH:81:THR:O	39:BH:83:ASP:N	2.48	0.46
41:BJ:69:ARG:O	41:BJ:70:ILE:C	2.56	0.46
41:BJ:144:ASN:O	41:BJ:145:LYS:C	2.58	0.46
43:BN:71:ALA:O	43:BN:75:GLY:N	2.38	0.46
62:Bg:34:HIS:O	62:Bg:35:ALA:HB3	2.14	0.46
63:Bh:41:UNK:C	63:Bh:43:UNK:N	2.72	0.46
1:C1:21:U:H3	1:C1:605:A:H2	1.59	0.46
1:C1:27:U:N3	1:C1:28:A:N7	2.62	0.46
1:C1:55:A:N3	1:C1:403:G:C6	2.83	0.46
1:C1:170:U:OP1	1:C1:267:U:O2'	2.33	0.46
1:C1:195:G:N2	1:C1:196:G:C4	2.83	0.46
1:C1:270:C:H4'	1:C1:270:C:OP1	2.15	0.46
1:C1:287:G:N1	1:C1:288:A:C2	2.83	0.46
1:C1:329:G:C2	1:C1:330:G:C8	3.04	0.46
1:C1:374:U:OP1	1:C1:374:U:H4'	2.15	0.46
1:C1:401:A:H4'	1:C1:402:C:OP2	2.14	0.46
1:C1:539:G:HO2'	1:C1:542:A:H8	1.54	0.46
1:C1:568:G:N1	1:C1:569:C:C4	2.83	0.46
1:C1:657:U:O2'	1:C1:661:A:N6	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:856:A:H2'	1:C1:856:A:N3	2.30	0.46
1:C1:877:G:O6	1:C1:952:A:C6	2.68	0.46
1:C1:990:C:H2'	1:C1:991:G:O4'	2.14	0.46
1:C1:1075:C:N4	1:C1:1076:A:C6	2.83	0.46
1:C1:1147:A:C4	1:C1:1148:C:C6	3.03	0.46
1:C1:1180:C:C4	1:C1:1181:U:C5	3.03	0.46
1:C1:1281:G:H4'	15:CN:75:GLY:CA	2.45	0.46
1:C1:1456:C:C5'	1:C1:1457:C:H5"	2.41	0.46
1:C1:1584:G:N7	11:CJ:123:ARG:O	2.48	0.46
1:C1:1615:C:H3'	1:C1:1616:G:H5"	1.96	0.46
1:C1:1685:G:C4	1:C1:1719:A:N1	2.83	0.46
1:C1:1713:G:N3	1:C1:1713:G:C2'	2.77	0.46
1:C1:1722:A:OP1	1:C1:1722:A:O3'	2.33	0.46
1:C1:1765:A:H2	1:C1:1768:G:H22	1.60	0.46
1:C1:1779:U:H4'	1:C1:1780:G:OP1	2.14	0.46
4:CC:108:LYS:O	4:CC:109:LEU:C	2.59	0.46
5:CD:192:GLU:O	5:CD:193:THR:C	2.58	0.46
23:Cb:58:UNK:C	23:Cb:60:UNK:N	2.76	0.46
29:D1:23:A:OP1	59:Dd:43:LYS:CA	2.63	0.46
29:D1:157:A:C2'	29:D1:158:G:N7	2.79	0.46
29:D1:401:U:H5"	29:D1:403:C:O2	2.15	0.46
29:D1:518:G:H3'	29:D1:519:A:H3'	1.97	0.46
29:D1:649:A:C4	29:D1:650:C:C5	3.03	0.46
29:D1:665:A:H2'	29:D1:666:A:H5'	1.96	0.46
29:D1:951:A:C4	29:D1:1369:A:N1	2.83	0.46
29:D1:964:G:C4	29:D1:965:A:C8	3.03	0.46
29:D1:1079:A:O4'	36:DE:141:PRO:CB	2.63	0.46
29:D1:1145:G:C4	29:D1:1160:C:C4	3.03	0.46
29:D1:1186:G:H2'	29:D1:1187:C:O5'	2.14	0.46
29:D1:1199:C:C2	74:D1:3574:OHX:N5	2.83	0.46
29:D1:1212:A:H3'	29:D1:1213:G:C5'	2.46	0.46
29:D1:1377:G:C2	29:D1:1378:U:C5	3.03	0.46
29:D1:1740:U:O2	29:D1:1741:A:N3	2.48	0.46
29:D1:1882:G:C4	29:D1:1883:A:C8	3.03	0.46
29:D1:2280:A:O2'	29:D1:2281:A:P	2.73	0.46
29:D1:2288:G:C2	29:D1:2289:U:C4	3.03	0.46
29:D1:2554:A:C2	33:DB:85:GLY:C	2.93	0.46
29:D1:2573:G:C5	29:D1:2574:G:C8	3.03	0.46
29:D1:2593:A:H4'	29:D1:2594:C:OP2	2.15	0.46
29:D1:2642:A:H2	29:D1:2643:A:C6	2.32	0.46
29:D1:2679:A:O4'	29:D1:2679:A:OP2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2680:A:H3'	29:D1:2680:A:C8	2.50	0.46
29:D1:2687:G:OP1	74:D1:3430:OHX:N5	2.48	0.46
29:D1:2704:A:P	74:D1:3402:OHX:N2	2.87	0.46
29:D1:2771:U:O2'	29:D1:2772:C:OP1	2.30	0.46
29:D1:2787:G:H2'	29:D1:2788:C:C6	2.50	0.46
29:D1:2898:G:OP2	29:D1:2899:C:H5'	2.14	0.46
29:D1:2963:C:H2'	29:D1:2964:G:C5'	2.45	0.46
29:D1:3010:U:H2'	29:D1:3011:A:OP1	2.15	0.46
29:D1:3018:C:N4	29:D1:3019:U:O4	2.49	0.46
29:D1:3030:G:C2'	29:D1:3031:G:O5'	2.63	0.46
29:D1:3046:A:C2'	29:D1:3047:U:H5'	2.45	0.46
29:D1:3079:U:O2'	29:D1:3080:G:OP1	2.32	0.46
29:D1:3212:C:C5	29:D1:3213:A:C2	3.02	0.46
29:D1:3298:C:C2	29:D1:3299:A:C8	3.02	0.46
29:D1:3352:U:O2	29:D1:3352:U:C2'	2.61	0.46
29:D1:3386:G:O2'	29:D1:3387:U:O5'	2.28	0.46
29:D1:3388:C:O2'	29:D1:3389:U:C6	2.64	0.46
31:D3:17:A:H2'	31:D3:18:U:C6	2.42	0.46
31:D3:30:C:C2'	31:D3:31:G:O5'	2.63	0.46
31:D3:80:A:H2'	31:D3:81:U:N3	2.30	0.46
34:DC:291:GLU:O	34:DC:292:ALA:C	2.58	0.46
40:DI:85:GLY:HA3	40:DI:187:ILE:O	2.15	0.46
45:DP:161:LYS:O	45:DP:164:SER:CB	2.64	0.46
47:DR:93:ILE:O	47:DR:94:PHE:CB	2.62	0.46
49:DT:9:SER:C	49:DT:11:THR:H	2.24	0.46
61:Df:72:LEU:O	61:Df:82:GLN:N	2.48	0.46
1:A1:74:U:O2'	1:A1:75:U:C5'	2.62	0.46
1:A1:208:U:O3'	1:A1:209:U:O4'	2.34	0.46
1:A1:217:A:C1'	1:A1:218:A:P	3.03	0.46
1:A1:224:C:O2'	1:A1:225:A:H8	1.98	0.46
1:A1:354:C:C2'	1:A1:355:G:H5'	2.44	0.46
1:A1:381:C:O2	1:A1:381:C:H2'	2.13	0.46
1:A1:614:C:C4	1:A1:615:A:N7	2.84	0.46
1:A1:620:A:H2'	1:A1:621:A:N9	2.30	0.46
1:A1:705:U:C5	1:A1:706:A:N6	2.83	0.46
1:A1:716:C:H2'	1:A1:717:C:C1'	2.45	0.46
1:A1:873:U:H3	1:A1:874:C:N4	2.13	0.46
1:A1:900:A:C4'	1:A1:916:U:H1'	2.44	0.46
1:A1:992:A:C2	1:A1:1012:U:O2	2.62	0.46
1:A1:998:A:C8	1:A1:999:U:C5	3.03	0.46
1:A1:1051:G:N3	1:A1:1052:U:N3	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1196:A:N3	1:A1:1196:A:O4'	2.48	0.46
1:A1:1240:U:P	1:A1:1241:G:OP2	2.73	0.46
1:A1:1242:A:H5"	1:A1:1243:G:OP2	2.14	0.46
1:A1:1276:U:OP1	4:AC:147:ALA:HB2	2.16	0.46
1:A1:1330:G:C4	1:A1:1331:A:N7	2.83	0.46
1:A1:1497:U:C4	1:A1:1511:U:O2	2.69	0.46
1:A1:1671:A:C8	1:A1:1731:A:N6	2.83	0.46
1:A1:1745:G:O6	74:A1:1972:OHX:N6	2.48	0.46
2:AA:86:VAL:O	2:AA:87:LEU:C	2.58	0.46
3:AB:231:ALA:HB1	3:AB:234:PRO:CB	2.45	0.46
4:AC:57:ASP:C	4:AC:59:LEU:H	2.22	0.46
8:AG:114:ARG:C	8:AG:116:ILE:N	2.72	0.46
11:AJ:131:GLY:O	11:AJ:132:LYS:C	2.59	0.46
14:AM:125:SER:O	14:AM:128:GLY:HA2	2.15	0.46
16:AO:14:ILE:O	16:AO:15:ASN:C	2.58	0.46
24:Ac:9:UNK:O	24:Ac:10:UNK:CB	2.62	0.46
26:Ae:5:UNK:O	26:Ae:7:UNK:O	2.33	0.46
29:B1:136:G:H2'	29:B1:136:G:N3	2.29	0.46
29:B1:173:G:H2'	29:B1:174:C:N1	2.28	0.46
29:B1:281:G:C4	29:B1:282:G:N7	2.83	0.46
29:B1:517:G:P	29:B1:517:G:C3'	3.00	0.46
29:B1:574:U:H6	29:B1:574:U:C5'	2.27	0.46
29:B1:657:A:H2'	29:B1:658:G:O5'	2.15	0.46
29:B1:698:U:O4'	29:B1:699:A:OP1	2.32	0.46
29:B1:715:A:H5"	54:BY:114:GLY:O	2.15	0.46
29:B1:747:A:C6	29:B1:748:U:C5	3.02	0.46
29:B1:826:G:N2	29:B1:1589:A:N6	2.60	0.46
29:B1:944:C:C2	29:B1:945:C:C5	3.03	0.46
29:B1:963:G:C8	29:B1:963:G:H3'	2.50	0.46
29:B1:1007:U:H4'	29:B1:1007:U:OP1	2.15	0.46
29:B1:1165:A:C2	29:B1:1166:G:C8	3.02	0.46
29:B1:1205:A:N1	29:B1:1206:G:C5	2.83	0.46
29:B1:1216:C:H5'	29:B1:1217:A:OP2	2.14	0.46
29:B1:1217:A:C6	29:B1:1218:U:C4	3.03	0.46
29:B1:1281:G:C6	29:B1:1282:G:C8	3.03	0.46
29:B1:1397:C:C4	29:B1:1398:U:C4	3.03	0.46
29:B1:1449:A:C2	29:B1:2356:A:C5	3.03	0.46
29:B1:1509:A:N6	29:B1:1510:G:C2	2.83	0.46
29:B1:1520:G:N2	29:B1:1521:G:N3	2.63	0.46
29:B1:1558:A:H5"	29:B1:1559:A:O4'	2.15	0.46
29:B1:1768:U:C2	29:B1:1769:G:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1815:U:H3'	29:B1:1816:A:C5'	2.45	0.46
29:B1:1818:U:H2'	29:B1:1819:U:N3	2.29	0.46
29:B1:1847:A:C2	29:B1:1849:C:C6	3.04	0.46
29:B1:1875:G:C4	29:B1:1876:U:C6	3.03	0.46
29:B1:1895:A:C6	29:B1:2341:A:N1	2.83	0.46
29:B1:2370:G:C6	29:B1:2371:G:C5	3.03	0.46
29:B1:2400:G:C1'	29:B1:2401:A:OP1	2.63	0.46
29:B1:2419:A:C5	29:B1:2804:A:C5	3.03	0.46
29:B1:2614:G:N3	29:B1:2797:C:C6	2.82	0.46
29:B1:2749:G:C8	29:B1:2750:U:C5	3.04	0.46
29:B1:2834:G:O2'	29:B1:2835:U:O4'	2.34	0.46
29:B1:2897:A:C6	29:B1:2904:U:O4	2.68	0.46
29:B1:2919:A:H3'	29:B1:2920:U:C5'	2.40	0.46
29:B1:3049:A:H5'	29:B1:3050:U:OP2	2.15	0.46
29:B1:3086:A:N9	29:B1:3087:A:C8	2.84	0.46
29:B1:3102:G:O2'	29:B1:3103:A:P	2.73	0.46
29:B1:3136:G:N3	29:B1:3137:C:C6	2.82	0.46
29:B1:3292:A:C2'	29:B1:3293:U:H4'	2.46	0.46
29:B1:3327:G:C5	29:B1:3328:G:C5	3.03	0.46
30:B2:92:A:O2'	30:B2:93:C:C4'	2.63	0.46
30:B2:106:U:O2'	30:B2:107:C:P	2.73	0.46
30:B2:114:U:H3'	30:B2:115:G:H8	1.79	0.46
32:BA:128:LEU:O	32:BA:131:ALA:HB3	2.15	0.46
36:BE:101:THR:C	36:BE:105:ILE:H	2.23	0.46
38:BG:104:GLN:O	38:BG:107:ARG:HA	2.15	0.46
39:BH:152:LEU:HA	39:BH:178:ALA:HB3	1.97	0.46
41:BJ:69:ARG:O	41:BJ:70:ILE:O	2.33	0.46
42:BK:107:ASP:O	42:BK:108:GLU:O	2.33	0.46
49:BT:15:PHE:O	49:BT:16:GLN:O	2.34	0.46
53:BX:36:SER:O	53:BX:37:LYS:C	2.58	0.46
54:BY:25:HIS:C	54:BY:27:LYS:N	2.70	0.46
64:Bi:3:UNK:C	64:Bi:5:UNK:N	2.74	0.46
1:C1:13:C:C4'	3:CB:161:LYS:O	2.63	0.46
1:C1:26:A:P	1:C1:26:A:H8	2.39	0.46
1:C1:74:U:O2'	1:C1:75:U:C5'	2.63	0.46
1:C1:131:C:O2	1:C1:131:C:C2'	2.57	0.46
1:C1:150:U:O2	1:C1:150:U:C2'	2.61	0.46
1:C1:200:A:O2'	1:C1:201:G:P	2.74	0.46
1:C1:432:G:O2'	1:C1:433:C:H5'	2.16	0.46
1:C1:446:A:N6	1:C1:461:G:H21	2.13	0.46
1:C1:615:A:H2'	1:C1:615:A:N3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:818:C:N4	1:C1:854:U:C4	2.83	0.46
1:C1:837:G:H2'	1:C1:838:G:C8	2.50	0.46
1:C1:838:G:O6	74:C1:1928:OHX:N5	2.49	0.46
1:C1:860:U:O2	1:C1:860:U:C2'	2.64	0.46
1:C1:896:U:C5	1:C1:897:C:C4	3.03	0.46
1:C1:959:U:C1'	1:C1:960:U:OP1	2.63	0.46
1:C1:1042:G:N1	1:C1:1043:A:C6	2.83	0.46
1:C1:1202:A:H62	1:C1:1456:C:H2'	1.80	0.46
1:C1:1216:C:O3'	1:C1:1217:A:H3'	2.15	0.46
1:C1:1246:C:C4	1:C1:1247:U:C4	3.03	0.46
1:C1:1365:C:N4	1:C1:1366:U:C5	2.83	0.46
1:C1:1377:U:O2	1:C1:1378:U:H4'	2.15	0.46
1:C1:1407:U:H2'	1:C1:1408:G:O4'	2.15	0.46
1:C1:1543:A:H1'	1:C1:1569:A:C6	2.49	0.46
1:C1:1588:G:H1	1:C1:1608:U:H3	1.62	0.46
1:C1:1627:U:O2'	1:C1:1628:U:H6	1.98	0.46
1:C1:1650:U:H2'	1:C1:1650:U:O2	2.15	0.46
1:C1:1660:A:H2'	1:C1:1661:U:O4'	2.16	0.46
1:C1:1746:A:H3'	1:C1:1747:G:C8	2.46	0.46
1:C1:1749:A:C2'	1:C1:1750:A:O5'	2.64	0.46
2:CA:80:THR:C	2:CA:82:GLY:N	2.73	0.46
2:CA:84:ARG:O	2:CA:86:VAL:N	2.48	0.46
3:CB:99:LYS:CB	3:CB:117:THR:HA	2.44	0.46
3:CB:133:LYS:C	3:CB:135:SER:N	2.73	0.46
14:CM:125:SER:O	14:CM:128:GLY:HA2	2.15	0.46
21:CT:19:TRP:O	21:CT:38:ARG:N	2.33	0.46
22:Ca:16:UNK:O	22:Ca:19:UNK:N	2.49	0.46
29:D1:3:U:O4	31:D3:157:U:O4	2.34	0.46
29:D1:10:C:C5	31:D3:149:A:H2	2.26	0.46
29:D1:144:A:N3	29:D1:145:G:H1'	2.30	0.46
29:D1:180:C:O2'	29:D1:181:U:H5'	2.14	0.46
29:D1:279:U:OP2	74:DO:301:OHX:N1	2.48	0.46
29:D1:383:G:H5'	29:D1:385:A:OP2	2.15	0.46
29:D1:396:A:H2	29:D1:399:A:C4	2.33	0.46
29:D1:574:U:HO2'	29:D1:575:G:P	2.32	0.46
29:D1:597:G:C6	29:D1:607:A:N1	2.83	0.46
29:D1:606:C:O3'	29:D1:607:A:O4'	2.32	0.46
29:D1:642:U:H2'	29:D1:644:G:C8	2.50	0.46
29:D1:761:A:H2'	29:D1:761:A:N3	2.30	0.46
29:D1:903:U:O2	29:D1:903:U:H2'	2.15	0.46
29:D1:1050:U:O2	29:D1:1051:U:C5	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1245:A:OP2	29:D1:1247:U:OP1	2.33	0.46
29:D1:1256:G:C6	29:D1:1261:G:N2	2.83	0.46
29:D1:1286:A:O4'	29:D1:1287:A:H5'	2.15	0.46
29:D1:1399:A:N1	31:D3:8:C:O4'	2.48	0.46
29:D1:1718:G:C2'	29:D1:1719:G:H5'	2.46	0.46
29:D1:1784:G:C2'	29:D1:1785:U:H5'	2.45	0.46
29:D1:1851:G:C4	29:D1:1852:G:C8	3.03	0.46
29:D1:1876:U:H6	29:D1:1876:U:H5'	1.81	0.46
29:D1:1881:A:N1	29:D1:2352:A:C6	2.84	0.46
29:D1:2194:G:C6	29:D1:2195:C:C4	3.03	0.46
29:D1:2236:G:C5	29:D1:2237:C:C5	3.03	0.46
29:D1:2243:A:N1	29:D1:2313:A:C6	2.83	0.46
29:D1:2309:A:N3	29:D1:2962:U:H5'	2.30	0.46
29:D1:2370:G:OP2	74:D1:3574:OHX:N2	2.49	0.46
29:D1:2414:G:H2'	29:D1:2415:C:C6	2.49	0.46
29:D1:2827:U:O4	74:D1:3406:OHX:N6	2.47	0.46
29:D1:3110:C:H2'	29:D1:3111:U:O4'	2.15	0.46
29:D1:3136:G:N3	29:D1:3137:C:C6	2.83	0.46
29:D1:3284:G:H2'	29:D1:3285:C:C6	2.50	0.46
29:D1:3326:G:N3	29:D1:3327:G:C8	2.82	0.46
29:D1:3335:A:N6	29:D1:3336:A:C2	2.84	0.46
30:D2:48:U:C2'	30:D2:49:G:N7	2.78	0.46
31:D3:1:A:C2	31:D3:2:A:N3	2.83	0.46
31:D3:116:G:C2	31:D3:117:C:C6	3.03	0.46
33:DB:115:ASN:O	33:DB:125:ALA:HB3	2.15	0.46
33:DB:225:ILE:O	33:DB:226:SER:C	2.55	0.46
34:DC:145:GLU:HA	34:DC:149:ALA:H	1.81	0.46
35:DD:190:GLY:C	35:DD:192:GLY:N	2.71	0.46
38:DG:69:ALA:O	38:DG:72:ALA:N	2.27	0.46
41:DJ:24:ARG:O	41:DJ:25:ALA:HB2	2.16	0.46
44:DO:185:ALA:C	44:DO:187:ARG:CA	2.70	0.46
50:DU:121:GLU:O	50:DU:123:ALA:N	2.48	0.46
55:DZ:82:GLY:O	55:DZ:84:LEU:N	2.48	0.46
58:Dc:32:LYS:O	58:Dc:34:GLN:N	2.47	0.46
1:A1:104:A:C6	1:A1:106:U:C2	3.04	0.46
1:A1:192:U:N3	1:A1:195:G:O6	2.47	0.46
1:A1:235:G:OP2	1:A1:235:G:H8	1.98	0.46
1:A1:243:G:C4	1:A1:251:A:N1	2.83	0.46
1:A1:308:C:H4'	1:A1:309:C:OP1	2.14	0.46
1:A1:365:G:O6	1:A1:377:G:O6	2.33	0.46
1:A1:429:G:H5"	1:A1:439:U:C3'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:446:A:O2'	1:A1:447:U:H5'	2.15	0.46
1:A1:627:C:N4	1:A1:628:G:C6	2.83	0.46
1:A1:866:G:H2'	1:A1:867:G:H8	1.81	0.46
1:A1:985:G:O6	1:A1:986:G:O6	2.33	0.46
1:A1:986:G:H8	1:A1:986:G:O5'	1.98	0.46
1:A1:1096:C:O2	1:A1:1096:C:C2'	2.63	0.46
1:A1:1201:G:OP2	1:A1:1201:G:C4	2.68	0.46
1:A1:1270:G:C6	1:A1:1271:G:N7	2.84	0.46
1:A1:1416:G:C6	1:A1:1417:A:C5	3.04	0.46
1:A1:1528:U:H2'	1:A1:1529:C:C6	2.50	0.46
1:A1:1535:U:OP1	1:A1:1536:G:C5	2.68	0.46
1:A1:1654:G:C2	1:A1:1745:G:C4	3.02	0.46
1:A1:1673:G:C8	1:A1:1674:C:C5	3.04	0.46
1:A1:1682:U:O2	1:A1:1683:C:C4	2.69	0.46
1:A1:1691:A:N6	1:A1:1713:G:C2	2.84	0.46
3:AB:59:HIS:CB	3:AB:61:LEU:H	2.28	0.46
5:AD:65:ARG:CB	5:AD:87:CYS:CB	2.94	0.46
5:AD:166:ARG:O	5:AD:167:ARG:C	2.58	0.46
5:AD:185:ARG:C	5:AD:187:ILE:H	2.23	0.46
9:AH:57:PRO:CB	9:AH:60:ALA:HB3	2.45	0.46
11:AJ:48:VAL:C	11:AJ:50:GLU:H	2.23	0.46
11:AJ:92:TYR:N	11:AJ:93:HIS:HA	2.29	0.46
20:AS:37:ASN:CB	20:AS:38:ILE:CA	2.90	0.46
24:Ac:36:UNK:O	24:Ac:37:UNK:C	2.63	0.46
28:Ah:11:UNK:O	28:Ah:13:UNK:N	2.47	0.46
28:Ah:15:UNK:O	28:Ah:19:UNK:CB	2.63	0.46
28:Ah:63:UNK:O	28:Ah:64:UNK:C	2.64	0.46
29:B1:9:U:O2	29:B1:9:U:C3'	2.62	0.46
29:B1:44:U:H5	29:B1:45:A:C5	2.33	0.46
29:B1:47:C:C4	29:B1:48:A:C6	3.03	0.46
29:B1:77:A:H2'	29:B1:78:U:O5'	2.15	0.46
29:B1:136:G:OP2	29:B1:136:G:H8	1.98	0.46
29:B1:199:A:OP1	53:BX:60:ARG:O	2.33	0.46
29:B1:286:U:O2'	29:B1:287:G:O4'	2.26	0.46
29:B1:339:C:O2'	29:B1:340:C:H5"	2.14	0.46
29:B1:347:G:C6	29:B1:348:A:N6	2.83	0.46
29:B1:532:A:N1	29:B1:533:A:C2	2.84	0.46
29:B1:687:U:C2'	29:B1:688:G:O5'	2.64	0.46
29:B1:757:C:N4	29:B1:758:C:C4	2.83	0.46
29:B1:1440:G:C2'	29:B1:1441:G:H5'	2.45	0.46
29:B1:1505:C:H6	29:B1:1505:C:H5"	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1556:C:O2	29:B1:1556:C:H2'	2.14	0.46
29:B1:1558:A:C8	29:B1:1558:A:OP2	2.68	0.46
29:B1:1562:C:H2'	29:B1:1563:C:H6	1.80	0.46
29:B1:1688:U:H3'	29:B1:1689:U:H5	1.81	0.46
29:B1:1730:G:C6	55:BZ:26:GLY:HA2	2.51	0.46
29:B1:1869:C:O2	29:B1:1869:C:H2'	2.15	0.46
29:B1:1890:U:N3	29:B1:1891:A:N7	2.63	0.46
29:B1:1907:C:C3'	29:B1:1907:C:C6	2.98	0.46
29:B1:2149:A:H62	29:B1:2187:G:H21	1.62	0.46
29:B1:2196:C:N4	29:B1:2242:A:C8	2.83	0.46
29:B1:2215:A:C2	29:B1:2216:G:C1'	2.98	0.46
29:B1:2223:A:N3	29:B1:2224:A:C4	2.83	0.46
29:B1:2249:G:C2	29:B1:2272:G:O6	2.68	0.46
29:B1:2716:U:O2	29:B1:2716:U:C2'	2.58	0.46
29:B1:2717:U:C4	29:B1:2740:A:C6	3.03	0.46
29:B1:2876:C:H2'	29:B1:2877:G:C5'	2.45	0.46
29:B1:3141:A:C5'	29:B1:3143:C:H2'	2.45	0.46
29:B1:3141:A:OP1	29:B1:3141:A:H2'	2.15	0.46
29:B1:3142:A:H1'	29:B1:3144:G:N7	2.30	0.46
29:B1:3330:A:C5	29:B1:3331:U:C4	3.04	0.46
30:B2:66:A:C5	30:B2:67:G:C8	3.03	0.46
30:B2:111:U:O3'	30:B2:112:G:H4'	2.16	0.46
31:B3:49:G:O6	31:B3:80:A:C2	2.68	0.46
31:B3:75:G:P	31:B3:90:U:C5'	3.03	0.46
32:BA:55:LEU:HA	32:BA:167:VAL:HA	1.96	0.46
34:BC:159:ARG:CA	34:BC:181:ILE:O	2.64	0.46
35:BD:8:VAL:O	35:BD:9:HIS:C	2.58	0.46
35:BD:89:ALA:O	35:BD:90:PHE:C	2.58	0.46
35:BD:177:ASP:C	35:BD:179:LEU:H	2.22	0.46
35:BD:179:LEU:O	35:BD:180:LYS:C	2.58	0.46
35:BD:193:LYS:C	35:BD:195:ARG:N	2.70	0.46
36:BE:33:ARG:C	36:BE:35:ARG:H	2.24	0.46
37:BF:143:LYS:O	37:BF:146:ILE:CB	2.64	0.46
37:BF:157:GLN:O	37:BF:159:LEU:N	2.46	0.46
38:BG:179:LEU:O	38:BG:180:SER:CB	2.63	0.46
45:BP:37:ARG:HA	45:BP:107:GLY:HA2	1.97	0.46
46:BQ:103:GLU:O	46:BQ:106:GLY:HA2	2.15	0.46
47:BR:34:THR:O	47:BR:36:LEU:O	2.33	0.46
48:BS:134:HIS:O	48:BS:136:ARG:N	2.49	0.46
51:BV:33:ASN:O	51:BV:34:SER:C	2.58	0.46
52:BW:105:VAL:O	52:BW:106:ASP:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:Bb:49:ASN:O	57:Bb:50:ILE:O	2.33	0.46
58:Bc:50:SER:O	58:Bc:51:ILE:C	2.57	0.46
61:Bf:33:ALA:O	61:Bf:34:SER:C	2.58	0.46
1:C1:39:A:C4	1:C1:467:G:N2	2.84	0.46
1:C1:81:G:H2'	1:C1:82:U:O5'	2.16	0.46
1:C1:173:A:N3	1:C1:174:U:C1'	2.78	0.46
1:C1:607:G:C8	1:C1:613:G:C4	3.03	0.46
1:C1:783:G:H2'	1:C1:784:C:H6	1.80	0.46
1:C1:1012:U:H2'	1:C1:1013:A:O4'	2.15	0.46
1:C1:1016:C:C2'	1:C1:1017:U:H5'	2.46	0.46
1:C1:1051:G:N3	1:C1:1052:U:N3	2.63	0.46
1:C1:1073:G:C6	1:C1:1074:G:C2	3.03	0.46
1:C1:1086:A:C8	1:C1:1087:A:N7	2.84	0.46
1:C1:1201:G:OP2	1:C1:1201:G:C4	2.68	0.46
1:C1:1276:U:O2'	1:C1:1277:G:H5'	2.16	0.46
1:C1:1374:C:C5	1:C1:1375:A:C6	3.04	0.46
1:C1:1523:G:H3'	1:C1:1524:A:H5"	1.98	0.46
1:C1:1558:U:C6	1:C1:1559:A:N3	2.83	0.46
1:C1:1671:A:C2	1:C1:1672:G:H1'	2.50	0.46
1:C1:1672:G:C6	1:C1:1673:G:O6	2.68	0.46
1:C1:1681:A:C8	1:C1:1682:U:C2	3.04	0.46
1:C1:1758:U:C5'	1:C1:1759:C:OP2	2.63	0.46
2:CA:171:GLY:C	2:CA:173:ILE:H	2.23	0.46
5:CD:46:TRP:O	5:CD:47:SER:O	2.33	0.46
11:CJ:28:LEU:CA	14:CM:1:MET:HA	2.45	0.46
17:CP:123:LYS:O	17:CP:124:VAL:O	2.33	0.46
21:CT:240:VAL:O	21:CT:241:PHE:O	2.33	0.46
21:CT:296:ALA:C	21:CT:298:GLY:H	2.23	0.46
28:Ch:60:UNK:C	28:Ch:62:UNK:N	2.72	0.46
29:D1:34:A:H2'	29:D1:35:A:O4'	2.15	0.46
29:D1:55:G:HO2'	29:D1:56:G:P	2.38	0.46
29:D1:191:U:O2	29:D1:191:U:C2'	2.62	0.46
29:D1:211:A:H5'	29:D1:229:G:C1'	2.45	0.46
29:D1:283:G:N7	29:D1:285:A:O2'	2.48	0.46
29:D1:347:G:N2	29:D1:353:G:N9	2.63	0.46
29:D1:539:C:H2'	29:D1:540:U:C6	2.50	0.46
29:D1:712:G:C5	29:D1:713:U:C5	3.04	0.46
29:D1:1020:G:C6	29:D1:1021:G:C5	3.04	0.46
29:D1:1119:C:C2	29:D1:1120:A:C8	3.03	0.46
29:D1:1180:A:C4	29:D1:1182:A:N9	2.83	0.46
29:D1:1183:C:C2'	29:D1:1183:C:O2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1196:C:O2	30:D2:86:U:C1'	2.64	0.46
29:D1:1315:U:HO2'	29:D1:1316:C:C5'	2.27	0.46
29:D1:1357:G:C2	29:D1:1358:C:C2	3.03	0.46
29:D1:1464:G:N2	29:D1:1466:G:O5'	2.47	0.46
29:D1:1565:G:H2'	29:D1:1565:G:N3	2.30	0.46
29:D1:1605:A:C4	29:D1:1608:C:C5	3.04	0.46
29:D1:1779:C:P	29:D1:1780:G:H8	2.38	0.46
29:D1:1811:G:N1	29:D1:1812:G:C8	2.83	0.46
29:D1:2150:G:C6	29:D1:2151:C:C4	3.03	0.46
29:D1:2206:G:N2	29:D1:2238:G:H1'	2.30	0.46
29:D1:2215:A:N3	29:D1:2216:G:C8	2.83	0.46
29:D1:2221:G:C8	29:D1:2221:G:C3'	2.98	0.46
29:D1:2262:A:C5'	29:D1:2263:C:OP2	2.63	0.46
29:D1:2432:A:H2	44:DO:125:SER:CB	2.27	0.46
29:D1:2513:U:O4	29:D1:2592:G:H1'	2.15	0.46
29:D1:2513:U:C4	29:D1:2592:G:N3	2.84	0.46
29:D1:2530:G:O2'	29:D1:2531:C:O5'	2.33	0.46
29:D1:2580:A:O2'	29:D1:2581:U:OP1	2.26	0.46
29:D1:2607:G:C5	29:D1:2608:G:N7	2.83	0.46
29:D1:2661:G:H5'	29:D1:2749:G:H21	1.80	0.46
29:D1:2761:G:C2	29:D1:2795:U:C6	3.03	0.46
29:D1:2830:G:H2'	29:D1:2831:G:O5'	2.15	0.46
29:D1:2830:G:H2'	29:D1:2831:G:H8	1.80	0.46
29:D1:2841:G:N2	29:D1:2898:G:N1	2.64	0.46
29:D1:2948:C:C6	29:D1:2948:C:H5"	2.51	0.46
29:D1:3055:U:H5"	29:D1:3056:U:C5	2.51	0.46
29:D1:3217:C:C6	29:D1:3220:G:O2'	2.67	0.46
29:D1:3241:G:N2	29:D1:3246:G:N1	2.62	0.46
29:D1:3253:G:H5"	29:D1:3254:G:OP2	2.15	0.46
29:D1:3377:G:C2	74:D1:3452:OHX:N6	2.83	0.46
30:D2:2:G:C2	30:D2:3:U:C6	3.03	0.46
30:D2:88:G:C6	30:D2:89:G:N7	2.82	0.46
31:D3:54:A:H2'	31:D3:55:U:C5'	2.45	0.46
31:D3:56:G:C2	31:D3:57:C:C2	3.03	0.46
34:DC:41:VAL:C	34:DC:42:ALA:O	2.58	0.46
34:DC:159:ARG:CB	34:DC:181:ILE:O	2.63	0.46
42:DK:14:ILE:O	42:DK:15:GLU:C	2.58	0.46
43:DN:104:ALA:H	43:DN:106:ARG:H	1.63	0.46
44:DO:86:ASN:O	44:DO:87:GLN:C	2.56	0.46
44:DO:136:ASP:O	44:DO:139:HIS:CB	2.63	0.46
47:DR:35:PHE:C	47:DR:36:LEU:O	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DT:28:SER:O	49:DT:31:LEU:N	2.47	0.46
52:DW:127:THR:O	52:DW:129:ASP:N	2.48	0.46
53:DX:24:SER:O	53:DX:26:GLN:N	2.48	0.46
1:A1:44:U:C3'	1:A1:45:U:C5'	2.93	0.46
1:A1:72:A:N1	1:A1:81:G:O6	2.49	0.46
1:A1:111:U:C6	1:A1:304:U:O4	2.69	0.46
1:A1:151:G:N2	1:A1:163:G:N2	2.64	0.46
1:A1:175:G:H8	1:A1:175:G:O5'	1.98	0.46
1:A1:243:G:N3	1:A1:244:A:C8	2.83	0.46
1:A1:265:A:N7	1:A1:290:G:C2	2.83	0.46
1:A1:390:G:N2	1:A1:407:A:N6	2.63	0.46
1:A1:397:A:N6	1:A1:398:G:N1	2.64	0.46
1:A1:461:G:O2'	1:A1:462:G:O5'	2.32	0.46
1:A1:748:U:C4'	16:AO:123:GLY:HA2	2.46	0.46
1:A1:752:A:N6	1:A1:753:A:N6	2.63	0.46
1:A1:807:A:C8	1:A1:807:A:H5'	2.50	0.46
1:A1:820:U:C2'	1:A1:821:U:O5'	2.62	0.46
1:A1:824:G:C6	1:A1:850:A:C2	3.03	0.46
1:A1:828:U:C4	1:A1:829:A:N6	2.84	0.46
1:A1:896:U:H2'	1:A1:897:C:O4'	2.15	0.46
1:A1:947:U:H2'	1:A1:948:G:C8	2.50	0.46
1:A1:1045:C:O2'	1:A1:1046:G:P	2.73	0.46
1:A1:1120:U:O2	1:A1:1121:C:C6	2.68	0.46
1:A1:1155:G:C4	1:A1:1156:C:C5	3.03	0.46
1:A1:1181:U:C2	1:A1:1182:U:C6	3.03	0.46
1:A1:1240:U:H2'	1:A1:1241:G:C5'	2.17	0.46
1:A1:1244:A:C2	1:A1:1245:G:C1'	2.87	0.46
1:A1:1358:G:N1	1:A1:1359:C:C4	2.83	0.46
1:A1:1470:C:H3'	1:A1:1573:A:H62	1.80	0.46
1:A1:1493:A:OP2	1:A1:1494:C:P	2.74	0.46
1:A1:1538:U:H2'	1:A1:1539:G:H3'	1.96	0.46
1:A1:1607:G:C4	1:A1:1608:U:C5	3.03	0.46
1:A1:1683:C:OP2	1:A1:1684:U:P	2.74	0.46
1:A1:1722:A:H3'	1:A1:1723:U:H6	1.80	0.46
1:A1:1751:C:O2	1:A1:1751:C:C2'	2.62	0.46
1:A1:1776:A:C6	1:A1:1786:G:C6	3.04	0.46
3:AB:243:TYR:O	3:AB:245:ASP:N	2.48	0.46
5:AD:143:ARG:O	5:AD:144:GLU:CB	2.62	0.46
16:AO:29:PRO:O	16:AO:30:SER:CB	2.63	0.46
21:AT:99:THR:O	21:AT:100:TYR:O	2.33	0.46
21:AT:175:ASP:O	21:AT:176:LYS:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ah:1:UNK:O	28:Ah:2:UNK:C	2.64	0.46
29:B1:88:A:C5	29:B1:99:A:C6	3.04	0.46
29:B1:114:A:H2'	29:B1:115:A:O4'	2.15	0.46
29:B1:264:G:C4	29:B1:265:A:C5	3.04	0.46
29:B1:271:C:N4	29:B1:295:A:C8	2.83	0.46
29:B1:279:U:P	74:B1:3536:OHX:N1	2.89	0.46
29:B1:366:A:N6	29:B1:367:A:N1	2.61	0.46
29:B1:543:C:N4	29:B1:544:C:C2	2.84	0.46
29:B1:643:U:O4	29:B1:644:G:C6	2.69	0.46
29:B1:644:G:O6	29:B1:2817:A:OP1	2.34	0.46
29:B1:688:G:C5	29:B1:690:A:N7	2.84	0.46
29:B1:759:U:C2	29:B1:773:G:C6	3.03	0.46
29:B1:835:G:O2'	29:B1:836:A:OP2	2.34	0.46
29:B1:878:G:H2'	29:B1:2980:U:HO2'	1.80	0.46
29:B1:918:C:H2'	29:B1:919:U:O4'	2.16	0.46
29:B1:952:A:H1'	29:B1:1114:U:HO2'	1.80	0.46
29:B1:1179:A:C8	29:B1:1179:A:C3'	2.99	0.46
29:B1:1236:G:H3'	29:B1:1237:G:C4'	2.37	0.46
29:B1:1292:C:C2'	29:B1:1293:U:H5'	2.46	0.46
29:B1:1305:U:O2'	29:B1:1306:G:C8	2.69	0.46
29:B1:1596:C:C2	29:B1:1597:C:C5	3.03	0.46
29:B1:1668:G:C2'	29:B1:1669:C:H5'	2.45	0.46
29:B1:1690:C:C4	29:B1:1691:U:C4	3.03	0.46
29:B1:1870:C:H2'	29:B1:1871:U:O4'	2.15	0.46
29:B1:1942:U:C1'	29:B1:3342:A:H2	2.29	0.46
29:B1:2290:C:N3	29:B1:2303:A:C2	2.83	0.46
29:B1:2386:A:N7	29:B1:2387:A:C8	2.83	0.46
29:B1:2761:G:O6	29:B1:2796:G:H5"	2.15	0.46
29:B1:2794:G:C2	29:B1:2795:U:C2	3.03	0.46
29:B1:2802:A:C8	61:Bf:57:VAL:N	2.76	0.46
29:B1:2895:G:H2'	29:B1:2896:A:H5"	1.97	0.46
29:B1:2899:C:H42	40:BI:173:ARG:CB	2.27	0.46
29:B1:3022:G:HO2'	29:B1:3023:U:P	2.27	0.46
29:B1:3032:A:OP1	29:B1:3032:A:H4'	2.14	0.46
29:B1:3104:U:O4	29:B1:3128:G:H2'	2.16	0.46
29:B1:3367:C:H2'	29:B1:3368:U:C6	2.51	0.46
29:B1:3376:A:N3	29:B1:3376:A:C5'	2.71	0.46
29:B1:3377:G:O2'	29:B1:3378:C:P	2.73	0.46
29:B1:3394:U:O2'	29:B1:3395:G:C8	2.66	0.46
30:B2:66:A:H8	30:B2:66:A:P	2.37	0.46
31:B3:69:U:P	31:B3:70:G:OP2	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:97:A:H2'	31:B3:98:U:H5'	1.98	0.46
31:B3:125:U:C4	74:B3:206:OHX:N6	2.84	0.46
33:BB:4:VAL:C	33:BB:5:ILE:O	2.59	0.46
36:BE:247:ILE:C	36:BE:249:ALA:H	2.22	0.46
38:BG:240:VAL:O	38:BG:241:LYS:C	2.58	0.46
39:BH:232:HIS:O	39:BH:233:TRP:CB	2.62	0.46
47:BR:29:LEU:O	47:BR:30:VAL:C	2.58	0.46
52:BW:56:ARG:HA	52:BW:57:LEU:HA	1.58	0.46
54:BY:70:LYS:O	54:BY:112:ILE:HA	2.15	0.46
1:C1:166:C:C4	1:C1:167:U:C4	3.04	0.46
1:C1:169:A:N9	1:C1:171:A:N7	2.63	0.46
1:C1:379:U:C2	1:C1:380:U:C5	3.03	0.46
1:C1:461:G:C4	1:C1:462:G:C8	3.04	0.46
1:C1:607:G:H4'	1:C1:608:U:C5'	2.46	0.46
1:C1:648:G:C2	1:C1:649:U:C5	3.03	0.46
1:C1:651:G:N2	1:C1:652:G:C6	2.83	0.46
1:C1:710:U:C4	1:C1:729:G:C6	3.04	0.46
1:C1:809:A:C2	1:C1:810:G:C2	3.03	0.46
1:C1:817:A:H2'	1:C1:818:C:C6	2.50	0.46
1:C1:986:G:HO2'	1:C1:987:G:P	2.38	0.46
1:C1:1002:G:C5	1:C1:1003:A:C2	3.03	0.46
1:C1:1021:C:O2	1:C1:1021:C:C2'	2.62	0.46
1:C1:1075:C:N3	1:C1:1076:A:C2	2.83	0.46
1:C1:1092:A:N9	1:C1:1094:G:C8	2.84	0.46
1:C1:1125:A:N7	1:C1:1126:G:H1'	2.31	0.46
1:C1:1267:G:C2'	1:C1:1268:G:H5'	2.45	0.46
1:C1:1294:G:N2	1:C1:1295:G:C4	2.84	0.46
1:C1:1297:G:N2	1:C1:1301:U:C6	2.84	0.46
1:C1:1486:G:H2'	1:C1:1487:A:O4'	2.15	0.46
1:C1:1520:U:C4	74:C1:1930:OHX:N1	2.84	0.46
1:C1:1602:C:C5'	1:C1:1603:U:OP2	2.63	0.46
1:C1:1612:U:O4	1:C1:1613:U:C6	2.68	0.46
2:CA:54:TRP:C	2:CA:56:LYS:N	2.70	0.46
3:CB:126:ARG:C	3:CB:128:GLY:H	2.23	0.46
4:CC:114:ALA:C	4:CC:116:ARG:H	2.23	0.46
4:CC:125:TYR:HA	4:CC:128:GLU:CB	2.45	0.46
5:CD:164:PRO:O	5:CD:167:ARG:N	2.48	0.46
6:CE:59:LEU:C	6:CE:61:THR:H	2.23	0.46
6:CE:117:GLY:HA3	6:CE:179:ARG:CB	2.45	0.46
9:CH:13:VAL:N	9:CH:14:PHE:CB	2.78	0.46
9:CH:25:ASP:O	9:CH:26:THR:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CH:88:GLY:HA2	9:CH:89:THR:HA	1.61	0.46
15:CN:25:THR:H	15:CN:115:GLU:CB	2.28	0.46
16:CO:4:SER:O	16:CO:5:SER:CB	2.64	0.46
25:Cd:108:UNK:O	25:Cd:112:UNK:N	2.49	0.46
29:D1:10:C:O2'	29:D1:11:A:O5'	2.34	0.46
29:D1:31:C:H2'	29:D1:32:U:O4'	2.15	0.46
29:D1:86:G:OP1	29:D1:86:G:H4'	2.15	0.46
29:D1:112:U:C4	29:D1:320:G:N1	2.83	0.46
29:D1:344:A:C5	29:D1:345:G:N7	2.83	0.46
29:D1:422:A:N9	29:D1:423:A:H5"	2.31	0.46
29:D1:536:U:H4'	29:D1:537:A:H5"	1.97	0.46
29:D1:588:G:C4	29:D1:612:U:C5	3.03	0.46
29:D1:737:G:N3	29:D1:738:A:C8	2.83	0.46
29:D1:762:U:OP1	29:D1:763:G:P	2.74	0.46
29:D1:762:U:C2	29:D1:770:G:N2	2.83	0.46
29:D1:780:A:N1	29:D1:781:G:C4	2.83	0.46
29:D1:802:C:C2	29:D1:803:C:C5	3.03	0.46
29:D1:844:G:H5"	29:D1:845:G:P	2.55	0.46
29:D1:965:A:N6	29:D1:966:U:N3	2.63	0.46
29:D1:983:A:N1	29:D1:985:U:O4	2.49	0.46
29:D1:986:U:H2'	29:D1:987:U:C6	2.46	0.46
29:D1:1063:G:OP1	29:D1:1063:G:C4	2.68	0.46
29:D1:1184:A:H2'	29:D1:1185:C:C6	2.50	0.46
29:D1:1205:A:H5"	29:D1:1206:G:OP2	2.16	0.46
29:D1:1236:G:H1'	29:D1:1245:A:H1'	1.96	0.46
29:D1:1271:A:N6	29:D1:1272:C:H42	2.13	0.46
29:D1:1289:G:C2	29:D1:1290:A:C4	3.02	0.46
29:D1:1605:A:C5	29:D1:1608:C:C4	3.04	0.46
29:D1:1687:U:H2'	29:D1:1688:U:O2'	2.15	0.46
29:D1:1699:A:H2'	29:D1:1700:G:H8	1.79	0.46
29:D1:1728:G:O2'	55:DZ:86:ARG:O	2.33	0.46
29:D1:1873:U:O2'	29:D1:1874:A:H5'	2.15	0.46
29:D1:1933:A:N7	29:D1:1934:G:N7	2.63	0.46
29:D1:2096:A:OP2	29:D1:2097:U:OP2	2.33	0.46
29:D1:2191:U:O4	29:D1:2192:C:N4	2.49	0.46
29:D1:2249:G:C4	29:D1:2272:G:N7	2.84	0.46
29:D1:2249:G:N7	74:D1:3464:OHX:N3	2.64	0.46
29:D1:2255:A:O4'	74:D1:3415:OHX:N4	2.49	0.46
29:D1:2561:A:OP1	29:D1:2561:A:H8	1.99	0.46
29:D1:2591:A:C2	29:D1:2592:G:C1'	2.99	0.46
29:D1:2631:U:C2'	29:D1:2632:G:H5'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2712:U:H2'	29:D1:2713:U:O5'	2.14	0.46
29:D1:2714:G:C2	29:D1:2751:G:N1	2.83	0.46
29:D1:2725:U:C4	29:D1:2727:A:C4	3.03	0.46
29:D1:2822:U:C2'	29:D1:2823:G:O5'	2.63	0.46
29:D1:2859:U:H4'	29:D1:2860:U:OP1	2.13	0.46
29:D1:2965:U:C2'	29:D1:2966:G:H5'	2.46	0.46
29:D1:3032:A:C8	29:D1:3032:A:H3'	2.51	0.46
29:D1:3157:U:H3	29:D1:3293:U:C1'	2.27	0.46
29:D1:3364:C:H2'	29:D1:3365:U:H6	1.80	0.46
29:D1:3379:C:H2'	29:D1:3380:U:O4'	2.14	0.46
29:D1:3394:U:C2'	29:D1:3395:G:N7	2.75	0.46
31:D3:3:A:C8	31:D3:3:A:C3'	2.98	0.46
31:D3:74:U:O2	31:D3:74:U:O4'	2.34	0.46
31:D3:74:U:C4	31:D3:77:A:OP1	2.68	0.46
31:D3:77:A:H61	53:DX:81:GLN:CB	2.29	0.46
31:D3:113:U:O2'	31:D3:114:G:OP1	2.31	0.46
35:DD:31:ARG:O	35:DD:32:PRO:C	2.58	0.46
35:DD:69:ARG:O	35:DD:70:ALA:HB3	2.14	0.46
39:DH:168:ALA:C	39:DH:170:CYS:N	2.74	0.46
72:DL:131:GLU:O	72:DL:133:LEU:N	2.48	0.46
73:DM:85:GLY:O	73:DM:86:PHE:O	2.34	0.46
43:DN:33:ALA:HA	43:DN:48:GLY:CA	2.45	0.46
45:DP:130:LYS:HA	45:DP:131:PRO:CB	2.44	0.46
46:DQ:44:ALA:O	46:DQ:45:GLN:C	2.59	0.46
46:DQ:76:PHE:CB	46:DQ:77:GLY:HA2	2.45	0.46
48:DS:59:SER:C	48:DS:61:SER:N	2.74	0.46
58:Dc:23:ASP:O	58:Dc:24:LEU:C	2.59	0.46
58:Dc:60:GLU:C	58:Dc:62:GLN:N	2.74	0.46
1:A1:14:C:OP1	3:AB:163:GLY:N	2.49	0.46
1:A1:378:A:H2'	1:A1:379:U:O5'	2.16	0.46
1:A1:381:C:N3	1:A1:382:C:C5	2.84	0.46
1:A1:384:G:C6	1:A1:385:A:C6	3.04	0.46
1:A1:488:G:O2'	1:A1:489:C:C6	2.66	0.46
1:A1:607:G:H4'	1:A1:608:U:OP2	2.14	0.46
1:A1:615:A:C2	1:A1:616:G:C8	3.04	0.46
1:A1:644:C:N4	1:A1:691:C:N4	2.59	0.46
1:A1:737:A:O2'	1:A1:738:G:H8	1.90	0.46
1:A1:926:A:H2	9:AH:125:SER:HA	1.80	0.46
1:A1:985:G:H2'	1:A1:986:G:C8	2.49	0.46
1:A1:1030:A:H3'	1:A1:1031:U:C5'	2.38	0.46
1:A1:1151:A:C4	1:A1:1152:A:C8	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1241:G:C2	1:A1:1243:G:H8	2.33	0.46
1:A1:1391:A:C8	1:A1:1412:G:C6	3.04	0.46
1:A1:1419:G:C6	1:A1:1420:C:O2	2.68	0.46
1:A1:1453:G:H2'	1:A1:1454:G:H8	1.81	0.46
1:A1:1494:C:H2'	1:A1:1495:C:O5'	2.15	0.46
1:A1:1527:C:C2	1:A1:1528:U:C5	3.04	0.46
1:A1:1550:A:C4	1:A1:1551:U:C5	3.04	0.46
1:A1:1651:A:N3	1:A1:1651:A:H2'	2.31	0.46
1:A1:1651:A:C2	1:A1:1652:C:C2	3.04	0.46
1:A1:1671:A:C8	1:A1:1731:A:C6	3.03	0.46
1:A1:1744:A:C2'	1:A1:1745:G:H5'	2.45	0.46
1:A1:1760:G:C4	1:A1:1761:U:C5	2.98	0.46
8:AG:49:GLN:CA	8:AG:50:ILE:CB	2.94	0.46
10:AI:66:ALA:O	10:AI:67:ALA:HB3	2.15	0.46
11:AJ:125:GLU:O	11:AJ:126:PRO:O	2.34	0.46
13:AL:109:LEU:O	13:AL:110:ARG:C	2.58	0.46
14:AM:58:ALA:C	14:AM:60:SER:N	2.71	0.46
17:AP:46:SER:C	17:AP:48:HIS:N	2.74	0.46
21:AT:42:LEU:O	21:AT:60:SER:CA	2.64	0.46
24:Ac:8:UNK:O	24:Ac:66:UNK:HA	2.15	0.46
29:B1:8:C:C2	29:B1:9:U:C5	3.01	0.46
29:B1:68:C:C4	29:B1:76:G:N2	2.84	0.46
29:B1:115:A:C4	29:B1:116:A:N1	2.83	0.46
29:B1:250:U:O2	29:B1:250:U:C2'	2.56	0.46
29:B1:252:U:C3'	29:B1:253:A:H5'	2.45	0.46
29:B1:290:G:C4	29:B1:291:C:C5	3.04	0.46
29:B1:344:A:C6	29:B1:345:G:C5	3.04	0.46
29:B1:346:C:C5	29:B1:348:A:C8	3.04	0.46
29:B1:429:U:H2'	29:B1:430:U:C6	2.50	0.46
29:B1:594:U:C6	29:B1:609:G:N2	2.71	0.46
29:B1:600:G:C5	74:B1:3620:OHX:N1	2.84	0.46
29:B1:643:U:C4	29:B1:644:G:C5	3.03	0.46
29:B1:650:C:H2'	29:B1:650:C:O2	2.15	0.46
29:B1:683:U:H2'	29:B1:684:G:C5'	2.45	0.46
29:B1:807:A:N6	29:B1:934:G:H1	2.13	0.46
29:B1:809:G:H2'	29:B1:810:A:H8	1.81	0.46
29:B1:974:G:N3	29:B1:975:C:C6	2.84	0.46
29:B1:991:G:C2	29:B1:992:A:H1'	2.50	0.46
29:B1:1077:U:O2'	29:B1:1078:U:P	2.73	0.46
29:B1:1128:U:O2	29:B1:1129:A:C1'	2.64	0.46
29:B1:1140:G:C2	29:B1:1141:C:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1145:G:N2	29:B1:1160:C:O4'	2.48	0.46
29:B1:1166:G:C3'	29:B1:1167:U:H5"	2.46	0.46
29:B1:1186:G:C2'	29:B1:1187:C:O5'	2.63	0.46
29:B1:1228:C:N3	29:B1:1282:G:C2	2.83	0.46
29:B1:1319:G:C4	29:B1:1320:C:C5	3.04	0.46
29:B1:1342:C:O2	29:B1:1342:C:C2'	2.62	0.46
29:B1:1390:A:C5	29:B1:1418:A:C6	3.03	0.46
29:B1:1413:G:N3	29:B1:1413:G:H2'	2.31	0.46
29:B1:1448:U:O4	29:B1:2355:G:N3	2.48	0.46
29:B1:1490:A:N6	29:B1:1838:G:H1'	2.31	0.46
29:B1:1511:U:H3'	29:B1:1512:U:C6	2.51	0.46
29:B1:1619:A:C2	29:B1:1826:C:N3	2.84	0.46
29:B1:1677:G:C5	29:B1:1678:G:N7	2.83	0.46
29:B1:1774:C:O2	29:B1:1774:C:H2'	2.14	0.46
29:B1:1818:U:H2'	29:B1:1819:U:N1	2.29	0.46
29:B1:1901:A:H5"	29:B1:1902:G:OP2	2.14	0.46
29:B1:2104:A:H2'	29:B1:2105:G:H5"	1.98	0.46
29:B1:2289:U:N3	29:B1:2290:C:C5	2.84	0.46
29:B1:2300:G:C2	29:B1:2301:U:C2	3.04	0.46
29:B1:2433:U:H1'	44:BO:125:SER:CB	2.45	0.46
29:B1:2761:G:O6	29:B1:2798:C:H1'	2.15	0.46
29:B1:2783:U:C2'	29:B1:2784:G:O5'	2.63	0.46
29:B1:2813:A:C6	29:B1:2814:G:C5	3.03	0.46
29:B1:2821:C:H2'	29:B1:2822:U:H5'	1.97	0.46
29:B1:2852:C:C5	29:B1:2853:A:C5	3.03	0.46
29:B1:2893:C:C2'	29:B1:2894:C:O5'	2.63	0.46
29:B1:2960:C:H2'	29:B1:2961:G:C8	2.50	0.46
29:B1:3060:C:H2'	29:B1:3061:G:O5'	2.15	0.46
29:B1:3136:G:C2	29:B1:3137:C:C6	3.03	0.46
29:B1:3196:U:OP2	29:B1:3196:U:N3	2.48	0.46
29:B1:3205:G:H2'	29:B1:3205:G:N3	2.30	0.46
29:B1:3316:A:N6	29:B1:3320:A:C6	2.67	0.46
29:B1:3325:G:C2'	29:B1:3326:G:O4'	2.63	0.46
30:B2:12:U:C6	30:B2:70:U:OP1	2.68	0.46
30:B2:22:A:C6	30:B2:23:A:N1	2.84	0.46
30:B2:40:C:O2	30:B2:40:C:H2'	2.16	0.46
30:B2:66:A:C5	30:B2:67:G:H8	2.34	0.46
30:B2:85:G:N7	74:B2:204:OHX:N1	2.63	0.46
30:B2:111:U:H4'	30:B2:112:G:O3'	2.14	0.46
31:B3:125:U:O4	74:B3:206:OHX:N5	2.48	0.46
36:BE:244:HIS:HA	36:BE:248:ARG:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BG:167:ALA:HB3	38:BG:176:TYR:CB	2.45	0.46
42:BK:19:LEU:O	42:BK:68:HIS:O	2.34	0.46
42:BK:147:THR:C	42:BK:148:VAL:O	2.58	0.46
47:BR:43:PRO:O	47:BR:44:PHE:C	2.58	0.46
47:BR:102:ALA:HB3	47:BR:122:ILE:N	2.31	0.46
48:BS:169:ALA:HA	48:BS:172:ARG:CB	2.46	0.46
52:BW:127:THR:O	52:BW:129:ASP:N	2.49	0.46
54:BY:6:THR:C	54:BY:8:THR:N	2.70	0.46
55:BZ:43:ILE:O	55:BZ:89:VAL:HA	2.15	0.46
1:C1:43:A:H4'	1:C1:99:C:P	2.56	0.46
1:C1:112:A:C4'	1:C1:113:U:OP1	2.55	0.46
1:C1:170:U:C3'	1:C1:171:A:C5'	2.94	0.46
1:C1:198:A:H1'	1:C1:199:G:P	2.54	0.46
1:C1:287:G:O6	1:C1:288:A:C6	2.69	0.46
1:C1:287:G:H2'	1:C1:288:A:H5'	1.96	0.46
1:C1:302:U:N3	1:C1:303:U:O2	2.49	0.46
1:C1:389:G:C6	1:C1:390:G:C6	3.03	0.46
1:C1:410:A:C6	1:C1:411:C:C4	3.04	0.46
1:C1:427:C:O2'	1:C1:428:A:O4'	2.24	0.46
1:C1:514:G:C5	1:C1:515:A:N7	2.83	0.46
1:C1:866:G:H2'	1:C1:867:G:H8	1.80	0.46
1:C1:994:G:C6	1:C1:1011:G:N2	2.84	0.46
1:C1:1119:G:C5	1:C1:1120:U:C5	3.04	0.46
1:C1:1211:A:C4	1:C1:1212:G:C8	3.04	0.46
1:C1:1262:U:H2'	1:C1:1263:G:C8	2.50	0.46
1:C1:1389:C:N4	1:C1:1391:A:C1'	2.79	0.46
1:C1:1472:C:O2'	5:CD:188:LYS:HA	2.15	0.46
1:C1:1515:A:C6	15:CN:16:GLN:O	2.69	0.46
1:C1:1524:A:C2'	1:C1:1525:A:H8	2.24	0.46
1:C1:1550:A:C2'	1:C1:1551:U:H5'	2.46	0.46
1:C1:1559:A:N3	1:C1:1559:A:C2'	2.68	0.46
1:C1:1605:G:N7	1:C1:1606:C:C5	2.84	0.46
1:C1:1636:C:N4	1:C1:1638:G:N2	2.64	0.46
1:C1:1764:C:OP2	1:C1:1771:U:H5"	2.15	0.46
5:CD:93:LEU:C	5:CD:95:ASN:N	2.73	0.46
5:CD:136:ALA:C	5:CD:138:THR:H	2.23	0.46
5:CD:189:THR:CB	5:CD:192:GLU:CB	2.94	0.46
11:CJ:105:LEU:O	11:CJ:106:LYS:C	2.58	0.46
13:CL:109:LEU:O	13:CL:110:ARG:C	2.59	0.46
23:Cb:15:UNK:O	23:Cb:16:UNK:CB	2.62	0.46
29:D1:11:A:C2	31:D3:148:G:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:40:A:C2'	29:D1:41:G:H5'	2.45	0.46
29:D1:65:A:C4	29:D1:110:G:N7	2.83	0.46
29:D1:71:A:N7	29:D1:72:C:C4	2.84	0.46
29:D1:282:G:N3	29:D1:286:U:C5'	2.79	0.46
29:D1:287:G:H2'	29:D1:288:C:O5'	2.16	0.46
29:D1:310:U:H5'	29:D1:311:C:OP2	2.16	0.46
29:D1:396:A:C4'	29:D1:397:A:OP1	2.64	0.46
29:D1:421:G:C8	29:D1:421:G:C4'	2.98	0.46
29:D1:432:G:H1	29:D1:627:U:H3	1.62	0.46
29:D1:505:G:C2'	29:D1:506:U:O5'	2.63	0.46
29:D1:520:U:H4'	29:D1:521:A:C5'	2.45	0.46
29:D1:559:A:O2'	29:D1:560:G:C5'	2.63	0.46
29:D1:597:G:H2'	29:D1:598:A:C8	2.48	0.46
29:D1:656:A:C6	29:D1:1440:G:N1	2.83	0.46
29:D1:808:A:O2'	29:D1:2413:A:H5'	2.15	0.46
29:D1:880:G:OP2	46:DQ:131:ARG:CA	2.61	0.46
29:D1:969:C:O2	29:D1:969:C:C2'	2.58	0.46
29:D1:1019:G:N2	29:D1:1033:U:O2	2.31	0.46
29:D1:1212:A:C3'	29:D1:1213:G:C5'	2.91	0.46
29:D1:1237:G:C5	29:D1:1238:C:C5	3.03	0.46
29:D1:1311:G:O2'	29:D1:2381:G:H4'	2.15	0.46
29:D1:1326:A:C2	29:D1:1327:C:C2	3.04	0.46
29:D1:1488:G:H5'	29:D1:1838:G:O6	2.16	0.46
29:D1:1495:U:N1	29:D1:1842:A:C2	2.84	0.46
29:D1:1556:C:O2'	29:D1:1557:A:OP2	2.32	0.46
29:D1:1653:G:H2'	29:D1:1654:A:C5'	2.35	0.46
29:D1:1674:G:C6	29:D1:1675:G:C5	3.04	0.46
29:D1:1720:U:C6	29:D1:1720:U:C3'	2.99	0.46
29:D1:1806:A:N3	29:D1:1807:G:H1'	2.31	0.46
29:D1:1881:A:C6	29:D1:2352:A:C6	3.03	0.46
29:D1:1895:A:N1	29:D1:2341:A:C6	2.84	0.46
29:D1:1900:A:O2'	29:D1:1906:G:N7	2.43	0.46
29:D1:1907:C:C6	29:D1:1907:C:C3'	2.99	0.46
29:D1:1919:G:C2	29:D1:1920:U:C2	3.04	0.46
29:D1:1939:G:C2'	29:D1:1940:G:C5'	2.88	0.46
29:D1:2111:G:N2	51:DV:48:ARG:O	2.48	0.46
29:D1:2253:G:H3'	29:D1:2254:U:H6	1.75	0.46
29:D1:2259:A:C6	29:D1:2260:U:C2	3.03	0.46
29:D1:2270:A:C2'	29:D1:2271:A:C8	2.93	0.46
29:D1:2283:G:H1'	29:D1:2284:C:H5	1.79	0.46
29:D1:2357:A:H2'	29:D1:2358:A:O5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2730:G:N2	29:D1:2731:U:H1'	2.31	0.46
29:D1:2761:G:N2	29:D1:2795:U:C6	2.84	0.46
29:D1:2844:C:H42	29:D1:2898:G:N2	2.13	0.46
29:D1:2900:A:O2'	29:D1:2901:G:C5'	2.63	0.46
29:D1:2919:A:H3'	29:D1:2920:U:C5'	2.45	0.46
29:D1:3102:G:O2'	29:D1:3103:A:OP1	2.29	0.46
29:D1:3114:A:N6	29:D1:3115:C:H5	2.14	0.46
29:D1:3315:G:OP1	29:D1:3316:A:OP1	2.33	0.46
29:D1:3315:G:P	29:D1:3316:A:OP1	2.73	0.46
30:D2:23:A:O5'	30:D2:23:A:H8	1.99	0.46
30:D2:67:G:O6	30:D2:68:C:N3	2.49	0.46
31:D3:49:G:C2	31:D3:50:C:C6	3.03	0.46
31:D3:123:G:C5'	74:D3:205:OHX:N5	2.78	0.46
32:DA:150:ASP:C	32:DA:152:ARG:N	2.74	0.46
34:DC:138:ALA:O	34:DC:140:ASP:N	2.49	0.46
37:DF:150:LYS:C	37:DF:152:THR:N	2.72	0.46
39:DH:100:GLU:CB	39:DH:103:ALA:HB3	2.46	0.46
72:DL:82:ILE:C	72:DL:84:ALA:H	2.24	0.46
46:DQ:51:VAL:O	46:DQ:52:LEU:CB	2.64	0.46
47:DR:75:GLY:O	47:DR:76:ALA:CB	2.64	0.46
57:Db:22:SER:HA	57:Db:28:VAL:CB	2.46	0.46
62:Dg:25:GLN:C	62:Dg:27:LYS:N	2.73	0.46
64:Di:4:UNK:C	64:Di:6:UNK:N	2.75	0.46
1:A1:21:U:O2	1:A1:605:A:H2	1.99	0.46
1:A1:40:A:C8	1:A1:41:A:C8	3.02	0.46
1:A1:138:A:O2'	1:A1:139:C:P	2.73	0.46
1:A1:194:U:H5'	1:A1:195:G:O4'	2.15	0.46
1:A1:364:G:N2	1:A1:381:C:C1'	2.79	0.46
1:A1:394:C:C3'	1:A1:395:U:H5'	2.46	0.46
1:A1:398:G:H5"	1:A1:399:A:P	2.56	0.46
1:A1:406:U:OP2	1:A1:406:U:C6	2.68	0.46
1:A1:530:C:C5'	1:A1:531:C:OP2	2.60	0.46
1:A1:551:G:N3	1:A1:551:G:H2'	2.29	0.46
1:A1:581:U:O2	1:A1:581:U:C2'	2.61	0.46
1:A1:631:G:H2'	1:A1:632:U:H5'	1.98	0.46
1:A1:794:U:O2	1:A1:794:U:H2'	2.16	0.46
1:A1:866:G:C2	1:A1:867:G:N7	2.83	0.46
1:A1:913:G:H1'	1:A1:914:G:OP1	2.16	0.46
1:A1:1025:A:H2'	1:A1:1027:A:O5'	2.14	0.46
1:A1:1099:U:O2'	1:A1:1100:G:C1'	2.63	0.46
1:A1:1274:C:O2'	1:A1:1275:A:P	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1279:C:H2'	1:A1:1280:C:O4'	2.16	0.46
1:A1:1388:A:C6	1:A1:1411:A:C6	3.03	0.46
1:A1:1609:U:H3'	1:A1:1610:G:H8	1.80	0.46
1:A1:1654:G:H2'	1:A1:1745:G:H22	1.78	0.46
1:A1:1683:C:H5"	1:A1:1722:A:H2	1.80	0.46
2:AA:84:ARG:C	2:AA:86:VAL:N	2.73	0.46
3:AB:107:SER:CA	3:AB:190:LEU:O	2.64	0.46
3:AB:161:LYS:CB	3:AB:209:ASN:HA	2.46	0.46
4:AC:117:ARG:HA	4:AC:120:TYR:CB	2.46	0.46
6:AE:59:LEU:C	6:AE:61:THR:N	2.73	0.46
9:AH:52:ARG:CB	9:AH:53:ASP:HA	2.46	0.46
9:AH:71:CYS:C	9:AH:73:GLU:N	2.73	0.46
11:AJ:81:ILE:C	11:AJ:84:ALA:HB3	2.39	0.46
13:AL:76:PRO:HA	13:AL:81:ILE:N	2.31	0.46
16:AO:125:ILE:O	16:AO:127:GLY:N	2.48	0.46
28:Ah:20:UNK:O	28:Ah:24:UNK:O	2.34	0.46
29:B1:10:C:O2	29:B1:10:C:C2'	2.62	0.46
29:B1:99:A:H1'	29:B1:281:G:O6	2.16	0.46
29:B1:107:A:C2	29:B1:108:A:C4	3.03	0.46
29:B1:123:A:H2	29:B1:145:G:H22	1.64	0.46
29:B1:156:G:C4	29:B1:158:G:OP2	2.68	0.46
29:B1:281:G:N1	29:B1:282:G:O6	2.48	0.46
29:B1:355:A:N1	29:B1:365:A:N9	2.64	0.46
29:B1:377:A:C5'	29:B1:378:A:OP1	2.64	0.46
29:B1:405:U:O4	29:B1:406:G:N1	2.48	0.46
29:B1:593:C:H2'	29:B1:594:U:H5'	1.98	0.46
29:B1:606:C:N3	29:B1:607:A:C6	2.83	0.46
29:B1:648:C:O2	29:B1:648:C:O4'	2.32	0.46
29:B1:723:U:C6	29:B1:723:U:C3'	2.99	0.46
29:B1:750:G:N1	29:B1:784:A:N9	2.64	0.46
29:B1:817:A:C5	59:Bd:14:LYS:HA	2.51	0.46
29:B1:841:A:H5"	48:BS:125:LYS:O	2.16	0.46
29:B1:1047:A:N1	29:B1:2646:C:O2	2.49	0.46
29:B1:1057:A:N6	29:B1:1058:U:C4	2.83	0.46
29:B1:1105:A:C2	29:B1:1106:G:C4	3.03	0.46
29:B1:1140:G:H2'	29:B1:1140:G:N3	2.30	0.46
29:B1:1196:C:C2	30:B2:86:U:C6	3.04	0.46
29:B1:1204:A:H1'	29:B1:2855:U:C1'	2.46	0.46
29:B1:1275:C:C5	29:B1:1276:U:C4	3.04	0.46
29:B1:1302:A:N9	29:B1:2887:A:N1	2.63	0.46
29:B1:1366:A:H2'	29:B1:1367:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1454:A:OP2	29:B1:1878:G:O6	2.34	0.46
29:B1:1493:G:N3	29:B1:1493:G:O5'	2.48	0.46
29:B1:1617:G:H2'	29:B1:1618:G:H5'	1.98	0.46
29:B1:1703:U:O2'	29:B1:1743:G:C2	2.68	0.46
29:B1:1798:A:N1	29:B1:1799:A:C6	2.84	0.46
29:B1:1933:A:N7	29:B1:1934:G:N7	2.63	0.46
29:B1:1948:G:C2	29:B1:1949:G:C8	3.04	0.46
29:B1:2234:G:C5	29:B1:2235:C:C5	3.04	0.46
29:B1:2240:G:C2'	29:B1:2241:U:O5'	2.64	0.46
29:B1:2284:C:N4	29:B1:2308:C:OP2	2.48	0.46
29:B1:2291:A:N1	29:B1:2292:U:C2	2.84	0.46
29:B1:2349:U:C2	29:B1:2350:C:C5	3.03	0.46
29:B1:2429:G:C2'	29:B1:2430:A:H5'	2.45	0.46
29:B1:2847:A:N6	29:B1:2898:G:N3	2.64	0.46
29:B1:2898:G:OP2	29:B1:2899:C:C6	2.69	0.46
29:B1:3035:A:C6	29:B1:3036:G:C5	3.04	0.46
29:B1:3122:A:C2'	29:B1:3123:A:C5'	2.72	0.46
29:B1:3219:G:OP1	29:B1:3220:G:C5'	2.58	0.46
29:B1:3273:A:N1	29:B1:3274:A:C6	2.84	0.46
29:B1:3367:C:C2'	29:B1:3368:U:C5'	2.90	0.46
29:B1:3380:U:O4	74:B1:3456:OHX:N4	2.49	0.46
29:B1:3394:U:C2'	29:B1:3395:G:C8	2.97	0.46
30:B2:68:C:O2'	30:B2:69:C:H4'	2.16	0.46
30:B2:97:A:C2'	30:B2:98:C:C6	2.93	0.46
30:B2:106:U:C2	30:B2:107:C:C6	3.00	0.46
31:B3:1:A:H2'	31:B3:2:A:O5'	2.16	0.46
31:B3:9:A:C2	31:B3:10:A:C5	3.03	0.46
31:B3:26:U:C4	31:B3:27:U:O4	2.69	0.46
31:B3:74:U:O2'	31:B3:89:A:C1'	2.64	0.46
33:BB:82:VAL:O	33:BB:84:THR:N	2.49	0.46
34:BC:142:ALA:C	34:BC:144:ILE:N	2.69	0.46
36:BE:157:ALA:O	36:BE:158:ARG:C	2.58	0.46
37:BF:5:LYS:O	37:BF:6:ALA:HB2	2.15	0.46
44:BO:56:LYS:HA	44:BO:57:GLN:HA	1.50	0.46
45:BP:63:ALA:O	45:BP:64:PHE:CB	2.62	0.46
45:BP:139:GLY:O	45:BP:142:SER:CB	2.64	0.46
45:BP:162:VAL:O	45:BP:164:SER:N	2.49	0.46
46:BQ:99:ALA:HA	46:BQ:102:ALA:HB3	1.96	0.46
48:BS:84:THR:O	48:BS:87:ALA:N	2.48	0.46
49:BT:84:TYR:O	49:BT:85:LEU:O	2.34	0.46
53:BX:36:SER:O	53:BX:39:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:Bc:48:ARG:O	58:Bc:49:LYS:C	2.58	0.46
70:Bq:16:UNK:O	70:Bq:17:UNK:C	2.62	0.46
1:C1:11:A:H2'	1:C1:12:U:O4'	2.16	0.46
1:C1:151:G:C2	1:C1:164:A:C2	3.04	0.46
1:C1:151:G:N1	1:C1:163:G:N2	2.37	0.46
1:C1:207:U:N3	1:C1:208:U:C4	2.83	0.46
1:C1:289:U:N3	1:C1:290:G:C8	2.80	0.46
1:C1:378:A:OP1	1:C1:378:A:O4'	2.33	0.46
1:C1:428:A:H2	1:C1:440:U:O2	1.99	0.46
1:C1:478:A:C2	1:C1:510:G:C2	3.04	0.46
1:C1:550:A:C4'	1:C1:556:A:C6	2.99	0.46
1:C1:557:G:C3'	1:C1:558:U:H4'	2.45	0.46
1:C1:614:C:N3	1:C1:615:A:C8	2.84	0.46
1:C1:622:A:H4'	1:C1:623:A:O5'	2.13	0.46
1:C1:642:G:O6	1:C1:643:G:C6	2.69	0.46
1:C1:697:C:O2	1:C1:697:C:O4'	2.30	0.46
1:C1:993:A:OP1	1:C1:1777:G:N2	2.39	0.46
1:C1:1086:A:H2'	1:C1:1087:A:O4'	2.16	0.46
1:C1:1390:U:H1'	1:C1:1413:U:C2	2.51	0.46
1:C1:1543:A:H1'	1:C1:1569:A:N1	2.31	0.46
1:C1:1670:G:H8	1:C1:1670:G:O5'	1.99	0.46
1:C1:1673:G:H2'	1:C1:1674:C:H6	1.80	0.46
1:C1:1753:A:C2	1:C1:1754:A:C2	3.03	0.46
2:CA:13:ASP:C	2:CA:17:LEU:C	2.82	0.46
2:CA:70:PRO:O	2:CA:71:GLU:CB	2.64	0.46
5:CD:184:PHE:HA	5:CD:185:ARG:HA	1.72	0.46
5:CD:185:ARG:C	5:CD:187:ILE:H	2.22	0.46
6:CE:100:LYS:CA	6:CE:104:PHE:H	2.29	0.46
8:CG:82:PRO:O	8:CG:83:GLU:C	2.59	0.46
8:CG:84:ILE:HA	8:CG:85:PRO:HA	1.74	0.46
10:CI:76:VAL:O	10:CI:94:VAL:HA	2.15	0.46
11:CJ:10:PHE:N	11:CJ:18:ALA:O	2.49	0.46
13:CL:76:PRO:C	13:CL:78:HIS:H	2.22	0.46
13:CL:124:GLY:C	13:CL:126:ARG:H	2.22	0.46
20:CS:19:ARG:O	20:CS:20:GLN:O	2.33	0.46
21:CT:269:TYR:O	21:CT:271:VAL:N	2.49	0.46
29:D1:53:G:C5	29:D1:54:C:C5	3.03	0.46
29:D1:60:A:C8	29:D1:327:A:N1	2.84	0.46
29:D1:71:A:H5'	29:D1:73:C:H42	1.81	0.46
29:D1:94:G:C5	29:D1:95:A:C5	3.04	0.46
29:D1:96:G:H2'	29:D1:97:U:O5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:136:G:H2'	29:D1:136:G:N3	2.29	0.46
29:D1:221:A:C5	29:D1:224:C:N4	2.84	0.46
29:D1:245:U:O4	74:D1:3495:OHX:N4	2.48	0.46
29:D1:246:U:OP1	29:D1:247:C:H5"	2.15	0.46
29:D1:334:A:C2'	29:D1:335:G:H8	2.06	0.46
29:D1:535:G:C3'	29:D1:536:U:C5	2.94	0.46
29:D1:595:G:C4	29:D1:596:C:C6	3.03	0.46
29:D1:652:G:C2	29:D1:2361:A:O4'	2.68	0.46
29:D1:682:U:C6	29:D1:683:U:C5	3.03	0.46
29:D1:952:A:C2	29:D1:1114:U:H4'	2.50	0.46
29:D1:953:G:O2'	29:D1:954:U:O5'	2.33	0.46
29:D1:975:C:C2	29:D1:976:U:C5	3.03	0.46
29:D1:1009:A:H5"	29:D1:1010:G:P	2.56	0.46
29:D1:1050:U:C2'	29:D1:1051:U:O5'	2.64	0.46
29:D1:1062:A:HO2'	29:D1:1063:G:P	2.28	0.46
29:D1:1076:C:H4'	29:D1:1077:U:OP1	2.14	0.46
29:D1:1180:A:C2	29:D1:1182:A:C5	3.04	0.46
29:D1:1192:C:OP2	29:D1:1192:C:C1'	2.64	0.46
29:D1:1442:U:O2'	29:D1:1443:G:O5'	2.17	0.46
29:D1:1504:A:C8	29:D1:1505:C:H5	2.32	0.46
29:D1:1535:A:H8	29:D1:1536:G:C8	2.34	0.46
29:D1:1561:G:H2'	29:D1:1562:C:C6	2.51	0.46
29:D1:1678:G:H4'	29:D1:1756:C:H4'	1.98	0.46
29:D1:1791:C:H2'	29:D1:1792:C:C5	2.50	0.46
29:D1:1867:A:C5	29:D1:1868:G:C5	3.04	0.46
29:D1:1921:A:C8	29:D1:1932:A:C5	3.04	0.46
29:D1:1948:G:H2'	29:D1:1949:G:H8	1.80	0.46
29:D1:2112:U:O2	29:D1:2113:A:C6	2.69	0.46
29:D1:2269:U:N1	29:D1:2272:G:O6	2.49	0.46
29:D1:2279:A:N7	29:D1:2288:G:C5	2.82	0.46
29:D1:2400:G:O4'	29:D1:2401:A:OP1	2.33	0.46
29:D1:2412:G:N3	29:D1:2413:A:C8	2.84	0.46
29:D1:2541:U:O2	29:D1:2542:U:H4'	2.14	0.46
29:D1:2698:G:C4	29:D1:2699:G:C8	3.03	0.46
29:D1:2779:A:C4	29:D1:2780:A:C8	3.03	0.46
29:D1:2813:A:C2	29:D1:2814:G:C4	3.04	0.46
29:D1:3036:G:C2'	29:D1:3037:U:O5'	2.64	0.46
29:D1:3058:U:OP1	29:D1:3058:U:C3'	2.61	0.46
29:D1:3073:A:H2'	29:D1:3074:G:O4'	2.16	0.46
29:D1:3113:A:N6	29:D1:3114:A:N1	2.63	0.46
29:D1:3141:A:O4'	29:D1:3143:C:C2'	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3201:C:N4	29:D1:3202:G:O6	2.49	0.46
29:D1:3259:U:O3'	29:D1:3260:G:C8	2.68	0.46
29:D1:3325:G:H2'	29:D1:3326:G:H8	1.81	0.46
30:D2:60:G:C2	30:D2:61:G:N7	2.84	0.46
30:D2:103:A:H2'	30:D2:104:A:C8	2.51	0.46
31:D3:14:C:C5'	31:D3:15:G:OP2	2.64	0.46
31:D3:52:A:C6	31:D3:53:A:C5	3.03	0.46
34:DC:292:ALA:HA	34:DC:293:ASN:HA	1.36	0.46
35:DD:57:GLY:C	35:DD:59:GLN:H	2.23	0.46
35:DD:82:THR:O	35:DD:84:ARG:N	2.48	0.46
35:DD:159:ILE:C	35:DD:161:LYS:N	2.74	0.46
38:DG:47:ARG:O	38:DG:49:ALA:O	2.33	0.46
38:DG:154:GLY:C	38:DG:156:ILE:H	2.23	0.46
39:DH:98:ARG:O	39:DH:99:PRO:O	2.33	0.46
42:DK:87:LYS:O	42:DK:88:GLU:C	2.59	0.46
42:DK:133:ARG:CB	42:DK:153:LYS:O	2.63	0.46
44:DO:100:ALA:O	44:DO:103:GLU:N	2.48	0.46
47:DR:18:ALA:O	47:DR:19:PRO:C	2.58	0.46
47:DR:98:LYS:N	47:DR:117:ALA:HB1	2.31	0.46
48:DS:183:ALA:C	48:DS:185:LEU:H	2.24	0.46
55:DZ:9:SER:O	55:DZ:13:LYS:N	2.48	0.46
1:A1:184:C:C4	1:A1:202:A:C2	3.04	0.46
1:A1:192:U:H3'	1:A1:192:U:C6	2.50	0.46
1:A1:248:U:O2'	1:A1:249:U:C5'	2.63	0.46
1:A1:337:G:H5"	1:A1:338:C:C5	2.51	0.46
1:A1:381:C:H1'	1:A1:756:A:H2	1.80	0.46
1:A1:514:G:C2	1:A1:515:A:C8	3.03	0.46
1:A1:514:G:C4	1:A1:515:A:C8	3.03	0.46
1:A1:601:A:C5	1:A1:602:U:C5	3.04	0.46
1:A1:629:U:C2	1:A1:971:A:C6	3.03	0.46
1:A1:887:A:N3	1:A1:888:U:C6	2.84	0.46
1:A1:910:C:N4	1:A1:911:U:C4	2.84	0.46
1:A1:939:A:C2	1:A1:940:A:C4	3.04	0.46
1:A1:1186:U:H2'	1:A1:1187:U:C5'	2.46	0.46
1:A1:1209:C:N3	1:A1:1455:G:N2	2.63	0.46
1:A1:1273:G:C3'	1:A1:1274:C:H5'	2.42	0.46
1:A1:1310:U:O2'	1:A1:1311:U:O5'	2.30	0.46
1:A1:1354:G:C5	1:A1:1355:C:C5	3.02	0.46
1:A1:1359:C:H2'	1:A1:1360:A:H8	1.81	0.46
1:A1:1420:C:C6	1:A1:1420:C:C3'	2.99	0.46
1:A1:1440:C:O2'	1:A1:1441:C:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1470:C:OP1	1:A1:1471:A:H1'	2.15	0.46
1:A1:1534:G:H4'	1:A1:1536:G:C6	2.51	0.46
1:A1:1761:U:C2'	1:A1:1762:A:OP2	2.64	0.46
5:AD:44:ASN:O	5:AD:46:TRP:N	2.49	0.46
6:AE:96:VAL:O	6:AE:99:LEU:N	2.48	0.46
7:AF:132:SER:O	7:AF:134:THR:N	2.49	0.46
15:AN:40:ASN:O	15:AN:41:ILE:CB	2.63	0.46
21:AT:288:HIS:O	21:AT:289:ALA:C	2.56	0.46
24:Ac:3:UNK:O	24:Ac:99:UNK:N	2.45	0.46
26:Ae:10:UNK:O	26:Ae:12:UNK:N	2.49	0.46
28:Ah:60:UNK:CA	29:B1:3352:U:H1'	2.46	0.46
29:B1:40:A:C2'	29:B1:41:G:H5'	2.45	0.46
29:B1:157:A:O2'	29:B1:158:G:C8	2.67	0.46
29:B1:191:U:H2'	29:B1:192:C:C6	2.51	0.46
29:B1:222:A:C5	29:B1:223:U:C4	3.04	0.46
29:B1:347:G:H8	29:B1:347:G:O5'	1.99	0.46
29:B1:361:A:HO2'	29:B1:362:U:P	2.39	0.46
29:B1:372:A:C6	29:B1:373:A:C5	3.04	0.46
29:B1:415:G:C4	29:B1:416:A:C8	3.03	0.46
29:B1:537:A:OP1	29:B1:538:G:H5'	2.16	0.46
29:B1:539:C:H2'	29:B1:540:U:C6	2.51	0.46
29:B1:648:C:H6	29:B1:2375:G:OP2	1.99	0.46
29:B1:693:A:C5	29:B1:694:C:C5	3.04	0.46
29:B1:715:A:O2'	29:B1:716:A:H5'	2.15	0.46
29:B1:863:C:OP1	74:B1:3415:OHX:N2	2.49	0.46
29:B1:1042:U:C2'	29:B1:1043:C:O5'	2.64	0.46
29:B1:1051:U:O2	29:B1:1051:U:H2'	2.16	0.46
29:B1:1072:G:C4	29:B1:1073:U:C5	3.03	0.46
29:B1:1079:A:C5	29:B1:1080:A:C6	3.02	0.46
29:B1:1107:C:O2	29:B1:1108:U:C5	2.69	0.46
29:B1:1119:C:H2'	29:B1:1120:A:C8	2.51	0.46
29:B1:1133:A:H5'	29:B1:2866:U:OP1	2.15	0.46
29:B1:1194:G:C8	29:B1:1319:G:H5"	2.51	0.46
29:B1:1358:C:C3'	29:B1:1359:C:H6	2.28	0.46
29:B1:1372:C:C2'	29:B1:1373:A:H5'	2.45	0.46
29:B1:1505:C:H4'	29:B1:1505:C:OP1	2.15	0.46
29:B1:1565:G:N3	29:B1:1565:G:H2'	2.30	0.46
29:B1:1833:G:N3	29:B1:1834:U:O2	2.49	0.46
29:B1:1851:G:C5	29:B1:1852:G:C8	3.04	0.46
29:B1:1953:G:N1	29:B1:2092:A:OP2	2.48	0.46
29:B1:2157:G:N2	33:BB:125:ALA:HA	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2173:U:H2'	29:B1:2174:G:OP1	2.15	0.46
29:B1:2250:G:N3	29:B1:2250:G:H2'	2.31	0.46
29:B1:2288:G:C2	29:B1:2289:U:C5	3.03	0.46
29:B1:2294:U:C2	29:B1:2296:A:OP2	2.69	0.46
29:B1:2414:G:C2	29:B1:2415:C:C2	3.04	0.46
29:B1:2444:C:H3'	29:B1:2445:A:H5"	1.98	0.46
29:B1:2531:C:H42	29:B1:2548:C:N4	2.14	0.46
29:B1:2576:G:C4	29:B1:2577:C:C6	3.03	0.46
29:B1:2614:G:C4	29:B1:2797:C:H5	2.33	0.46
29:B1:2640:A:C2'	29:B1:2641:U:H6	2.26	0.46
29:B1:2984:C:C2	29:B1:2985:C:C5	3.04	0.46
29:B1:3002:C:C2	29:B1:3147:G:C2	3.04	0.46
29:B1:3113:A:N1	29:B1:3122:A:C8	2.83	0.46
29:B1:3161:C:C5	29:B1:3161:C:OP2	2.69	0.46
29:B1:3215:A:OP2	29:B1:3218:A:N9	2.48	0.46
29:B1:3330:A:H2'	29:B1:3331:U:O5'	2.15	0.46
29:B1:3377:G:H1'	29:B1:3378:C:P	2.55	0.46
29:B1:3388:C:H6	29:B1:3388:C:C5'	2.28	0.46
30:B2:44:C:C4	30:B2:45:A:C5	3.03	0.46
30:B2:75:G:P	74:B2:201:OHX:N5	2.89	0.46
30:B2:108:A:C6	30:B2:109:G:O6	2.68	0.46
31:B3:42:G:N2	31:B3:43:A:C4	2.84	0.46
31:B3:91:C:H2'	31:B3:92:A:O4'	2.15	0.46
31:B3:95:G:H4'	59:Bd:72:ARG:CA	2.42	0.46
34:BC:231:HIS:O	34:BC:232:ARG:C	2.58	0.46
37:BF:112:THR:O	37:BF:113:LYS:CB	2.63	0.46
43:BN:24:LYS:CB	43:BN:31:LYS:CA	2.94	0.46
45:BP:124:LEU:CB	45:BP:128:ARG:H	2.26	0.46
49:BT:103:GLN:O	49:BT:106:LEU:N	2.47	0.46
1:C1:32:U:H2'	1:C1:33:U:O5'	2.16	0.46
1:C1:85:A:O2'	1:C1:86:A:OP2	2.32	0.46
1:C1:90:C:N4	74:C1:1995:OHX:N6	2.63	0.46
1:C1:94:U:O4'	1:C1:94:U:O2	2.33	0.46
1:C1:168:A:H3'	1:C1:169:A:H8	1.78	0.46
1:C1:311:U:O2'	1:C1:312:A:O5'	2.34	0.46
1:C1:545:A:H61	1:C1:593:U:H2'	1.79	0.46
1:C1:796:A:C2'	1:C1:797:G:H5'	2.46	0.46
1:C1:823:G:H21	1:C1:824:G:H2'	1.79	0.46
1:C1:877:G:C2	1:C1:878:G:C8	3.03	0.46
1:C1:901:G:H3'	1:C1:902:G:N7	2.30	0.46
1:C1:939:A:C2	1:C1:940:A:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1025:A:N7	1:C1:1027:A:N9	2.64	0.46
1:C1:1170:G:C6	1:C1:1574:G:C5	3.04	0.46
1:C1:1186:U:H2'	1:C1:1187:U:C5'	2.46	0.46
1:C1:1186:U:C1'	1:C1:1208:A:C2	2.98	0.46
1:C1:1237:G:C5	1:C1:1238:A:N7	2.84	0.46
1:C1:1299:G:C6	1:C1:1300:A:N6	2.84	0.46
1:C1:1373:C:H2'	1:C1:1373:C:O2	2.13	0.46
1:C1:1483:A:C4	1:C1:1524:A:C6	3.04	0.46
1:C1:1536:G:C4	1:C1:1538:U:O2	2.69	0.46
1:C1:1587:A:C4	1:C1:1588:G:C8	3.04	0.46
1:C1:1608:U:H2'	1:C1:1609:U:H6	1.80	0.46
1:C1:1622:G:C5	1:C1:1623:C:C4	3.04	0.46
1:C1:1649:G:C6	1:C1:1650:U:O4	2.69	0.46
1:C1:1663:G:C6	1:C1:1664:C:C4	3.03	0.46
1:C1:1734:U:C4	1:C1:1735:U:C4	3.03	0.46
1:C1:1758:U:O2	1:C1:1758:U:H2'	2.16	0.46
2:CA:180:GLU:O	2:CA:184:LEU:CB	2.63	0.46
3:CB:122:ALA:O	3:CB:125:ILE:N	2.49	0.46
5:CD:218:GLU:C	5:CD:220:VAL:N	2.74	0.46
9:CH:57:PRO:O	9:CH:58:TYR:C	2.58	0.46
9:CH:77:THR:O	9:CH:110:LEU:HA	2.16	0.46
10:CI:66:ALA:O	10:CI:67:ALA:HB3	2.16	0.46
21:CT:21:THR:N	21:CT:37:SER:HA	2.26	0.46
24:Cc:68:UNK:O	24:Cc:69:UNK:CB	2.64	0.46
29:D1:10:C:C2'	29:D1:11:A:O5'	2.63	0.46
29:D1:22:G:O4'	31:D3:104:A:H1'	2.16	0.46
29:D1:58:G:O2'	29:D1:61:A:H5'	2.16	0.46
29:D1:79:U:H2'	29:D1:80:G:H8	1.81	0.46
29:D1:149:U:C4	44:DO:55:ALA:HA	2.50	0.46
29:D1:167:U:H2'	29:D1:168:U:H6	1.81	0.46
29:D1:252:U:C3'	29:D1:253:A:H5'	2.46	0.46
29:D1:363:G:C3'	29:D1:364:G:C5'	2.90	0.46
29:D1:370:U:H2'	29:D1:371:G:O4'	2.15	0.46
29:D1:392:G:N7	74:D1:3523:OHX:N4	2.64	0.46
29:D1:423:A:O5'	29:D1:423:A:C8	2.69	0.46
29:D1:428:A:H3'	29:D1:428:A:C8	2.51	0.46
29:D1:595:G:C2'	29:D1:596:C:O4'	2.59	0.46
29:D1:603:A:O5'	29:D1:603:A:H8	1.97	0.46
29:D1:665:A:N6	29:D1:666:A:C6	2.84	0.46
29:D1:715:A:O2'	29:D1:716:A:C5'	2.64	0.46
29:D1:1139:G:H2'	29:D1:1140:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1183:C:C3’	29:D1:1184:A:C5’	2.93	0.46
29:D1:1203:A:C2	29:D1:2855:U:O2	2.69	0.46
29:D1:1226:G:O4’	29:D1:3116:G:N7	2.49	0.46
29:D1:1284:C:O2	29:D1:1284:C:H2’	2.16	0.46
29:D1:1294:A:H5”	29:D1:1294:A:C8	2.33	0.46
29:D1:1438:U:H2’	29:D1:1439:U:C6	2.51	0.46
29:D1:1467:A:O2’	29:D1:1469:C:OP2	2.29	0.46
29:D1:1487:G:O6	74:D1:3588:OHX:N1	2.48	0.46
29:D1:1506:A:H3’	29:D1:1507:G:O4’	2.16	0.46
29:D1:1546:A:N6	29:D1:1547:G:C2	2.84	0.46
29:D1:1547:G:H2’	29:D1:1548:C:H6	1.76	0.46
29:D1:1675:G:C2	29:D1:1773:C:C4	3.04	0.46
29:D1:1771:C:H2’	29:D1:1772:U:O4’	2.16	0.46
29:D1:1797:A:C4	29:D1:1798:A:C8	3.04	0.46
29:D1:1838:G:H4’	29:D1:1839:A:C8	2.51	0.46
29:D1:1870:C:H2’	29:D1:1871:U:O4’	2.16	0.46
29:D1:2135:U:C2	29:D1:2136:C:C5	3.03	0.46
29:D1:2172:A:H1’	33:DB:10:LYS:C	2.40	0.46
29:D1:2233:A:OP2	74:D1:3473:OHX:N4	2.49	0.46
29:D1:2362:C:H2’	29:D1:2363:A:O4’	2.16	0.46
29:D1:2413:A:C2’	29:D1:2414:G:O5’	2.64	0.46
29:D1:2579:G:OP1	29:D1:2581:U:H5’	2.15	0.46
29:D1:2617:U:O2	29:D1:2617:U:O4’	2.34	0.46
29:D1:2646:C:C2’	29:D1:2647:A:H5’	2.46	0.46
29:D1:2778:G:O6	29:D1:2779:A:N6	2.49	0.46
29:D1:2815:G:H5”	29:D1:2816:G:OP1	2.15	0.46
29:D1:2868:U:C4	29:D1:2869:U:C5	3.04	0.46
29:D1:3000:A:C2’	29:D1:3001:C:C6	2.94	0.46
29:D1:3005:A:C2’	29:D1:3140:G:H22	2.28	0.46
29:D1:3047:U:O2	29:D1:3048:A:C2	2.63	0.46
29:D1:3221:C:N3	29:D1:3222:U:H5	2.08	0.46
29:D1:3278:C:H2’	29:D1:3279:A:N9	2.30	0.46
30:D2:22:A:C2’	30:D2:23:A:O5’	2.64	0.46
30:D2:69:C:H1’	30:D2:110:G:N2	2.27	0.46
30:D2:78:U:O2’	30:D2:79:A:O5’	2.34	0.46
30:D2:114:U:H3’	30:D2:115:G:H8	1.81	0.46
33:DB:231:SER:C	33:DB:233:GLN:N	2.70	0.46
34:DC:300:ARG:O	34:DC:301:THR:CB	2.64	0.46
35:DD:53:SER:O	35:DD:54:GLU:C	2.58	0.46
35:DD:84:ARG:C	35:DD:86:GLY:N	2.70	0.46
36:DE:42:ALA:O	36:DE:43:LYS:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DE:262:LYS:O	36:DE:265:TYR:CB	2.64	0.46
43:DN:10:SER:N	43:DN:11:ASN:HA	2.21	0.46
43:DN:62:GLN:O	43:DN:63:VAL:O	2.34	0.46
47:DR:102:ALA:O	47:DR:103:ALA:HB2	2.16	0.46
51:DV:24:GLY:O	51:DV:25:ASP:O	2.34	0.46
51:DV:40:PHE:O	51:DV:43:ARG:N	2.48	0.46
52:DW:133:LEU:HA	52:DW:136:ALA:HB3	1.97	0.46
58:Dc:65:ALA:C	58:Dc:67:ARG:N	2.73	0.46
62:Dg:81:SER:O	62:Dg:83:ILE:N	2.49	0.46
1:A1:12:U:H1'	1:A1:1300:A:C1'	2.40	0.46
1:A1:150:U:C4'	1:A1:151:G:OP2	2.64	0.46
1:A1:287:G:H2'	1:A1:288:A:C5'	2.45	0.46
1:A1:329:G:C4	1:A1:330:G:N7	2.84	0.46
1:A1:391:A:N1	1:A1:392:G:C5	2.84	0.46
1:A1:435:C:H2'	1:A1:436:A:O4'	2.15	0.46
1:A1:550:A:C4'	1:A1:556:A:C6	2.99	0.46
1:A1:567:A:N1	1:A1:583:C:H1'	2.31	0.46
1:A1:642:G:O6	1:A1:643:G:C6	2.68	0.46
1:A1:690:G:C6	1:A1:691:C:C4	3.03	0.46
1:A1:704:C:N4	1:A1:735:C:H5"	2.31	0.46
1:A1:726:C:H5'	1:A1:727:U:OP1	2.16	0.46
1:A1:895:G:C6	1:A1:896:U:N3	2.84	0.46
1:A1:977:A:N6	1:A1:1025:A:N9	2.63	0.46
1:A1:980:G:O6	74:A1:1923:OHX:N2	2.49	0.46
1:A1:1032:G:C4	1:A1:1033:C:C5	3.04	0.46
1:A1:1054:U:C2	1:A1:1055:U:C6	3.04	0.46
1:A1:1160:A:C2'	1:A1:1161:C:C6	2.87	0.46
1:A1:1176:G:C4	1:A1:1464:G:C2	3.03	0.46
1:A1:1227:A:C8	1:A1:1229:G:P	3.09	0.46
1:A1:1274:C:P	1:A1:1428:G:OP1	2.73	0.46
1:A1:1330:G:C2'	1:A1:1331:A:H5'	2.45	0.46
1:A1:1369:U:O4	74:A1:1959:OHX:N2	2.49	0.46
1:A1:1428:G:C2	1:A1:1429:G:N7	2.84	0.46
1:A1:1483:A:C4	1:A1:1524:A:C6	3.04	0.46
1:A1:1559:A:O2'	1:A1:1560:U:H6	1.98	0.46
1:A1:1645:G:N1	1:A1:1757:G:C5	2.84	0.46
1:A1:1675:C:C4	1:A1:1678:A:N6	2.84	0.46
1:A1:1685:G:C4	1:A1:1719:A:N1	2.84	0.46
1:A1:1713:G:N3	1:A1:1713:G:C2'	2.78	0.46
1:A1:1714:A:N1	1:A1:1715:G:C2	2.84	0.46
1:A1:1733:C:H2'	1:A1:1734:U:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1779:U:H4'	1:A1:1780:G:OP1	2.16	0.46
2:AA:79:ARG:O	2:AA:83:GLN:N	2.49	0.46
3:AB:83:ILE:O	3:AB:99:LYS:O	2.34	0.46
4:AC:140:GLY:HA3	4:AC:182:LEU:CA	2.40	0.46
6:AE:100:LYS:O	6:AE:101:VAL:C	2.58	0.46
8:AG:36:GLN:HA	8:AG:39:LYS:CB	2.45	0.46
12:AK:67:ARG:O	12:AK:68:GLY:C	2.58	0.46
14:AM:27:LYS:C	14:AM:29:GLU:N	2.74	0.46
15:AN:69:LYS:H	15:AN:79:TRP:H	1.62	0.46
17:AP:103:LEU:O	17:AP:104:LEU:O	2.33	0.46
21:AT:140:CYS:O	21:AT:141:LEU:C	2.59	0.46
21:AT:224:ASN:CB	21:AT:227:ALA:HB3	2.45	0.46
29:B1:44:U:C6	29:B1:45:A:C8	3.04	0.46
29:B1:88:A:C8	29:B1:88:A:C3'	2.98	0.46
29:B1:284:A:N3	29:B1:284:A:C2'	2.76	0.46
29:B1:361:A:O2'	29:B1:362:U:O5'	2.34	0.46
29:B1:379:C:O2'	29:B1:380:U:O5'	2.30	0.46
29:B1:382:U:H3'	29:B1:383:G:H4'	1.95	0.46
29:B1:536:U:O2'	29:B1:538:G:N7	2.43	0.46
29:B1:661:G:C8	29:B1:661:G:OP2	2.68	0.46
29:B1:705:A:H4'	29:B1:706:A:C5'	2.43	0.46
29:B1:729:C:C4	29:B1:730:C:C5	3.03	0.46
29:B1:935:U:H2'	29:B1:936:A:H8	1.78	0.46
29:B1:943:U:O2'	29:B1:944:C:C5'	2.64	0.46
29:B1:1020:G:C6	29:B1:1021:G:C5	3.04	0.46
29:B1:1120:A:H2'	29:B1:1120:A:N3	2.30	0.46
29:B1:1131:G:N3	29:B1:2373:A:C6	2.83	0.46
29:B1:1354:G:H2'	29:B1:1355:A:C4	2.51	0.46
29:B1:1549:U:H2'	29:B1:1550:C:H6	1.80	0.46
29:B1:1560:G:C6	29:B1:1561:G:C6	3.04	0.46
29:B1:1626:U:C4	29:B1:1627:U:C5	3.04	0.46
29:B1:1680:G:C4	29:B1:1681:U:H6	2.32	0.46
29:B1:1803:C:OP2	29:B1:1803:C:C6	2.69	0.46
29:B1:2112:U:C1'	29:B1:2113:A:P	3.04	0.46
29:B1:2150:G:OP2	29:B1:2150:G:H8	1.99	0.46
29:B1:2161:G:C5	29:B1:2162:U:C5	3.03	0.46
29:B1:2257:C:C2	29:B1:2258:U:C6	3.04	0.46
29:B1:2391:G:N2	29:B1:2989:U:C2	2.84	0.46
29:B1:2521:U:H2'	29:B1:2522:G:C4'	2.46	0.46
29:B1:2529:A:C6	29:B1:2530:G:C6	3.03	0.46
29:B1:2591:A:N1	29:B1:2592:G:H1'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2609:A:C4	29:B1:2610:G:C8	3.03	0.46
29:B1:2687:G:H5"	74:B1:3429:OHX:N1	2.30	0.46
29:B1:2725:U:OP2	29:B1:2726:C:P	2.73	0.46
29:B1:2929:C:H3'	29:B1:2929:C:H6	1.79	0.46
29:B1:3010:U:O2'	29:B1:3011:A:H5'	2.15	0.46
29:B1:3141:A:H2	29:B1:3144:G:P	2.38	0.46
29:B1:3274:A:C8	29:B1:3275:U:C2'	2.90	0.46
29:B1:3395:G:HO2'	29:B1:3396:U:P	2.32	0.46
30:B2:30:G:C5	30:B2:31:U:N3	2.83	0.46
30:B2:46:A:H2'	30:B2:47:C:C6	2.51	0.46
30:B2:63:A:C3'	30:B2:64:A:C5'	2.71	0.46
30:B2:81:U:O2	30:B2:81:U:H2'	2.15	0.46
34:BC:189:SER:C	34:BC:191:LYS:N	2.68	0.46
34:BC:220:VAL:O	34:BC:221:THR:CB	2.64	0.46
38:BG:25:GLN:HA	38:BG:28:ALA:HB2	1.96	0.46
38:BG:201:PHE:O	38:BG:202:LEU:CB	2.64	0.46
41:BJ:215:GLU:C	41:BJ:217:PHE:N	2.72	0.46
42:BK:87:LYS:O	42:BK:88:GLU:C	2.59	0.46
43:BN:24:LYS:O	43:BN:25:LYS:O	2.33	0.46
43:BN:111:ALA:O	43:BN:113:THR:N	2.48	0.46
45:BP:58:LEU:O	45:BP:59:ARG:CB	2.64	0.46
49:BT:58:GLN:C	49:BT:60:LYS:H	2.24	0.46
55:BZ:82:GLY:O	55:BZ:83:LYS:C	2.58	0.46
1:C1:16:G:C4	1:C1:17:C:C5	3.04	0.46
1:C1:276:C:O2	1:C1:277:U:H3'	2.16	0.46
1:C1:542:A:C2	1:C1:544:A:H3'	2.51	0.46
1:C1:611:U:O4	1:C1:612:U:C4	2.68	0.46
1:C1:758:U:C3'	1:C1:759:U:H6	2.28	0.46
1:C1:952:A:C2	1:C1:953:G:C8	3.04	0.46
1:C1:1036:A:H3'	1:C1:1037:C:H6	1.81	0.46
1:C1:1096:C:O2	1:C1:1098:U:OP2	2.34	0.46
1:C1:1124:A:C6	1:C1:1125:A:C2	3.04	0.46
1:C1:1211:A:C5	1:C1:1212:G:N7	2.84	0.46
1:C1:1250:U:C2	1:C1:1251:U:C4	3.04	0.46
1:C1:1269:U:H1'	1:C1:1270:G:OP2	2.16	0.46
1:C1:1302:U:OP2	1:C1:1302:U:H6	1.99	0.46
1:C1:1348:A:H5"	15:CN:11:GLU:C	2.34	0.46
1:C1:1499:G:C6	1:C1:1508:U:O2	2.60	0.46
1:C1:1761:U:C1'	1:C1:1762:A:OP2	2.64	0.46
1:C1:1764:C:H5'	1:C1:1767:G:C8	2.51	0.46
2:CA:14:ALA:HA	2:CA:15:GLN:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:65:ALA:C	2:CA:67:ILE:H	2.23	0.46
2:CA:175:TYR:O	2:CA:177:LEU:N	2.49	0.46
3:CB:106:ASP:C	3:CB:108:ASN:N	2.74	0.46
3:CB:153:SER:O	3:CB:154:LEU:CB	2.64	0.46
8:CG:70:LYS:O	8:CG:71:ILE:C	2.58	0.46
10:CI:45:PHE:CB	10:CI:46:ALA:CA	2.92	0.46
11:CJ:90:VAL:HA	11:CJ:97:VAL:HA	1.98	0.46
21:CT:288:HIS:O	21:CT:289:ALA:C	2.58	0.46
25:Cd:106:UNK:O	25:Cd:107:UNK:C	2.62	0.46
29:D1:3:U:O2'	29:D1:4:U:H5'	2.16	0.46
29:D1:10:C:O2	29:D1:10:C:C2'	2.52	0.46
29:D1:134:U:C4	58:Dc:67:ARG:HA	2.51	0.46
29:D1:176:G:N3	29:D1:177:U:C6	2.84	0.46
29:D1:393:U:O2	29:D1:394:G:O4'	2.33	0.46
29:D1:439:C:O2	29:D1:439:C:C2'	2.64	0.46
29:D1:594:U:N3	29:D1:595:G:C2	2.58	0.46
29:D1:707:U:OP1	29:D1:782:U:O2'	2.25	0.46
29:D1:759:U:O4	29:D1:773:G:N7	2.49	0.46
29:D1:790:U:C2'	29:D1:791:A:O5'	2.64	0.46
29:D1:847:A:C2'	29:D1:848:A:C8	2.91	0.46
29:D1:963:G:H8	29:D1:963:G:C4'	2.25	0.46
29:D1:1125:U:C4	29:D1:1134:G:C6	3.04	0.46
29:D1:1199:C:N4	74:D1:3574:OHX:N6	2.61	0.46
29:D1:1447:G:C8	29:D1:2355:G:O6	2.69	0.46
29:D1:1454:A:O5'	29:D1:1878:G:N1	2.43	0.46
29:D1:1471:U:C2	29:D1:1472:U:C6	3.04	0.46
29:D1:1571:A:H2'	29:D1:1571:A:N3	2.31	0.46
29:D1:1658:G:N1	29:D1:1796:G:O6	2.49	0.46
29:D1:1700:G:C5	29:D1:1701:C:C5	3.03	0.46
29:D1:1731:A:H2'	29:D1:1732:U:O4'	2.16	0.46
29:D1:2107:A:O2'	29:D1:2108:C:H5'	2.16	0.46
29:D1:2232:A:C8	29:D1:2232:A:H3'	2.50	0.46
29:D1:2289:U:H2'	29:D1:2289:U:O2	2.14	0.46
29:D1:2307:G:C6	29:D1:2310:U:C4	3.03	0.46
29:D1:2346:C:C2'	29:D1:2347:U:H5'	2.46	0.46
29:D1:2390:A:C4	29:D1:2990:G:N2	2.84	0.46
29:D1:2426:U:H2'	29:D1:2427:U:C6	2.51	0.46
29:D1:2675:C:H5	29:D1:2676:A:N6	2.14	0.46
29:D1:2948:C:O2'	29:D1:2949:U:C5'	2.59	0.46
29:D1:3050:U:C6	29:D1:3051:U:C5	3.04	0.46
29:D1:3208:G:N3	29:D1:3208:G:C2'	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3279:A:H2'	29:D1:3280:U:C6	2.50	0.46
30:D2:1:G:N2	30:D2:2:G:C4	2.84	0.46
31:D3:16:G:N1	74:D3:212:OHX:N6	2.64	0.46
34:DC:295:ALA:O	34:DC:296:THR:CB	2.64	0.46
34:DC:301:THR:HA	34:DC:302:LYS:HA	1.69	0.46
35:DD:144:LYS:O	35:DD:145:ILE:CB	2.64	0.46
35:DD:238:LEU:O	35:DD:239:ALA:HB2	2.15	0.46
37:DF:5:LYS:O	37:DF:6:ALA:HB2	2.15	0.46
38:DG:144:ILE:O	38:DG:148:VAL:N	2.40	0.46
39:DH:219:ASP:O	39:DH:223:ALA:CB	2.62	0.46
40:DI:117:PHE:C	40:DI:119:GLY:N	2.73	0.46
43:DN:10:SER:CB	43:DN:65:LEU:CB	2.94	0.46
44:DO:78:GLY:N	44:DO:79:ALA:CB	2.78	0.46
47:DR:51:ALA:C	47:DR:53:PHE:N	2.71	0.46
52:DW:74:LYS:O	52:DW:77:GLU:N	2.42	0.46
53:DX:39:LEU:C	53:DX:41:ALA:H	2.23	0.46
53:DX:64:LYS:C	53:DX:66:GLN:N	2.72	0.46
53:DX:70:ILE:HA	53:DX:82:VAL:HA	1.97	0.46
54:DY:131:SER:CB	54:DY:134:ALA:CB	2.92	0.46
56:Da:9:THR:CA	56:Da:76:SER:HA	2.29	0.46
58:Dc:50:SER:O	58:Dc:51:ILE:C	2.59	0.46
59:Dd:60:GLY:C	59:Dd:62:GLY:H	2.22	0.46
61:Df:40:LYS:O	61:Df:42:ARG:N	2.49	0.46
62:Dg:64:VAL:C	62:Dg:66:GLY:H	2.23	0.46
1:A1:8:U:H3	1:A1:1139:A:H62	1.64	0.46
1:A1:13:C:H5"	3:AB:162:CYS:HA	1.97	0.46
1:A1:26:A:H8	1:A1:26:A:P	2.38	0.46
1:A1:80:A:H5'	1:A1:81:G:OP2	2.16	0.46
1:A1:192:U:C2	1:A1:192:U:OP1	2.69	0.46
1:A1:328:A:C6	1:A1:341:A:N6	2.84	0.46
1:A1:329:G:C4	1:A1:330:G:C8	3.03	0.46
1:A1:379:U:C2	1:A1:380:U:C5	3.01	0.46
1:A1:406:U:OP2	1:A1:406:U:H3'	2.16	0.46
1:A1:406:U:O2'	1:A1:407:A:H5'	2.16	0.46
1:A1:483:A:C8	1:A1:483:A:OP2	2.69	0.46
1:A1:487:G:N3	1:A1:488:G:N7	2.63	0.46
1:A1:718:U:C5	1:A1:722:G:C5	3.00	0.46
1:A1:758:U:H3'	1:A1:759:U:C6	2.50	0.46
1:A1:772:G:H8	1:A1:772:G:O5'	1.99	0.46
1:A1:883:C:H5"	1:A1:884:A:OP2	2.15	0.46
1:A1:925:G:C2	1:A1:988:A:H1'	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:975:C:C4	1:A1:976:G:N7	2.84	0.46
1:A1:1001:A:H8	1:A1:1001:A:OP1	1.99	0.46
1:A1:1065:A:H4'	24:Ac:38:UNK:O	2.16	0.46
1:A1:1066:C:H2'	1:A1:1066:C:O2	2.16	0.46
1:A1:1094:G:O2'	1:A1:1095:U:C6	2.63	0.46
1:A1:1237:G:C4	1:A1:1238:A:N7	2.84	0.46
1:A1:1269:U:H4'	1:A1:1270:G:C5'	2.45	0.46
1:A1:1351:G:C6	1:A1:1352:G:N7	2.84	0.46
1:A1:1364:G:C5	1:A1:1365:C:C6	3.03	0.46
1:A1:1437:U:O2'	1:A1:1438:G:H5"	2.15	0.46
1:A1:1504:G:C6	1:A1:1505:A:C6	3.04	0.46
1:A1:1565:C:H2'	1:A1:1565:C:O2	2.14	0.46
1:A1:1595:U:C6	1:A1:1596:C:C2	3.03	0.46
1:A1:1758:U:C4	1:A1:1759:C:N4	2.84	0.46
1:A1:1786:G:C5	1:A1:1787:C:N4	2.84	0.46
2:AA:54:TRP:O	2:AA:56:LYS:N	2.49	0.46
3:AB:101:VAL:HA	3:AB:114:GLY:O	2.15	0.46
4:AC:104:SER:O	4:AC:105:MET:C	2.58	0.46
5:AD:61:TYR:HA	5:AD:64:VAL:CB	2.46	0.46
5:AD:122:ASN:O	5:AD:123:VAL:C	2.59	0.46
9:AH:27:PHE:HA	9:AH:43:THR:CB	2.46	0.46
11:AJ:62:ASN:O	11:AJ:63:ILE:CB	2.64	0.46
15:AN:119:ALA:HB1	15:AN:120:SER:CA	2.45	0.46
21:AT:135:THR:O	21:AT:137:LYS:N	2.48	0.46
21:AT:296:ALA:C	21:AT:298:GLY:H	2.24	0.46
23:Ab:84:UNK:H	23:Ab:86:UNK:H	1.64	0.46
29:B1:72:C:C4	29:B1:73:C:C1'	2.98	0.46
29:B1:92:G:O6	29:B1:94:G:N2	2.49	0.46
29:B1:280:U:C2	29:B1:282:G:O2'	2.53	0.46
29:B1:382:U:C6	29:B1:383:G:O4'	2.68	0.46
29:B1:499:G:C2'	29:B1:500:C:O5'	2.62	0.46
29:B1:520:U:H1'	29:B1:521:A:OP2	2.16	0.46
29:B1:545:U:H2'	29:B1:546:C:C4	2.51	0.46
29:B1:562:C:C2'	29:B1:563:U:H6	2.13	0.46
29:B1:591:G:N1	29:B1:592:A:C5	2.84	0.46
29:B1:614:C:O2'	29:B1:615:U:H5'	2.16	0.46
29:B1:636:C:N3	29:B1:646:A:C8	2.84	0.46
29:B1:695:C:O2	29:B1:695:C:H2'	2.16	0.46
29:B1:828:A:H2'	29:B1:828:A:N3	2.29	0.46
29:B1:958:C:P	29:B1:2799:A:H2'	2.55	0.46
29:B1:974:G:C6	29:B1:975:C:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1056:U:O5'	29:B1:1056:U:C6	2.67	0.46
29:B1:1076:C:H3'	29:B1:1077:U:C6	2.51	0.46
29:B1:1105:A:N6	29:B1:1106:G:O6	2.49	0.46
29:B1:1386:A:O2'	29:B1:1387:G:P	2.74	0.46
29:B1:1449:A:C8	29:B1:1450:G:C4	3.04	0.46
29:B1:1532:C:H2'	29:B1:1533:U:N1	2.31	0.46
29:B1:1556:C:O2	29:B1:1556:C:C2'	2.63	0.46
29:B1:1628:C:O3'	29:B1:1630:U:H6	1.99	0.46
29:B1:1684:U:C6	29:B1:1684:U:C3'	2.98	0.46
29:B1:1793:C:OP1	29:B1:1793:C:H2'	2.16	0.46
29:B1:2157:G:O6	29:B1:2178:A:H2'	2.16	0.46
29:B1:2232:A:C8	29:B1:2232:A:H3'	2.51	0.46
29:B1:2252:A:C4	29:B1:2253:G:N7	2.83	0.46
29:B1:2315:G:N3	29:B1:2316:G:C8	2.84	0.46
29:B1:2390:A:C5'	29:B1:3307:A:H2	2.29	0.46
29:B1:2414:G:H2'	29:B1:2415:C:H6	1.79	0.46
29:B1:2710:C:C6	29:B1:2710:C:C3'	2.99	0.46
29:B1:2896:A:O2'	29:B1:2897:A:C5'	2.64	0.46
29:B1:3096:C:N3	29:B1:3097:C:C4	2.84	0.46
29:B1:3108:G:C2	29:B1:3109:G:C8	3.04	0.46
29:B1:3224:G:C6	29:B1:3225:C:C5	3.04	0.46
29:B1:3260:G:C6	29:B1:3261:C:O4'	2.68	0.46
29:B1:3294:A:C6	29:B1:3295:A:C8	3.04	0.46
31:B3:35:C:H2'	31:B3:36:G:C8	2.51	0.46
31:B3:55:U:C2	31:B3:62:C:H5	2.33	0.46
31:B3:145:U:C4	31:B3:146:U:C4	3.04	0.46
34:BC:236:LYS:O	34:BC:237:LYS:C	2.59	0.46
36:BE:163:LEU:O	36:BE:166:ALA:N	2.49	0.46
37:BF:166:LYS:O	37:BF:167:ASN:O	2.33	0.46
41:BJ:147:VAL:O	41:BJ:148:VAL:C	2.58	0.46
42:BK:114:ILE:O	42:BK:115:LYS:O	2.34	0.46
47:BR:126:GLN:C	47:BR:128:ALA:H	2.17	0.46
48:BS:35:ALA:HB1	48:BS:40:ALA:HB1	1.98	0.46
62:Bg:14:TYR:O	62:Bg:15:GLY:O	2.33	0.46
1:C1:38:C:C2'	1:C1:39:A:H5"	2.45	0.46
1:C1:75:U:O2'	1:C1:76:A:H4'	2.15	0.46
1:C1:284:G:OP1	1:C1:285:G:OP2	2.33	0.46
1:C1:328:A:N1	1:C1:341:A:C6	2.84	0.46
1:C1:340:U:C2	1:C1:341:A:N7	2.84	0.46
1:C1:492:A:C2	1:C1:494:U:H5"	2.51	0.46
1:C1:743:U:C2	1:C1:809:A:C2	2.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:756:A:N6	1:C1:757:A:C6	2.83	0.46
1:C1:795:U:O2	1:C1:795:U:O4'	2.33	0.46
1:C1:838:G:O6	74:C1:1928:OHX:N1	2.48	0.46
1:C1:921:U:C2'	1:C1:922:G:H5'	2.43	0.46
1:C1:1044:U:O2	1:C1:1045:C:H5	1.99	0.46
1:C1:1054:U:C2	1:C1:1055:U:C6	3.04	0.46
1:C1:1305:U:H3'	1:C1:1306:C:N3	2.30	0.46
1:C1:1318:G:N2	1:C1:1319:A:N3	2.63	0.46
1:C1:1345:A:H2'	1:C1:1346:A:C4	2.47	0.46
1:C1:1377:U:C2	1:C1:1378:U:H4'	2.51	0.46
1:C1:1584:G:N3	1:C1:1584:G:H3'	2.30	0.46
1:C1:1788:G:OP2	1:C1:1788:G:C8	2.69	0.46
1:C1:1798:U:O2	1:C1:1798:U:O4'	2.33	0.46
2:CA:86:VAL:O	2:CA:87:LEU:C	2.59	0.46
3:CB:68:ILE:O	3:CB:69:ILE:C	2.59	0.46
4:CC:14:ASP:C	4:CC:16:VAL:H	2.22	0.46
11:CJ:102:LYS:C	11:CJ:104:GLU:N	2.71	0.46
21:CT:218:GLY:C	21:CT:236:ALA:HB3	2.41	0.46
25:Cd:85:UNK:O	25:Cd:89:UNK:N	2.46	0.46
29:D1:230:U:H2'	29:D1:231:G:C1'	2.46	0.46
29:D1:247:C:C3'	29:D1:248:U:H4'	2.46	0.46
29:D1:281:G:C4	29:D1:282:G:N7	2.84	0.46
29:D1:306:A:OP2	29:D1:306:A:O4'	2.32	0.46
29:D1:531:G:C2	29:D1:560:G:N2	2.81	0.46
29:D1:548:G:C8	29:D1:548:G:OP2	2.69	0.46
29:D1:726:G:N2	29:D1:744:A:N7	2.64	0.46
29:D1:731:U:OP1	47:DR:135:GLN:HA	2.16	0.46
29:D1:1107:C:O2	29:D1:1108:U:C6	2.69	0.46
29:D1:1184:A:H5'	29:D1:1184:A:C8	2.46	0.46
29:D1:1201:C:H2'	29:D1:1201:C:O2	2.16	0.46
29:D1:1287:A:C6	29:D1:1288:U:C4	3.04	0.46
29:D1:1317:A:C4	29:D1:1319:G:N7	2.84	0.46
29:D1:1522:U:C6	29:D1:1835:A:O4'	2.68	0.46
29:D1:1536:G:C6	29:D1:1586:G:C2	3.04	0.46
29:D1:1549:U:H2'	29:D1:1550:C:C6	2.50	0.46
29:D1:1557:A:C2'	29:D1:1558:A:O5'	2.63	0.46
29:D1:1678:G:C4'	29:D1:1756:C:H4'	2.45	0.46
29:D1:1795:U:C5	62:Dg:51:ALA:HB2	2.50	0.46
29:D1:1852:G:H5"	29:D1:1853:U:OP2	2.16	0.46
29:D1:2154:U:H4'	33:DB:239:ALA:CB	2.46	0.46
29:D1:2185:G:H5"	29:D1:2186:U:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2240:G:H2'	29:D1:2241:U:C5'	2.45	0.46
29:D1:2294:U:N1	29:D1:2297:U:H5	2.13	0.46
29:D1:2831:G:C6	29:D1:2832:C:C4	3.04	0.46
29:D1:2860:U:O2	29:D1:2860:U:H2'	2.16	0.46
29:D1:2961:G:H5"	29:D1:2962:U:OP2	2.16	0.46
29:D1:3165:A:C2	29:D1:3286:G:C5	3.04	0.46
29:D1:3302:U:H6	29:D1:3302:U:O5'	1.99	0.46
29:D1:3359:A:N3	29:D1:3360:C:H1'	2.31	0.46
29:D1:3365:U:C2	29:D1:3366:G:C8	3.04	0.46
29:D1:3371:G:O6	29:D1:3372:A:C6	2.69	0.46
30:D2:41:G:N1	30:D2:43:U:C6	2.84	0.46
30:D2:108:A:C6	30:D2:109:G:O6	2.69	0.46
31:D3:9:A:H5'	31:D3:10:A:OP2	2.16	0.46
31:D3:79:A:H3'	31:D3:80:A:C8	2.50	0.46
34:DC:149:ALA:O	34:DC:150:ARG:C	2.55	0.46
35:DD:118:LYS:O	35:DD:121:ALA:HB3	2.16	0.46
36:DE:111:GLN:H	36:DE:114:GLY:CA	2.29	0.46
38:DG:69:ALA:O	38:DG:71:ALA:N	2.48	0.46
44:DO:143:ARG:CA	44:DO:146:ALA:HB2	2.46	0.46
45:DP:192:LYS:C	45:DP:194:LEU:N	2.66	0.46
48:DS:144:GLN:O	48:DS:145:ALA:C	2.58	0.46
50:DU:24:ASN:O	50:DU:99:ALA:HA	2.15	0.46
52:DW:87:SER:O	52:DW:88:MET:C	2.58	0.46
53:DX:23:PRO:O	53:DX:24:SER:C	2.57	0.46
58:Dc:10:ARG:HA	58:Dc:11:THR:CB	2.46	0.46
1:A1:96:G:H5'	1:A1:460:A:O3'	2.16	0.46
1:A1:196:G:C6	1:A1:197:A:C2	3.04	0.46
1:A1:321:C:H2'	1:A1:322:G:H8	1.81	0.46
1:A1:556:A:O2'	1:A1:590:C:O4'	2.20	0.46
1:A1:575:C:C5	1:A1:576:G:N7	2.84	0.46
1:A1:625:C:H2'	1:A1:626:U:C6	2.51	0.46
1:A1:738:G:H2'	1:A1:739:G:N7	2.31	0.46
1:A1:824:G:H5"	1:A1:825:U:OP1	2.16	0.46
1:A1:824:G:O6	1:A1:850:A:N3	2.49	0.46
1:A1:837:G:O2'	1:A1:838:G:H5'	2.15	0.46
1:A1:966:A:C2'	1:A1:967:A:O5'	2.64	0.46
1:A1:1039:A:O2'	1:A1:1040:G:O5'	2.32	0.46
1:A1:1308:G:C5	1:A1:1309:C:C5	3.04	0.46
1:A1:1311:U:H2'	1:A1:1313:A:OP2	2.16	0.46
1:A1:1341:A:N3	1:A1:1341:A:C2'	2.78	0.46
1:A1:1407:U:C6	1:A1:1408:G:C8	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1411:A:H5'	1:A1:1412:G:OP2	2.16	0.46
1:A1:1536:G:C5	1:A1:1538:U:O2	2.68	0.46
1:A1:1543:A:N6	1:A1:1568:C:H1'	2.31	0.46
1:A1:1683:C:OP2	1:A1:1684:U:OP2	2.34	0.46
3:AB:97:ARG:O	3:AB:98:PHE:CB	2.63	0.46
5:AD:183:ALA:O	5:AD:184:PHE:CB	2.64	0.46
8:AG:42:ARG:O	8:AG:43:LYS:C	2.59	0.46
10:AI:69:GLU:C	10:AI:71:GLU:H	2.23	0.46
20:AS:38:ILE:O	20:AS:39:CYS:C	2.58	0.46
21:AT:6:VAL:O	21:AT:7:LEU:C	2.59	0.46
29:B1:9:U:O2	29:B1:9:U:C2'	2.64	0.46
29:B1:36:C:H2'	29:B1:37:U:H5'	1.97	0.46
29:B1:222:A:N3	29:B1:222:A:H2'	2.31	0.46
29:B1:342:A:C4	29:B1:349:A:N7	2.84	0.46
29:B1:508:U:O2	29:B1:508:U:C2'	2.64	0.46
29:B1:533:A:O2'	29:B1:534:U:N1	2.48	0.46
29:B1:554:A:H2'	29:B1:555:U:H5"	1.96	0.46
29:B1:606:C:C4'	29:B1:606:C:C6	2.98	0.46
29:B1:745:C:H42	29:B1:746:A:H61	1.60	0.46
29:B1:797:U:H2'	29:B1:798:G:C8	2.51	0.46
29:B1:910:G:C6	29:B1:911:C:C4	3.04	0.46
29:B1:945:C:H2'	29:B1:945:C:O2	2.15	0.46
29:B1:1234:G:N7	29:B1:1235:U:H2'	2.30	0.46
29:B1:1278:A:N7	29:B1:1279:C:C4	2.83	0.46
29:B1:1293:U:C2'	29:B1:1294:A:O5'	2.63	0.46
29:B1:1384:U:H6	29:B1:1384:U:OP2	1.99	0.46
29:B1:1453:A:N3	29:B1:1878:G:C2	2.84	0.46
29:B1:1503:A:H2'	29:B1:1504:A:O4'	2.16	0.46
29:B1:1517:G:C2	29:B1:1518:U:C4	3.04	0.46
29:B1:1559:A:C2'	29:B1:1560:G:H5'	2.46	0.46
29:B1:1641:U:O2'	29:B1:1643:A:OP1	2.28	0.46
29:B1:1675:G:C2	29:B1:1773:C:N3	2.84	0.46
29:B1:1713:G:C6	29:B1:1730:G:N3	2.84	0.46
29:B1:1787:A:C6	29:B1:1788:C:C4	3.03	0.46
29:B1:1901:A:H5"	29:B1:2919:A:P	2.54	0.46
29:B1:2279:A:C3'	29:B1:2280:A:C5'	2.95	0.46
29:B1:2313:A:C1'	29:B1:2315:G:C8	2.99	0.46
29:B1:2394:G:H2'	29:B1:2395:G:O4'	2.16	0.46
29:B1:2409:G:C2	29:B1:2411:U:C6	3.04	0.46
29:B1:2454:G:N1	29:B1:2484:A:C5	2.83	0.46
29:B1:2513:U:H5	29:B1:2591:A:H61	1.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2730:G:C6	29:B1:2731:U:C5	3.03	0.46
29:B1:2910:A:C2'	29:B1:2911:A:OP2	2.64	0.46
29:B1:2931:C:C2	29:B1:2935:U:C5	3.04	0.46
29:B1:2959:C:H5'	29:B1:2960:C:OP2	2.16	0.46
29:B1:2985:C:C2	29:B1:2986:U:C5	3.04	0.46
29:B1:3106:A:H2'	29:B1:3107:U:O5'	2.16	0.46
29:B1:3125:U:H2'	29:B1:3126:C:H5'	1.96	0.46
29:B1:3175:U:O2	29:B1:3175:U:O5'	2.34	0.46
29:B1:3245:A:O2'	29:B1:3246:G:O5'	2.34	0.46
29:B1:3311:C:C4	29:B1:3312:U:C4	3.04	0.46
29:B1:3315:G:P	29:B1:3316:A:OP1	2.73	0.46
30:B2:69:C:H1'	30:B2:110:G:N2	2.31	0.46
30:B2:104:A:C5	30:B2:105:C:C6	3.03	0.46
31:B3:74:U:OP1	31:B3:76:C:C5	2.68	0.46
31:B3:95:G:OP1	31:B3:96:A:OP2	2.34	0.46
31:B3:124:G:OP1	31:B3:124:G:C4'	2.64	0.46
37:BF:41:ILE:H	37:BF:85:ILE:C	2.19	0.46
37:BF:100:LYS:C	37:BF:102:ASN:H	2.23	0.46
38:BG:60:ARG:O	38:BG:61:ASN:C	2.59	0.46
42:BK:85:LYS:O	42:BK:87:LYS:N	2.49	0.46
46:BQ:25:SER:CB	46:BQ:29:THR:H	2.29	0.46
48:BS:62:ARG:O	48:BS:65:ALA:CB	2.59	0.46
48:BS:66:HIS:O	48:BS:67:ALA:C	2.58	0.46
48:BS:129:GLY:O	48:BS:130:ASN:CB	2.63	0.46
59:Bd:67:LEU:HA	59:Bd:70:VAL:C	2.40	0.46
1:C1:339:C:C2	1:C1:340:U:C5	3.04	0.46
1:C1:388:G:H2'	1:C1:389:G:H8	1.81	0.46
1:C1:701:U:C2	1:C1:702:G:C8	3.03	0.46
1:C1:954:G:N7	1:C1:955:A:N7	2.63	0.46
1:C1:1026:A:C2	1:C1:1792:G:N3	2.84	0.46
1:C1:1474:G:N3	1:C1:1475:A:C8	2.83	0.46
1:C1:1478:G:C4	1:C1:1479:A:C8	3.04	0.46
1:C1:1489:U:H6	1:C1:1494:C:N3	2.14	0.46
1:C1:1622:G:N3	1:C1:1622:G:H2'	2.31	0.46
1:C1:1682:U:OP2	1:C1:1682:U:C6	2.69	0.46
2:CA:51:GLY:O	2:CA:54:TRP:N	2.42	0.46
2:CA:82:GLY:O	2:CA:85:ALA:HB3	2.16	0.46
3:CB:243:TYR:O	3:CB:244:SER:C	2.58	0.46
4:CC:39:VAL:HA	4:CC:47:GLU:O	2.16	0.46
9:CH:21:ALA:HB2	9:CH:26:THR:HA	1.98	0.46
16:CO:57:ARG:C	16:CO:59:GLY:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CS:26:SER:C	20:CS:28:THR:H	2.23	0.46
24:Cc:19:UNK:C	24:Cc:21:UNK:N	2.79	0.46
29:D1:60:A:C8	29:D1:327:A:C2	3.04	0.46
29:D1:192:C:N3	29:D1:204:A:C2	2.84	0.46
29:D1:198:A:H2	29:D1:219:A:C8	2.34	0.46
29:D1:294:U:C2'	29:D1:295:A:H5"	2.45	0.46
29:D1:383:G:N2	29:D1:387:A:C5	2.84	0.46
29:D1:413:U:O5'	29:D1:413:U:C6	2.67	0.46
29:D1:695:C:O2	29:D1:695:C:C2'	2.63	0.46
29:D1:705:A:H2	29:D1:714:G:N3	2.13	0.46
29:D1:808:A:N6	29:D1:934:G:C5	2.84	0.46
29:D1:810:A:C2	29:D1:811:U:C4	3.04	0.46
29:D1:991:G:H2'	29:D1:992:A:O4'	2.16	0.46
29:D1:1062:A:O5'	29:D1:1063:G:O6	2.34	0.46
29:D1:1130:A:C8	29:D1:1132:C:C6	3.04	0.46
29:D1:1178:G:OP2	29:D1:1179:A:OP2	2.34	0.46
29:D1:1194:G:H8	29:D1:1319:G:H5"	1.79	0.46
29:D1:1220:U:C5	29:D1:1286:A:N6	2.84	0.46
29:D1:1262:G:O6	29:D1:1264:G:C2	2.69	0.46
29:D1:1347:U:H3'	29:D1:1348:U:C6	2.51	0.46
29:D1:1461:A:C5	29:D1:1462:A:C5	3.04	0.46
29:D1:1535:A:H3'	29:D1:1536:G:O4'	2.16	0.46
29:D1:1617:G:H2'	29:D1:1618:G:H5'	1.98	0.46
29:D1:1671:C:C4	29:D1:1672:U:C5	3.04	0.46
29:D1:1686:U:C4'	29:D1:1687:U:OP2	2.58	0.46
29:D1:1736:G:C5	29:D1:1737:U:C5	3.04	0.46
29:D1:1778:G:O3'	29:D1:1779:C:O2	2.34	0.46
29:D1:1779:C:OP1	29:D1:1780:G:H5"	2.16	0.46
29:D1:1953:G:N1	29:D1:2092:A:OP2	2.49	0.46
29:D1:2105:G:O2'	29:D1:2106:A:O4'	2.34	0.46
29:D1:2270:A:C8	29:D1:2270:A:C5'	2.81	0.46
29:D1:2370:G:H8	29:D1:2370:G:O5'	1.99	0.46
29:D1:2632:G:C6	29:D1:2633:U:C4	3.04	0.46
29:D1:2675:C:C5	29:D1:2676:A:N6	2.84	0.46
29:D1:2680:A:H61	42:DK:56:THR:CB	2.29	0.46
29:D1:2702:A:N7	29:D1:2704:A:N6	2.64	0.46
29:D1:2802:A:N7	61:Df:54:THR:O	2.49	0.46
29:D1:2843:U:H3'	29:D1:2843:U:OP2	2.16	0.46
29:D1:2847:A:C8	29:D1:2898:G:C5	3.04	0.46
29:D1:2914:G:C4	29:D1:2915:U:C5	3.04	0.46
29:D1:2987:A:C2'	29:D1:2988:C:H6	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3026:G:C8	29:D1:3026:G:H3'	2.51	0.46
29:D1:3113:A:H2'	29:D1:3114:A:H5'	1.97	0.46
29:D1:3189:G:C4	29:D1:3190:C:C5	3.03	0.46
29:D1:3189:G:N2	29:D1:3190:C:C2	2.84	0.46
29:D1:3262:U:OP2	29:D1:3262:U:C3'	2.58	0.46
29:D1:3340:G:H2'	29:D1:3341:U:O5'	2.16	0.46
29:D1:3341:U:H3'	29:D1:3343:G:H1	1.79	0.46
30:D2:11:A:O2'	30:D2:68:C:H5'	2.15	0.46
30:D2:47:C:O2	30:D2:48:U:N3	2.49	0.46
31:D3:74:U:P	31:D3:76:C:C4	3.09	0.46
31:D3:88:A:C8	31:D3:89:A:C6	3.04	0.46
33:DB:4:VAL:O	33:DB:5:ILE:O	2.33	0.46
34:DC:91:GLY:HA2	34:DC:159:ARG:H	1.80	0.46
35:DD:32:PRO:O	35:DD:33:ASP:C	2.59	0.46
36:DE:31:TYR:O	36:DE:35:ARG:CB	2.64	0.46
38:DG:165:ASP:C	38:DG:167:ALA:H	2.24	0.46
44:DO:143:ARG:O	44:DO:146:ALA:HB2	2.16	0.46
48:DS:66:HIS:C	48:DS:68:GLN:N	2.73	0.46
52:DW:74:LYS:O	52:DW:75:LYS:C	2.57	0.46
54:DY:15:VAL:C	54:DY:17:ALA:HA	2.41	0.46
56:Da:32:ALA:HA	56:Da:35:GLU:CB	2.46	0.46
60:De:30:ARG:O	60:De:32:ASN:N	2.48	0.46
1:A1:96:G:C6	1:A1:97:C:N4	2.84	0.45
1:A1:153:G:C2	1:A1:162:A:C5	3.03	0.45
1:A1:210:A:N6	1:A1:256:A:N6	2.64	0.45
1:A1:328:A:N1	1:A1:341:A:C6	2.84	0.45
1:A1:353:A:N6	1:A1:354:C:C2	2.84	0.45
1:A1:445:A:C2	1:A1:446:A:C8	3.04	0.45
1:A1:529:A:O2'	1:A1:530:C:P	2.74	0.45
1:A1:551:G:C4	1:A1:552:G:N7	2.84	0.45
1:A1:571:G:H2'	1:A1:572:C:C6	2.51	0.45
1:A1:604:A:C6	1:A1:605:A:N1	2.84	0.45
1:A1:621:A:H5"	1:A1:622:A:OP2	2.16	0.45
1:A1:685:A:O2'	1:A1:686:C:O5'	2.33	0.45
1:A1:761:G:O5'	1:A1:761:G:H8	1.99	0.45
1:A1:800:U:C2	1:A1:801:G:N7	2.85	0.45
1:A1:839:U:C4	1:A1:840:U:O4	2.69	0.45
1:A1:898:A:C2	1:A1:915:A:N6	2.84	0.45
1:A1:1039:A:O4'	1:A1:1081:A:N6	2.48	0.45
1:A1:1117:U:O2'	1:A1:1118:G:H5'	2.15	0.45
1:A1:1155:G:C2	1:A1:1156:C:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1186:U:C1'	1:A1:1208:A:C2	2.99	0.45
1:A1:1207:C:C4	1:A1:1208:A:N6	2.84	0.45
1:A1:1379:C:H3'	1:A1:1380:U:H5'	1.98	0.45
1:A1:1389:C:C4	1:A1:1391:A:O4'	2.69	0.45
1:A1:1478:G:C2	1:A1:1479:A:C4	3.04	0.45
1:A1:1649:G:N7	74:A1:1969:OHX:N1	2.64	0.45
2:AA:72:ASP:HA	2:AA:95:ALA:HA	1.98	0.45
2:AA:103:THR:O	2:AA:104:PRO:C	2.59	0.45
3:AB:72:LEU:O	3:AB:74:PRO:N	2.50	0.45
26:Ae:14:UNK:O	26:Ae:17:UNK:N	2.49	0.45
29:B1:70:A:C2'	29:B1:71:A:H5'	2.45	0.45
29:B1:206:G:N1	29:B1:207:U:C2	2.84	0.45
29:B1:208:C:C2	29:B1:209:A:C8	3.04	0.45
29:B1:382:U:H3'	29:B1:383:G:C4'	2.46	0.45
29:B1:382:U:C4	29:B1:383:G:C8	3.04	0.45
29:B1:502:U:C2'	29:B1:503:C:H5'	2.47	0.45
29:B1:565:U:H2'	29:B1:566:G:H5'	1.95	0.45
29:B1:643:U:H2'	29:B1:1153:A:N1	2.31	0.45
29:B1:709:A:OP1	29:B1:709:A:C8	2.53	0.45
29:B1:721:G:H2'	29:B1:722:G:OP2	2.16	0.45
29:B1:747:A:C8	29:B1:747:A:O5'	2.69	0.45
29:B1:773:G:H21	29:B1:774:G:C1'	2.29	0.45
29:B1:915:A:C2	29:B1:917:A:H1'	2.52	0.45
29:B1:917:A:H2'	29:B1:917:A:N3	2.31	0.45
29:B1:963:G:C6	29:B1:964:G:C5	3.04	0.45
29:B1:975:C:C6	29:B1:975:C:H5"	2.50	0.45
29:B1:993:G:C4	29:B1:2637:A:N3	2.84	0.45
29:B1:1119:C:H1'	29:B1:1154:A:C4	2.51	0.45
29:B1:1148:G:O2'	29:B1:1171:G:O4'	2.33	0.45
29:B1:1260:A:H2'	29:B1:1261:G:O5'	2.16	0.45
29:B1:1556:C:N4	29:B1:2169:G:N7	2.62	0.45
29:B1:1678:G:H5"	29:B1:1756:C:O3'	2.16	0.45
29:B1:1704:A:H2'	29:B1:1705:U:O5'	2.16	0.45
29:B1:1847:A:C2	29:B1:1849:C:N1	2.84	0.45
29:B1:2092:A:OP2	29:B1:2093:A:C8	2.68	0.45
29:B1:2112:U:C4'	29:B1:2113:A:OP2	2.65	0.45
29:B1:2180:G:C6	29:B1:2181:C:N4	2.84	0.45
29:B1:2184:U:H2'	29:B1:2185:G:O4'	2.16	0.45
29:B1:2301:U:O2'	29:B1:2302:G:H5'	2.16	0.45
29:B1:2365:C:OP1	29:B1:2365:C:C6	2.66	0.45
29:B1:2443:A:C6	29:B1:2444:C:N4	2.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2573:G:C5	29:B1:2574:G:C8	3.03	0.45
29:B1:2591:A:N3	29:B1:2592:G:O4'	2.48	0.45
29:B1:2610:G:H2'	29:B1:2610:G:N3	2.31	0.45
29:B1:2630:C:C2'	29:B1:2631:U:O5'	2.63	0.45
29:B1:2719:U:C4	29:B1:2720:G:C4	3.04	0.45
29:B1:2743:A:C8	29:B1:2744:U:C5	3.05	0.45
29:B1:2852:C:N4	29:B1:2853:A:N3	2.64	0.45
29:B1:2925:C:C6	29:B1:2926:A:C8	3.04	0.45
29:B1:3023:U:H4'	29:B1:3024:A:OP2	2.14	0.45
29:B1:3048:A:N3	29:B1:3048:A:O4'	2.48	0.45
29:B1:3090:U:C6	29:B1:3090:U:C4'	2.94	0.45
29:B1:3309:G:C5	29:B1:3310:A:H1'	2.50	0.45
29:B1:3316:A:H62	29:B1:3320:A:N6	2.12	0.45
29:B1:3381:U:C2	29:B1:3383:G:C6	3.04	0.45
31:B3:30:C:O2'	31:B3:31:G:O5'	2.34	0.45
31:B3:116:G:H2'	31:B3:117:C:O5'	2.16	0.45
34:BC:295:ALA:O	34:BC:296:THR:CB	2.63	0.45
35:BD:84:ARG:C	35:BD:86:GLY:N	2.74	0.45
35:BD:99:MET:C	35:BD:100:PHE:O	2.59	0.45
36:BE:98:ALA:HB1	36:BE:162:ALA:N	2.31	0.45
38:BG:73:GLY:CA	38:BG:74:SER:C	2.86	0.45
38:BG:219:LYS:O	38:BG:221:LYS:N	2.49	0.45
42:BK:61:ARG:O	42:BK:63:GLU:N	2.49	0.45
42:BK:118:PRO:CA	42:BK:119:SER:CB	2.92	0.45
45:BP:142:SER:O	45:BP:143:THR:C	2.60	0.45
45:BP:165:ALA:O	45:BP:166:GLU:C	2.57	0.45
46:BQ:141:SER:O	46:BQ:143:PRO:N	2.49	0.45
48:BS:11:ALA:O	48:BS:14:VAL:N	2.49	0.45
53:BX:101:PRO:C	53:BX:103:LYS:H	2.24	0.45
54:BY:135:GLU:O	54:BY:137:LYS:N	2.49	0.45
1:C1:17:C:N3	1:C1:18:C:C5	2.84	0.45
1:C1:45:U:C2	1:C1:436:A:N6	2.84	0.45
1:C1:63:G:C8	1:C1:63:G:OP1	2.69	0.45
1:C1:114:C:H42	1:C1:250:C:C4'	2.28	0.45
1:C1:119:A:O4'	1:C1:397:A:C1'	2.63	0.45
1:C1:129:U:H5	1:C1:264:G:N7	2.14	0.45
1:C1:173:A:N1	1:C1:174:U:C1'	2.72	0.45
1:C1:186:C:N4	1:C1:187:G:C4	2.85	0.45
1:C1:199:G:C5	1:C1:200:A:N7	2.84	0.45
1:C1:333:A:N1	1:C1:334:G:N1	2.64	0.45
1:C1:358:U:O2	1:C1:360:A:C8	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:366:A:C2	1:C1:376:C:C2	3.04	0.45
1:C1:426:G:H21	1:C1:459:G:C2'	2.29	0.45
1:C1:436:A:H5"	1:C1:437:A:P	2.57	0.45
1:C1:529:A:O2'	1:C1:530:C:P	2.74	0.45
1:C1:575:C:N4	1:C1:576:G:C6	2.84	0.45
1:C1:588:U:N3	1:C1:589:C:C5	2.83	0.45
1:C1:632:U:C2'	1:C1:633:U:O5'	2.64	0.45
1:C1:728:U:O2	1:C1:728:U:C2'	2.64	0.45
1:C1:756:A:C5	1:C1:757:A:C5	3.04	0.45
1:C1:814:A:H2'	1:C1:816:G:H21	1.81	0.45
1:C1:824:G:C5'	1:C1:825:U:OP1	2.64	0.45
1:C1:877:G:O2'	1:C1:878:G:H5'	2.15	0.45
1:C1:925:G:C2	1:C1:988:A:H1'	2.51	0.45
1:C1:968:U:H5"	1:C1:1033:C:O2'	2.15	0.45
1:C1:1113:A:N3	1:C1:1115:U:C5	2.84	0.45
1:C1:1150:G:C2'	1:C1:1151:A:O5'	2.64	0.45
1:C1:1330:G:H2'	1:C1:1331:A:O4'	2.16	0.45
1:C1:1449:U:H2'	1:C1:1450:U:C6	2.49	0.45
1:C1:1480:G:N2	1:C1:1528:U:C2	2.84	0.45
1:C1:1533:C:H4'	1:C1:1539:G:C6	2.51	0.45
1:C1:1557:U:O2	1:C1:1557:U:C3'	2.64	0.45
1:C1:1619:C:H2'	1:C1:1620:C:C6	2.52	0.45
1:C1:1644:C:H2'	1:C1:1645:G:O5'	2.15	0.45
1:C1:1651:A:N1	1:C1:1652:C:C4	2.84	0.45
1:C1:1705:C:N4	1:C1:1706:C:C4	2.84	0.45
1:C1:1760:G:C2	1:C1:1761:U:C6	3.04	0.45
2:CA:19:ALA:O	2:CA:20:ALA:C	2.60	0.45
6:CE:59:LEU:C	6:CE:61:THR:N	2.74	0.45
8:CG:97:SER:C	8:CG:99:ARG:H	2.23	0.45
13:CL:27:LYS:HA	13:CL:57:ARG:CA	2.46	0.45
15:CN:52:LYS:C	15:CN:54:GLY:H	2.23	0.45
21:CT:175:ASP:O	21:CT:176:LYS:CB	2.64	0.45
21:CT:243:LEU:HA	21:CT:254:ALA:HB2	1.98	0.45
21:CT:243:LEU:O	21:CT:244:ALA:HB2	2.15	0.45
25:Cd:108:UNK:HA	25:Cd:112:UNK:N	2.31	0.45
29:D1:23:A:H5"	29:D1:24:G:OP2	2.16	0.45
29:D1:34:A:C6	29:D1:35:A:C6	3.04	0.45
29:D1:190:U:N1	29:D1:224:C:O4'	2.49	0.45
29:D1:212:G:C5	29:D1:222:A:N7	2.85	0.45
29:D1:504:A:C2'	29:D1:505:G:C5'	2.93	0.45
29:D1:558:U:O2'	29:D1:558:U:O2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:559:A:C2'	29:D1:560:G:C8	2.96	0.45
29:D1:584:G:C2	29:D1:585:A:C4	3.03	0.45
29:D1:624:G:N3	29:D1:625:G:C8	2.84	0.45
29:D1:693:A:C5	29:D1:694:C:C5	3.04	0.45
29:D1:752:C:O2'	29:D1:753:C:H6	1.99	0.45
29:D1:795:G:H4'	29:D1:1111:U:O3'	2.16	0.45
29:D1:918:C:H2'	29:D1:919:U:O4'	2.16	0.45
29:D1:941:G:H8	29:D1:941:G:O5'	2.00	0.45
29:D1:993:G:C4	29:D1:2637:A:N3	2.84	0.45
29:D1:1065:A:O2'	29:D1:1093:A:N1	2.49	0.45
29:D1:1084:A:H3'	29:D1:1085:A:C8	2.51	0.45
29:D1:1192:C:O3'	29:D1:1193:A:C4'	2.64	0.45
29:D1:1212:A:C5	29:D1:1294:A:C2	3.04	0.45
29:D1:1302:A:O2'	29:D1:2887:A:H2	1.97	0.45
29:D1:1338:C:O2	29:D1:1338:C:C2'	2.63	0.45
29:D1:1358:C:C3'	29:D1:1359:C:H6	2.29	0.45
29:D1:1757:A:O2'	29:D1:1758:G:H5'	2.16	0.45
29:D1:1794:G:O3'	29:D1:1796:G:N2	2.43	0.45
29:D1:1814:A:H2'	29:D1:1814:A:N3	2.31	0.45
29:D1:1952:G:C6	29:D1:2093:A:N6	2.84	0.45
29:D1:2104:A:H2'	29:D1:2105:G:H5"	1.98	0.45
29:D1:2107:A:C4	29:D1:2108:C:C6	3.04	0.45
29:D1:2133:U:H2'	29:D1:2134:G:H5'	1.97	0.45
29:D1:2150:G:C3'	29:D1:2151:C:H5"	2.46	0.45
29:D1:2207:A:H8	29:D1:2237:C:C2	2.35	0.45
29:D1:2214:A:H2'	29:D1:2215:A:H8	1.81	0.45
29:D1:2403:G:H4'	29:D1:2404:A:OP1	2.15	0.45
29:D1:2502:A:O2'	29:D1:2503:G:P	2.74	0.45
29:D1:2590:A:C5	29:D1:2591:A:C8	3.04	0.45
29:D1:2754:G:H5'	29:D1:2755:C:H5'	1.98	0.45
29:D1:2853:A:C6	29:D1:2854:U:C2	3.04	0.45
29:D1:2880:U:H2'	29:D1:2881:C:C5'	2.45	0.45
29:D1:2983:C:O2	29:D1:2983:C:O4'	2.30	0.45
29:D1:3060:C:H2'	29:D1:3061:G:C8	2.51	0.45
29:D1:3072:C:O2'	29:D1:3073:A:H5'	2.16	0.45
29:D1:3079:U:H3'	29:D1:3080:G:C5'	2.46	0.45
29:D1:3090:U:C6	29:D1:3090:U:C4'	2.99	0.45
29:D1:3092:C:C5'	29:D1:3093:C:OP2	2.63	0.45
29:D1:3153:U:H1'	29:D1:3395:G:H21	1.80	0.45
29:D1:3228:C:H3'	29:D1:3229:G:N7	2.30	0.45
29:D1:3289:G:N7	74:D1:3524:OHX:N2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:26:C:C4'	30:D2:27:A:OP1	2.59	0.45
31:D3:50:C:HO2'	31:D3:51:G:P	2.38	0.45
31:D3:103:G:C5	31:D3:105:A:C6	3.04	0.45
31:D3:118:C:H2'	31:D3:118:C:O2	2.15	0.45
33:DB:78:ALA:HA	33:DB:168:VAL:HA	1.98	0.45
34:DC:109:HIS:O	34:DC:110:LEU:CB	2.64	0.45
34:DC:197:GLU:O	34:DC:199:PHE:N	2.49	0.45
35:DD:115:HIS:O	35:DD:116:ASN:C	2.59	0.45
37:DF:67:GLY:O	37:DF:68:PRO:CB	2.65	0.45
40:DI:174:LYS:O	40:DI:176:LEU:N	2.49	0.45
42:DK:19:LEU:O	42:DK:68:HIS:O	2.34	0.45
50:DU:133:SER:C	50:DU:135:VAL:N	2.72	0.45
1:A1:87:C:O2	1:A1:87:C:C2'	2.56	0.45
1:A1:112:A:C6	1:A1:303:U:O2	2.70	0.45
1:A1:150:U:C5'	1:A1:151:G:OP2	2.64	0.45
1:A1:168:A:N6	1:A1:169:A:N6	2.65	0.45
1:A1:274:G:C4	1:A1:275:C:C5	3.04	0.45
1:A1:289:U:C2	1:A1:290:G:C8	3.04	0.45
1:A1:469:C:C2	1:A1:469:C:P	3.09	0.45
1:A1:708:C:C4	1:A1:731:C:C5	3.04	0.45
1:A1:809:A:N1	1:A1:810:G:C6	2.85	0.45
1:A1:837:G:C4	1:A1:838:G:C8	3.04	0.45
1:A1:956:C:H5"	1:A1:1073:G:O2'	2.16	0.45
1:A1:978:A:N6	1:A1:1024:U:C4	2.83	0.45
1:A1:993:A:C6	1:A1:1012:U:C2	3.04	0.45
1:A1:1065:A:C5	1:A1:1066:C:C5	3.03	0.45
1:A1:1075:C:N3	1:A1:1076:A:C2	2.84	0.45
1:A1:1110:G:H2'	1:A1:1111:G:H8	1.81	0.45
1:A1:1133:A:N3	1:A1:1133:A:H2'	2.31	0.45
1:A1:1151:A:C6	1:A1:1152:A:N7	2.84	0.45
1:A1:1199:G:C6	1:A1:1200:G:C1'	2.96	0.45
1:A1:1281:G:C6	1:A1:1282:U:C4	3.03	0.45
1:A1:1344:A:H1'	1:A1:1345:A:O5'	2.16	0.45
1:A1:1477:G:H2'	1:A1:1478:G:C5'	2.46	0.45
1:A1:1489:U:H6	1:A1:1494:C:N3	2.14	0.45
1:A1:1530:C:H2'	1:A1:1531:G:H8	1.81	0.45
1:A1:1538:U:C5	1:A1:1540:G:C8	3.03	0.45
1:A1:1557:U:O2	1:A1:1558:U:C6	2.69	0.45
1:A1:1591:C:C6	1:A1:1591:C:O5'	2.69	0.45
1:A1:1705:C:N4	1:A1:1706:C:C4	2.85	0.45
2:AA:178:ALA:HA	2:AA:181:VAL:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:93:LEU:O	5:AD:96:SER:N	2.32	0.45
5:AD:164:PRO:O	5:AD:166:ARG:N	2.49	0.45
10:AI:67:ALA:CA	10:AI:68:PRO:C	2.89	0.45
13:AL:108:LYS:O	13:AL:109:LEU:C	2.59	0.45
29:B1:73:C:P	29:B1:74:G:O5'	2.74	0.45
29:B1:374:A:C2	29:B1:375:A:C6	3.04	0.45
29:B1:697:A:C8	29:B1:698:U:H3'	2.50	0.45
29:B1:759:U:H2'	29:B1:760:G:C5'	2.46	0.45
29:B1:774:G:C4	29:B1:775:A:C8	3.04	0.45
29:B1:885:U:N3	29:B1:886:C:C5	2.84	0.45
29:B1:975:C:C2	29:B1:976:U:C5	3.03	0.45
29:B1:1029:G:H2'	29:B1:1030:A:H5"	1.98	0.45
29:B1:1075:A:C2	69:Bp:246:UNK:N	2.84	0.45
29:B1:1129:A:C5	29:B1:1130:A:N6	2.84	0.45
29:B1:1178:G:C8	29:B1:1179:A:C5	3.04	0.45
29:B1:1192:C:O2	29:B1:1193:A:C2	2.69	0.45
29:B1:1268:G:H2'	29:B1:1269:U:C4'	2.46	0.45
29:B1:1302:A:N7	29:B1:2857:C:O2'	2.49	0.45
29:B1:1330:A:C8	29:B1:1330:A:H3'	2.50	0.45
29:B1:1347:U:H3'	29:B1:1348:U:C6	2.52	0.45
29:B1:1497:C:O2'	29:B1:1498:A:H5'	2.16	0.45
29:B1:1562:C:H2'	29:B1:1563:C:C6	2.51	0.45
29:B1:1685:C:C2'	29:B1:1687:U:OP2	2.63	0.45
29:B1:1907:C:C2'	29:B1:1908:A:H5'	2.46	0.45
29:B1:1915:A:H5"	48:BS:84:THR:N	2.32	0.45
29:B1:2180:G:H2'	29:B1:2181:C:C6	2.51	0.45
29:B1:2302:G:H2'	29:B1:2303:A:O4'	2.16	0.45
29:B1:2469:G:N2	29:B1:2488:A:C2	2.84	0.45
29:B1:2639:G:H21	29:B1:2640:A:H1'	1.82	0.45
29:B1:2666:C:C6	29:B1:2666:C:O5'	2.69	0.45
29:B1:2681:U:H6	29:B1:2681:U:H2'	1.09	0.45
29:B1:2773:C:N3	29:B1:2774:C:C5	2.84	0.45
29:B1:2839:G:C6	29:B1:2850:G:C2	3.04	0.45
29:B1:2965:U:H2'	29:B1:2966:G:H5'	1.99	0.45
29:B1:3060:C:H2'	29:B1:3061:G:C8	2.51	0.45
29:B1:3093:C:O2'	29:B1:3094:A:O5'	2.34	0.45
29:B1:3110:C:N3	29:B1:3111:U:C5	2.84	0.45
29:B1:3140:G:C8	29:B1:3140:G:C5'	2.92	0.45
29:B1:3229:G:H4'	29:B1:3230:G:OP1	2.16	0.45
29:B1:3369:G:O2'	29:B1:3370:A:P	2.74	0.45
29:B1:3392:U:C4	29:B1:3393:U:C4	2.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:14:U:P	30:B2:14:U:O4'	2.74	0.45
30:B2:43:U:H2'	30:B2:44:C:C5'	2.46	0.45
30:B2:66:A:C6	30:B2:67:G:C8	3.05	0.45
31:B3:116:G:N3	31:B3:117:C:C6	2.84	0.45
33:BB:223:SER:O	33:BB:236:GLY:O	2.33	0.45
35:BD:21:PRO:O	35:BD:22:LEU:CB	2.65	0.45
39:BH:111:LYS:HA	39:BH:112:GLU:HA	1.47	0.45
40:BI:140:VAL:O	40:BI:141:LYS:CB	2.63	0.45
42:BK:29:ARG:C	42:BK:31:THR:N	2.72	0.45
43:BN:59:ASN:O	43:BN:60:LEU:CB	2.64	0.45
45:BP:59:ARG:N	45:BP:61:ALA:H	2.14	0.45
46:BQ:85:ALA:O	46:BQ:87:SER:N	2.49	0.45
48:BS:11:ALA:O	48:BS:12:ALA:C	2.57	0.45
51:BV:39:LEU:O	51:BV:42:GLN:N	2.49	0.45
54:BY:47:LYS:CB	54:BY:53:PHE:CB	2.94	0.45
56:Ba:56:ASN:C	56:Ba:58:ALA:N	2.74	0.45
63:Bh:37:UNK:O	63:Bh:39:UNK:N	2.50	0.45
66:Bl:4:UNK:C	66:Bl:6:UNK:N	2.68	0.45
1:C1:104:A:C2	1:C1:106:U:H1'	2.52	0.45
1:C1:106:U:H3'	1:C1:107:C:H6	1.81	0.45
1:C1:139:C:H4'	1:C1:140:A:O5'	2.17	0.45
1:C1:252:U:HO2'	1:C1:253:A:C5'	2.29	0.45
1:C1:356:G:C6	1:C1:357:G:C8	3.04	0.45
1:C1:359:A:N3	1:C1:359:A:C2'	2.80	0.45
1:C1:381:C:N3	1:C1:382:C:C5	2.84	0.45
1:C1:509:G:C2'	1:C1:510:G:C8	2.81	0.45
1:C1:568:G:C6	1:C1:569:C:C5	3.04	0.45
1:C1:590:C:C2	1:C1:591:A:N7	2.84	0.45
1:C1:646:C:H2'	1:C1:647:G:C4'	2.46	0.45
1:C1:747:C:C2	1:C1:748:U:C5	3.04	0.45
1:C1:787:G:H3'	1:C1:788:A:C8	2.52	0.45
1:C1:817:A:C2	1:C1:855:A:C2	3.01	0.45
1:C1:831:U:H5'	1:C1:832:U:P	2.57	0.45
1:C1:1167:G:N3	1:C1:1167:G:C2'	2.79	0.45
1:C1:1174:C:H4'	1:C1:1601:G:C5	2.50	0.45
1:C1:1239:U:H2'	1:C1:1240:U:OP2	2.17	0.45
1:C1:1241:G:C2	1:C1:1243:G:H8	2.34	0.45
1:C1:1471:A:C8	1:C1:1540:G:H1'	2.51	0.45
1:C1:1607:G:C2	1:C1:1608:U:C6	3.04	0.45
1:C1:1738:U:H2'	1:C1:1739:C:C6	2.52	0.45
4:CC:98:ALA:C	4:CC:100:ALA:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CG:134:VAL:O	8:CG:135:LEU:C	2.59	0.45
21:CT:128:ASP:O	21:CT:129:LYS:CB	2.64	0.45
23:Cb:60:UNK:O	23:Cb:62:UNK:N	2.49	0.45
29:D1:187:A:C8	29:D1:211:A:N1	2.85	0.45
29:D1:278:U:N3	29:D1:279:U:C5	2.85	0.45
29:D1:329:U:O2	29:D1:329:U:O4'	2.30	0.45
29:D1:417:A:O2'	29:D1:418:A:H5'	2.17	0.45
29:D1:517:G:C2'	29:D1:518:G:O4'	2.64	0.45
29:D1:524:U:C2	29:D1:525:C:C6	3.03	0.45
29:D1:529:A:H2'	29:D1:530:G:C8	2.51	0.45
29:D1:574:U:C6	29:D1:574:U:C5'	2.94	0.45
29:D1:586:C:H5"	29:D1:587:U:OP2	2.16	0.45
29:D1:692:A:C2	29:D1:693:A:N9	2.84	0.45
29:D1:809:G:H2'	29:D1:810:A:C8	2.51	0.45
29:D1:993:G:N7	29:D1:2637:A:C2	2.84	0.45
29:D1:1357:G:C5	29:D1:1358:C:C5	3.04	0.45
29:D1:1378:U:O2	29:D1:1378:U:C2'	2.63	0.45
29:D1:1379:G:C4	29:D1:1380:G:C8	3.04	0.45
29:D1:1483:G:C8	29:D1:1485:G:C5	3.04	0.45
29:D1:1489:A:H5"	29:D1:1490:A:OP2	2.16	0.45
29:D1:1489:A:C2	29:D1:1854:C:C2	3.04	0.45
29:D1:1498:A:C2'	29:D1:1499:C:H5'	2.45	0.45
29:D1:1528:G:N1	29:D1:1833:G:C6	2.84	0.45
29:D1:1562:C:H2'	29:D1:1563:C:C6	2.51	0.45
29:D1:1566:A:H2'	29:D1:1567:U:C5	2.51	0.45
29:D1:1617:G:C2'	29:D1:1618:G:H5'	2.46	0.45
29:D1:1634:G:N1	29:D1:1640:G:O6	2.49	0.45
29:D1:1679:A:C2	29:D1:1680:G:C5	3.04	0.45
29:D1:1741:A:H2'	29:D1:1742:U:O4'	2.17	0.45
29:D1:2117:A:N3	29:D1:2117:A:C2'	2.79	0.45
29:D1:2255:A:C4	74:D1:3415:OHX:N4	2.84	0.45
29:D1:2298:U:C3'	29:D1:2299:A:H5"	2.46	0.45
29:D1:2459:A:N6	29:D1:2486:A:H2	2.15	0.45
29:D1:2468:A:H5"	32:DA:31:THR:CB	2.46	0.45
29:D1:2648:G:C6	29:D1:2649:A:C5	3.04	0.45
29:D1:2716:U:N3	29:D1:2717:U:C5	2.85	0.45
29:D1:2738:A:H2'	29:D1:2738:A:N3	2.31	0.45
29:D1:2942:C:C6	29:D1:2942:C:O5'	2.70	0.45
29:D1:2945:G:H8	29:D1:2979:U:O2	1.94	0.45
29:D1:3027:A:C8	29:D1:3028:G:N7	2.84	0.45
29:D1:3028:G:N1	29:D1:3029:A:C2	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3135:U:H3'	29:D1:3136:G:C8	2.50	0.45
29:D1:3253:G:C5	29:D1:3254:G:C8	3.04	0.45
29:D1:3273:A:O4'	29:D1:3273:A:P	2.73	0.45
29:D1:3298:C:N3	29:D1:3391:A:C2	2.84	0.45
29:D1:3325:G:C2'	29:D1:3326:G:O4'	2.64	0.45
29:D1:3337:G:H2'	29:D1:3338:C:O4'	2.16	0.45
29:D1:3390:G:C5	29:D1:3391:A:C5	3.04	0.45
30:D2:11:A:O5'	30:D2:13:A:C5	2.68	0.45
30:D2:66:A:C6	30:D2:67:G:C8	3.04	0.45
30:D2:69:C:N3	30:D2:70:U:C4	2.85	0.45
30:D2:102:A:C2'	30:D2:103:A:O5'	2.64	0.45
31:D3:1:A:N1	31:D3:2:A:C4	2.84	0.45
31:D3:53:A:H2'	31:D3:54:A:C8	2.51	0.45
31:D3:70:G:H3'	31:D3:71:A:O4'	2.17	0.45
31:D3:140:G:C2	31:D3:141:C:C2	3.04	0.45
31:D3:142:C:N3	31:D3:143:U:C4	2.83	0.45
34:DC:251:CYS:O	34:DC:252:ILE:CB	2.64	0.45
36:DE:71:GLY:O	36:DE:72:ASP:C	2.59	0.45
38:DG:167:ALA:HB3	38:DG:176:TYR:CB	2.46	0.45
40:DI:129:ARG:O	40:DI:131:GLY:N	2.47	0.45
44:DO:163:GLY:O	44:DO:165:THR:N	2.49	0.45
47:DR:36:LEU:C	47:DR:37:ALA:O	2.59	0.45
57:Db:40:SER:C	57:Db:42:VAL:N	2.73	0.45
26:Dj:19:UNK:O	26:Dj:20:UNK:C	2.64	0.45
1:A1:119:A:OP2	1:A1:120:U:C5	2.69	0.45
1:A1:312:A:C2	1:A1:314:C:C2	3.04	0.45
1:A1:333:A:H2'	1:A1:334:G:C8	2.51	0.45
1:A1:353:A:C8	1:A1:354:C:C5	3.04	0.45
1:A1:413:U:O2'	1:A1:414:C:H5'	2.17	0.45
1:A1:648:G:C6	1:A1:649:U:C5	3.04	0.45
1:A1:852:C:C4	1:A1:853:G:C2	3.04	0.45
1:A1:879:G:C6	1:A1:880:C:C4	3.04	0.45
1:A1:1065:A:C8	1:A1:1066:C:C5	3.04	0.45
1:A1:1116:A:C5	1:A1:1117:U:C5	3.04	0.45
1:A1:1138:A:N1	1:A1:1139:A:C5	2.83	0.45
1:A1:1198:G:OP2	1:A1:1199:G:N7	2.50	0.45
1:A1:1232:U:O2	1:A1:1232:U:C3'	2.64	0.45
1:A1:1246:C:C6	1:A1:1247:U:C5	3.03	0.45
1:A1:1272:U:O4	1:A1:1431:C:C2	2.69	0.45
1:A1:1276:U:O2'	1:A1:1277:G:H5'	2.16	0.45
1:A1:1277:G:C6	1:A1:1278:G:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1472:C:H5'	1:A1:1474:G:C1'	2.46	0.45
1:A1:1528:U:O5'	1:A1:1528:U:H6	1.99	0.45
1:A1:1657:U:N3	74:A1:1949:OHX:N5	2.65	0.45
1:A1:1722:A:H8	1:A1:1723:U:H6	1.54	0.45
9:AH:98:GLY:O	9:AH:101:ALA:HB3	2.16	0.45
11:AJ:10:PHE:N	11:AJ:19:VAL:HA	2.32	0.45
16:AO:30:SER:O	16:AO:34:ILE:CB	2.64	0.45
21:AT:3:SER:O	21:AT:4:ASN:C	2.60	0.45
28:Ah:2:UNK:O	28:Ah:5:UNK:N	2.49	0.45
29:B1:96:G:H8	29:B1:96:G:C5'	2.28	0.45
29:B1:296:A:N6	29:B1:297:G:H1	2.14	0.45
29:B1:541:U:H2'	29:B1:542:G:C8	2.51	0.45
29:B1:549:U:O2'	29:B1:550:A:O5'	2.23	0.45
29:B1:556:U:C2	29:B1:557:A:H1'	2.51	0.45
29:B1:559:A:C4	29:B1:560:G:C8	3.03	0.45
29:B1:564:G:OP1	29:B1:564:G:H4'	2.16	0.45
29:B1:584:G:C2	29:B1:585:A:C8	3.04	0.45
29:B1:706:A:C6	29:B1:714:G:N2	2.83	0.45
29:B1:771:A:N1	29:B1:772:U:C4	2.85	0.45
29:B1:871:U:C4	29:B1:872:U:C4	3.04	0.45
29:B1:883:A:C6	29:B1:921:A:N6	2.85	0.45
29:B1:1003:A:C6	29:B1:1004:U:C2	3.04	0.45
29:B1:1020:G:C6	29:B1:1021:G:N7	2.84	0.45
29:B1:1063:G:OP1	29:B1:1063:G:C4	2.70	0.45
29:B1:1142:G:H3'	29:B1:1143:A:C5'	2.46	0.45
29:B1:1272:C:C2'	29:B1:1273:A:O5'	2.64	0.45
29:B1:1342:C:H2'	29:B1:1342:C:O2	2.15	0.45
29:B1:1540:U:C2'	29:B1:1541:G:C5'	2.95	0.45
29:B1:1604:G:N1	29:B1:1605:A:C6	2.84	0.45
29:B1:1655:G:H5'	29:B1:1656:A:O5'	2.17	0.45
29:B1:1715:A:N7	29:B1:1716:U:O4'	2.49	0.45
29:B1:1753:G:N1	29:B1:1754:G:C5	2.85	0.45
29:B1:1780:G:O2'	29:B1:1781:C:H6	1.97	0.45
29:B1:1784:G:C6	29:B1:1785:U:C4	3.04	0.45
29:B1:1912:U:O2'	29:B1:1913:A:O4'	2.33	0.45
29:B1:2215:A:C2	29:B1:2216:G:N9	2.83	0.45
29:B1:2356:A:C2	29:B1:2357:A:N9	2.83	0.45
29:B1:2383:C:H2'	29:B1:2384:A:C8	2.49	0.45
29:B1:2390:A:O4'	29:B1:3307:A:N1	2.49	0.45
29:B1:2399:A:N1	29:B1:2981:U:C5	2.84	0.45
29:B1:2662:G:N3	29:B1:2662:G:H2'	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2676:A:C2'	29:B1:2677:G:OP1	2.64	0.45
29:B1:2824:G:N7	74:B1:3478:OHX:N4	2.65	0.45
29:B1:3030:G:O2'	29:B1:3031:G:O5'	2.34	0.45
29:B1:3087:A:C4	29:B1:3088:G:C8	3.03	0.45
29:B1:3101:G:C5	29:B1:3134:A:C2	3.04	0.45
29:B1:3129:A:H2'	29:B1:3129:A:N3	2.31	0.45
29:B1:3278:C:O3'	29:B1:3279:A:O4'	2.33	0.45
29:B1:3298:C:C4	29:B1:3299:A:N6	2.85	0.45
29:B1:3310:A:C2	29:B1:3311:C:C1'	3.00	0.45
30:B2:11:A:O3'	30:B2:68:C:H4'	2.16	0.45
30:B2:11:A:O5'	30:B2:13:A:C4	2.70	0.45
30:B2:120:C:H2'	30:B2:121:U:C5	2.51	0.45
31:B3:40:A:HO2'	31:B3:41:A:P	2.39	0.45
31:B3:104:A:C8	31:B3:105:A:N7	2.84	0.45
31:B3:116:G:C2'	31:B3:117:C:O5'	2.65	0.45
34:BC:278:ILE:O	34:BC:280:HIS:N	2.45	0.45
36:BE:44:TYR:CA	36:BE:45:ASN:CB	2.94	0.45
36:BE:274:GLN:C	36:BE:276:LYS:H	2.25	0.45
38:BG:163:LEU:C	38:BG:165:ASP:H	2.24	0.45
39:BH:103:ALA:C	39:BH:105:LYS:N	2.75	0.45
43:BN:86:ALA:HA	43:BN:90:VAL:CB	2.47	0.45
44:BO:108:ARG:C	44:BO:110:ALA:H	2.24	0.45
54:BY:36:GLY:O	54:BY:37:GLY:O	2.35	0.45
54:BY:46:ASP:HA	54:BY:47:LYS:HA	1.33	0.45
55:BZ:28:LYS:O	55:BZ:31:VAL:N	2.49	0.45
59:Bd:36:SER:CB	74:Bd:101:OHX:N3	2.80	0.45
68:Bn:7:UNK:C	68:Bn:9:UNK:N	2.80	0.45
1:C1:262:U:H2'	1:C1:263:C:C6	2.50	0.45
1:C1:289:U:O2	1:C1:290:G:O4'	2.34	0.45
1:C1:312:A:H4'	1:C1:313:U:H5"	1.98	0.45
1:C1:321:C:H2'	1:C1:322:G:C8	2.52	0.45
1:C1:361:C:O2'	1:C1:362:G:H5'	2.16	0.45
1:C1:749:U:O2	1:C1:801:G:N3	2.49	0.45
1:C1:789:A:C5	1:C1:790:U:C4	3.04	0.45
1:C1:792:U:H2'	1:C1:793:A:C5'	2.46	0.45
1:C1:837:G:N1	1:C1:838:G:C5	2.83	0.45
1:C1:1003:A:C1'	1:C1:1004:U:OP2	2.64	0.45
1:C1:1117:U:C2	1:C1:1118:G:C8	3.05	0.45
1:C1:1200:G:O3'	1:C1:1201:G:O4'	2.33	0.45
1:C1:1217:A:OP2	1:C1:1218:G:H3'	2.16	0.45
1:C1:1218:G:C6	1:C1:1444:A:H8	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1367:G:N7	74:C1:2001:OHX:N3	2.64	0.45
1:C1:1508:U:O4	74:C1:1903:OHX:N4	2.49	0.45
1:C1:1534:G:H4'	1:C1:1536:G:C6	2.51	0.45
1:C1:1566:U:H2'	1:C1:1567:U:C5'	2.46	0.45
6:CE:66:ASP:O	6:CE:68:LYS:N	2.49	0.45
6:CE:99:LEU:O	6:CE:102:GLU:N	2.48	0.45
8:CG:138:ASN:HA	8:CG:142:GLU:H	1.82	0.45
9:CH:49:LYS:O	9:CH:50:ALA:C	2.58	0.45
12:CK:67:ARG:O	12:CK:68:GLY:C	2.59	0.45
17:CP:107:PHE:O	17:CP:108:GLY:C	2.59	0.45
21:CT:194:GLY:O	21:CT:195:HIS:C	2.59	0.45
29:D1:22:G:H2'	29:D1:23:A:O4'	2.16	0.45
29:D1:32:U:C4	29:D1:33:G:C5	3.05	0.45
29:D1:174:C:O5'	29:D1:174:C:H6	1.99	0.45
29:D1:282:G:H4'	29:D1:283:G:O5'	2.12	0.45
29:D1:299:G:C5	29:D1:300:G:N7	2.84	0.45
29:D1:411:U:C2'	29:D1:412:G:H5'	2.45	0.45
29:D1:597:G:N3	29:D1:598:A:N9	2.64	0.45
29:D1:773:G:H21	29:D1:774:G:C1'	2.28	0.45
29:D1:867:G:C6	29:D1:868:C:C4	3.04	0.45
29:D1:976:U:C4	29:D1:977:C:N4	2.84	0.45
29:D1:1008:U:C2	29:D1:1043:C:C2	3.04	0.45
29:D1:1078:U:O4	29:D1:1082:U:C4	2.69	0.45
29:D1:1108:U:C2	29:D1:1109:U:C5	3.04	0.45
29:D1:1141:C:H2'	29:D1:1142:G:H8	1.81	0.45
29:D1:1168:U:H2'	29:D1:1169:A:C5'	2.47	0.45
29:D1:1197:A:H5'	29:D1:1197:A:C8	2.51	0.45
29:D1:1287:A:H2'	29:D1:1288:U:H6	1.81	0.45
29:D1:1296:C:O2'	29:D1:1297:C:OP1	2.33	0.45
29:D1:1393:A:C2'	29:D1:1394:A:H5"	2.46	0.45
29:D1:1464:G:H21	29:D1:1466:G:H8	1.64	0.45
29:D1:1480:G:N3	29:D1:1480:G:H2'	2.31	0.45
29:D1:1488:G:C6	29:D1:1855:U:C4	3.04	0.45
29:D1:1499:C:O2'	29:D1:1500:G:H5'	2.16	0.45
29:D1:1628:C:O3'	29:D1:1630:U:H6	1.99	0.45
29:D1:1746:U:H2'	29:D1:1747:G:O4'	2.16	0.45
29:D1:1839:A:OP1	74:D1:3588:OHX:N6	2.49	0.45
29:D1:1948:G:N3	29:D1:1949:G:C8	2.85	0.45
29:D1:2192:C:C2'	29:D1:2193:U:H5'	2.42	0.45
29:D1:2262:A:H5"	29:D1:2263:C:OP2	2.16	0.45
29:D1:2320:A:H8	29:D1:2320:A:O5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2370:G:C6	29:D1:2371:G:C5	3.04	0.45
29:D1:2521:U:H2'	29:D1:2522:G:C4'	2.47	0.45
29:D1:2592:G:H4'	29:D1:2594:C:C2	2.52	0.45
29:D1:2628:A:O4'	29:D1:2798:C:C5	2.69	0.45
29:D1:2673:A:C2	29:D1:2676:A:C8	3.03	0.45
29:D1:2730:G:C2	29:D1:2731:U:C6	3.04	0.45
29:D1:2808:A:N3	29:D1:2808:A:C2'	2.80	0.45
29:D1:2809:C:C2'	29:D1:2810:C:OP1	2.64	0.45
29:D1:3077:A:N7	29:D1:3080:G:C8	2.84	0.45
29:D1:3097:C:C6	29:D1:3097:C:C3'	2.99	0.45
29:D1:3182:G:O5'	29:D1:3182:G:H8	1.99	0.45
29:D1:3205:G:C2	43:DN:89:ALA:HB1	2.51	0.45
29:D1:3309:G:C5	29:D1:3310:A:C1'	3.00	0.45
29:D1:3323:A:C2	29:D1:3324:C:N1	2.84	0.45
30:D2:74:C:C5	30:D2:75:G:N7	2.84	0.45
31:D3:8:C:C5	31:D3:9:A:N7	2.85	0.45
31:D3:91:C:O5'	31:D3:91:C:H6	2.00	0.45
31:D3:131:A:N3	31:D3:132:G:C8	2.84	0.45
34:DC:104:THR:O	34:DC:105:VAL:O	2.34	0.45
36:DE:42:ALA:CB	49:DT:69:LYS:O	2.65	0.45
36:DE:193:GLU:O	36:DE:196:ARG:CB	2.64	0.45
36:DE:247:ILE:C	36:DE:249:ALA:H	2.25	0.45
36:DE:254:LYS:C	36:DE:256:THR:H	2.24	0.45
37:DF:24:ALA:N	37:DF:114:LYS:CB	2.79	0.45
37:DF:30:LEU:CB	37:DF:31:ARG:CA	2.94	0.45
38:DG:132:PRO:O	38:DG:229:PHE:CB	2.64	0.45
39:DH:210:ALA:O	39:DH:211:LEU:C	2.59	0.45
41:DJ:66:GLU:O	41:DJ:68:ALA:N	2.49	0.45
41:DJ:94:PHE:O	41:DJ:126:ALA:O	2.34	0.45
42:DK:155:THR:HA	42:DK:159:THR:CB	2.46	0.45
43:DN:9:ALA:O	43:DN:14:LEU:CB	2.65	0.45
44:DO:59:PHE:O	44:DO:60:VAL:CB	2.63	0.45
52:DW:68:THR:HA	52:DW:72:ALA:CB	2.46	0.45
55:DZ:91:SER:O	55:DZ:92:ILE:C	2.60	0.45
59:Dd:42:ALA:O	59:Dd:43:LYS:C	2.60	0.45
62:Dg:73:THR:O	62:Dg:74:ALA:HB3	2.17	0.45
1:A1:104:A:N6	1:A1:106:U:C2	2.84	0.45
1:A1:110:U:C3'	1:A1:111:U:H5"	2.43	0.45
1:A1:126:A:C2	1:A1:292:U:H1'	2.50	0.45
1:A1:142:G:C6	1:A1:266:A:N7	2.84	0.45
1:A1:280:U:H5'	1:A1:281:G:OP2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:657:U:O2'	1:A1:661:A:N6	2.50	0.45
1:A1:704:C:O2'	1:A1:705:U:H5"	2.16	0.45
1:A1:774:A:C6	1:A1:787:G:C2	3.04	0.45
1:A1:819:G:N1	1:A1:854:U:N3	2.65	0.45
1:A1:824:G:N1	1:A1:850:A:C2	2.84	0.45
1:A1:830:U:OP1	1:A1:830:U:H3'	2.16	0.45
1:A1:848:C:N3	1:A1:849:C:C4	2.85	0.45
1:A1:921:U:C2'	1:A1:922:G:H5'	2.47	0.45
1:A1:938:G:C2	1:A1:942:G:C6	3.04	0.45
1:A1:1236:A:C2	1:A1:1237:G:C4	3.05	0.45
1:A1:1277:G:C2'	1:A1:1278:G:H5'	2.47	0.45
1:A1:1294:G:N2	1:A1:1295:G:C4	2.84	0.45
1:A1:1294:G:N7	74:A1:1952:OHX:N3	2.65	0.45
1:A1:1364:G:C6	1:A1:1365:C:C4	3.05	0.45
1:A1:1541:G:C5	1:A1:1542:G:O6	2.69	0.45
1:A1:1765:A:OP2	74:A1:1931:OHX:N3	2.50	0.45
1:A1:1771:U:C2	1:A1:1772:C:C6	3.04	0.45
74:A1:1916:OHX:N5	74:A1:1975:OHX:N1	2.64	0.45
2:AA:13:ASP:O	2:AA:14:ALA:CB	2.65	0.45
3:AB:195:ASP:O	3:AB:196:VAL:O	2.34	0.45
11:AJ:89:LEU:O	11:AJ:97:VAL:HA	2.17	0.45
14:AM:116:ILE:O	14:AM:117:SER:O	2.34	0.45
21:AT:20:VAL:HA	21:AT:37:SER:CB	2.46	0.45
21:AT:116:ASP:O	21:AT:118:LYS:N	2.49	0.45
29:B1:76:G:OP2	29:B1:76:G:H8	1.99	0.45
29:B1:99:A:H1'	29:B1:281:G:C6	2.50	0.45
29:B1:107:A:O2'	29:B1:324:A:N3	2.41	0.45
29:B1:108:A:C2'	29:B1:109:A:H5"	2.47	0.45
29:B1:111:C:O2'	29:B1:112:U:H5'	2.16	0.45
29:B1:521:A:N7	29:B1:572:A:C6	2.84	0.45
29:B1:594:U:C4	29:B1:595:G:C2	3.04	0.45
29:B1:629:U:C3'	29:B1:630:A:H8	2.29	0.45
29:B1:636:C:C5	29:B1:2378:C:C1'	2.94	0.45
29:B1:643:U:O4	29:B1:644:G:C5	2.69	0.45
29:B1:699:A:C8	29:B1:699:A:C3'	2.99	0.45
29:B1:723:U:H6	29:B1:723:U:C4'	2.29	0.45
29:B1:995:U:C4	29:B1:2637:A:C8	3.03	0.45
29:B1:1112:A:H3'	29:B1:1113:G:C8	2.52	0.45
29:B1:1228:C:H2'	29:B1:1229:G:C1'	2.47	0.45
29:B1:1468:A:C2'	29:B1:1469:C:O5'	2.64	0.45
29:B1:1669:C:C4	29:B1:1670:C:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1685:C:C6	29:B1:1687:U:C5	3.04	0.45
29:B1:1695:U:O2'	29:B1:1749:A:C6	2.67	0.45
29:B1:1759:C:H2'	29:B1:1760:A:H5"	1.98	0.45
29:B1:1878:G:C3'	29:B1:1879:A:H5'	2.47	0.45
29:B1:1891:A:N6	29:B1:2345:A:N6	2.64	0.45
29:B1:2222:A:O2'	29:B1:2223:A:H5"	2.17	0.45
29:B1:2287:C:O2	29:B1:2298:U:H5"	2.17	0.45
29:B1:2413:A:C2	29:B1:2414:G:C5	3.04	0.45
29:B1:2432:A:H2'	29:B1:2432:A:N3	2.32	0.45
29:B1:2590:A:C4	29:B1:2591:A:H8	2.35	0.45
29:B1:2732:G:H2'	29:B1:2733:A:C8	2.51	0.45
29:B1:2735:U:H2'	29:B1:2736:A:C8	2.52	0.45
29:B1:2805:G:O2'	29:B1:2806:U:C5'	2.65	0.45
29:B1:2840:C:N4	29:B1:2841:G:C5	2.85	0.45
29:B1:3003:G:N1	29:B1:3004:C:C4	2.85	0.45
29:B1:3004:C:H2'	29:B1:3005:A:O5'	2.17	0.45
29:B1:3244:A:O2'	29:B1:3245:A:C8	2.65	0.45
29:B1:3263:G:C2	29:B1:3264:G:C4	3.04	0.45
29:B1:3271:G:N3	29:B1:3271:G:C3'	2.79	0.45
29:B1:3326:G:N1	29:B1:3327:G:C5	2.85	0.45
29:B1:3355:U:O2'	29:B1:3356:G:O4'	2.35	0.45
29:B1:3374:U:O2'	29:B1:3375:A:N3	2.43	0.45
29:B1:3386:G:H8	29:B1:3386:G:C3'	2.25	0.45
31:B3:24:G:H8	31:B3:24:G:C5'	2.29	0.45
31:B3:105:A:O3'	31:B3:106:C:H2'	2.16	0.45
35:BD:7:THR:H	35:BD:19:ALA:HA	1.80	0.45
37:BF:159:LEU:O	37:BF:162:SER:N	2.49	0.45
38:BG:98:LYS:O	38:BG:100:ARG:N	2.49	0.45
39:BH:223:ALA:C	39:BH:225:LYS:N	2.73	0.45
43:BN:46:ILE:N	43:BN:56:GLN:H	2.14	0.45
43:BN:65:LEU:O	43:BN:66:THR:O	2.33	0.45
44:BO:24:ARG:O	44:BO:25:VAL:C	2.57	0.45
44:BO:57:GLN:C	44:BO:59:PHE:H	2.25	0.45
44:BO:158:HIS:C	44:BO:160:GLU:N	2.73	0.45
45:BP:60:LYS:O	45:BP:61:ALA:C	2.59	0.45
45:BP:130:LYS:HA	45:BP:131:PRO:CB	2.46	0.45
47:BR:93:ILE:O	47:BR:94:PHE:CB	2.64	0.45
54:BY:37:GLY:C	54:BY:39:HIS:H	2.24	0.45
67:Bm:11:UNK:HA	67:Bm:14:UNK:CB	2.46	0.45
70:Bq:8:UNK:O	70:Bq:12:UNK:N	2.49	0.45
71:Br:2:UNK:HA	71:Br:5:UNK:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:14:C:H2'	1:C1:15:U:H6	1.81	0.45
1:C1:58:U:O2	1:C1:58:U:C2'	2.63	0.45
1:C1:101:U:C2'	1:C1:102:U:O5'	2.64	0.45
1:C1:127:G:C5	1:C1:179:A:N7	2.84	0.45
1:C1:129:U:C5	1:C1:264:G:N7	2.84	0.45
1:C1:129:U:O4	1:C1:264:G:C8	2.69	0.45
1:C1:174:U:O4	1:C1:175:G:C6	2.69	0.45
1:C1:209:U:H3'	1:C1:210:A:H8	1.81	0.45
1:C1:295:A:O2'	1:C1:296:U:O5'	2.27	0.45
1:C1:329:G:C4	1:C1:330:G:N7	2.84	0.45
1:C1:397:A:H2'	1:C1:397:A:N3	2.31	0.45
1:C1:456:A:C6	1:C1:457:G:C5	3.04	0.45
1:C1:722:G:O2'	1:C1:723:G:H3'	2.15	0.45
1:C1:798:C:O2'	1:C1:799:A:H5'	2.17	0.45
1:C1:910:C:H2'	1:C1:910:C:O2	2.16	0.45
1:C1:947:U:O5'	1:C1:947:U:H6	1.99	0.45
1:C1:968:U:C2'	1:C1:969:C:O5'	2.64	0.45
1:C1:1118:G:C2	1:C1:1119:G:N9	2.85	0.45
1:C1:1200:G:H5'	1:C1:1201:G:H8	1.74	0.45
1:C1:1201:G:H3'	1:C1:1201:G:C4	2.43	0.45
1:C1:1277:G:C2	1:C1:1436:A:C4	3.05	0.45
1:C1:1281:G:C5	1:C1:1282:U:C5	3.05	0.45
1:C1:1370:U:N3	1:C1:1371:A:H8	2.15	0.45
1:C1:1370:U:C4	1:C1:1371:A:N7	2.85	0.45
1:C1:1558:U:H5	1:C1:1559:A:H3'	1.81	0.45
1:C1:1584:G:N9	11:CJ:123:ARG:C	2.75	0.45
1:C1:1640:C:H3'	1:C1:1640:C:C6	2.51	0.45
2:CA:48:ILE:O	2:CA:49:ASN:C	2.59	0.45
4:CC:27:ARG:C	4:CC:29:LEU:N	2.75	0.45
14:CM:15:ILE:O	14:CM:16:ASN:C	2.58	0.45
14:CM:68:ARG:C	14:CM:70:GLN:N	2.75	0.45
17:CP:43:PHE:C	17:CP:45:GLY:N	2.75	0.45
29:D1:25:U:O4	29:D1:331:G:C8	2.70	0.45
29:D1:46:U:O4	29:D1:47:C:C4	2.69	0.45
29:D1:118:U:H5'	29:D1:118:U:H6	1.81	0.45
29:D1:154:U:OP1	29:D1:156:G:C6	2.70	0.45
29:D1:221:A:N3	29:D1:224:C:C5	2.85	0.45
29:D1:223:U:OP1	29:D1:225:C:N4	2.49	0.45
29:D1:252:U:H4'	29:D1:253:A:OP2	2.17	0.45
29:D1:331:G:O6	31:D3:33:A:N1	2.48	0.45
29:D1:532:A:N1	29:D1:560:G:C2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:546:C:H6	29:D1:546:C:H3'	1.81	0.45
29:D1:561:C:O2'	29:D1:562:C:P	2.73	0.45
29:D1:597:G:N3	29:D1:598:A:H1'	2.31	0.45
29:D1:653:A:O4'	29:D1:2360:C:H2'	2.16	0.45
29:D1:739:G:H2'	29:D1:739:G:N3	2.31	0.45
29:D1:826:G:N3	29:D1:827:A:C8	2.85	0.45
29:D1:945:C:C2'	29:D1:946:U:H6	2.29	0.45
29:D1:1020:G:C6	29:D1:1021:G:N7	2.85	0.45
29:D1:1105:A:C4	29:D1:1106:G:C8	3.04	0.45
29:D1:1140:G:N3	29:D1:1140:G:C2'	2.79	0.45
29:D1:1242:G:C6	29:D1:1243:G:N1	2.84	0.45
29:D1:1295:G:H2'	29:D1:1296:C:C5	2.50	0.45
29:D1:1315:U:O2'	29:D1:1316:C:C5'	2.65	0.45
29:D1:1357:G:N3	29:D1:1358:C:C6	2.85	0.45
29:D1:1449:A:C2	29:D1:2356:A:C5	3.03	0.45
29:D1:1551:C:OP1	29:D1:1551:C:H6	1.99	0.45
29:D1:1627:U:C5	29:D1:1628:C:C2	3.05	0.45
29:D1:1631:C:C2	29:D1:1645:U:C5	3.05	0.45
29:D1:1675:G:C2	29:D1:1773:C:N3	2.84	0.45
29:D1:1724:U:O2'	29:D1:1725:C:C4'	2.64	0.45
29:D1:1844:C:H1'	59:Dd:9:GLY:HA2	1.98	0.45
29:D1:1908:A:N6	29:D1:1909:A:N1	2.64	0.45
29:D1:1934:G:H2'	29:D1:1935:G:O4'	2.16	0.45
29:D1:2188:A:H2	62:Dg:19:GLY:CA	2.29	0.45
29:D1:2302:G:H2'	29:D1:2303:A:O4'	2.16	0.45
29:D1:2325:G:C4	29:D1:2326:A:C8	3.05	0.45
29:D1:2510:U:C2	29:D1:2511:A:H8	2.33	0.45
29:D1:2529:A:C6	29:D1:2530:G:C6	3.04	0.45
29:D1:2589:G:N3	29:D1:2589:G:H2'	2.31	0.45
29:D1:2654:C:C4'	29:D1:2657:A:C6	2.99	0.45
29:D1:2658:G:H1	29:D1:2712:U:H3	1.64	0.45
29:D1:2839:G:C6	29:D1:2850:G:N2	2.84	0.45
29:D1:2872:A:O4'	29:D1:2873:U:OP1	2.34	0.45
29:D1:2902:A:O2'	29:D1:2903:A:H5'	2.17	0.45
29:D1:2976:A:H8	29:D1:2976:A:O5'	1.99	0.45
29:D1:3060:C:C2'	29:D1:3061:G:O5'	2.63	0.45
29:D1:3137:C:H5'	29:D1:3138:U:OP2	2.17	0.45
29:D1:3292:A:C2'	29:D1:3293:U:H4'	2.46	0.45
29:D1:3322:A:C4	29:D1:3323:A:N7	2.84	0.45
29:D1:3341:U:C4	29:D1:3362:A:N1	2.84	0.45
29:D1:3351:U:H1'	29:D1:3352:U:OP1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3390:G:C2	29:D1:3391:A:N3	2.83	0.45
29:D1:3393:U:C2	29:D1:3394:U:C6	3.03	0.45
30:D2:9:C:O5'	30:D2:10:C:O5'	2.35	0.45
30:D2:68:C:O2'	30:D2:69:C:O5'	2.30	0.45
30:D2:80:G:C4	30:D2:81:U:C6	3.04	0.45
31:D3:8:C:C4	31:D3:9:A:N7	2.85	0.45
31:D3:69:U:C3'	31:D3:70:G:C4'	2.83	0.45
31:D3:145:U:O2'	31:D3:146:U:H5'	2.17	0.45
32:DA:56:PRO:HA	32:DA:155:ILE:N	2.32	0.45
34:DC:80:ASP:O	34:DC:82:PRO:N	2.50	0.45
34:DC:238:LEU:CB	34:DC:246:LEU:O	2.65	0.45
36:DE:123:GLU:O	36:DE:124:GLU:C	2.60	0.45
36:DE:281:GLU:O	36:DE:282:ARG:O	2.35	0.45
37:DF:156:LYS:O	37:DF:160:SER:N	2.45	0.45
39:DH:116:VAL:O	39:DH:119:GLY:N	2.49	0.45
40:DI:104:VAL:CB	40:DI:105:GLU:CA	2.94	0.45
73:DM:60:ARG:C	73:DM:62:ALA:H	2.25	0.45
44:DO:85:THR:CB	44:DO:88:GLY:N	2.78	0.45
49:DT:70:SER:C	49:DT:72:VAL:N	2.74	0.45
58:Dc:1:MET:H3	58:Dc:5:LYS:H	1.63	0.45
1:A1:9:U:N3	1:A1:11:A:OP2	2.50	0.45
1:A1:55:A:C3'	1:A1:56:U:C5'	2.95	0.45
1:A1:89:G:C5	1:A1:90:C:C5	3.05	0.45
1:A1:275:C:C4	1:A1:276:C:N4	2.84	0.45
1:A1:289:U:N3	1:A1:290:G:C8	2.84	0.45
1:A1:330:G:C5	1:A1:331:A:N7	2.85	0.45
1:A1:600:U:H2'	1:A1:601:A:H8	1.80	0.45
1:A1:614:C:O2	1:A1:614:C:H2'	2.17	0.45
1:A1:718:U:H2'	1:A1:719:U:N3	2.31	0.45
1:A1:774:A:H2'	1:A1:775:G:C5'	2.46	0.45
1:A1:825:U:O2	1:A1:825:U:H2'	2.17	0.45
1:A1:828:U:C5	1:A1:829:A:N6	2.85	0.45
1:A1:845:G:C2'	1:A1:846:G:H5"	2.45	0.45
1:A1:860:U:N3	1:A1:861:U:C2	2.79	0.45
1:A1:876:G:H2'	1:A1:936:G:N2	2.32	0.45
1:A1:947:U:O5'	1:A1:947:U:H6	2.00	0.45
1:A1:1001:A:C5	1:A1:1002:G:C5	3.04	0.45
1:A1:1076:A:H2'	1:A1:1077:C:C5'	2.46	0.45
1:A1:1091:A:C4'	1:A1:1092:A:O5'	2.59	0.45
1:A1:1120:U:N3	1:A1:1121:C:C5	2.84	0.45
1:A1:1216:C:O3'	1:A1:1217:A:H3'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1297:G:C8	1:A1:1297:G:H3'	2.51	0.45
1:A1:1615:C:H3'	1:A1:1616:G:H5"	1.99	0.45
1:A1:1672:G:C2	1:A1:1673:G:C6	3.05	0.45
4:AC:27:ARG:C	4:AC:29:LEU:N	2.75	0.45
4:AC:92:GLN:O	4:AC:94:ARG:N	2.49	0.45
6:AE:72:GLU:C	6:AE:75:ALA:HB3	2.42	0.45
10:AI:45:PHE:CB	10:AI:46:ALA:CA	2.88	0.45
11:AJ:102:LYS:C	11:AJ:104:GLU:N	2.74	0.45
11:AJ:105:LEU:O	11:AJ:106:LYS:C	2.59	0.45
12:AK:38:ILE:O	12:AK:39:ALA:O	2.35	0.45
13:AL:46:VAL:O	13:AL:48:LYS:N	2.44	0.45
17:AP:97:ASP:O	17:AP:98:GLU:C	2.59	0.45
17:AP:114:LYS:CB	17:AP:115:GLY:CA	2.94	0.45
21:AT:267:PRO:O	21:AT:269:TYR:N	2.46	0.45
29:B1:32:U:H2'	29:B1:33:G:H8	1.82	0.45
29:B1:197:G:C4	29:B1:198:A:C8	3.05	0.45
29:B1:282:G:P	29:B1:282:G:C3'	3.01	0.45
29:B1:337:G:C2	31:B3:27:U:O2	2.70	0.45
29:B1:393:U:N3	29:B1:394:G:C5	2.73	0.45
29:B1:397:A:N1	29:B1:400:G:C2	2.84	0.45
29:B1:813:G:N2	29:B1:814:U:C2	2.84	0.45
29:B1:817:A:N1	59:Bd:15:SER:CB	2.79	0.45
29:B1:993:G:H1	29:B1:1056:U:H3	1.64	0.45
29:B1:1191:U:O5'	29:B1:1192:C:OP2	2.35	0.45
29:B1:1347:U:C3'	29:B1:1348:U:C5	2.99	0.45
29:B1:1393:A:C2	29:B1:1394:A:N9	2.84	0.45
29:B1:1421:G:C2	29:B1:1422:G:C5	3.04	0.45
29:B1:1604:G:H2'	29:B1:1605:A:H5"	1.97	0.45
29:B1:1617:G:C2'	29:B1:1618:G:H5'	2.47	0.45
29:B1:1645:U:C2'	29:B1:1646:G:O5'	2.65	0.45
29:B1:1677:G:C4	29:B1:1678:G:C8	3.04	0.45
29:B1:1721:U:O2	29:B1:1723:A:C8	2.69	0.45
29:B1:1806:A:O2'	29:B1:1807:G:O5'	2.33	0.45
29:B1:1889:G:OP1	34:BC:245:GLY:C	2.60	0.45
29:B1:2144:A:C5	29:B1:2281:A:N1	2.84	0.45
29:B1:2160:G:O6	29:B1:2174:G:O6	2.34	0.45
29:B1:2410:U:O2	29:B1:2410:U:H2'	2.15	0.45
29:B1:2514:U:O2'	29:B1:2515:A:C8	2.70	0.45
29:B1:2707:C:O2'	29:B1:2708:C:H5'	2.17	0.45
29:B1:2844:C:H42	29:B1:2898:G:N2	2.08	0.45
29:B1:2886:U:N3	29:B1:2911:A:C6	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3026:G:N2	29:B1:3030:G:N7	2.63	0.45
29:B1:3030:G:H2'	29:B1:3031:G:C8	2.52	0.45
29:B1:3102:G:O2'	29:B1:3103:A:OP1	2.30	0.45
29:B1:3126:C:N3	29:B1:3127:A:C8	2.85	0.45
29:B1:3207:U:C6	29:B1:3209:A:C4	3.04	0.45
29:B1:3306:U:H2'	29:B1:3308:C:OP2	2.17	0.45
30:B2:8:G:OP1	49:BT:28:SER:CB	2.65	0.45
30:B2:87:G:C2	30:B2:95:A:C5	3.04	0.45
30:B2:88:G:C6	30:B2:89:G:C6	3.05	0.45
31:B3:14:C:C6	31:B3:15:G:N7	2.85	0.45
31:B3:49:G:C8	58:Bc:40:SER:O	2.70	0.45
31:B3:94:C:O5'	31:B3:94:C:C6	2.70	0.45
33:BB:181:LYS:C	33:BB:182:ALA:O	2.58	0.45
34:BC:141:GLY:O	34:BC:142:ALA:C	2.60	0.45
34:BC:289:ASP:CB	34:BC:290:ASP:CB	2.95	0.45
37:BF:98:VAL:O	37:BF:99:GLU:C	2.60	0.45
38:BG:222:HIS:CB	38:BG:226:GLY:O	2.64	0.45
62:Bg:20:SER:O	62:Bg:21:SER:C	2.59	0.45
1:C1:5:U:C2	1:C1:20:G:N2	2.84	0.45
1:C1:27:U:C2'	1:C1:28:A:H5'	2.46	0.45
1:C1:32:U:H2'	1:C1:33:U:C5'	2.46	0.45
1:C1:36:C:C2	1:C1:473:A:C2	3.04	0.45
1:C1:68:A:H4'	1:C1:69:G:OP1	2.14	0.45
1:C1:98:U:C2	1:C1:99:C:C5	3.05	0.45
1:C1:145:A:N1	1:C1:171:A:N1	2.64	0.45
1:C1:166:C:N4	1:C1:167:U:O4	2.50	0.45
1:C1:168:A:C2'	1:C1:169:A:C8	2.99	0.45
1:C1:168:A:N6	1:C1:169:A:N6	2.64	0.45
1:C1:206:A:C2	1:C1:262:U:C4	3.04	0.45
1:C1:378:A:OP1	1:C1:378:A:N9	2.47	0.45
1:C1:556:A:O2'	1:C1:590:C:O4'	2.18	0.45
1:C1:558:U:C4	1:C1:559:C:N4	2.84	0.45
1:C1:615:A:N1	1:C1:1107:G:C6	2.84	0.45
1:C1:743:U:C2	1:C1:809:A:N3	2.82	0.45
1:C1:763:G:C4	1:C1:764:U:C5	3.04	0.45
1:C1:765:G:C4'	1:C1:766:U:OP1	2.62	0.45
1:C1:824:G:H5"	1:C1:825:U:OP1	2.16	0.45
1:C1:847:A:C2'	1:C1:848:C:H5'	2.42	0.45
1:C1:852:C:C4	1:C1:853:G:C2	3.05	0.45
1:C1:1164:G:H2'	1:C1:1165:G:H8	1.82	0.45
1:C1:1240:U:P	1:C1:1241:G:OP2	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1362:U:H3'	1:C1:1363:U:C4'	2.46	0.45
1:C1:1733:C:N3	1:C1:1734:U:C4	2.85	0.45
1:C1:1781:A:N1	1:C1:1782:A:N1	2.65	0.45
3:CB:65:GLU:C	3:CB:68:ILE:CB	2.89	0.45
6:CE:53:ARG:HA	6:CE:56:ALA:HB3	1.98	0.45
8:CG:127:ARG:C	8:CG:129:TYR:N	2.75	0.45
13:CL:50:ALA:C	13:CL:52:VAL:N	2.75	0.45
18:CQ:41:ILE:C	18:CQ:43:ASP:N	2.74	0.45
20:CS:52:PHE:O	20:CS:53:ASN:C	2.59	0.45
21:CT:37:SER:C	21:CT:39:ASP:N	2.71	0.45
29:D1:26:A:O2'	29:D1:329:U:H1'	2.17	0.45
29:D1:39:A:C8	29:D1:41:G:P	3.10	0.45
29:D1:53:G:O2'	29:D1:54:C:H5'	2.16	0.45
29:D1:88:A:C2	29:D1:281:G:C2	3.00	0.45
29:D1:110:G:C2	29:D1:322:U:O2	2.70	0.45
29:D1:265:A:H4'	29:D1:266:A:OP1	2.14	0.45
29:D1:288:C:H2'	29:D1:289:A:H8	1.76	0.45
29:D1:297:G:H4'	29:D1:299:G:C4'	2.47	0.45
29:D1:301:G:H2'	29:D1:302:U:O5'	2.17	0.45
29:D1:317:A:C2'	29:D1:318:A:O5'	2.65	0.45
29:D1:339:C:OP2	29:D1:1380:G:O2'	2.32	0.45
29:D1:359:U:O2'	29:D1:360:G:H5'	2.17	0.45
29:D1:374:A:H4'	29:D1:375:A:H5'	1.99	0.45
29:D1:412:G:N1	29:D1:413:U:C2	2.85	0.45
29:D1:511:G:N1	29:D1:579:G:N1	2.64	0.45
29:D1:518:G:H1	29:D1:572:A:N6	2.14	0.45
29:D1:550:A:O2'	29:D1:551:A:H5'	2.17	0.45
29:D1:643:U:H3'	29:D1:643:U:C6	2.52	0.45
29:D1:650:C:H5'	29:D1:2872:A:P	2.57	0.45
29:D1:684:G:C4	29:D1:685:G:C8	3.05	0.45
29:D1:783:A:H2'	29:D1:784:A:O5'	2.17	0.45
29:D1:784:A:C2'	29:D1:785:G:C8	2.84	0.45
29:D1:804:C:N4	29:D1:940:G:N1	2.63	0.45
29:D1:968:G:C5	29:D1:969:C:C5	3.05	0.45
29:D1:994:G:OP2	29:D1:994:G:H8	2.00	0.45
29:D1:1213:G:H2'	29:D1:1214:U:O5'	2.16	0.45
29:D1:1610:G:H2'	29:D1:1611:G:H8	1.79	0.45
29:D1:1830:G:C4	29:D1:1831:U:C5	3.04	0.45
29:D1:1902:G:C2	29:D1:1903:U:H1'	2.52	0.45
29:D1:2251:G:C2	29:D1:2252:A:C8	3.05	0.45
29:D1:2315:G:N2	29:D1:2316:G:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2394:G:C4	34:DC:259:HIS:CB	3.00	0.45
29:D1:2407:C:C1'	29:D1:2818:U:H3	2.27	0.45
29:D1:2707:C:O2'	29:D1:2708:C:O5'	2.35	0.45
29:D1:2835:U:H2'	29:D1:2835:U:O2	2.16	0.45
29:D1:2847:A:N7	29:D1:2898:G:C4	2.85	0.45
29:D1:2914:G:H2'	29:D1:2915:U:O4'	2.17	0.45
29:D1:3020:U:H2'	29:D1:3021:A:OP1	2.16	0.45
29:D1:3038:U:O2'	29:D1:3039:C:P	2.74	0.45
29:D1:3046:A:C4	29:D1:3047:U:C5	3.05	0.45
29:D1:3082:C:O2'	29:D1:3083:G:H5'	2.17	0.45
29:D1:3170:A:H2'	29:D1:3171:U:O5'	2.16	0.45
29:D1:3240:C:H2'	29:D1:3241:G:H8	1.81	0.45
30:D2:35:C:C6	30:D2:35:C:C5'	2.95	0.45
30:D2:75:G:C5'	30:D2:76:A:OP2	2.65	0.45
30:D2:107:C:H2'	30:D2:108:A:O4'	2.16	0.45
31:D3:76:C:C2'	53:DX:76:LEU:CB	2.91	0.45
33:DB:44:ILE:HA	33:DB:60:LYS:HA	1.98	0.45
35:DD:273:GLY:C	35:DD:275:THR:H	2.25	0.45
36:DE:38:THR:HA	36:DE:41:LYS:CB	2.46	0.45
36:DE:102:GLY:O	36:DE:105:ILE:O	2.35	0.45
36:DE:125:VAL:HA	36:DE:126:GLU:HA	1.61	0.45
36:DE:173:VAL:O	36:DE:174:PRO:CB	2.63	0.45
43:DN:24:LYS:CB	43:DN:31:LYS:CA	2.94	0.45
48:DS:24:LEU:O	48:DS:25:ASP:C	2.60	0.45
53:DX:89:LYS:C	53:DX:91:ASN:N	2.72	0.45
54:DY:25:HIS:C	54:DY:27:LYS:N	2.69	0.45
54:DY:138:ILE:C	54:DY:140:ALA:N	2.74	0.45
56:Da:43:HIS:O	56:Da:45:GLY:N	2.49	0.45
62:Dg:88:GLU:O	62:Dg:90:VAL:O	2.35	0.45
63:Dh:17:UNK:O	63:Dh:18:UNK:C	2.64	0.45
1:A1:192:U:C6	1:A1:192:U:C3'	3.00	0.45
1:A1:287:G:O2'	1:A1:288:A:H5'	2.16	0.45
1:A1:290:G:H2'	1:A1:291:G:C8	2.50	0.45
1:A1:350:U:OP1	1:A1:351:C:O2'	2.21	0.45
1:A1:386:G:C2'	1:A1:387:A:O5'	2.65	0.45
1:A1:553:G:C5	1:A1:554:C:N3	2.84	0.45
1:A1:587:C:C4	1:A1:588:U:C4	3.04	0.45
1:A1:699:U:H5'	1:A1:700:C:OP2	2.17	0.45
1:A1:702:G:H21	1:A1:737:A:N6	2.15	0.45
1:A1:797:G:C2'	1:A1:798:C:H5'	2.47	0.45
1:A1:818:C:N4	1:A1:854:U:C4	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:910:C:H2'	1:A1:910:C:O2	2.17	0.45
1:A1:1125:A:N7	1:A1:1126:G:C1'	2.79	0.45
1:A1:1202:A:H62	1:A1:1456:C:H2'	1.81	0.45
1:A1:1329:A:C8	1:A1:1330:G:N7	2.85	0.45
1:A1:1329:A:H2'	1:A1:1330:G:C5'	2.47	0.45
1:A1:1334:U:C2	1:A1:1335:U:C5	3.05	0.45
1:A1:1351:G:C6	1:A1:1352:G:C5	3.04	0.45
1:A1:1353:U:H3	1:A1:1371:A:N6	2.15	0.45
1:A1:1391:A:N7	1:A1:1412:G:C6	2.84	0.45
1:A1:1444:A:H5"	1:A1:1445:G:OP1	2.17	0.45
1:A1:1472:C:H3'	1:A1:1472:C:P	2.56	0.45
1:A1:1591:C:O5'	1:A1:1591:C:H6	2.00	0.45
1:A1:1675:C:O2'	1:A1:1678:A:H8	1.96	0.45
1:A1:1721:A:O3'	1:A1:1722:A:H4'	2.08	0.45
1:A1:1727:G:C2	1:A1:1728:A:C6	3.05	0.45
1:A1:1778:G:H2'	1:A1:1779:U:C5'	2.45	0.45
5:AD:164:PRO:O	5:AD:165:LEU:C	2.59	0.45
6:AE:55:ALA:O	6:AE:58:ASP:CB	2.65	0.45
6:AE:94:ASP:C	6:AE:96:VAL:N	2.74	0.45
7:AF:80:MET:O	7:AF:81:HIS:C	2.59	0.45
14:AM:67:MET:HA	14:AM:70:GLN:O	2.16	0.45
24:Ac:1:UNK:N	24:Ac:73:UNK:C	2.80	0.45
24:Ac:52:UNK:CB	24:Ac:64:UNK:O	2.65	0.45
29:B1:19:U:O4	74:B3:211:OHX:N6	2.49	0.45
29:B1:41:G:N7	29:B1:42:C:C5	2.84	0.45
29:B1:43:A:OP1	29:B1:43:A:H4'	2.16	0.45
29:B1:54:C:H2'	29:B1:55:G:O5'	2.16	0.45
29:B1:123:A:C2	29:B1:145:G:N1	2.77	0.45
29:B1:648:C:C6	29:B1:2375:G:P	3.09	0.45
29:B1:1031:C:C4	29:B1:1032:C:C5	3.05	0.45
29:B1:1038:C:O2'	29:B1:1039:U:H5'	2.16	0.45
29:B1:1080:A:O2'	29:B1:1081:U:O5'	2.34	0.45
29:B1:1081:U:C2'	29:B1:1082:U:OP1	2.64	0.45
29:B1:1104:G:H2'	29:B1:1105:A:C5'	2.46	0.45
29:B1:1192:C:O4'	29:B1:1298:C:P	2.75	0.45
29:B1:1262:G:OP2	29:B1:1262:G:H2'	2.17	0.45
29:B1:1271:A:N3	29:B1:1271:A:O5'	2.49	0.45
29:B1:1286:A:C4'	29:B1:1287:A:OP1	2.65	0.45
29:B1:1342:C:H3'	29:B1:1343:A:H8	1.82	0.45
29:B1:1351:U:H2'	29:B1:1352:A:C8	2.52	0.45
29:B1:1468:A:O2'	29:B1:1469:C:OP1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1490:A:H61	29:B1:1838:G:H1'	1.81	0.45
29:B1:1506:A:C2'	29:B1:1507:G:H5'	2.47	0.45
29:B1:1593:A:C2'	29:B1:1594:A:C8	2.89	0.45
29:B1:1654:A:O2'	29:B1:1655:G:O5'	2.28	0.45
29:B1:1662:G:C6	29:B1:1663:C:C4	3.05	0.45
29:B1:1852:G:H2'	29:B1:1852:G:N3	2.32	0.45
29:B1:1857:C:C2'	29:B1:1858:A:C8	3.00	0.45
29:B1:1858:A:H2'	29:B1:1859:A:OP1	2.16	0.45
29:B1:1913:A:C6	29:B1:2120:A:N7	2.83	0.45
29:B1:1947:G:N3	29:B1:1947:G:H2'	2.29	0.45
29:B1:2140:U:H2'	29:B1:2141:U:C5'	2.46	0.45
29:B1:2154:U:C2'	29:B1:2155:G:H5'	2.46	0.45
29:B1:2289:U:C2'	29:B1:2290:C:C5'	2.94	0.45
29:B1:2316:G:H2'	29:B1:2317:A:H8	1.81	0.45
29:B1:2347:U:H2'	29:B1:2348:A:O4'	2.16	0.45
29:B1:2364:G:OP2	29:B1:2364:G:C8	2.70	0.45
29:B1:2530:G:O2'	29:B1:2531:C:O5'	2.33	0.45
29:B1:2562:A:C4	29:B1:2563:G:C8	3.04	0.45
29:B1:2674:A:O5'	42:BK:107:ASP:CB	2.65	0.45
29:B1:2675:C:N4	42:BK:24:GLY:HA3	2.32	0.45
29:B1:2681:U:O2'	29:B1:2682:C:OP2	2.35	0.45
29:B1:2687:G:C3'	29:B1:2687:G:C4	2.99	0.45
29:B1:2741:C:H2'	29:B1:2742:C:O4'	2.17	0.45
29:B1:3195:U:H3'	29:B1:3196:U:H3	1.81	0.45
29:B1:3323:A:C2	29:B1:3324:C:C6	3.05	0.45
29:B1:3347:A:C5	29:B1:3348:G:N7	2.85	0.45
30:B2:3:U:N3	30:B2:4:U:C5	2.85	0.45
30:B2:43:U:H2'	30:B2:43:U:O2	2.17	0.45
30:B2:73:C:N4	30:B2:74:C:N4	2.61	0.45
31:B3:10:A:H2'	31:B3:11:C:C6	2.47	0.45
31:B3:26:U:O5'	31:B3:26:U:H6	1.99	0.45
31:B3:78:G:H21	60:Be:26:TRP:CB	2.30	0.45
31:B3:82:U:O4	74:B3:205:OHX:N5	2.49	0.45
32:BA:188:ASN:C	32:BA:190:PHE:N	2.72	0.45
35:BD:273:GLY:C	35:BD:275:THR:N	2.72	0.45
36:BE:30:TYR:C	36:BE:32:GLN:H	2.24	0.45
36:BE:102:GLY:C	36:BE:166:ALA:HA	2.41	0.45
36:BE:281:GLU:O	36:BE:282:ARG:O	2.34	0.45
37:BF:43:LEU:N	37:BF:84:VAL:CB	2.73	0.45
37:BF:146:ILE:O	37:BF:147:ALA:C	2.59	0.45
39:BH:210:ALA:O	39:BH:211:LEU:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BI:51:GLN:CB	40:BI:52:LEU:HA	2.46	0.45
42:BK:39:GLN:C	42:BK:41:SER:H	2.25	0.45
46:BQ:84:PRO:O	46:BQ:85:ALA:HB3	2.17	0.45
48:BS:70:LYS:C	48:BS:72:GLU:N	2.75	0.45
62:Bg:64:VAL:C	62:Bg:66:GLY:H	2.23	0.45
1:C1:109:G:H2'	1:C1:109:G:N3	2.31	0.45
1:C1:149:C:H2'	1:C1:150:U:C6	2.51	0.45
1:C1:228:G:C4	1:C1:229:U:C5	3.05	0.45
1:C1:340:U:O2	1:C1:340:U:H2'	2.14	0.45
1:C1:425:A:H2'	1:C1:426:G:OP2	2.16	0.45
1:C1:450:U:N3	1:C1:451:A:N6	2.64	0.45
1:C1:551:G:C2	1:C1:552:G:N7	2.84	0.45
1:C1:647:G:N1	1:C1:687:G:C6	2.84	0.45
1:C1:651:G:C4	1:C1:684:A:N6	2.85	0.45
1:C1:743:U:O4	1:C1:809:A:C6	2.69	0.45
1:C1:814:A:N6	1:C1:858:G:N3	2.64	0.45
1:C1:901:G:C6	1:C1:902:G:C2	3.05	0.45
1:C1:922:G:O2'	1:C1:923:A:C8	2.62	0.45
1:C1:1236:A:C4	1:C1:1237:G:C8	3.05	0.45
1:C1:1239:U:C5	1:C1:1241:G:O6	2.70	0.45
1:C1:1252:C:O2'	1:C1:1253:U:H5'	2.17	0.45
1:C1:1257:U:O2'	1:C1:1258:U:C5'	2.65	0.45
1:C1:1270:G:C2	1:C1:1271:G:C8	3.05	0.45
1:C1:1297:G:C2	1:C1:1301:U:N3	2.84	0.45
1:C1:1326:A:HO2'	1:C1:1327:C:H5'	1.81	0.45
1:C1:1360:A:H2'	1:C1:1360:A:N3	2.31	0.45
1:C1:1364:G:C6	1:C1:1365:C:C4	3.04	0.45
1:C1:1455:G:C5	1:C1:1456:C:N4	2.85	0.45
1:C1:1477:G:H2'	1:C1:1478:G:C5'	2.44	0.45
1:C1:1483:A:C4	1:C1:1524:A:N6	2.85	0.45
1:C1:1689:A:C6	1:C1:1716:C:C2	3.05	0.45
1:C1:1753:A:C6	1:C1:1754:A:N1	2.84	0.45
1:C1:1783:C:C4	1:C1:1784:C:N4	2.84	0.45
3:CB:203:LYS:O	3:CB:204:THR:C	2.59	0.45
5:CD:175:LEU:O	5:CD:176:THR:C	2.60	0.45
13:CL:76:PRO:HA	13:CL:81:ILE:N	2.30	0.45
17:CP:69:ARG:O	17:CP:70:LYS:C	2.58	0.45
19:CR:26:THR:HA	19:CR:38:ARG:HA	1.98	0.45
21:CT:307:ASP:C	21:CT:309:VAL:H	2.23	0.45
29:D1:60:A:N1	29:D1:328:U:O2	2.50	0.45
29:D1:210:U:OP2	29:D1:210:U:C5	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:291:C:O2'	29:D1:2599:U:H1'	2.17	0.45
29:D1:559:A:N9	29:D1:560:G:N7	2.64	0.45
29:D1:563:U:C3'	29:D1:564:G:C4'	2.90	0.45
29:D1:628:A:H5"	29:D1:1399:A:N7	2.31	0.45
29:D1:924:G:N7	29:D1:2809:C:H1'	2.32	0.45
29:D1:995:U:C4	29:D1:2637:A:C5	3.04	0.45
29:D1:1004:U:C2	29:D1:1005:G:C8	3.05	0.45
29:D1:1167:U:O2'	29:D1:1168:U:O5'	2.34	0.45
29:D1:1282:G:H4'	73:DM:82:GLY:C	2.42	0.45
29:D1:1394:A:N7	29:D1:1395:G:N7	2.64	0.45
29:D1:1399:A:N6	31:D3:7:U:O2'	2.50	0.45
29:D1:1787:A:C3'	29:D1:1788:C:H5"	2.45	0.45
29:D1:1792:C:O2	29:D1:1794:G:O2'	2.32	0.45
29:D1:1878:G:H5'	29:D1:1879:A:H5'	1.99	0.45
29:D1:1921:A:C4	29:D1:1932:A:C6	3.04	0.45
29:D1:1940:G:P	48:DS:75:HIS:HA	2.56	0.45
29:D1:2095:G:H2'	29:D1:2096:A:H8	1.81	0.45
29:D1:2114:C:H5"	29:D1:2116:G:N7	2.32	0.45
29:D1:2150:G:OP2	29:D1:2150:G:H8	1.99	0.45
29:D1:2198:A:C4	29:D1:2199:G:C8	3.04	0.45
29:D1:2218:G:C2	29:D1:2228:A:N3	2.85	0.45
29:D1:2252:A:N1	29:D1:2253:G:C6	2.85	0.45
29:D1:2441:A:C6	29:D1:2507:C:C2	3.04	0.45
29:D1:2643:A:OP1	29:D1:2643:A:H4'	2.16	0.45
29:D1:2743:A:N6	29:D1:2751:G:O6	2.49	0.45
29:D1:2783:U:H2'	29:D1:2784:G:O5'	2.16	0.45
29:D1:2882:U:C4	29:D1:2883:U:C4	3.05	0.45
29:D1:3244:A:O2'	29:D1:3245:A:P	2.75	0.45
29:D1:3305:A:N9	29:D1:3306:U:O2	2.50	0.45
29:D1:3333:G:H1	29:D1:3370:A:HO2'	1.61	0.45
29:D1:3356:G:H2'	29:D1:3357:U:O4'	2.17	0.45
30:D2:112:G:OP1	74:D2:207:OHX:N2	2.49	0.45
30:D2:118:A:H2'	30:D2:119:U:O4'	2.17	0.45
31:D3:48:A:N1	31:D3:51:G:C6	2.84	0.45
37:DF:3:ALA:O	37:DF:4:GLN:O	2.34	0.45
37:DF:134:ARG:HA	37:DF:137:ASP:CB	2.46	0.45
38:DG:103:LEU:O	38:DG:107:ARG:N	2.50	0.45
39:DH:185:ARG:C	39:DH:187:GLY:N	2.71	0.45
40:DI:187:ILE:HA	40:DI:188:THR:HA	1.47	0.45
73:DM:46:ARG:C	73:DM:49:ALA:HB2	2.42	0.45
44:DO:86:ASN:C	44:DO:88:GLY:N	2.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DQ:73:GLY:C	46:DQ:75:GLU:O	2.60	0.45
46:DQ:128:ARG:CA	46:DQ:139:TYR:H	2.30	0.45
49:DT:58:GLN:C	49:DT:60:LYS:H	2.24	0.45
51:DV:45:ASN:O	51:DV:47:ARG:CB	2.65	0.45
52:DW:56:ARG:HA	52:DW:57:LEU:HA	1.52	0.45
53:DX:75:ARG:C	53:DX:77:LYS:N	2.75	0.45
57:Db:103:LYS:C	57:Db:105:ARG:N	2.74	0.45
59:Dd:37:CYS:CA	74:Dd:101:OHX:N5	2.80	0.45
62:Dg:86:LEU:C	62:Dg:88:GLU:N	2.75	0.45
1:A1:93:A:C2	1:A1:399:A:N1	2.84	0.45
1:A1:119:A:O4'	1:A1:397:A:C1'	2.64	0.45
1:A1:123:G:O6	1:A1:295:A:N6	2.50	0.45
1:A1:205:U:O4	1:A1:206:A:N6	2.50	0.45
1:A1:290:G:C2'	1:A1:291:G:C8	2.99	0.45
1:A1:308:C:H5'	1:A1:308:C:C6	2.51	0.45
1:A1:310:C:C6	1:A1:310:C:C4'	2.99	0.45
1:A1:357:G:C4	1:A1:358:U:C6	3.04	0.45
1:A1:472:U:C6	1:A1:473:A:C8	3.04	0.45
1:A1:589:C:H2'	1:A1:590:C:H6	1.81	0.45
1:A1:649:U:C2	1:A1:650:U:C6	3.05	0.45
1:A1:703:G:N2	1:A1:735:C:C2	2.84	0.45
1:A1:735:C:O2	1:A1:735:C:O4'	2.33	0.45
1:A1:763:G:C4	1:A1:764:U:C5	3.05	0.45
1:A1:838:G:C6	1:A1:839:U:N3	2.85	0.45
1:A1:897:C:OP2	1:A1:897:C:H6	2.00	0.45
1:A1:937:C:H2'	1:A1:938:G:O4'	2.17	0.45
1:A1:939:A:H5"	1:A1:940:A:OP2	2.17	0.45
1:A1:1002:G:C4	1:A1:1003:A:C2	3.05	0.45
1:A1:1043:A:C6	1:A1:1044:U:O4	2.70	0.45
1:A1:1109:G:C3'	1:A1:1110:G:C5'	2.95	0.45
1:A1:1167:G:N1	1:A1:1168:U:C4	2.85	0.45
1:A1:1206:U:O4	1:A1:1455:G:O6	2.34	0.45
1:A1:1231:U:H5"	1:A1:1232:U:C5	2.52	0.45
1:A1:1237:G:N3	1:A1:1238:A:C8	2.85	0.45
1:A1:1250:U:H2'	1:A1:1251:U:O4'	2.16	0.45
1:A1:1270:G:C2	1:A1:1271:G:C8	3.05	0.45
1:A1:1402:G:C4	1:A1:1403:C:C6	3.04	0.45
1:A1:1483:A:C4	1:A1:1524:A:C5	3.05	0.45
1:A1:1557:U:H5	10:AI:81:ARG:O	2.00	0.45
1:A1:1592:A:C5	1:A1:1605:G:C2	3.05	0.45
1:A1:1623:C:C2	1:A1:1624:C:C6	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1645:G:H3'	1:A1:1645:G:H8	1.82	0.45
1:A1:1686:C:C4	1:A1:1687:U:C4	3.05	0.45
1:A1:1693:A:N1	1:A1:1708:U:N3	2.65	0.45
1:A1:1720:G:N7	1:A1:1721:A:C5	2.85	0.45
1:A1:1793:G:N2	1:A1:1794:A:H1'	2.31	0.45
2:AA:10:THR:C	2:AA:14:ALA:O	2.60	0.45
2:AA:62:ARG:HA	2:AA:65:ALA:HB2	1.98	0.45
2:AA:132:ALA:O	2:AA:133:ILE:C	2.60	0.45
6:AE:99:LEU:O	6:AE:102:GLU:N	2.50	0.45
7:AF:75:VAL:CA	7:AF:86:ILE:HA	2.41	0.45
11:AJ:93:HIS:HA	11:AJ:96:TYR:O	2.16	0.45
13:AL:29:VAL:O	13:AL:43:SER:CB	2.65	0.45
15:AN:52:LYS:C	15:AN:54:GLY:H	2.25	0.45
20:AS:38:ILE:C	20:AS:40:ARG:H	2.24	0.45
24:Ac:1:UNK:N	24:Ac:73:UNK:O	2.50	0.45
29:B1:29:C:H3'	29:B1:29:C:H6	1.81	0.45
29:B1:39:A:H2	29:B1:44:U:O4	1.99	0.45
29:B1:69:C:H5"	29:B1:70:A:OP2	2.17	0.45
29:B1:144:A:N3	29:B1:145:G:H1'	2.32	0.45
29:B1:319:A:H1'	44:BO:50:ARG:O	2.16	0.45
29:B1:404:G:H2'	29:B1:405:U:H5'	1.98	0.45
29:B1:516:A:H2	29:B1:574:U:O2	2.00	0.45
29:B1:571:U:C2	29:B1:572:A:C8	3.05	0.45
29:B1:656:A:C2	29:B1:1440:G:C2	3.05	0.45
29:B1:658:G:N2	29:B1:1438:U:C2	2.85	0.45
29:B1:682:U:C5	29:B1:683:U:H5	2.32	0.45
29:B1:709:A:N6	29:B1:710:A:C6	2.85	0.45
29:B1:901:G:C2	29:B1:902:G:C8	3.05	0.45
29:B1:963:G:H8	29:B1:963:G:C4'	2.28	0.45
29:B1:1053:A:H2'	29:B1:1053:A:N3	2.32	0.45
29:B1:1112:A:N6	29:B1:1113:G:C6	2.85	0.45
29:B1:1220:U:H5'	29:B1:1223:A:C4'	2.46	0.45
29:B1:1254:C:C2	29:B1:1255:C:H5	2.32	0.45
29:B1:1270:A:H3'	29:B1:1271:A:O4'	2.17	0.45
29:B1:1302:A:C2'	29:B1:1303:A:O5'	2.65	0.45
29:B1:1324:U:H5"	29:B1:1324:U:H6	1.78	0.45
29:B1:1412:G:C2'	29:B1:1413:G:H8	2.29	0.45
29:B1:1550:C:C1'	29:B1:2166:A:H61	2.29	0.45
29:B1:1624:G:C2	29:B1:1625:A:N3	2.85	0.45
29:B1:1795:U:O4	62:Bg:51:ALA:HB2	2.16	0.45
29:B1:2107:A:C4	29:B1:2108:C:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2385:G:C6	29:B1:3142:A:N1	2.85	0.45
29:B1:2386:A:N3	31:B3:3:A:H2	2.15	0.45
29:B1:2582:C:C5'	29:B1:2583:C:OP2	2.61	0.45
29:B1:2593:A:H4'	29:B1:2594:C:OP2	2.16	0.45
29:B1:2775:U:HO2'	29:B1:2776:C:P	2.29	0.45
29:B1:3000:A:C6	29:B1:3001:C:N4	2.84	0.45
29:B1:3056:U:OP1	74:B1:3460:OHX:N3	2.49	0.45
29:B1:3087:A:C2	29:B1:3088:G:C4	3.04	0.45
29:B1:3115:C:HO2'	29:B1:3117:C:H5	1.62	0.45
29:B1:3147:G:H2'	29:B1:3148:U:C5'	2.47	0.45
29:B1:3273:A:OP1	29:B1:3273:A:C4'	2.64	0.45
29:B1:3288:G:H2'	29:B1:3289:G:H5'	1.99	0.45
29:B1:3298:C:C2	29:B1:3391:A:C2	3.04	0.45
29:B1:3330:A:C6	29:B1:3331:U:C4	3.05	0.45
29:B1:3384:U:N3	29:B1:3385:U:C4	2.84	0.45
30:B2:9:C:C3'	30:B2:10:C:H4'	2.46	0.45
30:B2:37:G:H2'	30:B2:38:U:O5'	2.17	0.45
31:B3:117:C:C2	31:B3:118:C:C6	3.04	0.45
31:B3:136:G:C2	31:B3:137:C:C5	3.05	0.45
35:BD:31:ARG:O	35:BD:32:PRO:C	2.59	0.45
37:BF:134:ARG:HA	37:BF:137:ASP:CB	2.47	0.45
38:BG:242:SER:O	38:BG:243:MET:CB	2.64	0.45
39:BH:100:GLU:CB	39:BH:103:ALA:HB3	2.47	0.45
39:BH:228:GLU:C	39:BH:230:LYS:N	2.74	0.45
45:BP:80:PHE:O	45:BP:81:TYR:C	2.58	0.45
46:BQ:10:ASN:N	46:BQ:12:ALA:N	2.65	0.45
52:BW:98:ALA:O	52:BW:101:GLU:N	2.49	0.45
53:BX:19:TYR:C	53:BX:21:THR:N	2.68	0.45
53:BX:34:PRO:HA	53:BX:47:ALA:CB	2.46	0.45
61:Bf:23:HIS:HA	61:Bf:74:CYS:HA	1.98	0.45
62:Bg:65:ALA:O	62:Bg:66:GLY:C	2.59	0.45
65:Bk:6:UNK:O	65:Bk:8:UNK:N	2.49	0.45
1:C1:29:U:C2	1:C1:597:G:O6	2.68	0.45
1:C1:70:C:H3'	1:C1:71:A:H8	1.81	0.45
1:C1:170:U:C5'	1:C1:267:U:O2'	2.65	0.45
1:C1:172:C:C2	1:C1:173:A:C8	3.05	0.45
1:C1:174:U:N3	1:C1:175:G:C4	2.84	0.45
1:C1:192:U:H3'	1:C1:192:U:C6	2.52	0.45
1:C1:266:A:C3'	1:C1:267:U:O4'	2.65	0.45
1:C1:297:U:H2'	1:C1:298:C:H5'	1.99	0.45
1:C1:346:G:C6	1:C1:347:G:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:409:C:O4'	1:C1:1732:A:H4'	2.15	0.45
1:C1:435:C:H2'	1:C1:436:A:O4'	2.17	0.45
1:C1:479:C:H5"	1:C1:480:G:P	2.57	0.45
1:C1:515:A:OP1	74:C1:1933:OHX:N6	2.50	0.45
1:C1:556:A:OP1	1:C1:556:A:O4'	2.35	0.45
1:C1:699:U:O2'	1:C1:700:C:H5'	2.16	0.45
1:C1:726:C:C4	1:C1:727:U:C4	3.04	0.45
1:C1:745:U:C2'	1:C1:746:A:H5'	2.47	0.45
1:C1:834:G:H2'	1:C1:835:U:O4'	2.17	0.45
1:C1:956:C:C4	1:C1:957:G:N7	2.85	0.45
1:C1:1006:C:OP1	74:C1:1907:OHX:N4	2.50	0.45
1:C1:1104:U:C5	1:C1:1105:C:C6	3.05	0.45
1:C1:1150:G:H2'	1:C1:1151:A:O4'	2.16	0.45
1:C1:1334:U:H2'	1:C1:1335:U:H1'	1.99	0.45
1:C1:1494:C:H2'	1:C1:1495:C:O5'	2.17	0.45
1:C1:1535:U:OP1	1:C1:1536:G:C5	2.69	0.45
1:C1:1666:U:C4	1:C1:1736:G:C2	3.05	0.45
1:C1:1691:A:N6	1:C1:1713:G:C4	2.85	0.45
5:CD:91:GLU:O	5:CD:93:LEU:N	2.50	0.45
8:CG:114:ARG:O	8:CG:117:LEU:N	2.49	0.45
11:CJ:92:TYR:N	11:CJ:93:HIS:HA	2.31	0.45
11:CJ:106:LYS:O	11:CJ:109:PHE:N	2.50	0.45
18:CQ:59:TYR:O	18:CQ:91:PRO:HA	2.16	0.45
23:Cb:62:UNK:C	23:Cb:64:UNK:N	2.78	0.45
29:D1:112:U:HO2'	29:D1:113:C:P	2.38	0.45
29:D1:299:G:C6	29:D1:300:G:C6	3.04	0.45
29:D1:327:A:H8	29:D1:327:A:H5'	1.81	0.45
29:D1:354:U:OP2	29:D1:364:G:C6	2.70	0.45
29:D1:504:A:C2	29:D1:505:G:C2	3.04	0.45
29:D1:585:A:H2'	29:D1:585:A:N3	2.31	0.45
29:D1:585:A:C2'	29:D1:586:C:H6	2.15	0.45
29:D1:592:A:H3'	29:D1:592:A:OP2	2.17	0.45
29:D1:617:G:C2'	29:D1:618:C:O5'	2.65	0.45
29:D1:655:C:C2	29:D1:656:A:C8	3.04	0.45
29:D1:692:A:H3'	29:D1:693:A:H8	1.81	0.45
29:D1:739:G:C3'	29:D1:740:G:H8	2.30	0.45
29:D1:827:A:C5'	29:D1:828:A:OP2	2.65	0.45
29:D1:886:C:H2'	29:D1:887:G:H5'	1.96	0.45
29:D1:943:U:C6	29:D1:1432:C:C5	3.04	0.45
29:D1:944:C:OP2	29:D1:1432:C:H4'	2.17	0.45
29:D1:965:A:N6	29:D1:966:U:H3	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1024:G:C2'	29:D1:1025:A:H5'	2.44	0.45
29:D1:1057:A:C6	29:D1:1058:U:C4	3.04	0.45
29:D1:1086:C:O2	29:D1:1086:C:H2'	2.15	0.45
29:D1:1126:G:OP2	41:DJ:13:LYS:O	2.35	0.45
29:D1:1132:C:C2'	29:D1:1133:A:O5'	2.64	0.45
29:D1:1174:G:C4	29:D1:1175:C:C5	3.04	0.45
29:D1:1189:C:N4	29:D1:1316:C:OP2	2.46	0.45
29:D1:1206:G:N3	29:D1:1206:G:C2'	2.79	0.45
29:D1:1359:C:O2	29:D1:1359:C:C2'	2.64	0.45
29:D1:1376:C:C2	29:D1:1377:G:C8	3.05	0.45
29:D1:1455:U:C2	29:D1:3078:U:H5	2.35	0.45
29:D1:1468:A:O2'	29:D1:1469:C:OP1	2.33	0.45
29:D1:1530:U:C5'	29:D1:1531:C:OP2	2.65	0.45
29:D1:1690:C:C4	29:D1:1691:U:C5	3.05	0.45
29:D1:2246:G:C4	29:D1:2247:G:C8	3.05	0.45
29:D1:2300:G:C2	29:D1:2301:U:C2	3.04	0.45
29:D1:2516:U:H6	29:D1:2516:U:O5'	2.00	0.45
29:D1:2526:C:H3'	29:D1:2527:G:C8	2.52	0.45
29:D1:2618:G:H4'	29:D1:2619:G:OP2	2.17	0.45
29:D1:2807:U:C2'	29:D1:2808:A:H5"	2.47	0.45
29:D1:2827:U:H2'	29:D1:2827:U:O2	2.16	0.45
29:D1:2912:G:C1'	29:D1:3131:U:H5'	2.47	0.45
29:D1:2933:A:O3'	74:D1:3619:OHX:N4	2.50	0.45
29:D1:3021:A:C8	29:D1:3023:U:N3	2.85	0.45
29:D1:3293:U:H3'	29:D1:3293:U:O2	2.16	0.45
29:D1:3343:G:N7	29:D1:3344:A:C6	2.84	0.45
29:D1:3348:G:C5	29:D1:3349:C:C2	3.05	0.45
30:D2:59:U:H2'	30:D2:60:G:H8	1.78	0.45
31:D3:41:A:H2'	31:D3:41:A:N3	2.32	0.45
34:DC:68:HIS:O	34:DC:70:ARG:N	2.50	0.45
34:DC:310:GLY:O	34:DC:311:PHE:C	2.60	0.45
35:DD:123:ALA:O	35:DD:124:SER:C	2.59	0.45
36:DE:80:SER:C	36:DE:82:GLU:H	2.24	0.45
36:DE:102:GLY:C	36:DE:166:ALA:HA	2.41	0.45
37:DF:5:LYS:CB	38:DG:77:VAL:N	2.79	0.45
37:DF:126:GLN:C	37:DF:128:LYS:H	2.21	0.45
38:DG:41:ARG:O	38:DG:45:LEU:N	2.49	0.45
38:DG:84:VAL:C	38:DG:86:VAL:N	2.65	0.45
39:DH:81:THR:O	39:DH:84:ARG:N	2.49	0.45
72:DL:89:PRO:O	72:DL:90:ARG:O	2.35	0.45
43:DN:76:ALA:HA	43:DN:79:ALA:CB	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DQ:83:TRP:O	46:DQ:84:PRO:C	2.59	0.45
47:DR:80:THR:N	47:DR:136:ASN:O	2.45	0.45
47:DR:145:ASN:CB	47:DR:147:ARG:H	2.29	0.45
48:DS:141:HIS:O	48:DS:142:ILE:C	2.60	0.45
51:DV:7:SER:C	51:DV:9:SER:N	2.74	0.45
63:Dh:42:UNK:O	63:Dh:43:UNK:C	2.65	0.45
1:A1:14:C:H5'	3:AB:163:GLY:HA2	1.98	0.45
1:A1:36:C:C2	1:A1:473:A:C2	3.05	0.45
1:A1:43:A:H4'	1:A1:99:C:OP1	2.16	0.45
1:A1:63:G:O2'	1:A1:169:A:O3'	2.35	0.45
1:A1:117:U:H2'	1:A1:118:U:O4'	2.16	0.45
1:A1:174:U:O2	1:A1:174:U:C2'	2.58	0.45
1:A1:198:A:C1'	1:A1:199:G:P	3.05	0.45
1:A1:220:A:N6	1:A1:221:A:N6	2.64	0.45
1:A1:271:A:C2	1:A1:285:G:C5	3.05	0.45
1:A1:430:G:C5	1:A1:431:C:C5	3.04	0.45
1:A1:457:G:H2'	1:A1:458:G:H5'	1.96	0.45
1:A1:515:A:N3	1:A1:515:A:C2'	2.80	0.45
1:A1:578:U:H6	1:A1:578:U:H5"	1.82	0.45
1:A1:586:G:H2'	1:A1:587:C:O5'	2.17	0.45
1:A1:589:C:H2'	1:A1:590:C:C6	2.51	0.45
1:A1:604:A:N1	1:A1:605:A:C2	2.85	0.45
1:A1:635:A:C5	1:A1:863:A:C8	3.05	0.45
1:A1:637:C:O2'	1:A1:638:U:H5'	2.17	0.45
1:A1:802:G:H21	16:AO:107:SER:CB	2.29	0.45
1:A1:986:G:O6	74:A1:1905:OHX:N2	2.50	0.45
1:A1:1044:U:O2	1:A1:1045:C:H5	1.98	0.45
1:A1:1092:A:C8	1:A1:1094:G:C8	3.05	0.45
1:A1:1146:G:C8	1:A1:1635:A:H2	2.31	0.45
1:A1:1172:G:C5	1:A1:1173:C:C5	3.05	0.45
1:A1:1203:A:N3	1:A1:1555:A:C2	2.85	0.45
1:A1:1304:G:N7	1:A1:1305:U:C4	2.85	0.45
1:A1:1382:A:C4	1:A1:1383:G:C8	3.04	0.45
1:A1:1403:C:OP1	1:A1:1414:U:OP1	2.35	0.45
1:A1:1449:U:H2'	1:A1:1450:U:O4'	2.17	0.45
1:A1:1489:U:H5"	1:A1:1490:C:OP2	2.17	0.45
1:A1:1525:A:H1'	1:A1:1590:G:H4'	1.98	0.45
1:A1:1543:A:H1'	1:A1:1569:A:N1	2.32	0.45
1:A1:1583:A:H1'	1:A1:1585:U:C2	2.52	0.45
1:A1:1644:C:H2'	1:A1:1645:G:O5'	2.17	0.45
3:AB:66:PHE:C	3:AB:68:ILE:N	2.71	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:59:LEU:C	6:AE:61:THR:H	2.24	0.45
11:AJ:127:LYS:CA	11:AJ:134:ALA:H	2.27	0.45
11:AJ:131:GLY:HA3	11:AJ:138:PHE:N	2.31	0.45
16:AO:55:ASP:C	23:Ab:1:UNK:CB	2.90	0.45
21:AT:240:VAL:O	21:AT:241:PHE:O	2.34	0.45
23:Ab:52:UNK:C	23:Ab:54:UNK:N	2.76	0.45
23:Ab:135:UNK:O	23:Ab:136:UNK:C	2.65	0.45
28:Ah:9:UNK:O	28:Ah:11:UNK:N	2.50	0.45
29:B1:19:U:C5	29:B1:20:A:N6	2.76	0.45
29:B1:72:C:N4	29:B1:73:C:O2	2.50	0.45
29:B1:152:U:H2'	29:B1:153:U:C6	2.39	0.45
29:B1:191:U:O2	29:B1:191:U:H2'	2.17	0.45
29:B1:222:A:C2'	29:B1:223:U:H5'	2.46	0.45
29:B1:293:C:C4	29:B1:294:U:C2	3.05	0.45
29:B1:295:A:O2'	29:B1:296:A:H5'	2.17	0.45
29:B1:307:A:H1'	29:B1:2223:A:N3	2.31	0.45
29:B1:311:C:C2	29:B1:2779:A:N1	2.85	0.45
29:B1:412:G:C5	31:B3:12:A:N1	2.85	0.45
29:B1:505:G:C8	29:B1:506:U:C6	3.05	0.45
29:B1:694:C:O2	29:B1:694:C:C2'	2.52	0.45
29:B1:740:G:C2	29:B1:741:U:H6	2.35	0.45
29:B1:763:G:C5	29:B1:764:U:C2	3.05	0.45
29:B1:871:U:C2	29:B1:890:C:H1'	2.52	0.45
29:B1:914:A:O5'	29:B1:914:A:C8	2.69	0.45
29:B1:924:G:O6	29:B1:2809:C:O4'	2.35	0.45
29:B1:959:C:OP1	29:B1:2800:G:OP2	2.35	0.45
29:B1:986:U:H2'	29:B1:987:U:H6	1.81	0.45
29:B1:1028:U:H2'	29:B1:1029:G:C5	2.52	0.45
29:B1:1105:A:C5	29:B1:1106:G:N7	2.85	0.45
29:B1:1174:G:N1	29:B1:1175:C:C4	2.85	0.45
29:B1:1220:U:O4'	29:B1:1223:A:N3	2.50	0.45
29:B1:1220:U:H5'	29:B1:1223:A:O4'	2.17	0.45
29:B1:1379:G:C6	29:B1:1428:A:C2	3.04	0.45
29:B1:1444:G:O6	74:B1:3540:OHX:N1	2.50	0.45
29:B1:1505:C:H2'	29:B1:1505:C:O2	2.17	0.45
29:B1:1609:C:HO2'	29:B1:1610:G:P	2.40	0.45
29:B1:1634:G:C5	29:B1:1635:G:N7	2.84	0.45
29:B1:1719:G:C4'	29:B1:1732:U:H4'	2.47	0.45
29:B1:1731:A:H2'	29:B1:1732:U:O4'	2.16	0.45
29:B1:1941:C:N4	29:B1:1942:U:O4	2.49	0.45
29:B1:2255:A:C6	74:B1:3438:OHX:N5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2352:A:N6	29:B1:2353:G:C6	2.84	0.45
29:B1:2414:G:O2'	29:B1:2415:C:P	2.74	0.45
29:B1:2520:A:C5	29:B1:2521:U:C4	3.05	0.45
29:B1:2553:U:O2'	29:B1:2554:A:P	2.74	0.45
29:B1:2607:G:C6	29:B1:2608:G:N7	2.85	0.45
29:B1:2727:A:C2	29:B1:2729:U:C5	2.93	0.45
29:B1:3059:G:O4'	29:B1:3059:G:OP2	2.35	0.45
29:B1:3068:U:OP1	48:BS:57:VAL:O	2.35	0.45
29:B1:3205:G:O2'	29:B1:3206:C:C4	2.55	0.45
29:B1:3212:C:C4	29:B1:3213:A:N1	2.85	0.45
29:B1:3308:C:H5	29:B1:3309:G:C4	2.27	0.45
29:B1:3322:A:C6	29:B1:3323:A:C6	3.04	0.45
29:B1:3390:G:C5	29:B1:3391:A:N7	2.85	0.45
30:B2:46:A:C2'	30:B2:47:C:H5'	2.47	0.45
30:B2:75:G:C5'	30:B2:76:A:OP2	2.65	0.45
31:B3:41:A:OP2	59:Bd:58:THR:CB	2.65	0.45
31:B3:67:U:O3'	31:B3:68:G:O4'	2.33	0.45
31:B3:107:G:N1	31:B3:116:G:N7	2.65	0.45
31:B3:149:A:N7	74:B3:212:OHX:N1	2.65	0.45
35:BD:265:GLU:O	35:BD:266:THR:CB	2.65	0.45
41:BJ:56:GLU:N	41:BJ:131:ILE:HA	2.32	0.45
41:BJ:148:VAL:O	41:BJ:149:VAL:C	2.59	0.45
42:BK:101:ASN:C	42:BK:103:GLY:H	2.25	0.45
43:BN:38:ILE:HA	43:BN:44:VAL:HA	1.99	0.45
43:BN:107:GLU:O	43:BN:108:ARG:C	2.59	0.45
52:BW:98:ALA:O	52:BW:99:VAL:C	2.60	0.45
58:Bc:40:SER:CB	58:Bc:41:LEU:C	2.90	0.45
26:Bj:10:UNK:O	26:Bj:11:UNK:C	2.65	0.45
1:C1:39:A:N7	1:C1:467:G:N1	2.60	0.45
1:C1:139:C:C5	1:C1:176:C:N3	2.85	0.45
1:C1:228:G:N1	1:C1:229:U:C2	2.84	0.45
1:C1:361:C:C4	1:C1:384:G:N1	2.85	0.45
1:C1:446:A:H2'	1:C1:447:U:H5'	1.98	0.45
1:C1:651:G:C5	74:C1:1970:OHX:N5	2.85	0.45
1:C1:812:A:C5	1:C1:858:G:N7	2.84	0.45
1:C1:867:G:N3	1:C1:868:G:C8	2.84	0.45
1:C1:1155:G:C6	1:C1:1156:C:N4	2.85	0.45
1:C1:1225:U:C5	1:C1:1226:A:C6	3.05	0.45
1:C1:1274:C:O2	1:C1:1274:C:C2'	2.53	0.45
1:C1:1319:A:H2'	1:C1:1320:U:O4'	2.17	0.45
1:C1:1348:A:H8	1:C1:1348:A:P	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1470:C:H3'	1:C1:1573:A:H62	1.82	0.45
1:C1:1471:A:C5	1:C1:1540:G:O4'	2.70	0.45
1:C1:1472:C:H5'	1:C1:1474:G:C1'	2.46	0.45
1:C1:1529:C:H2'	1:C1:1530:C:C6	2.52	0.45
2:CA:199:PRO:HA	2:CA:200:ASP:HA	1.68	0.45
3:CB:124:ALA:O	3:CB:126:ARG:N	2.49	0.45
3:CB:149:GLY:C	3:CB:151:PRO:N	2.74	0.45
3:CB:231:ALA:HB1	3:CB:234:PRO:CB	2.46	0.45
5:CD:132:VAL:O	5:CD:136:ALA:N	2.50	0.45
7:CF:75:VAL:HA	7:CF:86:ILE:CA	2.44	0.45
9:CH:44:GLY:O	9:CH:45:GLY:C	2.59	0.45
14:CM:29:GLU:O	14:CM:30:VAL:C	2.60	0.45
14:CM:69:LYS:CB	14:CM:123:ARG:HA	2.47	0.45
18:CQ:43:ASP:HA	18:CQ:46:LYS:CB	2.46	0.45
24:Cc:5:UNK:C	24:Cc:71:UNK:CB	2.95	0.45
24:Cc:54:UNK:N	24:Cc:63:UNK:N	2.65	0.45
29:D1:64:G:C5	29:D1:322:U:C4	3.05	0.45
29:D1:83:U:H2'	29:D1:84:U:O4'	2.16	0.45
29:D1:111:C:O2	29:D1:111:C:C2'	2.58	0.45
29:D1:122:A:N3	29:D1:123:A:C8	2.85	0.45
29:D1:134:U:H6	29:D1:134:U:P	2.40	0.45
29:D1:264:G:H3'	29:D1:265:A:N7	2.31	0.45
29:D1:342:A:N7	29:D1:368:G:C6	2.85	0.45
29:D1:420:G:C2	29:D1:2384:A:H2'	2.52	0.45
29:D1:438:A:O2'	29:D1:494:G:C1'	2.64	0.45
29:D1:552:G:C6	29:D1:553:U:N3	2.85	0.45
29:D1:554:A:H2'	29:D1:555:U:H5"	1.98	0.45
29:D1:569:A:N1	29:D1:570:A:C4	2.85	0.45
29:D1:569:A:C4	29:D1:570:A:C8	3.04	0.45
29:D1:597:G:C2	29:D1:598:A:N9	2.85	0.45
29:D1:601:U:C2	29:D1:602:A:C8	3.04	0.45
29:D1:601:U:C4	29:D1:602:A:C8	3.04	0.45
29:D1:624:G:N2	29:D1:625:G:N9	2.65	0.45
29:D1:740:G:C2	29:D1:741:U:H6	2.34	0.45
29:D1:750:G:N1	29:D1:784:A:C1'	2.78	0.45
29:D1:760:G:O2'	29:D1:761:A:H8	1.97	0.45
29:D1:760:G:OP2	74:D1:3514:OHX:N2	2.50	0.45
29:D1:900:G:H2'	29:D1:901:G:H8	1.82	0.45
29:D1:956:U:H2'	29:D1:957:C:C6	2.51	0.45
29:D1:967:A:H2'	29:D1:967:A:N3	2.32	0.45
29:D1:1174:G:H1'	29:D1:1181:U:C4	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1325:U:C2	29:D1:1326:A:N7	2.85	0.45
29:D1:1489:A:OP2	29:D1:1838:G:N2	2.50	0.45
29:D1:1625:A:C5	29:D1:1626:U:C2	3.05	0.45
29:D1:1645:U:C2'	29:D1:1646:G:O5'	2.64	0.45
29:D1:1787:A:C6	29:D1:1788:C:C4	3.05	0.45
29:D1:1876:U:H5'	29:D1:1876:U:C6	2.52	0.45
29:D1:2092:A:OP2	29:D1:2093:A:C8	2.70	0.45
29:D1:2120:A:HO2'	29:D1:2121:G:C5'	2.16	0.45
29:D1:2199:G:C2	29:D1:2200:U:C6	3.05	0.45
29:D1:2206:G:H2'	29:D1:2206:G:N3	2.31	0.45
29:D1:2641:U:O2	29:D1:2641:U:H2'	2.16	0.45
29:D1:2732:G:C5	29:D1:2733:A:C5	3.05	0.45
29:D1:2733:A:C4	29:D1:2734:A:C8	3.05	0.45
29:D1:2862:U:C2'	29:D1:2863:G:H5'	2.46	0.45
29:D1:3012:A:H2'	29:D1:3013:U:C5'	2.22	0.45
29:D1:3086:A:C2'	29:D1:3087:A:H8	2.29	0.45
29:D1:3105:U:C2	29:D1:3129:A:C5	3.05	0.45
29:D1:3121:U:C2	29:D1:3122:A:C8	3.04	0.45
29:D1:3150:A:H5"	34:DC:134:SER:CA	2.42	0.45
29:D1:3229:G:H4'	29:D1:3230:G:OP1	2.15	0.45
29:D1:3316:A:H1'	29:D1:3317:U:OP2	2.17	0.45
29:D1:3325:G:C4	29:D1:3326:G:C8	3.04	0.45
29:D1:3326:G:N2	29:D1:3327:G:H1'	2.32	0.45
29:D1:3327:G:C5	29:D1:3328:G:C5	3.05	0.45
30:D2:40:C:C5'	30:D2:41:G:OP2	2.64	0.45
31:D3:1:A:OP1	74:D3:201:OHX:N4	2.50	0.45
31:D3:12:A:C2'	31:D3:13:A:H5'	2.45	0.45
31:D3:149:A:C6	31:D3:150:G:O6	2.70	0.45
36:DE:53:VAL:CB	36:DE:62:CYS:HA	2.47	0.45
36:DE:84:PRO:O	36:DE:85:ARG:C	2.59	0.45
42:DK:160:VAL:C	42:DK:162:TRP:H	2.24	0.45
44:DO:108:ARG:C	44:DO:110:ALA:H	2.24	0.45
44:DO:146:ALA:HB1	44:DO:149:ASN:CB	2.47	0.45
48:DS:39:ASN:C	48:DS:41:ILE:N	2.74	0.45
54:DY:130:VAL:C	54:DY:132:LYS:N	2.74	0.45
56:Da:13:THR:O	56:Da:14:ILE:O	2.35	0.45
62:Dg:12:GLY:O	62:Dg:15:GLY:CA	2.65	0.45
62:Dg:22:LEU:O	62:Dg:23:ARG:C	2.58	0.45
63:Dh:53:UNK:CA	63:Dh:54:UNK:CB	2.90	0.45
65:Dk:11:UNK:O	65:Dk:13:UNK:C	2.65	0.45
1:A1:24:U:C6	1:A1:24:U:C5'	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:57:G:C6	1:A1:91:G:C6	3.05	0.45
1:A1:139:C:O4'	1:A1:141:U:H5"	2.17	0.45
1:A1:198:A:H1'	1:A1:199:G:O5'	2.16	0.45
1:A1:283:U:C3'	1:A1:284:G:C5'	2.92	0.45
1:A1:728:U:H2'	1:A1:729:G:C8	2.50	0.45
1:A1:973:A:N3	1:A1:974:A:N7	2.65	0.45
1:A1:993:A:C4	1:A1:1012:U:O2	2.70	0.45
1:A1:1138:A:C6	1:A1:1139:A:N6	2.85	0.45
1:A1:1239:U:H5	1:A1:1241:G:C6	2.35	0.45
1:A1:1274:C:C5	1:A1:1427:A:N7	2.83	0.45
1:A1:1284:C:O2	1:A1:1286:U:N3	2.49	0.45
1:A1:1294:G:C6	74:A1:1952:OHX:N4	2.85	0.45
1:A1:1411:A:C5'	1:A1:1412:G:OP2	2.64	0.45
1:A1:1431:C:C2	1:A1:1437:U:O4	2.70	0.45
1:A1:1455:G:N3	1:A1:1456:C:O2	2.50	0.45
1:A1:1522:U:C6	1:A1:1522:U:OP1	2.69	0.45
1:A1:1523:G:H3'	1:A1:1524:A:H5"	1.99	0.45
1:A1:1540:G:C6	1:A1:1541:G:C5	3.05	0.45
1:A1:1631:A:C6	1:A1:1636:C:N4	2.81	0.45
1:A1:1689:A:C6	1:A1:1716:C:C2	3.05	0.45
2:AA:111:ILE:O	2:AA:112:THR:CB	2.65	0.45
2:AA:205:ARG:O	2:AA:206:ASP:C	2.60	0.45
3:AB:160:GLY:O	3:AB:209:ASN:HA	2.16	0.45
5:AD:163:SER:O	5:AD:164:PRO:C	2.60	0.45
5:AD:184:PHE:HA	5:AD:185:ARG:HA	1.72	0.45
6:AE:59:LEU:O	6:AE:61:THR:N	2.43	0.45
9:AH:49:LYS:O	9:AH:50:ALA:C	2.60	0.45
10:AI:125:PRO:O	10:AI:127:ARG:N	2.50	0.45
11:AJ:42:GLU:O	11:AJ:44:LEU:N	2.50	0.45
11:AJ:74:HIS:O	11:AJ:75:VAL:C	2.59	0.45
21:AT:216:LYS:O	21:AT:218:GLY:N	2.50	0.45
29:B1:36:C:H4'	29:B1:808:A:N1	2.32	0.45
29:B1:65:A:C4	29:B1:110:G:N7	2.85	0.45
29:B1:78:U:O4	29:B1:325:A:N1	2.49	0.45
29:B1:100:A:C2'	29:B1:101:G:C8	2.91	0.45
29:B1:156:G:H1'	29:B1:157:A:P	2.56	0.45
29:B1:209:A:O2'	35:BD:162:THR:CB	2.65	0.45
29:B1:344:A:H2'	29:B1:345:G:C5'	2.46	0.45
29:B1:348:A:H1'	29:B1:352:A:N3	2.32	0.45
29:B1:355:A:C2	29:B1:365:A:C6	3.05	0.45
29:B1:413:U:N3	29:B1:414:U:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:428:A:C8	29:B1:428:A:C3'	3.00	0.45
29:B1:597:G:C2'	29:B1:598:A:O4'	2.65	0.45
29:B1:633:C:O2'	29:B1:634:C:H5'	2.16	0.45
29:B1:784:A:H2'	29:B1:784:A:N3	2.31	0.45
29:B1:876:A:H2'	29:B1:877:C:C5'	2.45	0.45
29:B1:960:U:H5"	29:B1:961:C:OP2	2.17	0.45
29:B1:962:A:C2'	29:B1:963:G:H5"	2.47	0.45
29:B1:975:C:N3	29:B1:976:U:C4	2.85	0.45
29:B1:1013:G:O3'	29:B1:1014:U:H4'	2.11	0.45
29:B1:1021:G:C5	29:B1:1022:U:C5	3.04	0.45
29:B1:1193:A:H8	29:B1:1194:G:N2	2.14	0.45
29:B1:1296:C:HO2'	29:B1:1297:C:P	2.40	0.45
29:B1:1302:A:N9	29:B1:2887:A:C2	2.85	0.45
29:B1:1316:C:H5'	29:B1:1317:A:C5'	2.47	0.45
29:B1:1455:U:C2	29:B1:3078:U:C6	3.05	0.45
29:B1:1481:A:O2'	29:B1:1858:A:C2'	2.56	0.45
29:B1:1566:A:N7	29:B1:1568:U:N3	2.65	0.45
29:B1:1622:U:H2'	29:B1:1623:G:C8	2.52	0.45
29:B1:1631:C:H2'	29:B1:1632:A:OP2	2.17	0.45
29:B1:1640:G:C4'	29:B1:1641:U:OP2	2.65	0.45
29:B1:1724:U:O2'	29:B1:1725:C:C4'	2.62	0.45
29:B1:1782:U:H3'	29:B1:1782:U:P	2.57	0.45
29:B1:1879:A:O2'	29:B1:1880:U:C4'	2.46	0.45
29:B1:2367:A:H2'	29:B1:2368:A:C8	2.52	0.45
29:B1:2397:A:OP1	29:B1:2398:A:H4'	2.17	0.45
29:B1:2407:C:C2	29:B1:2815:G:C2	3.04	0.45
29:B1:2504:U:C5	29:B1:2505:U:C5	3.05	0.45
29:B1:2673:A:N3	29:B1:2674:A:N7	2.65	0.45
29:B1:2674:A:C8	42:BK:108:GLU:CB	2.99	0.45
29:B1:2702:A:C8	29:B1:2704:A:C5	3.03	0.45
29:B1:2713:U:O5'	29:B1:2713:U:H6	2.00	0.45
29:B1:2872:A:O4'	29:B1:2873:U:OP1	2.35	0.45
29:B1:3289:G:N7	74:B1:3581:OHX:N1	2.65	0.45
29:B1:3360:C:O2	29:B1:3360:C:C2'	2.54	0.45
30:B2:22:A:H2'	30:B2:23:A:O5'	2.17	0.45
30:B2:48:U:C2'	30:B2:49:G:N7	2.80	0.45
30:B2:80:G:C4	30:B2:81:U:C6	3.04	0.45
31:B3:10:A:C2	31:B3:11:C:C6	3.05	0.45
31:B3:20:U:O2'	31:B3:21:C:O5'	2.33	0.45
31:B3:25:G:C5	31:B3:26:U:C4	3.05	0.45
31:B3:154:C:N3	31:B3:155:A:N7	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BA:68:PHE:HA	32:BA:73:ASP:CB	2.46	0.45
35:BD:118:LYS:C	35:BD:121:ALA:HB3	2.42	0.45
36:BE:47:PRO:O	36:BE:48:LYS:CB	2.64	0.45
36:BE:115:LEU:O	36:BE:118:THR:C	2.60	0.45
36:BE:269:SER:HA	36:BE:270:LYS:HA	1.73	0.45
37:BF:155:LEU:C	37:BF:157:GLN:N	2.75	0.45
39:BH:185:ARG:C	39:BH:187:GLY:N	2.63	0.45
40:BI:51:GLN:N	40:BI:52:LEU:CB	2.80	0.45
41:BJ:114:GLY:O	41:BJ:115:MET:CB	2.65	0.45
44:BO:59:PHE:O	44:BO:60:VAL:CB	2.65	0.45
47:BR:81:VAL:HA	47:BR:138:LEU:O	2.17	0.45
51:BV:14:TYR:O	51:BV:15:PRO:C	2.59	0.45
54:BY:90:TYR:C	54:BY:92:LYS:HA	2.42	0.45
59:Bd:37:CYS:CA	74:Bd:101:OHX:N6	2.80	0.45
63:Bh:34:UNK:O	63:Bh:35:UNK:CB	2.65	0.45
1:C1:5:U:O2'	1:C1:553:G:O3'	2.34	0.45
1:C1:28:A:H5"	1:C1:436:A:O2'	2.17	0.45
1:C1:92:A:P	1:C1:398:G:H22	2.39	0.45
1:C1:168:A:C3'	1:C1:169:A:C8	3.00	0.45
1:C1:380:U:O2'	1:C1:381:C:O5'	2.33	0.45
1:C1:402:C:H2'	1:C1:402:C:O2	2.16	0.45
1:C1:461:G:N1	1:C1:462:G:C5	2.85	0.45
1:C1:627:C:N4	1:C1:628:G:C6	2.84	0.45
1:C1:649:U:O2'	1:C1:650:U:P	2.75	0.45
1:C1:775:G:C2	1:C1:786:C:N3	2.85	0.45
1:C1:819:G:N1	1:C1:853:G:C2	2.84	0.45
1:C1:850:A:C2	1:C1:851:U:C2	3.05	0.45
1:C1:853:G:C6	1:C1:854:U:O4	2.70	0.45
1:C1:863:A:N9	1:C1:865:A:C8	2.85	0.45
1:C1:1097:U:C2'	1:C1:1098:U:C5'	2.89	0.45
1:C1:1106:U:C2'	1:C1:1107:G:H5'	2.47	0.45
1:C1:1369:U:HO2'	1:C1:1370:U:C1'	2.29	0.45
1:C1:1455:G:C5	1:C1:1456:C:C4	3.04	0.45
1:C1:1458:G:C2	1:C1:1459:C:C4	3.05	0.45
1:C1:1472:C:O2	1:C1:1472:C:H2'	2.16	0.45
1:C1:1481:C:H6	1:C1:1482:C:C2	2.34	0.45
1:C1:1481:C:O2'	1:C1:1482:C:C6	2.69	0.45
1:C1:1727:G:H2'	1:C1:1728:A:C8	2.52	0.45
1:C1:1728:A:C4	1:C1:1729:C:C6	3.04	0.45
2:CA:173:ILE:C	2:CA:175:TYR:H	2.25	0.45
4:CC:96:LEU:O	4:CC:98:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:128:GLU:C	4:CC:130:GLY:H	2.25	0.45
5:CD:174:LEU:O	5:CD:175:LEU:C	2.60	0.45
6:CE:61:THR:CB	6:CE:62:ARG:O	2.65	0.45
11:CJ:90:VAL:HA	11:CJ:97:VAL:CB	2.47	0.45
12:CK:10:LYS:HA	12:CK:13:SER:CB	2.46	0.45
14:CM:113:ILE:HA	14:CM:125:SER:CB	2.47	0.45
16:CO:53:ILE:N	16:CO:60:LYS:O	2.50	0.45
21:CT:92:TRP:HA	21:CT:100:TYR:CB	2.47	0.45
29:D1:70:A:C2'	29:D1:71:A:H5'	2.46	0.45
29:D1:187:A:H1'	29:D1:211:A:H61	1.72	0.45
29:D1:383:G:C5'	29:D1:385:A:OP2	2.65	0.45
29:D1:412:G:C4	29:D1:413:U:C5	3.05	0.45
29:D1:421:G:N2	29:D1:2365:C:N1	2.65	0.45
29:D1:506:U:H2'	29:D1:507:U:C6	2.52	0.45
29:D1:601:U:C2	29:D1:602:A:H8	2.34	0.45
29:D1:666:A:H2'	29:D1:667:C:O5'	2.17	0.45
29:D1:706:A:H2'	29:D1:707:U:H5'	1.99	0.45
29:D1:726:G:C2	29:D1:727:G:C5	3.04	0.45
29:D1:881:C:C2	29:D1:1850:A:H8	2.34	0.45
29:D1:900:G:N3	29:D1:1589:A:N6	2.65	0.45
29:D1:920:A:O5'	29:D1:922:U:O4	2.35	0.45
29:D1:986:U:N3	29:D1:987:U:C5	2.85	0.45
29:D1:993:G:C6	29:D1:2637:A:C5	3.05	0.45
29:D1:1028:U:H2'	29:D1:1029:G:C5	2.51	0.45
29:D1:1029:G:H2'	29:D1:1030:A:H5"	1.99	0.45
29:D1:1029:G:C3'	29:D1:1030:A:H5'	2.47	0.45
29:D1:1075:A:C8	29:D1:1076:C:C5	3.04	0.45
29:D1:1076:C:C5'	29:D1:1077:U:OP2	2.63	0.45
29:D1:1206:G:C2	29:D1:1207:G:N7	2.85	0.45
29:D1:1225:A:C5	29:D1:1226:G:C5	3.05	0.45
29:D1:1335:C:C4	29:D1:1336:U:C4	3.05	0.45
29:D1:1394:A:O2'	29:D1:1395:G:H5'	2.17	0.45
29:D1:1479:U:OP2	29:D1:1480:G:C2	2.70	0.45
29:D1:1517:G:C6	29:D1:1518:U:C4	3.05	0.45
29:D1:1550:C:O2'	29:D1:2166:A:N6	2.50	0.45
29:D1:1604:G:C6	29:D1:1605:A:C6	3.04	0.45
29:D1:1718:G:H2'	29:D1:1719:G:H5'	1.99	0.45
29:D1:1901:A:H3'	29:D1:1901:A:N3	2.32	0.45
29:D1:1909:A:C6	29:D1:1910:A:C4	3.05	0.45
29:D1:2173:U:C2'	29:D1:2174:G:OP1	2.64	0.45
29:D1:2191:U:C4	29:D1:2192:C:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2280:A:H8	29:D1:2280:A:H3'	1.81	0.45
29:D1:2400:G:O2'	29:D1:2401:A:C5'	2.65	0.45
29:D1:2403:G:C8	29:D1:2872:A:C5	3.05	0.45
29:D1:2590:A:C4	29:D1:2591:A:C8	3.04	0.45
29:D1:2673:A:C2	29:D1:2674:A:N7	2.85	0.45
29:D1:2680:A:C6	42:DK:56:THR:N	2.85	0.45
29:D1:2730:G:C6	29:D1:2799:A:N6	2.82	0.45
29:D1:2743:A:C5	29:D1:2744:U:C5	3.04	0.45
29:D1:2998:U:OP1	29:D1:3396:U:O2	2.34	0.45
29:D1:3003:G:O2'	29:D1:3004:C:H5'	2.17	0.45
29:D1:3064:U:N3	29:D1:3065:G:N7	2.64	0.45
29:D1:3086:A:N9	29:D1:3087:A:C8	2.85	0.45
29:D1:3088:G:H3'	29:D1:3089:C:H6	1.80	0.45
29:D1:3101:G:C2'	29:D1:3102:G:C5'	2.76	0.45
29:D1:3153:U:H1'	29:D1:3395:G:N2	2.32	0.45
29:D1:3191:G:N1	29:D1:3202:G:N1	2.64	0.45
29:D1:3209:A:C2	29:D1:3210:A:N1	2.79	0.45
29:D1:3236:U:C4	29:D1:3237:U:O4	2.70	0.45
29:D1:3238:G:C6	29:D1:3250:U:N3	2.84	0.45
29:D1:3281:U:C2	29:D1:3282:U:N3	2.85	0.45
29:D1:3302:U:C2'	29:D1:3303:G:H5"	2.47	0.45
29:D1:3327:G:H5'	29:D1:3328:G:OP2	2.17	0.45
30:D2:46:A:N3	30:D2:46:A:C3'	2.64	0.45
30:D2:47:C:O2	30:D2:47:C:H2'	2.15	0.45
31:D3:42:G:OP1	59:Dd:54:LYS:O	2.34	0.45
31:D3:79:A:C3'	31:D3:80:A:H8	2.29	0.45
32:DA:54:LYS:CA	32:DA:55:LEU:CB	2.95	0.45
36:DE:44:TYR:CA	36:DE:45:ASN:CB	2.95	0.45
36:DE:96:ALA:O	36:DE:99:TYR:N	2.50	0.45
36:DE:243:ALA:CB	36:DE:247:ILE:CB	2.94	0.45
39:DH:99:PRO:HA	39:DH:236:GLY:H	1.80	0.45
39:DH:110:THR:O	39:DH:111:LYS:C	2.60	0.45
40:DI:66:ALA:O	40:DI:67:ALA:C	2.59	0.45
40:DI:157:ASN:O	40:DI:160:ASP:N	2.49	0.45
41:DJ:202:LYS:O	41:DJ:203:LYS:CB	2.65	0.45
41:DJ:217:PHE:O	41:DJ:220:GLN:N	2.49	0.45
45:DP:99:LEU:C	45:DP:101:ARG:N	2.73	0.45
46:DQ:44:ALA:O	46:DQ:46:LYS:N	2.50	0.45
46:DQ:104:ALA:O	46:DQ:106:GLY:N	2.49	0.45
50:DU:121:GLU:O	50:DU:122:CYS:C	2.60	0.45
53:DX:28:ARG:O	53:DX:31:LEU:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DX:73:VAL:HA	53:DX:80:VAL:HA	1.98	0.45
59:Dd:60:GLY:C	59:Dd:62:GLY:N	2.75	0.45
62:Dg:58:SER:C	62:Dg:60:CYS:N	2.74	0.45
62:Dg:76:ALA:O	62:Dg:80:ARG:N	2.37	0.45
1:A1:104:A:C2	1:A1:106:U:H1'	2.52	0.45
1:A1:111:U:O2	1:A1:111:U:H2'	2.16	0.45
1:A1:119:A:C2'	1:A1:120:U:O5'	2.65	0.45
1:A1:210:A:H3'	1:A1:211:U:H5"	1.98	0.45
1:A1:266:A:O3'	1:A1:267:U:O4'	2.35	0.45
1:A1:269:G:C5	1:A1:270:C:C5	3.05	0.45
1:A1:333:A:C2	1:A1:334:G:N3	2.85	0.45
1:A1:333:A:N1	1:A1:334:G:C6	2.85	0.45
1:A1:402:C:C2	1:A1:403:G:O4'	2.70	0.45
1:A1:426:G:C2	1:A1:427:C:C6	3.04	0.45
1:A1:426:G:H21	1:A1:459:G:C2'	2.30	0.45
1:A1:450:U:C2'	1:A1:451:A:H8	2.29	0.45
1:A1:578:U:H4'	1:A1:578:U:OP1	2.16	0.45
1:A1:825:U:C6	1:A1:826:U:C2	3.05	0.45
1:A1:840:U:HO2'	1:A1:841:U:P	2.39	0.45
1:A1:868:G:H2'	1:A1:868:G:N3	2.32	0.45
1:A1:995:A:H3'	1:A1:996:U:H6	1.82	0.45
1:A1:1086:A:H5'	3:AB:164:SER:CB	2.47	0.45
1:A1:1116:A:C6	1:A1:1131:A:C8	3.04	0.45
1:A1:1131:A:C3'	1:A1:1132:A:H8	2.30	0.45
1:A1:1149:G:O6	1:A1:1629:G:C2	2.70	0.45
1:A1:1150:G:H2'	1:A1:1151:A:O4'	2.16	0.45
1:A1:1215:C:C2'	1:A1:1216:C:H5'	2.47	0.45
1:A1:1225:U:C5	1:A1:1226:A:C6	3.05	0.45
1:A1:1242:A:N1	1:A1:1452:U:H1'	2.32	0.45
1:A1:1257:U:O2'	1:A1:1258:U:C5'	2.64	0.45
1:A1:1332:C:O2'	1:A1:1333:C:P	2.75	0.45
1:A1:1344:A:C2	1:A1:1345:A:H1'	2.51	0.45
1:A1:1370:U:C4	1:A1:1371:A:N7	2.85	0.45
1:A1:1471:A:C8	1:A1:1540:G:H1'	2.52	0.45
1:A1:1481:C:H6	1:A1:1482:C:N1	2.15	0.45
1:A1:1657:U:C4	74:A1:1949:OHX:N1	2.84	0.45
1:A1:1720:G:C8	1:A1:1721:A:C8	3.05	0.45
4:AC:10:LYS:O	4:AC:11:LEU:C	2.59	0.45
5:AD:218:GLU:C	5:AD:220:VAL:N	2.75	0.45
7:AF:89:ALA:O	7:AF:90:TYR:O	2.35	0.45
11:AJ:106:LYS:O	11:AJ:109:PHE:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:11:ARG:O	12:AK:15:ALA:N	2.50	0.45
12:AK:27:ASP:C	12:AK:29:GLN:N	2.75	0.45
15:AN:43:LYS:C	15:AN:45:ALA:H	2.25	0.45
29:B1:47:C:C5	29:B1:48:A:C5	3.05	0.45
29:B1:53:G:N3	29:B1:54:C:C6	2.85	0.45
29:B1:64:G:N2	29:B1:322:U:C2	2.85	0.45
29:B1:84:U:OP1	29:B1:701:G:H5"	2.16	0.45
29:B1:90:C:H4'	29:B1:282:G:OP1	2.17	0.45
29:B1:180:C:H2'	29:B1:181:U:H6	1.82	0.45
29:B1:211:A:O4'	29:B1:229:G:H1'	2.17	0.45
29:B1:307:A:H2'	29:B1:308:A:C5'	2.47	0.45
29:B1:359:U:O4	29:B1:360:G:N1	2.50	0.45
29:B1:371:G:C8	29:B1:371:G:C3'	3.00	0.45
29:B1:377:A:O2'	29:B1:391:A:N6	2.45	0.45
29:B1:533:A:O2'	29:B1:534:U:C2	2.57	0.45
29:B1:712:G:C5	29:B1:713:U:C5	3.05	0.45
29:B1:716:A:C8	29:B1:717:C:O4'	2.70	0.45
29:B1:857:G:C4'	29:B1:858:A:OP1	2.65	0.45
29:B1:942:U:O4	74:B1:3492:OHX:N2	2.50	0.45
29:B1:947:G:C5	29:B1:1373:A:C2	3.06	0.45
29:B1:1105:A:N6	29:B1:1106:G:C6	2.85	0.45
29:B1:1111:U:O2'	29:B1:1112:A:O5'	2.24	0.45
29:B1:1489:A:C5'	29:B1:1490:A:OP2	2.65	0.45
29:B1:1539:A:C6	29:B1:1540:U:C5	3.05	0.45
29:B1:1558:A:H5"	29:B1:1559:A:O5'	2.16	0.45
29:B1:1594:A:O2'	29:B1:1614:C:O2	2.34	0.45
29:B1:1816:A:C8	29:B1:1816:A:OP2	2.70	0.45
29:B1:1924:U:N3	29:B1:1926:C:N3	2.65	0.45
29:B1:1946:A:H3'	29:B1:1947:G:H8	1.82	0.45
29:B1:1952:G:C6	29:B1:2093:A:N6	2.85	0.45
29:B1:2137:U:C5	29:B1:2142:A:N7	2.85	0.45
29:B1:2162:U:H2'	29:B1:2163:C:O4'	2.18	0.45
29:B1:2278:C:O2'	29:B1:2279:A:H5"	2.16	0.45
29:B1:2651:G:N3	29:B1:2796:G:C2	2.84	0.45
29:B1:2719:U:C4	29:B1:2720:G:C5	3.05	0.45
29:B1:2847:A:C5'	29:B1:2848:G:OP2	2.55	0.45
29:B1:2906:C:H2'	29:B1:2907:G:O4'	2.17	0.45
29:B1:2914:G:O2'	29:B1:2933:A:N6	2.50	0.45
29:B1:3046:A:C5	29:B1:3047:U:C4	3.05	0.45
29:B1:3049:A:C2	34:BC:75:ALA:CB	3.00	0.45
29:B1:3221:C:H2'	29:B1:3222:U:C5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3293:U:H3'	29:B1:3293:U:O2	2.17	0.45
30:B2:62:U:O2	30:B2:62:U:C2'	2.65	0.45
30:B2:62:U:C5'	30:B2:63:A:OP2	2.65	0.45
30:B2:77:G:C1'	30:B2:78:U:OP2	2.63	0.45
30:B2:106:U:C2	30:B2:107:C:C4	3.05	0.45
31:B3:24:G:H2'	31:B3:25:G:O4'	2.17	0.45
31:B3:42:G:H21	31:B3:43:A:H1'	1.82	0.45
31:B3:64:U:C4	31:B3:97:A:C2	3.05	0.45
33:BB:121:GLY:O	33:BB:122:ASP:C	2.59	0.45
34:BC:174:LYS:O	34:BC:175:LYS:CB	2.64	0.45
34:BC:292:ALA:HA	34:BC:293:ASN:HA	1.32	0.45
34:BC:334:ARG:O	34:BC:335:ILE:C	2.59	0.45
38:BG:183:ASP:O	38:BG:184:LEU:C	2.59	0.45
40:BI:29:GLY:O	40:BI:32:GLY:N	2.45	0.45
43:BN:58:ILE:N	43:BN:59:ASN:CB	2.79	0.45
43:BN:78:THR:C	43:BN:80:THR:H	2.25	0.45
44:BO:3:ALA:O	44:BO:4:TYR:C	2.59	0.45
44:BO:5:LYS:O	44:BO:6:TYR:C	2.58	0.45
45:BP:81:TYR:C	45:BP:83:ALA:N	2.75	0.45
48:BS:8:LYS:O	48:BS:9:ARG:C	2.60	0.45
48:BS:37:SER:C	48:BS:39:ASN:H	2.25	0.45
50:BU:127:PRO:O	50:BU:130:ALA:N	2.42	0.45
51:BV:7:SER:O	51:BV:8:PHE:C	2.59	0.45
1:C1:55:A:C2	1:C1:403:G:C6	3.04	0.45
1:C1:61:A:OP2	1:C1:453:U:H6	2.00	0.45
1:C1:104:A:N1	1:C1:106:U:H1'	2.31	0.45
1:C1:551:G:N3	1:C1:552:G:C8	2.84	0.45
1:C1:723:G:H2'	1:C1:724:C:O4'	2.17	0.45
1:C1:756:A:N6	1:C1:757:A:N6	2.65	0.45
1:C1:778:G:C2	1:C1:783:G:C6	3.05	0.45
1:C1:889:U:O2'	1:C1:890:C:C5'	2.64	0.45
1:C1:1065:A:C5	1:C1:1066:C:C5	3.05	0.45
1:C1:1065:A:C6	1:C1:1066:C:C4	3.05	0.45
1:C1:1087:A:N6	1:C1:1088:A:N6	2.65	0.45
1:C1:1239:U:H5	1:C1:1241:G:O6	2.00	0.45
1:C1:1241:G:O3'	1:C1:1242:A:C8	2.67	0.45
1:C1:1254:U:O2'	1:C1:1255:G:OP2	2.35	0.45
1:C1:1294:G:N3	1:C1:1295:G:C8	2.85	0.45
1:C1:1489:U:H5"	1:C1:1490:C:OP2	2.17	0.45
1:C1:1541:G:C5	1:C1:1542:G:O6	2.70	0.45
1:C1:1633:A:OP1	1:C1:1633:A:C4'	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1756:A:C8	1:C1:1756:A:H3'	2.52	0.45
3:CB:57:PHE:O	3:CB:59:HIS:N	2.50	0.45
9:CH:57:PRO:CB	9:CH:60:ALA:HB3	2.47	0.45
10:CI:125:PRO:O	10:CI:127:ARG:N	2.50	0.45
11:CJ:48:VAL:C	11:CJ:50:GLU:N	2.73	0.45
11:CJ:102:LYS:C	11:CJ:104:GLU:H	2.24	0.45
14:CM:35:ASP:O	14:CM:36:ILE:CB	2.64	0.45
16:CO:17:ALA:C	16:CO:19:LYS:N	2.75	0.45
21:CT:63:GLY:O	21:CT:64:HIS:C	2.59	0.45
24:Cc:43:UNK:HA	24:Cc:70:UNK:O	2.15	0.45
29:D1:199:A:N1	29:D1:201:A:H1'	2.32	0.45
29:D1:232:G:H2'	29:D1:233:C:H6	1.82	0.45
29:D1:264:G:C6	29:D1:265:A:C5	3.03	0.45
29:D1:303:G:C2	29:D1:2778:G:C8	3.04	0.45
29:D1:385:A:C2'	29:D1:386:A:O5'	2.65	0.45
29:D1:413:U:C2	29:D1:414:U:C5	3.04	0.45
29:D1:547:G:C8	29:D1:548:G:C4	3.05	0.45
29:D1:556:U:C5	29:D1:557:A:H2	2.35	0.45
29:D1:703:G:HO2'	29:D1:787:G:HO2'	1.55	0.45
29:D1:752:C:C6	29:D1:753:C:H5	2.35	0.45
29:D1:773:G:O2'	29:D1:774:G:C8	2.26	0.45
29:D1:859:G:N2	29:D1:861:C:C1'	2.77	0.45
29:D1:880:G:C4	29:D1:882:A:N7	2.85	0.45
29:D1:1103:A:O4'	29:D1:1103:A:OP1	2.35	0.45
29:D1:1194:G:O4'	29:D1:1319:G:O3'	2.35	0.45
29:D1:1650:G:H2'	29:D1:1651:U:C6	2.52	0.45
29:D1:1687:U:O2'	29:D1:1688:U:H4'	2.17	0.45
29:D1:1779:C:C5'	29:D1:1780:G:H5"	2.47	0.45
29:D1:1798:A:N1	29:D1:1799:A:C6	2.85	0.45
29:D1:2417:U:C4	29:D1:2606:G:N7	2.84	0.45
29:D1:2594:C:C6	29:D1:2595:A:N7	2.85	0.45
29:D1:2673:A:O3'	42:DK:106:ILE:O	2.35	0.45
29:D1:2680:A:C8	42:DK:54:VAL:CB	2.99	0.45
29:D1:2688:U:C2'	29:D1:2689:A:OP1	2.64	0.45
29:D1:2798:C:O5'	29:D1:2799:A:OP1	2.35	0.45
29:D1:2917:G:O6	29:D1:2930:A:C6	2.70	0.45
29:D1:2980:U:H2'	29:D1:2981:U:C5'	2.46	0.45
29:D1:2983:C:O2'	29:D1:2984:C:H5'	2.17	0.45
29:D1:2987:A:C6	29:D1:2988:C:N4	2.85	0.45
29:D1:3021:A:O4'	29:D1:3023:U:C2	2.69	0.45
29:D1:3059:G:C8	29:D1:3059:G:C5'	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3065:G:H2'	29:D1:3066:U:C6	2.52	0.45
29:D1:3117:C:C4	29:D1:3118:C:C5	3.05	0.45
29:D1:3136:G:C2	29:D1:3137:C:C6	3.05	0.45
29:D1:3370:A:H2'	29:D1:3370:A:N3	2.31	0.45
30:D2:88:G:C4	30:D2:89:G:C8	3.04	0.45
31:D3:25:G:H2'	31:D3:26:U:O5'	2.17	0.45
31:D3:43:A:C4	31:D3:44:A:C8	3.05	0.45
31:D3:143:U:H2'	31:D3:144:G:H8	1.80	0.45
34:DC:44:THR:O	34:DC:45:SER:CB	2.65	0.45
38:DG:153:PHE:O	38:DG:154:GLY:O	2.35	0.45
73:DM:36:GLN:O	73:DM:38:MET:N	2.50	0.45
44:DO:84:PRO:CA	74:DO:301:OHX:N6	2.77	0.45
45:DP:49:ARG:O	45:DP:50:ASN:C	2.60	0.45
48:DS:86:GLU:O	48:DS:89:LEU:O	2.34	0.45
49:DT:11:THR:O	49:DT:12:ARG:C	2.59	0.45
52:DW:54:TYR:O	52:DW:56:ARG:N	2.47	0.45
54:DY:135:GLU:O	54:DY:137:LYS:N	2.50	0.45
58:Dc:38:ARG:CB	58:Dc:39:PRO:CA	2.88	0.45
59:Dd:21:ARG:O	74:Dd:101:OHX:N3	2.50	0.45
1:A1:36:C:N3	1:A1:472:U:O4	2.49	0.44
1:A1:221:A:N7	1:A1:832:U:O4	2.50	0.44
1:A1:321:C:H2'	1:A1:322:G:H5'	1.96	0.44
1:A1:379:U:O3'	1:A1:379:U:OP1	2.35	0.44
1:A1:438:A:O5'	1:A1:438:A:C8	2.69	0.44
1:A1:518:A:C3'	1:A1:519:C:C5'	2.95	0.44
1:A1:568:G:N1	1:A1:569:C:C4	2.86	0.44
1:A1:642:G:C6	1:A1:643:G:C6	3.05	0.44
1:A1:643:G:C2	1:A1:692:C:C4	3.05	0.44
1:A1:831:U:H5'	1:A1:832:U:OP2	2.17	0.44
1:A1:862:A:C8	1:A1:963:A:N6	2.85	0.44
1:A1:960:U:C2'	1:A1:961:U:H5'	2.47	0.44
1:A1:1203:A:C2	1:A1:1556:A:C1'	2.92	0.44
1:A1:1346:A:O4'	1:A1:1346:A:OP1	2.34	0.44
1:A1:1358:G:O2'	14:AM:129:GLN:C	2.60	0.44
1:A1:1428:G:C2	1:A1:1429:G:C5	3.04	0.44
1:A1:1584:G:N7	11:AJ:123:ARG:O	2.50	0.44
1:A1:1783:C:N4	1:A1:1784:C:N4	2.66	0.44
4:AC:11:LEU:O	4:AC:12:VAL:C	2.59	0.44
5:AD:182:ALA:C	5:AD:184:PHE:H	2.25	0.44
13:AL:108:LYS:O	13:AL:111:ASP:CB	2.65	0.44
14:AM:126:GLU:O	14:AM:127:ASN:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:15:GLN:O	15:AN:17:GLN:HA	2.17	0.44
29:B1:34:A:H5'	29:B1:35:A:OP2	2.16	0.44
29:B1:40:A:N6	29:B1:937:G:C2	2.85	0.44
29:B1:41:G:H4'	29:B1:2410:U:H2'	1.99	0.44
29:B1:72:C:C5	29:B1:73:C:N1	2.85	0.44
29:B1:171:G:H2'	29:B1:172:G:O5'	2.17	0.44
29:B1:252:U:H4'	29:B1:253:A:OP2	2.17	0.44
29:B1:394:G:H2'	29:B1:395:A:O5'	2.17	0.44
29:B1:409:A:OP2	29:B1:410:U:C5	2.71	0.44
29:B1:532:A:OP2	29:B1:533:A:N6	2.49	0.44
29:B1:585:A:H5"	29:B1:586:C:P	2.58	0.44
29:B1:600:G:N7	74:B1:3620:OHX:N2	2.65	0.44
29:B1:641:C:O2'	29:B1:642:U:P	2.75	0.44
29:B1:652:G:H2'	29:B1:2361:A:H5"	1.99	0.44
29:B1:706:A:H4'	29:B1:783:A:O2'	2.18	0.44
29:B1:769:G:N3	29:B1:770:G:N9	2.66	0.44
29:B1:943:U:H5'	29:B1:943:U:H6	1.82	0.44
29:B1:953:G:O3'	29:B1:954:U:O4'	2.35	0.44
29:B1:998:A:C2'	29:B1:999:G:C5'	2.93	0.44
29:B1:1029:G:C3'	29:B1:1030:A:H5'	2.48	0.44
29:B1:1057:A:C6	29:B1:1058:U:C5	3.05	0.44
29:B1:1077:U:N3	29:B1:1083:G:N2	2.65	0.44
29:B1:1189:C:N4	29:B1:1316:C:OP2	2.47	0.44
29:B1:1213:G:H2'	29:B1:1214:U:O5'	2.17	0.44
29:B1:1246:G:C2	29:B1:1265:U:C5	3.06	0.44
29:B1:1315:U:O2'	29:B1:1316:C:C5'	2.65	0.44
29:B1:1508:C:C2'	29:B1:1509:A:H5'	2.46	0.44
29:B1:1511:U:H5'	29:B1:1512:U:H5	1.81	0.44
29:B1:1549:U:H2'	29:B1:1550:C:C6	2.52	0.44
29:B1:1561:G:C5	29:B1:1562:C:C5	3.05	0.44
29:B1:1571:A:N3	29:B1:1571:A:H2'	2.31	0.44
29:B1:1783:U:H2'	29:B1:1784:G:C8	2.53	0.44
29:B1:1907:C:H3'	29:B1:1907:C:C6	2.49	0.44
29:B1:2107:A:O2'	29:B1:2108:C:H5'	2.17	0.44
29:B1:2249:G:H2'	29:B1:2250:G:O4'	2.16	0.44
29:B1:2252:A:N1	29:B1:2253:G:C6	2.85	0.44
29:B1:2295:A:H2'	29:B1:2296:A:C8	2.52	0.44
29:B1:2514:U:O2'	29:B1:2515:A:H8	2.01	0.44
29:B1:2615:G:H2'	29:B1:2616:C:C6	2.52	0.44
29:B1:2672:G:H4'	42:BK:104:PHE:C	2.42	0.44
29:B1:2690:G:OP2	29:B1:2691:A:N7	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2694:A:C5'	29:B1:2695:A:OP2	2.65	0.44
29:B1:2717:U:O4	29:B1:2740:A:C6	2.70	0.44
29:B1:2718:U:OP2	74:B1:3592:OHX:N5	2.50	0.44
29:B1:2808:A:N3	29:B1:2808:A:H2'	2.31	0.44
29:B1:2847:A:C8	29:B1:2898:G:C5	3.05	0.44
29:B1:2894:C:H2'	29:B1:2895:G:C8	2.48	0.44
29:B1:2900:A:O2'	29:B1:2901:G:O5'	2.35	0.44
29:B1:3202:G:C2	29:B1:3203:U:O2	2.70	0.44
29:B1:3202:G:N1	29:B1:3203:U:N3	2.65	0.44
29:B1:3207:U:H3'	29:B1:3208:G:H5'	1.99	0.44
30:B2:4:U:C2	30:B2:118:A:C2	3.05	0.44
30:B2:82:G:C5	30:B2:99:G:N1	2.86	0.44
31:B3:9:A:C2	31:B3:10:A:N7	2.85	0.44
31:B3:69:U:H2'	31:B3:70:G:C3'	2.47	0.44
34:BC:122:TRP:HA	34:BC:128:LYS:O	2.16	0.44
34:BC:301:THR:HA	34:BC:302:LYS:HA	1.59	0.44
35:BD:123:ALA:C	35:BD:125:ALA:N	2.71	0.44
39:BH:217:THR:O	39:BH:220:ALA:HB3	2.17	0.44
43:BN:26:GLY:O	43:BN:27:GLN:C	2.60	0.44
45:BP:49:ARG:O	45:BP:52:LEU:N	2.50	0.44
45:BP:95:GLY:C	45:BP:97:ALA:N	2.75	0.44
1:C1:143:G:H2'	1:C1:144:U:O2'	2.16	0.44
1:C1:380:U:C2'	1:C1:381:C:C6	2.80	0.44
1:C1:542:A:H2'	1:C1:544:A:H5"	1.98	0.44
1:C1:601:A:C5	1:C1:602:U:C5	3.04	0.44
1:C1:649:U:C6	1:C1:650:U:C5	3.05	0.44
1:C1:718:U:H4'	1:C1:719:U:OP2	2.16	0.44
1:C1:733:A:C4	1:C1:734:A:C8	3.05	0.44
1:C1:886:U:H2'	9:CH:122:PRO:CB	2.47	0.44
1:C1:900:A:C4'	1:C1:916:U:H1'	2.46	0.44
1:C1:903:U:O2	1:C1:906:A:N7	2.50	0.44
1:C1:915:A:N7	1:C1:916:U:N3	2.64	0.44
1:C1:964:U:O4'	1:C1:965:U:C2	2.70	0.44
1:C1:1045:C:N4	1:C1:1074:G:H1	2.15	0.44
1:C1:1228:G:H2'	1:C1:1228:G:N3	2.32	0.44
1:C1:1354:G:C5	1:C1:1355:C:C5	3.05	0.44
1:C1:1373:C:O2	1:C1:1373:C:C2'	2.64	0.44
1:C1:1390:U:C1'	1:C1:1413:U:C2	3.00	0.44
1:C1:1428:G:C2	1:C1:1429:G:N7	2.85	0.44
1:C1:1605:G:H2'	1:C1:1606:C:H5'	1.99	0.44
1:C1:1634:C:O5'	1:C1:1634:C:N1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1744:A:N6	1:C1:1745:G:C6	2.85	0.44
2:CA:13:ASP:N	2:CA:17:LEU:CB	2.81	0.44
2:CA:74:VAL:O	2:CA:121:VAL:HA	2.16	0.44
3:CB:57:PHE:C	3:CB:59:HIS:H	2.24	0.44
3:CB:147:ASN:C	3:CB:149:GLY:N	2.75	0.44
4:CC:162:GLN:O	4:CC:163:PRO:C	2.60	0.44
11:CJ:62:ASN:O	11:CJ:63:ILE:CB	2.63	0.44
12:CK:66:VAL:O	12:CK:67:ARG:C	2.59	0.44
13:CL:114:GLU:O	13:CL:115:ARG:C	2.60	0.44
21:CT:27:ALA:O	21:CT:28:GLY:C	2.59	0.44
21:CT:257:ALA:C	21:CT:259:GLY:H	2.23	0.44
29:D1:18:G:O2'	29:D1:19:U:H5'	2.17	0.44
29:D1:22:G:N1	31:D3:35:C:N3	2.62	0.44
29:D1:23:A:C2	29:D1:24:G:N9	2.85	0.44
29:D1:246:U:H3'	29:D1:247:C:C5'	2.42	0.44
29:D1:309:U:C5	29:D1:310:U:C5	3.04	0.44
29:D1:382:U:C4	29:D1:383:G:N9	2.86	0.44
29:D1:539:C:O2	29:D1:539:C:C2'	2.63	0.44
29:D1:559:A:H2'	29:D1:560:G:H8	1.82	0.44
29:D1:584:G:C2	29:D1:585:A:C5	3.05	0.44
29:D1:608:A:C6	29:D1:609:G:C5	3.05	0.44
29:D1:937:G:OP2	54:DY:24:LYS:CB	2.65	0.44
29:D1:965:A:N3	29:D1:965:A:C2'	2.76	0.44
29:D1:1169:A:N1	29:D1:1330:A:C5	2.85	0.44
29:D1:1205:A:C6	29:D1:1206:G:C5	3.05	0.44
29:D1:1224:C:C4	29:D1:1285:G:N1	2.85	0.44
29:D1:1237:G:OP1	29:D1:1237:G:H3'	2.17	0.44
29:D1:1354:G:H2'	29:D1:1355:A:C4	2.52	0.44
29:D1:1393:A:N7	29:D1:1418:A:C4	2.85	0.44
29:D1:1498:A:C2	29:D1:1519:G:C2	3.05	0.44
29:D1:1557:A:C4	29:D1:1558:A:H1'	2.52	0.44
29:D1:1750:A:C2'	29:D1:1751:G:OP1	2.65	0.44
29:D1:1922:A:N7	29:D1:1923:C:C5	2.85	0.44
29:D1:1945:A:C6	29:D1:2104:A:C6	3.05	0.44
29:D1:2141:U:O2	29:D1:2956:A:C6	2.70	0.44
29:D1:2144:A:C2	29:D1:2281:A:N7	2.83	0.44
29:D1:2179:C:O2	29:D1:2179:C:O2'	2.35	0.44
29:D1:2206:G:N2	29:D1:2207:A:C8	2.85	0.44
29:D1:2794:G:C2	29:D1:2795:U:C2	3.05	0.44
29:D1:2808:A:N3	29:D1:2808:A:H2'	2.32	0.44
29:D1:2851:A:C2'	29:D1:2852:C:O4'	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2908:G:C2'	29:D1:2909:U:O5'	2.66	0.44
29:D1:2948:C:C2	29:D1:2949:U:C5	3.05	0.44
29:D1:2997:G:N2	29:D1:2998:U:H4'	2.31	0.44
29:D1:3003:G:N3	29:D1:3004:C:C5	2.84	0.44
29:D1:3079:U:O2'	29:D1:3080:G:P	2.75	0.44
29:D1:3203:U:C2'	29:D1:3204:C:N1	2.80	0.44
29:D1:3220:G:N2	29:D1:3221:C:C5	2.85	0.44
29:D1:3245:A:O2'	29:D1:3246:G:O5'	2.36	0.44
30:D2:22:A:C6	30:D2:23:A:N1	2.85	0.44
30:D2:31:U:C5	30:D2:32:U:C5	3.05	0.44
31:D3:54:A:H2'	31:D3:55:U:O5'	2.16	0.44
31:D3:102:U:O4	31:D3:103:G:C6	2.70	0.44
33:DB:91:GLY:O	33:DB:93:LYS:N	2.50	0.44
34:DC:132:LYS:O	34:DC:134:SER:N	2.46	0.44
34:DC:289:ASP:CB	34:DC:290:ASP:CB	2.95	0.44
34:DC:289:ASP:CA	34:DC:290:ASP:CB	2.95	0.44
35:DD:89:ALA:O	35:DD:91:GLY:N	2.50	0.44
35:DD:175:HIS:O	35:DD:176:SER:C	2.59	0.44
36:DE:199:ILE:O	36:DE:201:GLY:N	2.50	0.44
38:DG:48:ASN:C	38:DG:49:ALA:O	2.60	0.44
42:DK:76:ALA:C	42:DK:78:GLU:N	2.73	0.44
45:DP:184:THR:O	45:DP:187:GLU:CB	2.65	0.44
48:DS:18:GLY:C	48:DS:20:ARG:N	2.75	0.44
48:DS:35:ALA:HB1	48:DS:40:ALA:HB1	1.98	0.44
49:DT:101:CYS:C	49:DT:103:GLN:H	2.24	0.44
49:DT:110:LYS:O	49:DT:111:ALA:C	2.59	0.44
49:DT:112:ASN:C	49:DT:114:ALA:N	2.75	0.44
61:Df:33:ALA:O	61:Df:34:SER:C	2.59	0.44
64:Di:8:UNK:O	64:Di:10:UNK:N	2.50	0.44
1:A1:17:C:N3	1:A1:18:C:C5	2.86	0.44
1:A1:63:G:C6	1:A1:64:U:C5	3.05	0.44
1:A1:202:A:C5	1:A1:203:U:O4	2.70	0.44
1:A1:361:C:C4	1:A1:384:G:C2	3.05	0.44
1:A1:363:G:N1	1:A1:382:C:C4	2.85	0.44
1:A1:413:U:C2	1:A1:421:A:C2	3.06	0.44
1:A1:439:U:O2'	1:A1:440:U:H4'	2.17	0.44
1:A1:929:A:C6	1:A1:930:A:C4	3.05	0.44
1:A1:1109:G:C6	1:A1:1110:G:N7	2.86	0.44
1:A1:1170:G:C6	1:A1:1574:G:C6	3.06	0.44
1:A1:1174:C:H4'	1:A1:1601:G:C5	2.52	0.44
1:A1:1276:U:H5'	4:AC:147:ALA:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1324:G:C6	1:A1:1325:A:C8	3.04	0.44
1:A1:1346:A:H2'	1:A1:1347:U:O5'	2.18	0.44
1:A1:1543:A:H2	1:A1:1544:U:H1'	1.81	0.44
1:A1:1567:U:C2'	1:A1:1568:C:O4'	2.64	0.44
1:A1:1629:G:C2'	1:A1:1630:U:O4'	2.64	0.44
1:A1:1684:U:C4	1:A1:1721:A:C2	2.98	0.44
1:A1:1717:G:C6	1:A1:1718:G:C2	3.04	0.44
1:A1:1765:A:OP1	74:A1:1931:OHX:N3	2.50	0.44
2:AA:175:TYR:O	2:AA:177:LEU:N	2.50	0.44
4:AC:27:ARG:O	4:AC:28:GLU:C	2.60	0.44
6:AE:96:VAL:C	6:AE:98:ALA:N	2.75	0.44
6:AE:103:ASP:C	6:AE:105:LEU:N	2.74	0.44
11:AJ:80:ALA:C	11:AJ:82:ARG:N	2.75	0.44
12:AK:19:ARG:O	12:AK:20:TYR:C	2.60	0.44
21:AT:282:SER:C	21:AT:284:ALA:H	2.20	0.44
21:AT:307:ASP:C	21:AT:309:VAL:H	2.24	0.44
24:Ac:51:UNK:CA	24:Ac:65:UNK:HA	2.35	0.44
29:B1:44:U:OP2	44:BO:83:LYS:CB	2.66	0.44
29:B1:170:G:N2	29:B1:171:G:H1'	2.33	0.44
29:B1:396:A:C4'	29:B1:397:A:OP1	2.65	0.44
29:B1:425:G:C6	29:B1:635:G:N1	2.85	0.44
29:B1:436:A:H2'	29:B1:437:G:O4'	2.18	0.44
29:B1:510:G:N1	29:B1:511:G:C4	2.85	0.44
29:B1:512:U:O2	29:B1:579:G:C2	2.69	0.44
29:B1:612:U:C1'	29:B1:613:G:N7	2.75	0.44
29:B1:618:C:C2'	29:B1:619:A:C8	2.73	0.44
29:B1:636:C:O2'	29:B1:637:C:O5'	2.35	0.44
29:B1:656:A:H5'	29:B1:657:A:OP2	2.17	0.44
29:B1:674:G:H2'	29:B1:675:C:O4'	2.18	0.44
29:B1:682:U:O5'	29:B1:683:U:OP2	2.35	0.44
29:B1:756:U:C4	29:B1:757:C:C5	3.05	0.44
29:B1:763:G:N7	29:B1:764:U:C2	2.85	0.44
29:B1:779:G:H2'	29:B1:780:A:O4'	2.18	0.44
29:B1:844:G:H5"	29:B1:845:G:P	2.57	0.44
29:B1:947:G:N3	29:B1:948:C:C6	2.86	0.44
29:B1:986:U:N3	29:B1:1099:A:C2	2.84	0.44
29:B1:1121:U:H2'	29:B1:1122:U:C6	2.52	0.44
29:B1:1130:A:C8	29:B1:1132:C:C6	3.05	0.44
29:B1:1158:A:N3	29:B1:1158:A:H2'	2.32	0.44
29:B1:1178:G:N7	29:B1:1179:A:N1	2.66	0.44
29:B1:1453:A:H2	74:B1:3561:OHX:N5	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1621:A:H2'	29:B1:1622:U:C5	2.49	0.44
29:B1:1626:U:C2'	29:B1:1627:U:O4'	2.66	0.44
29:B1:1656:A:O4'	29:B1:1657:C:C5	2.70	0.44
29:B1:2119:A:C4	29:B1:2120:A:H2	2.35	0.44
29:B1:2185:G:C6	29:B1:2186:U:C5	3.05	0.44
29:B1:2218:G:C4	29:B1:2228:A:C2	3.06	0.44
29:B1:2222:A:H61	29:B1:2783:U:C5'	2.30	0.44
29:B1:2253:G:C3'	29:B1:2254:U:C6	2.97	0.44
29:B1:2430:A:H2'	29:B1:2431:C:H6	1.82	0.44
29:B1:2441:A:H3'	29:B1:2442:G:H8	1.83	0.44
29:B1:2632:G:C6	29:B1:2633:U:C4	3.05	0.44
29:B1:2679:A:OP2	29:B1:2679:A:C4'	2.65	0.44
29:B1:2688:U:O2	29:B1:2688:U:H2'	2.18	0.44
29:B1:2889:C:C2'	29:B1:2890:A:H5'	2.47	0.44
29:B1:2909:U:H2'	29:B1:2910:A:H5'	1.99	0.44
29:B1:2918:G:N3	29:B1:2919:A:H8	2.11	0.44
29:B1:3110:C:C2'	29:B1:3111:U:H5'	2.46	0.44
29:B1:3115:C:O2'	29:B1:3117:C:H5	2.00	0.44
29:B1:3142:A:H2	74:B1:3428:OHX:N5	2.15	0.44
29:B1:3191:G:C2	29:B1:3202:G:N3	2.86	0.44
29:B1:3202:G:H2'	29:B1:3203:U:C6	2.52	0.44
29:B1:3212:C:C5	29:B1:3213:A:C2	3.05	0.44
29:B1:3265:C:C5	29:B1:3266:G:N7	2.85	0.44
29:B1:3329:U:O4	29:B1:3374:U:C4	2.71	0.44
29:B1:3332:U:C2'	29:B1:3333:G:OP2	2.65	0.44
29:B1:3374:U:C2	29:B1:3375:A:C2	3.06	0.44
74:B1:3536:OHX:N6	44:BO:84:PRO:HA	2.31	0.44
30:B2:11:A:O2'	30:B2:68:C:H5'	2.17	0.44
30:B2:121:U:C3'	36:BE:263:GLU:O	2.65	0.44
31:B3:29:U:N3	31:B3:30:C:H5	2.14	0.44
31:B3:42:G:N2	31:B3:43:A:N9	2.66	0.44
31:B3:130:C:H2'	31:B3:131:A:C8	2.52	0.44
36:BE:185:PHE:CB	36:BE:186:GLU:CA	2.95	0.44
36:BE:204:VAL:O	36:BE:207:TYR:N	2.50	0.44
39:BH:215:VAL:O	39:BH:219:ASP:CB	2.65	0.44
40:BI:65:VAL:O	40:BI:66:ALA:C	2.60	0.44
42:BK:94:ARG:HA	42:BK:95:ASN:HA	1.72	0.44
44:BO:49:ARG:C	44:BO:51:LEU:N	2.73	0.44
45:BP:58:LEU:CB	45:BP:72:HIS:HA	2.47	0.44
49:BT:71:SER:O	49:BT:72:VAL:C	2.60	0.44
51:BV:41:LYS:O	51:BV:43:ARG:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:16:G:N2	1:C1:17:C:N3	2.65	0.44
1:C1:97:C:C5	1:C1:98:U:C5	3.05	0.44
1:C1:106:U:H2'	1:C1:107:C:O4'	2.17	0.44
1:C1:124:A:H2'	1:C1:124:A:N3	2.32	0.44
1:C1:139:C:H2'	1:C1:139:C:O2	2.17	0.44
1:C1:217:A:C1'	1:C1:218:A:C5'	2.96	0.44
1:C1:243:G:N2	1:C1:251:A:C4	2.85	0.44
1:C1:243:G:H5"	1:C1:243:G:H8	1.81	0.44
1:C1:254:A:N3	1:C1:254:A:H2'	2.32	0.44
1:C1:310:C:C5'	1:C1:310:C:H6	2.29	0.44
1:C1:451:A:N3	1:C1:451:A:H2'	2.32	0.44
1:C1:487:G:N3	1:C1:488:G:N7	2.65	0.44
1:C1:735:C:N3	1:C1:736:C:N4	2.64	0.44
1:C1:1236:A:C2	1:C1:1237:G:C4	3.04	0.44
1:C1:1390:U:C2'	1:C1:1391:A:OP2	2.63	0.44
1:C1:1609:U:H3'	1:C1:1610:G:H8	1.82	0.44
2:CA:197:ILE:O	2:CA:198:MET:C	2.60	0.44
2:CA:210:VAL:O	2:CA:212:GLN:N	2.49	0.44
3:CB:43:ARG:O	3:CB:44:LEU:C	2.60	0.44
4:CC:119:ALA:C	4:CC:121:GLY:N	2.75	0.44
13:CL:58:ALA:C	13:CL:60:GLU:N	2.76	0.44
16:CO:49:GLU:O	16:CO:50:PHE:C	2.60	0.44
21:CT:20:VAL:HA	21:CT:37:SER:CB	2.47	0.44
21:CT:280:GLY:O	21:CT:281:TYR:CB	2.65	0.44
23:Cb:110:UNK:C	23:Cb:112:UNK:N	2.77	0.44
24:Cc:27:UNK:HA	24:Cc:30:UNK:CB	2.47	0.44
29:D1:90:C:H2'	29:D1:91:G:H5'	1.99	0.44
29:D1:155:G:OP2	29:D1:157:A:H2	2.00	0.44
29:D1:158:G:N7	29:D1:159:A:C1'	2.74	0.44
29:D1:313:A:C6	29:D1:314:U:C4	3.05	0.44
29:D1:337:G:C2	29:D1:339:C:N3	2.85	0.44
29:D1:397:A:N1	29:D1:400:G:C2	2.84	0.44
29:D1:420:G:C5	29:D1:2385:G:N1	2.85	0.44
29:D1:577:C:O2'	29:D1:578:A:H2'	2.16	0.44
29:D1:616:G:H8	29:D1:616:G:O5'	2.00	0.44
29:D1:632:G:C8	29:D1:632:G:H3'	2.52	0.44
29:D1:659:G:C6	29:D1:1432:C:C2	3.05	0.44
29:D1:681:U:O2	29:D1:682:U:C6	2.70	0.44
29:D1:774:G:C5	29:D1:775:A:C8	3.04	0.44
29:D1:781:G:O6	29:D1:782:U:C4	2.70	0.44
29:D1:835:G:O2'	29:D1:836:A:P	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:863:C:OP1	74:D1:3428:OHX:N3	2.50	0.44
29:D1:898:U:N3	29:D1:899:U:C5	2.85	0.44
29:D1:946:U:C2'	29:D1:947:G:H5'	2.47	0.44
29:D1:985:U:C2'	29:D1:986:U:H6	2.25	0.44
29:D1:1009:A:C2	29:D1:1042:U:O2	2.69	0.44
29:D1:1046:A:H2'	29:D1:1049:C:H5	1.82	0.44
29:D1:1179:A:O4'	29:D1:1328:C:O4'	2.36	0.44
29:D1:1203:A:H2'	29:D1:2855:U:O2'	2.17	0.44
29:D1:1275:C:C4	29:D1:1276:U:C5	3.05	0.44
29:D1:1409:G:O2'	29:D1:1410:U:H5'	2.17	0.44
29:D1:1444:G:C8	29:D1:1444:G:H3'	2.52	0.44
29:D1:1449:A:C8	29:D1:1450:G:C4	3.05	0.44
29:D1:1456:A:N6	29:D1:1477:A:H4'	2.31	0.44
29:D1:1587:A:C2	29:D1:1590:G:C8	3.05	0.44
29:D1:1604:G:C5	29:D1:1605:A:C5	3.04	0.44
29:D1:1673:G:C2	29:D1:1775:G:N3	2.85	0.44
29:D1:1878:G:C3'	29:D1:1879:A:H5'	2.47	0.44
29:D1:2155:G:C5	29:D1:2156:C:C4	3.05	0.44
29:D1:2261:G:N2	29:D1:2263:C:N3	2.64	0.44
29:D1:2680:A:N6	42:DK:56:THR:N	2.64	0.44
29:D1:2711:C:C4	29:D1:2712:U:C5	3.05	0.44
29:D1:2786:G:N3	29:D1:2786:G:H2'	2.32	0.44
29:D1:2823:G:C5	29:D1:2824:G:C8	3.05	0.44
29:D1:2828:G:H2'	29:D1:2829:U:O5'	2.18	0.44
29:D1:2853:A:C5	29:D1:2854:U:C4	3.04	0.44
29:D1:2916:U:C5	29:D1:2935:U:O2	2.70	0.44
29:D1:2946:A:C2'	29:D1:2982:A:N7	2.80	0.44
29:D1:3034:C:H3'	29:D1:3034:C:C6	2.51	0.44
29:D1:3046:A:C4	29:D1:3047:U:C6	3.05	0.44
29:D1:3126:C:C4	29:D1:3127:A:C8	3.05	0.44
29:D1:3218:A:C3'	29:D1:3220:G:C8	3.00	0.44
29:D1:3310:A:C2	29:D1:3311:C:C1'	3.00	0.44
30:D2:121:U:OP2	36:DE:260:PHE:HA	2.17	0.44
31:D3:72:A:O2'	31:D3:73:U:P	2.75	0.44
31:D3:79:A:H2'	31:D3:80:A:C8	2.51	0.44
31:D3:96:A:C3'	31:D3:97:A:H5"	2.39	0.44
31:D3:103:G:C2	31:D3:105:A:N6	2.85	0.44
34:DC:50:LYS:CB	34:DC:333:LYS:N	2.62	0.44
35:DD:168:ALA:C	35:DD:170:LYS:N	2.72	0.44
36:DE:185:PHE:CB	36:DE:186:GLU:CA	2.96	0.44
36:DE:262:LYS:C	36:DE:264:GLN:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:154:VAL:O	40:DI:155:SER:C	2.59	0.44
41:DJ:64:ALA:O	41:DJ:65:LEU:C	2.60	0.44
45:DP:178:VAL:C	45:DP:180:SER:H	2.24	0.44
48:DS:12:ALA:HB2	48:DS:19:LYS:HA	1.99	0.44
52:DW:132:ALA:C	52:DW:134:ASP:N	2.75	0.44
56:Da:25:PHE:O	56:Da:26:LYS:CB	2.65	0.44
1:A1:20:G:C3'	1:A1:21:U:H5'	2.46	0.44
1:A1:92:A:P	1:A1:398:G:H22	2.41	0.44
1:A1:389:G:C4	1:A1:390:G:C8	3.06	0.44
1:A1:437:A:C5'	1:A1:438:A:OP1	2.65	0.44
1:A1:478:A:C2	1:A1:479:C:C4	3.05	0.44
1:A1:652:G:N1	1:A1:683:C:C2	2.85	0.44
1:A1:846:G:HO2'	1:A1:847:A:C4'	2.26	0.44
1:A1:1036:A:H5'	1:A1:1037:C:OP2	2.17	0.44
1:A1:1167:G:C6	1:A1:1168:U:C4	3.06	0.44
1:A1:1214:U:O5'	1:A1:1245:G:N2	2.50	0.44
1:A1:1245:G:C5	1:A1:1246:C:C6	3.06	0.44
1:A1:1251:U:C2	1:A1:1252:C:C6	3.06	0.44
1:A1:1336:A:N1	1:A1:1416:G:C6	2.85	0.44
1:A1:1391:A:N3	1:A1:1392:U:C5	2.85	0.44
1:A1:1607:G:C2	1:A1:1608:U:C6	3.05	0.44
1:A1:1636:C:N3	1:A1:1765:A:C6	2.85	0.44
1:A1:1681:A:C8	1:A1:1682:U:N3	2.86	0.44
1:A1:1791:A:O2'	1:A1:1793:G:C5'	2.62	0.44
2:AA:82:GLY:HA2	2:AA:85:ALA:HB3	1.98	0.44
4:AC:93:ASP:O	4:AC:95:GLY:N	2.50	0.44
5:AD:117:THR:CB	5:AD:191:ALA:HB1	2.47	0.44
5:AD:136:ALA:C	5:AD:138:THR:N	2.72	0.44
21:AT:236:ALA:O	21:AT:237:GLN:CB	2.64	0.44
24:Ac:33:UNK:O	24:Ac:37:UNK:N	2.51	0.44
29:B1:36:C:H4'	29:B1:808:A:H2	1.79	0.44
29:B1:72:C:C3'	29:B1:73:C:C5'	2.83	0.44
29:B1:419:G:H5'	29:B1:420:G:OP2	2.17	0.44
29:B1:533:A:H2'	29:B1:534:U:C6	2.52	0.44
29:B1:598:A:C2	29:B1:599:C:C2	3.05	0.44
29:B1:940:G:OP1	29:B1:2871:G:C6	2.70	0.44
29:B1:954:U:H5	29:B1:1115:G:O2'	1.99	0.44
29:B1:993:G:H21	29:B1:2638:C:P	2.40	0.44
29:B1:1076:C:C4	29:B1:1077:U:O4	2.70	0.44
29:B1:1104:G:N7	29:B1:1105:A:C4	2.86	0.44
29:B1:1131:G:N2	29:B1:2373:A:C5	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1157:G:C6	29:B1:1158:A:C2	3.05	0.44
29:B1:1435:A:N7	29:B1:1437:C:N1	2.64	0.44
29:B1:1713:G:C8	29:B1:1714:A:C2	3.05	0.44
29:B1:1751:G:C5	29:B1:1752:A:N7	2.85	0.44
29:B1:1779:C:P	29:B1:1780:G:H8	2.41	0.44
29:B1:1905:G:N2	29:B1:1907:C:H5'	2.33	0.44
29:B1:1908:A:C8	29:B1:1909:A:C8	3.04	0.44
29:B1:1912:U:HO2'	29:B1:1913:A:P	2.40	0.44
29:B1:2115:G:N2	74:B1:3440:OHX:N5	2.65	0.44
29:B1:2161:G:C6	29:B1:2162:U:C4	3.06	0.44
29:B1:2235:C:H2'	29:B1:2236:G:C8	2.52	0.44
29:B1:2403:G:C8	29:B1:2872:A:C5	3.05	0.44
29:B1:2554:A:N1	33:BB:85:GLY:O	2.50	0.44
29:B1:2704:A:OP2	74:B1:3405:OHX:N4	2.50	0.44
29:B1:2881:C:H2'	29:B1:2882:U:O5'	2.16	0.44
29:B1:2919:A:C3'	29:B1:2920:U:H5'	2.42	0.44
29:B1:2931:C:O2'	29:B1:2932:U:H5'	2.17	0.44
30:B2:18:C:C4	30:B2:19:C:C5	3.05	0.44
30:B2:60:G:C4	30:B2:61:G:C8	3.05	0.44
30:B2:90:U:O2	30:B2:90:U:C2'	2.62	0.44
30:B2:91:G:C5	30:B2:92:A:C5	3.04	0.44
30:B2:120:C:H5"	30:B2:121:U:OP2	2.17	0.44
34:BC:289:ASP:CA	34:BC:290:ASP:CB	2.96	0.44
36:BE:42:ALA:O	36:BE:43:LYS:CB	2.65	0.44
38:BG:103:LEU:O	38:BG:104:GLN:C	2.60	0.44
39:BH:130:TYR:O	39:BH:131:ALA:C	2.59	0.44
42:BK:79:ILE:C	42:BK:81:GLU:N	2.74	0.44
44:BO:137:PRO:O	44:BO:139:HIS:N	2.39	0.44
45:BP:35:VAL:N	45:BP:103:LYS:O	2.50	0.44
49:BT:16:GLN:CB	74:BT:201:OHX:N2	2.80	0.44
50:BU:13:ILE:O	50:BU:14:SER:C	2.60	0.44
58:Bc:27:GLU:O	58:Bc:28:LEU:C	2.61	0.44
59:Bd:23:GLY:N	74:Bd:101:OHX:N1	2.55	0.44
59:Bd:67:LEU:O	59:Bd:68:LYS:O	2.36	0.44
61:Bf:92:GLU:O	61:Bf:93:LEU:O	2.35	0.44
65:Bk:8:UNK:O	65:Bk:9:UNK:C	2.65	0.44
66:Bl:15:UNK:O	66:Bl:18:UNK:CB	2.66	0.44
71:Br:2:UNK:O	71:Br:6:UNK:N	2.51	0.44
1:C1:55:A:HO2'	1:C1:403:G:H1	1.62	0.44
1:C1:156:A:H2'	1:C1:157:A:C8	2.52	0.44
1:C1:273:G:O2'	1:C1:274:G:P	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:333:A:O2'	1:C1:334:G:O5'	2.28	0.44
1:C1:391:A:N1	1:C1:392:G:C5	2.85	0.44
1:C1:468:A:O3'	1:C1:469:C:C4	2.70	0.44
1:C1:589:C:H2'	1:C1:590:C:C6	2.53	0.44
1:C1:804:A:C5	1:C1:805:U:C5	3.05	0.44
1:C1:1204:A:C6	1:C1:1205:C:O2	2.70	0.44
1:C1:1241:G:C3'	1:C1:1242:A:H5"	2.47	0.44
1:C1:1249:U:C2'	1:C1:1250:U:H5'	2.47	0.44
1:C1:1255:G:O4'	1:C1:1255:G:P	2.74	0.44
1:C1:1346:A:C2	15:CN:13:GLU:O	2.58	0.44
1:C1:1378:U:H3'	1:C1:1379:C:H5"	1.98	0.44
1:C1:1498:G:C2	1:C1:1510:U:O2	2.70	0.44
1:C1:1522:U:HO2'	1:C1:1523:G:P	2.40	0.44
1:C1:1679:G:H2'	1:C1:1680:G:O4'	2.17	0.44
2:CA:10:THR:C	2:CA:14:ALA:O	2.60	0.44
2:CA:52:LYS:O	2:CA:54:TRP:N	2.50	0.44
2:CA:72:ASP:HA	2:CA:95:ALA:HA	1.99	0.44
2:CA:88:LYS:C	2:CA:90:ALA:N	2.74	0.44
3:CB:134:LEU:O	3:CB:136:VAL:N	2.50	0.44
3:CB:233:GLN:O	3:CB:234:PRO:C	2.59	0.44
5:CD:117:THR:O	5:CD:121:ILE:CB	2.65	0.44
8:CG:42:ARG:O	8:CG:43:LYS:C	2.59	0.44
11:CJ:28:LEU:HA	14:CM:1:MET:HA	1.98	0.44
14:CM:99:SER:CA	14:CM:102:ARG:CB	2.91	0.44
21:CT:180:ALA:CB	21:CT:190:ALA:O	2.52	0.44
24:Cc:52:UNK:O	24:Cc:64:UNK:N	2.50	0.44
28:Ch:9:UNK:O	28:Ch:10:UNK:C	2.64	0.44
29:D1:37:U:N3	29:D1:38:U:C4	2.86	0.44
29:D1:88:A:C8	29:D1:88:A:C3'	3.00	0.44
29:D1:113:C:H2'	29:D1:113:C:O2	2.16	0.44
29:D1:189:G:C6	29:D1:206:G:C5	3.05	0.44
29:D1:207:U:O2'	29:D1:208:C:H5'	2.18	0.44
29:D1:309:U:C5	29:D1:310:U:C4	3.05	0.44
29:D1:348:A:H1'	29:D1:352:A:N3	2.33	0.44
29:D1:372:A:N3	29:D1:372:A:H2'	2.33	0.44
29:D1:395:A:H2'	29:D1:396:A:C8	2.52	0.44
29:D1:436:A:N1	29:D1:624:G:N1	2.65	0.44
29:D1:589:A:H5"	29:D1:611:A:H2	1.82	0.44
29:D1:659:G:O5'	29:D1:659:G:C8	2.57	0.44
29:D1:718:G:OP1	29:D1:719:U:H4'	2.17	0.44
29:D1:826:G:C6	29:D1:827:A:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:869:G:H2'	29:D1:869:G:N3	2.31	0.44
29:D1:887:G:C5	29:D1:888:A:C5	3.04	0.44
29:D1:891:G:O2'	29:D1:892:U:C5'	2.64	0.44
29:D1:1130:A:C2'	29:D1:1132:C:H6	2.27	0.44
29:D1:1131:G:H2'	29:D1:2825:C:O2'	2.17	0.44
29:D1:1240:A:H3'	29:D1:1241:U:C5'	2.47	0.44
29:D1:1258:U:N3	29:D1:1260:A:OP2	2.50	0.44
29:D1:1357:G:C3'	29:D1:1358:C:H6	2.30	0.44
29:D1:1586:G:H8	29:D1:1586:G:O5'	2.00	0.44
29:D1:1654:A:C2'	29:D1:1655:G:O4'	2.65	0.44
29:D1:1742:U:H2'	29:D1:1743:G:C8	2.49	0.44
29:D1:1778:G:H4'	29:D1:1779:C:C2	2.52	0.44
29:D1:1805:C:O2'	29:D1:1806:A:H5'	2.18	0.44
29:D1:1818:U:H2'	29:D1:1819:U:C6	2.51	0.44
29:D1:1835:A:C5	29:D1:1836:C:C4	3.05	0.44
29:D1:1940:G:C2	29:D1:1941:C:C2	3.05	0.44
29:D1:2197:C:N3	29:D1:2242:A:C2	2.86	0.44
29:D1:2315:G:N3	29:D1:2316:G:C8	2.85	0.44
29:D1:2357:A:C2	29:D1:2983:C:H5	2.33	0.44
29:D1:2368:A:H2'	29:D1:2369:G:H5'	1.98	0.44
29:D1:2397:A:OP1	29:D1:2398:A:H4'	2.17	0.44
29:D1:2405:C:C2	29:D1:2820:A:N1	2.84	0.44
29:D1:2526:C:H3'	29:D1:2527:G:H8	1.82	0.44
29:D1:2581:U:C5'	74:D1:3567:OHX:N1	2.79	0.44
29:D1:2812:C:C2	29:D1:2813:A:C8	3.05	0.44
29:D1:2857:C:C2	29:D1:2858:U:C6	3.04	0.44
29:D1:2986:U:H2'	29:D1:2987:A:H5'	1.99	0.44
29:D1:3141:A:H2	29:D1:3144:G:OP2	2.00	0.44
29:D1:3161:C:C5	29:D1:3161:C:OP2	2.71	0.44
29:D1:3191:G:C6	29:D1:3192:U:N3	2.85	0.44
29:D1:3224:G:C6	29:D1:3225:C:C5	3.05	0.44
29:D1:3252:G:H2'	29:D1:3253:G:H8	1.79	0.44
29:D1:3271:G:N2	29:D1:3272:C:OP1	2.50	0.44
29:D1:3296:A:N3	29:D1:3297:U:H1'	2.32	0.44
29:D1:3384:U:N3	29:D1:3385:U:C4	2.85	0.44
30:D2:14:U:O2'	30:D2:15:C:O5'	2.35	0.44
30:D2:19:C:H2'	30:D2:20:A:C8	2.52	0.44
30:D2:24:A:C4	30:D2:25:G:N7	2.85	0.44
30:D2:82:G:C4	30:D2:99:G:N2	2.85	0.44
30:D2:121:U:H3'	36:DE:263:GLU:O	2.17	0.44
31:D3:97:A:H2'	31:D3:98:U:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:128:LYS:HA	34:DC:129:ALA:O	2.17	0.44
34:DC:323:MET:O	34:DC:324:VAL:C	2.60	0.44
36:DE:43:LYS:HA	49:DT:70:SER:N	2.32	0.44
36:DE:257:GLU:C	36:DE:259:LYS:N	2.75	0.44
36:DE:264:GLN:HA	36:DE:265:TYR:C	2.42	0.44
37:DF:132:ALA:O	37:DF:133:GLU:C	2.59	0.44
37:DF:150:LYS:C	37:DF:152:THR:H	2.25	0.44
42:DK:79:ILE:C	42:DK:81:GLU:N	2.74	0.44
44:DO:157:LYS:O	44:DO:159:ARG:N	2.50	0.44
44:DO:160:GLU:O	44:DO:161:ALA:CB	2.64	0.44
49:DT:11:THR:O	49:DT:13:TYR:N	2.50	0.44
50:DU:105:PRO:C	50:DU:107:GLY:N	2.73	0.44
57:Db:80:LYS:O	57:Db:83:GLU:CB	2.65	0.44
61:Df:73:GLU:CB	61:Df:81:ALA:HA	2.48	0.44
1:A1:4:C:O2	1:A1:4:C:C2'	2.66	0.44
1:A1:55:A:O2'	1:A1:56:U:OP1	2.36	0.44
1:A1:61:A:N3	1:A1:61:A:C2'	2.75	0.44
1:A1:209:U:H3'	1:A1:210:A:H8	1.82	0.44
1:A1:270:C:H4'	1:A1:270:C:OP1	2.17	0.44
1:A1:388:G:C2	1:A1:389:G:N7	2.85	0.44
1:A1:618:U:O2'	1:A1:619:A:H5"	2.17	0.44
1:A1:636:A:C2	1:A1:861:U:O2	2.70	0.44
1:A1:649:U:O2'	1:A1:650:U:P	2.75	0.44
1:A1:650:U:H2'	1:A1:651:G:C5'	2.22	0.44
1:A1:838:G:C2	1:A1:839:U:C6	3.05	0.44
1:A1:935:U:H2'	1:A1:936:G:C8	2.50	0.44
1:A1:1106:U:H2'	1:A1:1107:G:H5'	1.99	0.44
1:A1:1141:G:C2	1:A1:1142:A:C5	3.05	0.44
1:A1:1164:G:O2'	1:A1:1165:G:H5'	2.18	0.44
1:A1:1186:U:O4'	1:A1:1208:A:C2	2.70	0.44
1:A1:1201:G:N7	1:A1:1202:A:N3	2.64	0.44
1:A1:1372:U:O2	1:A1:1373:C:H1'	2.17	0.44
1:A1:1494:C:H2'	1:A1:1495:C:H6	1.82	0.44
1:A1:1569:A:C2	1:A1:1570:A:C8	3.06	0.44
1:A1:1632:C:C2'	1:A1:1633:A:H5"	2.48	0.44
2:AA:25:GLY:O	2:AA:26:ALA:CB	2.65	0.44
2:AA:132:ALA:O	2:AA:136:ALA:N	2.51	0.44
3:AB:163:GLY:HA3	3:AB:203:LYS:N	2.32	0.44
3:AB:219:GLY:C	3:AB:221:THR:N	2.75	0.44
5:AD:118:LEU:O	5:AD:119:ASP:C	2.60	0.44
5:AD:182:ALA:C	5:AD:184:PHE:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:53:ARG:HA	6:AE:56:ALA:HB3	1.98	0.44
10:AI:11:VAL:O	10:AI:13:LYS:N	2.47	0.44
12:AK:20:TYR:O	12:AK:21:TYR:CB	2.66	0.44
16:AO:52:TYR:CB	23:Ab:5:UNK:O	2.66	0.44
27:Af:10:UNK:O	27:Af:14:UNK:N	2.51	0.44
29:B1:158:G:C2'	29:B1:159:A:H4'	2.47	0.44
29:B1:176:G:N3	29:B1:177:U:C6	2.86	0.44
29:B1:247:C:C3'	29:B1:248:U:H4'	2.47	0.44
29:B1:317:A:O2'	29:B1:318:A:O5'	2.29	0.44
29:B1:328:U:H2'	29:B1:329:U:H3	1.82	0.44
29:B1:335:G:N3	29:B1:335:G:H2'	2.32	0.44
29:B1:361:A:H5"	59:Bd:35:SER:CB	2.48	0.44
29:B1:371:G:N1	29:B1:373:A:H3'	2.32	0.44
29:B1:532:A:H3'	29:B1:533:A:N7	2.33	0.44
29:B1:540:U:H2'	29:B1:541:U:H6	1.78	0.44
29:B1:542:G:C4	29:B1:543:C:C5	3.06	0.44
29:B1:573:C:C4	29:B1:574:U:O4	2.70	0.44
29:B1:596:C:O2	29:B1:596:C:H5"	2.18	0.44
29:B1:645:A:C6	29:B1:649:A:N7	2.85	0.44
29:B1:699:A:C6	29:B1:700:C:N3	2.86	0.44
29:B1:934:G:C6	29:B1:935:U:C4	3.06	0.44
29:B1:1129:A:C2'	29:B1:1130:A:C5'	2.94	0.44
29:B1:1212:A:C2	29:B1:1213:G:N9	2.85	0.44
29:B1:1234:G:C3'	29:B1:1235:U:C5'	2.92	0.44
29:B1:1275:C:O2	29:B1:1275:C:H2'	2.16	0.44
29:B1:1452:A:C4	29:B1:2347:U:H4'	2.52	0.44
29:B1:1785:U:O2'	29:B1:1786:G:P	2.76	0.44
29:B1:1804:A:C4	29:B1:1805:C:C5	3.05	0.44
29:B1:1844:C:C4	29:B1:1845:G:N7	2.85	0.44
29:B1:2150:G:C3'	29:B1:2151:C:C5'	2.96	0.44
29:B1:2173:U:C5	29:B1:2174:G:C5	3.05	0.44
29:B1:2186:U:H2'	29:B1:2187:G:O5'	2.18	0.44
29:B1:2218:G:C5	29:B1:2228:A:C2	3.06	0.44
29:B1:2258:U:H3'	29:B1:2259:A:C8	2.50	0.44
29:B1:2297:U:O2	29:B1:2299:A:C5	2.70	0.44
29:B1:2328:U:H2'	29:B1:2329:C:H6	1.82	0.44
29:B1:2376:G:C2	29:B1:2377:G:C2	3.05	0.44
29:B1:2395:G:H8	29:B1:2946:A:H61	1.55	0.44
29:B1:2414:G:H2'	29:B1:2415:C:C6	2.52	0.44
29:B1:2515:A:C2'	29:B1:2516:U:H5'	2.47	0.44
29:B1:3000:A:HO2'	29:B1:3001:C:H6	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3119:U:H2'	29:B1:3120:C:C5'	2.45	0.44
29:B1:3144:G:OP1	29:B1:3145:C:OP2	2.36	0.44
29:B1:3177:G:O6	29:B1:3210:A:N6	2.50	0.44
29:B1:3197:G:H3'	29:B1:3197:G:N3	2.32	0.44
29:B1:3207:U:O4'	29:B1:3209:A:C8	2.71	0.44
29:B1:3211:C:OP1	29:B1:3211:C:H4'	2.17	0.44
29:B1:3218:A:C4'	29:B1:3220:G:C8	2.95	0.44
29:B1:3221:C:C4	29:B1:3222:U:C5	3.04	0.44
29:B1:3363:U:C5'	29:B1:3364:C:OP2	2.61	0.44
29:B1:3374:U:O2'	29:B1:3375:A:O5'	2.35	0.44
30:B2:90:U:H2'	30:B2:91:G:O4'	2.17	0.44
31:B3:41:A:H3'	31:B3:42:G:H8	1.83	0.44
31:B3:96:A:C3'	31:B3:97:A:H5"	2.39	0.44
31:B3:118:C:O2	31:B3:118:C:C2'	2.66	0.44
34:BC:159:ARG:CB	34:BC:180:GLU:O	2.66	0.44
36:BE:196:ARG:O	36:BE:199:ILE:N	2.50	0.44
38:BG:165:ASP:C	38:BG:167:ALA:H	2.25	0.44
40:BI:161:LEU:C	40:BI:163:GLN:N	2.72	0.44
42:BK:133:ARG:H	42:BK:155:THR:CA	2.31	0.44
44:BO:107:GLY:O	44:BO:108:ARG:C	2.61	0.44
45:BP:77:SER:C	45:BP:79:ILE:H	2.25	0.44
45:BP:140:LYS:C	45:BP:142:SER:N	2.72	0.44
47:BR:148:GLU:HA	47:BR:149:ALA:HA	1.36	0.44
51:BV:10:GLY:O	51:BV:11:ALA:C	2.59	0.44
1:C1:80:A:H5'	1:C1:81:G:OP2	2.17	0.44
1:C1:273:G:C4	1:C1:274:G:C8	3.06	0.44
1:C1:434:G:H21	1:C1:437:A:H2	1.66	0.44
1:C1:605:A:N7	1:C1:606:A:C5	2.85	0.44
1:C1:635:A:C4	1:C1:863:A:C5	3.05	0.44
1:C1:640:U:C4	1:C1:641:G:C6	3.05	0.44
1:C1:826:U:H2'	1:C1:827:C:C5	2.52	0.44
1:C1:826:U:O2	1:C1:847:A:C2	2.70	0.44
1:C1:896:U:H2'	1:C1:897:C:O4'	2.17	0.44
1:C1:1021:C:C4	1:C1:1022:C:N3	2.85	0.44
1:C1:1046:G:O6	74:C1:1905:OHX:N1	2.51	0.44
1:C1:1058:U:C2	1:C1:1060:U:OP2	2.70	0.44
1:C1:1101:G:C2'	1:C1:1102:G:H5'	2.47	0.44
1:C1:1201:G:C2'	1:C1:1202:A:H4'	2.12	0.44
1:C1:1353:U:H3	1:C1:1371:A:N6	2.15	0.44
1:C1:1558:U:H2'	1:C1:1559:A:H2	1.75	0.44
1:C1:1604:U:H3'	1:C1:1605:G:C5'	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1662:G:H2'	1:C1:1663:G:C8	2.53	0.44
1:C1:1734:U:H5"	1:C1:1735:U:OP2	2.18	0.44
1:C1:1771:U:N3	1:C1:1772:C:C5	2.85	0.44
2:CA:96:THR:O	2:CA:97:PRO:O	2.36	0.44
3:CB:153:SER:O	3:CB:170:ILE:HA	2.18	0.44
4:CC:7:LYS:O	4:CC:8:LYS:C	2.60	0.44
5:CD:166:ARG:C	5:CD:168:VAL:N	2.74	0.44
10:CI:10:ARG:O	10:CI:11:VAL:CB	2.65	0.44
11:CJ:80:ALA:C	11:CJ:82:ARG:N	2.72	0.44
11:CJ:92:TYR:CB	11:CJ:93:HIS:O	2.66	0.44
12:CK:29:GLN:C	12:CK:31:ASN:N	2.76	0.44
13:CL:53:ASP:O	13:CL:56:LYS:N	2.51	0.44
13:CL:124:GLY:O	13:CL:125:ILE:C	2.60	0.44
14:CM:137:ALA:O	14:CM:140:LEU:N	2.51	0.44
15:CN:54:GLY:O	15:CN:91:ILE:HA	2.18	0.44
20:CS:37:ASN:CB	20:CS:38:ILE:CA	2.90	0.44
29:D1:32:U:H3	29:D1:52:A:H61	1.65	0.44
29:D1:54:C:C2'	29:D1:55:G:O5'	2.65	0.44
29:D1:171:G:H2'	29:D1:172:G:O5'	2.16	0.44
29:D1:184:U:H2'	29:D1:185:C:H6	1.82	0.44
29:D1:220:G:H8	29:D1:220:G:H5"	1.82	0.44
29:D1:391:A:H2'	29:D1:392:G:OP1	2.17	0.44
29:D1:505:G:C8	29:D1:506:U:C6	3.06	0.44
29:D1:565:U:C5	29:D1:565:U:OP2	2.71	0.44
29:D1:642:U:H5"	29:D1:643:U:OP2	2.18	0.44
29:D1:725:G:C2	29:D1:726:G:O4'	2.70	0.44
29:D1:790:U:H4'	35:DD:112:LYS:O	2.17	0.44
29:D1:809:G:C4	29:D1:810:A:C8	3.06	0.44
29:D1:814:U:C2'	29:D1:815:G:O5'	2.65	0.44
29:D1:828:A:H5"	29:D1:829:U:P	2.57	0.44
29:D1:859:G:C2	29:D1:861:C:C6	3.04	0.44
29:D1:932:U:C4	29:D1:934:G:H1'	2.52	0.44
29:D1:952:A:C2'	29:D1:953:G:C5'	2.89	0.44
29:D1:1062:A:P	29:D1:1063:G:O6	2.75	0.44
29:D1:1253:U:O4	29:D1:1264:G:OP1	2.36	0.44
29:D1:1457:U:C4	29:D1:1476:G:C2	3.06	0.44
29:D1:1485:G:O6	74:D1:3589:OHX:N1	2.51	0.44
29:D1:1528:G:N3	29:D1:1529:A:C8	2.85	0.44
29:D1:1532:C:H2'	29:D1:1533:U:N1	2.31	0.44
29:D1:1623:G:C8	74:D1:3559:OHX:N1	2.86	0.44
29:D1:1794:G:H5"	33:DB:186:PHE:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1906:G:N3	29:D1:1908:A:N6	2.65	0.44
29:D1:2094:C:N4	29:D1:2095:G:H21	2.16	0.44
29:D1:2145:A:N3	29:D1:2145:A:H2'	2.32	0.44
29:D1:2151:C:O2'	29:D1:2243:A:C6	2.68	0.44
29:D1:2151:C:H1'	29:D1:2313:A:N1	2.32	0.44
29:D1:2177:G:HO2'	29:D1:2178:A:P	2.40	0.44
29:D1:2261:G:O6	74:D1:3415:OHX:N5	2.50	0.44
29:D1:2374:C:C4	29:D1:2941:A:C2	3.06	0.44
29:D1:2394:G:H2'	29:D1:2395:G:O4'	2.17	0.44
29:D1:2516:U:H6	29:D1:2516:U:C5'	2.30	0.44
29:D1:2655:U:C4'	29:D1:2656:A:H5'	2.46	0.44
29:D1:2910:A:H2'	29:D1:2911:A:OP2	2.17	0.44
29:D1:2910:A:N6	74:D1:3419:OHX:N4	2.66	0.44
29:D1:2933:A:C6	29:D1:2934:A:N1	2.85	0.44
29:D1:2990:G:C2'	29:D1:2991:A:H5'	2.48	0.44
29:D1:3013:U:O2	29:D1:3013:U:H2'	2.16	0.44
29:D1:3057:U:O2	29:D1:3057:U:C5'	2.66	0.44
29:D1:3070:A:C4	29:D1:3071:U:C5	3.06	0.44
29:D1:3152:U:H4'	29:D1:3294:A:O4'	2.18	0.44
29:D1:3153:U:C5'	29:D1:3293:U:C6	3.00	0.44
29:D1:3248:C:H2'	29:D1:3249:C:O4'	2.17	0.44
29:D1:3371:G:C6	29:D1:3372:A:C5	3.06	0.44
29:D1:3392:U:C5'	29:D1:3392:U:H6	2.31	0.44
30:D2:3:U:O2	30:D2:4:U:C6	2.70	0.44
30:D2:5:G:C2'	30:D2:6:C:H5"	2.47	0.44
30:D2:44:C:C4	30:D2:45:A:C8	3.04	0.44
30:D2:112:G:O5'	74:D2:207:OHX:N6	2.49	0.44
31:D3:37:A:H61	31:D3:104:A:C2'	2.15	0.44
31:D3:41:A:H3'	31:D3:42:G:H8	1.83	0.44
31:D3:131:A:C2	31:D3:132:G:N7	2.86	0.44
35:DD:115:HIS:C	35:DD:117:GLU:H	2.26	0.44
36:DE:257:GLU:C	36:DE:259:LYS:H	2.26	0.44
37:DF:43:LEU:O	37:DF:44:ALA:C	2.59	0.44
39:DH:188:THR:C	39:DH:190:VAL:H	2.26	0.44
43:DN:78:THR:C	43:DN:80:THR:N	2.75	0.44
44:DO:136:ASP:O	44:DO:138:GLN:N	2.50	0.44
46:DQ:82:ARG:O	46:DQ:83:TRP:CB	2.65	0.44
48:DS:135:LYS:O	48:DS:136:ARG:C	2.61	0.44
51:DV:47:ARG:C	51:DV:49:ILE:H	2.25	0.44
51:DV:58:HIS:HA	51:DV:59:HIS:HA	1.61	0.44
52:DW:66:PRO:O	52:DW:68:THR:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DW:83:VAL:O	52:DW:84:PHE:O	2.35	0.44
54:DY:6:THR:C	54:DY:8:THR:N	2.73	0.44
57:Db:97:ALA:O	57:Db:98:HIS:C	2.60	0.44
1:A1:139:C:C4	1:A1:176:C:C2	3.05	0.44
1:A1:195:G:H1'	1:A1:196:G:P	2.57	0.44
1:A1:202:A:H3'	1:A1:202:A:C8	2.52	0.44
1:A1:211:U:H6	1:A1:211:U:H5"	1.82	0.44
1:A1:224:C:O2'	1:A1:225:A:C8	2.69	0.44
1:A1:328:A:N3	1:A1:329:G:C8	2.86	0.44
1:A1:339:C:C2	1:A1:340:U:C6	3.06	0.44
1:A1:450:U:C4	1:A1:451:A:N6	2.81	0.44
1:A1:473:A:H3'	1:A1:474:A:H8	1.82	0.44
1:A1:490:C:H5"	1:A1:491:C:OP2	2.17	0.44
1:A1:525:A:OP1	1:A1:527:A:H2	2.00	0.44
1:A1:569:C:C2'	1:A1:570:A:O5'	2.65	0.44
1:A1:624:G:H1'	1:A1:1027:A:C2	2.51	0.44
1:A1:812:A:C2	1:A1:858:G:O6	2.71	0.44
1:A1:831:U:H5'	1:A1:832:U:P	2.57	0.44
1:A1:895:G:N2	1:A1:917:U:N3	2.64	0.44
1:A1:1046:G:C8	1:A1:1073:G:N2	2.85	0.44
1:A1:1063:U:H2'	1:A1:1064:G:H8	1.82	0.44
1:A1:1167:G:C6	1:A1:1168:U:O4	2.70	0.44
1:A1:1255:G:C4'	1:A1:1256:A:OP1	2.44	0.44
1:A1:1348:A:H3'	1:A1:1349:G:H5"	1.99	0.44
1:A1:1348:A:C3'	1:A1:1349:G:C5'	2.94	0.44
1:A1:1524:A:N3	1:A1:1590:G:O2'	2.47	0.44
1:A1:1532:U:H2'	1:A1:1533:C:C6	2.52	0.44
1:A1:1600:A:C8	1:A1:1602:C:C5	3.05	0.44
1:A1:1693:A:N3	1:A1:1694:A:N7	2.65	0.44
1:A1:1720:G:H5"	74:A1:1950:OHX:N1	2.32	0.44
1:A1:1756:A:N6	74:A1:1901:OHX:N2	2.49	0.44
2:AA:106:SER:O	2:AA:108:THR:N	2.50	0.44
3:AB:118:ALA:HB2	3:AB:124:ALA:CA	2.46	0.44
4:AC:7:LYS:O	4:AC:8:LYS:O	2.35	0.44
5:AD:108:LEU:O	5:AD:110:ALA:N	2.42	0.44
6:AE:66:ASP:O	6:AE:68:LYS:N	2.47	0.44
8:AG:51:GLY:HA2	8:AG:52:VAL:C	2.28	0.44
9:AH:8:ARG:CB	9:AH:9:ASP:HA	2.46	0.44
11:AJ:69:VAL:O	11:AJ:70:THR:CB	2.65	0.44
14:AM:58:ALA:O	14:AM:62:ALA:CB	2.59	0.44
14:AM:129:GLN:O	14:AM:133:ASP:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:187:GLN:O	21:AT:189:GLU:N	2.51	0.44
28:Ah:13:UNK:O	28:Ah:16:UNK:N	2.51	0.44
29:B1:44:U:H5"	29:B1:45:A:OP2	2.17	0.44
29:B1:189:G:N3	29:B1:191:U:O4	2.50	0.44
29:B1:279:U:OP1	74:B1:3536:OHX:N1	2.50	0.44
29:B1:301:G:H2'	29:B1:302:U:O5'	2.18	0.44
29:B1:355:A:C6	29:B1:365:A:C8	3.05	0.44
29:B1:421:G:C8	29:B1:421:G:C4'	3.00	0.44
29:B1:428:A:H5'	29:B1:428:A:H8	1.83	0.44
29:B1:528:U:N3	29:B1:564:G:N1	2.65	0.44
29:B1:790:U:H2'	29:B1:791:A:O4'	2.18	0.44
29:B1:945:C:C3'	29:B1:946:U:H6	2.30	0.44
29:B1:1018:G:C5	74:B1:3529:OHX:N1	2.86	0.44
29:B1:1180:A:C2	29:B1:1182:A:C5	3.05	0.44
29:B1:1212:A:C3'	29:B1:1213:G:C5'	2.92	0.44
29:B1:1298:C:N3	29:B1:1299:U:C5	2.85	0.44
29:B1:1424:C:C4	29:B1:1425:U:C5	3.05	0.44
29:B1:1448:U:H5	29:B1:2355:G:H21	1.61	0.44
29:B1:1454:A:N1	29:B1:1484:U:O4	2.51	0.44
29:B1:1465:A:C2'	29:B1:1466:G:H5'	2.47	0.44
29:B1:1509:A:N6	29:B1:1510:G:N1	2.65	0.44
29:B1:1515:A:H2'	29:B1:1516:C:C6	2.52	0.44
29:B1:1524:A:C5	29:B1:1527:C:C4	3.06	0.44
29:B1:1528:G:C4	29:B1:1529:A:N7	2.85	0.44
29:B1:1599:G:N1	29:B1:1600:U:O2	2.51	0.44
29:B1:1610:G:H2'	29:B1:1611:G:C8	2.52	0.44
29:B1:1734:G:C5	29:B1:1735:G:N7	2.85	0.44
29:B1:1916:U:C2	29:B1:1917:C:C5	3.06	0.44
29:B1:1922:A:H2'	29:B1:1923:C:C5'	2.47	0.44
29:B1:2117:A:C2	29:B1:2118:C:H1'	2.52	0.44
29:B1:2140:U:C5	29:B1:2956:A:C2	3.05	0.44
29:B1:2148:U:H2'	29:B1:2149:A:C4	2.51	0.44
29:B1:2194:G:H2'	29:B1:2195:C:H5'	1.97	0.44
29:B1:2240:G:H2'	29:B1:2241:U:C5'	2.47	0.44
29:B1:2459:A:N6	29:B1:2486:A:H2	2.15	0.44
29:B1:2513:U:C5	29:B1:2592:G:N3	2.84	0.44
29:B1:2594:C:C6	29:B1:2595:A:C8	3.05	0.44
29:B1:2655:U:O4'	29:B1:2656:A:N3	2.51	0.44
29:B1:2661:G:N3	29:B1:2662:G:C8	2.85	0.44
29:B1:2725:U:O4	29:B1:2727:A:N3	2.49	0.44
29:B1:2785:A:N6	29:B1:2786:G:C5	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2822:U:C2'	29:B1:2823:G:O5'	2.66	0.44
29:B1:3196:U:H2'	29:B1:3197:G:C2	2.51	0.44
29:B1:3200:G:H2'	29:B1:3201:C:C6	2.52	0.44
29:B1:3205:G:C2	43:BN:89:ALA:HB1	2.52	0.44
29:B1:3209:A:C4	29:B1:3210:A:C5	3.04	0.44
29:B1:3250:U:C2'	29:B1:3251:U:O5'	2.66	0.44
30:B2:9:C:C5	30:B2:10:C:C1'	3.01	0.44
31:B3:19:C:N4	31:B3:20:U:O4	2.51	0.44
31:B3:27:U:H2'	31:B3:28:C:O4'	2.18	0.44
34:BC:90:VAL:CB	34:BC:103:THR:N	2.80	0.44
34:BC:104:THR:O	34:BC:105:VAL:O	2.36	0.44
34:BC:269:GLN:O	34:BC:270:ARG:O	2.35	0.44
39:BH:94:PHE:O	39:BH:96:LYS:N	2.45	0.44
39:BH:150:LEU:O	39:BH:151:VAL:C	2.61	0.44
41:BJ:66:GLU:O	41:BJ:68:ALA:N	2.51	0.44
41:BJ:83:ASP:O	41:BJ:84:ALA:HB2	2.17	0.44
43:BN:78:THR:C	43:BN:80:THR:N	2.75	0.44
45:BP:18:ARG:O	45:BP:19:LEU:C	2.61	0.44
46:BQ:30:ARG:O	46:BQ:32:THR:N	2.51	0.44
47:BR:49:LEU:C	47:BR:51:ALA:N	2.74	0.44
48:BS:124:TYR:HA	48:BS:127:SER:CB	2.48	0.44
61:Bf:45:ARG:O	61:Bf:46:LYS:CB	2.65	0.44
1:C1:21:U:O2	1:C1:605:A:H2	2.01	0.44
1:C1:60:U:C6	1:C1:453:U:H2'	2.52	0.44
1:C1:72:A:N1	1:C1:81:G:O6	2.51	0.44
1:C1:109:G:O2'	1:C1:796:A:N1	2.43	0.44
1:C1:125:U:C5'	1:C1:125:U:C6	3.00	0.44
1:C1:210:A:N3	1:C1:211:U:C6	2.86	0.44
1:C1:377:G:O2'	1:C1:378:A:P	2.76	0.44
1:C1:699:U:O2	1:C1:740:A:C2	2.70	0.44
1:C1:713:A:H3'	1:C1:714:G:H5"	1.98	0.44
1:C1:762:A:H2'	1:C1:762:A:N3	2.31	0.44
1:C1:894:U:O4	1:C1:915:A:OP1	2.35	0.44
1:C1:985:G:C6	1:C1:986:G:C5	3.04	0.44
1:C1:988:A:C2	1:C1:989:U:H1'	2.52	0.44
1:C1:989:U:C2	1:C1:990:C:C6	3.05	0.44
1:C1:1056:U:C4	1:C1:1063:U:N3	2.86	0.44
1:C1:1073:G:C5'	1:C1:1073:G:H8	2.30	0.44
1:C1:1149:G:N2	1:C1:1151:A:N6	2.65	0.44
1:C1:1176:G:C5	1:C1:1177:C:C5	3.05	0.44
1:C1:1201:G:OP2	1:C1:1201:G:C5	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1234:A:H5”	1:C1:1235:C:OP1	2.18	0.44
1:C1:1256:A:H5”	1:C1:1257:U:O5’	2.17	0.44
1:C1:1536:G:C6	1:C1:1538:U:O2	2.70	0.44
1:C1:1575:G:C5’	1:C1:1576:A:OP2	2.66	0.44
1:C1:1640:C:C6	1:C1:1640:C:C3’	3.01	0.44
1:C1:1652:C:O2	1:C1:1652:C:C2’	2.65	0.44
1:C1:1719:A:C2’	1:C1:1720:G:C5	2.96	0.44
2:CA:25:GLY:O	2:CA:26:ALA:CB	2.66	0.44
3:CB:46:LYS:O	3:CB:47:ALA:C	2.58	0.44
4:CC:166:ASP:O	4:CC:167:PHE:CB	2.65	0.44
5:CD:93:LEU:O	5:CD:96:SER:N	2.28	0.44
6:CE:103:ASP:O	6:CE:105:LEU:N	2.50	0.44
9:CH:8:ARG:CB	9:CH:9:ASP:HA	2.46	0.44
15:CN:40:ASN:O	15:CN:41:ILE:CB	2.65	0.44
16:CO:85:ASP:O	16:CO:86:ILE:C	2.60	0.44
16:CO:106:THR:HA	16:CO:122:SER:O	2.17	0.44
21:CT:216:LYS:O	21:CT:218:GLY:N	2.51	0.44
29:D1:12:A:OP2	29:D1:12:A:C8	2.62	0.44
29:D1:77:A:C2	29:D1:78:U:N1	2.86	0.44
29:D1:96:G:N2	29:D1:97:U:C1’	2.72	0.44
29:D1:283:G:C8	29:D1:285:A:C8	3.05	0.44
29:D1:303:G:N2	29:D1:2778:G:C8	2.85	0.44
29:D1:318:A:OP2	29:D1:318:A:C8	2.63	0.44
29:D1:365:A:C2	29:D1:366:A:N9	2.86	0.44
29:D1:381:U:H3	29:D1:387:A:N6	2.15	0.44
29:D1:512:U:O2	29:D1:579:G:C2	2.69	0.44
29:D1:517:G:C8	29:D1:517:G:P	3.06	0.44
29:D1:532:A:C3’	29:D1:533:A:H8	2.29	0.44
29:D1:542:G:C4	29:D1:543:C:C5	3.05	0.44
29:D1:561:C:C2’	29:D1:562:C:OP2	2.66	0.44
29:D1:612:U:C2	29:D1:613:G:C5	3.06	0.44
29:D1:632:G:C8	29:D1:632:G:C3’	3.01	0.44
29:D1:796:U:C2	29:D1:797:U:C5	3.05	0.44
29:D1:1106:G:C4	29:D1:1107:C:C6	3.06	0.44
29:D1:1129:A:C5	29:D1:1130:A:C6	3.05	0.44
29:D1:1180:A:O2’	29:D1:1181:U:H5’	2.18	0.44
29:D1:1217:A:H5’	29:D1:1218:U:OP2	2.17	0.44
29:D1:1273:A:N7	29:D1:1274:A:C8	2.85	0.44
29:D1:1276:U:O2’	29:D1:1277:C:H5’	2.17	0.44
29:D1:1380:G:N3	29:D1:1380:G:C2’	2.80	0.44
29:D1:1453:A:H2’	29:D1:1878:G:H1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1619:A:C2	29:D1:1826:C:N3	2.85	0.44
29:D1:1654:A:O2'	29:D1:1655:G:C4'	2.65	0.44
29:D1:1687:U:O2	29:D1:3069:G:C2	2.71	0.44
29:D1:1739:U:C6	29:D1:1739:U:C3'	3.00	0.44
29:D1:1753:G:C4	29:D1:1754:G:C8	3.06	0.44
29:D1:1779:C:H5'	29:D1:1780:G:O4'	2.18	0.44
29:D1:2243:A:C6	29:D1:2313:A:N7	2.85	0.44
29:D1:2302:G:C6	29:D1:2303:A:C5	3.05	0.44
29:D1:2341:A:H4'	29:D1:3090:U:O2'	2.17	0.44
29:D1:2521:U:H2'	29:D1:2522:G:O5'	2.17	0.44
29:D1:2720:G:C5	29:D1:2721:A:N7	2.86	0.44
29:D1:2723:U:O4	74:D1:3585:OHX:N3	2.51	0.44
29:D1:2780:A:C2	29:D1:2781:U:N3	2.86	0.44
29:D1:2849:C:O2	29:D1:2849:C:C2'	2.66	0.44
29:D1:2875:U:O2	29:D1:2875:U:C2'	2.60	0.44
29:D1:3070:A:C4	29:D1:3071:U:C6	3.05	0.44
29:D1:3306:U:O2	29:D1:3306:U:O4'	2.33	0.44
29:D1:3316:A:N6	29:D1:3387:U:C4	2.85	0.44
29:D1:3342:A:H2'	29:D1:3343:G:N3	2.33	0.44
30:D2:28:C:C4	30:D2:29:C:C2	3.06	0.44
30:D2:42:A:C2	30:D2:47:C:C5	3.03	0.44
31:D3:72:A:O3'	31:D3:73:U:H4'	2.18	0.44
31:D3:104:A:C8	31:D3:105:A:C8	3.05	0.44
35:DD:8:VAL:N	35:DD:18:ASN:O	2.50	0.44
35:DD:190:GLY:O	35:DD:192:GLY:N	2.50	0.44
36:DE:69:ILE:O	36:DE:70:THR:C	2.59	0.44
73:DM:11:TYR:O	73:DM:13:ALA:N	2.45	0.44
44:DO:74:PRO:O	44:DO:75:VAL:CB	2.65	0.44
45:DP:92:THR:O	45:DP:95:GLY:N	2.50	0.44
48:DS:101:VAL:O	48:DS:102:LEU:C	2.59	0.44
48:DS:151:ARG:O	48:DS:154:ALA:N	2.50	0.44
54:DY:49:HIS:O	54:DY:51:GLY:N	2.51	0.44
58:Dc:16:GLN:H	58:Dc:18:ALA:H	1.66	0.44
1:A1:80:A:H3'	1:A1:81:G:C8	2.48	0.44
1:A1:104:A:N1	1:A1:106:U:H1'	2.33	0.44
1:A1:202:A:H3'	1:A1:202:A:H8	1.82	0.44
1:A1:237:C:O2'	1:A1:238:U:P	2.76	0.44
1:A1:488:G:O2'	1:A1:489:C:P	2.76	0.44
1:A1:585:A:H2'	1:A1:586:G:C8	2.52	0.44
1:A1:745:U:C2'	1:A1:746:A:H5'	2.47	0.44
1:A1:837:G:N1	1:A1:838:G:C5	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:850:A:O2'	1:A1:851:U:H5'	2.17	0.44
1:A1:940:A:H2'	1:A1:941:A:C8	2.52	0.44
1:A1:955:A:H4'	1:A1:1074:G:HO2'	1.77	0.44
1:A1:1030:A:C3'	1:A1:1031:U:H5'	2.39	0.44
1:A1:1179:G:H21	1:A1:1460:A:N6	2.15	0.44
1:A1:1205:C:H6	1:A1:1205:C:H2'	1.50	0.44
1:A1:1234:A:H5"	1:A1:1235:C:OP1	2.17	0.44
1:A1:1310:U:H2'	1:A1:1311:U:C6	2.44	0.44
1:A1:1381:U:C5	1:A1:1382:A:N7	2.85	0.44
1:A1:1392:U:C2	1:A1:1393:C:C5	3.05	0.44
1:A1:1393:C:H2'	1:A1:1394:G:H8	1.83	0.44
1:A1:1403:C:O2'	1:A1:1404:C:H5'	2.18	0.44
1:A1:1550:A:C2'	1:A1:1551:U:H5'	2.48	0.44
1:A1:1553:G:H1'	1:A1:1597:A:H2	1.83	0.44
1:A1:1575:G:C2	1:A1:1576:A:N9	2.86	0.44
1:A1:1716:C:C2	1:A1:1717:G:C8	3.05	0.44
1:A1:1798:U:H5'	1:A1:1799:U:OP2	2.17	0.44
2:AA:65:ALA:O	2:AA:67:ILE:N	2.50	0.44
2:AA:68:PRO:C	2:AA:70:PRO:N	2.73	0.44
3:AB:62:PRO:CB	3:AB:63:VAL:CB	2.95	0.44
3:AB:160:GLY:O	3:AB:161:LYS:CB	2.66	0.44
4:AC:57:ASP:C	4:AC:59:LEU:N	2.75	0.44
21:AT:96:THR:O	21:AT:97:GLY:C	2.61	0.44
23:Ab:132:UNK:HA	23:Ab:133:UNK:CB	2.48	0.44
29:B1:54:C:C2'	29:B1:55:G:O5'	2.66	0.44
29:B1:78:U:H3	29:B1:325:A:N6	2.13	0.44
29:B1:91:G:C8	29:B1:93:C:C6	3.05	0.44
29:B1:117:U:C4	29:B1:118:U:H5	2.36	0.44
29:B1:257:U:C2'	29:B1:258:G:H8	2.20	0.44
29:B1:311:C:C5	29:B1:312:C:C5	3.06	0.44
29:B1:423:A:C6	29:B1:424:G:N1	2.85	0.44
29:B1:424:G:O5'	29:B1:424:G:H8	2.00	0.44
29:B1:440:A:H5'	29:B1:441:U:C4'	2.48	0.44
29:B1:520:U:C1'	29:B1:521:A:OP2	2.66	0.44
29:B1:558:U:O2'	29:B1:558:U:O2	2.36	0.44
29:B1:578:A:H1'	37:BF:156:LYS:CB	2.48	0.44
29:B1:595:G:O6	29:B1:609:G:C4	2.69	0.44
29:B1:637:C:N3	29:B1:638:C:N4	2.65	0.44
29:B1:668:G:H2'	29:B1:669:U:O5'	2.18	0.44
29:B1:692:A:C2	29:B1:693:A:N9	2.85	0.44
29:B1:703:G:C6	29:B1:704:U:N3	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:729:C:N4	29:B1:730:C:N4	2.65	0.44
29:B1:740:G:C5	29:B1:741:U:C5	3.05	0.44
29:B1:760:G:OP2	74:B1:3479:OHX:N2	2.50	0.44
29:B1:772:U:H5	74:B1:3523:OHX:N4	2.15	0.44
29:B1:774:G:C2	29:B1:775:A:C8	3.05	0.44
29:B1:818:C:C5	29:B1:819:U:C4	3.06	0.44
29:B1:955:U:C2	29:B1:956:U:C6	3.05	0.44
29:B1:995:U:C4	29:B1:2637:A:C5	3.06	0.44
29:B1:995:U:O2'	29:B1:996:A:P	2.76	0.44
29:B1:1104:G:C2'	29:B1:1105:A:O5'	2.63	0.44
29:B1:1168:U:OP1	38:BG:212:GLY:O	2.36	0.44
29:B1:1317:A:N7	29:B1:1319:G:N7	2.66	0.44
29:B1:1394:A:O2'	29:B1:1395:G:H5'	2.17	0.44
29:B1:1423:C:C2	29:B1:1424:C:C5	3.05	0.44
29:B1:1573:G:C8	29:B1:1574:C:C6	3.06	0.44
29:B1:1587:A:C2	29:B1:1590:G:C8	3.06	0.44
29:B1:1654:A:C2'	29:B1:1655:G:O4'	2.65	0.44
29:B1:1787:A:N6	29:B1:1788:C:N4	2.66	0.44
29:B1:1809:A:C2	29:B1:1810:A:H1'	2.53	0.44
29:B1:1909:A:C6	29:B1:1910:A:C4	3.06	0.44
29:B1:2111:G:H21	51:BV:49:ILE:CA	2.24	0.44
29:B1:2224:A:H3'	29:B1:2225:U:H6	1.83	0.44
29:B1:2342:U:O2'	29:B1:2343:C:C5'	2.66	0.44
29:B1:2353:G:C4	29:B1:2354:C:C5	3.02	0.44
29:B1:2419:A:C5	29:B1:2804:A:N7	2.86	0.44
29:B1:2595:A:H2'	29:B1:2596:U:H6	1.83	0.44
29:B1:2677:G:C2	29:B1:2678:A:H5'	2.53	0.44
29:B1:2888:U:C2	29:B1:2910:A:C2	3.05	0.44
29:B1:2903:A:C5	29:B1:2904:U:C5	3.05	0.44
29:B1:3050:U:H3'	29:B1:3051:U:H6	1.82	0.44
29:B1:3100:U:O2	29:B1:3101:G:C8	2.71	0.44
29:B1:3113:A:C2'	29:B1:3114:A:H5'	2.47	0.44
29:B1:3166:C:H2'	29:B1:3167:A:C8	2.52	0.44
29:B1:3234:A:C2	29:B1:3235:C:C4	3.06	0.44
29:B1:3292:A:O3'	29:B1:3293:U:O3'	2.35	0.44
29:B1:3296:A:N3	29:B1:3297:U:C6	2.86	0.44
29:B1:3309:G:N3	29:B1:3309:G:H5"	2.32	0.44
30:B2:38:U:H3	30:B2:44:C:N4	2.16	0.44
30:B2:77:G:C2'	30:B2:78:U:OP2	2.66	0.44
30:B2:80:G:H2'	30:B2:81:U:O4'	2.17	0.44
31:B3:149:A:H2'	31:B3:150:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:159:ARG:CB	34:BC:181:ILE:O	2.65	0.44
34:BC:162:VAL:O	34:BC:163:HIS:C	2.58	0.44
36:BE:87:GLY:O	36:BE:241:THR:CB	2.66	0.44
36:BE:227:LEU:HA	36:BE:228:ALA:HB3	1.98	0.44
37:BF:143:LYS:O	37:BF:144:ALA:O	2.36	0.44
38:BG:43:ILE:C	38:BG:45:LEU:N	2.71	0.44
39:BH:225:LYS:C	39:BH:227:ASP:N	2.75	0.44
40:BI:154:VAL:O	40:BI:155:SER:C	2.61	0.44
43:BN:46:ILE:H	43:BN:56:GLN:H	1.65	0.44
45:BP:11:GLY:O	45:BP:13:GLY:N	2.50	0.44
48:BS:5:ARG:O	48:BS:8:LYS:N	2.51	0.44
48:BS:66:HIS:O	48:BS:69:SER:N	2.50	0.44
54:BY:130:VAL:O	54:BY:132:LYS:N	2.42	0.44
56:Ba:32:ALA:O	56:Ba:33:VAL:C	2.59	0.44
60:Be:23:LEU:C	60:Be:24:PRO:O	2.54	0.44
1:C1:33:U:C6	1:C1:33:U:C3'	3.00	0.44
1:C1:36:C:N3	1:C1:472:U:O4	2.51	0.44
1:C1:43:A:C5	1:C1:378:A:N1	2.86	0.44
1:C1:104:A:C5	1:C1:106:U:C6	3.05	0.44
1:C1:119:A:C2'	1:C1:120:U:O5'	2.66	0.44
1:C1:243:G:N1	1:C1:251:A:C5	2.79	0.44
1:C1:275:C:C4	1:C1:276:C:N4	2.86	0.44
1:C1:353:A:H8	1:C1:353:A:O5'	2.00	0.44
1:C1:581:U:H2'	1:C1:581:U:O2	2.17	0.44
1:C1:612:U:OP1	1:C1:1100:G:N2	2.51	0.44
1:C1:706:A:N7	1:C1:733:A:C2	2.85	0.44
1:C1:743:U:HO2'	1:C1:744:U:H6	1.63	0.44
1:C1:825:U:O2	1:C1:825:U:H2'	2.17	0.44
1:C1:869:A:N7	1:C1:870:C:C5	2.85	0.44
1:C1:893:U:H2'	1:C1:893:U:O2	2.16	0.44
1:C1:968:U:H2'	1:C1:969:C:O5'	2.18	0.44
1:C1:1045:C:HO2'	1:C1:1046:G:P	2.41	0.44
1:C1:1205:C:H6	1:C1:1205:C:H2'	1.55	0.44
1:C1:1219:A:C4'	1:C1:1220:C:C5	3.01	0.44
1:C1:1340:U:C2	1:C1:1342:C:C5	3.05	0.44
1:C1:1347:U:O3'	1:C1:1348:A:C8	2.70	0.44
1:C1:1426:C:C2	1:C1:1428:G:N7	2.85	0.44
1:C1:1478:G:C2'	1:C1:1479:A:O5'	2.65	0.44
1:C1:1558:U:C5	1:C1:1559:A:N3	2.86	0.44
1:C1:1664:C:H5"	1:C1:1665:U:OP2	2.18	0.44
3:CB:101:VAL:HA	3:CB:114:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:118:ALA:CB	3:CB:124:ALA:H	2.29	0.44
3:CB:165:VAL:CA	3:CB:202:GLY:HA3	2.47	0.44
3:CB:229:LEU:O	3:CB:232:GLU:CB	2.65	0.44
8:CG:85:PRO:O	8:CG:87:ASP:N	2.51	0.44
21:CT:24:ALA:HB2	21:CT:71:CYS:O	2.18	0.44
29:D1:26:A:N1	29:D1:331:G:N7	2.66	0.44
29:D1:41:G:OP1	29:D1:42:C:OP2	2.35	0.44
29:D1:61:A:C6	29:D1:62:A:C4	3.05	0.44
29:D1:91:G:C2'	29:D1:92:G:OP2	2.65	0.44
29:D1:149:U:C6	44:DO:55:ALA:HB2	2.52	0.44
29:D1:172:G:N2	29:D1:173:G:C4	2.85	0.44
29:D1:303:G:N2	29:D1:2778:G:C5	2.86	0.44
29:D1:372:A:N6	29:D1:373:A:N1	2.65	0.44
29:D1:385:A:C4	29:D1:386:A:N7	2.85	0.44
29:D1:533:A:C2'	29:D1:534:U:C6	3.00	0.44
29:D1:534:U:OP2	29:D1:555:U:C4	2.70	0.44
29:D1:597:G:C2'	29:D1:598:A:O4'	2.65	0.44
29:D1:627:U:H2'	29:D1:628:A:H8	1.79	0.44
29:D1:652:G:H2'	29:D1:2361:A:H5"	1.98	0.44
29:D1:670:C:H2'	29:D1:671:U:C6	2.53	0.44
29:D1:697:A:C8	29:D1:698:U:H3'	2.51	0.44
29:D1:752:C:O2'	29:D1:753:C:C6	2.69	0.44
29:D1:790:U:N3	29:D1:791:A:C8	2.84	0.44
29:D1:859:G:C6	29:D1:861:C:C5	3.06	0.44
29:D1:935:U:H2'	29:D1:936:A:H8	1.81	0.44
29:D1:950:G:O5'	29:D1:950:G:C8	2.68	0.44
29:D1:1063:G:C8	29:D1:1064:A:C1'	3.01	0.44
29:D1:1076:C:H3'	29:D1:1077:U:C5	2.53	0.44
29:D1:1123:U:OP2	29:D1:1123:U:H6	2.01	0.44
29:D1:1152:G:O2'	29:D1:1153:A:C5'	2.65	0.44
29:D1:1172:G:C2'	29:D1:1173:U:O5'	2.65	0.44
29:D1:1204:A:H62	29:D1:1300:G:N2	2.11	0.44
29:D1:1275:C:C5'	29:D1:1275:C:H6	2.31	0.44
29:D1:1279:C:HO2'	29:D1:1280:C:H6	1.65	0.44
29:D1:1302:A:C2'	29:D1:2887:A:C2	3.00	0.44
29:D1:1505:C:O2	29:D1:1505:C:H2'	2.17	0.44
29:D1:1550:C:H2'	29:D1:1551:C:H5'	1.96	0.44
29:D1:1561:G:C6	29:D1:1562:C:C4	3.05	0.44
29:D1:1626:U:N3	29:D1:1627:U:C4	2.85	0.44
29:D1:1633:C:N4	29:D1:1634:G:C6	2.86	0.44
29:D1:1724:U:H2'	29:D1:1725:C:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1728:G:N7	55:DZ:85:PHE:CB	2.80	0.44
29:D1:1898:G:C5	29:D1:1899:G:C5	3.06	0.44
29:D1:1933:A:C3'	29:D1:1934:G:H5'	2.47	0.44
29:D1:2284:C:H2'	29:D1:2285:C:C2	2.53	0.44
29:D1:2413:A:O2'	29:D1:2414:G:C5'	2.65	0.44
29:D1:2843:U:H3'	29:D1:2843:U:P	2.57	0.44
29:D1:2847:A:N6	29:D1:2898:G:N3	2.64	0.44
29:D1:2949:U:C2	29:D1:2950:G:N7	2.86	0.44
29:D1:3058:U:C1'	29:D1:3059:G:O5'	2.66	0.44
29:D1:3214:U:O2'	29:D1:3218:A:C5'	2.65	0.44
29:D1:3241:G:N2	29:D1:3246:G:N2	2.65	0.44
29:D1:3291:G:O2'	29:D1:3292:A:O4'	2.30	0.44
29:D1:3294:A:C2'	29:D1:3295:A:H5'	2.47	0.44
29:D1:3377:G:C5	74:D1:3452:OHX:N6	2.85	0.44
30:D2:81:U:O2	30:D2:81:U:H2'	2.17	0.44
31:D3:1:A:C2'	31:D3:2:A:O5'	2.65	0.44
31:D3:136:G:C2	31:D3:137:C:C5	3.06	0.44
31:D3:145:U:N3	31:D3:146:U:C2	2.86	0.44
34:DC:170:PRO:CB	34:DC:316:GLU:H	2.31	0.44
34:DC:245:GLY:HA3	34:DC:246:LEU:HA	1.77	0.44
35:DD:6:VAL:CB	35:DD:20:LEU:N	2.80	0.44
39:DH:158:ASP:CA	39:DH:159:PRO:C	2.90	0.44
39:DH:225:LYS:C	39:DH:227:ASP:H	2.25	0.44
42:DK:101:ASN:O	42:DK:103:GLY:O	2.35	0.44
44:DO:39:ALA:HA	44:DO:61:ILE:O	2.18	0.44
44:DO:53:TYR:O	44:DO:54:LYS:C	2.60	0.44
46:DQ:84:PRO:O	46:DQ:85:ALA:HB3	2.16	0.44
48:DS:119:LEU:O	48:DS:123:LEU:CB	2.65	0.44
52:DW:75:LYS:C	52:DW:77:GLU:N	2.76	0.44
53:DX:36:SER:O	53:DX:39:LEU:N	2.51	0.44
54:DY:93:SER:O	54:DY:94:ALA:O	2.35	0.44
55:DZ:28:LYS:C	55:DZ:30:THR:N	2.75	0.44
60:De:23:LEU:C	60:De:24:PRO:O	2.58	0.44
60:De:43:ASN:O	60:De:44:TRP:C	2.60	0.44
65:Dk:7:UNK:O	65:Dk:11:UNK:N	2.51	0.44
1:A1:148:A:N6	1:A1:167:U:N3	2.66	0.44
1:A1:151:G:C6	1:A1:164:A:N1	2.86	0.44
1:A1:276:C:O2	1:A1:277:U:H3'	2.18	0.44
1:A1:302:U:O4	1:A1:303:U:O2	2.35	0.44
1:A1:451:A:H61	1:A1:456:A:N6	2.15	0.44
1:A1:512:A:O2'	1:A1:512:A:N3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:601:A:C5'	1:A1:602:U:OP2	2.66	0.44
1:A1:775:G:C2	1:A1:786:C:N3	2.86	0.44
1:A1:887:A:N3	1:A1:887:A:H2'	2.32	0.44
1:A1:1008:G:N1	1:A1:1009:U:C2	2.86	0.44
1:A1:1056:U:C4	1:A1:1063:U:N3	2.85	0.44
1:A1:1071:U:H5'	1:A1:1072:C:OP2	2.17	0.44
1:A1:1109:G:C2	1:A1:1110:G:C5	3.06	0.44
1:A1:1239:U:C5	1:A1:1241:G:O6	2.70	0.44
1:A1:1267:G:N2	1:A1:1448:G:H5"	2.32	0.44
1:A1:1277:G:H2'	1:A1:1278:G:O4'	2.18	0.44
1:A1:1330:G:O2'	1:A1:1331:A:H5'	2.18	0.44
1:A1:1441:C:H2'	1:A1:1442:U:C6	2.52	0.44
1:A1:1466:G:H2'	1:A1:1467:C:H6	1.79	0.44
1:A1:1467:C:C5'	1:A1:1602:C:OP1	2.54	0.44
1:A1:1623:C:C4	1:A1:1624:C:C5	3.05	0.44
1:A1:1623:C:C2	1:A1:1624:C:C5	3.05	0.44
1:A1:1683:C:O4'	1:A1:1721:A:N1	2.50	0.44
1:A1:1756:A:C6	74:A1:1901:OHX:N5	2.82	0.44
2:AA:67:ILE:C	2:AA:69:ASN:N	2.74	0.44
2:AA:70:PRO:O	2:AA:71:GLU:CB	2.65	0.44
3:AB:203:LYS:O	3:AB:205:ARG:N	2.51	0.44
6:AE:26:ALA:O	6:AE:29:LYS:N	2.50	0.44
11:AJ:32:ASN:H	11:AJ:68:ARG:HA	1.83	0.44
21:AT:194:GLY:O	21:AT:195:HIS:C	2.60	0.44
21:AT:257:ALA:C	21:AT:259:GLY:H	2.25	0.44
29:B1:43:A:C8	29:B1:2803:A:N6	2.85	0.44
29:B1:67:A:C2	29:B1:317:A:N7	2.85	0.44
29:B1:92:G:N7	29:B1:94:G:N2	2.66	0.44
29:B1:115:A:C2'	29:B1:116:A:H2	2.27	0.44
29:B1:237:G:O2'	29:B1:238:A:H5'	2.18	0.44
29:B1:303:G:C2	29:B1:2778:G:N7	2.86	0.44
29:B1:423:A:C6	29:B1:424:G:C6	3.05	0.44
29:B1:431:U:C6	29:B1:431:U:C4'	3.01	0.44
29:B1:535:G:C2	29:B1:559:A:H5'	2.53	0.44
29:B1:550:A:O2'	29:B1:551:A:H5'	2.17	0.44
29:B1:554:A:N6	29:B1:555:U:H3	2.15	0.44
29:B1:592:A:C6	29:B1:593:C:C5	3.06	0.44
29:B1:605:U:C5'	29:B1:605:U:C6	2.92	0.44
29:B1:787:G:H2'	29:B1:788:C:C6	2.53	0.44
29:B1:995:U:C4	29:B1:2637:A:N9	2.86	0.44
29:B1:1019:G:N2	29:B1:1033:U:O2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1065:A:O2'	29:B1:1093:A:N1	2.50	0.44
29:B1:1218:U:H2'	29:B1:1218:U:O2	2.18	0.44
29:B1:1313:G:C2'	29:B1:1314:C:O5'	2.66	0.44
29:B1:1388:U:C2	29:B1:1389:G:N7	2.85	0.44
29:B1:1454:A:C8	29:B1:1454:A:C3'	3.01	0.44
29:B1:1478:C:C6	29:B1:1478:C:H5'	2.52	0.44
29:B1:1522:U:C5	29:B1:1835:A:O4'	2.71	0.44
29:B1:1524:A:O4'	29:B1:1607:U:O2	2.35	0.44
29:B1:1601:U:O2'	29:B1:1602:A:O5'	2.35	0.44
29:B1:1623:G:C2	29:B1:1823:A:C2	3.05	0.44
29:B1:1779:C:H4'	29:B1:1779:C:OP1	2.16	0.44
29:B1:1779:C:H5'	29:B1:1780:G:O4'	2.17	0.44
29:B1:1836:C:H2'	29:B1:1837:U:O4'	2.17	0.44
29:B1:1841:A:C6	29:B1:1848:G:C5	3.06	0.44
29:B1:1853:U:O4	74:B1:3559:OHX:N6	2.51	0.44
29:B1:1914:G:H2'	29:B1:1914:G:N3	2.33	0.44
29:B1:2145:A:N3	29:B1:2145:A:H2'	2.33	0.44
29:B1:2211:U:O2'	29:B1:2212:C:H5'	2.17	0.44
29:B1:2246:G:C4	29:B1:2247:G:C8	3.06	0.44
29:B1:2247:G:H5"	29:B1:2248:C:OP2	2.17	0.44
29:B1:2300:G:H2'	29:B1:2300:G:N3	2.32	0.44
29:B1:2316:G:N3	29:B1:2317:A:C8	2.85	0.44
29:B1:2423:U:O5'	29:B1:2423:U:H6	2.00	0.44
29:B1:2459:A:N6	29:B1:2486:A:C2	2.86	0.44
29:B1:2488:A:H2'	29:B1:2488:A:N3	2.33	0.44
29:B1:2617:U:O2	29:B1:2617:U:O4'	2.32	0.44
29:B1:2672:G:C8	29:B1:2672:G:C3'	3.00	0.44
29:B1:2727:A:P	49:BT:80:VAL:O	2.76	0.44
29:B1:2835:U:H2'	29:B1:2835:U:O2	2.17	0.44
29:B1:2891:U:H3	29:B1:3130:A:N6	2.16	0.44
29:B1:2961:G:H5"	29:B1:2962:U:P	2.58	0.44
29:B1:2997:G:H21	29:B1:2998:U:H4'	1.82	0.44
29:B1:3063:C:O2	29:B1:3064:U:C5	2.70	0.44
29:B1:3077:A:N7	29:B1:3080:G:C8	2.85	0.44
29:B1:3147:G:C2'	29:B1:3148:U:O5'	2.65	0.44
29:B1:3188:G:H2'	29:B1:3189:G:H8	1.83	0.44
29:B1:3219:G:N2	29:B1:3258:U:OP2	2.50	0.44
29:B1:3344:A:O2'	29:B1:3345:G:N7	2.37	0.44
29:B1:3387:U:C2	29:B1:3388:C:N4	2.86	0.44
30:B2:65:G:N2	30:B2:66:A:N9	2.65	0.44
30:B2:66:A:C4	30:B2:67:G:H8	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:56:G:H2'	31:B3:57:C:C6	2.49	0.44
33:BB:15:ILE:O	33:BB:16:PHE:CB	2.63	0.44
35:BD:22:LEU:O	35:BD:23:PRO:C	2.60	0.44
39:BH:98:ARG:O	39:BH:99:PRO:O	2.35	0.44
39:BH:110:THR:O	39:BH:111:LYS:C	2.60	0.44
39:BH:243:GLN:O	39:BH:244:ALA:C	2.60	0.44
40:BI:126:VAL:O	40:BI:127:PRO:O	2.36	0.44
41:BJ:47:PRO:O	41:BJ:48:LEU:C	2.60	0.44
45:BP:158:ALA:O	45:BP:160:ARG:N	2.51	0.44
47:BR:102:ALA:O	47:BR:103:ALA:HB2	2.17	0.44
48:BS:65:ALA:O	48:BS:68:GLN:CB	2.65	0.44
49:BT:9:SER:C	49:BT:11:THR:N	2.76	0.44
51:BV:3:VAL:O	51:BV:4:GLU:CB	2.66	0.44
54:BY:130:VAL:C	54:BY:132:LYS:N	2.75	0.44
56:Ba:59:ILE:O	56:Ba:60:TRP:O	2.36	0.44
59:Bd:37:CYS:O	59:Bd:39:TYR:N	2.51	0.44
67:Bm:15:UNK:O	67:Bm:16:UNK:C	2.66	0.44
1:C1:42:G:O6	74:C1:1910:OHX:N5	2.50	0.44
1:C1:198:A:C1'	1:C1:199:G:P	3.06	0.44
1:C1:224:C:C2'	1:C1:225:A:C8	2.90	0.44
1:C1:267:U:O4'	1:C1:267:U:P	2.76	0.44
1:C1:348:U:O2'	1:C1:349:U:H5'	2.18	0.44
1:C1:514:G:N3	1:C1:515:A:C8	2.86	0.44
1:C1:609:U:C5'	1:C1:610:G:C5	2.89	0.44
1:C1:640:U:C5	1:C1:641:G:C6	3.05	0.44
1:C1:648:G:C6	1:C1:649:U:C5	3.05	0.44
1:C1:862:A:C5	1:C1:963:A:N6	2.86	0.44
1:C1:900:A:C2	1:C1:901:G:H1'	2.53	0.44
1:C1:1056:U:C5	1:C1:1057:U:C4	3.06	0.44
1:C1:1138:A:O2'	1:C1:1139:A:C5'	2.63	0.44
1:C1:1179:G:N7	1:C1:1180:C:C5	2.86	0.44
1:C1:1203:A:N3	1:C1:1555:A:C2	2.85	0.44
1:C1:1211:A:C6	1:C1:1212:G:N7	2.86	0.44
1:C1:1558:U:H5	1:C1:1559:A:C3'	2.31	0.44
1:C1:1609:U:H2'	1:C1:1610:G:C8	2.52	0.44
1:C1:1682:U:O4	74:C1:1951:OHX:N3	2.51	0.44
1:C1:1693:A:N3	1:C1:1694:A:N7	2.66	0.44
10:CI:36:LEU:HA	10:CI:37:ALA:CB	2.34	0.44
16:CO:117:ARG:O	16:CO:118:ARG:O	2.35	0.44
21:CT:224:ASN:CB	21:CT:227:ALA:HB3	2.48	0.44
23:Cb:125:UNK:O	23:Cb:134:UNK:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:15:C:C2	52:DW:46:TYR:HA	2.53	0.44
29:D1:25:U:C2	29:D1:330:G:O3'	2.71	0.44
29:D1:26:A:H2	29:D1:330:G:N2	2.16	0.44
29:D1:48:A:H5'	29:D1:50:U:O4'	2.18	0.44
29:D1:51:A:H2'	29:D1:52:A:H5'	1.98	0.44
29:D1:158:G:C2'	29:D1:159:A:H4'	2.46	0.44
29:D1:189:G:C4	29:D1:191:U:O4	2.71	0.44
29:D1:362:U:H2'	29:D1:363:G:O4'	2.18	0.44
29:D1:384:A:H8	29:D1:384:A:P	2.37	0.44
29:D1:395:A:H2'	29:D1:395:A:N3	2.33	0.44
29:D1:422:A:C4	29:D1:423:A:H5"	2.53	0.44
29:D1:768:C:H2'	29:D1:769:G:C4	2.52	0.44
29:D1:769:G:N3	29:D1:770:G:N9	2.65	0.44
29:D1:816:A:H5'	29:D1:906:A:H61	1.81	0.44
29:D1:850:U:H2'	29:D1:851:C:C6	2.52	0.44
29:D1:895:A:C4	29:D1:897:U:C6	3.05	0.44
29:D1:1007:U:OP1	29:D1:1007:U:H4'	2.18	0.44
29:D1:1076:C:N3	29:D1:1077:U:C4	2.86	0.44
29:D1:1225:A:H2'	29:D1:1226:G:H8	1.81	0.44
29:D1:1226:G:N1	29:D1:1227:C:C4	2.85	0.44
29:D1:1251:A:H5"	74:D1:3557:OHX:N6	2.33	0.44
29:D1:1266:G:C2	29:D1:1267:U:C6	3.06	0.44
29:D1:1293:U:H2'	29:D1:1294:A:O5'	2.17	0.44
29:D1:1300:G:C5	29:D1:1301:A:N7	2.86	0.44
29:D1:1390:A:N7	29:D1:1418:A:C8	2.86	0.44
29:D1:1394:A:N7	29:D1:1395:G:C8	2.86	0.44
29:D1:1415:U:C2	29:D1:1416:C:C6	3.06	0.44
29:D1:1506:A:C6	29:D1:1513:G:N1	2.86	0.44
29:D1:1537:A:C5	29:D1:1538:G:C8	3.06	0.44
29:D1:1590:G:N3	29:D1:1591:G:C8	2.86	0.44
29:D1:1684:U:H2'	29:D1:1685:C:O2	2.17	0.44
29:D1:1706:C:C3'	29:D1:1707:A:H5'	2.48	0.44
29:D1:1763:U:H2'	29:D1:1764:U:O4'	2.18	0.44
29:D1:1795:U:O4	62:Dg:51:ALA:HB2	2.17	0.44
29:D1:2108:C:H1'	29:D1:3342:A:N7	2.33	0.44
29:D1:2119:A:C8	29:D1:2120:A:H2	2.35	0.44
29:D1:2133:U:O2'	29:D1:2134:G:H5'	2.18	0.44
29:D1:2214:A:H2'	29:D1:2215:A:C8	2.53	0.44
29:D1:2386:A:C5	29:D1:2387:A:C8	3.05	0.44
29:D1:2541:U:O2	29:D1:2541:U:C2'	2.57	0.44
29:D1:2561:A:OP1	29:D1:2561:A:C8	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2594:C:C6	29:D1:2595:A:C8	3.06	0.44
29:D1:2673:A:N6	29:D1:2681:U:N3	2.49	0.44
29:D1:2680:A:H61	42:DK:56:THR:N	2.16	0.44
29:D1:2697:A:H2'	29:D1:2698:G:O4'	2.18	0.44
29:D1:2727:A:C2	29:D1:2729:U:C5	2.92	0.44
29:D1:2741:C:H4'	61:Df:19:LYS:H	1.83	0.44
29:D1:2912:G:N3	29:D1:3130:A:H2'	2.33	0.44
29:D1:3034:C:C6	29:D1:3034:C:C3'	3.00	0.44
29:D1:3039:C:H2'	29:D1:3040:A:H8	1.82	0.44
29:D1:3090:U:HO2'	29:D1:3091:A:P	2.24	0.44
29:D1:3106:A:C6	29:D1:3107:U:C2	3.05	0.44
29:D1:3156:U:H3'	29:D1:3156:U:O2	2.17	0.44
29:D1:3197:G:H21	29:D1:3198:U:H6	1.65	0.44
29:D1:3273:A:OP1	29:D1:3273:A:C4'	2.66	0.44
29:D1:3273:A:C2'	29:D1:3274:A:C4'	2.95	0.44
29:D1:3368:U:H3'	29:D1:3369:G:C5'	2.47	0.44
30:D2:9:C:OP2	30:D2:10:C:O4'	2.36	0.44
30:D2:35:C:H6	30:D2:35:C:C5'	2.29	0.44
30:D2:103:A:H2'	30:D2:104:A:H8	1.83	0.44
31:D3:114:G:H2'	31:D3:115:C:C5'	2.48	0.44
32:DA:55:LEU:HA	32:DA:166:ALA:O	2.18	0.44
37:DF:156:LYS:O	37:DF:157:GLN:C	2.58	0.44
39:DH:130:TYR:O	39:DH:131:ALA:C	2.60	0.44
39:DH:239:GLY:C	39:DH:241:LYS:N	2.75	0.44
40:DI:121:LYS:O	40:DI:122:LYS:O	2.34	0.44
41:DJ:56:GLU:O	41:DJ:58:GLU:N	2.50	0.44
72:DL:28:LEU:CB	72:DL:42:VAL:O	2.66	0.44
44:DO:111:ALA:C	44:DO:113:LEU:N	2.75	0.44
45:DP:49:ARG:C	45:DP:51:LYS:N	2.69	0.44
45:DP:58:LEU:H	45:DP:60:LYS:N	2.16	0.44
1:A1:6:G:H5'	1:A1:553:G:H4'	1.99	0.44
1:A1:101:U:H5"	74:A1:1978:OHX:N1	2.32	0.44
1:A1:356:G:OP2	74:A1:1916:OHX:N6	2.51	0.44
1:A1:381:C:C5'	1:A1:382:C:OP2	2.65	0.44
1:A1:430:G:O2'	1:A1:431:C:H5'	2.18	0.44
1:A1:451:A:N6	1:A1:456:A:N6	2.65	0.44
1:A1:464:A:H2'	1:A1:464:A:N3	2.33	0.44
1:A1:498:G:H1'	1:A1:499:U:C5	2.46	0.44
1:A1:694:U:H3'	1:A1:695:U:C6	2.52	0.44
1:A1:760:A:C2'	1:A1:761:G:H5'	2.45	0.44
1:A1:792:U:H2'	1:A1:793:A:C5'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:806:A:H2'	1:A1:807:A:C8	2.46	0.44
1:A1:862:A:H2'	1:A1:862:A:N3	2.33	0.44
1:A1:1058:U:C2	1:A1:1060:U:OP2	2.71	0.44
1:A1:1097:U:O2'	1:A1:1097:U:O2	2.28	0.44
1:A1:1140:G:N3	1:A1:1141:G:C8	2.86	0.44
2:AA:73:VAL:O	2:AA:95:ALA:HB1	2.18	0.44
3:AB:217:ALA:C	3:AB:219:GLY:N	2.73	0.44
11:AJ:12:LYS:CB	11:AJ:16:ALA:O	2.66	0.44
14:AM:68:ARG:C	14:AM:70:GLN:N	2.76	0.44
14:AM:101:ASN:C	14:AM:103:LYS:N	2.76	0.44
17:AP:136:TRP:HA	17:AP:137:LYS:C	2.42	0.44
21:AT:111:MET:O	21:AT:112:SER:CB	2.66	0.44
21:AT:301:LEU:O	21:AT:312:VAL:CA	2.65	0.44
29:B1:22:G:O2'	31:B3:40:A:N1	2.47	0.44
29:B1:88:A:C2	29:B1:281:G:C2	3.05	0.44
29:B1:166:C:C4	29:B1:167:U:C4	3.06	0.44
29:B1:353:G:OP1	29:B1:353:G:H4'	2.17	0.44
29:B1:556:U:OP2	29:B1:557:A:OP2	2.36	0.44
29:B1:559:A:C8	29:B1:560:G:N7	2.86	0.44
29:B1:656:A:C6	29:B1:1440:G:C6	3.06	0.44
29:B1:815:G:C6	29:B1:906:A:C4	3.06	0.44
29:B1:819:U:H4'	29:B1:2138:A:C2	2.52	0.44
29:B1:884:A:O3'	29:B1:885:U:H6	2.01	0.44
29:B1:1042:U:OP2	29:B1:1042:U:C5	2.69	0.44
29:B1:1084:A:C5	29:B1:1085:A:C5	3.05	0.44
29:B1:1099:A:H1'	38:BG:122:ALA:CB	2.48	0.44
29:B1:1228:C:C4	29:B1:1282:G:N1	2.85	0.44
29:B1:1295:G:C5	29:B1:1296:C:N4	2.86	0.44
29:B1:1315:U:O2'	29:B1:1316:C:O5'	2.36	0.44
29:B1:1360:C:H2'	29:B1:1361:U:C6	2.53	0.44
29:B1:1367:G:C2'	29:B1:1368:U:OP2	2.65	0.44
29:B1:1453:A:C2	29:B1:1878:G:C2	3.06	0.44
29:B1:1483:G:C8	29:B1:1485:G:C5	3.06	0.44
29:B1:1494:U:O2	29:B1:1835:A:C2	2.71	0.44
29:B1:1528:G:C2'	29:B1:1529:A:H5'	2.47	0.44
29:B1:1688:U:H2'	29:B1:1688:U:O2	2.18	0.44
29:B1:1795:U:O4'	29:B1:1796:G:C2	2.71	0.44
29:B1:1805:C:O2'	29:B1:1806:A:H5'	2.18	0.44
29:B1:1877:U:OP2	74:B1:3485:OHX:N3	2.49	0.44
29:B1:1900:A:N1	29:B1:1908:A:N1	2.66	0.44
29:B1:2161:G:N3	29:B1:2161:G:H2'	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2270:A:C6	29:B1:2271:A:C6	3.05	0.44
29:B1:2285:C:H41	29:B1:2286:U:H3	1.65	0.44
29:B1:2550:U:C5'	29:B1:2551:U:OP2	2.65	0.44
29:B1:2611:U:O2'	29:B1:2803:A:N1	2.51	0.44
29:B1:2643:A:C4'	29:B1:2644:C:OP2	2.66	0.44
29:B1:2777:G:H4'	29:B1:2778:G:H5"	2.00	0.44
29:B1:3021:A:C8	29:B1:3023:U:N3	2.86	0.44
29:B1:3045:G:C8	29:B1:3045:G:C3'	3.01	0.44
29:B1:3105:U:H2'	29:B1:3106:A:C8	2.53	0.44
29:B1:3198:U:O2	29:B1:3199:G:N7	2.51	0.44
29:B1:3207:U:C6	29:B1:3209:A:C2	3.06	0.44
29:B1:3235:C:H2'	29:B1:3236:U:O4'	2.17	0.44
29:B1:3289:G:C6	29:B1:3290:G:C5	3.06	0.44
29:B1:3292:A:O2'	29:B1:3293:U:H4'	2.18	0.44
29:B1:3326:G:C2	29:B1:3327:G:N9	2.85	0.44
30:B2:48:U:C6	30:B2:49:G:C6	3.05	0.44
30:B2:60:G:N1	30:B2:61:G:C5	2.86	0.44
30:B2:95:A:C2	30:B2:96:U:N3	2.86	0.44
30:B2:114:U:H2'	30:B2:115:G:H1'	1.98	0.44
31:B3:82:U:O4	74:B3:205:OHX:N2	2.50	0.44
31:B3:96:A:N3	31:B3:96:A:H2'	2.33	0.44
31:B3:115:C:C2'	31:B3:116:G:O5'	2.66	0.44
33:BB:172:GLY:N	62:Bg:68:ALA:CB	2.81	0.44
34:BC:261:MET:HA	34:BC:263:SER:C	2.43	0.44
35:BD:16:THR:CB	35:BD:153:SER:H	2.30	0.44
35:BD:75:PRO:O	35:BD:88:GLY:HA2	2.17	0.44
36:BE:236:LEU:C	36:BE:238:ASP:N	2.73	0.44
38:BG:167:ALA:HB1	38:BG:178:ILE:O	2.18	0.44
40:BI:171:ASP:O	40:BI:172:ILE:C	2.60	0.44
46:BQ:99:ALA:C	46:BQ:102:ALA:HB3	2.43	0.44
47:BR:41:ASP:O	47:BR:42:ALA:HB3	2.18	0.44
48:BS:183:ALA:C	48:BS:185:LEU:H	2.25	0.44
55:BZ:51:LEU:C	55:BZ:53:LYS:N	2.75	0.44
58:Bc:32:LYS:O	58:Bc:34:GLN:N	2.51	0.44
1:C1:4:C:O2	1:C1:4:C:C2'	2.65	0.44
1:C1:90:C:H1'	1:C1:452:A:OP1	2.18	0.44
1:C1:156:A:H5'	1:C1:416:A:H8	1.81	0.44
1:C1:220:A:N1	1:C1:842:C:O2	2.51	0.44
1:C1:290:G:H2'	1:C1:291:G:C8	2.53	0.44
1:C1:329:G:C4	1:C1:330:G:C8	3.05	0.44
1:C1:332:U:C2	1:C1:334:G:OP2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:492:A:N7	1:C1:494:U:OP2	2.51	0.44
1:C1:498:G:N3	1:C1:499:U:O4	2.51	0.44
1:C1:519:C:N4	1:C1:534:A:N1	2.66	0.44
1:C1:541:A:OP2	1:C1:541:A:C4	2.71	0.44
1:C1:544:A:OP1	1:C1:544:A:C8	2.71	0.44
1:C1:544:A:N1	1:C1:545:A:H8	2.16	0.44
1:C1:624:G:C5	1:C1:625:C:C5	3.06	0.44
1:C1:652:G:N1	1:C1:683:C:C2	2.84	0.44
1:C1:719:U:O2	1:C1:719:U:H2'	2.17	0.44
1:C1:753:A:H2'	1:C1:754:A:C8	2.52	0.44
1:C1:839:U:C4	1:C1:840:U:O4	2.71	0.44
1:C1:924:A:O2'	1:C1:925:G:O4'	2.36	0.44
1:C1:925:G:N3	1:C1:988:A:H1'	2.33	0.44
1:C1:1065:A:C2'	1:C1:1066:C:C6	2.98	0.44
1:C1:1076:A:H2'	1:C1:1077:C:C5'	2.48	0.44
1:C1:1195:C:N4	11:CJ:143:ARG:H	2.16	0.44
1:C1:1213:G:O2'	1:C1:1245:G:N2	2.48	0.44
1:C1:1329:A:H2'	1:C1:1330:G:C5'	2.48	0.44
1:C1:1336:A:N1	1:C1:1416:G:C6	2.86	0.44
1:C1:1341:A:C2	21:CT:63:GLY:HA2	2.53	0.44
1:C1:1348:A:C3'	1:C1:1349:G:C5'	2.95	0.44
1:C1:1428:G:C2	1:C1:1429:G:C5	3.05	0.44
1:C1:1584:G:C4	11:CJ:123:ARG:O	2.71	0.44
1:C1:1594:G:H2'	1:C1:1595:U:H5'	1.99	0.44
1:C1:1648:A:H2'	1:C1:1649:G:C8	2.53	0.44
1:C1:1740:A:H2'	1:C1:1741:U:H6	1.82	0.44
2:CA:68:PRO:C	2:CA:71:GLU:H	2.26	0.44
3:CB:58:LEU:O	3:CB:59:HIS:C	2.59	0.44
3:CB:62:PRO:CB	3:CB:63:VAL:CB	2.96	0.44
3:CB:131:ILE:C	3:CB:133:LYS:N	2.75	0.44
3:CB:138:PRO:C	3:CB:140:ARG:H	2.25	0.44
4:CC:22:ASN:O	4:CC:26:THR:N	2.51	0.44
4:CC:66:ILE:O	4:CC:68:GLU:N	2.51	0.44
5:CD:149:VAL:CB	5:CD:157:ARG:H	2.30	0.44
9:CH:60:ALA:HA	9:CH:63:ALA:HB2	2.00	0.44
10:CI:77:ARG:CB	10:CI:95:GLY:HA3	2.48	0.44
25:Cd:103:UNK:C	25:Cd:105:UNK:N	2.79	0.44
25:Cd:108:UNK:O	25:Cd:109:UNK:C	2.66	0.44
29:D1:9:U:O2	29:D1:9:U:C3'	2.66	0.44
29:D1:35:A:C6	29:D1:36:C:C4	3.05	0.44
29:D1:106:A:C2'	29:D1:107:A:O5'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:124:U:C4	29:D1:125:C:C5	3.05	0.44
29:D1:159:A:C4	29:D1:160:G:N7	2.86	0.44
29:D1:196:G:O6	29:D1:199:A:OP2	2.36	0.44
29:D1:215:G:N3	29:D1:215:G:H2'	2.32	0.44
29:D1:222:A:C5	29:D1:223:U:C5	3.06	0.44
29:D1:270:U:H6	29:D1:270:U:H3'	1.83	0.44
29:D1:305:U:O2	29:D1:305:U:C2'	2.50	0.44
29:D1:407:A:H8	29:D1:407:A:C5'	2.30	0.44
29:D1:523:A:C2	29:D1:524:U:N1	2.86	0.44
29:D1:544:C:H2'	29:D1:545:U:H3'	2.00	0.44
29:D1:609:G:C5	29:D1:610:G:O6	2.70	0.44
29:D1:656:A:H5'	29:D1:657:A:OP2	2.18	0.44
29:D1:689:U:C5	35:DD:227:THR:O	2.71	0.44
29:D1:771:A:H61	29:D1:772:U:H3	1.65	0.44
29:D1:894:G:H1'	29:D1:895:A:N7	2.33	0.44
29:D1:1054:A:H5"	29:D1:2637:A:H61	1.82	0.44
29:D1:1121:U:H2'	29:D1:1122:U:H6	1.81	0.44
29:D1:1130:A:C5'	29:D1:1130:A:H8	2.31	0.44
29:D1:1141:C:C4	29:D1:1142:G:N7	2.86	0.44
29:D1:1183:C:O2	29:D1:1183:C:H2'	2.17	0.44
29:D1:1220:U:O2	29:D1:1220:U:H2'	2.17	0.44
29:D1:1235:U:OP2	29:D1:1235:U:H3'	2.18	0.44
29:D1:1276:U:C2'	29:D1:1277:C:H5'	2.48	0.44
29:D1:1419:A:C6	29:D1:1420:C:C4	3.06	0.44
29:D1:1444:G:H1	29:D1:2359:C:H42	1.66	0.44
29:D1:1687:U:C3'	29:D1:1688:U:H4'	2.48	0.44
29:D1:1719:G:C4'	29:D1:1732:U:H4'	2.48	0.44
29:D1:1890:U:C4	29:D1:1891:A:N7	2.86	0.44
29:D1:2137:U:C5	29:D1:2142:A:N7	2.86	0.44
29:D1:2361:A:C5	29:D1:2362:C:C4	3.06	0.44
29:D1:2391:G:C6	29:D1:2392:C:N3	2.86	0.44
29:D1:2399:A:C6	29:D1:2400:G:C6	3.06	0.44
29:D1:2491:A:H1'	32:DA:205:VAL:CB	2.47	0.44
29:D1:2679:A:OP2	29:D1:2679:A:C4'	2.66	0.44
29:D1:2689:A:C4	29:D1:2702:A:N1	2.85	0.44
29:D1:2730:G:H2'	29:D1:2731:U:O5'	2.18	0.44
29:D1:2823:G:C4	29:D1:2824:G:C8	3.05	0.44
29:D1:3005:A:C2	29:D1:3140:G:C2	3.05	0.44
29:D1:3035:A:C4	29:D1:3036:G:N7	2.86	0.44
29:D1:3048:A:N3	29:D1:3048:A:O4'	2.50	0.44
29:D1:3056:U:OP2	74:D1:3454:OHX:N5	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3141:A:N3	29:D1:3143:C:O2'	2.51	0.44
29:D1:3174:A:O2'	29:D1:3175:U:C5'	2.64	0.44
30:D2:14:U:O2'	30:D2:15:C:O4'	2.36	0.44
30:D2:106:U:C2	30:D2:107:C:C4	3.04	0.44
30:D2:112:G:OP1	74:D2:207:OHX:N4	2.51	0.44
30:D2:114:U:H2'	30:D2:115:G:C1'	2.48	0.44
31:D3:47:C:H1'	31:D3:61:A:H2'	2.00	0.44
31:D3:106:C:C1'	31:D3:107:G:OP2	2.66	0.44
31:D3:139:U:H2'	31:D3:140:G:O4'	2.18	0.44
36:DE:74:VAL:O	36:DE:75:LEU:C	2.61	0.44
36:DE:125:VAL:O	36:DE:246:ALA:CB	2.65	0.44
36:DE:258:LYS:C	36:DE:260:PHE:N	2.72	0.44
37:DF:115:GLU:C	37:DF:117:LYS:N	2.76	0.44
38:DG:130:ILE:O	38:DG:131:GLU:C	2.60	0.44
42:DK:147:THR:O	42:DK:148:VAL:O	2.35	0.44
72:DL:70:ALA:O	72:DL:72:SER:N	2.46	0.44
73:DM:3:GLY:C	73:DM:5:ARG:N	2.76	0.44
46:DQ:62:ARG:C	46:DQ:64:ASN:N	2.76	0.44
47:DR:149:ALA:HB3	47:DR:150:VAL:C	2.43	0.44
48:DS:39:ASN:O	48:DS:42:ARG:N	2.51	0.44
57:Db:107:VAL:O	57:Db:110:ALA:HB3	2.18	0.44
60:De:7:PHE:C	60:De:10:LYS:H	2.25	0.44
1:A1:3:U:C4'	3:AB:180:ALA:HA	2.47	0.44
1:A1:95:G:N3	1:A1:95:G:H2'	2.33	0.44
1:A1:143:G:C2	1:A1:144:U:H1'	2.53	0.44
1:A1:148:A:H3'	1:A1:149:C:H6	1.81	0.44
1:A1:278:U:O2	1:A1:278:U:C3'	2.63	0.44
1:A1:337:G:O5'	1:A1:337:G:H8	2.00	0.44
1:A1:479:C:H2'	1:A1:480:G:C8	2.52	0.44
1:A1:618:U:OP1	1:A1:1030:A:C2	2.70	0.44
1:A1:646:C:C3'	1:A1:647:G:C5'	2.91	0.44
1:A1:708:C:N3	1:A1:731:C:C6	2.86	0.44
1:A1:723:G:N2	1:A1:724:C:C2	2.86	0.44
1:A1:733:A:N3	1:A1:733:A:H2'	2.31	0.44
1:A1:826:U:O2	1:A1:847:A:C2	2.71	0.44
1:A1:926:A:C5	1:A1:927:C:C6	3.05	0.44
1:A1:993:A:C5	1:A1:1012:U:O2	2.71	0.44
1:A1:1039:A:C5	1:A1:1091:A:C2	3.06	0.44
1:A1:1066:C:C2'	1:A1:1067:C:H5'	2.47	0.44
1:A1:1087:A:C3'	1:A1:1088:A:C8	2.94	0.44
1:A1:1113:A:N3	1:A1:1115:U:C5	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1139:A:O2'	1:A1:1140:G:H5'	2.18	0.44
1:A1:1390:U:O4'	1:A1:1413:U:C2	2.71	0.44
1:A1:1486:G:C6	1:A1:1487:A:C5	3.06	0.44
1:A1:1538:U:H3'	1:A1:1538:U:C6	2.53	0.44
1:A1:1543:A:H1'	1:A1:1569:A:C6	2.53	0.44
1:A1:1572:G:OP1	1:A1:1572:G:H3'	2.17	0.44
1:A1:1573:A:C5'	1:A1:1574:G:H5'	2.48	0.44
1:A1:1663:G:C6	1:A1:1664:C:C4	3.06	0.44
1:A1:1718:G:C2	1:A1:1719:A:N7	2.86	0.44
1:A1:1731:A:H3'	1:A1:1732:A:H8	1.83	0.44
1:A1:1783:C:N4	1:A1:1784:C:H41	2.15	0.44
1:A1:1793:G:O2'	1:A1:1794:A:OP2	2.36	0.44
3:AB:163:GLY:O	3:AB:164:SER:C	2.60	0.44
6:AE:156:ILE:O	6:AE:158:PHE:N	2.51	0.44
8:AG:119:GLU:C	8:AG:121:ARG:N	2.75	0.44
17:AP:79:ASN:O	17:AP:81:LYS:N	2.47	0.44
18:AQ:45:GLU:O	18:AQ:48:ASP:N	2.50	0.44
21:AT:280:GLY:O	21:AT:281:TYR:CB	2.66	0.44
29:B1:39:A:C2	29:B1:44:U:O4	2.70	0.44
29:B1:86:G:OP1	29:B1:86:G:H4'	2.17	0.44
29:B1:359:U:O2	29:B1:920:A:N6	2.50	0.44
29:B1:609:G:C6	29:B1:610:G:O6	2.71	0.44
29:B1:884:A:C5	29:B1:2139:A:N3	2.85	0.44
29:B1:968:G:C6	29:B1:969:C:N4	2.85	0.44
29:B1:993:G:C4	29:B1:2637:A:C4	3.06	0.44
29:B1:1036:A:C6	29:B1:1037:C:N4	2.86	0.44
29:B1:1064:A:O2'	29:B1:1065:A:O5'	2.36	0.44
29:B1:1083:G:C2'	29:B1:1084:A:O5'	2.66	0.44
29:B1:1083:G:O2'	29:B1:1084:A:O5'	2.35	0.44
29:B1:1099:A:C6	29:B1:1100:U:C4	3.05	0.44
29:B1:1224:C:H6	29:B1:1224:C:OP2	2.01	0.44
29:B1:1260:A:H3'	29:B1:1261:G:C2	2.53	0.44
29:B1:1339:C:C2	29:B1:1340:G:N7	2.86	0.44
29:B1:1413:G:C2	29:B1:1414:G:N7	2.86	0.44
29:B1:1440:G:HO2'	29:B1:1441:G:H5'	1.82	0.44
29:B1:1442:U:O2'	29:B1:1443:G:O5'	2.33	0.44
29:B1:1492:G:H3'	29:B1:1493:G:C2	2.52	0.44
29:B1:1561:G:C5	29:B1:1562:C:C4	3.06	0.44
29:B1:1627:U:C5	29:B1:1628:C:C2	3.06	0.44
29:B1:1658:G:C5	29:B1:1659:U:C4	3.05	0.44
29:B1:1695:U:O2	29:B1:1749:A:C2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1728:G:N2	29:B1:1730:G:H21	2.14	0.44
29:B1:2143:A:O2'	29:B1:2144:A:C5'	2.66	0.44
29:B1:2209:U:OP2	29:B1:2209:U:N1	2.51	0.44
29:B1:2223:A:C2	29:B1:2224:A:C5	3.06	0.44
29:B1:2270:A:H2'	29:B1:2271:A:H8	1.71	0.44
29:B1:2316:G:C2	29:B1:2317:A:C5	3.05	0.44
29:B1:2325:G:N3	29:B1:2326:A:C8	2.86	0.44
29:B1:2516:U:H6	29:B1:2516:U:C5'	2.31	0.44
29:B1:2526:C:H3'	29:B1:2527:G:C8	2.53	0.44
29:B1:2667:A:N3	29:B1:2667:A:C2'	2.80	0.44
29:B1:2717:U:O4	29:B1:2740:A:N6	2.51	0.44
29:B1:2837:A:H2'	29:B1:2845:A:C6	2.52	0.44
29:B1:2891:U:N3	29:B1:3130:A:N6	2.65	0.44
29:B1:2925:C:C5	29:B1:2926:A:C5	3.06	0.44
29:B1:3021:A:C5	29:B1:3023:U:O4	2.71	0.44
29:B1:3055:U:O2	29:B1:3085:G:C2	2.71	0.44
29:B1:3106:A:C6	29:B1:3107:U:C2	3.06	0.44
29:B1:3128:G:H2'	29:B1:3128:G:N3	2.31	0.44
29:B1:3201:C:N4	29:B1:3202:G:O6	2.51	0.44
29:B1:3211:C:P	29:B1:3211:C:O4'	2.76	0.44
29:B1:3239:G:C2'	29:B1:3240:C:H5'	2.48	0.44
29:B1:3302:U:O2'	29:B1:3303:G:C4'	2.65	0.44
29:B1:3331:U:H6	29:B1:3331:U:O5'	2.00	0.44
30:B2:14:U:O2'	30:B2:15:C:H4'	2.18	0.44
30:B2:26:C:C4'	30:B2:27:A:OP1	2.59	0.44
31:B3:41:A:H5'	31:B3:42:G:OP2	2.17	0.44
31:B3:79:A:C2'	31:B3:80:A:C8	3.01	0.44
34:BC:114:VAL:N	34:BC:115:LYS:CB	2.81	0.44
34:BC:210:GLU:C	34:BC:212:ASN:H	2.26	0.44
34:BC:295:ALA:N	34:BC:306:THR:H	2.15	0.44
34:BC:300:ARG:O	34:BC:301:THR:CB	2.65	0.44
38:BG:34:LYS:O	38:BG:35:ALA:C	2.61	0.44
38:BG:124:LEU:O	38:BG:127:LEU:N	2.51	0.44
43:BN:9:ALA:O	43:BN:14:LEU:CB	2.66	0.44
44:BO:143:ARG:CA	44:BO:146:ALA:HB2	2.48	0.44
45:BP:49:ARG:C	45:BP:51:LYS:N	2.71	0.44
45:BP:161:LYS:O	45:BP:164:SER:CB	2.66	0.44
50:BU:39:VAL:HA	50:BU:58:VAL:HA	1.99	0.44
52:BW:87:SER:O	52:BW:90:ALA:N	2.51	0.44
56:Ba:13:THR:HA	56:Ba:72:ARG:HA	1.99	0.44
63:Bh:40:UNK:C	63:Bh:42:UNK:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:100:A:C6	1:C1:101:U:C4	3.05	0.44
1:C1:706:A:C5	1:C1:733:A:C2	3.05	0.44
1:C1:878:G:C6	1:C1:951:A:C6	3.06	0.44
1:C1:977:A:C5	1:C1:1025:A:C2	3.06	0.44
1:C1:1039:A:C5	1:C1:1091:A:C2	3.05	0.44
1:C1:1128:C:H2'	1:C1:1129:U:O4'	2.17	0.44
1:C1:1136:U:H2'	1:C1:1137:A:H5'	1.99	0.44
1:C1:1268:G:C2	1:C1:1270:G:N7	2.85	0.44
1:C1:1378:U:C3'	1:C1:1379:C:C5'	2.91	0.44
1:C1:1467:C:C2	1:C1:1468:U:C5	3.05	0.44
1:C1:1497:U:C4	1:C1:1498:G:C5	3.06	0.44
1:C1:1573:A:O4'	1:C1:1574:G:C2	2.71	0.44
1:C1:1649:G:C2	1:C1:1650:U:C4	3.06	0.44
1:C1:1683:C:H2'	1:C1:1719:A:C6	2.53	0.44
8:CG:69:ASN:O	8:CG:71:ILE:N	2.51	0.44
8:CG:127:ARG:O	8:CG:129:TYR:N	2.49	0.44
9:CH:64:ALA:O	9:CH:68:ALA:N	2.50	0.44
12:CK:9:VAL:C	12:CK:11:ARG:N	2.76	0.44
13:CL:18:LEU:O	13:CL:21:ASN:CB	2.66	0.44
21:CT:167:VAL:O	21:CT:182:ASN:HA	2.18	0.44
21:CT:267:PRO:O	21:CT:269:TYR:N	2.49	0.44
29:D1:23:A:N3	29:D1:24:G:H1'	2.33	0.44
29:D1:34:A:C6	29:D1:35:A:C5	3.05	0.44
29:D1:60:A:C8	29:D1:61:A:C8	3.06	0.44
29:D1:66:A:N6	29:D1:76:G:H21	2.09	0.44
29:D1:167:U:H2'	29:D1:168:U:C6	2.53	0.44
29:D1:198:A:C2	29:D1:219:A:C5	3.06	0.44
29:D1:377:A:H2'	29:D1:391:A:H61	1.82	0.44
29:D1:421:G:C8	29:D1:421:G:H5"	2.53	0.44
29:D1:428:A:C8	29:D1:428:A:C3'	3.01	0.44
29:D1:592:A:C2	29:D1:593:C:C6	3.06	0.44
29:D1:606:C:H6	29:D1:606:C:C4'	2.22	0.44
29:D1:649:A:N3	29:D1:650:C:C6	2.86	0.44
29:D1:661:G:C6	29:D1:802:C:C5	3.05	0.44
29:D1:703:G:C6	29:D1:704:U:N3	2.86	0.44
29:D1:722:G:C6	29:D1:748:U:N3	2.86	0.44
29:D1:888:A:N6	29:D1:889:U:C4	2.85	0.44
29:D1:934:G:N3	29:D1:934:G:H2'	2.32	0.44
29:D1:953:G:O3'	29:D1:954:U:O4'	2.36	0.44
29:D1:957:C:O2'	29:D1:2799:A:O2'	2.32	0.44
29:D1:1001:G:C8	29:D1:1041:U:O3'	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1159:A:N3	29:D1:1159:A:C2'	2.75	0.44
29:D1:1192:C:C2'	29:D1:1193:A:H1'	2.48	0.44
29:D1:1225:A:C4	29:D1:1226:G:N7	2.86	0.44
29:D1:1337:A:H2'	29:D1:1338:C:C6	2.45	0.44
29:D1:1345:G:C5	74:D1:3480:OHX:N6	2.86	0.44
29:D1:1451:C:O2	29:D1:1451:C:C2'	2.66	0.44
29:D1:1489:A:H2'	29:D1:1490:A:H8	1.83	0.44
29:D1:1496:C:P	29:D1:1514:G:H5'	2.57	0.44
29:D1:1499:C:C2	29:D1:1500:G:C8	3.06	0.44
29:D1:1506:A:C1'	29:D1:1848:G:O6	2.66	0.44
29:D1:1604:G:N1	29:D1:1605:A:C6	2.86	0.44
29:D1:1631:C:H2'	29:D1:1632:A:OP2	2.17	0.44
29:D1:1713:G:C6	29:D1:1730:G:N3	2.86	0.44
29:D1:1743:G:H2'	29:D1:1744:G:H5'	2.00	0.44
29:D1:1747:G:N7	29:D1:1748:G:N7	2.65	0.44
29:D1:1815:U:H3'	29:D1:1816:A:C5'	2.44	0.44
29:D1:1868:G:C5	29:D1:1869:C:C6	3.05	0.44
29:D1:1876:U:H6	29:D1:1876:U:C5'	2.31	0.44
29:D1:1929:G:H3'	29:D1:1930:A:H2'	1.99	0.44
29:D1:2149:A:H2'	29:D1:2150:G:O4'	2.18	0.44
29:D1:2262:A:N3	29:D1:2263:C:H5"	2.33	0.44
29:D1:2340:U:O2'	29:D1:2341:A:H5'	2.18	0.44
29:D1:2390:A:C2	29:D1:2990:G:C2	3.06	0.44
29:D1:2443:A:O2'	29:D1:2444:C:H5'	2.18	0.44
29:D1:2651:G:C5	29:D1:2796:G:N2	2.86	0.44
29:D1:2688:U:H2'	29:D1:2688:U:O2	2.17	0.44
29:D1:2853:A:C5	29:D1:2854:U:N3	2.86	0.44
29:D1:2909:U:H2'	29:D1:2910:A:C5'	2.47	0.44
29:D1:2923:U:H2'	29:D1:2924:U:H6	1.83	0.44
29:D1:2937:G:N7	34:DC:5:LYS:CB	2.81	0.44
29:D1:2942:C:H6	29:D1:2942:C:O5'	2.01	0.44
29:D1:2969:A:C4	29:D1:2970:C:C5	3.05	0.44
29:D1:2998:U:OP1	29:D1:2998:U:H6	2.01	0.44
29:D1:3030:G:O2'	29:D1:3031:G:O5'	2.35	0.44
29:D1:3032:A:H3'	29:D1:3032:A:H8	1.83	0.44
29:D1:3057:U:HO2'	29:D1:3059:G:H8	1.65	0.44
29:D1:3179:U:O5'	29:D1:3179:U:C6	2.67	0.44
29:D1:3211:C:O2'	29:D1:3212:C:O5'	2.33	0.44
29:D1:3279:A:C5	29:D1:3280:U:O4	2.70	0.44
29:D1:3289:G:C6	29:D1:3290:G:C5	3.06	0.44
29:D1:3305:A:C5	29:D1:3306:U:C2	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3321:C:H42	29:D1:3386:G:H22	1.65	0.44
30:D2:43:U:C4	30:D2:44:C:C4	3.06	0.44
30:D2:52:G:N2	30:D2:53:U:C2	2.86	0.44
31:D3:14:C:C3'	31:D3:15:G:H8	2.17	0.44
31:D3:56:G:H21	31:D3:57:C:H1'	1.82	0.44
31:D3:68:G:O5'	74:D3:204:OHX:N3	2.50	0.44
31:D3:75:G:OP2	31:D3:76:C:P	2.76	0.44
32:DA:65:ILE:HA	32:DA:109:ALA:C	2.42	0.44
32:DA:82:VAL:O	32:DA:83:ASP:C	2.60	0.44
34:DC:122:TRP:HA	34:DC:128:LYS:O	2.18	0.44
36:DE:98:ALA:O	36:DE:162:ALA:HA	2.18	0.44
37:DF:30:LEU:CB	37:DF:31:ARG:HA	2.47	0.44
37:DF:152:THR:O	37:DF:153:PRO:C	2.60	0.44
39:DH:241:LYS:O	39:DH:242:ALA:C	2.60	0.44
42:DK:50:ALA:N	42:DK:62:ASN:HA	2.33	0.44
42:DK:156:LYS:O	42:DK:158:ASP:N	2.51	0.44
43:DN:33:ALA:HA	43:DN:48:GLY:N	2.32	0.44
46:DQ:55:GLN:O	46:DQ:56:ARG:CB	2.65	0.44
47:DR:31:LYS:O	47:DR:35:PHE:CB	2.66	0.44
47:DR:149:ALA:H	47:DR:150:VAL:HA	1.83	0.44
55:DZ:56:LEU:O	55:DZ:57:GLU:C	2.61	0.44
58:Dc:40:SER:CB	58:Dc:41:LEU:C	2.91	0.44
59:Dd:26:SER:CB	59:Dd:35:SER:CB	2.95	0.44
1:A1:108:A:H3'	1:A1:109:G:C8	2.51	0.43
1:A1:328:A:N6	1:A1:341:A:H61	2.14	0.43
1:A1:350:U:C5'	1:A1:352:A:O4'	2.66	0.43
1:A1:380:U:HO2'	1:A1:381:C:H6	1.65	0.43
1:A1:450:U:H2'	1:A1:451:A:N7	2.30	0.43
1:A1:498:G:N3	1:A1:499:U:O4	2.51	0.43
1:A1:651:G:N2	1:A1:652:G:C6	2.85	0.43
1:A1:704:C:H1'	1:A1:705:U:OP1	2.17	0.43
1:A1:720:G:H8	1:A1:720:G:OP1	2.01	0.43
1:A1:752:A:H8	1:A1:752:A:O5'	1.99	0.43
1:A1:925:G:H5'	1:A1:987:G:OP1	2.18	0.43
1:A1:977:A:C5	1:A1:1025:A:C4	3.06	0.43
1:A1:991:G:O2'	1:A1:1013:A:N6	2.44	0.43
1:A1:1043:A:C4	1:A1:1044:U:C5	3.06	0.43
1:A1:1056:U:C5	1:A1:1057:U:C4	3.06	0.43
1:A1:1113:A:C2	1:A1:1115:U:C4	3.05	0.43
1:A1:1138:A:O2'	1:A1:1139:A:C5'	2.60	0.43
1:A1:1248:C:H2'	1:A1:1249:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1398:U:O2'	1:A1:1399:C:O5'	2.30	0.43
1:A1:1481:C:C4'	1:A1:1482:C:OP1	2.64	0.43
1:A1:1566:U:H2'	1:A1:1567:U:H5"	1.97	0.43
1:A1:1603:U:O2	1:A1:1603:U:C2'	2.60	0.43
1:A1:1658:G:OP1	1:A1:1659:A:OP2	2.35	0.43
1:A1:1659:A:C2	1:A1:1660:A:C8	3.06	0.43
1:A1:1671:A:N6	1:A1:1672:G:C2	2.85	0.43
1:A1:1681:A:C8	1:A1:1682:U:C2	3.06	0.43
3:AB:217:ALA:O	3:AB:218:ILE:C	2.61	0.43
11:AJ:28:LEU:CA	14:AM:1:MET:HA	2.48	0.43
29:B1:30:G:N1	29:B1:55:G:C6	2.86	0.43
29:B1:48:A:C4	29:B1:50:U:C4	3.05	0.43
29:B1:96:G:C2'	29:B1:97:U:O5'	2.66	0.43
29:B1:245:U:C5	74:B1:3489:OHX:N1	2.85	0.43
29:B1:416:A:N3	29:B1:416:A:H2'	2.32	0.43
29:B1:507:U:C2	29:B1:584:G:N1	2.86	0.43
29:B1:776:U:H6	29:B1:777:U:N1	2.16	0.43
29:B1:843:A:O2'	29:B1:844:G:H5'	2.19	0.43
29:B1:877:C:H6	29:B1:877:C:C3'	2.30	0.43
29:B1:880:G:C4	29:B1:882:A:N7	2.86	0.43
29:B1:941:G:N7	74:B1:3492:OHX:N6	2.65	0.43
29:B1:1152:G:C8	29:B1:1152:G:P	3.11	0.43
29:B1:1206:G:N3	29:B1:1206:G:C2'	2.81	0.43
29:B1:1260:A:H2	29:B1:1278:A:C5	2.36	0.43
29:B1:1379:G:C6	29:B1:1428:A:N1	2.86	0.43
29:B1:1412:G:C6	29:B1:1413:G:C5	3.06	0.43
29:B1:1414:G:H2'	29:B1:1415:U:O4'	2.18	0.43
29:B1:1430:U:H5'	29:B1:1430:U:H6	1.83	0.43
29:B1:1444:G:C2'	29:B1:1445:U:O5'	2.65	0.43
29:B1:1506:A:H3'	29:B1:1507:G:O4'	2.17	0.43
29:B1:1517:G:N1	29:B1:1518:U:C4	2.86	0.43
29:B1:1696:A:N1	29:B1:1697:A:C6	2.86	0.43
29:B1:1907:C:C5	29:B1:1908:A:C4	3.05	0.43
29:B1:1909:A:N6	29:B1:1910:A:C6	2.86	0.43
29:B1:2107:A:C5	29:B1:2108:C:C5	3.06	0.43
29:B1:2381:G:C2'	29:B1:2382:G:H5'	2.48	0.43
29:B1:2389:C:H2'	29:B1:2390:A:O5'	2.17	0.43
29:B1:2406:C:H1'	29:B1:2819:A:C5	2.52	0.43
29:B1:2434:U:C2	29:B1:2593:A:O2'	2.71	0.43
29:B1:2461:A:C2	29:B1:2485:A:H2'	2.53	0.43
29:B1:2469:G:H2'	29:B1:2470:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2514:U:P	29:B1:2586:G:H22	2.41	0.43
29:B1:2516:U:H6	29:B1:2516:U:O5'	2.00	0.43
29:B1:2672:G:O6	29:B1:2683:U:O4	2.36	0.43
29:B1:2715:A:H4'	29:B1:2716:U:OP2	2.18	0.43
29:B1:2722:U:O3'	49:BT:88:ARG:O	2.34	0.43
29:B1:2801:A:O2'	29:B1:2802:A:H2'	2.17	0.43
29:B1:2830:G:H2'	29:B1:2831:G:H8	1.83	0.43
29:B1:2916:U:C5	29:B1:2935:U:O2	2.71	0.43
29:B1:2945:G:N3	29:B1:2945:G:O4'	2.49	0.43
29:B1:3005:A:O2'	29:B1:3140:G:N2	2.40	0.43
29:B1:3146:G:C2	29:B1:3147:G:C8	3.06	0.43
29:B1:3160:U:N3	29:B1:3161:C:C4	2.86	0.43
29:B1:3215:A:H5"	29:B1:3218:A:H5"	1.96	0.43
29:B1:3278:C:C4	29:B1:3279:A:N6	2.86	0.43
29:B1:3295:A:H2'	29:B1:3296:A:C8	2.50	0.43
29:B1:3303:G:C5	29:B1:3305:A:C6	3.05	0.43
30:B2:2:G:N3	30:B2:3:U:C5	2.86	0.43
30:B2:27:A:H2'	30:B2:27:A:N3	2.33	0.43
31:B3:20:U:C2	31:B3:21:C:C6	3.06	0.43
33:BB:170:ALA:O	33:BB:171:GLY:O	2.35	0.43
34:BC:191:LYS:O	34:BC:192:VAL:O	2.36	0.43
34:BC:245:GLY:HA3	34:BC:246:LEU:HA	1.77	0.43
35:BD:39:PHE:O	35:BD:41:SER:C	2.60	0.43
35:BD:69:ARG:O	35:BD:70:ALA:HB3	2.18	0.43
35:BD:257:LYS:O	35:BD:258:LEU:O	2.36	0.43
38:BG:36:ALA:O	38:BG:37:ASN:C	2.61	0.43
38:BG:148:VAL:O	38:BG:152:GLY:CA	2.66	0.43
38:BG:192:GLY:O	38:BG:195:PHE:CB	2.65	0.43
43:BN:84:LYS:C	43:BN:86:ALA:N	2.76	0.43
45:BP:166:GLU:O	45:BP:168:TYR:N	2.50	0.43
48:BS:28:GLU:O	48:BS:29:THR:C	2.60	0.43
52:BW:95:ILE:O	52:BW:96:LYS:C	2.60	0.43
53:BX:70:ILE:HA	53:BX:82:VAL:HA	2.00	0.43
56:Ba:43:HIS:O	56:Ba:45:GLY:N	2.51	0.43
58:Bc:52:ALA:O	58:Bc:55:LEU:N	2.51	0.43
62:Bg:59:CYS:CB	74:Bg:101:OHX:N1	2.80	0.43
1:C1:55:A:C2	1:C1:403:G:C4	3.05	0.43
1:C1:62:A:H2	1:C1:63:G:C5	2.35	0.43
1:C1:84:A:N6	1:C1:85:A:C6	2.86	0.43
1:C1:198:A:H1'	1:C1:199:G:O5'	2.17	0.43
1:C1:218:A:N1	1:C1:844:A:H1'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:251:A:C2'	1:C1:252:U:H5'	2.46	0.43
1:C1:333:A:H2'	1:C1:334:G:C8	2.53	0.43
1:C1:551:G:N1	1:C1:552:G:C6	2.86	0.43
1:C1:567:A:N1	1:C1:583:C:H1'	2.33	0.43
1:C1:571:G:C3'	1:C1:572:C:H6	2.30	0.43
1:C1:607:G:N7	1:C1:613:G:C8	2.86	0.43
1:C1:651:G:C2	1:C1:684:A:N7	2.86	0.43
1:C1:756:A:N7	1:C1:757:A:N7	2.66	0.43
1:C1:852:C:H2'	1:C1:853:G:O4'	2.18	0.43
1:C1:997:G:C2	1:C1:1008:G:C8	3.06	0.43
1:C1:1051:G:N3	1:C1:1052:U:C2	2.86	0.43
1:C1:1116:A:C5	1:C1:1117:U:C4	3.05	0.43
1:C1:1161:C:O2	1:C1:1161:C:H2'	2.17	0.43
1:C1:1232:U:O4	1:C1:1253:U:C2	2.71	0.43
1:C1:1270:G:C6	1:C1:1271:G:N7	2.86	0.43
1:C1:1454:G:C2	1:C1:1455:G:C1'	3.01	0.43
1:C1:1528:U:O5'	1:C1:1528:U:H6	2.01	0.43
1:C1:1564:U:C2'	1:C1:1565:C:C6	2.91	0.43
1:C1:1587:A:C5	1:C1:1588:G:N7	2.86	0.43
1:C1:1675:C:O2'	1:C1:1678:A:H8	2.01	0.43
1:C1:1718:G:N1	1:C1:1719:A:N7	2.66	0.43
2:CA:91:ALA:C	2:CA:93:THR:N	2.76	0.43
3:CB:162:CYS:CB	3:CB:205:ARG:O	2.66	0.43
6:CE:94:ASP:O	6:CE:95:TYR:C	2.60	0.43
8:CG:93:LYS:O	8:CG:94:LYS:C	2.61	0.43
17:CP:107:PHE:O	17:CP:108:GLY:O	2.36	0.43
21:CT:266:ASP:HA	21:CT:267:PRO:HA	1.81	0.43
23:Cb:118:UNK:CB	23:Cb:126:UNK:C	2.96	0.43
29:D1:26:A:C8	29:D1:27:C:H5	2.32	0.43
29:D1:36:C:H2'	29:D1:37:U:H5'	1.99	0.43
29:D1:156:G:H1'	29:D1:157:A:P	2.57	0.43
29:D1:196:G:C2	29:D1:219:A:N6	2.82	0.43
29:D1:208:C:C2	29:D1:209:A:N7	2.86	0.43
29:D1:310:U:C5	29:D1:311:C:C5	3.06	0.43
29:D1:365:A:C6	29:D1:366:A:C6	3.06	0.43
29:D1:423:A:C6	29:D1:424:G:C2	3.06	0.43
29:D1:532:A:C5	29:D1:533:A:C5	3.06	0.43
29:D1:727:G:OP1	29:D1:727:G:H4'	2.17	0.43
29:D1:820:A:C2	29:D1:911:C:O2'	2.69	0.43
29:D1:828:A:H2'	29:D1:828:A:N3	2.33	0.43
29:D1:843:A:C2'	29:D1:844:G:H5'	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:866:A:N7	29:D1:867:G:C8	2.83	0.43
29:D1:869:G:C3'	29:D1:870:G:H8	2.31	0.43
29:D1:878:G:C1'	29:D1:880:G:N2	2.81	0.43
29:D1:945:C:H2'	29:D1:946:U:H6	1.81	0.43
29:D1:1108:U:C2	29:D1:1109:U:C6	3.06	0.43
29:D1:1277:C:OP2	29:D1:1277:C:C2'	2.61	0.43
29:D1:1291:A:HO2'	29:D1:1292:C:P	2.40	0.43
29:D1:1306:G:C6	45:DP:63:ALA:HA	2.52	0.43
29:D1:1329:U:O2'	29:D1:1330:A:O5'	2.34	0.43
29:D1:1449:A:C6	29:D1:2356:A:C8	3.06	0.43
29:D1:1453:A:N3	29:D1:1878:G:C2	2.85	0.43
29:D1:1455:U:O4'	29:D1:1455:U:P	2.76	0.43
29:D1:1513:G:C5	29:D1:1515:A:C4	3.06	0.43
29:D1:1536:G:C5	29:D1:1586:G:N2	2.86	0.43
29:D1:1720:U:H3'	29:D1:1720:U:H6	1.83	0.43
29:D1:1782:U:C2'	29:D1:1783:U:O4'	2.56	0.43
29:D1:1810:A:C6	29:D1:1811:G:C6	3.06	0.43
29:D1:1887:A:N7	29:D1:2348:A:C2	2.84	0.43
29:D1:1922:A:C8	29:D1:1923:C:C5	3.06	0.43
29:D1:2197:C:C2	29:D1:2242:A:C2	3.06	0.43
29:D1:2223:A:C2	29:D1:2224:A:C4	3.06	0.43
29:D1:2248:C:C4'	29:D1:2271:A:H2	2.31	0.43
29:D1:2276:G:C4	29:D1:2277:C:C5	3.06	0.43
29:D1:2373:A:O2'	29:D1:2374:C:OP1	2.33	0.43
29:D1:2443:A:C6	29:D1:2444:C:N4	2.86	0.43
29:D1:2515:A:C2'	29:D1:2516:U:H5'	2.47	0.43
29:D1:2576:G:C4	29:D1:2577:C:C5	3.06	0.43
29:D1:2700:G:N7	74:D1:3416:OHX:N3	2.66	0.43
29:D1:2702:A:O4'	29:D1:2704:A:N7	2.51	0.43
29:D1:2727:A:C6	29:D1:2728:G:C6	3.01	0.43
29:D1:2739:A:H5"	29:D1:2740:A:P	2.57	0.43
29:D1:2767:U:H4'	61:Df:31:GLY:O	2.18	0.43
29:D1:2804:A:O2'	29:D1:2805:G:H5"	2.18	0.43
29:D1:2930:A:C6	29:D1:2931:C:C4	3.06	0.43
29:D1:3038:U:O2'	29:D1:3039:C:O5'	2.35	0.43
29:D1:3195:U:H3'	29:D1:3196:U:H3	1.83	0.43
29:D1:3221:C:H2'	29:D1:3222:U:H5'	1.99	0.43
29:D1:3235:C:H2'	29:D1:3236:U:O4'	2.17	0.43
29:D1:3295:A:C4	29:D1:3296:A:C8	3.06	0.43
29:D1:3372:A:C6	29:D1:3373:U:C4	3.06	0.43
74:D1:3543:OHX:N5	38:DG:217:PRO:C	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:44:C:C2	30:D2:45:A:C8	3.06	0.43
31:D3:70:G:N7	31:D3:71:A:C6	2.86	0.43
31:D3:87:G:O2'	31:D3:88:A:OP1	2.32	0.43
31:D3:147:U:N3	31:D3:148:G:N7	2.65	0.43
32:DA:6:SER:C	32:DA:8:GLN:N	2.76	0.43
32:DA:154:THR:HA	32:DA:155:ILE:CB	2.48	0.43
36:DE:94:ASN:C	36:DE:96:ALA:N	2.76	0.43
36:DE:102:GLY:HA2	36:DE:166:ALA:HB2	2.00	0.43
36:DE:217:GLU:HA	36:DE:220:SER:CB	2.48	0.43
36:DE:282:ARG:O	36:DE:285:ARG:O	2.36	0.43
38:DG:209:ASN:C	38:DG:211:SER:H	2.25	0.43
73:DM:42:ARG:O	73:DM:43:LYS:C	2.60	0.43
43:DN:61:GLY:O	43:DN:62:GLN:CB	2.65	0.43
44:DO:158:HIS:C	44:DO:160:GLU:N	2.76	0.43
44:DO:183:THR:CB	44:DO:185:ALA:HB3	2.48	0.43
45:DP:59:ARG:N	45:DP:61:ALA:H	2.16	0.43
45:DP:140:LYS:O	45:DP:141:LEU:C	2.59	0.43
45:DP:162:VAL:O	45:DP:164:SER:N	2.51	0.43
57:Db:88:HIS:O	57:Db:89:THR:CB	2.66	0.43
62:Dg:48:LYS:O	62:Dg:71:VAL:CB	2.66	0.43
1:A1:14:C:C2	1:A1:15:U:C5	3.06	0.43
1:A1:57:G:C6	1:A1:91:G:C2	3.06	0.43
1:A1:220:A:C5	1:A1:221:A:N7	2.86	0.43
1:A1:267:U:O4'	1:A1:267:U:P	2.75	0.43
1:A1:302:U:C2'	1:A1:303:U:H5'	2.47	0.43
1:A1:340:U:C2	1:A1:341:A:N7	2.85	0.43
1:A1:449:C:C2	1:A1:450:U:C5	3.06	0.43
1:A1:450:U:C2'	1:A1:451:A:C8	2.91	0.43
1:A1:509:G:C5	1:A1:510:G:N7	2.86	0.43
1:A1:521:A:O2'	1:A1:522:U:C5	2.67	0.43
1:A1:590:C:C2	1:A1:591:A:N7	2.86	0.43
1:A1:640:U:H3'	1:A1:641:G:H8	1.83	0.43
1:A1:861:U:H2'	1:A1:862:A:C5'	2.48	0.43
1:A1:1009:U:H2'	1:A1:1010:C:C6	2.53	0.43
1:A1:1044:U:O2	1:A1:1045:C:C5	2.71	0.43
1:A1:1046:G:N7	1:A1:1073:G:N2	2.67	0.43
1:A1:1057:U:H1'	1:A1:1062:A:H61	1.84	0.43
1:A1:1112:G:N2	1:A1:1134:C:N3	2.67	0.43
1:A1:1112:G:C6	1:A1:1113:A:N6	2.81	0.43
1:A1:1131:A:H2'	1:A1:1132:A:C8	2.53	0.43
1:A1:1347:U:C4	1:A1:1376:C:N4	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1484:G:N2	1:A1:1485:C:C2	2.86	0.43
1:A1:1608:U:C2	1:A1:1609:U:C5	3.06	0.43
1:A1:1720:G:O3'	74:A1:1950:OHX:N5	2.51	0.43
1:A1:1798:U:O2	1:A1:1798:U:O4'	2.34	0.43
5:AD:39:GLU:CA	5:AD:40:ILE:CB	2.96	0.43
6:AE:31:ALA:O	6:AE:34:PHE:CB	2.67	0.43
8:AG:91:LEU:O	8:AG:95:ALA:HB2	2.17	0.43
10:AI:29:SER:C	10:AI:31:GLU:N	2.75	0.43
14:AM:20:SER:O	14:AM:24:ARG:HA	2.18	0.43
17:AP:87:VAL:HA	17:AP:124:VAL:CB	2.48	0.43
23:Ab:58:UNK:O	23:Ab:59:UNK:O	2.37	0.43
24:Ac:50:UNK:O	24:Ac:51:UNK:CB	2.65	0.43
25:Ad:101:UNK:C	25:Ad:102:UNK:O	2.67	0.43
29:B1:10:C:O2'	29:B1:11:A:O5'	2.36	0.43
29:B1:90:C:H2'	29:B1:91:G:H5'	2.00	0.43
29:B1:112:U:C4	29:B1:320:G:N1	2.86	0.43
29:B1:120:G:H5'	29:B1:121:A:P	2.58	0.43
29:B1:196:G:C2	29:B1:219:A:N6	2.80	0.43
29:B1:546:C:H6	29:B1:546:C:H3'	1.82	0.43
29:B1:684:G:C6	29:B1:685:G:N7	2.86	0.43
29:B1:705:A:N6	29:B1:715:A:C8	2.86	0.43
29:B1:705:A:C2	29:B1:714:G:N3	2.86	0.43
29:B1:733:G:N3	29:B1:733:G:C3'	2.80	0.43
29:B1:753:C:H2'	29:B1:754:G:O4'	2.19	0.43
29:B1:861:C:C2	29:B1:862:U:C6	3.06	0.43
29:B1:983:A:C2	29:B1:985:U:O4	2.71	0.43
29:B1:1047:A:N6	29:B1:2646:C:H1'	2.26	0.43
29:B1:1085:A:H3'	29:B1:1086:C:H6	1.81	0.43
29:B1:1112:A:C5	29:B1:1113:G:C5	3.07	0.43
29:B1:1143:A:C8	29:B1:1368:U:C2	3.06	0.43
29:B1:1172:G:N3	29:B1:1179:A:C2	2.85	0.43
29:B1:1174:G:N2	29:B1:1175:C:C2	2.86	0.43
29:B1:1196:C:N3	30:B2:86:U:C6	2.86	0.43
29:B1:1218:U:O2'	29:B1:1219:C:C5'	2.66	0.43
29:B1:1244:A:C2	29:B1:1248:C:OP1	2.71	0.43
29:B1:1310:G:C8	29:B1:1310:G:H3'	2.53	0.43
29:B1:1477:A:C2'	29:B1:1478:C:H5"	2.48	0.43
29:B1:1544:G:N3	29:B1:1544:G:H2'	2.33	0.43
29:B1:1654:A:O2'	29:B1:1655:G:C4'	2.66	0.43
29:B1:1704:A:O2'	29:B1:1705:U:H5'	2.17	0.43
29:B1:1739:U:H2'	29:B1:1740:U:C4'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1739:U:H3'	29:B1:1739:U:C6	2.54	0.43
29:B1:1886:A:C6	29:B1:1887:A:N7	2.86	0.43
29:B1:1887:A:H4'	34:BC:227:GLU:HA	2.00	0.43
29:B1:1899:G:OP1	50:BU:22:ILE:N	2.43	0.43
29:B1:1914:G:C6	29:B1:1915:A:C6	3.06	0.43
29:B1:1953:G:N2	29:B1:2092:A:N7	2.66	0.43
29:B1:2117:A:N3	29:B1:2117:A:C2'	2.79	0.43
29:B1:2145:A:N3	29:B1:2146:C:C6	2.85	0.43
29:B1:2217:U:H2'	29:B1:2218:G:H8	1.83	0.43
29:B1:2308:C:C3'	29:B1:2309:A:H5"	2.47	0.43
29:B1:2325:G:N3	29:B1:2325:G:H2'	2.33	0.43
29:B1:2386:A:C5	29:B1:2387:A:C8	3.05	0.43
29:B1:2406:C:H2'	29:B1:2407:C:H6	1.82	0.43
29:B1:2441:A:C6	29:B1:2507:C:C2	3.06	0.43
29:B1:2507:C:C2	29:B1:2508:U:C5	3.06	0.43
29:B1:2558:U:H4'	29:B1:2559:U:OP2	2.18	0.43
29:B1:2589:G:N3	29:B1:2589:G:H2'	2.32	0.43
29:B1:2681:U:HO2'	29:B1:2682:C:H5"	1.80	0.43
29:B1:2703:A:C4'	29:B1:2704:A:H5'	2.47	0.43
29:B1:2725:U:C6	29:B1:2725:U:C3'	3.01	0.43
29:B1:2836:C:O2	29:B1:2836:C:C3'	2.65	0.43
29:B1:2868:U:C4	29:B1:2869:U:C5	3.06	0.43
29:B1:2971:A:H3'	29:B1:2971:A:P	2.59	0.43
29:B1:3064:U:N3	29:B1:3065:G:N7	2.66	0.43
29:B1:3166:C:OP2	29:B1:3166:C:H3'	2.18	0.43
29:B1:3174:A:H1'	29:B1:3175:U:C5'	2.37	0.43
29:B1:3273:A:H2'	29:B1:3273:A:N3	2.34	0.43
29:B1:3325:G:N2	29:B1:3326:G:N3	2.66	0.43
29:B1:3383:G:N2	29:B1:3384:U:C4	2.86	0.43
30:B2:25:G:C2	30:B2:26:C:C2	3.04	0.43
30:B2:73:C:C4	30:B2:74:C:C5	3.06	0.43
30:B2:73:C:C2	30:B2:74:C:C5	3.06	0.43
31:B3:3:A:N6	31:B3:4:C:N3	2.65	0.43
31:B3:74:U:H1'	31:B3:89:A:C5	2.52	0.43
31:B3:144:G:H2'	31:B3:145:U:H5'	1.98	0.43
33:BB:65:ASP:O	33:BB:66:PRO:CB	2.67	0.43
34:BC:297:SER:O	34:BC:299:ASP:CB	2.65	0.43
36:BE:177:GLU:O	36:BE:178:ASN:C	2.61	0.43
38:BG:33:ARG:O	38:BG:34:LYS:C	2.61	0.43
38:BG:130:ILE:O	38:BG:131:GLU:C	2.60	0.43
42:BK:84:LEU:O	42:BK:88:GLU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:81:VAL:O	43:BN:82:SER:C	2.61	0.43
46:BQ:22:LEU:O	46:BQ:144:SER:N	2.47	0.43
48:BS:7:GLN:O	48:BS:8:LYS:C	2.61	0.43
51:BV:32:GLN:O	51:BV:33:ASN:CB	2.66	0.43
54:BY:44:ASN:C	54:BY:46:ASP:CB	2.91	0.43
1:C1:34:G:O6	1:C1:474:A:C2	2.67	0.43
1:C1:52:U:O2'	1:C1:53:G:H5'	2.17	0.43
1:C1:144:U:C4	1:C1:145:A:C8	3.07	0.43
1:C1:195:G:H1'	1:C1:196:G:P	2.58	0.43
1:C1:206:A:C4	1:C1:262:U:C4	3.07	0.43
1:C1:274:G:C4	1:C1:275:C:C5	3.05	0.43
1:C1:310:C:C6	1:C1:310:C:C4'	3.00	0.43
1:C1:365:G:O6	1:C1:377:G:O6	2.35	0.43
1:C1:450:U:C4	1:C1:451:A:N6	2.82	0.43
1:C1:475:A:N1	1:C1:476:U:O2	2.51	0.43
1:C1:521:A:H2'	1:C1:521:A:N3	2.33	0.43
1:C1:545:A:N6	1:C1:593:U:O2'	2.46	0.43
1:C1:567:A:H8	1:C1:567:A:O5'	2.01	0.43
1:C1:610:G:O2'	1:C1:611:U:OP2	2.20	0.43
1:C1:940:A:C2	1:C1:941:A:N9	2.86	0.43
1:C1:940:A:N1	1:C1:941:A:C5	2.85	0.43
1:C1:963:A:O2'	1:C1:964:U:C6	2.43	0.43
1:C1:1111:G:O2'	1:C1:1112:G:H5'	2.17	0.43
1:C1:1163:A:N6	1:C1:1164:G:C5	2.86	0.43
1:C1:1185:U:C1'	1:C1:1186:U:OP2	2.67	0.43
1:C1:1250:U:H2'	1:C1:1251:U:O4'	2.18	0.43
1:C1:1329:A:H2'	1:C1:1330:G:H5'	2.00	0.43
1:C1:1342:C:H2'	1:C1:1343:U:H6	1.83	0.43
1:C1:1358:G:N3	1:C1:1358:G:C2'	2.74	0.43
1:C1:1388:A:C6	1:C1:1411:A:N7	2.87	0.43
1:C1:1390:U:H2'	1:C1:1390:U:O2	2.18	0.43
1:C1:1410:A:C6	1:C1:1411:A:C2	3.05	0.43
4:CC:57:ASP:C	4:CC:59:LEU:H	2.24	0.43
6:CE:33:GLU:HA	6:CE:36:LEU:CB	2.49	0.43
10:CI:19:GLY:HA2	13:CL:97:ASP:O	2.18	0.43
11:CJ:120:ASP:C	11:CJ:122:ARG:H	2.26	0.43
11:CJ:128:LYS:O	11:CJ:130:GLY:N	2.51	0.43
12:CK:27:ASP:C	12:CK:29:GLN:N	2.76	0.43
13:CL:68:ARG:O	13:CL:71:GLN:CB	2.66	0.43
13:CL:68:ARG:C	13:CL:71:GLN:H	2.26	0.43
13:CL:69:ILE:O	13:CL:73:MET:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CM:27:LYS:C	14:CM:29:GLU:N	2.76	0.43
16:CO:29:PRO:O	16:CO:57:ARG:O	2.35	0.43
25:Cd:111:UNK:O	25:Cd:112:UNK:C	2.66	0.43
29:D1:41:G:N7	29:D1:42:C:C5	2.86	0.43
29:D1:92:G:C5	29:D1:94:G:N2	2.86	0.43
29:D1:95:A:H5"	54:DY:34:MET:O	2.18	0.43
29:D1:169:U:H6	29:D1:169:U:O5'	2.01	0.43
29:D1:273:A:H2'	29:D1:274:G:H8	1.83	0.43
29:D1:424:G:C8	29:D1:424:G:C3'	3.02	0.43
29:D1:440:A:H5'	29:D1:441:U:C4'	2.48	0.43
29:D1:535:G:N1	29:D1:559:A:H5'	2.33	0.43
29:D1:554:A:C3'	29:D1:555:U:H5"	2.48	0.43
29:D1:563:U:N3	29:D1:564:G:O4'	2.51	0.43
29:D1:637:C:N4	29:D1:638:C:N4	2.66	0.43
29:D1:707:U:C5'	29:D1:782:U:O2'	2.62	0.43
29:D1:762:U:C4	74:D1:3514:OHX:N4	2.86	0.43
29:D1:844:G:C6	29:D1:845:G:N1	2.86	0.43
29:D1:915:A:C2	29:D1:917:A:H1'	2.54	0.43
29:D1:943:U:C2'	29:D1:944:C:OP1	2.66	0.43
29:D1:949:C:O2'	29:D1:971:G:OP1	2.36	0.43
29:D1:952:A:C1'	29:D1:1114:U:O2'	2.56	0.43
29:D1:957:C:O5'	29:D1:957:C:H6	2.01	0.43
29:D1:995:U:C4	29:D1:2637:A:C8	3.06	0.43
29:D1:1059:G:N3	29:D1:1059:G:C2'	2.79	0.43
29:D1:1143:A:O4'	29:D1:1368:U:C6	2.71	0.43
29:D1:1192:C:O2	29:D1:1193:A:C2	2.71	0.43
29:D1:1226:G:C4'	29:D1:3116:G:N7	2.81	0.43
29:D1:1296:C:HO2'	29:D1:1297:C:P	2.40	0.43
29:D1:1340:G:N2	29:D1:1341:U:C2	2.86	0.43
29:D1:1358:C:C2'	29:D1:1359:C:H6	2.31	0.43
29:D1:1390:A:C5	29:D1:1418:A:C4	3.07	0.43
29:D1:1393:A:O2'	29:D1:1419:A:C2	2.70	0.43
29:D1:1453:A:C2	29:D1:1878:G:C2	3.06	0.43
29:D1:1640:G:P	29:D1:1738:C:H5"	2.58	0.43
29:D1:1802:C:O2	29:D1:1802:C:H2'	2.17	0.43
29:D1:1878:G:P	29:D1:1879:A:C2	3.12	0.43
29:D1:1938:U:O4	74:D1:3448:OHX:N3	2.51	0.43
29:D1:2097:U:H2'	29:D1:2098:C:C6	2.52	0.43
29:D1:2155:G:C6	29:D1:2156:C:N4	2.86	0.43
29:D1:2173:U:C4	29:D1:2174:G:C5	3.06	0.43
29:D1:2257:C:H5'	29:D1:2258:U:C5	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2300:G:N2	29:D1:2301:U:C1’	2.81	0.43
29:D1:2353:G:C2	29:D1:2354:C:C6	3.06	0.43
29:D1:2459:A:N6	29:D1:2486:A:C2	2.86	0.43
29:D1:2469:G:H2’	29:D1:2470:C:C6	2.53	0.43
29:D1:2503:G:H2’	29:D1:2504:U:H6	1.77	0.43
29:D1:2559:U:O2	29:D1:2559:U:C2’	2.66	0.43
29:D1:2571:U:H2’	29:D1:2572:C:C5’	2.48	0.43
29:D1:2602:G:N3	29:D1:2603:G:C8	2.86	0.43
29:D1:2615:G:C4	29:D1:2616:C:C5	3.06	0.43
29:D1:2665:U:H4’	29:D1:2666:C:OP1	2.18	0.43
29:D1:2678:A:C5’	29:D1:2679:A:C2	3.00	0.43
29:D1:2714:G:OP2	61:Df:10:THR:HA	2.19	0.43
29:D1:2741:C:H4’	61:Df:19:LYS:HA	2.00	0.43
29:D1:2814:G:C2	29:D1:2815:G:C5	3.06	0.43
29:D1:2909:U:C2’	29:D1:2910:A:H5’	2.46	0.43
29:D1:2957:G:H8	29:D1:2957:G:H5’	1.83	0.43
29:D1:3211:C:C4’	29:D1:3211:C:OP1	2.67	0.43
29:D1:3278:C:C5’	29:D1:3279:A:OP2	2.53	0.43
29:D1:3281:U:C4	29:D1:3282:U:C4	3.06	0.43
29:D1:3299:A:O2’	29:D1:3300:U:OP2	2.36	0.43
29:D1:3335:A:C8	29:D1:3335:A:H3’	2.53	0.43
29:D1:3393:U:H2’	29:D1:3394:U:H6	1.82	0.43
30:D2:42:A:C2	30:D2:47:C:C4	2.94	0.43
30:D2:58:C:H5”	74:D2:204:OHX:N6	2.33	0.43
30:D2:74:C:C3’	30:D2:75:G:H5’	2.46	0.43
30:D2:120:C:H2’	30:D2:121:U:C5	2.52	0.43
31:D3:65:A:C8	31:D3:66:A:N7	2.86	0.43
36:DE:94:ASN:O	36:DE:97:ALA:N	2.43	0.43
37:DF:64:LEU:HA	37:DF:78:ARG:HA	1.99	0.43
39:DH:215:VAL:O	39:DH:219:ASP:CB	2.67	0.43
41:DJ:75:TYR:O	41:DJ:77:THR:N	2.51	0.43
41:DJ:170:LYS:CB	41:DJ:176:LEU:O	2.66	0.43
42:DK:29:ARG:O	42:DK:30:LEU:C	2.60	0.43
42:DK:32:ARG:O	42:DK:33:ALA:C	2.60	0.43
42:DK:118:PRO:CA	42:DK:119:SER:CB	2.95	0.43
42:DK:133:ARG:CB	42:DK:153:LYS:C	2.91	0.43
73:DM:85:GLY:O	73:DM:86:PHE:C	2.62	0.43
73:DM:96:ILE:C	73:DM:98:ASN:H	2.26	0.43
73:DM:102:SER:O	73:DM:104:ARG:N	2.51	0.43
73:DM:187:VAL:O	73:DM:188:VAL:CB	2.66	0.43
44:DO:52:GLY:O	44:DO:53:TYR:O	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DX:112:ASP:O	53:DX:114:ASP:N	2.51	0.43
57:Db:81:ASP:C	57:Db:83:GLU:N	2.76	0.43
57:Db:96:ILE:H	57:Db:121:ASN:CB	2.31	0.43
1:A1:34:G:O6	1:A1:474:A:C2	2.64	0.43
1:A1:63:G:C6	1:A1:64:U:C6	3.06	0.43
1:A1:63:G:C6	1:A1:88:U:C2	3.06	0.43
1:A1:85:A:O2'	1:A1:86:A:OP2	2.37	0.43
1:A1:108:A:C3'	1:A1:109:G:C8	3.00	0.43
1:A1:127:G:C5	1:A1:179:A:N7	2.86	0.43
1:A1:190:C:N4	1:A1:192:U:O4	2.51	0.43
1:A1:195:G:C4'	1:A1:196:G:OP1	2.66	0.43
1:A1:200:A:O2'	1:A1:201:G:P	2.76	0.43
1:A1:341:A:C5	1:A1:342:C:C5	3.07	0.43
1:A1:353:A:O5'	1:A1:353:A:H8	2.01	0.43
1:A1:702:G:C2	1:A1:703:G:C6	3.06	0.43
1:A1:869:A:C4	1:A1:870:C:C6	3.06	0.43
1:A1:1051:G:N3	1:A1:1052:U:C2	2.86	0.43
1:A1:1228:G:H2'	1:A1:1228:G:N3	2.32	0.43
1:A1:1237:G:C6	1:A1:1238:A:C5	3.07	0.43
1:A1:1237:G:N1	1:A1:1238:A:C5	2.86	0.43
1:A1:1358:G:N3	1:A1:1358:G:C2'	2.73	0.43
1:A1:1389:C:N4	1:A1:1391:A:C1'	2.81	0.43
1:A1:1433:G:O6	15:AN:71:PRO:CB	2.67	0.43
1:A1:1557:U:O2	1:A1:1557:U:C3'	2.66	0.43
1:A1:1587:A:C6	1:A1:1588:G:N7	2.86	0.43
1:A1:1649:G:C4	1:A1:1650:U:C5	3.06	0.43
1:A1:1650:U:C2	1:A1:1651:A:N7	2.86	0.43
1:A1:1720:G:C8	1:A1:1721:A:N7	2.87	0.43
1:A1:1773:C:N1	1:A1:1789:G:N2	2.65	0.43
8:AG:93:LYS:C	8:AG:95:ALA:N	2.74	0.43
8:AG:127:ARG:O	8:AG:131:THR:N	2.51	0.43
13:AL:58:ALA:C	13:AL:60:GLU:N	2.75	0.43
17:AP:107:PHE:O	17:AP:108:GLY:O	2.35	0.43
29:B1:12:A:OP2	29:B1:12:A:C8	2.62	0.43
29:B1:64:G:H8	29:B1:64:G:O5'	2.00	0.43
29:B1:203:G:C2	29:B1:204:A:H1'	2.53	0.43
29:B1:311:C:C2	29:B1:2779:A:C2	3.06	0.43
29:B1:429:U:O2'	29:B1:430:U:H5'	2.17	0.43
29:B1:532:A:C3'	29:B1:533:A:H8	2.30	0.43
29:B1:749:C:O2	29:B1:750:G:C8	2.71	0.43
29:B1:808:A:C5	29:B1:809:G:C8	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:850:U:H2'	29:B1:851:C:C6	2.54	0.43
29:B1:869:G:C3'	29:B1:870:G:H8	2.31	0.43
29:B1:884:A:H5"	29:B1:884:A:H8	1.83	0.43
29:B1:943:U:C2	29:B1:1432:C:C5	3.04	0.43
29:B1:974:G:C2	29:B1:975:C:C5	3.06	0.43
29:B1:1129:A:N6	29:B1:1130:A:N1	2.67	0.43
29:B1:1143:A:O4'	29:B1:1368:U:C6	2.71	0.43
29:B1:1360:C:O2	29:B1:1360:C:C2'	2.62	0.43
29:B1:1393:A:C3'	29:B1:1394:A:H5"	2.48	0.43
29:B1:1404:G:N1	29:B1:1408:G:C5	2.87	0.43
29:B1:1488:G:OP2	29:B1:1837:U:OP2	2.36	0.43
29:B1:1489:A:C4	29:B1:1490:A:C8	3.06	0.43
29:B1:1498:A:C2	29:B1:1519:G:N3	2.87	0.43
29:B1:1504:A:C4	29:B1:1505:C:H5	2.33	0.43
29:B1:1539:A:N7	29:B1:1540:U:H5	2.15	0.43
29:B1:1644:C:N3	74:B1:3505:OHX:N1	2.66	0.43
29:B1:1654:A:C2	29:B1:1655:G:N3	2.87	0.43
29:B1:1678:G:C4	29:B1:1679:A:C8	3.05	0.43
29:B1:1684:U:H2'	29:B1:1685:C:O2	2.18	0.43
29:B1:1688:U:C3'	29:B1:1689:U:H5	2.31	0.43
29:B1:1713:G:C4	29:B1:1730:G:N2	2.86	0.43
29:B1:1948:G:H2'	29:B1:1949:G:H8	1.82	0.43
29:B1:2182:A:N1	29:B1:2183:A:C5	2.86	0.43
29:B1:2197:C:N3	29:B1:2242:A:C2	2.86	0.43
29:B1:2300:G:N2	29:B1:2301:U:H1'	2.34	0.43
29:B1:2386:A:H2'	29:B1:2387:A:O4'	2.18	0.43
29:B1:2395:G:OP2	29:B1:2946:A:N6	2.48	0.43
29:B1:2420:C:C3'	29:B1:2421:U:H5'	2.49	0.43
29:B1:2430:A:C5	29:B1:2431:C:C5	3.06	0.43
29:B1:2450:G:OP2	29:B1:2450:G:H8	2.01	0.43
29:B1:2674:A:N9	42:BK:108:GLU:CB	2.82	0.43
29:B1:2794:G:O6	74:B1:3553:OHX:N1	2.51	0.43
29:B1:2831:G:C2	29:B1:2832:C:C2	3.06	0.43
29:B1:2890:A:C6	29:B1:2891:U:C4	3.06	0.43
29:B1:2895:G:H2'	29:B1:2896:A:C8	2.53	0.43
29:B1:2898:G:OP2	29:B1:2899:C:H6	2.02	0.43
29:B1:2912:G:N3	29:B1:3130:A:H2'	2.32	0.43
29:B1:3056:U:C2	29:B1:3079:U:N3	2.87	0.43
29:B1:3066:U:H3	29:B1:3075:G:H1	1.66	0.43
29:B1:3094:A:C4	29:B1:3095:U:C5	3.05	0.43
29:B1:3256:G:N3	29:B1:3256:G:C2'	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3273:A:C2'	29:B1:3274:A:C4'	2.95	0.43
29:B1:3294:A:C6	29:B1:3295:A:C4	3.06	0.43
29:B1:3315:G:H5"	29:B1:3319:U:O3'	2.18	0.43
30:B2:23:A:N7	30:B2:24:A:N7	2.66	0.43
30:B2:117:A:N6	30:B2:118:A:N6	2.66	0.43
31:B3:56:G:H21	31:B3:57:C:H1'	1.82	0.43
31:B3:152:G:N2	31:B3:153:U:H1'	2.31	0.43
32:BA:32:VAL:HA	32:BA:208:SER:HA	2.00	0.43
32:BA:68:PHE:H	32:BA:112:ALA:HB2	1.83	0.43
34:BC:298:PHE:CA	34:BC:299:ASP:CB	2.96	0.43
35:BD:8:VAL:H	35:BD:19:ALA:HA	1.83	0.43
37:BF:131:LYS:O	38:BG:70:LYS:O	2.36	0.43
41:BJ:24:ARG:O	41:BJ:25:ALA:CB	2.65	0.43
42:BK:101:ASN:O	42:BK:102:PHE:C	2.60	0.43
44:BO:36:ILE:HA	44:BO:64:VAL:HA	2.00	0.43
45:BP:10:ASP:O	45:BP:11:GLY:C	2.60	0.43
47:BR:31:LYS:O	47:BR:32:LEU:C	2.61	0.43
47:BR:35:PHE:C	47:BR:36:LEU:O	2.60	0.43
51:BV:37:ALA:O	51:BV:38:SER:C	2.61	0.43
63:Bh:45:UNK:O	63:Bh:49:UNK:CB	2.65	0.43
1:C1:57:G:C6	1:C1:91:G:C2	3.06	0.43
1:C1:60:U:C5	1:C1:453:U:H2'	2.53	0.43
1:C1:85:A:C2	1:C1:86:A:H1'	2.53	0.43
1:C1:93:A:O4'	1:C1:399:A:C2	2.71	0.43
1:C1:287:G:H2'	1:C1:288:A:C5'	2.47	0.43
1:C1:328:A:C6	1:C1:329:G:C5	3.07	0.43
1:C1:330:G:C5	1:C1:331:A:N7	2.86	0.43
1:C1:463:U:O2'	1:C1:527:A:H4'	2.18	0.43
1:C1:490:C:H5"	1:C1:491:C:OP2	2.17	0.43
1:C1:524:U:C4	1:C1:527:A:C6	3.06	0.43
1:C1:719:U:C1'	1:C1:720:G:P	3.06	0.43
1:C1:760:A:C4	1:C1:791:A:C2	3.06	0.43
1:C1:1032:G:N3	1:C1:1033:C:C5	2.86	0.43
1:C1:1207:C:C2	1:C1:1208:A:C6	3.06	0.43
1:C1:1211:A:N6	1:C1:1453:G:C6	2.86	0.43
1:C1:1228:G:C5	1:C1:1229:G:C8	3.06	0.43
1:C1:1325:A:N3	1:C1:1326:A:N7	2.66	0.43
1:C1:1377:U:H2'	1:C1:1378:U:O2'	2.18	0.43
1:C1:1380:U:O2'	1:C1:1381:U:H5'	2.18	0.43
1:C1:1383:G:C6	1:C1:1384:A:C5	3.07	0.43
1:C1:1411:A:H5'	1:C1:1412:G:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1433:G:O6	15:CN:71:PRO:CB	2.66	0.43
1:C1:1478:G:C2'	1:C1:1479:A:O4'	2.67	0.43
1:C1:1536:G:N3	1:C1:1536:G:C2'	2.75	0.43
1:C1:1568:C:H4'	1:C1:1568:C:OP1	2.18	0.43
1:C1:1592:A:O2'	1:C1:1593:A:H5'	2.18	0.43
3:CB:201:ASN:O	3:CB:202:GLY:C	2.61	0.43
4:CC:125:TYR:C	4:CC:128:GLU:H	2.27	0.43
8:CG:97:SER:O	8:CG:99:ARG:N	2.51	0.43
10:CI:40:ARG:C	10:CI:42:ARG:N	2.76	0.43
14:CM:10:ALA:O	14:CM:13:ASP:N	2.46	0.43
14:CM:37:VAL:C	14:CM:50:ALA:N	2.77	0.43
24:Cc:29:UNK:O	24:Cc:30:UNK:C	2.67	0.43
29:D1:78:U:O4	29:D1:325:A:N1	2.52	0.43
29:D1:98:G:H5"	29:D1:99:A:OP1	2.18	0.43
29:D1:117:U:C6	29:D1:117:U:C3'	3.01	0.43
29:D1:123:A:C2	29:D1:146:U:O2	2.71	0.43
29:D1:225:C:C2'	29:D1:226:C:O5'	2.67	0.43
29:D1:257:U:O2'	29:D1:258:G:O5'	2.19	0.43
29:D1:311:C:C2	29:D1:2779:A:C2	3.06	0.43
29:D1:339:C:N4	29:D1:340:C:H41	2.15	0.43
29:D1:355:A:C8	29:D1:356:C:C5	3.06	0.43
29:D1:428:A:H2'	29:D1:429:U:O4'	2.18	0.43
29:D1:431:U:HO2'	29:D1:432:G:P	2.41	0.43
29:D1:523:A:N3	29:D1:524:U:C6	2.86	0.43
29:D1:541:U:H2'	29:D1:542:G:C8	2.54	0.43
29:D1:578:A:H1'	37:DF:156:LYS:CB	2.49	0.43
29:D1:607:A:C6	29:D1:608:A:C4	3.05	0.43
29:D1:627:U:O2'	29:D1:628:A:H5'	2.18	0.43
29:D1:650:C:C5'	29:D1:2872:A:OP2	2.66	0.43
29:D1:717:C:H41	29:D1:721:G:C5'	2.03	0.43
29:D1:1055:A:C8	29:D1:1056:U:C5	3.07	0.43
29:D1:1063:G:O4'	29:D1:1063:G:P	2.76	0.43
29:D1:1178:G:C2'	29:D1:1179:A:C5'	2.94	0.43
29:D1:1209:G:H8	29:D1:1209:G:OP1	2.01	0.43
29:D1:1218:U:O2	29:D1:1218:U:H2'	2.17	0.43
29:D1:1257:C:N3	29:D1:1261:G:N2	2.66	0.43
29:D1:1357:G:C4	29:D1:1358:C:C6	3.06	0.43
29:D1:1524:A:C5	29:D1:1527:C:C4	3.06	0.43
29:D1:1543:G:N3	29:D1:1544:G:C8	2.86	0.43
29:D1:1611:G:H2'	29:D1:1612:A:C8	2.53	0.43
29:D1:1627:U:OP1	29:D1:1628:C:OP2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1654:A:O2'	29:D1:1655:G:O4'	2.36	0.43
29:D1:1658:G:C4	29:D1:1659:U:C6	3.06	0.43
29:D1:1678:G:OP2	29:D1:1678:G:H8	2.02	0.43
29:D1:1689:U:C4	29:D1:1690:C:C4	3.06	0.43
29:D1:1695:U:C2	29:D1:1749:A:N1	2.86	0.43
29:D1:1730:G:O6	55:DZ:26:GLY:CA	2.66	0.43
29:D1:1910:A:C6	29:D1:1911:A:N1	2.86	0.43
29:D1:2223:A:C2'	29:D1:2224:A:C8	3.01	0.43
29:D1:2261:G:N2	29:D1:2263:C:C2	2.86	0.43
29:D1:2423:U:O2'	29:D1:2424:A:O5'	2.36	0.43
29:D1:2463:G:O2'	29:D1:2464:U:H5'	2.18	0.43
29:D1:2625:C:O5'	29:D1:2625:C:H6	2.01	0.43
29:D1:2672:G:C8	29:D1:2672:G:C3'	3.00	0.43
29:D1:2708:C:C2'	29:D1:2709:C:O5'	2.66	0.43
29:D1:2762:A:C5	29:D1:2763:U:C5	3.06	0.43
29:D1:2771:U:HO2'	29:D1:2772:C:P	2.41	0.43
29:D1:2821:C:C6	29:D1:2821:C:C3'	3.01	0.43
29:D1:2834:G:C5	29:D1:2835:U:C5	3.04	0.43
29:D1:2992:U:C6	29:D1:2992:U:H3'	2.53	0.43
29:D1:3012:A:C2	29:D1:3043:C:C2	3.06	0.43
29:D1:3057:U:O2'	29:D1:3058:U:C4'	2.64	0.43
29:D1:3129:A:N3	29:D1:3129:A:C2'	2.82	0.43
29:D1:3271:G:N3	29:D1:3271:G:H3'	2.32	0.43
29:D1:3310:A:N1	29:D1:3311:C:C6	2.86	0.43
29:D1:3321:C:O2	29:D1:3322:A:C8	2.70	0.43
29:D1:3330:A:C6	29:D1:3331:U:C4	3.07	0.43
29:D1:3367:C:C2	29:D1:3368:U:C5	3.06	0.43
29:D1:3381:U:C2	29:D1:3383:G:N1	2.86	0.43
30:D2:41:G:C6	30:D2:43:U:C5	3.07	0.43
30:D2:69:C:O2	30:D2:110:G:N2	2.51	0.43
31:D3:11:C:O2'	46:DQ:4:TYR:HA	2.19	0.43
31:D3:44:A:H5"	31:D3:45:C:OP2	2.18	0.43
33:DB:229:ALA:O	33:DB:230:VAL:C	2.61	0.43
34:DC:12:GLY:O	34:DC:13:HIS:O	2.35	0.43
36:DE:260:PHE:C	36:DE:262:LYS:N	2.76	0.43
37:DF:10:TYR:O	37:DF:11:PRO:CB	2.66	0.43
37:DF:16:ALA:C	37:DF:18:LEU:N	2.76	0.43
40:DI:51:GLN:N	40:DI:52:LEU:CB	2.81	0.43
41:DJ:28:ASP:O	41:DJ:29:SER:O	2.36	0.43
41:DJ:114:GLY:O	41:DJ:115:MET:CB	2.65	0.43
45:DP:81:TYR:C	45:DP:83:ALA:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:168:TYR:O	45:DP:169:ALA:C	2.62	0.43
46:DQ:100:ALA:C	46:DQ:102:ALA:H	2.25	0.43
47:DR:63:SER:O	47:DR:66:ARG:N	2.51	0.43
49:DT:71:SER:O	49:DT:72:VAL:C	2.60	0.43
53:DX:89:LYS:C	53:DX:91:ASN:H	2.25	0.43
53:DX:101:PRO:C	53:DX:103:LYS:H	2.25	0.43
55:DZ:35:ARG:O	55:DZ:36:GLN:C	2.61	0.43
57:Db:24:ARG:O	57:Db:25:TYR:C	2.61	0.43
1:A1:158:U:HO2'	1:A1:159:U:H3'	1.84	0.43
1:A1:169:A:C8	1:A1:171:A:N6	2.85	0.43
1:A1:321:C:N4	1:A1:341:A:OP2	2.50	0.43
1:A1:323:A:O2'	1:A1:324:U:C5'	2.67	0.43
1:A1:478:A:C2	1:A1:510:G:C2	3.07	0.43
1:A1:542:A:H2'	1:A1:542:A:N3	2.33	0.43
1:A1:577:G:H3'	1:A1:577:G:P	2.59	0.43
1:A1:628:G:N2	1:A1:970:A:OP2	2.51	0.43
1:A1:717:C:H3'	1:A1:717:C:O2	2.19	0.43
1:A1:827:C:C4'	1:A1:828:U:OP1	2.66	0.43
1:A1:900:A:C2	1:A1:901:G:H1'	2.53	0.43
1:A1:900:A:O2'	1:A1:916:U:H4'	2.18	0.43
1:A1:946:U:O2	1:A1:946:U:C2'	2.66	0.43
1:A1:1002:G:C5	1:A1:1003:A:C2	3.07	0.43
1:A1:1042:G:C6	1:A1:1043:A:C5	3.06	0.43
1:A1:1096:C:O2	1:A1:1098:U:OP2	2.35	0.43
1:A1:1205:C:H6	1:A1:1206:U:C2	2.36	0.43
1:A1:1228:G:C5	1:A1:1229:G:C8	3.05	0.43
1:A1:1266:U:H5"	1:A1:1267:G:OP2	2.18	0.43
1:A1:1287:A:O2'	1:A1:1288:G:C8	2.71	0.43
1:A1:1294:G:N3	1:A1:1295:G:C8	2.86	0.43
1:A1:1536:G:C2	1:A1:1538:U:N3	2.82	0.43
1:A1:1558:U:C6	1:A1:1559:A:N3	2.86	0.43
1:A1:1579:U:O4	1:A1:1580:C:N4	2.51	0.43
1:A1:1596:C:O2'	1:A1:1597:A:H3'	2.19	0.43
2:AA:80:THR:C	2:AA:82:GLY:N	2.75	0.43
2:AA:126:PRO:O	2:AA:130:ALA:HB2	2.18	0.43
2:AA:171:GLY:C	2:AA:173:ILE:H	2.27	0.43
4:AC:98:ALA:C	4:AC:100:ALA:N	2.76	0.43
9:AH:83:ILE:O	9:AH:117:ASP:HA	2.19	0.43
11:AJ:35:PRO:O	11:AJ:38:LEU:N	2.51	0.43
12:AK:33:ARG:C	12:AK:35:CYS:N	2.76	0.43
20:AS:23:VAL:CB	74:AS:101:OHX:N1	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Ab:64:UNK:CB	23:Ab:68:UNK:HA	2.48	0.43
29:B1:117:U:C5	29:B1:118:U:H5	2.36	0.43
29:B1:192:C:N3	29:B1:193:C:C5	2.87	0.43
29:B1:198:A:H2	29:B1:219:A:C8	2.36	0.43
29:B1:282:G:H4'	29:B1:283:G:OP2	2.17	0.43
29:B1:340:C:H5"	29:B1:340:C:H6	1.83	0.43
29:B1:382:U:C4	29:B1:383:G:N9	2.87	0.43
29:B1:422:A:C4	29:B1:423:A:H5"	2.53	0.43
29:B1:428:A:H2'	29:B1:429:U:O4'	2.18	0.43
29:B1:589:A:C5'	29:B1:611:A:H2	2.31	0.43
29:B1:606:C:H6	29:B1:606:C:C4'	2.26	0.43
29:B1:632:G:C2'	29:B1:633:C:O5'	2.67	0.43
29:B1:789:A:H2'	29:B1:790:U:H6	1.79	0.43
29:B1:830:A:C4	29:B1:865:U:O2	2.71	0.43
29:B1:844:G:C6	29:B1:845:G:C6	3.06	0.43
29:B1:1114:U:C5	29:B1:1115:G:N2	2.86	0.43
29:B1:1145:G:N3	29:B1:1160:C:C4	2.87	0.43
29:B1:1183:C:C3'	29:B1:1184:A:C5'	2.96	0.43
29:B1:1393:A:H2	29:B1:1394:A:C1'	2.32	0.43
29:B1:1397:C:C4	29:B1:1398:U:O4	2.72	0.43
29:B1:1495:U:O3'	29:B1:1514:G:C5'	2.65	0.43
29:B1:1543:G:N3	29:B1:1544:G:C8	2.86	0.43
29:B1:1627:U:C3'	29:B1:1628:C:O4'	2.66	0.43
29:B1:1804:A:C4	29:B1:1805:C:C6	3.06	0.43
29:B1:1896:A:N3	29:B1:3093:C:C5	2.86	0.43
29:B1:2182:A:C2	29:B1:2183:A:C5	3.06	0.43
29:B1:2199:G:C2	29:B1:2200:U:C6	3.06	0.43
29:B1:2255:A:N1	29:B1:2260:U:O4	2.52	0.43
29:B1:2256:A:O2'	29:B1:2257:C:OP2	2.36	0.43
29:B1:2278:C:C4	29:B1:2305:G:C5	3.06	0.43
29:B1:2284:C:C5'	29:B1:2285:C:OP2	2.66	0.43
29:B1:2372:A:O2'	29:B1:2373:A:P	2.77	0.43
29:B1:2406:C:H2'	29:B1:2407:C:C6	2.52	0.43
29:B1:2517:U:O2	29:B1:2517:U:C2'	2.63	0.43
29:B1:2630:C:C4	29:B1:2649:A:N1	2.86	0.43
29:B1:2719:U:C5	29:B1:2720:G:N7	2.86	0.43
29:B1:2857:C:C2	29:B1:2858:U:C6	3.06	0.43
29:B1:2917:G:HO2'	29:B1:2918:G:P	2.41	0.43
29:B1:2947:G:N3	29:B1:2948:C:C5	2.86	0.43
29:B1:2997:G:C1'	29:B1:2998:U:OP2	2.66	0.43
29:B1:3055:U:H5"	29:B1:3056:U:C5	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3141:A:H5'	29:B1:3143:C:C1'	2.48	0.43
29:B1:3187:A:C2	29:B1:3188:G:N9	2.85	0.43
29:B1:3191:G:C5	29:B1:3202:G:N2	2.85	0.43
29:B1:3225:C:H5	74:B1:3420:OHX:N3	2.17	0.43
30:B2:30:G:C6	30:B2:49:G:N1	2.85	0.43
35:BD:18:ASN:O	35:BD:19:ALA:HB2	2.18	0.43
35:BD:163:LYS:O	35:BD:164:GLU:C	2.61	0.43
36:BE:226:TYR:CB	36:BE:232:ASP:H	2.32	0.43
37:BF:92:SER:C	37:BF:94:GLU:N	2.76	0.43
38:BG:38:LYS:O	38:BG:39:GLU:C	2.61	0.43
38:BG:74:SER:CB	38:BG:75:TYR:C	2.91	0.43
38:BG:152:GLY:O	38:BG:153:PHE:CB	2.65	0.43
38:BG:180:SER:O	38:BG:181:ILE:C	2.59	0.43
41:BJ:20:SER:O	41:BJ:21:ARG:C	2.61	0.43
44:BO:146:ALA:HB1	44:BO:149:ASN:CB	2.48	0.43
45:BP:27:LEU:O	45:BP:30:GLY:N	2.48	0.43
46:BQ:28:ASN:O	46:BQ:29:THR:C	2.62	0.43
49:BT:20:ARG:O	49:BT:22:HIS:N	2.47	0.43
51:BV:5:ILE:O	51:BV:6:ASP:CB	2.66	0.43
62:Bg:25:GLN:O	62:Bg:28:LYS:N	2.51	0.43
62:Bg:73:THR:O	62:Bg:74:ALA:HB3	2.18	0.43
1:C1:50:C:C5	1:C1:424:C:C5	3.06	0.43
1:C1:147:A:H2'	1:C1:148:A:H1'	1.99	0.43
1:C1:179:A:N6	1:C1:180:A:H62	2.16	0.43
1:C1:250:C:O2	1:C1:251:A:N9	2.52	0.43
1:C1:287:G:C2'	1:C1:288:A:H5'	2.48	0.43
1:C1:308:C:C6	1:C1:308:C:H5'	2.54	0.43
1:C1:642:G:C6	1:C1:643:G:C6	3.06	0.43
1:C1:727:U:H2'	1:C1:728:U:H6	1.83	0.43
1:C1:755:A:C1'	1:C1:756:A:C8	3.00	0.43
1:C1:800:U:H2'	1:C1:800:U:O2	2.19	0.43
1:C1:853:G:N1	1:C1:854:U:O4	2.51	0.43
1:C1:862:A:H1'	1:C1:963:A:N1	2.33	0.43
1:C1:929:A:N7	1:C1:930:A:C5	2.86	0.43
1:C1:1201:G:N3	1:C1:1201:G:O5'	2.51	0.43
1:C1:1231:U:C2	1:C1:1258:U:H5'	2.53	0.43
1:C1:1237:G:N3	1:C1:1238:A:C8	2.87	0.43
1:C1:1245:G:N7	1:C1:1246:C:C5	2.87	0.43
1:C1:1272:U:O4	1:C1:1431:C:O2	2.36	0.43
1:C1:1437:U:O2'	1:C1:1438:G:H5"	2.18	0.43
1:C1:1491:U:H3'	1:C1:1492:A:H5"	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1624:C:O2	1:C1:1624:C:C2'	2.66	0.43
1:C1:1707:A:H2'	1:C1:1708:U:O2	2.17	0.43
1:C1:1722:A:H3'	1:C1:1723:U:H6	1.82	0.43
2:CA:87:LEU:O	2:CA:88:LYS:C	2.60	0.43
2:CA:181:VAL:O	2:CA:182:LEU:C	2.62	0.43
3:CB:133:LYS:C	3:CB:135:SER:H	2.26	0.43
4:CC:27:ARG:O	4:CC:28:GLU:C	2.62	0.43
5:CD:164:PRO:C	5:CD:166:ARG:N	2.76	0.43
10:CI:18:ARG:O	10:CI:21:ASP:CB	2.65	0.43
11:CJ:43:ILE:C	11:CJ:45:ARG:H	2.26	0.43
16:CO:119:LYS:O	16:CO:121:VAL:N	2.51	0.43
17:CP:92:CYS:C	17:CP:94:ASN:N	2.76	0.43
17:CP:99:ASN:O	17:CP:100:ASP:O	2.35	0.43
21:CT:85:TRP:C	21:CT:87:LYS:N	2.76	0.43
21:CT:218:GLY:O	21:CT:236:ALA:HB3	2.17	0.43
23:Cb:45:UNK:N	23:Cb:48:UNK:CB	2.81	0.43
29:D1:32:U:H2'	29:D1:33:G:H8	1.83	0.43
29:D1:88:A:C8	29:D1:99:A:N6	2.86	0.43
29:D1:112:U:C4	29:D1:320:G:C6	3.07	0.43
29:D1:131:C:O2	29:D1:132:C:H1'	2.19	0.43
29:D1:138:U:C2	29:D1:139:G:C8	3.07	0.43
29:D1:155:G:C8	29:D1:157:A:C2	3.05	0.43
29:D1:192:C:C4	29:D1:204:A:C2	3.06	0.43
29:D1:212:G:C4	29:D1:222:A:C8	3.06	0.43
29:D1:401:U:O2	29:D1:401:U:O4'	2.32	0.43
29:D1:644:G:N1	29:D1:2868:U:OP1	2.45	0.43
29:D1:701:G:C5	29:D1:702:C:C4	3.06	0.43
29:D1:716:A:C5	29:D1:721:G:N2	2.78	0.43
29:D1:804:C:N3	29:D1:940:G:C2	2.86	0.43
29:D1:843:A:O2'	29:D1:844:G:H5'	2.18	0.43
29:D1:1063:G:OP2	29:D1:1098:A:OP2	2.36	0.43
29:D1:1090:G:O2'	29:D1:1091:A:H5'	2.18	0.43
29:D1:1131:G:C4	29:D1:2373:A:N1	2.85	0.43
29:D1:1155:C:O5'	29:D1:1156:C:OP2	2.37	0.43
29:D1:1157:G:H2'	29:D1:1158:A:C1'	2.45	0.43
29:D1:1325:U:C2	29:D1:1326:A:C8	3.07	0.43
29:D1:1415:U:H5"	29:D1:1416:C:OP2	2.18	0.43
29:D1:1454:A:C5'	29:D1:1878:G:H1	2.30	0.43
29:D1:1573:G:C8	29:D1:1574:C:C6	3.06	0.43
29:D1:1661:G:N2	29:D1:1789:G:H1'	2.33	0.43
29:D1:1779:C:C4'	29:D1:1780:G:C5'	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1882:G:H5”	29:D1:1883:A:OP2	2.18	0.43
29:D1:2130:G:O6	29:D1:2323:G:C6	2.72	0.43
29:D1:2175:U:C3’	29:D1:2176:U:H5’	2.47	0.43
29:D1:2202:C:H5”	33:DB:225:ILE:CA	2.48	0.43
29:D1:2259:A:C8	29:D1:2260:U:C4	3.06	0.43
29:D1:2289:U:O2’	29:D1:2290:C:C5’	2.65	0.43
29:D1:2291:A:C2	29:D1:2292:U:C2	3.07	0.43
29:D1:2297:U:N3	29:D1:2299:A:N6	2.66	0.43
29:D1:2383:C:C5	29:D1:2384:A:N7	2.87	0.43
29:D1:2390:A:N6	29:D1:2391:G:C6	2.85	0.43
29:D1:2434:U:C2	29:D1:2593:A:O2’	2.71	0.43
29:D1:2441:A:H3’	29:D1:2442:G:H8	1.83	0.43
29:D1:2469:G:N2	29:D1:2488:A:C2	2.86	0.43
29:D1:2506:U:O5’	29:D1:2506:U:H6	2.01	0.43
29:D1:2515:A:N6	29:D1:2593:A:C8	2.86	0.43
29:D1:2687:G:C3’	29:D1:2687:G:C4	3.01	0.43
29:D1:2854:U:C2’	29:D1:2855:U:H5’	2.48	0.43
29:D1:2959:C:H5”	29:D1:2960:C:OP2	2.18	0.43
29:D1:2981:U:C2’	29:D1:2982:A:H5”	2.48	0.43
29:D1:2992:U:OP1	29:D1:3310:A:O2’	2.25	0.43
29:D1:3041:U:HO2’	29:D1:3042:U:H5’	1.81	0.43
29:D1:3110:C:N3	29:D1:3111:U:C5	2.86	0.43
29:D1:3181:C:C1’	45:DP:167:TYR:CB	2.95	0.43
29:D1:3182:G:O2’	29:D1:3183:A:C5’	2.66	0.43
29:D1:3184:A:H8	29:D1:3184:A:C5’	2.23	0.43
30:D2:30:G:C5	30:D2:31:U:N3	2.87	0.43
30:D2:76:A:C5	30:D2:78:U:O4	2.72	0.43
30:D2:90:U:O2	30:D2:90:U:C2’	2.66	0.43
31:D3:35:C:C5	31:D3:36:G:N7	2.87	0.43
31:D3:42:G:C2	31:D3:43:A:C8	3.06	0.43
33:DB:5:ILE:O	33:DB:6:ARG:CB	2.65	0.43
33:DB:65:ASP:O	33:DB:66:PRO:CB	2.65	0.43
35:DD:97:GLY:O	35:DD:98:ARG:C	2.61	0.43
35:DD:220:ARG:C	35:DD:222:VAL:H	2.25	0.43
36:DE:19:PRO:O	36:DE:20:PHE:CB	2.62	0.43
38:DG:98:LYS:O	38:DG:100:ARG:N	2.52	0.43
39:DH:122:LYS:C	39:DH:124:ASP:H	2.26	0.43
40:DI:171:ASP:O	40:DI:172:ILE:C	2.60	0.43
44:DO:85:THR:CA	44:DO:86:ASN:CB	2.96	0.43
49:DT:13:TYR:O	49:DT:16:GLN:CB	2.66	0.43
53:DX:24:SER:C	53:DX:26:GLN:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Dg:65:ALA:O	62:Dg:66:GLY:C	2.61	0.43
63:Dh:3:UNK:O	63:Dh:4:UNK:CB	2.63	0.43
65:Dk:11:UNK:O	65:Dk:13:UNK:N	2.51	0.43
1:A1:9:U:C2	1:A1:11:A:OP2	2.71	0.43
1:A1:145:A:N1	1:A1:171:A:N1	2.66	0.43
1:A1:204:G:N2	1:A1:264:G:C2	2.86	0.43
1:A1:250:C:H3'	1:A1:250:C:P	2.54	0.43
1:A1:359:A:N3	1:A1:359:A:C2'	2.82	0.43
1:A1:359:A:N3	1:A1:359:A:H2'	2.34	0.43
1:A1:378:A:C2	1:A1:379:U:H5"	2.53	0.43
1:A1:387:A:C2	1:A1:402:C:H5	2.36	0.43
1:A1:407:A:C4	1:A1:408:C:C5	3.06	0.43
1:A1:550:A:O4'	1:A1:556:A:C2	2.72	0.43
1:A1:568:G:H2'	1:A1:569:C:H5'	1.98	0.43
1:A1:623:A:N1	1:A1:1105:C:C4'	2.81	0.43
1:A1:634:G:C2	1:A1:966:A:C5	3.06	0.43
1:A1:702:G:N1	1:A1:703:G:C6	2.86	0.43
1:A1:765:G:C4'	1:A1:766:U:OP1	2.64	0.43
1:A1:798:C:O2'	1:A1:799:A:H5'	2.19	0.43
1:A1:1008:G:C2	1:A1:1009:U:C1'	2.98	0.43
1:A1:1028:C:C1'	1:A1:1029:U:H5"	2.44	0.43
1:A1:1042:G:H2'	1:A1:1043:A:H8	1.80	0.43
1:A1:1086:A:N7	1:A1:1087:A:C5	2.87	0.43
1:A1:1124:A:N6	1:A1:1125:A:N1	2.65	0.43
1:A1:1155:G:H2'	1:A1:1156:C:C6	2.53	0.43
1:A1:1179:G:C2	1:A1:1180:C:H1'	2.53	0.43
1:A1:1362:U:C3'	1:A1:1363:U:O4'	2.50	0.43
1:A1:1592:A:C4	1:A1:1593:A:C8	3.06	0.43
1:A1:1630:U:C4'	1:A1:1765:A:OP1	2.56	0.43
1:A1:1736:G:O2'	1:A1:1737:G:H5'	2.19	0.43
2:AA:42:PRO:O	2:AA:43:ASP:C	2.61	0.43
2:AA:75:ALA:HB1	2:AA:122:ILE:O	2.18	0.43
10:AI:91:GLY:HA2	10:AI:107:ILE:O	2.18	0.43
12:AK:50:ILE:O	12:AK:54:THR:N	2.39	0.43
17:AP:43:PHE:C	17:AP:45:GLY:N	2.74	0.43
17:AP:48:HIS:HA	17:AP:105:ALA:CB	2.41	0.43
21:AT:27:ALA:HB2	21:AT:296:ALA:HB1	1.99	0.43
24:Ac:9:UNK:C	24:Ac:64:UNK:CB	2.96	0.43
24:Ac:24:UNK:C	24:Ac:26:UNK:N	2.80	0.43
26:Ae:3:UNK:O	26:Ae:7:UNK:N	2.52	0.43
28:Ah:6:UNK:O	28:Ah:7:UNK:C	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:22:G:H2'	29:B1:23:A:O4'	2.18	0.43
29:B1:25:U:O4	29:B1:331:G:C8	2.72	0.43
29:B1:47:C:C6	29:B1:48:A:C8	3.07	0.43
29:B1:75:G:C6	29:B1:76:G:N1	2.86	0.43
29:B1:97:U:H2'	29:B1:97:U:O2	2.19	0.43
29:B1:102:C:C1'	29:B1:103:G:P	3.06	0.43
29:B1:107:A:H1'	29:B1:325:A:N3	2.33	0.43
29:B1:197:G:H21	29:B1:218:G:H21	1.65	0.43
29:B1:282:G:N2	29:B1:286:U:C4'	2.59	0.43
29:B1:297:G:H4'	29:B1:299:G:C4'	2.47	0.43
29:B1:412:G:C4	29:B1:413:U:C5	3.06	0.43
29:B1:509:U:O2	29:B1:509:U:C2'	2.66	0.43
29:B1:521:A:N7	29:B1:572:A:C5	2.86	0.43
29:B1:580:C:N4	29:B1:581:U:O4	2.51	0.43
29:B1:634:C:C2	29:B1:635:G:C8	3.07	0.43
29:B1:665:A:N6	29:B1:666:A:C6	2.86	0.43
29:B1:682:U:C6	29:B1:683:U:C5	3.06	0.43
29:B1:682:U:C6	29:B1:683:U:H5	2.36	0.43
29:B1:712:G:C5	29:B1:713:U:C4	3.06	0.43
29:B1:825:U:C2	29:B1:826:G:C8	3.07	0.43
29:B1:832:G:N2	29:B1:863:C:C2	2.86	0.43
29:B1:866:A:C5'	29:B1:867:G:OP2	2.66	0.43
29:B1:941:G:C5	29:B1:942:U:C5	3.07	0.43
29:B1:987:U:C2	29:B1:988:U:C5	3.07	0.43
29:B1:1049:C:N3	29:B1:1050:U:C5	2.86	0.43
29:B1:1176:C:C3'	29:B1:1177:G:H5"	2.49	0.43
29:B1:1193:A:N7	29:B1:1194:G:C6	2.85	0.43
29:B1:1212:A:H3'	29:B1:1213:G:H5"	1.99	0.43
29:B1:1225:A:C2	29:B1:1226:G:H1'	2.53	0.43
29:B1:1397:C:H2'	29:B1:1398:U:C6	2.53	0.43
29:B1:1463:U:N3	29:B1:1464:G:N7	2.67	0.43
29:B1:1506:A:C6	29:B1:1513:G:C6	3.06	0.43
29:B1:1557:A:C5	29:B1:1558:A:H1'	2.53	0.43
29:B1:1673:G:C6	29:B1:1775:G:C6	3.06	0.43
29:B1:1687:U:O2	29:B1:3069:G:C2	2.71	0.43
29:B1:1687:U:C3'	29:B1:1688:U:H4'	2.47	0.43
29:B1:1728:G:H5"	29:B1:1729:A:H3'	2.00	0.43
29:B1:1857:C:H2'	29:B1:1858:A:C8	2.53	0.43
29:B1:2125:A:C2	29:B1:2329:C:C2	3.06	0.43
29:B1:2133:U:H2'	29:B1:2134:G:H5'	2.00	0.43
29:B1:2348:A:H3'	29:B1:2349:U:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2576:G:C2	29:B1:2577:C:C2	3.06	0.43
29:B1:2901:G:H2'	29:B1:2902:A:C8	2.53	0.43
29:B1:3010:U:C2'	29:B1:3011:A:H5'	2.49	0.43
29:B1:3030:G:C2'	29:B1:3031:G:O4'	2.66	0.43
29:B1:3157:U:N3	29:B1:3293:U:N1	2.66	0.43
29:B1:3253:G:H5"	29:B1:3254:G:OP2	2.19	0.43
29:B1:3302:U:HO2'	29:B1:3303:G:C4'	2.30	0.43
29:B1:3342:A:P	29:B1:3343:G:N2	2.91	0.43
29:B1:3381:U:C2	29:B1:3383:G:N1	2.86	0.43
29:B1:3388:C:O2'	29:B1:3389:U:C6	2.71	0.43
30:B2:78:U:O2'	30:B2:79:A:O5'	2.36	0.43
30:B2:88:G:C6	30:B2:89:G:C5	3.07	0.43
31:B3:18:U:C2	31:B3:19:C:C5	3.06	0.43
34:BC:186:GLY:O	34:BC:187:SER:O	2.37	0.43
34:BC:222:LYS:O	34:BC:271:GLY:C	2.62	0.43
36:BE:40:HIS:N	36:BE:41:LYS:CB	2.82	0.43
36:BE:91:GLY:O	36:BE:92:LEU:C	2.62	0.43
36:BE:250:ASP:C	36:BE:251:PRO:O	2.59	0.43
38:BG:49:ALA:O	38:BG:50:ALA:C	2.61	0.43
38:BG:193:PRO:O	38:BG:194:HIS:C	2.61	0.43
44:BO:121:VAL:O	44:BO:122:ASN:CB	2.67	0.43
49:BT:75:ILE:HA	49:BT:89:LEU:O	2.18	0.43
50:BU:24:ASN:O	50:BU:99:ALA:HA	2.19	0.43
52:BW:88:MET:O	52:BW:90:ALA:N	2.46	0.43
54:BY:20:GLY:O	54:BY:22:ILE:N	2.50	0.43
57:Bb:4:LEU:C	57:Bb:6:HIS:N	2.74	0.43
57:Bb:66:LEU:HA	57:Bb:67:SER:CB	2.48	0.43
57:Bb:103:LYS:O	57:Bb:105:ARG:N	2.52	0.43
65:Bk:11:UNK:O	65:Bk:12:UNK:O	2.33	0.43
1:C1:269:G:C4	1:C1:287:G:N2	2.87	0.43
1:C1:281:G:N3	1:C1:281:G:H2'	2.33	0.43
1:C1:295:A:C2	1:C1:296:U:O4'	2.71	0.43
1:C1:328:A:C6	1:C1:341:A:N6	2.86	0.43
1:C1:371:G:C6	1:C1:372:G:C2	3.07	0.43
1:C1:428:A:O3'	1:C1:439:U:H2'	2.19	0.43
1:C1:469:C:N3	1:C1:469:C:P	2.92	0.43
1:C1:488:G:O2'	1:C1:489:C:P	2.76	0.43
1:C1:519:C:C4	1:C1:534:A:C2	3.07	0.43
1:C1:536:C:C4	1:C1:537:G:N7	2.87	0.43
1:C1:542:A:H2'	1:C1:542:A:N3	2.34	0.43
1:C1:755:A:C4	1:C1:756:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:812:A:C6	1:C1:859:A:N7	2.87	0.43
1:C1:814:A:C6	1:C1:858:G:C2	3.06	0.43
1:C1:899:G:H5'	9:CH:45:GLY:HA2	2.00	0.43
1:C1:1016:C:H2'	1:C1:1017:U:H5'	1.99	0.43
1:C1:1185:U:H1'	1:C1:1186:U:OP2	2.19	0.43
1:C1:1245:G:C5	1:C1:1246:C:C6	3.06	0.43
1:C1:1251:U:C4	1:C1:1252:C:C5	3.07	0.43
1:C1:1291:G:N2	1:C1:1324:G:N1	2.48	0.43
1:C1:1345:A:C2'	1:C1:1346:A:C8	3.00	0.43
1:C1:1485:C:H42	1:C1:1592:A:C4'	2.31	0.43
1:C1:1550:A:C2	1:C1:1562:G:C6	3.06	0.43
1:C1:1598:U:H2'	1:C1:1599:C:O5'	2.18	0.43
1:C1:1693:A:N1	1:C1:1708:U:N3	2.66	0.43
1:C1:1705:C:C5	1:C1:1706:C:C5	3.07	0.43
1:C1:1765:A:P	74:C1:1983:OHX:N4	2.92	0.43
6:CE:68:LYS:O	6:CE:70:LEU:N	2.52	0.43
6:CE:135:ALA:O	6:CE:155:HIS:O	2.36	0.43
8:CG:114:ARG:C	8:CG:116:ILE:N	2.74	0.43
16:CO:17:ALA:O	16:CO:19:LYS:N	2.51	0.43
17:CP:71:CYS:HA	17:CP:86:PHE:HA	2.00	0.43
21:CT:297:ASP:O	21:CT:299:GLN:N	2.51	0.43
29:D1:6:A:N1	31:D3:154:C:C2	2.87	0.43
29:D1:39:A:C5'	29:D1:40:A:H4'	2.48	0.43
29:D1:64:G:N1	29:D1:322:U:C5	2.87	0.43
29:D1:72:C:C5	29:D1:73:C:N1	2.87	0.43
29:D1:72:C:C4	29:D1:73:C:C1'	3.01	0.43
29:D1:108:A:C2'	29:D1:109:A:H5"	2.49	0.43
29:D1:238:A:O2'	29:D1:239:G:O5'	2.36	0.43
29:D1:296:A:C5	29:D1:297:G:C2	3.06	0.43
29:D1:296:A:C5	29:D1:297:G:N1	2.86	0.43
29:D1:346:C:C4	29:D1:348:A:C8	3.05	0.43
29:D1:692:A:C2'	29:D1:693:A:H8	2.31	0.43
29:D1:728:G:C2	29:D1:742:G:C6	3.07	0.43
29:D1:736:A:N7	29:D1:737:G:N7	2.67	0.43
29:D1:901:G:C5	29:D1:902:G:N7	2.85	0.43
29:D1:939:U:H2'	29:D1:940:G:O5'	2.18	0.43
29:D1:943:U:H5'	29:D1:943:U:H6	1.84	0.43
29:D1:947:G:C5	29:D1:1373:A:C2	3.06	0.43
29:D1:1009:A:C2	29:D1:1042:U:C2	3.07	0.43
29:D1:1053:A:N3	29:D1:1053:A:C2'	2.81	0.43
29:D1:1066:G:H2'	29:D1:1067:U:C1'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1112:A:N3	29:D1:1370:G:O2'	2.52	0.43
29:D1:1135:A:H2'	29:D1:1136:A:H5'	1.98	0.43
29:D1:1164:G:C4	29:D1:1165:A:N7	2.87	0.43
29:D1:1212:A:C2	29:D1:1213:G:N9	2.87	0.43
29:D1:1259:A:N3	29:D1:1280:C:O2'	2.39	0.43
29:D1:1377:G:C6	29:D1:1431:G:O6	2.71	0.43
29:D1:1470:U:H2'	29:D1:1471:U:C6	2.53	0.43
29:D1:1483:G:C8	29:D1:1485:G:C8	3.06	0.43
29:D1:1497:C:O2'	29:D1:1498:A:H5'	2.18	0.43
29:D1:1528:G:C6	29:D1:1529:A:C5	3.07	0.43
29:D1:1658:G:C5	29:D1:1796:G:O6	2.72	0.43
29:D1:1687:U:C2'	29:D1:1688:U:O2'	2.67	0.43
29:D1:1736:G:C4	29:D1:1737:U:C5	3.07	0.43
29:D1:1898:G:C8	29:D1:1899:G:C8	3.07	0.43
29:D1:2207:A:C8	29:D1:2237:C:C2	3.06	0.43
29:D1:2211:U:O2'	29:D1:2212:C:H5'	2.19	0.43
29:D1:2213:A:N1	29:D1:2214:A:C6	2.86	0.43
29:D1:2289:U:O2	29:D1:2290:C:C6	2.72	0.43
29:D1:2290:C:H2'	29:D1:2291:A:C8	2.50	0.43
29:D1:2471:U:H4'	32:DA:23:THR:CB	2.49	0.43
29:D1:2531:C:H42	29:D1:2548:C:N4	2.17	0.43
29:D1:2717:U:C5'	29:D1:2717:U:C6	3.01	0.43
29:D1:2749:G:C8	29:D1:2750:U:C5	3.07	0.43
29:D1:2767:U:OP1	61:Df:33:ALA:CB	2.67	0.43
29:D1:2823:G:C6	29:D1:2824:G:C5	3.07	0.43
29:D1:2881:C:O2	29:D1:2882:U:C6	2.71	0.43
29:D1:2922:G:C2	29:D1:2923:U:O2	2.72	0.43
29:D1:2997:G:O2'	29:D1:2998:U:O5'	2.35	0.43
29:D1:3144:G:C5	74:D1:3431:OHX:N1	2.86	0.43
29:D1:3202:G:P	29:D1:3202:G:C3'	3.07	0.43
29:D1:3203:U:O5'	29:D1:3204:C:OP2	2.36	0.43
29:D1:3314:A:C2'	34:DC:119:TYR:O	2.66	0.43
29:D1:3344:A:N6	29:D1:3362:A:C6	2.78	0.43
30:D2:1:G:N3	30:D2:1:G:C2'	2.77	0.43
30:D2:98:C:O2	30:D2:98:C:C2'	2.52	0.43
31:D3:136:G:OP1	52:DW:52:PRO:CB	2.67	0.43
35:DD:25:VAL:O	35:DD:28:ALA:N	2.33	0.43
36:DE:67:SER:O	36:DE:68:THR:CB	2.66	0.43
41:DJ:39:LYS:O	41:DJ:41:ALA:N	2.51	0.43
73:DM:191:TYR:O	73:DM:192:ASP:CB	2.66	0.43
43:DN:24:LYS:O	43:DN:25:LYS:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:25:LYS:O	45:DP:26:GLN:C	2.61	0.43
45:DP:54:TYR:C	45:DP:56:ASP:H	2.26	0.43
46:DQ:14:SER:CB	46:DQ:151:THR:HA	2.48	0.43
46:DQ:65:SER:O	46:DQ:66:SER:CB	2.67	0.43
47:DR:117:ALA:CB	47:DR:118:GLY:CA	2.93	0.43
47:DR:148:GLU:HA	47:DR:149:ALA:HA	1.45	0.43
48:DS:158:GLU:O	48:DS:161:ALA:HB3	2.19	0.43
52:DW:92:LYS:C	52:DW:94:GLN:N	2.76	0.43
56:Da:14:ILE:O	56:Da:15:ASN:CB	2.65	0.43
1:A1:32:U:H2'	1:A1:33:U:O5'	2.19	0.43
1:A1:54:C:H2'	1:A1:54:C:O2	2.17	0.43
1:A1:60:U:O5'	1:A1:454:U:O4'	2.37	0.43
1:A1:93:A:C4	1:A1:399:A:N3	2.86	0.43
1:A1:123:G:N1	1:A1:295:A:C6	2.86	0.43
1:A1:133:U:C1'	1:A1:134:U:P	3.06	0.43
1:A1:204:G:N2	1:A1:205:U:O2	2.51	0.43
1:A1:228:G:N1	1:A1:229:U:C2	2.87	0.43
1:A1:269:G:C6	1:A1:287:G:C2	3.06	0.43
1:A1:409:C:H4'	1:A1:1732:A:O3'	2.19	0.43
1:A1:452:A:C2'	1:A1:453:U:C5'	2.87	0.43
1:A1:478:A:C2	1:A1:479:C:N3	2.87	0.43
1:A1:522:U:H3'	1:A1:522:U:C6	2.53	0.43
1:A1:896:U:C5	1:A1:897:C:C4	3.06	0.43
1:A1:938:G:N2	1:A1:942:G:N3	2.65	0.43
1:A1:948:G:C4	1:A1:949:C:C5	3.07	0.43
1:A1:1116:A:C2	1:A1:1117:U:C2	3.06	0.43
1:A1:1151:A:C2	1:A1:1152:A:C8	3.07	0.43
1:A1:1219:A:N3	1:A1:1219:A:O5'	2.51	0.43
1:A1:1477:G:C2'	1:A1:1478:G:C5'	2.96	0.43
1:A1:1525:A:C2	1:A1:1526:A:C5	3.06	0.43
1:A1:1585:U:C2'	1:A1:1586:A:H5'	2.49	0.43
1:A1:1594:G:C6	1:A1:1595:U:C2	3.06	0.43
1:A1:1723:U:C4	1:A1:1724:U:C5	3.07	0.43
1:A1:1745:G:H8	1:A1:1745:G:O5'	2.01	0.43
1:A1:1756:A:H2'	1:A1:1757:G:C5'	2.45	0.43
1:A1:1777:G:C6	1:A1:1778:G:N7	2.87	0.43
2:AA:20:ALA:C	2:AA:22:THR:H	2.26	0.43
3:AB:55:GLU:O	3:AB:56:ILE:C	2.62	0.43
3:AB:170:ILE:O	3:AB:196:VAL:HA	2.18	0.43
4:AC:102:ALA:O	4:AC:106:LYS:CB	2.66	0.43
5:AD:44:ASN:C	5:AD:46:TRP:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:38:ASN:O	6:AE:39:LYS:O	2.37	0.43
11:AJ:42:GLU:O	11:AJ:43:ILE:C	2.60	0.43
11:AJ:92:TYR:CB	11:AJ:93:HIS:O	2.67	0.43
13:AL:42:TYR:O	13:AL:43:SER:C	2.62	0.43
17:AP:54:LEU:H	17:AP:74:VAL:HA	1.84	0.43
19:AR:28:VAL:O	19:AR:29:ARG:CB	2.66	0.43
23:Ab:78:UNK:O	23:Ab:79:UNK:O	2.37	0.43
23:Ab:102:UNK:O	23:Ab:103:UNK:C	2.67	0.43
29:B1:12:A:C2'	29:B1:13:A:O5'	2.66	0.43
29:B1:25:U:C2	29:B1:330:G:O3'	2.71	0.43
29:B1:61:A:C4	29:B1:62:A:C8	3.06	0.43
29:B1:158:G:C2	29:B1:160:G:H5"	2.53	0.43
29:B1:161:G:O2'	29:B1:162:G:H5'	2.19	0.43
29:B1:187:A:C4	29:B1:211:A:C6	3.07	0.43
29:B1:419:G:N7	74:B3:202:OHX:N6	2.65	0.43
29:B1:511:G:O2'	29:B1:512:U:H5'	2.19	0.43
29:B1:552:G:C6	29:B1:553:U:N3	2.87	0.43
29:B1:559:A:O2'	29:B1:560:G:O5'	2.30	0.43
29:B1:601:U:C2	29:B1:602:A:C8	3.06	0.43
29:B1:603:A:H2'	29:B1:604:G:O4'	2.19	0.43
29:B1:716:A:O3'	29:B1:717:C:H4'	2.16	0.43
29:B1:718:G:OP1	29:B1:719:U:H4'	2.18	0.43
29:B1:771:A:C6	29:B1:772:U:N3	2.86	0.43
29:B1:804:C:N4	29:B1:940:G:N1	2.66	0.43
29:B1:822:G:C2	29:B1:823:C:C2	3.06	0.43
29:B1:952:A:C8	29:B1:952:A:C5'	2.97	0.43
29:B1:956:U:C2'	29:B1:957:C:O5'	2.66	0.43
29:B1:1052:U:C5	29:B1:1053:A:C8	3.06	0.43
29:B1:1079:A:C5	29:B1:1080:A:N6	2.87	0.43
29:B1:1489:A:N3	29:B1:1489:A:C2'	2.82	0.43
29:B1:1683:A:H5"	29:B1:1684:U:OP1	2.18	0.43
29:B1:1692:U:O2'	29:B1:1693:C:H5'	2.19	0.43
29:B1:1730:G:O6	55:BZ:26:GLY:HA2	2.19	0.43
29:B1:1740:U:C3'	29:B1:1741:A:C5'	2.96	0.43
29:B1:1919:G:N2	29:B1:1920:U:C2	2.87	0.43
29:B1:2111:G:H22	51:BV:50:ALA:N	2.13	0.43
29:B1:2140:U:O2'	29:B1:2978:U:H5'	2.18	0.43
29:B1:2189:U:H2'	29:B1:2189:U:O2	2.17	0.43
29:B1:2209:U:C6	29:B1:2209:U:C3'	3.01	0.43
29:B1:2226:U:O2'	29:B1:2227:C:C6	2.68	0.43
29:B1:2279:A:C2	29:B1:2283:G:N2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2281:A:H1'	29:B1:2282:U:OP1	2.18	0.43
29:B1:2346:C:C2'	29:B1:2347:U:H5'	2.49	0.43
29:B1:2365:C:C2'	29:B1:2366:C:O5'	2.66	0.43
29:B1:2463:G:O2'	29:B1:2464:U:H5'	2.19	0.43
29:B1:2564:G:H2'	29:B1:2565:U:O4'	2.19	0.43
29:B1:2571:U:H2'	29:B1:2572:C:C5'	2.48	0.43
29:B1:2752:U:O2	29:B1:2752:U:C3'	2.65	0.43
29:B1:2786:G:C6	29:B1:2787:G:N7	2.87	0.43
29:B1:2900:A:N1	29:B1:2901:G:C5	2.85	0.43
29:B1:2917:G:O6	29:B1:2930:A:C6	2.71	0.43
29:B1:2960:C:H3'	29:B1:2961:G:C8	2.50	0.43
29:B1:2978:U:H4'	29:B1:2979:U:OP2	2.19	0.43
29:B1:3006:A:N1	29:B1:3143:C:C2'	2.82	0.43
29:B1:3007:U:O5'	29:B1:3007:U:H6	2.02	0.43
29:B1:3119:U:O2	29:B1:3121:U:OP1	2.37	0.43
29:B1:3184:A:C2	29:B1:3188:G:O2'	2.67	0.43
29:B1:3214:U:HO2'	29:B1:3217:C:H4'	1.83	0.43
29:B1:3353:G:C6	29:B1:3356:G:C6	3.07	0.43
29:B1:3377:G:C2'	74:B1:3450:OHX:N4	2.82	0.43
30:B2:2:G:N2	30:B2:3:U:C2	2.87	0.43
30:B2:26:C:C6	30:B2:26:C:O5'	2.72	0.43
30:B2:87:G:N1	30:B2:95:A:C6	2.87	0.43
31:B3:56:G:C4	31:B3:57:C:C5	3.07	0.43
31:B3:109:A:H2'	31:B3:110:C:O4'	2.18	0.43
31:B3:140:G:C5	31:B3:141:C:C5	3.07	0.43
33:BB:78:ALA:HB1	33:BB:167:GLY:O	2.17	0.43
33:BB:181:LYS:O	33:BB:182:ALA:O	2.37	0.43
35:BD:25:VAL:C	35:BD:27:SER:N	2.76	0.43
35:BD:84:ARG:CB	35:BD:85:SER:HA	2.49	0.43
35:BD:106:TRP:O	35:BD:107:ARG:O	2.36	0.43
36:BE:281:GLU:C	36:BE:283:ALA:O	2.62	0.43
37:BF:156:LYS:O	37:BF:159:LEU:CA	2.66	0.43
38:BG:56:GLU:O	38:BG:57:THR:C	2.59	0.43
39:BH:221:ASN:O	39:BH:225:LYS:CB	2.67	0.43
41:BJ:56:GLU:O	41:BJ:58:GLU:N	2.52	0.43
41:BJ:202:LYS:O	41:BJ:203:LYS:CB	2.65	0.43
43:BN:24:LYS:CA	43:BN:31:LYS:C	2.92	0.43
44:BO:48:ALA:O	44:BO:51:LEU:O	2.37	0.43
47:BR:37:ALA:O	47:BR:38:ARG:CB	2.66	0.43
47:BR:75:GLY:O	47:BR:76:ALA:CB	2.66	0.43
47:BR:149:ALA:HB3	47:BR:150:VAL:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:141:HIS:O	48:BS:145:ALA:CB	2.67	0.43
51:BV:21:PHE:O	51:BV:22:VAL:CB	2.64	0.43
54:BY:135:GLU:C	54:BY:137:LYS:N	2.75	0.43
62:Bg:59:CYS:C	74:Bg:101:OHX:N5	2.76	0.43
1:C1:47:A:C4	1:C1:425:A:C6	3.06	0.43
1:C1:53:G:C5	1:C1:54:C:C6	3.06	0.43
1:C1:106:U:H3'	1:C1:107:C:C6	2.54	0.43
1:C1:169:A:C8	1:C1:171:A:N6	2.85	0.43
1:C1:190:C:N4	1:C1:192:U:O4	2.52	0.43
1:C1:390:G:N2	1:C1:407:A:N6	2.66	0.43
1:C1:451:A:C6	1:C1:456:A:N1	2.87	0.43
1:C1:498:G:C1'	1:C1:499:U:H5	2.27	0.43
1:C1:500:C:O2	1:C1:501:U:C5	2.71	0.43
1:C1:635:A:C6	1:C1:863:A:C8	3.06	0.43
1:C1:692:C:N4	1:C1:693:U:O4	2.51	0.43
1:C1:710:U:C4	1:C1:729:G:O6	2.71	0.43
1:C1:789:A:N3	1:C1:790:U:C6	2.87	0.43
1:C1:900:A:O2'	1:C1:916:U:H4'	2.19	0.43
1:C1:1164:G:C2'	1:C1:1165:G:O5'	2.67	0.43
1:C1:1192:C:H3'	1:C1:1193:A:H2'	2.00	0.43
1:C1:1206:U:C6	1:C1:1207:C:C6	3.06	0.43
1:C1:1248:C:H2'	1:C1:1249:U:C6	2.53	0.43
1:C1:1378:U:O2	1:C1:1378:U:C2'	2.66	0.43
1:C1:1498:G:C6	1:C1:1510:U:N3	2.86	0.43
1:C1:1541:G:H2'	1:C1:1542:G:C8	2.53	0.43
1:C1:1556:A:C2	1:C1:1560:U:H1'	2.54	0.43
1:C1:1751:C:O2	1:C1:1751:C:C2'	2.61	0.43
5:CD:144:GLU:HA	5:CD:160:VAL:C	2.42	0.43
10:CI:91:GLY:HA2	10:CI:107:ILE:O	2.18	0.43
11:CJ:131:GLY:O	11:CJ:132:LYS:C	2.61	0.43
13:CL:33:THR:C	13:CL:35:ILE:N	2.76	0.43
29:D1:54:C:O2'	29:D1:55:G:C5'	2.65	0.43
29:D1:84:U:OP1	29:D1:701:G:H5"	2.18	0.43
29:D1:112:U:O4	29:D1:320:G:C6	2.71	0.43
29:D1:160:G:H1	29:D1:263:C:HO2'	1.58	0.43
29:D1:268:A:N6	29:D1:296:A:OP2	2.51	0.43
29:D1:384:A:H1'	29:D1:1465:A:C5	2.53	0.43
29:D1:440:A:N3	29:D1:440:A:C2'	2.82	0.43
29:D1:517:G:O3'	29:D1:518:G:O4'	2.36	0.43
29:D1:548:G:C5	29:D1:549:U:H1'	2.53	0.43
29:D1:846:A:C5	29:D1:847:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:853:G:H2'	29:D1:854:G:O4'	2.19	0.43
29:D1:873:C:C3'	29:D1:874:U:H4'	2.49	0.43
29:D1:1029:G:H8	29:D1:1029:G:P	2.41	0.43
29:D1:1225:A:C6	29:D1:1226:G:C5	3.07	0.43
29:D1:1231:A:N6	29:D1:1279:C:N4	2.67	0.43
29:D1:1284:C:N3	29:D1:1285:G:C8	2.87	0.43
29:D1:1298:C:N3	29:D1:1299:U:C5	2.86	0.43
29:D1:1302:A:H1'	29:D1:2887:A:H2	1.78	0.43
29:D1:1412:G:H2'	29:D1:1413:G:O4'	2.18	0.43
29:D1:1422:G:C4	29:D1:1423:C:C5	3.06	0.43
29:D1:1594:A:O2'	29:D1:1614:C:O2	2.35	0.43
29:D1:1629:U:H3'	29:D1:1630:U:C5'	2.47	0.43
29:D1:1631:C:H3'	29:D1:1631:C:P	2.58	0.43
29:D1:1651:U:H2'	29:D1:1652:G:C8	2.54	0.43
29:D1:1688:U:H2'	29:D1:1688:U:O2	2.17	0.43
29:D1:1695:U:O2'	29:D1:1749:A:C6	2.71	0.43
29:D1:1759:C:C3'	29:D1:1760:A:H5"	2.49	0.43
29:D1:1759:C:H2'	29:D1:1760:A:H5"	1.99	0.43
29:D1:1793:C:H6	29:D1:1793:C:H2'	1.52	0.43
29:D1:1815:U:OP2	29:D1:1816:A:C4	2.72	0.43
29:D1:1853:U:O4	74:D1:3576:OHX:N3	2.52	0.43
29:D1:1922:A:H8	29:D1:1922:A:O5'	2.02	0.43
29:D1:2144:A:C4	29:D1:2281:A:N6	2.86	0.43
29:D1:2182:A:C2	29:D1:2183:A:C8	3.06	0.43
29:D1:2219:A:C2'	29:D1:2220:A:H5'	2.49	0.43
29:D1:2281:A:C6	29:D1:2959:C:H1'	2.53	0.43
29:D1:2382:G:O2'	45:DP:70:PRO:N	2.52	0.43
29:D1:2644:C:O3'	41:DJ:117:GLY:HA3	2.19	0.43
29:D1:2654:C:H3'	29:D1:2654:C:C6	2.53	0.43
29:D1:2673:A:C2	29:D1:2674:A:N6	2.86	0.43
29:D1:2673:A:C2	29:D1:2676:A:H8	2.36	0.43
29:D1:2677:G:C6	29:D1:2679:A:C5	3.07	0.43
29:D1:2696:A:C8	29:D1:2696:A:H3'	2.53	0.43
29:D1:2707:C:O2'	29:D1:2708:C:H5'	2.19	0.43
29:D1:3153:U:H5"	29:D1:3293:U:C6	2.52	0.43
29:D1:3189:G:C2	29:D1:3190:C:C5	3.07	0.43
29:D1:3191:G:C5	29:D1:3202:G:C2	3.07	0.43
29:D1:3205:G:N3	29:D1:3205:G:H2'	2.34	0.43
29:D1:3206:C:O2'	74:D1:3597:OHX:N3	2.51	0.43
29:D1:3295:A:H2'	29:D1:3296:A:C8	2.47	0.43
30:D2:46:A:OP2	30:D2:46:A:C4	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:65:G:H2'	30:D2:65:G:N3	2.34	0.43
30:D2:75:G:N2	30:D2:105:C:N4	2.65	0.43
30:D2:82:G:C5	30:D2:99:G:N1	2.87	0.43
31:D3:18:U:C2	31:D3:19:C:C5	3.06	0.43
31:D3:40:A:O2'	31:D3:41:A:OP1	2.36	0.43
31:D3:48:A:N1	31:D3:51:G:C5	2.86	0.43
31:D3:79:A:H2'	31:D3:80:A:O4'	2.18	0.43
31:D3:117:C:C2	31:D3:118:C:C6	3.07	0.43
33:DB:175:VAL:O	33:DB:176:ASP:CB	2.65	0.43
34:DC:295:ALA:N	34:DC:306:THR:H	2.16	0.43
35:DD:234:ASN:O	35:DD:237:GLN:N	2.50	0.43
36:DE:254:LYS:C	36:DE:256:THR:N	2.77	0.43
38:DG:209:ASN:O	38:DG:211:SER:N	2.41	0.43
39:DH:86:THR:C	39:DH:88:ALA:N	2.74	0.43
42:DK:107:ASP:C	42:DK:108:GLU:O	2.61	0.43
42:DK:109:HIS:O	42:DK:110:ILE:CB	2.66	0.43
72:DL:30:PRO:O	72:DL:32:ILE:O	2.36	0.43
44:DO:57:GLN:C	44:DO:59:PHE:N	2.76	0.43
46:DQ:8:SER:O	46:DQ:14:SER:O	2.37	0.43
46:DQ:9:THR:HA	46:DQ:13:LYS:CA	2.48	0.43
49:DT:58:GLN:O	49:DT:60:LYS:N	2.52	0.43
55:DZ:55:GLU:O	55:DZ:56:LEU:C	2.61	0.43
60:De:34:THR:O	60:De:35:ILE:O	2.36	0.43
61:Df:45:ARG:O	61:Df:46:LYS:CB	2.66	0.43
65:Dk:9:UNK:O	65:Dk:10:UNK:C	2.65	0.43
1:A1:34:G:C4	1:A1:35:U:C5	3.07	0.43
1:A1:92:A:H5"	1:A1:93:A:H5"	2.01	0.43
1:A1:276:C:O2'	1:A1:277:U:O5'	2.37	0.43
1:A1:295:A:O2'	1:A1:296:U:O5'	2.37	0.43
1:A1:528:U:H3	1:A1:530:C:H42	1.67	0.43
1:A1:551:G:C4'	1:A1:581:U:O2	2.67	0.43
1:A1:558:U:N3	1:A1:559:C:C4	2.87	0.43
1:A1:704:C:O2'	1:A1:705:U:H6	2.02	0.43
1:A1:841:U:O4	1:A1:842:C:C4	2.72	0.43
1:A1:844:A:N7	74:A1:1932:OHX:N2	2.66	0.43
1:A1:985:G:C6	1:A1:986:G:O6	2.72	0.43
1:A1:1035:G:C6	1:A1:1101:G:C6	3.07	0.43
1:A1:1087:A:HO2'	1:A1:1142:A:HO2'	1.61	0.43
1:A1:1142:A:C2'	1:A1:1143:A:O4'	2.67	0.43
1:A1:1198:G:OP1	1:A1:1200:G:N2	2.51	0.43
1:A1:1201:G:N3	1:A1:1201:G:O5'	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1265:G:C5	1:A1:1266:U:C5	3.07	0.43
1:A1:1265:G:C6	1:A1:1266:U:C4	3.06	0.43
1:A1:1378:U:H3'	1:A1:1379:C:H5"	1.97	0.43
1:A1:1442:U:N3	1:A1:1443:U:O4	2.52	0.43
1:A1:1449:U:H2'	1:A1:1450:U:C6	2.48	0.43
1:A1:1492:A:C1'	1:A1:1493:A:O5'	2.67	0.43
1:A1:1650:U:C2	1:A1:1651:A:C8	3.06	0.43
1:A1:1707:A:H2'	1:A1:1708:U:O2	2.18	0.43
1:A1:1781:A:N1	1:A1:1782:A:N1	2.66	0.43
4:AC:131:ALA:O	4:AC:132:LYS:C	2.61	0.43
13:AL:36:LYS:O	13:AL:102:ALA:C	2.61	0.43
16:AO:13:ALA:O	16:AO:17:ALA:CB	2.66	0.43
16:AO:55:ASP:O	23:Ab:1:UNK:CB	2.66	0.43
21:AT:267:PRO:C	21:AT:269:TYR:N	2.73	0.43
25:Ad:97:UNK:O	25:Ad:98:UNK:C	2.66	0.43
29:B1:66:A:H62	29:B1:76:G:N2	2.16	0.43
29:B1:117:U:C6	29:B1:117:U:C3'	3.01	0.43
29:B1:149:U:OP2	29:B1:149:U:O4'	2.37	0.43
29:B1:278:U:C4	29:B1:279:U:O4	2.71	0.43
29:B1:340:C:C4	31:B3:25:G:N1	2.86	0.43
29:B1:407:A:H5'	29:B1:1396:C:O2'	2.18	0.43
29:B1:496:C:H2'	29:B1:497:C:O5'	2.19	0.43
29:B1:515:C:C2	29:B1:516:A:H8	2.31	0.43
29:B1:547:G:C8	29:B1:548:G:C4	3.06	0.43
29:B1:562:C:OP2	29:B1:562:C:H6	2.01	0.43
29:B1:710:A:H2	29:B1:2774:C:O4'	2.02	0.43
29:B1:916:G:C5	29:B1:924:G:C4	3.06	0.43
29:B1:934:G:C2	29:B1:935:U:C6	3.07	0.43
29:B1:955:U:C5	29:B1:967:A:N1	2.87	0.43
29:B1:1024:G:N7	29:B1:1025:A:N7	2.67	0.43
29:B1:1150:A:C2	29:B1:1151:U:C1'	3.02	0.43
29:B1:1236:G:H1'	29:B1:1245:A:C4'	2.48	0.43
29:B1:1252:A:H2'	29:B1:1253:U:O2	2.18	0.43
29:B1:1303:A:N7	29:B1:1304:A:N1	2.66	0.43
29:B1:1337:A:N6	29:B1:1338:C:N4	2.67	0.43
29:B1:1368:U:H2'	29:B1:1369:A:C8	2.42	0.43
29:B1:1412:G:H2'	29:B1:1413:G:O4'	2.18	0.43
29:B1:1505:C:O2'	29:B1:1506:A:H5'	2.18	0.43
29:B1:1538:G:H5'	29:B1:1539:A:OP1	2.19	0.43
29:B1:1547:G:C2'	29:B1:1548:C:C6	2.94	0.43
29:B1:1799:A:C2	29:B1:1800:A:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1815:U:OP2	29:B1:1816:A:C4	2.71	0.43
29:B1:1881:A:C4	29:B1:1882:G:C8	3.07	0.43
29:B1:1942:U:O4'	29:B1:3342:A:C2	2.71	0.43
29:B1:2095:G:H2'	29:B1:2096:A:H8	1.83	0.43
29:B1:2182:A:C2'	29:B1:2183:A:H5'	2.48	0.43
29:B1:2191:U:N3	29:B1:2192:C:C5	2.87	0.43
29:B1:2197:C:C2	29:B1:2242:A:C2	3.06	0.43
29:B1:2211:U:H2'	29:B1:2212:C:C6	2.54	0.43
29:B1:2218:G:C6	29:B1:2228:A:C6	3.07	0.43
29:B1:2254:U:H2'	29:B1:2255:A:OP1	2.18	0.43
29:B1:2286:U:O4	29:B1:2288:G:H1'	2.18	0.43
29:B1:2372:A:O2'	29:B1:2373:A:OP1	2.36	0.43
29:B1:2394:G:O4'	34:BC:253:GLY:HA3	2.18	0.43
29:B1:2418:G:O6	29:B1:2965:U:C6	2.72	0.43
29:B1:2631:U:C4	29:B1:2648:G:C2	3.07	0.43
29:B1:2671:A:C6	29:B1:2684:C:N4	2.87	0.43
29:B1:2674:A:H2	29:B1:2675:C:C6	2.36	0.43
29:B1:2828:G:H2'	29:B1:2829:U:O5'	2.18	0.43
29:B1:2837:A:C8	29:B1:2845:A:H2	2.36	0.43
29:B1:2846:U:H2'	29:B1:2847:A:OP2	2.19	0.43
29:B1:2851:A:H3'	29:B1:2852:C:C5'	2.48	0.43
29:B1:2912:G:C6	29:B1:3130:A:C6	3.05	0.43
29:B1:2955:U:O2	29:B1:2956:A:C8	2.71	0.43
29:B1:3038:U:C2	29:B1:3039:C:C6	3.07	0.43
29:B1:3068:U:C2'	29:B1:3069:G:OP1	2.67	0.43
29:B1:3278:C:O2	29:B1:3279:A:N7	2.52	0.43
29:B1:3296:A:C5	29:B1:3297:U:C5	3.07	0.43
30:B2:15:C:C5	30:B2:16:U:C5	3.07	0.43
31:B3:40:A:C8	31:B3:40:A:C5'	2.92	0.43
31:B3:72:A:H61	31:B3:85:G:H5'	1.84	0.43
31:B3:108:C:C2'	31:B3:109:A:O5'	2.67	0.43
31:B3:145:U:N3	31:B3:146:U:C2	2.87	0.43
34:BC:178:LEU:O	34:BC:179:ALA:O	2.37	0.43
35:BD:164:GLU:O	35:BD:168:ALA:HB2	2.19	0.43
35:BD:203:ARG:C	35:BD:204:GLY:O	2.60	0.43
36:BE:227:LEU:CA	36:BE:228:ALA:HB3	2.48	0.43
42:BK:97:SER:C	42:BK:99:THR:N	2.76	0.43
46:BQ:99:ALA:O	46:BQ:102:ALA:CB	2.61	0.43
48:BS:18:GLY:C	48:BS:20:ARG:N	2.73	0.43
54:BY:73:LEU:HA	54:BY:116:GLY:HA2	2.01	0.43
57:Bb:92:TYR:O	57:Bb:93:ALA:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:Bc:39:PRO:O	58:Bc:40:SER:CB	2.65	0.43
26:Bj:12:UNK:O	26:Bj:15:UNK:N	2.51	0.43
1:C1:13:C:H5'	3:CB:161:LYS:C	2.44	0.43
1:C1:25:C:C5	1:C1:367:A:H1'	2.53	0.43
1:C1:205:U:O4	1:C1:206:A:N6	2.52	0.43
1:C1:317:C:C4	1:C1:318:U:C4	3.07	0.43
1:C1:320:U:OP1	1:C1:320:U:O4'	2.36	0.43
1:C1:414:C:H2'	1:C1:415:C:O4'	2.18	0.43
1:C1:439:U:C4	1:C1:465:G:C2	3.07	0.43
1:C1:446:A:C4	1:C1:447:U:H5	2.29	0.43
1:C1:463:U:C2	1:C1:464:A:C8	3.06	0.43
1:C1:478:A:H2	1:C1:479:C:C2	2.36	0.43
1:C1:685:A:O2'	1:C1:686:C:O5'	2.37	0.43
1:C1:759:U:H2'	1:C1:759:U:O2	2.18	0.43
1:C1:827:C:C4'	1:C1:828:U:OP1	2.66	0.43
1:C1:883:C:H5"	1:C1:884:A:OP2	2.18	0.43
1:C1:1014:G:C5	1:C1:1015:U:C5	3.06	0.43
1:C1:1035:G:N1	1:C1:1101:G:C5	2.87	0.43
1:C1:1050:G:C5	1:C1:1051:G:H1'	2.50	0.43
1:C1:1266:U:H5"	1:C1:1267:G:OP2	2.18	0.43
1:C1:1310:U:O5'	1:C1:1310:U:C6	2.67	0.43
1:C1:1332:C:O2'	1:C1:1333:C:P	2.77	0.43
1:C1:1333:C:H2'	1:C1:1334:U:C6	2.53	0.43
1:C1:1346:A:O4'	1:C1:1346:A:OP1	2.37	0.43
1:C1:1455:G:N3	1:C1:1456:C:O2	2.51	0.43
1:C1:1558:U:H3'	1:C1:1559:A:H5"	2.00	0.43
1:C1:1591:C:O2'	1:C1:1592:A:H5'	2.19	0.43
1:C1:1682:U:O4	74:C1:1951:OHX:N6	2.52	0.43
1:C1:1722:A:H5'	1:C1:1723:U:H5	1.84	0.43
1:C1:1756:A:N7	74:C1:1901:OHX:N2	2.66	0.43
1:C1:1770:U:C5	1:C1:1793:G:N2	2.86	0.43
2:CA:132:ALA:O	2:CA:136:ALA:N	2.51	0.43
3:CB:217:ALA:O	3:CB:218:ILE:C	2.60	0.43
6:CE:106:GLU:O	6:CE:107:ARG:C	2.60	0.43
11:CJ:89:LEU:O	11:CJ:97:VAL:HA	2.19	0.43
15:CN:43:LYS:C	15:CN:45:ALA:H	2.27	0.43
19:CR:33:LEU:O	19:CR:34:GLU:CB	2.66	0.43
23:Cb:121:UNK:O	23:Cb:122:UNK:C	2.67	0.43
29:D1:301:G:C5	29:D1:302:U:C5	3.07	0.43
29:D1:328:U:H2'	29:D1:329:U:H3	1.84	0.43
29:D1:380:U:C2	29:D1:381:U:H5	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:392:G:O6	74:D1:3523:OHX:N3	2.51	0.43
29:D1:513:G:N1	29:D1:577:C:N4	2.65	0.43
29:D1:808:A:N6	29:D1:934:G:C8	2.87	0.43
29:D1:929:A:C6	29:D1:930:U:C4	3.07	0.43
29:D1:985:U:C2	29:D1:986:U:C5	3.06	0.43
29:D1:1008:U:H5"	29:D1:1008:U:H6	1.82	0.43
29:D1:1047:A:N1	29:D1:2646:C:O2	2.51	0.43
29:D1:1063:G:C5'	29:D1:1098:A:O5'	2.54	0.43
29:D1:1139:G:C2	29:D1:1140:G:N9	2.86	0.43
29:D1:1271:A:H61	29:D1:1272:C:H42	1.66	0.43
29:D1:1287:A:C5	29:D1:1288:U:C5	3.07	0.43
29:D1:1351:U:H2'	29:D1:1352:A:C8	2.53	0.43
29:D1:1383:G:C2'	29:D1:1384:U:H5'	2.47	0.43
29:D1:1394:A:N7	29:D1:1395:G:C5	2.87	0.43
29:D1:1520:G:C2	29:D1:1521:G:C4	3.06	0.43
29:D1:1683:A:C5	29:D1:1684:U:N3	2.86	0.43
29:D1:1838:G:C5'	29:D1:1839:A:O4'	2.66	0.43
29:D1:1882:G:N3	29:D1:1882:G:H2'	2.34	0.43
29:D1:1895:A:O3'	29:D1:1896:A:H8	2.01	0.43
29:D1:1931:U:O2'	29:D1:2121:G:N2	2.49	0.43
29:D1:2105:G:C2	29:D1:2106:A:C4	3.06	0.43
29:D1:2135:U:H2'	29:D1:2136:C:C6	2.45	0.43
29:D1:2209:U:H6	29:D1:2209:U:H3'	1.83	0.43
29:D1:2254:U:H2'	29:D1:2255:A:OP1	2.18	0.43
29:D1:2279:A:H4'	29:D1:2280:A:C5'	2.41	0.43
29:D1:2299:A:C2'	29:D1:2300:G:O5'	2.67	0.43
29:D1:2414:G:C2	29:D1:2415:C:H1'	2.54	0.43
29:D1:2706:G:C4	29:D1:2707:C:C5	3.07	0.43
29:D1:2735:U:H2'	29:D1:2736:A:C8	2.53	0.43
29:D1:2950:G:N3	29:D1:2950:G:C2'	2.80	0.43
29:D1:3184:A:C2'	29:D1:3185:U:H5'	2.49	0.43
29:D1:3387:U:C2'	29:D1:3388:C:H5	2.29	0.43
30:D2:110:G:O6	30:D2:111:U:C4	2.71	0.43
31:D3:24:G:C2	31:D3:25:G:H1'	2.54	0.43
31:D3:81:U:C5	31:D3:82:U:C6	3.07	0.43
32:DA:147:LYS:C	32:DA:149:THR:H	2.27	0.43
40:DI:115:ARG:O	40:DI:116:ASN:CB	2.65	0.43
40:DI:185:GLY:O	40:DI:187:ILE:N	2.52	0.43
41:DJ:12:GLN:O	41:DJ:14:ASN:O	2.37	0.43
41:DJ:27:PRO:O	41:DJ:28:ASP:C	2.61	0.43
72:DL:24:ALA:O	72:DL:25:SER:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:DL:96:LYS:O	72:DL:97:ASN:CB	2.66	0.43
43:DN:70:PHE:O	43:DN:71:ALA:C	2.62	0.43
43:DN:109:ARG:O	43:DN:113:THR:CB	2.67	0.43
45:DP:158:ALA:O	45:DP:160:ARG:N	2.51	0.43
48:DS:11:ALA:O	48:DS:12:ALA:C	2.62	0.43
49:DT:71:SER:O	49:DT:73:GLY:N	2.52	0.43
54:DY:45:MET:N	54:DY:46:ASP:CB	2.82	0.43
54:DY:46:ASP:HA	54:DY:47:LYS:HA	1.32	0.43
56:Da:56:ASN:O	56:Da:58:ALA:N	2.51	0.43
61:Df:40:LYS:O	61:Df:41:ARG:C	2.62	0.43
1:A1:328:A:H61	1:A1:341:A:N6	2.16	0.43
1:A1:375:U:O2	1:A1:375:U:C2'	2.64	0.43
1:A1:407:A:O4'	1:A1:1672:G:H4'	2.19	0.43
1:A1:446:A:C6	1:A1:447:U:C4	3.07	0.43
1:A1:615:A:N1	1:A1:1107:G:C6	2.87	0.43
1:A1:647:G:OP1	1:A1:647:G:H4'	2.19	0.43
1:A1:755:A:C4	1:A1:756:A:C8	3.06	0.43
1:A1:819:G:N1	1:A1:853:G:C2	2.87	0.43
1:A1:834:G:H2'	1:A1:835:U:O4'	2.19	0.43
1:A1:903:U:O4	9:AH:50:ALA:O	2.36	0.43
1:A1:985:G:C6	1:A1:986:G:C5	3.07	0.43
1:A1:1101:G:C2'	1:A1:1102:G:H5'	2.48	0.43
1:A1:1196:A:O4'	1:A1:1197:C:O5'	2.37	0.43
1:A1:1324:G:O6	1:A1:1325:A:N7	2.52	0.43
1:A1:1366:U:O4	74:A1:1935:OHX:N6	2.52	0.43
1:A1:1486:G:H1'	1:A1:1592:A:O2'	2.18	0.43
1:A1:1660:A:H2'	1:A1:1661:U:O4'	2.18	0.43
1:A1:1685:G:C2	1:A1:1719:A:N1	2.87	0.43
1:A1:1686:C:C4	1:A1:1687:U:O4	2.71	0.43
1:A1:1723:U:N3	1:A1:1724:U:C5	2.86	0.43
2:AA:51:GLY:O	2:AA:54:TRP:N	2.47	0.43
4:AC:10:LYS:O	4:AC:13:ALA:HB3	2.19	0.43
4:AC:114:ALA:C	4:AC:116:ARG:N	2.76	0.43
5:AD:153:GLY:H	5:AD:154:ALA:C	2.26	0.43
6:AE:61:THR:CB	6:AE:62:ARG:CA	2.96	0.43
6:AE:61:THR:CB	6:AE:62:ARG:O	2.67	0.43
11:AJ:137:ARG:O	11:AJ:138:PHE:O	2.37	0.43
13:AL:33:THR:C	13:AL:35:ILE:H	2.27	0.43
13:AL:53:ASP:O	13:AL:56:LYS:N	2.48	0.43
13:AL:62:THR:O	13:AL:65:GLU:CB	2.66	0.43
16:AO:7:LEU:C	16:AO:9:ASP:N	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AS:24:CYS:O	74:AS:101:OHX:N2	2.52	0.43
21:AT:279:ALA:HA	74:AT:401:OHX:N5	2.34	0.43
21:AT:297:ASP:O	21:AT:299:GLN:N	2.52	0.43
26:Ae:10:UNK:C	26:Ae:12:UNK:N	2.81	0.43
29:B1:8:C:O2	31:B3:152:G:N1	2.51	0.43
29:B1:43:A:N7	29:B1:2803:A:C6	2.87	0.43
29:B1:86:G:H1	29:B1:98:G:H3'	1.84	0.43
29:B1:114:A:H2	29:B1:267:G:C4	2.36	0.43
29:B1:158:G:H2'	29:B1:159:A:O5'	2.19	0.43
29:B1:190:U:C6	29:B1:224:C:C1'	3.01	0.43
29:B1:283:G:OP2	29:B1:285:A:C2'	2.66	0.43
29:B1:283:G:C2	29:B1:285:A:N6	2.87	0.43
29:B1:309:U:H5	29:B1:310:U:C5	2.36	0.43
29:B1:324:A:C5'	29:B1:325:A:OP2	2.67	0.43
29:B1:327:A:H5'	29:B1:327:A:H8	1.82	0.43
29:B1:411:U:N3	31:B3:13:A:C2	2.86	0.43
29:B1:517:G:C2'	29:B1:518:G:O4'	2.66	0.43
29:B1:630:A:H5'	29:B1:631:U:OP2	2.18	0.43
29:B1:688:G:C6	29:B1:690:A:C5	3.07	0.43
29:B1:722:G:C6	29:B1:748:U:N3	2.86	0.43
29:B1:779:G:C4	29:B1:780:A:N7	2.86	0.43
29:B1:853:G:H2'	29:B1:854:G:O4'	2.18	0.43
29:B1:910:G:C3'	29:B1:911:C:H6	2.32	0.43
29:B1:966:U:C2'	29:B1:967:A:H8	2.23	0.43
29:B1:992:A:O2'	49:BT:59:GLY:HA3	2.19	0.43
29:B1:1169:A:C6	29:B1:1330:A:N7	2.87	0.43
29:B1:1175:C:H3'	29:B1:1175:C:P	2.58	0.43
29:B1:1192:C:O4'	29:B1:1298:C:OP1	2.37	0.43
29:B1:1239:C:C5	29:B1:1240:A:C4	3.07	0.43
29:B1:1248:C:HO2'	29:B1:1249:G:H8	1.65	0.43
29:B1:1294:A:H5"	29:B1:1294:A:C8	2.43	0.43
29:B1:1304:A:C2	29:B1:2938:G:N3	2.85	0.43
29:B1:1348:U:HO2'	29:B1:1349:G:H8	1.67	0.43
29:B1:1357:G:C2	29:B1:1358:C:C2	3.06	0.43
29:B1:1357:G:H3'	29:B1:1358:C:H6	1.83	0.43
29:B1:1498:A:C5	29:B1:1499:C:C5	3.07	0.43
29:B1:1543:G:C2	29:B1:1544:G:N7	2.86	0.43
29:B1:1687:U:O2'	29:B1:1688:U:H4'	2.18	0.43
29:B1:1703:U:H1'	29:B1:1743:G:C6	2.54	0.43
29:B1:1771:C:H2'	29:B1:1772:U:O4'	2.18	0.43
29:B1:1771:C:N4	29:B1:1772:U:C4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1846:C:H5'	29:B1:1849:C:N4	2.34	0.43
29:B1:1896:A:C5	29:B1:3093:C:C5	3.06	0.43
29:B1:2148:U:O3'	29:B1:2149:A:N7	2.51	0.43
29:B1:2151:C:O2	29:B1:2243:A:H2	2.02	0.43
29:B1:2178:A:H1'	29:B1:2180:G:C4	2.54	0.43
29:B1:2212:C:O2'	29:B1:2233:A:N6	2.51	0.43
29:B1:2394:G:C4	34:BC:259:HIS:CB	3.02	0.43
29:B1:2688:U:O2'	29:B1:2689:A:OP1	2.27	0.43
29:B1:2812:C:C2	29:B1:2813:A:N7	2.87	0.43
29:B1:2864:A:C5	29:B1:2865:U:C4	3.07	0.43
29:B1:2932:U:C2'	29:B1:2933:A:O5'	2.67	0.43
29:B1:2966:G:O5'	29:B1:2966:G:H8	2.00	0.43
29:B1:2968:G:O2'	29:B1:2969:A:H5'	2.18	0.43
29:B1:2998:U:C6	29:B1:2998:U:OP1	2.71	0.43
29:B1:3060:C:C2	29:B1:3061:G:C8	3.07	0.43
29:B1:3149:G:N1	29:B1:3150:A:C4	2.87	0.43
29:B1:3311:C:C2'	29:B1:3312:U:O4'	2.64	0.43
29:B1:3314:A:C2'	34:BC:119:TYR:H	2.27	0.43
29:B1:3342:A:C2'	29:B1:3343:G:O4'	2.66	0.43
30:B2:31:U:C5	30:B2:32:U:C5	3.07	0.43
30:B2:35:C:N4	30:B2:47:C:C1'	2.52	0.43
30:B2:60:G:H2'	30:B2:61:G:C8	2.44	0.43
30:B2:95:A:O2'	30:B2:96:U:O5'	2.36	0.43
31:B3:1:A:C2	31:B3:2:A:N3	2.86	0.43
31:B3:30:C:C2'	31:B3:31:G:O5'	2.67	0.43
31:B3:43:A:H2'	31:B3:44:A:O4'	2.17	0.43
31:B3:74:U:HO2'	31:B3:89:A:C1'	2.32	0.43
34:BC:64:GLY:O	34:BC:65:SER:CB	2.67	0.43
35:BD:130:ALA:O	35:BD:132:ALA:N	2.52	0.43
37:BF:27:PRO:O	37:BF:29:LYS:N	2.52	0.43
41:BJ:212:GLU:O	41:BJ:213:PHE:C	2.62	0.43
42:BK:160:VAL:C	42:BK:162:TRP:H	2.27	0.43
44:BO:22:LEU:C	44:BO:24:ARG:N	2.77	0.43
44:BO:86:ASN:O	44:BO:88:GLY:N	2.51	0.43
47:BR:80:THR:N	47:BR:136:ASN:O	2.44	0.43
53:BX:52:ARG:C	53:BX:54:ASP:N	2.77	0.43
54:BY:15:VAL:C	54:BY:17:ALA:HA	2.43	0.43
57:Bb:60:ASN:O	57:Bb:61:LYS:C	2.61	0.43
57:Bb:64:LYS:O	57:Bb:66:LEU:N	2.52	0.43
59:Bd:5:THR:O	59:Bd:7:SER:O	2.36	0.43
62:Bg:59:CYS:N	74:Bg:101:OHX:N3	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Bh:47:UNK:C	63:Bh:49:UNK:N	2.80	0.43
1:C1:71:A:C1'	1:C1:72:A:OP1	2.67	0.43
1:C1:80:A:H3'	1:C1:81:G:C8	2.46	0.43
1:C1:104:A:N7	1:C1:106:U:C5	2.87	0.43
1:C1:288:A:O2'	1:C1:289:U:P	2.77	0.43
1:C1:328:A:N6	1:C1:341:A:H61	2.16	0.43
1:C1:503:G:C5	1:C1:504:U:C6	3.07	0.43
1:C1:568:G:C2	1:C1:569:C:C5	3.06	0.43
1:C1:568:G:N1	1:C1:569:C:C5	2.86	0.43
1:C1:590:C:C2	1:C1:591:A:C8	3.07	0.43
1:C1:748:U:H3	1:C1:801:G:H1	1.66	0.43
1:C1:794:U:H2'	1:C1:794:U:O2	2.18	0.43
1:C1:956:C:N3	1:C1:957:G:N7	2.67	0.43
1:C1:985:G:O6	1:C1:986:G:O6	2.36	0.43
1:C1:1334:U:H2'	1:C1:1334:U:O2	2.19	0.43
1:C1:1358:G:C2	1:C1:1359:C:C5	3.07	0.43
1:C1:1377:U:O2	1:C1:1378:U:O4'	2.37	0.43
1:C1:1438:G:C5	1:C1:1439:C:C4	3.07	0.43
1:C1:1455:G:C6	1:C1:1456:C:N4	2.83	0.43
1:C1:1584:G:C4	1:C1:1584:G:C3'	2.99	0.43
1:C1:1649:G:N7	74:C1:1997:OHX:N4	2.67	0.43
1:C1:1657:U:C4	74:C1:1955:OHX:N5	2.87	0.43
1:C1:1681:A:C8	1:C1:1682:U:N3	2.87	0.43
1:C1:1716:C:C2	1:C1:1717:G:C8	3.07	0.43
3:CB:97:ARG:O	3:CB:98:PHE:CB	2.66	0.43
3:CB:238:SER:C	3:CB:240:LEU:N	2.76	0.43
5:CD:183:ALA:O	5:CD:184:PHE:CB	2.66	0.43
9:CH:57:PRO:O	9:CH:59:ALA:N	2.52	0.43
10:CI:59:LYS:O	10:CI:60:LEU:C	2.62	0.43
10:CI:59:LYS:C	10:CI:61:ARG:N	2.70	0.43
11:CJ:74:HIS:O	11:CJ:77:GLN:N	2.51	0.43
16:CO:70:ASN:HA	16:CO:71:LYS:HA	1.42	0.43
16:CO:102:VAL:O	16:CO:103:ILE:C	2.61	0.43
17:CP:53:VAL:CB	17:CP:100:ASP:O	2.67	0.43
21:CT:27:ALA:O	21:CT:28:GLY:O	2.37	0.43
21:CT:116:ASP:O	21:CT:118:LYS:N	2.51	0.43
24:Cc:31:UNK:C	24:Cc:33:UNK:N	2.79	0.43
29:D1:40:A:C6	54:DY:30:GLY:HA2	2.53	0.43
29:D1:44:U:P	44:DO:83:LYS:CB	3.07	0.43
29:D1:66:A:C2	29:D1:77:A:O3'	2.71	0.43
29:D1:184:U:N3	29:D1:185:C:C5	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:303:G:N2	29:D1:2778:G:C4	2.87	0.43
29:D1:371:G:N1	29:D1:373:A:H3'	2.33	0.43
29:D1:419:G:C2	31:D3:5:U:O2	2.72	0.43
29:D1:645:A:N7	29:D1:649:A:C5	2.87	0.43
29:D1:733:G:C2	29:D1:736:A:N1	2.86	0.43
29:D1:926:A:C2	29:D1:927:C:C2	3.07	0.43
29:D1:1142:G:H3'	29:D1:1143:A:C5'	2.46	0.43
29:D1:1170:A:C8	29:D1:1170:A:H3'	2.54	0.43
29:D1:1207:G:H5'	29:D1:1207:G:H8	1.82	0.43
29:D1:1254:C:C2	29:D1:1263:A:C2	3.07	0.43
29:D1:1363:A:H2'	29:D1:1364:C:C6	2.54	0.43
29:D1:1414:G:H2'	29:D1:1415:U:O4'	2.18	0.43
29:D1:1421:G:N2	29:D1:1422:G:C5	2.87	0.43
29:D1:1489:A:C2'	29:D1:1490:A:H8	2.32	0.43
29:D1:1511:U:H3'	29:D1:1512:U:C6	2.53	0.43
29:D1:1566:A:N7	29:D1:1568:U:N3	2.66	0.43
29:D1:1596:C:H2'	29:D1:1597:C:C5	2.53	0.43
29:D1:1715:A:N7	29:D1:1716:U:O4'	2.52	0.43
29:D1:1721:U:O2	29:D1:1723:A:C8	2.72	0.43
29:D1:1833:G:C5	29:D1:1834:U:N3	2.87	0.43
29:D1:1846:C:H5'	29:D1:1849:C:N4	2.33	0.43
29:D1:1895:A:C2	29:D1:2335:G:O6	2.71	0.43
29:D1:2210:G:C5	29:D1:2211:U:C5	3.06	0.43
29:D1:2254:U:N3	74:D1:3583:OHX:N6	2.66	0.43
29:D1:2360:C:C6	29:D1:2360:C:OP2	2.72	0.43
29:D1:2375:G:C5	29:D1:2378:C:C5	3.07	0.43
29:D1:2504:U:C5	29:D1:2505:U:C5	3.06	0.43
29:D1:2568:C:H2'	29:D1:2569:A:H4'	2.01	0.43
29:D1:2630:C:O4'	29:D1:2758:A:H1'	2.19	0.43
29:D1:2676:A:C2'	29:D1:2677:G:OP1	2.66	0.43
29:D1:2741:C:H2'	29:D1:2742:C:O4'	2.19	0.43
29:D1:2743:A:C4	29:D1:2744:U:C5	3.07	0.43
29:D1:3088:G:C5	29:D1:3089:C:C5	3.07	0.43
29:D1:3110:C:O2'	29:D1:3111:U:H5'	2.19	0.43
29:D1:3143:C:H5'	29:D1:3143:C:H6	1.84	0.43
29:D1:3153:U:O4	29:D1:3160:U:H1'	2.17	0.43
29:D1:3195:U:C2'	29:D1:3196:U:O2	2.43	0.43
29:D1:3197:G:H2'	29:D1:3198:U:OP1	2.18	0.43
29:D1:3246:G:H2'	29:D1:3247:G:C8	2.47	0.43
29:D1:3260:G:OP2	29:D1:3260:G:C8	2.71	0.43
29:D1:3262:U:C2	29:D1:3263:G:N7	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3304:U:C4	34:DC:333:LYS:O	2.71	0.43
29:D1:3321:C:N4	29:D1:3386:G:H22	2.16	0.43
29:D1:3321:C:N1	29:D1:3322:A:C8	2.84	0.43
29:D1:3333:G:H1	29:D1:3370:A:C1'	2.31	0.43
30:D2:26:C:H2'	30:D2:27:A:C8	2.54	0.43
31:D3:130:C:H2'	31:D3:131:A:C8	2.51	0.43
33:DB:53:GLY:C	33:DB:54:ARG:O	2.59	0.43
34:DC:27:ALA:HB2	34:DC:219:ALA:CA	2.48	0.43
34:DC:160:VAL:C	34:DC:161:LEU:O	2.60	0.43
35:DD:118:LYS:HA	35:DD:121:ALA:HB3	2.01	0.43
35:DD:237:GLN:C	35:DD:239:ALA:N	2.71	0.43
36:DE:150:LEU:O	36:DE:151:GLN:C	2.62	0.43
37:DF:114:LYS:O	37:DF:115:GLU:C	2.61	0.43
38:DG:161:VAL:O	38:DG:165:ASP:CB	2.66	0.43
38:DG:219:LYS:C	38:DG:221:LYS:H	2.26	0.43
40:DI:48:VAL:C	40:DI:50:ASN:N	2.77	0.43
40:DI:86:TYR:CB	40:DI:87:LYS:CB	2.96	0.43
41:DJ:153:ARG:O	41:DJ:154:ARG:C	2.60	0.43
42:DK:50:ALA:HB3	42:DK:63:GLU:N	2.09	0.43
47:DR:110:ALA:O	47:DR:111:ARG:C	2.62	0.43
48:DS:63:THR:C	48:DS:65:ALA:N	2.76	0.43
1:A1:119:A:H1'	1:A1:397:A:C8	2.54	0.43
1:A1:139:C:C5	1:A1:176:C:C2	3.06	0.43
1:A1:180:A:O2'	1:A1:181:A:C8	2.71	0.43
1:A1:186:C:N4	1:A1:187:G:C6	2.80	0.43
1:A1:614:C:N3	1:A1:615:A:C8	2.87	0.43
1:A1:647:G:C6	1:A1:687:G:C6	3.07	0.43
1:A1:740:A:N1	1:A1:741:C:C4	2.87	0.43
1:A1:898:A:N6	1:A1:914:G:C2	2.87	0.43
1:A1:1068:C:C2	1:A1:1069:A:C8	3.06	0.43
1:A1:1086:A:C2	1:A1:1141:G:N3	2.86	0.43
1:A1:1118:G:C4	1:A1:1119:G:C8	3.07	0.43
1:A1:1201:G:OP2	1:A1:1201:G:C5	2.72	0.43
1:A1:1407:U:H2'	1:A1:1408:G:O4'	2.19	0.43
1:A1:1431:C:H4'	1:A1:1432:U:H5'	2.00	0.43
1:A1:1467:C:HO2'	1:A1:1468:U:H5'	1.80	0.43
1:A1:1529:C:H2'	1:A1:1530:C:C6	2.54	0.43
1:A1:1558:U:H5	1:A1:1559:A:H3'	1.84	0.43
1:A1:1671:A:C4	1:A1:1731:A:N1	2.87	0.43
1:A1:1764:C:H5'	1:A1:1767:G:C8	2.54	0.43
2:AA:84:ARG:O	2:AA:86:VAL:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:84:ILE:HA	8:AG:85:PRO:HA	1.83	0.43
8:AG:107:LYS:O	8:AG:109:LYS:N	2.45	0.43
9:AH:25:ASP:O	9:AH:26:THR:CB	2.66	0.43
10:AI:65:LEU:O	10:AI:66:ALA:C	2.62	0.43
10:AI:84:ILE:O	10:AI:85:ILE:C	2.61	0.43
15:AN:25:THR:H	15:AN:115:GLU:CB	2.32	0.43
17:AP:52:ILE:O	17:AP:74:VAL:CB	2.67	0.43
20:AS:23:VAL:O	20:AS:24:CYS:C	2.62	0.43
21:AT:86:ASP:O	21:AT:87:LYS:CB	2.66	0.43
26:Ae:12:UNK:C	26:Ae:14:UNK:N	2.78	0.43
27:Af:9:UNK:HA	27:Af:12:UNK:CB	2.49	0.43
29:B1:37:U:N3	29:B1:38:U:C4	2.87	0.43
29:B1:65:A:H2'	29:B1:111:C:C5	2.54	0.43
29:B1:120:G:N1	29:B1:150:A:H5"	2.34	0.43
29:B1:145:G:N3	29:B1:145:G:C2'	2.82	0.43
29:B1:157:A:C2'	29:B1:158:G:C8	3.02	0.43
29:B1:198:A:C2	29:B1:219:A:N7	2.86	0.43
29:B1:206:G:N2	29:B1:207:U:H1'	2.34	0.43
29:B1:208:C:C2'	29:B1:209:A:O5'	2.66	0.43
29:B1:299:G:H2'	29:B1:300:G:O4'	2.18	0.43
29:B1:561:C:O2'	29:B1:562:C:P	2.76	0.43
29:B1:570:A:C4	29:B1:571:U:C6	3.07	0.43
29:B1:576:C:HO2'	29:B1:577:C:H5"	1.84	0.43
29:B1:596:C:O2	29:B1:596:C:C4'	2.66	0.43
29:B1:601:U:C4	29:B1:602:A:C8	3.06	0.43
29:B1:645:A:H1'	29:B1:647:A:OP2	2.19	0.43
29:B1:706:A:C6	29:B1:714:G:C2	3.07	0.43
29:B1:717:C:N4	29:B1:721:G:OP1	2.52	0.43
29:B1:723:U:C6	29:B1:723:U:C4'	3.01	0.43
29:B1:790:U:C2'	29:B1:791:A:O5'	2.67	0.43
29:B1:901:G:N3	29:B1:902:G:C8	2.87	0.43
29:B1:1062:A:P	29:B1:1063:G:O6	2.76	0.43
29:B1:1067:U:H5"	29:B1:1068:C:OP2	2.18	0.43
29:B1:1295:G:C5	29:B1:1296:C:C4	3.06	0.43
29:B1:1317:A:OP2	29:B1:1317:A:H3'	2.19	0.43
29:B1:1335:C:C4	29:B1:1336:U:C5	3.06	0.43
29:B1:1415:U:C2	29:B1:1416:C:C6	3.07	0.43
29:B1:1432:C:O2'	29:B1:1433:A:H3'	2.19	0.43
29:B1:1461:A:C4	29:B1:1462:A:N7	2.87	0.43
29:B1:1499:C:N3	29:B1:1500:G:N7	2.67	0.43
29:B1:1586:G:H8	29:B1:1586:G:O5'	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1690:C:C4	29:B1:1691:U:C5	3.06	0.43
29:B1:1818:U:H2'	29:B1:1819:U:C6	2.54	0.43
29:B1:1867:A:C5	29:B1:1868:G:C5	3.07	0.43
29:B1:2113:A:H2'	29:B1:2114:C:H5"	1.96	0.43
29:B1:2114:C:C4'	29:B1:2116:G:C4	3.00	0.43
29:B1:2152:A:H1'	29:B1:2243:A:C2	2.54	0.43
29:B1:2201:G:C4	29:B1:2202:C:C6	3.07	0.43
29:B1:2247:G:C6	29:B1:2248:C:N4	2.87	0.43
29:B1:2257:C:O2	29:B1:2257:C:O4'	2.36	0.43
29:B1:2390:A:C2	29:B1:2990:G:C2	3.07	0.43
29:B1:2513:U:C5	29:B1:2591:A:N6	2.84	0.43
29:B1:2583:C:H2'	29:B1:2584:G:N7	2.32	0.43
29:B1:2659:G:H2'	29:B1:2660:G:H8	1.84	0.43
29:B1:2671:A:C6	29:B1:2672:G:N7	2.86	0.43
29:B1:2741:C:O5'	29:B1:2741:C:H6	2.02	0.43
29:B1:2749:G:C6	29:B1:2750:U:C4	3.07	0.43
29:B1:2770:G:C6	29:B1:2771:U:O4	2.72	0.43
29:B1:2824:G:H5"	29:B1:2825:C:P	2.59	0.43
29:B1:2830:G:H2'	29:B1:2831:G:O5'	2.19	0.43
29:B1:2856:G:N2	29:B1:2857:C:C2	2.87	0.43
29:B1:2946:A:C2'	29:B1:2982:A:N7	2.81	0.43
29:B1:3014:U:O2	29:B1:3041:U:O2	2.36	0.43
29:B1:3026:G:C8	29:B1:3026:G:H3'	2.53	0.43
29:B1:3064:U:C2'	29:B1:3065:G:H5'	2.49	0.43
29:B1:3110:C:C4	29:B1:3111:U:C5	3.06	0.43
29:B1:3234:A:H2	29:B1:3253:G:N2	2.10	0.43
74:B1:3536:OHX:N4	44:BO:84:PRO:CA	2.80	0.43
30:B2:15:C:C2	30:B2:66:A:C2	3.06	0.43
30:B2:22:A:C5	30:B2:23:A:C5	3.06	0.43
30:B2:26:C:O2'	30:B2:27:A:C5'	2.67	0.43
30:B2:46:A:C4	30:B2:46:A:C3'	3.02	0.43
31:B3:65:A:N6	31:B3:66:A:N6	2.67	0.43
31:B3:76:C:N4	53:BX:75:ARG:CB	2.82	0.43
32:BA:126:PRO:O	32:BA:128:LEU:N	2.52	0.43
34:BC:118:PHE:CB	34:BC:119:TYR:O	2.67	0.43
34:BC:288:GLY:H	34:BC:291:GLU:CB	2.32	0.43
34:BC:306:THR:C	34:BC:308:MET:H	2.22	0.43
35:BD:134:LEU:C	35:BD:136:LEU:H	2.27	0.43
36:BE:43:LYS:N	49:BT:70:SER:N	2.67	0.43
36:BE:87:GLY:O	36:BE:88:ILE:CB	2.66	0.43
38:BG:167:ALA:HB3	38:BG:176:TYR:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BI:104:VAL:CB	40:BI:105:GLU:CB	2.97	0.43
42:BK:89:TYR:CB	42:BK:168:ASP:CB	2.97	0.43
46:BQ:99:ALA:O	46:BQ:102:ALA:N	2.51	0.43
47:BR:125:ASP:O	47:BR:126:GLN:C	2.61	0.43
48:BS:59:SER:C	48:BS:61:SER:H	2.18	0.43
52:BW:61:LYS:CB	52:BW:62:VAL:CA	2.96	0.43
52:BW:69:SER:N	52:BW:72:ALA:HB3	2.24	0.43
58:Bc:4:VAL:CA	58:Bc:5:LYS:CB	2.96	0.43
58:Bc:65:ALA:C	58:Bc:67:ARG:N	2.75	0.43
59:Bd:60:GLY:C	59:Bd:62:GLY:N	2.76	0.43
62:Bg:75:ALA:C	62:Bg:77:ALA:N	2.76	0.43
1:C1:47:A:O5'	1:C1:48:G:H5"	2.18	0.43
1:C1:60:U:O5'	1:C1:454:U:O4'	2.37	0.43
1:C1:111:U:O4	1:C1:112:A:N6	2.52	0.43
1:C1:121:U:C2	1:C1:122:U:H1'	2.54	0.43
1:C1:130:C:H3'	1:C1:131:C:C5'	2.49	0.43
1:C1:172:C:O2	1:C1:173:A:C1'	2.67	0.43
1:C1:230:C:O2'	1:C1:231:U:H5'	2.19	0.43
1:C1:283:U:H3'	1:C1:284:G:C4'	2.49	0.43
1:C1:330:G:C4	1:C1:331:A:N7	2.87	0.43
1:C1:417:A:H8	1:C1:417:A:P	2.41	0.43
1:C1:482:U:C3'	1:C1:483:A:C8	3.02	0.43
1:C1:539:G:H5"	1:C1:543:C:H41	1.83	0.43
1:C1:635:A:H61	1:C1:861:U:H3	1.65	0.43
1:C1:708:C:C4	1:C1:709:C:O2	2.71	0.43
1:C1:722:G:C4	1:C1:723:G:C8	3.07	0.43
1:C1:768:C:C2	6:CE:143:ILE:CB	3.02	0.43
1:C1:807:A:C5'	1:C1:807:A:C8	3.02	0.43
1:C1:880:C:C2	1:C1:881:A:C8	3.06	0.43
1:C1:898:A:N6	1:C1:914:G:C2	2.86	0.43
1:C1:929:A:C5	1:C1:930:A:C5	3.06	0.43
1:C1:973:A:O2'	29:D1:848:A:H1'	2.19	0.43
1:C1:977:A:C2	1:C1:1025:A:C2	3.06	0.43
1:C1:1113:A:C2	1:C1:1115:U:C4	3.06	0.43
1:C1:1204:A:C5	1:C1:1205:C:C2	3.07	0.43
1:C1:1205:C:C5	1:C1:1206:U:O2	2.71	0.43
1:C1:1239:U:H2'	1:C1:1240:U:C5	2.54	0.43
1:C1:1271:G:C6	1:C1:1272:U:C4	3.06	0.43
1:C1:1341:A:N3	1:C1:1341:A:C2'	2.79	0.43
1:C1:1372:U:O2	1:C1:1373:C:H1'	2.18	0.43
1:C1:1452:U:C2	1:C1:1453:G:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1491:U:O2'	1:C1:1492:A:C8	2.72	0.43
1:C1:1493:A:OP2	1:C1:1494:C:O5'	2.36	0.43
1:C1:1615:C:H3'	1:C1:1616:G:C5'	2.49	0.43
1:C1:1665:U:H1'	1:C1:1737:G:N2	2.34	0.43
1:C1:1793:G:O2'	1:C1:1794:A:OP2	2.36	0.43
3:CB:170:ILE:O	3:CB:171:PRO:C	2.61	0.43
4:CC:161:GLY:O	4:CC:163:PRO:N	2.51	0.43
5:CD:169:ASN:C	5:CD:171:ALA:H	2.26	0.43
7:CF:110:HIS:CB	7:CF:111:VAL:CB	2.96	0.43
10:CI:65:LEU:O	10:CI:66:ALA:C	2.61	0.43
10:CI:75:PRO:O	10:CI:93:VAL:O	2.36	0.43
29:D1:65:A:C2'	29:D1:111:C:H41	2.31	0.43
29:D1:78:U:H2'	29:D1:79:U:H5'	2.00	0.43
29:D1:87:U:O2	29:D1:87:U:C2'	2.67	0.43
29:D1:158:G:H2'	29:D1:159:A:O5'	2.18	0.43
29:D1:222:A:N3	29:D1:222:A:H2'	2.34	0.43
29:D1:259:C:H2'	29:D1:260:C:C6	2.52	0.43
29:D1:307:A:H2'	29:D1:308:A:O4'	2.19	0.43
29:D1:405:U:C5	29:D1:406:G:N9	2.87	0.43
29:D1:512:U:C2	29:D1:579:G:N2	2.84	0.43
29:D1:531:G:N1	29:D1:560:G:N2	2.64	0.43
29:D1:557:A:H3'	29:D1:557:A:H8	1.79	0.43
29:D1:569:A:H2'	29:D1:570:A:C5'	2.48	0.43
29:D1:600:G:N2	29:D1:604:G:C5	2.86	0.43
29:D1:699:A:H3'	29:D1:699:A:H8	1.81	0.43
29:D1:780:A:N6	29:D1:781:G:C6	2.86	0.43
29:D1:880:G:OP2	46:DQ:131:ARG:CB	2.67	0.43
29:D1:900:G:H2'	29:D1:901:G:C8	2.53	0.43
29:D1:1083:G:C2'	29:D1:1084:A:O5'	2.66	0.43
29:D1:1217:A:N3	29:D1:1217:A:H2'	2.34	0.43
29:D1:1358:C:N3	29:D1:1359:C:C5	2.87	0.43
29:D1:1480:G:N1	29:D1:1871:U:P	2.92	0.43
29:D1:1562:C:H2'	29:D1:1563:C:O4'	2.19	0.43
29:D1:1594:A:H5"	29:D1:1595:U:OP2	2.19	0.43
29:D1:1714:A:C5	29:D1:1728:G:C6	3.06	0.43
29:D1:1731:A:C6	29:D1:1732:U:N3	2.86	0.43
29:D1:1841:A:C6	29:D1:1848:G:C5	3.07	0.43
29:D1:1881:A:C4	29:D1:1882:G:C8	3.06	0.43
29:D1:1895:A:C5	29:D1:2335:G:N7	2.87	0.43
29:D1:1904:C:C4	29:D1:1905:G:N7	2.87	0.43
29:D1:1941:C:OP2	48:DS:75:HIS:CA	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2221:G:N2	29:D1:2223:A:H2'	2.34	0.43
29:D1:2311:G:C2'	29:D1:2312:A:O5'	2.66	0.43
29:D1:2393:G:H2'	29:D1:2947:G:H5"	2.01	0.43
29:D1:2395:G:C2'	29:D1:2396:G:C5'	2.94	0.43
29:D1:2571:U:O2	29:D1:2571:U:C2'	2.64	0.43
29:D1:2588:U:C5'	29:D1:2589:G:OP2	2.62	0.43
29:D1:2601:A:C2	29:D1:2602:G:C5	3.07	0.43
29:D1:2639:G:N1	29:D1:2640:A:C5	2.87	0.43
29:D1:2728:G:C2	29:D1:2729:U:C5	3.07	0.43
29:D1:2813:A:N1	29:D1:2814:G:C5	2.86	0.43
29:D1:2838:A:N1	29:D1:2851:A:C8	2.87	0.43
29:D1:2897:A:N7	29:D1:2899:C:C1'	2.82	0.43
29:D1:3093:C:O2'	29:D1:3094:A:O5'	2.34	0.43
29:D1:3122:A:N1	40:DI:70:THR:CB	2.82	0.43
29:D1:3205:G:OP2	29:D1:3206:C:OP2	2.36	0.43
29:D1:3311:C:C2'	29:D1:3312:U:O4'	2.66	0.43
29:D1:3328:G:N3	29:D1:3328:G:C2'	2.77	0.43
29:D1:3330:A:C6	29:D1:3331:U:O4	2.72	0.43
29:D1:3371:G:O6	29:D1:3372:A:C2	2.71	0.43
30:D2:18:C:N4	30:D2:19:C:N4	2.67	0.43
31:D3:49:G:C8	58:Dc:40:SER:C	2.97	0.43
31:D3:76:C:N4	53:DX:75:ARG:CB	2.82	0.43
31:D3:88:A:C8	31:D3:89:A:N1	2.86	0.43
31:D3:116:G:C2'	31:D3:117:C:O5'	2.67	0.43
34:DC:142:ALA:C	34:DC:144:ILE:N	2.74	0.43
35:DD:203:ARG:C	35:DD:204:GLY:O	2.62	0.43
36:DE:33:ARG:C	36:DE:35:ARG:H	2.26	0.43
37:DF:164:SER:CA	38:DG:182:ASP:CB	2.94	0.43
38:DG:199:ASN:C	38:DG:201:PHE:H	2.26	0.43
38:DG:219:LYS:HA	38:DG:227:GLY:C	2.44	0.43
40:DI:61:GLY:O	40:DI:62:ARG:C	2.61	0.43
41:DJ:219:ALA:C	41:DJ:221:ALA:H	2.27	0.43
73:DM:13:ALA:O	73:DM:17:GLU:CB	2.67	0.43
43:DN:87:ALA:C	43:DN:88:ALA:O	2.60	0.43
48:DS:30:SER:O	48:DS:33:ALA:HB3	2.19	0.43
49:DT:18:ASP:O	49:DT:19:PHE:CB	2.66	0.43
50:DU:81:GLN:O	50:DU:82:ALA:CB	2.65	0.43
54:DY:148:ILE:O	54:DY:149:ALA:C	2.61	0.43
56:Da:60:TRP:C	56:Da:62:ARG:N	2.76	0.43
57:Db:107:VAL:O	57:Db:109:LEU:N	2.52	0.43
1:A1:71:A:H1'	1:A1:72:A:OP1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:104:A:C5	1:A1:106:U:C6	3.06	0.43
1:A1:125:U:C5'	1:A1:125:U:C6	3.02	0.43
1:A1:214:G:H3'	1:A1:215:A:C5'	2.49	0.43
1:A1:247:A:C8	1:A1:247:A:C3'	3.01	0.43
1:A1:292:U:C6	1:A1:292:U:O5'	2.67	0.43
1:A1:328:A:N1	1:A1:329:G:C5	2.87	0.43
1:A1:511:A:H4'	1:A1:511:A:OP1	2.15	0.43
1:A1:514:G:N7	1:A1:538:A:H2	2.16	0.43
1:A1:692:C:N3	1:A1:693:U:N3	2.67	0.43
1:A1:747:C:C2	1:A1:748:U:C5	3.07	0.43
1:A1:929:A:N7	1:A1:930:A:C5	2.87	0.43
1:A1:1033:C:O2'	1:A1:1034:C:H5'	2.19	0.43
1:A1:1116:A:C5	1:A1:1131:A:N7	2.87	0.43
1:A1:1121:C:O2	1:A1:1127:G:C2	2.72	0.43
1:A1:1205:C:H6	1:A1:1206:U:O2	2.01	0.43
1:A1:1334:U:H2'	1:A1:1335:U:H1'	2.01	0.43
1:A1:1346:A:N7	1:A1:1347:U:N1	2.67	0.43
1:A1:1429:G:N3	1:A1:1430:U:C6	2.87	0.43
1:A1:1491:U:H3'	1:A1:1492:A:H5"	2.01	0.43
1:A1:1622:G:N3	1:A1:1622:G:H2'	2.33	0.43
1:A1:1662:G:H2'	1:A1:1663:G:H8	1.83	0.43
2:AA:59:LEU:O	2:AA:60:ALA:C	2.62	0.43
5:AD:134:VAL:C	5:AD:136:ALA:N	2.77	0.43
13:AL:75:ASN:C	13:AL:78:HIS:H	2.25	0.43
14:AM:69:LYS:O	14:AM:70:GLN:CB	2.66	0.43
14:AM:138:GLN:O	14:AM:142:GLU:CB	2.67	0.43
18:AQ:80:LEU:C	18:AQ:82:HIS:N	2.77	0.43
29:B1:83:U:C2'	29:B1:84:U:H5'	2.48	0.43
29:B1:198:A:N1	29:B1:219:A:C4	2.87	0.43
29:B1:220:G:C6	29:B1:1389:G:C2	3.07	0.43
29:B1:373:A:N6	29:B1:375:A:N6	2.66	0.43
29:B1:408:A:N1	29:B1:409:A:N1	2.67	0.43
29:B1:413:U:C6	29:B1:413:U:O5'	2.72	0.43
29:B1:574:U:H5'	29:B1:574:U:H6	1.84	0.43
29:B1:612:U:O2	29:B1:613:G:C5	2.72	0.43
29:B1:635:G:C2'	29:B1:636:C:H5'	2.48	0.43
29:B1:789:A:N1	29:B1:790:U:C4	2.87	0.43
29:B1:1029:G:C2'	29:B1:1030:A:H5'	2.49	0.43
29:B1:1031:C:N4	29:B1:1032:C:C4	2.87	0.43
29:B1:1130:A:H5'	29:B1:1130:A:C8	2.54	0.43
29:B1:1287:A:N6	29:B1:1288:U:O4	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1302:A:C1'	29:B1:2887:A:H2	2.27	0.43
29:B1:1302:A:C2'	29:B1:2887:A:C2	3.01	0.43
29:B1:1306:G:O6	45:BP:63:ALA:HA	2.19	0.43
29:B1:1317:A:C5	29:B1:1319:G:C8	3.07	0.43
29:B1:1357:G:C4	29:B1:1358:C:C6	3.07	0.43
29:B1:1412:G:C4	29:B1:1413:G:N7	2.83	0.43
29:B1:1555:U:H5"	29:B1:1580:A:N1	2.34	0.43
29:B1:1622:U:H2'	29:B1:1623:G:H8	1.84	0.43
29:B1:1656:A:O4'	29:B1:1657:C:C4	2.72	0.43
29:B1:1671:C:C4	29:B1:1672:U:C5	3.07	0.43
29:B1:1688:U:C3'	29:B1:1689:U:C5	3.02	0.43
29:B1:1759:C:C3'	29:B1:1760:A:H5"	2.49	0.43
29:B1:1847:A:N3	29:B1:1847:A:O2'	2.49	0.43
29:B1:2111:G:H21	51:BV:48:ARG:C	2.26	0.43
29:B1:2136:C:H2'	29:B1:2137:U:C6	2.54	0.43
29:B1:2243:A:C6	29:B1:2313:A:N7	2.87	0.43
29:B1:2262:A:C3'	29:B1:2263:C:C5'	2.88	0.43
29:B1:2443:A:O2'	29:B1:2444:C:H5'	2.18	0.43
29:B1:2511:A:C2'	29:B1:2512:C:H5'	2.49	0.43
29:B1:2592:G:C5	74:B1:3449:OHX:N4	2.86	0.43
29:B1:2619:G:N3	29:B1:2619:G:H2'	2.34	0.43
29:B1:2620:G:H2'	29:B1:2621:G:H5'	2.00	0.43
29:B1:2659:G:H4'	29:B1:2751:G:O2'	2.19	0.43
29:B1:2665:U:H4'	29:B1:2666:C:OP1	2.18	0.43
29:B1:2684:C:C6	29:B1:2684:C:C4'	2.96	0.43
29:B1:2690:G:O2'	29:B1:2691:A:P	2.74	0.43
29:B1:2712:U:H2'	29:B1:2713:U:O5'	2.18	0.43
29:B1:2737:C:P	49:BT:72:VAL:CB	3.07	0.43
29:B1:2810:C:OP1	29:B1:2810:C:H4'	2.19	0.43
29:B1:2880:U:H1'	34:BC:250:ALA:CB	2.48	0.43
29:B1:2919:A:H2'	29:B1:2920:U:H5"	2.01	0.43
29:B1:3055:U:C2	29:B1:3085:G:C2	3.07	0.43
29:B1:3105:U:H5	29:B1:3128:G:N2	2.00	0.43
29:B1:3242:G:C2'	29:B1:3246:G:H22	2.32	0.43
30:B2:9:C:C5	30:B2:10:C:H1'	2.54	0.43
31:B3:64:U:O2	31:B3:64:U:C2'	2.57	0.43
33:BB:229:ALA:O	33:BB:230:VAL:C	2.61	0.43
34:BC:149:ALA:O	34:BC:150:ARG:C	2.60	0.43
35:BD:115:HIS:O	35:BD:118:LYS:N	2.52	0.43
35:BD:144:LYS:O	35:BD:145:ILE:CB	2.66	0.43
36:BE:173:VAL:O	36:BE:174:PRO:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BG:111:ILE:O	38:BG:113:SER:N	2.51	0.43
44:BO:84:PRO:O	44:BO:86:ASN:CB	2.67	0.43
44:BO:97:SER:O	44:BO:98:LEU:C	2.61	0.43
48:BS:121:HIS:C	48:BS:123:LEU:N	2.75	0.43
51:BV:24:GLY:O	51:BV:25:ASP:O	2.35	0.43
56:Ba:3:GLY:HA2	56:Ba:4:LEU:CB	2.49	0.43
57:Bb:89:THR:CB	57:Bb:90:LYS:O	2.67	0.43
68:Bn:11:UNK:O	68:Bn:15:UNK:CB	2.67	0.43
1:C1:13:C:C5'	3:CB:162:CYS:HA	2.48	0.43
1:C1:38:C:O5'	1:C1:38:C:H6	2.02	0.43
1:C1:71:A:H2	1:C1:72:A:N6	2.11	0.43
1:C1:186:C:N4	1:C1:187:G:C6	2.79	0.43
1:C1:195:G:C4'	1:C1:196:G:OP1	2.67	0.43
1:C1:228:G:C2	1:C1:229:U:O2	2.72	0.43
1:C1:282:C:O2	1:C1:282:C:C2'	2.66	0.43
1:C1:371:G:N2	1:C1:612:U:C2	2.87	0.43
1:C1:379:U:OP2	1:C1:380:U:P	2.77	0.43
1:C1:445:A:H1'	1:C1:524:U:O3'	2.19	0.43
1:C1:486:G:C6	1:C1:487:G:C4	3.07	0.43
1:C1:539:G:N7	1:C1:542:A:N6	2.66	0.43
1:C1:555:A:H4'	1:C1:556:A:OP2	2.18	0.43
1:C1:690:G:C6	1:C1:691:C:C4	3.06	0.43
1:C1:736:C:H2'	1:C1:737:A:O4'	2.19	0.43
1:C1:782:U:C1'	1:C1:783:G:OP2	2.65	0.43
1:C1:929:A:C6	1:C1:930:A:C4	3.07	0.43
1:C1:1003:A:O2'	1:C1:1004:U:OP2	2.30	0.43
1:C1:1025:A:H2'	1:C1:1027:A:O5'	2.19	0.43
1:C1:1201:G:C4	1:C1:1201:G:C3'	3.02	0.43
1:C1:1241:G:N3	1:C1:1243:G:C8	2.85	0.43
1:C1:1284:C:O2	1:C1:1286:U:C2	2.72	0.43
1:C1:1332:C:O2'	1:C1:1333:C:C6	2.51	0.43
1:C1:1345:A:H2	1:C1:1380:U:O4	2.02	0.43
1:C1:1348:A:O5'	15:CN:10:GLU:O	2.37	0.43
1:C1:1472:C:H3'	1:C1:1472:C:OP1	2.19	0.43
1:C1:1474:G:C2	1:C1:1475:A:C6	3.07	0.43
1:C1:1497:U:C4	1:C1:1511:U:O2	2.72	0.43
1:C1:1645:G:C2	1:C1:1757:G:C2	3.07	0.43
1:C1:1752:U:C2	1:C1:1753:A:N7	2.87	0.43
2:CA:6:THR:C	2:CA:8:ASP:N	2.76	0.43
3:CB:118:ALA:HB2	3:CB:124:ALA:CA	2.48	0.43
4:CC:10:LYS:O	4:CC:11:LEU:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CO:39:GLN:C	16:CO:41:MET:N	2.75	0.43
29:D1:88:A:N7	29:D1:99:A:N6	2.66	0.43
29:D1:107:A:C2'	29:D1:108:A:O5'	2.66	0.43
29:D1:109:A:O3'	29:D1:110:G:O4'	2.36	0.43
29:D1:117:U:C6	29:D1:117:U:H3'	2.54	0.43
29:D1:148:G:H2'	29:D1:148:G:N3	2.33	0.43
29:D1:165:A:N1	29:D1:257:U:O4	2.51	0.43
29:D1:371:G:H3'	29:D1:371:G:C8	2.54	0.43
29:D1:375:A:C2'	29:D1:376:G:OP1	2.66	0.43
29:D1:406:G:C2	31:D3:16:G:C4	3.07	0.43
29:D1:508:U:H2'	29:D1:508:U:O2	2.17	0.43
29:D1:528:U:N3	29:D1:564:G:N1	2.67	0.43
29:D1:633:C:O2'	29:D1:634:C:H5'	2.18	0.43
29:D1:673:U:C2'	29:D1:674:G:C5'	2.93	0.43
29:D1:780:A:C2	29:D1:781:G:C4	3.07	0.43
29:D1:789:A:C2	29:D1:790:U:C4	3.07	0.43
29:D1:943:U:OP2	54:DY:10:LYS:N	2.52	0.43
29:D1:1050:U:O2	29:D1:1051:U:H5	2.02	0.43
29:D1:1073:U:C5'	29:D1:1074:U:OP2	2.67	0.43
29:D1:1213:G:C2	29:D1:1293:U:C2	3.06	0.43
29:D1:1239:C:H6	29:D1:1239:C:OP2	2.02	0.43
29:D1:1296:C:H2'	29:D1:1297:C:O4'	2.19	0.43
29:D1:1302:A:N9	29:D1:2887:A:C2	2.87	0.43
29:D1:1316:C:H5'	29:D1:1317:A:H5"	2.01	0.43
29:D1:1343:A:H2'	29:D1:1344:G:C8	2.54	0.43
29:D1:1365:G:H8	29:D1:1365:G:OP2	2.02	0.43
29:D1:1454:A:C2	29:D1:1484:U:O4	2.71	0.43
29:D1:1455:U:C3'	29:D1:1456:A:C8	2.94	0.43
29:D1:1539:A:C3'	29:D1:1540:U:H5'	2.48	0.43
29:D1:1555:U:H5"	29:D1:1580:A:N1	2.33	0.43
29:D1:1605:A:OP1	29:D1:1836:C:OP2	2.37	0.43
29:D1:1610:G:O2'	29:D1:1611:G:H5'	2.18	0.43
29:D1:1618:G:C2	29:D1:1619:A:C4	3.07	0.43
29:D1:1624:G:N7	74:D1:3559:OHX:N1	2.67	0.43
29:D1:1658:G:C2	29:D1:1659:U:C2	3.07	0.43
29:D1:1724:U:HO2'	29:D1:1725:C:C4'	2.32	0.43
29:D1:1797:A:C6	29:D1:1798:A:C5	3.07	0.43
29:D1:1836:C:H2'	29:D1:1837:U:O4'	2.19	0.43
29:D1:2135:U:N3	29:D1:2136:C:C5	2.87	0.43
29:D1:2240:G:O2'	29:D1:2241:U:H5'	2.19	0.43
29:D1:2284:C:C2	29:D1:2308:C:C1'	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2436:U:C5'	29:D1:2437:G:OP2	2.63	0.43
29:D1:2601:A:H2'	29:D1:2602:G:H8	1.83	0.43
29:D1:2632:G:C5	29:D1:2633:U:C5	3.07	0.43
29:D1:2633:U:C2'	29:D1:2634:U:H5'	2.45	0.43
29:D1:2694:A:C5'	29:D1:2695:A:OP2	2.67	0.43
29:D1:2899:C:C2	40:DI:171:ASP:CB	3.02	0.43
29:D1:3025:C:P	40:DI:96:HIS:CB	3.07	0.43
29:D1:3048:A:C8	29:D1:3090:U:C4	3.06	0.43
29:D1:3111:U:O4	29:D1:3121:U:H5	2.02	0.43
29:D1:3327:G:C5	29:D1:3328:G:O6	2.72	0.43
29:D1:3369:G:O2'	29:D1:3370:A:P	2.77	0.43
30:D2:14:U:P	30:D2:14:U:O4'	2.76	0.43
30:D2:38:U:H2'	30:D2:41:G:OP2	2.19	0.43
30:D2:106:U:O2'	30:D2:107:C:P	2.77	0.43
31:D3:9:A:C2	31:D3:10:A:N7	2.87	0.43
31:D3:74:U:OP1	31:D3:76:C:C5	2.72	0.43
31:D3:100:U:H2'	31:D3:101:U:C6	2.54	0.43
32:DA:55:LEU:H	32:DA:167:VAL:CA	2.28	0.43
33:DB:137:ILE:C	33:DB:139:HIS:H	2.26	0.43
33:DB:170:ALA:O	33:DB:171:GLY:O	2.36	0.43
36:DE:158:ARG:O	36:DE:159:VAL:C	2.60	0.43
36:DE:289:LYS:O	36:DE:291:ALA:N	2.52	0.43
37:DF:138:GLN:O	37:DF:139:LYS:C	2.62	0.43
39:DH:223:ALA:C	39:DH:225:LYS:H	2.27	0.43
43:DN:33:ALA:CB	43:DN:48:GLY:N	2.70	0.43
44:DO:173:GLY:HA3	44:DO:181:ASN:O	2.18	0.43
45:DP:58:LEU:N	45:DP:60:LYS:H	2.17	0.43
52:DW:90:ALA:C	52:DW:92:LYS:H	2.26	0.43
52:DW:94:GLN:O	52:DW:97:LYS:N	2.52	0.43
55:DZ:50:VAL:O	55:DZ:53:LYS:CB	2.67	0.43
55:DZ:78:GLY:C	55:DZ:80:ALA:N	2.75	0.43
57:Db:32:TRP:O	57:Db:34:LYS:N	2.35	0.43
57:Db:112:ALA:C	57:Db:114:ALA:N	2.76	0.43
59:Dd:36:SER:O	59:Dd:38:GLY:N	2.48	0.43
59:Dd:37:CYS:O	59:Dd:39:TYR:N	2.52	0.43
1:A1:47:A:O2'	1:A1:100:A:O4'	2.31	0.42
1:A1:70:C:H3'	1:A1:71:A:H8	1.83	0.42
1:A1:87:C:H3'	1:A1:88:U:C5'	2.32	0.42
1:A1:89:G:H2'	1:A1:90:C:C6	2.50	0.42
1:A1:168:A:C5	1:A1:169:A:N6	2.87	0.42
1:A1:225:A:N1	1:A1:836:U:O2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:239:C:H1'	1:A1:240:U:H6	1.81	0.42
1:A1:262:U:C4	1:A1:263:C:C4	3.06	0.42
1:A1:364:G:H21	1:A1:381:C:C1'	2.31	0.42
1:A1:468:A:O3'	1:A1:469:C:C4	2.72	0.42
1:A1:518:A:H3'	1:A1:519:C:C5'	2.49	0.42
1:A1:604:A:H2'	1:A1:605:A:C1'	2.48	0.42
1:A1:756:A:C4	1:A1:757:A:C8	3.06	0.42
1:A1:782:U:H4'	1:A1:783:G:C5'	2.47	0.42
1:A1:838:G:O6	74:A1:1917:OHX:N5	2.52	0.42
1:A1:841:U:C4	1:A1:842:C:N3	2.87	0.42
1:A1:878:G:P	1:A1:943:C:HO2'	2.41	0.42
1:A1:1118:G:N3	1:A1:1119:G:C8	2.87	0.42
1:A1:1294:G:C4	1:A1:1295:G:C8	3.07	0.42
1:A1:1334:U:H2'	1:A1:1335:U:C6	2.54	0.42
1:A1:1369:U:O2	1:A1:1370:U:N3	2.52	0.42
1:A1:1390:U:H2'	1:A1:1390:U:O2	2.19	0.42
1:A1:1503:A:C2	10:AI:13:LYS:CB	3.02	0.42
1:A1:1515:A:C6	15:AN:16:GLN:O	2.72	0.42
1:A1:1556:A:C2'	1:A1:1560:U:C4	2.97	0.42
1:A1:1733:C:H2'	1:A1:1734:U:C6	2.54	0.42
2:AA:109:ASN:O	2:AA:110:TYR:C	2.60	0.42
3:AB:215:PHE:O	3:AB:216:VAL:C	2.62	0.42
6:AE:139:GLN:C	6:AE:140:ILE:O	2.62	0.42
8:AG:149:LEU:HA	8:AG:150:VAL:HA	1.82	0.42
9:AH:61:MET:C	9:AH:63:ALA:N	2.76	0.42
11:AJ:102:LYS:C	11:AJ:104:GLU:H	2.26	0.42
14:AM:35:ASP:O	14:AM:36:ILE:CB	2.68	0.42
23:Ab:79:UNK:O	23:Ab:80:UNK:C	2.66	0.42
25:Ad:109:UNK:O	25:Ad:113:UNK:N	2.52	0.42
29:B1:31:C:C4	29:B1:32:U:C5	3.07	0.42
29:B1:64:G:C2	29:B1:322:U:C2	3.07	0.42
29:B1:118:U:H6	29:B1:118:U:H5'	1.83	0.42
29:B1:164:A:N6	29:B1:165:A:N1	2.66	0.42
29:B1:169:U:O2'	29:B1:170:G:P	2.77	0.42
29:B1:238:A:O2'	29:B1:239:G:P	2.77	0.42
29:B1:299:G:O5'	29:B1:299:G:C8	2.65	0.42
29:B1:363:G:H3'	29:B1:364:G:C5'	2.49	0.42
29:B1:374:A:H4'	29:B1:375:A:H5'	2.01	0.42
29:B1:395:A:C6	29:B1:396:A:N6	2.87	0.42
29:B1:415:G:O6	31:B3:9:A:N6	2.52	0.42
29:B1:431:U:C2	29:B1:432:G:N7	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:514:G:O2'	37:BF:145:LEU:C	2.61	0.42
29:B1:544:C:H2'	29:B1:545:U:H3'	2.00	0.42
29:B1:548:G:C5	29:B1:549:U:H1'	2.53	0.42
29:B1:571:U:C2'	29:B1:571:U:O2	2.65	0.42
29:B1:607:A:C6	29:B1:608:A:C4	3.05	0.42
29:B1:609:G:N7	29:B1:610:G:N1	2.67	0.42
29:B1:684:G:C4	29:B1:685:G:C8	3.07	0.42
29:B1:804:C:N3	29:B1:940:G:C2	2.87	0.42
29:B1:944:C:OP1	29:B1:1432:C:H5'	2.18	0.42
29:B1:947:G:C4	29:B1:948:C:C6	3.07	0.42
29:B1:1099:A:N6	29:B1:1100:U:C4	2.87	0.42
29:B1:1106:G:C4	29:B1:1107:C:C6	3.07	0.42
29:B1:1194:G:C8	29:B1:1319:G:C4'	2.96	0.42
29:B1:1347:U:H6	29:B1:1347:U:P	2.42	0.42
29:B1:1352:A:C8	29:B1:1352:A:OP2	2.72	0.42
29:B1:1358:C:C2	29:B1:1359:C:C6	3.07	0.42
29:B1:1390:A:N6	29:B1:1418:A:O2'	2.49	0.42
29:B1:1461:A:N6	29:B1:1462:A:N6	2.67	0.42
29:B1:1465:A:C6	29:B1:1466:G:C2	3.07	0.42
29:B1:1528:G:C6	29:B1:1529:A:C5	3.07	0.42
29:B1:1560:G:C6	29:B1:1579:C:N3	2.87	0.42
29:B1:1624:G:N2	29:B1:1625:A:C2	2.86	0.42
29:B1:1668:G:O2'	29:B1:1669:C:H5'	2.18	0.42
29:B1:1714:A:C6	29:B1:1728:G:C6	3.07	0.42
29:B1:1728:G:C4'	29:B1:1729:A:OP2	2.65	0.42
29:B1:1731:A:C5	29:B1:1732:U:C6	3.07	0.42
29:B1:1891:A:C6	29:B1:2345:A:N6	2.87	0.42
29:B1:1898:G:OP2	74:B1:3464:OHX:N3	2.52	0.42
29:B1:2175:U:H3'	29:B1:2176:U:H5'	1.99	0.42
29:B1:2186:U:H5'	29:B1:2314:U:OP2	2.18	0.42
29:B1:2249:G:N9	29:B1:2272:G:N7	2.66	0.42
29:B1:2285:C:C5	29:B1:2286:U:C6	3.07	0.42
29:B1:2325:G:C5	29:B1:2326:A:N7	2.87	0.42
29:B1:2413:A:N3	29:B1:2414:G:N7	2.67	0.42
29:B1:2634:U:H1'	29:B1:2645:G:N1	2.34	0.42
29:B1:2654:C:H4'	29:B1:2657:A:C5	2.54	0.42
29:B1:2726:C:H5"	29:B1:2727:A:C5'	2.44	0.42
29:B1:2969:A:C4	29:B1:2970:C:C5	3.07	0.42
29:B1:3011:A:H1'	29:B1:3012:A:C4'	2.49	0.42
29:B1:3127:A:C4	29:B1:3128:G:C8	3.07	0.42
29:B1:3156:U:O2	29:B1:3156:U:C2'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3309:G:H2'	29:B1:3310:A:O4'	2.18	0.42
30:B2:37:G:N2	30:B2:45:A:H61	2.17	0.42
30:B2:59:U:C2	30:B2:60:G:N7	2.87	0.42
30:B2:60:G:C4	30:B2:61:G:N7	2.87	0.42
30:B2:92:A:O2'	30:B2:93:C:H4'	2.19	0.42
31:B3:25:G:H2'	31:B3:26:U:O5'	2.20	0.42
31:B3:68:G:O2'	31:B3:69:U:H5'	2.19	0.42
31:B3:123:G:H3'	31:B3:124:G:C5'	2.47	0.42
31:B3:145:U:C4	31:B3:146:U:N3	2.87	0.42
33:BB:171:GLY:N	62:Bg:68:ALA:HB2	2.33	0.42
35:BD:126:ILE:C	35:BD:128:ALA:H	2.27	0.42
36:BE:18:THR:CB	36:BE:19:PRO:CA	2.93	0.42
36:BE:139:PRO:HA	36:BE:140:ARG:CB	2.49	0.42
36:BE:258:LYS:C	36:BE:260:PHE:N	2.72	0.42
37:BF:32:ALA:O	37:BF:33:SER:O	2.37	0.42
40:BI:86:TYR:CB	40:BI:148:GLY:H	2.31	0.42
40:BI:150:SER:O	40:BI:153:ASP:N	2.52	0.42
47:BR:28:LEU:O	47:BR:29:LEU:C	2.62	0.42
47:BR:149:ALA:HB3	47:BR:150:VAL:C	2.44	0.42
56:Ba:20:LEU:C	56:Ba:22:GLY:N	2.75	0.42
57:Bb:33:ARG:O	57:Bb:34:LYS:O	2.37	0.42
1:C1:57:G:C4	1:C1:58:U:C6	3.07	0.42
1:C1:65:A:H2	1:C1:84:A:N6	2.11	0.42
1:C1:78:A:OP1	1:C1:78:A:C2	2.72	0.42
1:C1:156:A:H2	1:C1:419:G:H21	1.63	0.42
1:C1:204:G:N2	1:C1:264:G:C2	2.87	0.42
1:C1:270:C:H2'	1:C1:271:A:O4'	2.19	0.42
1:C1:313:U:H4'	1:C1:314:C:C5'	2.49	0.42
1:C1:339:C:N3	1:C1:340:U:C5	2.87	0.42
1:C1:341:A:C6	1:C1:342:C:N4	2.86	0.42
1:C1:355:G:P	74:C1:1924:OHX:N3	2.92	0.42
1:C1:365:G:C4	1:C1:377:G:N1	2.86	0.42
1:C1:569:C:H1'	1:C1:583:C:C5'	2.46	0.42
1:C1:603:U:H2'	1:C1:604:A:H8	1.84	0.42
1:C1:809:A:C6	1:C1:810:G:C6	3.07	0.42
1:C1:837:G:O2'	1:C1:838:G:H5'	2.20	0.42
1:C1:887:A:H2'	1:C1:888:U:C6	2.54	0.42
1:C1:916:U:H6	1:C1:916:U:H3'	1.84	0.42
1:C1:974:A:P	29:D1:848:A:O2'	2.76	0.42
1:C1:1045:C:N4	1:C1:1075:C:N3	2.67	0.42
1:C1:1179:G:H3'	1:C1:1180:C:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1232:U:O2'	1:C1:1233:G:H5'	2.19	0.42
1:C1:1411:A:C5'	1:C1:1412:G:OP2	2.67	0.42
1:C1:1651:A:C2	1:C1:1652:C:C2	3.07	0.42
1:C1:1683:C:O2	1:C1:1720:G:N7	2.52	0.42
1:C1:1687:U:C5	1:C1:1688:U:C2	3.07	0.42
1:C1:1774:G:N7	1:C1:1775:U:C4	2.87	0.42
4:CC:96:LEU:C	4:CC:98:ALA:N	2.74	0.42
5:CD:113:ILE:O	5:CD:114:ILE:C	2.61	0.42
6:CE:48:GLN:O	6:CE:49:LEU:C	2.62	0.42
6:CE:61:THR:CB	6:CE:62:ARG:CA	2.97	0.42
9:CH:103:ARG:O	9:CH:106:ALA:HB3	2.19	0.42
11:CJ:91:ALA:HB3	11:CJ:96:TYR:O	2.19	0.42
29:D1:21:G:H2'	29:D1:21:G:N3	2.33	0.42
29:D1:41:G:H1'	29:D1:2801:A:N6	2.34	0.42
29:D1:62:A:C4	29:D1:63:A:N7	2.87	0.42
29:D1:80:G:N1	29:D1:81:C:C5	2.87	0.42
29:D1:118:U:C6	29:D1:118:U:C3'	3.02	0.42
29:D1:189:G:N3	29:D1:191:U:C5	2.87	0.42
29:D1:307:A:C2'	29:D1:308:A:H5'	2.48	0.42
29:D1:345:G:O6	29:D1:348:A:OP1	2.37	0.42
29:D1:577:C:C5'	29:D1:577:C:C6	3.01	0.42
29:D1:648:C:H5	29:D1:2375:G:O5'	1.97	0.42
29:D1:692:A:C2	29:D1:693:A:C1'	3.01	0.42
29:D1:721:G:H2'	29:D1:722:G:OP2	2.18	0.42
29:D1:759:U:C2	29:D1:773:G:C2	3.06	0.42
29:D1:871:U:C2	29:D1:890:C:H1'	2.54	0.42
29:D1:880:G:C4	29:D1:882:A:C5	3.06	0.42
29:D1:896:A:N7	29:D1:2134:G:H1'	2.34	0.42
29:D1:951:A:O2'	29:D1:952:A:H5"	2.18	0.42
29:D1:998:A:O2'	30:D2:103:A:N3	2.41	0.42
29:D1:1021:G:N2	29:D1:1032:C:H1'	2.34	0.42
29:D1:1054:A:C2	29:D1:1055:A:H1'	2.54	0.42
29:D1:1099:A:C6	29:D1:1100:U:N3	2.87	0.42
29:D1:1168:U:O4	29:D1:1330:A:C8	2.72	0.42
29:D1:1199:C:C6	29:D1:2825:C:O5'	2.72	0.42
29:D1:1245:A:H4'	29:D1:1246:G:H5"	2.01	0.42
29:D1:1264:G:H2'	29:D1:1264:G:P	2.55	0.42
29:D1:1269:U:O4	29:D1:1272:C:C5	2.72	0.42
29:D1:1296:C:C2'	29:D1:1297:C:O5'	2.66	0.42
29:D1:1298:C:O5'	29:D1:1298:C:H6	2.02	0.42
29:D1:1351:U:O2	29:D1:1352:A:C6	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1498:A:H2'	29:D1:1499:C:H6	1.83	0.42
29:D1:1590:G:C6	29:D1:1591:G:N7	2.87	0.42
29:D1:1644:C:N4	74:D1:3526:OHX:N1	2.62	0.42
29:D1:1779:C:C5'	29:D1:1780:G:O4'	2.66	0.42
29:D1:1913:A:C6	29:D1:2120:A:N7	2.87	0.42
29:D1:2111:G:H21	51:DV:48:ARG:C	2.27	0.42
29:D1:2229:A:H2'	29:D1:2230:C:C1'	2.48	0.42
29:D1:2311:G:OP2	74:D1:3408:OHX:N5	2.52	0.42
29:D1:2365:C:C2'	29:D1:2366:C:O5'	2.67	0.42
29:D1:2383:C:C6	29:D1:2384:A:N7	2.87	0.42
29:D1:2386:A:N3	31:D3:3:A:H2	2.17	0.42
29:D1:2430:A:C2'	29:D1:2431:C:H5'	2.48	0.42
29:D1:2461:A:C2	29:D1:2485:A:H2'	2.54	0.42
29:D1:2639:G:C2	29:D1:2640:A:C4	3.07	0.42
29:D1:2717:U:O2'	29:D1:2718:U:O4'	2.33	0.42
29:D1:2762:A:N6	29:D1:2800:G:H2'	2.33	0.42
29:D1:2953:U:H2'	29:D1:2954:U:H2'	2.01	0.42
29:D1:3011:A:H8	29:D1:3012:A:C1'	2.15	0.42
29:D1:3024:A:C6	29:D1:3032:A:N3	2.87	0.42
29:D1:3317:U:N3	34:DC:123:TYR:HA	2.24	0.42
29:D1:3320:A:C6	29:D1:3321:C:C4	3.05	0.42
29:D1:3329:U:O4	29:D1:3374:U:C4	2.72	0.42
30:D2:33:U:O2'	30:D2:34:C:O4'	2.36	0.42
30:D2:55:A:H2	30:D2:56:A:N3	2.17	0.42
31:D3:106:C:H6	31:D3:106:C:O5'	2.02	0.42
31:D3:138:A:C2	31:D3:139:U:N1	2.84	0.42
36:DE:156:GLY:HA3	36:DE:181:PRO:HA	2.01	0.42
37:DF:166:LYS:O	37:DF:167:ASN:O	2.36	0.42
40:DI:4:ILE:O	40:DI:5:GLN:CB	2.67	0.42
40:DI:103:ILE:C	40:DI:104:VAL:O	2.61	0.42
73:DM:94:THR:O	73:DM:98:ASN:N	2.52	0.42
45:DP:137:THR:C	45:DP:139:GLY:N	2.72	0.42
54:DY:90:TYR:O	54:DY:91:LEU:CB	2.66	0.42
59:Dd:43:LYS:C	59:Dd:45:ARG:N	2.77	0.42
1:A1:96:G:O2'	1:A1:97:C:H5'	2.18	0.42
1:A1:228:G:C4	1:A1:229:U:C5	3.07	0.42
1:A1:340:U:O2	1:A1:340:U:H2'	2.17	0.42
1:A1:518:A:C8	1:A1:519:C:H6	2.37	0.42
1:A1:629:U:O2	1:A1:971:A:N3	2.52	0.42
1:A1:714:G:C4	1:A1:715:U:H1'	2.54	0.42
1:A1:718:U:C5'	1:A1:719:U:OP2	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:737:A:C2	1:A1:738:G:C5	3.07	0.42
1:A1:749:U:N3	1:A1:801:G:C6	2.87	0.42
1:A1:795:U:C6	1:A1:796:A:C8	3.07	0.42
1:A1:857:U:H6	1:A1:857:U:H3'	1.84	0.42
1:A1:1118:G:C2	1:A1:1119:G:C5	3.06	0.42
1:A1:1118:G:C2	1:A1:1119:G:N9	2.87	0.42
1:A1:1160:A:C6	1:A1:1161:C:N4	2.87	0.42
1:A1:1302:U:O2	1:A1:1302:U:H2'	2.18	0.42
1:A1:1305:U:H3'	1:A1:1306:C:N3	2.33	0.42
1:A1:1336:A:N6	1:A1:1416:G:O6	2.52	0.42
1:A1:1362:U:H3'	1:A1:1363:U:C4'	2.49	0.42
1:A1:1444:A:N3	1:A1:1444:A:H2'	2.34	0.42
1:A1:1462:G:C6	1:A1:1463:C:C4	3.08	0.42
1:A1:1480:G:C2	1:A1:1528:U:C2	3.07	0.42
1:A1:1494:C:C2'	1:A1:1495:C:O5'	2.67	0.42
1:A1:1533:C:H4'	1:A1:1539:G:C6	2.54	0.42
1:A1:1626:U:O2'	1:A1:1627:U:H5'	2.19	0.42
1:A1:1683:C:O2	1:A1:1720:G:N7	2.51	0.42
8:AG:61:THR:O	8:AG:62:GLN:C	2.60	0.42
8:AG:86:GLU:C	8:AG:88:LEU:N	2.77	0.42
12:AK:33:ARG:C	12:AK:35:CYS:H	2.27	0.42
14:AM:134:ARG:O	14:AM:135:ILE:C	2.60	0.42
15:AN:54:GLY:O	15:AN:91:ILE:HA	2.20	0.42
16:AO:119:LYS:O	16:AO:120:HIS:C	2.62	0.42
24:Ac:9:UNK:HA	24:Ac:64:UNK:CB	2.50	0.42
29:B1:13:A:C5'	29:B1:14:U:OP1	2.63	0.42
29:B1:23:A:P	74:B1:3406:OHX:N5	2.92	0.42
29:B1:25:U:H2'	29:B1:26:A:O4'	2.19	0.42
29:B1:107:A:H8	29:B1:107:A:O5'	2.02	0.42
29:B1:159:A:O2'	29:B1:160:G:H8	2.02	0.42
29:B1:380:U:N1	29:B1:381:U:H5	2.17	0.42
29:B1:563:U:H3'	29:B1:564:G:H4'	1.95	0.42
29:B1:565:U:H2'	29:B1:566:G:O4'	2.19	0.42
29:B1:592:A:H3'	29:B1:593:C:C5'	2.48	0.42
29:B1:602:A:N1	29:B1:603:A:N6	2.67	0.42
29:B1:634:C:C4	29:B1:635:G:N7	2.87	0.42
29:B1:645:A:C6	29:B1:2372:A:C2	3.06	0.42
29:B1:668:G:H2'	29:B1:669:U:O4'	2.19	0.42
29:B1:701:G:C5	29:B1:702:C:C4	3.07	0.42
29:B1:809:G:H2'	29:B1:810:A:C8	2.54	0.42
29:B1:836:A:N3	29:B1:836:A:H2'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:900:G:N2	29:B1:1589:A:C5	2.87	0.42
29:B1:937:G:OP2	54:BY:24:LYS:CB	2.67	0.42
29:B1:1064:A:C2	29:B1:1095:U:C2	3.06	0.42
29:B1:1120:A:C2	29:B1:1121:U:C5	3.07	0.42
29:B1:1174:G:N1	29:B1:1318:A:C2	2.88	0.42
29:B1:1192:C:O3'	29:B1:1193:A:C4'	2.66	0.42
29:B1:1220:U:C1'	29:B1:1223:A:N3	2.82	0.42
29:B1:1236:G:C4'	29:B1:1246:G:H5"	2.49	0.42
29:B1:1254:C:C4	74:B1:3567:OHX:N5	2.87	0.42
29:B1:1315:U:O2'	29:B1:1316:C:H5'	2.19	0.42
29:B1:1464:G:H21	29:B1:1466:G:H8	1.67	0.42
29:B1:1591:G:N7	29:B1:1592:G:C5	2.87	0.42
29:B1:1673:G:C4	29:B1:1775:G:N2	2.87	0.42
29:B1:1673:G:C2	29:B1:1775:G:N3	2.86	0.42
29:B1:1685:C:C6	29:B1:1687:U:C4	3.07	0.42
29:B1:1757:A:N6	29:B1:1769:G:C6	2.87	0.42
29:B1:1841:A:C6	29:B1:1848:G:C6	3.07	0.42
29:B1:1859:A:N3	29:B1:1859:A:H2'	2.34	0.42
29:B1:1899:G:H5'	50:BU:21:ALA:HA	2.01	0.42
29:B1:1919:G:O6	74:B1:3593:OHX:N5	2.52	0.42
29:B1:1934:G:H2'	29:B1:1935:G:O4'	2.19	0.42
29:B1:2130:G:O6	29:B1:2323:G:C6	2.72	0.42
29:B1:2131:A:C3'	29:B1:2131:A:C8	3.02	0.42
29:B1:2309:A:C2	29:B1:2961:G:H2'	2.43	0.42
29:B1:2361:A:H2'	29:B1:2362:C:H6	1.82	0.42
29:B1:2420:C:N4	29:B1:2421:U:O4	2.51	0.42
29:B1:2443:A:C5	29:B1:2444:C:N4	2.87	0.42
29:B1:2452:G:O2'	29:B1:2461:A:H5"	2.18	0.42
29:B1:2505:U:H2'	29:B1:2506:U:N1	2.34	0.42
29:B1:2510:U:C2	29:B1:2511:A:H8	2.34	0.42
29:B1:2530:G:OP2	29:B1:2530:G:H2'	2.18	0.42
29:B1:2547:A:C6	29:B1:2548:C:N4	2.87	0.42
29:B1:2652:U:C2'	29:B1:2653:C:O5'	2.66	0.42
29:B1:2654:C:H5'	29:B1:2657:A:N6	2.34	0.42
29:B1:2723:U:H2'	29:B1:2724:U:H6	1.77	0.42
29:B1:2967:A:OP1	33:BB:213:GLY:HA3	2.19	0.42
29:B1:3335:A:N7	29:B1:3336:A:C5	2.87	0.42
29:B1:3348:G:C5	29:B1:3349:C:C2	3.07	0.42
30:B2:20:A:O2'	30:B2:21:G:H5'	2.19	0.42
30:B2:37:G:N2	30:B2:38:U:C4	2.87	0.42
30:B2:77:G:H22	30:B2:101:G:C3'	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:13:A:C2	31:B3:14:C:N3	2.88	0.42
31:B3:70:G:H3'	31:B3:71:A:O4'	2.18	0.42
31:B3:78:G:C5	31:B3:79:A:N7	2.88	0.42
31:B3:86:U:O2'	31:B3:87:G:P	2.77	0.42
33:BB:124:GLY:O	33:BB:125:ALA:C	2.61	0.42
35:BD:190:GLY:O	35:BD:192:GLY:N	2.51	0.42
36:BE:279:LYS:C	36:BE:280:GLU:O	2.59	0.42
38:BG:74:SER:CB	38:BG:75:TYR:O	2.67	0.42
40:BI:21:LYS:C	40:BI:22:SER:O	2.63	0.42
43:BN:87:ALA:C	43:BN:88:ALA:O	2.62	0.42
44:BO:6:TYR:O	44:BO:7:LEU:C	2.62	0.42
45:BP:59:ARG:C	45:BP:61:ALA:N	2.74	0.42
47:BR:72:LYS:HA	47:BR:73:GLN:HA	1.61	0.42
48:BS:24:LEU:O	48:BS:25:ASP:C	2.62	0.42
49:BT:23:GLY:O	49:BT:24:ALA:HB3	2.18	0.42
49:BT:115:LYS:O	49:BT:118:GLU:N	2.52	0.42
51:BV:18:GLY:HA3	51:BV:32:GLN:HA	2.01	0.42
53:BX:28:ARG:O	53:BX:31:LEU:O	2.37	0.42
56:Ba:14:ILE:CB	56:Ba:71:LEU:H	2.32	0.42
57:Bb:39:ASP:O	57:Bb:40:SER:C	2.62	0.42
59:Bd:40:PRO:C	59:Bd:42:ALA:N	2.77	0.42
61:Bf:15:LYS:C	61:Bf:17:CYS:N	2.75	0.42
26:Bj:10:UNK:O	26:Bj:12:UNK:N	2.52	0.42
1:C1:10:G:C4	1:C1:11:A:C8	3.07	0.42
1:C1:13:C:C4	1:C1:14:C:C5	3.07	0.42
1:C1:14:C:H5'	3:CB:163:GLY:HA2	2.00	0.42
1:C1:125:U:O5'	1:C1:125:U:C6	2.52	0.42
1:C1:235:G:H8	1:C1:235:G:OP2	2.02	0.42
1:C1:374:U:C2	1:C1:375:U:C6	3.07	0.42
1:C1:479:C:H2'	1:C1:480:G:N9	2.33	0.42
1:C1:533:U:H2'	1:C1:534:A:C8	2.54	0.42
1:C1:534:A:C2'	1:C1:535:A:H8	2.29	0.42
1:C1:615:A:C2	1:C1:616:G:C8	3.06	0.42
1:C1:627:C:C2	1:C1:973:A:C2	3.07	0.42
1:C1:636:A:H2'	1:C1:637:C:H5'	2.02	0.42
1:C1:774:A:N1	1:C1:775:G:H1'	2.34	0.42
1:C1:812:A:C6	1:C1:859:A:C8	3.07	0.42
1:C1:837:G:O6	74:C1:1928:OHX:N1	2.53	0.42
1:C1:926:A:C5	1:C1:927:C:C6	3.07	0.42
1:C1:946:U:N3	1:C1:947:U:C4	2.87	0.42
1:C1:1044:U:O2	1:C1:1045:C:C5	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1164:G:C2	1:C1:1165:G:C4	3.07	0.42
1:C1:1227:A:C8	1:C1:1229:G:P	3.13	0.42
1:C1:1557:U:H5'	1:C1:1560:U:OP2	2.19	0.42
1:C1:1565:C:O2'	10:CI:15:HIS:HA	2.18	0.42
1:C1:1570:A:H5"	1:C1:1571:C:OP2	2.19	0.42
1:C1:1585:U:O2'	1:C1:1586:A:H5'	2.20	0.42
2:CA:116:LYS:O	2:CA:117:GLU:CB	2.66	0.42
8:CG:57:ALA:HB2	23:Cb:1:UNK:N	2.34	0.42
9:CH:64:ALA:O	9:CH:67:VAL:C	2.63	0.42
22:Ca:2:UNK:C	22:Ca:4:UNK:N	2.82	0.42
29:D1:20:A:N1	31:D3:140:G:C6	2.87	0.42
29:D1:84:U:C5	29:D1:85:A:C5	3.07	0.42
29:D1:111:C:C2'	29:D1:112:U:O5'	2.67	0.42
29:D1:158:G:C2	29:D1:160:G:H5"	2.54	0.42
29:D1:213:A:H2'	29:D1:214:G:O5'	2.19	0.42
29:D1:325:A:C5'	29:D1:327:A:OP2	2.67	0.42
29:D1:398:A:H4'	29:D1:399:A:C5'	2.49	0.42
29:D1:527:A:H3'	29:D1:528:U:H6	1.83	0.42
29:D1:543:C:C5	29:D1:544:C:C4	3.07	0.42
29:D1:564:G:OP2	29:D1:565:U:OP1	2.36	0.42
29:D1:570:A:C5	29:D1:571:U:C5	3.07	0.42
29:D1:594:U:O2	29:D1:595:G:N9	2.50	0.42
29:D1:641:C:HO2'	29:D1:642:U:P	2.37	0.42
29:D1:877:C:H2'	29:D1:878:G:H5'	2.01	0.42
29:D1:1193:A:H5"	29:D1:1194:G:OP2	2.18	0.42
29:D1:1254:C:C5	29:D1:1263:A:OP1	2.67	0.42
29:D1:1278:A:O2'	29:D1:1279:C:C5'	2.61	0.42
29:D1:1307:G:N2	29:D1:1308:A:C2	2.87	0.42
29:D1:1416:C:O2	29:D1:1417:G:C4	2.72	0.42
29:D1:1439:U:C2	29:D1:1440:G:C8	3.07	0.42
29:D1:1444:G:H2'	29:D1:1445:U:O4'	2.18	0.42
29:D1:1489:A:H2'	29:D1:1490:A:C8	2.54	0.42
29:D1:1504:A:H5"	29:D1:1504:A:H8	1.84	0.42
29:D1:1515:A:H2'	29:D1:1516:C:H6	1.84	0.42
29:D1:1789:G:H2'	29:D1:1790:G:H8	1.84	0.42
29:D1:1901:A:O3'	29:D1:2918:G:C5'	2.63	0.42
29:D1:1942:U:C1'	29:D1:3342:A:C2	3.02	0.42
29:D1:2178:A:P	33:DB:126:LEU:HA	2.58	0.42
29:D1:2218:G:N2	29:D1:2228:A:H1'	2.35	0.42
29:D1:2226:U:O2'	29:D1:2227:C:C6	2.70	0.42
29:D1:2260:U:HO2'	29:D1:2261:G:H8	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2278:C:N3	29:D1:2307:G:N2	2.68	0.42
29:D1:2366:C:H1'	29:D1:2382:G:N2	2.33	0.42
29:D1:2416:U:H4'	29:D1:2967:A:O4'	2.19	0.42
29:D1:2488:A:N3	29:D1:2488:A:H2'	2.34	0.42
29:D1:2668:U:H5	74:D1:3599:OHX:N5	2.17	0.42
29:D1:2677:G:H22	29:D1:2679:A:C1'	2.33	0.42
29:D1:2762:A:H1'	29:D1:2800:G:O6	2.20	0.42
29:D1:2776:C:H5'	29:D1:2777:G:H5'	2.01	0.42
29:D1:2823:G:C5	29:D1:2824:G:N7	2.87	0.42
29:D1:2985:C:C2'	29:D1:2986:U:O5'	2.67	0.42
29:D1:3088:G:H3'	29:D1:3089:C:C6	2.54	0.42
29:D1:3196:U:H6	29:D1:3197:G:C2	2.38	0.42
29:D1:3253:G:C5	29:D1:3254:G:N7	2.87	0.42
29:D1:3303:G:OP1	29:D1:3377:G:O3'	2.37	0.42
29:D1:3377:G:O5'	74:D1:3452:OHX:N1	2.52	0.42
30:D2:20:A:C2	30:D2:60:G:C2	3.07	0.42
30:D2:30:G:O6	30:D2:49:G:N1	2.51	0.42
31:D3:86:U:O2'	31:D3:87:G:P	2.77	0.42
31:D3:129:C:H2'	31:D3:130:C:C5	2.51	0.42
35:DD:8:VAL:O	35:DD:9:HIS:C	2.62	0.42
36:DE:28:THR:O	36:DE:30:TYR:N	2.52	0.42
36:DE:85:ARG:C	36:DE:87:GLY:H	2.27	0.42
36:DE:130:GLU:CA	36:DE:131:LEU:CB	2.95	0.42
37:DF:24:ALA:H	37:DF:114:LYS:CB	2.30	0.42
37:DF:134:ARG:C	37:DF:136:GLU:N	2.73	0.42
41:DJ:18:PRO:O	41:DJ:20:SER:N	2.52	0.42
42:DK:77:GLU:O	42:DK:81:GLU:N	2.52	0.42
73:DM:75:LYS:O	73:DM:79:PHE:N	2.51	0.42
43:DN:24:LYS:CA	43:DN:31:LYS:N	2.82	0.42
52:DW:132:ALA:O	52:DW:136:ALA:N	2.52	0.42
56:Da:3:GLY:HA2	56:Da:4:LEU:CB	2.49	0.42
56:Da:14:ILE:CB	56:Da:71:LEU:H	2.31	0.42
57:Db:48:GLY:O	57:Db:49:ASN:CB	2.67	0.42
63:Dh:45:UNK:O	63:Dh:47:UNK:N	2.51	0.42
1:A1:101:U:C2'	1:A1:102:U:O5'	2.68	0.42
1:A1:156:A:C6	1:A1:157:A:C6	3.08	0.42
1:A1:243:G:N1	1:A1:251:A:C5	2.85	0.42
1:A1:283:U:C5'	1:A1:284:G:OP2	2.67	0.42
1:A1:288:A:O2'	1:A1:289:U:P	2.78	0.42
1:A1:311:U:O2'	1:A1:312:A:O5'	2.36	0.42
1:A1:333:A:N1	1:A1:334:G:N1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:356:G:C6	1:A1:357:G:C5	3.07	0.42
1:A1:366:A:H2'	1:A1:367:A:H8	1.84	0.42
1:A1:469:C:H2'	1:A1:470:A:C6	2.54	0.42
1:A1:503:G:C5	1:A1:504:U:C6	3.07	0.42
1:A1:524:U:C2	1:A1:527:A:C2	3.07	0.42
1:A1:568:G:C2	1:A1:569:C:C5	3.07	0.42
1:A1:708:C:H1'	1:A1:709:C:H5"	2.00	0.42
1:A1:802:G:C2	1:A1:803:A:C2	3.07	0.42
1:A1:885:G:C2	1:A1:886:U:N3	2.86	0.42
1:A1:908:U:C5	1:A1:909:U:C5	3.07	0.42
1:A1:1065:A:C6	1:A1:1066:C:C4	3.07	0.42
1:A1:1066:C:N3	1:A1:1067:C:C6	2.88	0.42
1:A1:1104:U:H6	1:A1:1104:U:H3'	1.84	0.42
1:A1:1168:U:O2'	1:A1:1169:G:H5'	2.19	0.42
1:A1:1241:G:C2	1:A1:1243:G:O5'	2.73	0.42
1:A1:1249:U:C2'	1:A1:1250:U:H5'	2.50	0.42
1:A1:1428:G:C2	1:A1:1429:G:C8	3.07	0.42
1:A1:1458:G:C2	1:A1:1459:C:C4	3.07	0.42
1:A1:1477:G:H2'	1:A1:1478:G:H5'	2.02	0.42
1:A1:1486:G:C6	1:A1:1487:A:C6	3.07	0.42
1:A1:1508:U:C4	74:A1:1909:OHX:N6	2.87	0.42
1:A1:1521:G:O6	74:A1:1943:OHX:N6	2.51	0.42
1:A1:1573:A:O4'	1:A1:1574:G:C2	2.72	0.42
1:A1:1575:G:N2	1:A1:1576:A:O4'	2.52	0.42
1:A1:1584:G:C4	1:A1:1584:G:C3'	2.97	0.42
1:A1:1627:U:O2'	1:A1:1628:U:H6	1.94	0.42
1:A1:1779:U:HO2'	1:A1:1780:G:P	2.39	0.42
3:AB:124:ALA:O	3:AB:126:ARG:N	2.53	0.42
3:AB:174:ARG:C	3:AB:176:SER:N	2.77	0.42
4:AC:105:MET:O	4:AC:106:LYS:C	2.62	0.42
9:AH:77:THR:O	9:AH:110:LEU:HA	2.19	0.42
29:B1:36:C:C5	29:B1:37:U:C6	3.07	0.42
29:B1:196:G:O6	29:B1:199:A:OP2	2.36	0.42
29:B1:258:G:H8	29:B1:258:G:OP2	2.00	0.42
29:B1:372:A:H3'	29:B1:373:A:H8	1.83	0.42
29:B1:393:U:N3	29:B1:394:G:C8	2.87	0.42
29:B1:520:U:N3	37:BF:138:GLN:CB	2.82	0.42
29:B1:532:A:C2	29:B1:533:A:N3	2.87	0.42
29:B1:543:C:C5	29:B1:544:C:C4	3.08	0.42
29:B1:585:A:H2'	29:B1:586:C:C5	2.47	0.42
29:B1:624:G:N2	29:B1:625:G:C4	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:642:U:C5'	29:B1:643:U:OP2	2.67	0.42
29:B1:877:C:H2'	29:B1:878:G:H5'	2.00	0.42
29:B1:946:U:H2'	29:B1:946:U:O2	2.18	0.42
29:B1:946:U:O2	29:B1:947:G:C8	2.71	0.42
29:B1:948:C:O2	29:B1:948:C:H2'	2.19	0.42
29:B1:1054:A:C6	29:B1:1055:A:C4	3.07	0.42
29:B1:1063:G:O2'	29:B1:1064:A:H5"	2.18	0.42
29:B1:1107:C:H2'	29:B1:1108:U:C6	2.53	0.42
29:B1:1130:A:C2'	29:B1:1132:C:H6	2.30	0.42
29:B1:1307:G:C2	29:B1:1308:A:C2	3.07	0.42
29:B1:1375:G:N3	29:B1:1407:A:C2	2.78	0.42
29:B1:1399:A:C2	31:B3:8:C:C1'	3.03	0.42
29:B1:1449:A:C8	29:B1:1450:G:N9	2.87	0.42
29:B1:1482:A:OP2	29:B1:1858:A:C6	2.72	0.42
29:B1:1636:U:H3	29:B1:1710:C:H1'	1.84	0.42
29:B1:1660:C:O2'	29:B1:1661:G:C8	2.58	0.42
29:B1:1668:G:H2'	29:B1:1669:C:O4'	2.20	0.42
29:B1:1689:U:N3	29:B1:1690:C:C5	2.87	0.42
29:B1:1718:G:N2	29:B1:1731:A:O2'	2.37	0.42
29:B1:1731:A:C4	29:B1:1732:U:C6	3.07	0.42
29:B1:2222:A:C2	29:B1:2223:A:C6	3.08	0.42
29:B1:2229:A:H2'	29:B1:2230:C:N1	2.34	0.42
29:B1:2252:A:C2	29:B1:2265:C:O2	2.72	0.42
29:B1:2255:A:C2	29:B1:2258:U:OP2	2.71	0.42
29:B1:2273:G:H1'	29:B1:2274:U:H5	1.84	0.42
29:B1:2574:G:C2	29:B1:2575:G:C8	3.07	0.42
29:B1:2608:G:C4	29:B1:2609:A:N7	2.87	0.42
29:B1:2681:U:OP1	42:BK:52:TYR:CA	2.67	0.42
29:B1:2689:A:H1'	29:B1:2702:A:H61	1.84	0.42
29:B1:2743:A:C6	29:B1:2744:U:N3	2.87	0.42
29:B1:2743:A:C4	29:B1:2744:U:C5	3.07	0.42
29:B1:2821:C:H3'	29:B1:2821:C:C6	2.51	0.42
29:B1:2847:A:N7	29:B1:2898:G:C4	2.87	0.42
29:B1:2931:C:C5	29:B1:2932:U:H5	2.37	0.42
29:B1:2932:U:N1	29:B1:2935:U:C5	2.87	0.42
29:B1:2946:A:O5'	29:B1:2946:A:H8	2.02	0.42
29:B1:3012:A:H2'	29:B1:3013:U:H6	1.84	0.42
29:B1:3023:U:C2'	29:B1:3024:A:C8	2.91	0.42
29:B1:3191:G:C6	29:B1:3202:G:C2	3.07	0.42
29:B1:3196:U:OP2	29:B1:3196:U:C4	2.73	0.42
29:B1:3292:A:H2'	29:B1:3293:U:H4'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3302:U:C2'	29:B1:3303:G:H5"	2.49	0.42
29:B1:3322:A:C2	29:B1:3386:G:C2	3.07	0.42
29:B1:3384:U:H2'	29:B1:3385:U:H6	1.79	0.42
29:B1:3394:U:C2'	29:B1:3395:G:N7	2.79	0.42
30:B2:37:G:C2'	30:B2:38:U:O5'	2.68	0.42
30:B2:118:A:H2'	30:B2:119:U:O4'	2.18	0.42
31:B3:24:G:O2'	31:B3:25:G:H5'	2.19	0.42
31:B3:148:G:N2	31:B3:149:A:N3	2.67	0.42
32:BA:145:TYR:HA	32:BA:148:VAL:CB	2.50	0.42
34:BC:59:ASP:HA	34:BC:70:ARG:O	2.20	0.42
34:BC:87:VAL:O	34:BC:88:GLY:C	2.62	0.42
35:BD:51:ALA:HB3	35:BD:104:LYS:HA	2.01	0.42
35:BD:158:SER:O	35:BD:159:ILE:CB	2.66	0.42
36:BE:279:LYS:O	36:BE:280:GLU:C	2.63	0.42
38:BG:163:LEU:O	38:BG:165:ASP:N	2.52	0.42
39:BH:158:ASP:HA	39:BH:159:PRO:HA	1.85	0.42
40:BI:48:VAL:C	40:BI:50:ASN:N	2.74	0.42
41:BJ:39:LYS:C	41:BJ:41:ALA:N	2.77	0.42
42:BK:133:ARG:CB	42:BK:153:LYS:O	2.66	0.42
43:BN:111:ALA:O	43:BN:114:ASP:N	2.52	0.42
44:BO:10:LEU:C	44:BO:12:ARG:H	2.27	0.42
44:BO:157:LYS:O	44:BO:159:ARG:N	2.52	0.42
49:BT:70:SER:C	49:BT:72:VAL:N	2.78	0.42
51:BV:27:LYS:C	51:BV:28:ILE:O	2.63	0.42
51:BV:28:ILE:O	51:BV:29:PHE:CB	2.67	0.42
52:BW:80:ASN:HA	52:BW:132:ALA:HB2	2.01	0.42
53:BX:91:ASN:O	53:BX:93:ALA:N	2.52	0.42
57:Bb:61:LYS:C	57:Bb:63:THR:N	2.77	0.42
22:Bo:14:UNK:HA	22:Bo:17:UNK:CB	2.50	0.42
1:C1:84:A:N7	1:C1:85:A:N7	2.68	0.42
1:C1:95:G:O2'	1:C1:460:A:O2'	2.33	0.42
1:C1:100:A:N3	1:C1:101:U:C6	2.87	0.42
1:C1:133:U:C1'	1:C1:134:U:P	3.07	0.42
1:C1:156:A:C6	1:C1:157:A:C6	3.08	0.42
1:C1:166:C:H2'	1:C1:167:U:C6	2.55	0.42
1:C1:287:G:N1	1:C1:288:A:C6	2.87	0.42
1:C1:294:C:C2	1:C1:295:A:N7	2.87	0.42
1:C1:333:A:N1	1:C1:334:G:C2	2.87	0.42
1:C1:357:G:N9	1:C1:358:U:C5	2.85	0.42
1:C1:541:A:OP2	1:C1:541:A:N9	2.52	0.42
1:C1:720:G:O2'	1:C1:721:U:OP1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:755:A:N9	1:C1:756:A:C8	2.88	0.42
1:C1:806:A:C4	1:C1:807:A:N7	2.88	0.42
1:C1:809:A:N1	1:C1:810:G:N1	2.67	0.42
1:C1:809:A:O2'	1:C1:810:G:H5'	2.19	0.42
1:C1:811:A:C2	1:C1:858:G:H1'	2.53	0.42
1:C1:1008:G:C2	1:C1:1009:U:C1'	3.01	0.42
1:C1:1030:A:N7	1:C1:1792:G:C6	2.86	0.42
1:C1:1155:G:C4	1:C1:1156:C:C5	3.07	0.42
1:C1:1163:A:C6	1:C1:1164:G:C5	3.07	0.42
1:C1:1208:A:H5"	1:C1:1209:C:OP2	2.19	0.42
1:C1:1209:C:C2	1:C1:1210:C:C5	3.06	0.42
1:C1:1338:C:O2'	1:C1:1339:C:H5'	2.20	0.42
1:C1:1348:A:C8	1:C1:1349:G:C5'	3.01	0.42
1:C1:1350:U:H5	1:C1:1351:G:C4	2.37	0.42
1:C1:1522:U:C6	1:C1:1522:U:OP1	2.72	0.42
1:C1:1623:C:C4	1:C1:1624:C:C5	3.07	0.42
1:C1:1760:G:N1	1:C1:1761:U:C5	2.87	0.42
1:C1:1791:A:H8	1:C1:1791:A:H5'	1.83	0.42
4:CC:23:GLU:O	4:CC:24:PHE:C	2.61	0.42
6:CE:50:SER:O	6:CE:51:LYS:C	2.61	0.42
11:CJ:80:ALA:O	11:CJ:81:ILE:C	2.62	0.42
16:CO:80:ASN:C	16:CO:123:GLY:O	2.62	0.42
21:CT:301:LEU:O	21:CT:312:VAL:CA	2.67	0.42
29:D1:31:C:O2	29:D1:1546:A:C2	2.68	0.42
29:D1:290:G:H4'	44:DO:69:GLY:O	2.17	0.42
29:D1:625:G:O2'	29:D1:626:U:O4'	2.26	0.42
29:D1:656:A:H5'	29:D1:657:A:P	2.59	0.42
29:D1:699:A:C6	29:D1:700:C:N3	2.88	0.42
29:D1:704:U:H6	29:D1:704:U:C3'	2.24	0.42
29:D1:857:G:C4'	29:D1:858:A:OP1	2.66	0.42
29:D1:861:C:P	29:D1:862:U:OP2	2.77	0.42
29:D1:955:U:C4	29:D1:956:U:C4	3.07	0.42
29:D1:965:A:N1	29:D1:966:U:O2	2.52	0.42
29:D1:999:G:H5"	30:D2:104:A:H1'	2.01	0.42
29:D1:1019:G:C6	29:D1:1020:G:N7	2.88	0.42
29:D1:1183:C:H2'	29:D1:1184:A:H5"	2.00	0.42
29:D1:1192:C:OP2	29:D1:1192:C:O4'	2.37	0.42
29:D1:1224:C:H6	29:D1:1224:C:OP1	1.98	0.42
29:D1:1277:C:O2'	29:D1:1278:A:H8	2.03	0.42
29:D1:1303:A:N7	29:D1:1304:A:N1	2.66	0.42
29:D1:1307:G:HO2'	29:D1:1308:A:P	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1372:C:O2'	29:D1:1373:A:H5'	2.20	0.42
29:D1:1378:U:C2'	29:D1:1379:G:H8	2.28	0.42
29:D1:1454:A:N1	29:D1:1484:U:O4	2.53	0.42
29:D1:1604:G:H2'	29:D1:1605:A:O4'	2.20	0.42
29:D1:1680:G:C4	29:D1:1681:U:H6	2.33	0.42
29:D1:1683:A:H5"	29:D1:1684:U:OP1	2.19	0.42
29:D1:1684:U:H3'	29:D1:1684:U:C6	2.53	0.42
29:D1:1708:C:O2	29:D1:1708:C:H2'	2.20	0.42
29:D1:1763:U:C4	29:D1:1764:U:C2	3.07	0.42
29:D1:1771:C:N4	29:D1:1772:U:C4	2.87	0.42
29:D1:1783:U:N3	29:D1:1784:G:N7	2.67	0.42
29:D1:1816:A:C8	29:D1:1816:A:OP2	2.72	0.42
29:D1:1900:A:C2	29:D1:1906:G:N9	2.87	0.42
29:D1:1932:A:H2'	29:D1:1933:A:O4'	2.19	0.42
29:D1:2144:A:C5	29:D1:2281:A:N1	2.87	0.42
29:D1:2169:G:O6	74:D1:3492:OHX:N6	2.52	0.42
29:D1:2188:A:C2	62:Dg:19:GLY:HA2	2.55	0.42
29:D1:2266:U:H3	29:D1:2267:C:N4	2.16	0.42
29:D1:2284:C:N4	29:D1:2308:C:OP2	2.52	0.42
29:D1:2419:A:C6	29:D1:2804:A:N6	2.87	0.42
29:D1:2652:U:O2'	29:D1:2653:C:O5'	2.37	0.42
29:D1:2654:C:C5'	29:D1:2657:A:N6	2.82	0.42
29:D1:2654:C:H4'	29:D1:2657:A:C5	2.55	0.42
29:D1:2687:G:OP2	74:D1:3430:OHX:N1	2.52	0.42
29:D1:2823:G:C6	29:D1:2824:G:N7	2.88	0.42
29:D1:2948:C:C6	29:D1:2948:C:C5'	3.02	0.42
29:D1:3131:U:O2	29:D1:3132:C:C6	2.72	0.42
29:D1:3171:U:C2'	29:D1:3172:A:OP2	2.67	0.42
29:D1:3183:A:H2'	29:D1:3184:A:C8	2.54	0.42
29:D1:3206:C:O2	29:D1:3206:C:O4'	2.37	0.42
29:D1:3223:A:N3	29:D1:3223:A:C2'	2.83	0.42
29:D1:3242:G:C2	29:D1:3244:A:H2'	2.50	0.42
29:D1:3298:C:C4	29:D1:3299:A:N6	2.87	0.42
29:D1:3299:A:O5'	29:D1:3299:A:C2'	2.66	0.42
30:D2:67:G:O6	30:D2:111:U:C5	2.72	0.42
30:D2:91:G:O6	30:D2:92:A:N6	2.52	0.42
31:D3:10:A:C4	31:D3:11:C:C6	3.07	0.42
31:D3:58:G:C2'	31:D3:99:C:HO2'	2.32	0.42
31:D3:72:A:H61	31:D3:85:G:H5'	1.83	0.42
34:DC:159:ARG:CA	34:DC:181:ILE:O	2.67	0.42
35:DD:42:VAL:O	35:DD:44:LYS:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DD:155:ASP:O	35:DD:157:GLU:N	2.52	0.42
36:DE:206:GLN:C	36:DE:208:MET:H	2.26	0.42
36:DE:282:ARG:O	36:DE:283:ALA:HB3	2.18	0.42
38:DG:28:ALA:O	38:DG:29:GLU:C	2.61	0.42
40:DI:11:GLU:O	40:DI:12:VAL:C	2.62	0.42
72:DL:9:GLU:CB	72:DL:65:GLN:HA	2.49	0.42
43:DN:33:ALA:CA	43:DN:48:GLY:N	2.82	0.42
43:DN:34:ALA:H	43:DN:47:ASP:C	2.27	0.42
46:DQ:120:ASN:O	46:DQ:144:SER:O	2.37	0.42
47:DR:145:ASN:CB	47:DR:146:SER:CB	2.98	0.42
48:DS:133:LYS:O	48:DS:134:HIS:CB	2.67	0.42
54:DY:5:PHE:O	54:DY:6:THR:C	2.62	0.42
62:Dg:23:ARG:O	62:Dg:24:ARG:C	2.61	0.42
1:A1:96:G:C2'	1:A1:97:C:H5'	2.49	0.42
1:A1:190:C:H5"	1:A1:191:C:O2	2.20	0.42
1:A1:192:U:H2'	1:A1:193:U:C4'	2.48	0.42
1:A1:201:G:C2	1:A1:202:A:C2	3.07	0.42
1:A1:333:A:O2'	1:A1:334:G:O5'	2.30	0.42
1:A1:337:G:O5'	1:A1:337:G:C8	2.72	0.42
1:A1:371:G:C2'	1:A1:372:G:H5'	2.49	0.42
1:A1:406:U:H2'	1:A1:407:A:C8	2.54	0.42
1:A1:758:U:C3'	1:A1:759:U:H6	2.33	0.42
1:A1:1032:G:C2	1:A1:1033:C:C4	3.07	0.42
1:A1:1074:G:N7	74:A1:1939:OHX:N1	2.67	0.42
1:A1:1109:G:O2'	1:A1:1110:G:H5"	2.19	0.42
1:A1:1129:U:H3'	1:A1:1130:G:H8	1.85	0.42
1:A1:1138:A:C2	1:A1:1139:A:C4	3.07	0.42
1:A1:1170:G:N7	1:A1:1574:G:C8	2.87	0.42
1:A1:1195:C:N4	11:AJ:143:ARG:H	2.16	0.42
1:A1:1201:G:C3'	1:A1:1201:G:C4	3.00	0.42
1:A1:1209:C:N3	1:A1:1210:C:C5	2.88	0.42
1:A1:1267:G:C2'	1:A1:1268:G:H5'	2.50	0.42
1:A1:1313:A:C2'	1:A1:1315:U:H5'	2.37	0.42
1:A1:1382:A:C2	1:A1:1383:G:C5	3.07	0.42
1:A1:1507:G:N3	1:A1:1508:U:H1'	2.34	0.42
1:A1:1512:G:C5	1:A1:1513:G:N7	2.87	0.42
1:A1:1765:A:P	74:A1:1931:OHX:N5	2.92	0.42
1:A1:1765:A:C4'	1:A1:1766:A:OP2	2.65	0.42
2:AA:86:VAL:C	2:AA:88:LYS:N	2.77	0.42
3:AB:126:ARG:O	3:AB:127:ALA:C	2.63	0.42
3:AB:181:SER:O	3:AB:182:PRO:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:185:LYS:O	3:AB:187:LEU:N	2.52	0.42
8:AG:42:ARG:C	8:AG:44:GLY:N	2.77	0.42
8:AG:139:TRP:H	8:AG:142:GLU:CA	2.32	0.42
12:AK:58:MET:O	12:AK:62:GLN:HA	2.19	0.42
14:AM:130:ARG:C	14:AM:132:LEU:N	2.72	0.42
28:Ah:2:UNK:O	28:Ah:4:UNK:N	2.52	0.42
29:B1:9:U:C2'	29:B1:10:C:H5'	2.45	0.42
29:B1:98:G:H5"	29:B1:99:A:OP1	2.19	0.42
29:B1:160:G:C2'	29:B1:161:G:O5'	2.68	0.42
29:B1:347:G:O6	29:B1:348:A:N6	2.52	0.42
29:B1:659:G:H1'	29:B1:1435:A:H61	1.84	0.42
29:B1:725:G:C3'	29:B1:726:G:H5"	2.50	0.42
29:B1:777:U:O2'	29:B1:778:U:P	2.77	0.42
29:B1:916:G:N7	29:B1:924:G:C2	2.88	0.42
29:B1:996:A:C2'	29:B1:997:A:H5'	2.49	0.42
29:B1:1008:U:C6	29:B1:1008:U:H5"	2.54	0.42
29:B1:1168:U:C2'	29:B1:1169:A:C5'	2.97	0.42
29:B1:1260:A:C2	29:B1:1279:C:C2	3.07	0.42
29:B1:1401:A:H2'	29:B1:1402:C:O4'	2.19	0.42
29:B1:1404:G:N2	29:B1:1408:G:C4	2.87	0.42
29:B1:1449:A:C4	29:B1:2356:A:C5	3.08	0.42
29:B1:1542:G:N1	29:B1:1543:G:C5	2.88	0.42
29:B1:1580:A:H5'	29:B1:1581:C:OP2	2.19	0.42
29:B1:1593:A:N3	29:B1:1615:C:O2'	2.45	0.42
29:B1:1633:C:N4	29:B1:1634:G:O6	2.52	0.42
29:B1:1863:G:N2	29:B1:1865:A:H2'	2.34	0.42
29:B1:1880:U:C2'	29:B1:1881:A:O5'	2.67	0.42
29:B1:1895:A:C6	29:B1:2335:G:C5	3.07	0.42
29:B1:1912:U:O2'	29:B1:1913:A:P	2.77	0.42
29:B1:2285:C:C3'	29:B1:2285:C:C6	3.02	0.42
29:B1:2582:C:O2	29:B1:2582:C:C2'	2.64	0.42
29:B1:2630:C:O4'	29:B1:2758:A:H1'	2.20	0.42
29:B1:2769:A:C5	29:B1:2770:G:C8	3.07	0.42
29:B1:2882:U:H2'	29:B1:2883:U:H5'	1.99	0.42
29:B1:2980:U:H2'	29:B1:2981:U:C5'	2.49	0.42
29:B1:3103:A:C2	29:B1:3132:C:C2	3.07	0.42
29:B1:3115:C:O2'	29:B1:3117:C:C5	2.72	0.42
29:B1:3141:A:N3	29:B1:3143:C:O3'	2.52	0.42
29:B1:3156:U:O2	29:B1:3156:U:H3'	2.17	0.42
29:B1:3170:A:H2'	29:B1:3171:U:C6	2.54	0.42
29:B1:3215:A:H5"	29:B1:3218:A:P	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3217:C:O2	29:B1:3217:C:C2'	2.67	0.42
29:B1:3373:U:C4	29:B1:3374:U:C4	3.08	0.42
30:B2:11:A:H5"	30:B2:13:A:O2'	2.20	0.42
30:B2:27:A:N1	30:B2:54:U:O4	2.52	0.42
30:B2:28:C:C2	30:B2:29:C:H1'	2.54	0.42
30:B2:65:G:C2	30:B2:66:A:C8	3.06	0.42
30:B2:67:G:N3	30:B2:67:G:C2'	2.82	0.42
34:BC:29:VAL:O	34:BC:30:LYS:C	2.62	0.42
35:BD:63:GLU:C	35:BD:75:PRO:HA	2.40	0.42
35:BD:82:THR:O	35:BD:84:ARG:N	2.53	0.42
35:BD:171:ALA:C	35:BD:173:GLY:N	2.78	0.42
36:BE:147:ASP:O	36:BE:148:ILE:O	2.36	0.42
37:BF:21:THR:O	37:BF:111:LEU:N	2.45	0.42
37:BF:159:LEU:O	37:BF:161:ALA:N	2.53	0.42
41:BJ:56:GLU:H	41:BJ:131:ILE:HA	1.84	0.42
44:BO:144:ARG:C	44:BO:146:ALA:H	2.27	0.42
45:BP:168:TYR:O	45:BP:169:ALA:C	2.63	0.42
47:BR:59:ARG:O	47:BR:60:PRO:O	2.36	0.42
48:BS:106:LEU:O	48:BS:108:LYS:N	2.52	0.42
49:BT:16:GLN:CB	74:BT:201:OHX:N5	2.83	0.42
62:Bg:30:GLU:O	62:Bg:31:ILE:C	2.60	0.42
62:Bg:30:GLU:C	62:Bg:32:GLN:N	2.74	0.42
1:C1:11:A:H8	1:C1:11:A:O5'	2.02	0.42
1:C1:29:U:H2'	1:C1:30:G:C8	2.45	0.42
1:C1:33:U:H3'	1:C1:33:U:C6	2.49	0.42
1:C1:58:U:H5'	1:C1:456:A:O2'	2.19	0.42
1:C1:85:A:H2	1:C1:148:A:N3	2.16	0.42
1:C1:86:A:N3	1:C1:147:A:H2	2.17	0.42
1:C1:149:C:C2'	1:C1:150:U:H6	2.32	0.42
1:C1:192:U:H2'	1:C1:193:U:C4'	2.49	0.42
1:C1:223:U:H2'	1:C1:224:C:C5	2.54	0.42
1:C1:248:U:C1'	1:C1:249:U:OP1	2.68	0.42
1:C1:341:A:N3	1:C1:342:C:C5	2.86	0.42
1:C1:391:A:O2'	1:C1:392:G:H5'	2.20	0.42
1:C1:434:G:N2	1:C1:437:A:C2	2.86	0.42
1:C1:449:C:C2	1:C1:450:U:C5	3.07	0.42
1:C1:450:U:H2'	1:C1:450:U:O2	2.19	0.42
1:C1:460:A:H2'	1:C1:460:A:N3	2.33	0.42
1:C1:461:G:C2	1:C1:462:G:C5	3.08	0.42
1:C1:545:A:N6	1:C1:593:U:HO2'	2.17	0.42
1:C1:552:G:C6	1:C1:553:G:N1	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:564:G:H21	1:C1:577:G:P	2.43	0.42
1:C1:721:U:C6	1:C1:722:G:O4'	2.72	0.42
1:C1:818:C:N3	1:C1:854:U:C4	2.87	0.42
1:C1:836:U:N3	1:C1:837:G:C5	2.87	0.42
1:C1:889:U:H2'	1:C1:890:C:O4'	2.19	0.42
1:C1:912:U:H1'	1:C1:914:G:C6	2.53	0.42
1:C1:974:A:P	29:D1:848:A:HO2'	2.40	0.42
1:C1:998:A:H3'	1:C1:999:U:C5	2.54	0.42
1:C1:1168:U:O2'	1:C1:1169:G:H5'	2.18	0.42
1:C1:1338:C:C2'	1:C1:1339:C:H5'	2.50	0.42
1:C1:1344:A:H1'	1:C1:1345:A:O5'	2.19	0.42
1:C1:1345:A:C2'	1:C1:1346:A:N7	2.76	0.42
1:C1:1370:U:C4	1:C1:1371:A:C8	3.08	0.42
1:C1:1497:U:H2'	1:C1:1498:G:H8	1.85	0.42
1:C1:1632:C:O2'	1:C1:1633:A:C5'	2.67	0.42
5:CD:146:THR:HA	5:CD:159:ALA:HA	2.00	0.42
7:CF:97:TYR:O	7:CF:98:ASN:CB	2.68	0.42
9:CH:30:VAL:N	9:CH:40:ALA:HB3	2.33	0.42
10:CI:36:LEU:CA	10:CI:37:ALA:HB3	2.45	0.42
14:CM:65:ILE:O	14:CM:66:TYR:C	2.62	0.42
21:CT:197:SER:O	21:CT:198:ASN:O	2.38	0.42
24:Cc:85:UNK:C	24:Cc:87:UNK:N	2.82	0.42
29:D1:107:A:C2	29:D1:108:A:C2	3.08	0.42
29:D1:115:A:C2'	29:D1:116:A:H2	2.27	0.42
29:D1:242:C:C2'	29:D1:243:G:O5'	2.67	0.42
29:D1:282:G:C4'	29:D1:283:G:C8	3.02	0.42
29:D1:300:G:C2'	29:D1:301:G:H5'	2.49	0.42
29:D1:328:U:C5	29:D1:329:U:O4	2.73	0.42
29:D1:347:G:H2'	29:D1:348:A:C8	2.54	0.42
29:D1:371:G:H2'	29:D1:373:A:N7	2.34	0.42
29:D1:632:G:C2'	29:D1:633:C:O5'	2.66	0.42
29:D1:692:A:N1	29:D1:693:A:C4	2.87	0.42
29:D1:726:G:H8	29:D1:726:G:H5'	1.84	0.42
29:D1:737:G:C4	29:D1:738:A:C8	3.07	0.42
29:D1:910:G:C8	29:D1:911:C:C5	3.08	0.42
29:D1:944:C:C6	29:D1:1431:G:C6	3.07	0.42
29:D1:957:C:H4'	29:D1:2799:A:C8	2.54	0.42
29:D1:1052:U:C5	29:D1:1053:A:N7	2.87	0.42
29:D1:1063:G:N9	29:D1:1064:A:O4'	2.53	0.42
29:D1:1224:C:O2	29:D1:1224:C:H2'	2.18	0.42
29:D1:1246:G:O2'	29:D1:1247:U:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1410:U:H3'	29:D1:1410:U:C6	2.54	0.42
29:D1:1449:A:H4'	29:D1:2983:C:O2	2.18	0.42
29:D1:1476:G:H1	29:D1:1877:U:H3	1.66	0.42
29:D1:1492:G:O5'	29:D1:1493:G:N2	2.53	0.42
29:D1:1519:G:C3'	29:D1:1520:G:H5"	2.49	0.42
29:D1:1526:U:O2'	29:D1:1595:U:H5'	2.18	0.42
29:D1:1771:C:C4	29:D1:1772:U:C4	3.08	0.42
29:D1:1928:G:C5	29:D1:1929:G:N7	2.87	0.42
29:D1:2105:G:C8	29:D1:2105:G:C5'	2.97	0.42
29:D1:2133:U:O5'	29:D1:2133:U:H6	2.02	0.42
29:D1:2186:U:H2'	29:D1:2187:G:O4'	2.19	0.42
29:D1:2212:C:O2'	29:D1:2233:A:N6	2.52	0.42
29:D1:2295:A:C5	29:D1:2296:A:C6	3.07	0.42
29:D1:2399:A:C6	29:D1:2400:G:O6	2.72	0.42
29:D1:2421:U:C4	29:D1:2422:C:C5	3.07	0.42
29:D1:2513:U:H1'	29:D1:2514:U:P	2.58	0.42
29:D1:2552:C:H42	33:DB:88:ILE:CB	2.32	0.42
29:D1:2727:A:C2	29:D1:2728:G:N1	2.87	0.42
29:D1:2912:G:N7	29:D1:2913:C:N3	2.67	0.42
29:D1:2914:G:C2'	29:D1:2915:U:H6	2.29	0.42
29:D1:3044:G:C6	29:D1:3098:G:C6	3.08	0.42
29:D1:3090:U:O2'	29:D1:3091:A:O5'	2.36	0.42
29:D1:3334:U:O2'	29:D1:3335:A:H5'	2.20	0.42
29:D1:3395:G:O2'	29:D1:3396:U:OP1	2.35	0.42
30:D2:66:A:H8	30:D2:66:A:P	2.42	0.42
30:D2:110:G:O6	30:D2:111:U:O4	2.37	0.42
30:D2:111:U:O3'	30:D2:112:G:C4'	2.67	0.42
31:D3:24:G:H8	31:D3:24:G:C5'	2.32	0.42
33:DB:11:GLY:O	33:DB:12:ALA:C	2.62	0.42
33:DB:233:GLN:O	33:DB:234:LYS:O	2.37	0.42
34:DC:274:SER:O	34:DC:275:ARG:CB	2.67	0.42
38:DG:243:MET:O	38:DG:244:ASN:CB	2.67	0.42
42:DK:92:ARG:O	42:DK:100:GLY:O	2.38	0.42
43:DN:84:LYS:C	43:DN:86:ALA:N	2.75	0.42
44:DO:137:PRO:C	44:DO:139:HIS:N	2.77	0.42
44:DO:177:GLY:O	44:DO:178:HIS:C	2.61	0.42
44:DO:184:LYS:O	44:DO:186:GLY:N	2.52	0.42
45:DP:49:ARG:O	45:DP:52:LEU:N	2.53	0.42
48:DS:146:LYS:O	48:DS:147:ALA:C	2.62	0.42
48:DS:169:ALA:HA	48:DS:172:ARG:CB	2.48	0.42
49:DT:20:ARG:O	49:DT:22:HIS:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DY:14:HIS:O	54:DY:15:VAL:CB	2.67	0.42
58:Dc:4:VAL:HA	58:Dc:6:ALA:H	1.83	0.42
1:A1:186:C:H42	1:A1:199:G:H1	0.63	0.42
1:A1:204:G:C2	1:A1:205:U:C2	3.07	0.42
1:A1:230:C:C2'	1:A1:231:U:H5'	2.49	0.42
1:A1:230:C:O2'	1:A1:231:U:H5'	2.19	0.42
1:A1:267:U:OP2	1:A1:267:U:C6	2.73	0.42
1:A1:319:U:H6	1:A1:319:U:C5'	2.26	0.42
1:A1:405:C:O2	1:A1:405:C:H2'	2.19	0.42
1:A1:434:G:N2	1:A1:437:A:C2	2.87	0.42
1:A1:487:G:O2'	1:A1:488:G:H8	2.02	0.42
1:A1:632:U:C2'	1:A1:633:U:O5'	2.67	0.42
1:A1:727:U:O2'	1:A1:728:U:H5'	2.19	0.42
1:A1:743:U:H5	1:A1:809:A:C2	2.36	0.42
1:A1:945:U:N3	1:A1:946:U:H5	2.18	0.42
1:A1:1025:A:N7	1:A1:1027:A:N9	2.68	0.42
1:A1:1142:A:C8	1:A1:1142:A:H5'	2.54	0.42
1:A1:1256:A:H5"	1:A1:1257:U:O5'	2.19	0.42
1:A1:1275:A:C6	1:A1:1438:G:C6	3.08	0.42
1:A1:1306:C:C4	1:A1:1319:A:N1	2.88	0.42
1:A1:1330:G:H2'	1:A1:1331:A:O4'	2.19	0.42
1:A1:1366:U:C4	1:A1:1367:G:N7	2.87	0.42
1:A1:1378:U:O2	1:A1:1378:U:C2'	2.67	0.42
1:A1:1416:G:C2	1:A1:1417:A:H1'	2.53	0.42
1:A1:1437:U:O2	1:A1:1437:U:H2'	2.16	0.42
1:A1:1543:A:N3	1:A1:1543:A:H2'	2.34	0.42
1:A1:1565:C:O2'	10:AI:15:HIS:HA	2.19	0.42
1:A1:1651:A:N1	1:A1:1652:C:C4	2.87	0.42
5:AD:60:ASP:O	5:AD:61:TYR:CB	2.67	0.42
5:AD:199:ILE:C	5:AD:201:ALA:N	2.67	0.42
11:AJ:24:ALA:HA	11:AJ:64:ASP:HA	2.00	0.42
12:AK:29:GLN:C	12:AK:31:ASN:N	2.75	0.42
17:AP:123:LYS:O	17:AP:124:VAL:C	2.62	0.42
19:AR:26:THR:HA	19:AR:37:SER:C	2.45	0.42
21:AT:139:GLN:O	21:AT:141:LEU:N	2.52	0.42
29:B1:32:U:C5	29:B1:33:G:N7	2.87	0.42
29:B1:102:C:O2'	29:B1:103:G:H5'	2.20	0.42
29:B1:156:G:C8	29:B1:157:A:N3	2.86	0.42
29:B1:211:A:H5'	29:B1:229:G:C1'	2.49	0.42
29:B1:307:A:H2'	29:B1:308:A:O4'	2.19	0.42
29:B1:307:A:N6	29:B1:308:A:C6	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:326:U:OP1	29:B1:327:A:OP2	2.37	0.42
29:B1:353:G:O2'	29:B1:354:U:OP2	2.37	0.42
29:B1:383:G:O3'	29:B1:385:A:N7	2.53	0.42
29:B1:517:G:O3'	29:B1:518:G:O4'	2.38	0.42
29:B1:520:U:H4'	29:B1:521:A:C5'	2.50	0.42
29:B1:651:G:C6	29:B1:652:G:O6	2.73	0.42
29:B1:708:G:C2	29:B1:712:G:C6	3.08	0.42
29:B1:731:U:OP1	47:BR:135:GLN:CB	2.67	0.42
29:B1:737:G:N3	29:B1:738:A:C8	2.88	0.42
29:B1:759:U:C5	29:B1:773:G:C6	3.07	0.42
29:B1:771:A:N6	29:B1:772:U:H3	2.17	0.42
29:B1:859:G:H21	29:B1:861:C:H1'	1.78	0.42
29:B1:869:G:H2'	29:B1:869:G:N3	2.35	0.42
29:B1:883:A:C5	29:B1:921:A:N6	2.87	0.42
29:B1:1005:G:H2'	29:B1:1006:A:O4'	2.19	0.42
29:B1:1021:G:N2	29:B1:1032:C:H1'	2.35	0.42
29:B1:1063:G:C8	29:B1:1064:A:C1'	3.02	0.42
29:B1:1075:A:H2	69:Bp:246:UNK:CA	2.26	0.42
29:B1:1149:G:H3'	29:B1:1150:A:C5'	2.50	0.42
29:B1:1407:A:H5'	29:B1:1408:G:P	2.59	0.42
29:B1:1471:U:C1'	48:BS:3:ASN:HA	2.49	0.42
29:B1:1704:A:N3	29:B1:1741:A:C5	2.87	0.42
29:B1:1779:C:C5'	29:B1:1780:G:O4'	2.68	0.42
29:B1:1898:G:O3'	50:BU:21:ALA:CB	2.68	0.42
29:B1:2108:C:H1'	29:B1:3342:A:N7	2.34	0.42
29:B1:2131:A:H3'	29:B1:2132:C:H5"	2.00	0.42
29:B1:2172:A:H1'	33:BB:10:LYS:C	2.44	0.42
29:B1:2196:C:C2	29:B1:2242:A:N6	2.87	0.42
29:B1:2249:G:C4	29:B1:2272:G:C5	3.07	0.42
29:B1:2259:A:C6	29:B1:2260:U:C2	3.08	0.42
29:B1:2474:G:H2'	29:B1:2475:G:C8	2.55	0.42
29:B1:2628:A:C6	29:B1:2629:U:C6	3.08	0.42
29:B1:2631:U:H5'	29:B1:2757:U:O2	2.19	0.42
29:B1:2639:G:N3	29:B1:2639:G:H2'	2.35	0.42
29:B1:2677:G:C2	29:B1:2679:A:C4	3.06	0.42
29:B1:2762:A:C8	29:B1:2763:U:C5	3.08	0.42
29:B1:2853:A:C6	29:B1:2854:U:C2	3.07	0.42
29:B1:2881:C:O2	29:B1:2882:U:C6	2.73	0.42
29:B1:2971:A:H4'	29:B1:2972:G:C5'	2.50	0.42
29:B1:3011:A:H1'	29:B1:3012:A:H1'	2.01	0.42
29:B1:3014:U:O2	29:B1:3041:U:C2	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3046:A:H2'	29:B1:3047:U:H5'	2.02	0.42
29:B1:3083:G:C4	29:B1:3084:C:C6	3.07	0.42
29:B1:3238:G:C6	29:B1:3250:U:N3	2.87	0.42
29:B1:3312:U:H5"	29:B1:3313:U:OP2	2.20	0.42
34:BC:27:ALA:HB2	34:BC:219:ALA:HA	2.01	0.42
41:BJ:39:LYS:O	41:BJ:40:LYS:C	2.62	0.42
41:BJ:215:GLU:C	41:BJ:217:PHE:H	2.27	0.42
43:BN:11:ASN:HA	43:BN:12:TRP:HA	1.96	0.42
43:BN:107:GLU:O	43:BN:110:ALA:HB3	2.19	0.42
45:BP:94:ARG:O	45:BP:97:ALA:HB3	2.19	0.42
45:BP:162:VAL:O	45:BP:163:SER:C	2.62	0.42
46:BQ:70:THR:O	46:BQ:71:ALA:O	2.38	0.42
47:BR:108:ALA:O	47:BR:109:GLY:C	2.61	0.42
53:BX:28:ARG:O	53:BX:31:LEU:C	2.61	0.42
53:BX:112:ASP:O	53:BX:113:LYS:C	2.62	0.42
57:Bb:103:LYS:C	57:Bb:105:ARG:N	2.77	0.42
68:Bn:34:UNK:O	68:Bn:38:UNK:CB	2.68	0.42
1:C1:23:G:H2'	1:C1:24:U:O4'	2.18	0.42
1:C1:60:U:C2'	1:C1:61:A:H5'	2.50	0.42
1:C1:123:G:C6	1:C1:124:A:C8	3.07	0.42
1:C1:192:U:C6	1:C1:192:U:C3'	3.02	0.42
1:C1:192:U:OP1	1:C1:192:U:C2	2.73	0.42
1:C1:194:U:H5'	1:C1:195:G:O4'	2.19	0.42
1:C1:266:A:O3'	1:C1:267:U:C4'	2.68	0.42
1:C1:271:A:C2	1:C1:285:G:C5	3.06	0.42
1:C1:353:A:C6	1:C1:354:C:C2	3.07	0.42
1:C1:392:G:N2	1:C1:406:U:C2	2.87	0.42
1:C1:524:U:C2	1:C1:527:A:C2	3.07	0.42
1:C1:526:A:OP1	1:C1:527:A:N6	2.53	0.42
1:C1:586:G:C2'	1:C1:587:C:O5'	2.68	0.42
1:C1:589:C:H2'	1:C1:590:C:H6	1.83	0.42
1:C1:602:U:H2'	1:C1:603:U:C6	2.54	0.42
1:C1:939:A:C4	1:C1:940:A:C8	3.07	0.42
1:C1:1087:A:C6	1:C1:1088:A:C6	3.08	0.42
1:C1:1109:G:C4	1:C1:1110:G:N7	2.87	0.42
1:C1:1120:U:H2'	1:C1:1121:C:H6	1.85	0.42
1:C1:1133:A:N3	1:C1:1133:A:H2'	2.34	0.42
1:C1:1181:U:C2	1:C1:1182:U:C6	3.08	0.42
1:C1:1323:C:H5"	1:C1:1324:G:P	2.59	0.42
1:C1:1339:C:H2'	1:C1:1340:U:H5'	2.00	0.42
1:C1:1408:G:O2'	1:C1:1409:G:N3	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1480:G:C2	1:C1:1528:U:N3	2.88	0.42
1:C1:1557:U:H5	10:CI:81:ARG:O	2.03	0.42
1:C1:1563:C:C2	1:C1:1564:U:C5	3.08	0.42
1:C1:1614:A:H2	1:C1:1616:G:P	2.42	0.42
1:C1:1658:G:OP1	1:C1:1659:A:P	2.77	0.42
1:C1:1667:A:H2'	1:C1:1668:G:H8	1.85	0.42
1:C1:1793:G:N2	1:C1:1794:A:H1'	2.34	0.42
4:CC:92:GLN:O	4:CC:94:ARG:N	2.53	0.42
6:CE:96:VAL:C	6:CE:98:ALA:N	2.76	0.42
20:CS:39:CYS:O	20:CS:40:ARG:C	2.63	0.42
20:CS:39:CYS:O	20:CS:40:ARG:O	2.38	0.42
29:D1:197:G:C4	29:D1:198:A:C8	3.08	0.42
29:D1:263:C:P	29:D1:264:G:OP2	2.78	0.42
29:D1:269:G:C2	29:D1:294:U:C6	3.06	0.42
29:D1:523:A:C2	29:D1:524:U:C1'	3.02	0.42
29:D1:667:C:H2'	29:D1:668:G:O5'	2.20	0.42
29:D1:684:G:C5	29:D1:685:G:N7	2.88	0.42
29:D1:685:G:H2'	29:D1:686:G:H5'	2.02	0.42
29:D1:836:A:C4	29:D1:837:A:C8	3.07	0.42
29:D1:913:A:H8	29:D1:913:A:H5'	1.84	0.42
29:D1:914:A:P	29:D1:914:A:H8	2.41	0.42
29:D1:919:U:C4	29:D1:923:C:C2	3.08	0.42
29:D1:943:U:O2'	29:D1:944:C:C5'	2.67	0.42
29:D1:954:U:OP1	29:D1:954:U:C4'	2.67	0.42
29:D1:960:U:O3'	29:D1:961:C:H4'	2.19	0.42
29:D1:962:A:N6	29:D1:2408:U:O2	2.52	0.42
29:D1:1256:G:C5	29:D1:1257:C:C5	3.07	0.42
29:D1:1259:A:N6	29:D1:1260:A:N1	2.68	0.42
29:D1:1389:G:N3	29:D1:1418:A:H2	2.17	0.42
29:D1:1404:G:C6	29:D1:1408:G:C6	3.06	0.42
29:D1:1463:U:C5	29:D1:1464:G:N7	2.87	0.42
29:D1:1554:U:H4'	29:D1:1580:A:N6	2.34	0.42
29:D1:1618:G:C6	29:D1:1619:A:C6	3.07	0.42
29:D1:1685:C:C6	29:D1:1687:U:C4	3.07	0.42
29:D1:1739:U:H2'	29:D1:1740:U:C4'	2.50	0.42
29:D1:1793:C:C2'	29:D1:1794:G:OP1	2.67	0.42
29:D1:1860:G:H2'	29:D1:1861:G:C8	2.54	0.42
29:D1:1886:A:C5	29:D1:1887:A:C8	3.07	0.42
29:D1:2243:A:C2	29:D1:2313:A:C5	3.08	0.42
29:D1:2247:G:OP1	74:D1:3598:OHX:N1	2.52	0.42
29:D1:2259:A:C6	29:D1:2260:U:O2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2265:C:O5'	29:D1:2265:C:H6	2.02	0.42
29:D1:2288:G:H2'	29:D1:2289:U:H6	1.78	0.42
29:D1:2349:U:C4	29:D1:2350:C:N4	2.88	0.42
29:D1:2413:A:N3	29:D1:2414:G:N7	2.68	0.42
29:D1:2417:U:C4	29:D1:2606:G:O6	2.72	0.42
29:D1:2469:G:C5	29:D1:2477:G:N2	2.88	0.42
29:D1:2529:A:C8	29:D1:2530:G:N7	2.88	0.42
29:D1:2643:A:C6	29:D1:2645:G:H1'	2.54	0.42
29:D1:2652:U:C2'	29:D1:2653:C:O5'	2.68	0.42
29:D1:2748:A:C5	29:D1:2749:G:H1'	2.55	0.42
29:D1:2899:C:C2	40:DI:171:ASP:O	2.72	0.42
29:D1:3050:U:C5	29:D1:3051:U:C4	3.07	0.42
29:D1:3057:U:C5'	29:D1:3086:A:H61	2.29	0.42
29:D1:3074:G:H2'	29:D1:3075:G:C8	2.55	0.42
29:D1:3343:G:C8	29:D1:3344:A:C5	3.08	0.42
30:D2:11:A:P	30:D2:13:A:C5	3.13	0.42
30:D2:11:A:P	30:D2:13:A:N7	2.92	0.42
30:D2:13:A:N3	30:D2:13:A:C4'	2.82	0.42
30:D2:73:C:C2	30:D2:74:C:C5	3.06	0.42
30:D2:90:U:H3'	30:D2:91:G:H8	1.85	0.42
31:D3:57:C:H4'	31:D3:63:G:C5	2.55	0.42
31:D3:111:A:C1'	31:D3:112:U:OP1	2.67	0.42
34:DC:90:VAL:CB	34:DC:103:THR:N	2.82	0.42
34:DC:335:ILE:O	34:DC:336:VAL:O	2.37	0.42
35:DD:8:VAL:O	35:DD:17:ALA:HB3	2.19	0.42
39:DH:111:LYS:HA	39:DH:112:GLU:HA	1.48	0.42
41:DJ:170:LYS:CB	41:DJ:172:GLY:N	2.82	0.42
42:DK:110:ILE:O	42:DK:111:ASP:CB	2.67	0.42
73:DM:29:GLY:N	73:DM:186:THR:O	2.53	0.42
43:DN:12:TRP:N	43:DN:60:LEU:HA	2.34	0.42
43:DN:23:ILE:CA	43:DN:32:LEU:HA	2.50	0.42
44:DO:22:LEU:C	44:DO:24:ARG:N	2.77	0.42
44:DO:137:PRO:C	44:DO:139:HIS:H	2.26	0.42
45:DP:60:LYS:O	45:DP:61:ALA:C	2.61	0.42
49:DT:50:LYS:O	49:DT:52:MET:N	2.53	0.42
50:DU:105:PRO:O	50:DU:106:LYS:C	2.61	0.42
51:DV:32:GLN:O	51:DV:33:ASN:CB	2.68	0.42
52:DW:132:ALA:O	52:DW:135:ILE:N	2.53	0.42
57:Db:108:ILE:O	57:Db:109:LEU:O	2.38	0.42
65:Dk:14:UNK:O	65:Dk:17:UNK:CB	2.68	0.42
1:A1:78:A:OP1	1:A1:78:A:C2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:104:A:N7	1:A1:106:U:C5	2.88	0.42
1:A1:151:G:C6	1:A1:164:A:C6	3.07	0.42
1:A1:169:A:O2'	1:A1:171:A:C8	2.67	0.42
1:A1:249:U:C6	1:A1:249:U:P	3.13	0.42
1:A1:273:G:O2'	1:A1:274:G:P	2.77	0.42
1:A1:337:G:H5'	1:A1:338:C:C5	2.54	0.42
1:A1:357:G:H2'	1:A1:357:G:N3	2.34	0.42
1:A1:440:U:H3'	1:A1:441:A:C5'	2.43	0.42
1:A1:446:A:C6	1:A1:447:U:C5	3.08	0.42
1:A1:492:A:N7	1:A1:494:U:OP2	2.53	0.42
1:A1:709:C:H42	1:A1:730:G:H1'	1.83	0.42
1:A1:715:U:N3	1:A1:724:C:N4	2.68	0.42
1:A1:725:U:C2	1:A1:726:C:H1'	2.54	0.42
1:A1:760:A:C6	1:A1:791:A:C6	3.08	0.42
1:A1:782:U:C1'	1:A1:783:G:OP2	2.67	0.42
1:A1:853:G:C6	1:A1:854:U:O4	2.73	0.42
1:A1:871:G:C6	1:A1:957:G:N1	2.88	0.42
1:A1:938:G:C2	1:A1:942:G:C5	3.08	0.42
1:A1:940:A:N1	1:A1:941:A:C5	2.87	0.42
1:A1:1050:G:H2'	1:A1:1051:G:H4'	2.00	0.42
1:A1:1109:G:C3'	1:A1:1110:G:H5"	2.47	0.42
1:A1:1250:U:C2	1:A1:1251:U:C2	3.08	0.42
1:A1:1263:G:N2	1:A1:1264:G:H1'	2.32	0.42
1:A1:1282:U:H5"	1:A1:1283:U:OP2	2.19	0.42
1:A1:1348:A:P	15:AN:12:GLN:O	2.78	0.42
1:A1:1467:C:H2'	1:A1:1468:U:H6	1.81	0.42
1:A1:1474:G:C4	1:A1:1475:A:N7	2.88	0.42
1:A1:1484:G:H22	1:A1:1605:G:N2	2.18	0.42
1:A1:1538:U:C6	1:A1:1538:U:C3'	3.02	0.42
1:A1:1568:C:OP1	1:A1:1568:C:H4'	2.19	0.42
1:A1:1573:A:C4'	1:A1:1574:G:OP2	2.68	0.42
1:A1:1636:C:C4	1:A1:1638:G:N3	2.88	0.42
1:A1:1716:C:C2'	1:A1:1717:G:H5'	2.49	0.42
1:A1:1783:C:N3	1:A1:1784:C:C5	2.88	0.42
2:AA:65:ALA:C	2:AA:67:ILE:H	2.27	0.42
5:AD:134:VAL:C	5:AD:136:ALA:H	2.27	0.42
5:AD:176:THR:O	5:AD:179:ALA:HB3	2.18	0.42
6:AE:82:ARG:O	6:AE:84:GLY:N	2.50	0.42
6:AE:135:ALA:HB2	6:AE:140:ILE:HA	1.99	0.42
8:AG:123:HIS:O	8:AG:124:ARG:C	2.63	0.42
9:AH:85:ALA:HA	9:AH:86:THR:HA	1.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:32:ASP:C	10:AI:34:VAL:N	2.76	0.42
10:AI:85:ILE:O	10:AI:86:VAL:C	2.62	0.42
12:AK:62:GLN:O	12:AK:63:LYS:C	2.62	0.42
13:AL:24:GLY:O	13:AL:25:ASN:CB	2.67	0.42
16:AO:39:GLN:C	16:AO:41:MET:N	2.77	0.42
20:AS:42:CYS:O	20:AS:45:GLU:N	2.53	0.42
21:AT:21:THR:N	21:AT:37:SER:HA	2.25	0.42
29:B1:71:A:H5"	29:B1:73:C:C4	2.54	0.42
29:B1:83:U:C4	29:B1:84:U:C2	3.07	0.42
29:B1:128:G:C5	29:B1:129:U:C4	3.08	0.42
29:B1:158:G:C8	29:B1:158:G:H3'	2.55	0.42
29:B1:247:C:N4	29:B1:248:U:C2	2.88	0.42
29:B1:268:A:N6	29:B1:296:A:OP2	2.52	0.42
29:B1:377:A:H2'	29:B1:391:A:H61	1.82	0.42
29:B1:394:G:N2	29:B1:399:A:C8	2.87	0.42
29:B1:574:U:C2'	29:B1:575:G:C5'	2.59	0.42
29:B1:756:U:C5'	29:B1:757:C:OP2	2.66	0.42
29:B1:800:G:C4	29:B1:933:A:N6	2.88	0.42
29:B1:836:A:H3'	29:B1:837:A:H8	1.85	0.42
29:B1:943:U:C3'	54:BY:10:LYS:HA	2.46	0.42
29:B1:1064:A:H5"	29:B1:1095:U:C4	2.55	0.42
29:B1:1103:A:O4'	29:B1:1103:A:OP1	2.37	0.42
29:B1:1220:U:H2'	29:B1:1286:A:N6	2.34	0.42
29:B1:1237:G:C2	29:B1:1263:A:N1	2.88	0.42
29:B1:1257:C:OP2	29:B1:1258:U:C2	2.72	0.42
29:B1:1279:C:C2	29:B1:1280:C:C6	3.07	0.42
29:B1:1435:A:C8	29:B1:1437:C:C1'	3.03	0.42
29:B1:1455:U:OP1	29:B1:3078:U:C2	2.72	0.42
29:B1:1468:A:C6	29:B1:1469:C:N4	2.88	0.42
29:B1:1648:A:C2'	29:B1:1649:U:O4'	2.53	0.42
29:B1:1700:G:C5	29:B1:1701:C:C5	3.07	0.42
29:B1:1794:G:H5"	33:BB:186:PHE:CB	2.49	0.42
29:B1:1814:A:O3'	29:B1:1816:A:N3	2.52	0.42
29:B1:1838:G:C5'	29:B1:1839:A:O4'	2.68	0.42
29:B1:2155:G:C6	29:B1:2156:C:C4	3.08	0.42
29:B1:2255:A:H4'	29:B1:2256:A:OP1	2.12	0.42
29:B1:2328:U:N3	29:B1:2329:C:C5	2.88	0.42
29:B1:2416:U:H2'	29:B1:2417:U:C6	2.55	0.42
29:B1:2436:U:C5'	29:B1:2437:G:OP2	2.64	0.42
29:B1:2843:U:H3'	29:B1:2843:U:P	2.59	0.42
29:B1:2859:U:O2'	74:B1:3417:OHX:N4	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2917:G:N3	29:B1:2918:G:C8	2.88	0.42
29:B1:3070:A:C4	29:B1:3071:U:C5	3.08	0.42
29:B1:3088:G:C5	29:B1:3089:C:C4	3.07	0.42
29:B1:3113:A:C2	29:B1:3122:A:C8	3.07	0.42
29:B1:3152:U:H5'	29:B1:3294:A:C4'	2.50	0.42
29:B1:3197:G:H2'	29:B1:3198:U:OP1	2.19	0.42
29:B1:3274:A:C1'	29:B1:3275:U:O5'	2.57	0.42
29:B1:3323:A:C2	29:B1:3324:C:C2	3.08	0.42
31:B3:102:U:O4	31:B3:103:G:C6	2.73	0.42
31:B3:143:U:H2'	31:B3:144:G:H8	1.78	0.42
32:BA:167:VAL:O	32:BA:168:ALA:HB2	2.19	0.42
33:BB:184:ARG:C	33:BB:186:PHE:N	2.73	0.42
34:BC:201:LYS:C	34:BC:203:VAL:H	2.27	0.42
35:BD:39:PHE:C	35:BD:41:SER:N	2.77	0.42
35:BD:251:THR:O	35:BD:252:GLU:O	2.37	0.42
37:BF:16:ALA:C	37:BF:18:LEU:H	2.27	0.42
37:BF:152:THR:O	37:BF:153:PRO:C	2.63	0.42
43:BN:102:LYS:O	43:BN:104:ALA:N	2.53	0.42
45:BP:137:THR:C	45:BP:139:GLY:N	2.75	0.42
45:BP:184:THR:O	45:BP:187:GLU:CB	2.67	0.42
47:BR:51:ALA:O	47:BR:52:LEU:C	2.59	0.42
47:BR:123:THR:C	47:BR:125:ASP:H	2.26	0.42
48:BS:25:ASP:O	48:BS:27:ASN:N	2.51	0.42
48:BS:146:LYS:O	48:BS:147:ALA:C	2.62	0.42
49:BT:26:HIS:C	49:BT:28:SER:H	2.28	0.42
51:BV:34:SER:O	51:BV:35:LYS:C	2.62	0.42
58:Bc:39:PRO:O	58:Bc:41:LEU:O	2.37	0.42
59:Bd:26:SER:CB	59:Bd:35:SER:CB	2.97	0.42
60:Be:6:SER:O	60:Be:7:PHE:C	2.62	0.42
1:C1:8:U:O2'	74:C1:1953:OHX:N4	2.52	0.42
1:C1:14:C:C2	1:C1:15:U:C5	3.07	0.42
1:C1:93:A:N6	1:C1:398:G:C5	2.87	0.42
1:C1:234:G:H3'	1:C1:234:G:N3	2.35	0.42
1:C1:321:C:C2'	1:C1:322:G:C5'	2.94	0.42
1:C1:335:U:H5'	1:C1:336:G:OP2	2.19	0.42
1:C1:391:A:C2	1:C1:392:G:C4	3.07	0.42
1:C1:392:G:C2	1:C1:406:U:N3	2.88	0.42
1:C1:518:A:C3'	1:C1:519:C:C5'	2.98	0.42
1:C1:521:A:C5'	1:C1:522:U:OP1	2.68	0.42
1:C1:550:A:O4'	1:C1:556:A:C2	2.73	0.42
1:C1:636:A:C2	1:C1:861:U:O2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:637:C:O2'	1:C1:638:U:H5'	2.20	0.42
1:C1:701:U:H2'	1:C1:702:G:H1'	2.00	0.42
1:C1:827:C:O2'	1:C1:828:U:O4'	2.33	0.42
1:C1:1030:A:C5	1:C1:1792:G:C6	3.07	0.42
1:C1:1035:G:C2'	1:C1:1036:A:O4'	2.67	0.42
1:C1:1050:G:H2'	1:C1:1051:G:H4'	2.02	0.42
1:C1:1196:A:C4'	1:C1:1197:C:O5'	2.67	0.42
1:C1:1348:A:N3	1:C1:1379:C:C6	2.87	0.42
1:C1:1348:A:C5	1:C1:1349:G:H5'	2.55	0.42
1:C1:1443:U:O5'	1:C1:1443:U:H6	2.03	0.42
1:C1:1474:G:C2	1:C1:1475:A:C4	3.07	0.42
1:C1:1528:U:H2'	1:C1:1529:C:C6	2.55	0.42
1:C1:1528:U:H2'	1:C1:1529:C:H6	1.84	0.42
1:C1:1550:A:C4	1:C1:1551:U:C5	3.08	0.42
1:C1:1566:U:H5"	13:CL:39:GLY:N	2.35	0.42
1:C1:1579:U:N3	1:C1:1580:C:C5	2.87	0.42
1:C1:1595:U:H6	1:C1:1596:C:C2	2.37	0.42
1:C1:1600:A:O2'	1:C1:1602:C:N4	2.51	0.42
1:C1:1622:G:H3'	1:C1:1623:C:C6	2.45	0.42
1:C1:1643:U:C2	1:C1:1644:C:C6	3.08	0.42
1:C1:1720:G:C6	1:C1:1721:A:N3	2.87	0.42
1:C1:1756:A:C8	1:C1:1756:A:P	3.13	0.42
1:C1:1780:G:C5	1:C1:1781:A:C5	3.07	0.42
2:CA:13:ASP:O	2:CA:14:ALA:CB	2.68	0.42
4:CC:10:LYS:O	4:CC:13:ALA:HB3	2.20	0.42
8:CG:42:ARG:C	8:CG:44:GLY:N	2.77	0.42
11:CJ:93:HIS:HA	11:CJ:96:TYR:O	2.19	0.42
13:CL:31:ALA:C	13:CL:33:THR:H	2.28	0.42
14:CM:132:LEU:O	14:CM:133:ASP:C	2.61	0.42
16:CO:29:PRO:O	16:CO:30:SER:CB	2.67	0.42
17:CP:123:LYS:O	17:CP:124:VAL:C	2.62	0.42
19:CR:28:VAL:O	19:CR:29:ARG:CB	2.68	0.42
21:CT:182:ASN:C	21:CT:184:ASN:N	2.77	0.42
23:Cb:23:UNK:CB	23:Cb:23:UNK:C	2.84	0.42
29:D1:22:G:N3	29:D1:23:A:C8	2.86	0.42
29:D1:30:G:C5	29:D1:31:C:C5	3.07	0.42
29:D1:166:C:C4	29:D1:167:U:C4	3.08	0.42
29:D1:197:G:H2'	29:D1:198:A:C8	2.51	0.42
29:D1:250:U:H3'	29:D1:251:G:C8	2.54	0.42
29:D1:315:C:O2	29:D1:316:U:C5	2.70	0.42
29:D1:340:C:C4	31:D3:25:G:C2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:355:A:N1	29:D1:365:A:C4	2.88	0.42
29:D1:384:A:C1'	29:D1:1465:A:C5	3.02	0.42
29:D1:405:U:C4	29:D1:406:G:C4	3.07	0.42
29:D1:424:G:O2'	29:D1:425:G:OP1	2.32	0.42
29:D1:513:G:O2'	37:DF:147:ALA:HB1	2.20	0.42
29:D1:574:U:C6	29:D1:574:U:C4'	3.02	0.42
29:D1:595:G:C6	29:D1:596:C:C5	3.07	0.42
29:D1:607:A:C2	29:D1:608:A:C1'	3.03	0.42
29:D1:740:G:N3	29:D1:740:G:H2'	2.34	0.42
29:D1:759:U:C2	29:D1:773:G:N1	2.87	0.42
29:D1:761:A:C2	29:D1:762:U:C1'	3.00	0.42
29:D1:993:G:H1	29:D1:1056:U:H3	1.66	0.42
29:D1:1024:G:N7	29:D1:1025:A:N7	2.67	0.42
29:D1:1083:G:O2'	29:D1:1084:A:O5'	2.31	0.42
29:D1:1145:G:C5	29:D1:1146:C:C6	3.08	0.42
29:D1:1150:A:H3'	29:D1:1151:U:H6	1.84	0.42
29:D1:1217:A:C6	29:D1:1218:U:C4	3.07	0.42
29:D1:1239:C:O3'	72:DL:97:ASN:O	2.36	0.42
29:D1:1265:U:O4	29:D1:1276:U:C2	2.72	0.42
29:D1:1329:U:HO2'	29:D1:1330:A:P	2.42	0.42
29:D1:1352:A:C8	29:D1:1352:A:OP2	2.72	0.42
29:D1:1370:G:OP1	54:DY:15:VAL:O	2.38	0.42
29:D1:1472:U:H2'	29:D1:1473:G:H8	1.85	0.42
29:D1:1506:A:N6	29:D1:1513:G:C6	2.87	0.42
29:D1:1558:A:H5"	29:D1:1559:A:O4'	2.18	0.42
29:D1:1595:U:C2	29:D1:1596:C:C5	3.07	0.42
29:D1:1636:U:H3	29:D1:1710:C:C1'	2.33	0.42
29:D1:1662:G:C6	29:D1:1663:C:N4	2.87	0.42
29:D1:1819:U:C4	29:D1:1820:U:O4	2.72	0.42
29:D1:2193:U:O2'	29:D1:2194:G:P	2.78	0.42
29:D1:2194:G:C6	29:D1:2195:C:N4	2.88	0.42
29:D1:2279:A:C4'	29:D1:2280:A:C5'	2.97	0.42
29:D1:2287:C:O2	29:D1:2298:U:H5"	2.19	0.42
29:D1:2582:C:OP1	74:D1:3567:OHX:N6	2.52	0.42
29:D1:2689:A:N3	29:D1:2702:A:N1	2.64	0.42
29:D1:2745:G:N2	29:D1:2748:A:OP2	2.52	0.42
29:D1:2819:A:H5"	29:D1:2866:U:C5	2.54	0.42
29:D1:2836:C:H2'	29:D1:2837:A:O4'	2.19	0.42
29:D1:2856:G:N1	29:D1:2857:C:C4	2.88	0.42
29:D1:2919:A:H2'	29:D1:2920:U:H5'	2.02	0.42
29:D1:3012:A:N3	29:D1:3013:U:C6	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3023:U:H4'	29:D1:3024:A:OP2	2.19	0.42
29:D1:3054:U:OP2	29:D1:3054:U:H6	2.03	0.42
29:D1:3159:C:H2'	29:D1:3160:U:C6	2.54	0.42
29:D1:3191:G:C4	29:D1:3202:G:C2	3.07	0.42
29:D1:3218:A:C4'	29:D1:3220:G:C8	2.98	0.42
29:D1:3244:A:O2'	29:D1:3245:A:C8	2.68	0.42
29:D1:3294:A:N1	29:D1:3295:A:C4	2.88	0.42
29:D1:3347:A:N6	29:D1:3348:G:O6	2.52	0.42
29:D1:3355:U:O2'	29:D1:3356:G:O5'	2.37	0.42
29:D1:3371:G:C6	29:D1:3372:A:C2	3.08	0.42
29:D1:3393:U:C4	29:D1:3394:U:C4	3.07	0.42
74:D1:3408:OHX:N6	74:D1:3582:OHX:N6	2.68	0.42
30:D2:30:G:C6	30:D2:31:U:C2	3.07	0.42
30:D2:63:A:N1	30:D2:65:G:C6	2.88	0.42
30:D2:74:C:C5	30:D2:75:G:C4	3.08	0.42
31:D3:35:C:H2'	31:D3:36:G:H8	1.85	0.42
35:DD:220:ARG:C	35:DD:222:VAL:N	2.76	0.42
36:DE:36:LEU:C	36:DE:38:THR:H	2.28	0.42
36:DE:199:ILE:C	36:DE:201:GLY:HA2	2.44	0.42
36:DE:257:GLU:CA	36:DE:259:LYS:N	2.76	0.42
36:DE:281:GLU:C	36:DE:283:ALA:O	2.63	0.42
40:DI:150:SER:CB	40:DI:153:ASP:CB	2.97	0.42
73:DM:11:TYR:C	73:DM:13:ALA:N	2.76	0.42
43:DN:49:PRO:O	43:DN:53:VAL:O	2.36	0.42
48:DS:140:GLU:O	48:DS:143:ILE:N	2.53	0.42
54:DY:134:ALA:O	54:DY:137:LYS:N	2.42	0.42
61:Df:80:ARG:O	61:Df:82:GLN:N	2.53	0.42
1:A1:86:A:O4'	1:A1:148:A:O2'	2.38	0.42
1:A1:102:U:O4	1:A1:360:A:C8	2.72	0.42
1:A1:149:C:H2'	1:A1:149:C:O2	2.19	0.42
1:A1:195:G:N2	1:A1:196:G:C4	2.87	0.42
1:A1:200:A:HO2'	1:A1:201:G:P	2.42	0.42
1:A1:328:A:C6	1:A1:329:G:C5	3.07	0.42
1:A1:332:U:H3'	1:A1:334:G:OP2	2.20	0.42
1:A1:433:C:N4	1:A1:434:G:C6	2.88	0.42
1:A1:492:A:C6	1:A1:494:U:H5"	2.54	0.42
1:A1:514:G:N7	1:A1:538:A:C2	2.87	0.42
1:A1:549:G:N3	1:A1:550:A:C8	2.88	0.42
1:A1:606:A:N9	1:A1:608:U:C5	2.88	0.42
1:A1:713:A:C6	1:A1:714:G:C8	3.07	0.42
1:A1:741:C:HO2'	1:A1:742:U:P	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1012:U:H2'	1:A1:1013:A:O4'	2.18	0.42
1:A1:1028:C:O2'	1:A1:1029:U:H5"	2.20	0.42
1:A1:1033:C:H6	1:A1:1033:C:O5'	2.03	0.42
1:A1:1096:C:C2'	1:A1:1100:G:OP2	2.68	0.42
1:A1:1150:G:N3	1:A1:1151:A:H1'	2.34	0.42
1:A1:1257:U:O2'	1:A1:1258:U:H5"	2.19	0.42
1:A1:1277:G:H5"	4:AC:139:SER:O	2.20	0.42
1:A1:1347:U:H5'	15:AN:10:GLU:CB	2.50	0.42
1:A1:1377:U:C3'	1:A1:1378:U:H4'	2.49	0.42
1:A1:1401:A:N7	1:A1:1402:G:N9	2.68	0.42
1:A1:1584:G:C2	11:AJ:125:GLU:N	2.80	0.42
1:A1:1793:G:C4	1:A1:1794:A:C8	3.07	0.42
2:AA:146:LEU:CA	2:AA:160:ILE:HA	2.38	0.42
3:AB:130:ILE:O	3:AB:133:LYS:CB	2.68	0.42
5:AD:132:VAL:O	5:AD:136:ALA:N	2.53	0.42
6:AE:99:LEU:O	6:AE:100:LYS:C	2.62	0.42
8:AG:139:TRP:C	8:AG:141:TYR:N	2.78	0.42
10:AI:19:GLY:C	10:AI:21:ASP:H	2.28	0.42
17:AP:43:PHE:O	17:AP:45:GLY:N	2.53	0.42
21:AT:116:ASP:O	21:AT:117:LYS:C	2.62	0.42
29:B1:39:A:H3'	29:B1:41:G:OP2	2.20	0.42
29:B1:41:G:C8	29:B1:42:C:H5	2.29	0.42
29:B1:66:A:H5"	29:B1:316:U:OP1	2.19	0.42
29:B1:88:A:C4	29:B1:89:A:H1'	2.54	0.42
29:B1:107:A:C2'	29:B1:108:A:O5'	2.68	0.42
29:B1:118:U:C6	29:B1:118:U:C3'	3.03	0.42
29:B1:223:U:HO2'	29:B1:224:C:P	2.37	0.42
29:B1:282:G:C2	29:B1:286:U:C4'	3.02	0.42
29:B1:295:A:H2'	29:B1:296:A:O4'	2.20	0.42
29:B1:307:A:C2'	29:B1:308:A:H5'	2.50	0.42
29:B1:522:A:C6	29:B1:523:A:C8	3.08	0.42
29:B1:591:G:N2	29:B1:592:A:N3	2.67	0.42
29:B1:667:C:H2'	29:B1:668:G:O5'	2.20	0.42
29:B1:888:A:N6	29:B1:889:U:H3	2.18	0.42
29:B1:895:A:C4	29:B1:897:U:C6	3.07	0.42
29:B1:901:G:N1	29:B1:902:G:C5	2.88	0.42
29:B1:1079:A:N1	29:B1:1080:A:N1	2.68	0.42
29:B1:1129:A:C6	29:B1:1130:A:N1	2.85	0.42
29:B1:1198:C:OP2	29:B1:1200:A:C8	2.73	0.42
29:B1:1316:C:H5'	29:B1:1317:A:H5"	2.01	0.42
29:B1:1351:U:H2'	29:B1:1352:A:N7	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1399:A:N1	31:B3:8:C:C1’	2.83	0.42
29:B1:1440:G:C2	29:B1:1441:G:C8	3.08	0.42
29:B1:1455:U:H2’	29:B1:1456:A:N7	2.34	0.42
29:B1:1560:G:OP2	29:B1:1560:G:C3’	2.61	0.42
29:B1:1843:C:H2’	29:B1:1844:C:H6	1.84	0.42
29:B1:1869:C:O2	29:B1:1869:C:C2’	2.65	0.42
29:B1:1922:A:O5’	29:B1:1922:A:H8	2.03	0.42
29:B1:2284:C:C2	29:B1:2308:C:C1’	3.02	0.42
29:B1:2308:C:N4	29:B1:2309:A:C6	2.88	0.42
29:B1:2357:A:C2’	29:B1:2358:A:O5’	2.68	0.42
29:B1:2376:G:N2	29:B1:2377:G:C2	2.87	0.42
29:B1:2511:A:H2’	29:B1:2511:A:N3	2.34	0.42
29:B1:2554:A:C2	33:BB:85:GLY:O	2.72	0.42
29:B1:2590:A:C2	29:B1:2591:A:C8	3.08	0.42
29:B1:2632:G:H2’	29:B1:2633:U:O4’	2.20	0.42
29:B1:2701:U:OP1	49:BT:23:GLY:HA2	2.20	0.42
29:B1:2752:U:O2	29:B1:2752:U:C2’	2.67	0.42
29:B1:2779:A:C4	29:B1:2780:A:C8	3.08	0.42
29:B1:2821:C:C6	29:B1:2821:C:C3’	3.02	0.42
29:B1:2840:C:C4	29:B1:2841:G:C5	3.08	0.42
29:B1:2883:U:O2	29:B1:2940:A:C2	2.73	0.42
29:B1:2902:A:H5”	29:B1:3032:A:O2’	2.20	0.42
29:B1:2933:A:N7	29:B1:2934:A:C5	2.88	0.42
29:B1:3017:A:O2’	29:B1:3018:C:H5’	2.20	0.42
29:B1:3197:G:C2’	29:B1:3197:G:N3	2.82	0.42
29:B1:3201:C:N1	29:B1:3202:G:C8	2.87	0.42
29:B1:3242:G:H5’	29:B1:3243:A:OP1	2.19	0.42
29:B1:3306:U:HO2’	29:B1:3309:G:H1	1.64	0.42
29:B1:3331:U:C6	29:B1:3331:U:C5’	3.02	0.42
29:B1:3378:C:O2	29:B1:3378:C:C2’	2.50	0.42
30:B2:32:U:H4’	30:B2:33:U:OP1	2.19	0.42
30:B2:60:G:C2	30:B2:61:G:N7	2.88	0.42
31:B3:69:U:C3’	31:B3:70:G:C4’	2.81	0.42
31:B3:72:A:O3’	31:B3:73:U:H4’	2.20	0.42
31:B3:75:G:O5’	31:B3:89:A:O2’	2.37	0.42
34:BC:216:ASP:CB	34:BC:278:ILE:HA	2.49	0.42
36:BE:80:SER:C	36:BE:82:GLU:N	2.77	0.42
36:BE:125:VAL:HA	36:BE:126:GLU:HA	1.62	0.42
37:BF:92:SER:O	37:BF:95:GLY:N	2.51	0.42
37:BF:121:LEU:C	37:BF:123:PRO:N	2.78	0.42
45:BP:150:GLU:O	45:BP:151:ASP:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:43:LYS:O	46:BQ:46:LYS:CB	2.68	0.42
55:BZ:88:GLY:O	55:BZ:89:VAL:CB	2.68	0.42
59:Bd:62:GLY:C	59:Bd:64:MET:N	2.77	0.42
1:C1:30:G:C4	1:C1:597:G:C6	3.08	0.42
1:C1:170:U:O2	1:C1:170:U:C2'	2.67	0.42
1:C1:185:U:C2'	1:C1:186:C:O4'	2.67	0.42
1:C1:214:G:H3'	1:C1:215:A:C5'	2.50	0.42
1:C1:283:U:C5'	1:C1:284:G:OP2	2.68	0.42
1:C1:328:A:N1	1:C1:329:G:C5	2.88	0.42
1:C1:420:A:H2'	1:C1:421:A:O5'	2.19	0.42
1:C1:440:U:H3'	1:C1:441:A:C5'	2.42	0.42
1:C1:445:A:C2	1:C1:446:A:C5	3.08	0.42
1:C1:687:G:N2	1:C1:688:G:C5	2.87	0.42
1:C1:926:A:C5	1:C1:927:C:C5	3.07	0.42
1:C1:937:C:H2'	1:C1:938:G:O4'	2.20	0.42
1:C1:1028:C:C5	1:C1:1030:A:H1'	2.55	0.42
1:C1:1066:C:N3	1:C1:1067:C:C6	2.88	0.42
1:C1:1076:A:C8	1:C1:1077:C:C6	3.08	0.42
1:C1:1101:G:H8	1:C1:1101:G:P	2.41	0.42
1:C1:1150:G:O2'	1:C1:1151:A:P	2.78	0.42
1:C1:1221:A:C2'	1:C1:1222:C:H5'	2.50	0.42
1:C1:1250:U:O2	1:C1:1251:U:C2	2.72	0.42
1:C1:1271:G:H2'	1:C1:1272:U:H6	1.76	0.42
1:C1:1271:G:C6	1:C1:1272:U:O4	2.73	0.42
1:C1:1279:C:H2'	1:C1:1280:C:O4'	2.20	0.42
1:C1:1330:G:C2'	1:C1:1331:A:H5'	2.49	0.42
1:C1:1363:U:C2'	1:C1:1364:G:C1'	2.87	0.42
1:C1:1391:A:C2	1:C1:1392:U:C5	3.08	0.42
1:C1:1424:A:C6	1:C1:1425:A:C5	3.08	0.42
1:C1:1458:G:H5"	1:C1:1459:C:C5	2.45	0.42
1:C1:1492:A:C1'	1:C1:1493:A:O5'	2.67	0.42
1:C1:1557:U:O2	1:C1:1557:U:C2'	2.67	0.42
1:C1:1607:G:N3	1:C1:1608:U:C6	2.88	0.42
1:C1:1636:C:C4'	1:C1:1637:C:OP2	2.59	0.42
1:C1:1708:U:H6	1:C1:1708:U:H3'	1.84	0.42
1:C1:1793:G:C2	1:C1:1794:A:H1'	2.55	0.42
1:C1:1793:G:C5	1:C1:1794:A:C8	3.08	0.42
2:CA:160:ILE:O	2:CA:161:PRO:C	2.62	0.42
2:CA:169:SER:O	2:CA:173:ILE:CB	2.68	0.42
8:CG:96:VAL:C	8:CG:98:VAL:N	2.76	0.42
8:CG:145:THR:CA	8:CG:146:ALA:HB2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CH:65:GLN:C	9:CH:67:VAL:N	2.77	0.42
10:CI:85:ILE:O	10:CI:86:VAL:C	2.61	0.42
10:CI:116:LEU:C	10:CI:118:GLU:N	2.74	0.42
20:CS:51:GLY:O	20:CS:52:PHE:C	2.63	0.42
28:Ch:24:UNK:CA	29:D1:3352:U:OP1	2.68	0.42
29:D1:4:U:O2	29:D1:4:U:H2'	2.19	0.42
29:D1:352:A:O4'	29:D1:354:U:C6	2.73	0.42
29:D1:363:G:H3'	29:D1:364:G:C5'	2.50	0.42
29:D1:412:G:C5	29:D1:413:U:C4	3.08	0.42
29:D1:515:C:C6	29:D1:515:C:OP2	2.73	0.42
29:D1:537:A:OP1	29:D1:538:G:H5'	2.18	0.42
29:D1:538:G:N3	29:D1:556:U:H5	2.16	0.42
29:D1:540:U:H2'	29:D1:541:U:H6	1.76	0.42
29:D1:594:U:C4	29:D1:595:G:N1	2.85	0.42
29:D1:665:A:C5	29:D1:666:A:N7	2.88	0.42
29:D1:667:C:C2'	29:D1:668:G:O5'	2.68	0.42
29:D1:865:U:C4	29:D1:866:A:C5	3.07	0.42
29:D1:1001:G:C8	29:D1:1042:U:P	3.13	0.42
29:D1:1175:C:H3'	29:D1:1175:C:P	2.59	0.42
29:D1:1203:A:C2	29:D1:2856:G:H1'	2.55	0.42
29:D1:1262:G:O6	29:D1:1264:G:N2	2.52	0.42
29:D1:1287:A:C4	29:D1:1288:U:C5	3.07	0.42
29:D1:1300:G:OP2	29:D1:1301:A:O2'	2.33	0.42
29:D1:1317:A:OP2	29:D1:1317:A:H3'	2.19	0.42
29:D1:1345:G:C6	74:D1:3480:OHX:N6	2.88	0.42
29:D1:1565:G:C6	29:D1:1566:A:H1'	2.54	0.42
29:D1:1688:U:H3'	29:D1:1689:U:H5	1.83	0.42
29:D1:1901:A:OP2	29:D1:1903:U:O4	2.38	0.42
29:D1:1921:A:N6	29:D1:1930:A:C8	2.86	0.42
29:D1:2158:A:N7	29:D1:2177:G:C2	2.87	0.42
29:D1:2161:G:N3	29:D1:2161:G:H2'	2.35	0.42
29:D1:2505:U:H2'	29:D1:2506:U:N1	2.34	0.42
29:D1:2676:A:H2	29:D1:2680:A:C5	2.36	0.42
29:D1:2746:A:C6	29:D1:2747:A:N3	2.87	0.42
29:D1:2747:A:OP1	74:D1:3462:OHX:N2	2.52	0.42
29:D1:2785:A:C6	29:D1:2786:G:C5	3.07	0.42
29:D1:2837:A:C8	29:D1:2845:A:H2	2.37	0.42
29:D1:2903:A:C6	29:D1:2904:U:C5	3.07	0.42
29:D1:2992:U:C2'	29:D1:2993:G:C5'	2.80	0.42
29:D1:3013:U:O2	29:D1:3014:U:C6	2.72	0.42
29:D1:3112:G:C2	29:D1:3121:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3196:U:H1'	29:D1:3197:G:C6	2.53	0.42
29:D1:3228:C:C2'	29:D1:3229:G:H8	2.26	0.42
30:D2:110:G:C5	30:D2:111:U:N3	2.88	0.42
31:D3:109:A:H2'	31:D3:110:C:O4'	2.19	0.42
34:DC:83:PRO:CB	34:DC:204:ALA:CB	2.97	0.42
34:DC:342:LEU:O	34:DC:343:TYR:CB	2.68	0.42
35:DD:70:ALA:O	35:DD:71:VAL:O	2.37	0.42
36:DE:53:VAL:HA	36:DE:62:CYS:HA	2.00	0.42
36:DE:111:GLN:C	36:DE:115:LEU:H	2.27	0.42
36:DE:114:GLY:H	36:DE:117:GLU:H	1.68	0.42
37:DF:143:LYS:O	37:DF:144:ALA:O	2.37	0.42
40:DI:104:VAL:CB	40:DI:105:GLU:CB	2.98	0.42
43:DN:11:ASN:CB	43:DN:64:VAL:HA	2.50	0.42
48:DS:84:THR:O	48:DS:85:ARG:C	2.62	0.42
54:DY:29:PRO:O	54:DY:31:GLY:N	2.52	0.42
54:DY:135:GLU:C	54:DY:137:LYS:H	2.28	0.42
57:Db:60:ASN:O	57:Db:61:LYS:C	2.62	0.42
61:Df:4:VAL:O	61:Df:5:PRO:CB	2.66	0.42
1:A1:142:G:C4	1:A1:266:A:N6	2.87	0.42
1:A1:148:A:C5'	1:A1:149:C:OP2	2.64	0.42
1:A1:248:U:C1'	1:A1:249:U:OP1	2.68	0.42
1:A1:389:G:C5	1:A1:390:G:C6	3.07	0.42
1:A1:390:G:H22	1:A1:407:A:N6	2.10	0.42
1:A1:518:A:C2'	1:A1:519:C:C5'	2.92	0.42
1:A1:774:A:C2	1:A1:775:G:C1'	3.02	0.42
1:A1:806:A:C4	1:A1:807:A:N7	2.88	0.42
1:A1:934:C:O2'	1:A1:935:U:H5'	2.20	0.42
1:A1:1075:C:N4	1:A1:1076:A:N1	2.67	0.42
1:A1:1150:G:C2'	1:A1:1151:A:O5'	2.68	0.42
1:A1:1159:C:H5'	1:A1:1159:C:H6	1.84	0.42
1:A1:1179:G:C6	1:A1:1180:C:N3	2.88	0.42
1:A1:1239:U:H2'	1:A1:1240:U:OP2	2.20	0.42
1:A1:1241:G:N3	1:A1:1243:G:C8	2.87	0.42
1:A1:1253:U:H2'	1:A1:1254:U:O2	2.19	0.42
1:A1:1297:G:C2	1:A1:1301:U:N3	2.87	0.42
1:A1:1347:U:O3'	1:A1:1348:A:N7	2.52	0.42
1:A1:1365:C:N4	1:A1:1366:U:C5	2.88	0.42
1:A1:1390:U:C2'	1:A1:1391:A:OP2	2.67	0.42
1:A1:1400:A:C2	1:A1:1401:A:C4	3.08	0.42
1:A1:1512:G:C6	1:A1:1513:G:C5	3.08	0.42
1:A1:1541:G:H2'	1:A1:1542:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1545:A:OP1	13:AL:132:ARG:CA	2.68	0.42
1:A1:1606:C:H2'	1:A1:1607:G:H8	1.85	0.42
1:A1:1645:G:H3'	1:A1:1645:G:C8	2.55	0.42
1:A1:1667:A:C4	1:A1:1668:G:N7	2.87	0.42
1:A1:1753:A:N3	1:A1:1753:A:C2'	2.83	0.42
1:A1:1779:U:O2'	1:A1:1780:G:O5'	2.31	0.42
2:AA:91:ALA:C	2:AA:93:THR:N	2.78	0.42
3:AB:128:GLY:O	3:AB:129:ILE:C	2.61	0.42
12:AK:19:ARG:O	12:AK:21:TYR:N	2.53	0.42
13:AL:27:LYS:HA	13:AL:57:ARG:CA	2.48	0.42
13:AL:53:ASP:O	13:AL:54:LEU:C	2.62	0.42
29:B1:35:A:O2'	29:B1:810:A:H1'	2.20	0.42
29:B1:117:U:C6	29:B1:117:U:H3'	2.55	0.42
29:B1:233:C:H2'	29:B1:234:G:O4'	2.20	0.42
29:B1:264:G:N1	29:B1:265:A:C5	2.88	0.42
29:B1:301:G:C5	29:B1:302:U:C5	3.07	0.42
29:B1:347:G:C2	29:B1:353:G:N7	2.88	0.42
29:B1:388:G:O2'	46:BQ:17:ALA:HB1	2.19	0.42
29:B1:541:U:C6	29:B1:541:U:OP2	2.72	0.42
29:B1:754:G:H1	29:B1:778:U:H3	1.64	0.42
29:B1:818:C:H2'	29:B1:819:U:C5'	2.47	0.42
29:B1:910:G:C5	29:B1:911:C:C4	3.07	0.42
29:B1:955:U:O2'	29:B1:2727:A:N6	2.53	0.42
29:B1:1145:G:O3'	57:Bb:46:PHE:HA	2.20	0.42
29:B1:1313:G:C2	29:B1:1314:C:N1	2.88	0.42
29:B1:1393:A:H2	29:B1:1394:A:C4	2.35	0.42
29:B1:1394:A:N7	29:B1:1395:G:C5	2.88	0.42
29:B1:1504:A:C3'	29:B1:1505:C:C5'	2.92	0.42
29:B1:1541:G:C4'	29:B1:1542:G:OP2	2.68	0.42
29:B1:1644:C:N4	29:B1:1805:C:OP1	2.53	0.42
29:B1:1658:G:C2	29:B1:1796:G:O6	2.73	0.42
29:B1:1830:G:N3	29:B1:1831:U:C6	2.88	0.42
29:B1:2137:U:O2	29:B1:2137:U:C2'	2.58	0.42
29:B1:2179:C:O2	33:BB:129:ALA:O	2.38	0.42
29:B1:2213:A:N6	29:B1:2232:A:C4	2.88	0.42
29:B1:2353:G:N3	29:B1:2354:C:H6	2.17	0.42
29:B1:2408:U:O2'	29:B1:2409:G:H5'	2.19	0.42
29:B1:2602:G:C2'	29:B1:2603:G:O5'	2.68	0.42
29:B1:2680:A:H3'	29:B1:2680:A:H8	1.85	0.42
29:B1:2720:G:C4	29:B1:2721:A:C8	3.08	0.42
29:B1:2850:G:OP1	29:B1:2850:G:C4'	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2879:C:C4	29:B1:2880:U:C4	3.06	0.42
29:B1:3244:A:N9	29:B1:3245:A:H8	2.17	0.42
30:B2:14:U:O2'	30:B2:15:C:O5'	2.37	0.42
30:B2:30:G:C6	30:B2:49:G:C6	3.07	0.42
30:B2:63:A:C6	30:B2:65:G:O6	2.73	0.42
31:B3:50:C:N4	31:B3:79:A:H61	2.17	0.42
31:B3:76:C:C4	53:BX:75:ARG:CB	3.03	0.42
31:B3:99:C:C5'	31:B3:100:U:OP1	2.68	0.42
32:BA:101:LYS:O	32:BA:104:SER:N	2.52	0.42
34:BC:145:GLU:HA	34:BC:149:ALA:H	1.85	0.42
36:BE:111:GLN:O	36:BE:115:LEU:CB	2.68	0.42
36:BE:141:PRO:CA	36:BE:143:LYS:H	2.32	0.42
39:BH:241:LYS:O	39:BH:242:ALA:C	2.61	0.42
40:BI:27:VAL:O	40:BI:33:THR:HA	2.20	0.42
42:BK:84:LEU:C	42:BK:89:TYR:H	2.25	0.42
42:BK:133:ARG:H	42:BK:155:THR:HA	1.84	0.42
42:BK:156:LYS:C	42:BK:158:ASP:N	2.75	0.42
45:BP:194:LEU:O	45:BP:196:ALA:N	2.53	0.42
48:BS:12:ALA:O	48:BS:13:SER:C	2.62	0.42
57:Bb:6:HIS:O	57:Bb:7:PRO:O	2.37	0.42
62:Bg:75:ALA:C	62:Bg:77:ALA:H	2.28	0.42
65:Bk:11:UNK:HA	65:Bk:14:UNK:CB	2.49	0.42
71:Br:15:UNK:O	71:Br:18:UNK:N	2.53	0.42
1:C1:28:A:C2	1:C1:29:U:C2	3.08	0.42
1:C1:93:A:C6	1:C1:398:G:C5	3.08	0.42
1:C1:95:G:N3	1:C1:95:G:H2'	2.34	0.42
1:C1:225:A:HO2'	1:C1:226:A:H8	1.66	0.42
1:C1:270:C:H2'	1:C1:270:C:O2	2.19	0.42
1:C1:322:G:C5	1:C1:337:G:N2	2.88	0.42
1:C1:357:G:C2'	1:C1:358:U:H6	2.19	0.42
1:C1:359:A:OP1	1:C1:359:A:N3	2.52	0.42
1:C1:386:G:O2'	1:C1:387:A:P	2.77	0.42
1:C1:469:C:H2'	1:C1:470:A:C6	2.54	0.42
1:C1:545:A:H2	1:C1:546:U:C2	2.38	0.42
1:C1:572:C:C4	1:C1:573:C:C5	3.08	0.42
1:C1:599:A:C5	1:C1:600:U:C4	3.08	0.42
1:C1:714:G:C2	1:C1:715:U:N3	2.88	0.42
1:C1:813:U:O2'	1:C1:814:A:P	2.78	0.42
1:C1:948:G:C6	1:C1:949:C:N4	2.88	0.42
1:C1:1057:U:H1'	1:C1:1062:A:H61	1.85	0.42
1:C1:1073:G:N1	1:C1:1074:G:N1	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1086:A:N7	1:C1:1087:A:C5	2.88	0.42
1:C1:1102:G:H2'	1:C1:1103:U:O4'	2.19	0.42
1:C1:1150:G:N3	1:C1:1151:A:H1'	2.34	0.42
1:C1:1384:A:C4	1:C1:1385:G:C8	3.07	0.42
1:C1:1467:C:C5'	1:C1:1602:C:OP1	2.58	0.42
1:C1:1508:U:C4	74:C1:1903:OHX:N1	2.88	0.42
1:C1:1527:C:C2	1:C1:1528:U:C5	3.07	0.42
1:C1:1558:U:H5	1:C1:1559:A:H2'	1.79	0.42
1:C1:1579:U:O4	1:C1:1580:C:N4	2.53	0.42
1:C1:1583:A:H2	1:C1:1585:U:O4	2.01	0.42
74:C1:1924:OHX:N6	74:C1:1964:OHX:N6	2.67	0.42
3:CB:83:ILE:HA	3:CB:100:ALA:HB2	2.00	0.42
4:CC:164:VAL:C	4:CC:166:ASP:H	2.28	0.42
6:CE:98:ALA:O	6:CE:99:LEU:O	2.38	0.42
6:CE:181:ALA:C	6:CE:183:ALA:H	2.27	0.42
11:CJ:42:GLU:O	11:CJ:43:ILE:C	2.63	0.42
23:Cb:54:UNK:O	23:Cb:56:UNK:N	2.52	0.42
24:Cc:78:UNK:C	24:Cc:80:UNK:H	2.33	0.42
29:D1:66:A:C6	29:D1:68:C:C2	3.08	0.42
29:D1:104:G:O5'	29:D1:104:G:H8	2.02	0.42
29:D1:198:A:C1'	29:D1:218:G:N3	2.78	0.42
29:D1:204:A:H5'	29:D1:205:C:OP2	2.20	0.42
29:D1:222:A:C4	29:D1:223:U:C5	3.08	0.42
29:D1:253:A:C6	29:D1:254:A:C5	3.08	0.42
29:D1:347:G:C6	29:D1:348:A:N6	2.88	0.42
29:D1:419:G:N7	74:D3:201:OHX:N5	2.68	0.42
29:D1:500:C:H2'	29:D1:501:A:O4'	2.20	0.42
29:D1:523:A:C2	29:D1:524:U:O4'	2.73	0.42
29:D1:595:G:C8	29:D1:595:G:C3'	3.02	0.42
29:D1:701:G:O2'	29:D1:702:C:H5'	2.20	0.42
29:D1:760:G:N2	29:D1:761:A:N7	2.50	0.42
29:D1:857:G:O2'	29:D1:858:A:P	2.78	0.42
29:D1:900:G:N2	29:D1:1589:A:C5	2.88	0.42
29:D1:916:G:C5	29:D1:924:G:C4	3.08	0.42
29:D1:917:A:C4	29:D1:918:C:C5	3.07	0.42
29:D1:955:U:C4	29:D1:956:U:O4	2.73	0.42
29:D1:1031:C:N4	29:D1:1032:C:C4	2.87	0.42
29:D1:1064:A:O2'	29:D1:1065:A:O5'	2.38	0.42
29:D1:1263:A:H4'	29:D1:1264:G:O5'	2.18	0.42
29:D1:1302:A:C2'	29:D1:1303:A:O5'	2.68	0.42
29:D1:1332:A:H2'	29:D1:1333:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1383:G:N7	74:D1:3455:OHX:N6	2.67	0.42
29:D1:1394:A:C2'	29:D1:1395:G:C5'	2.97	0.42
29:D1:1404:G:N2	29:D1:1407:A:C8	2.88	0.42
29:D1:1455:U:H2'	29:D1:1456:A:N7	2.34	0.42
29:D1:1553:U:OP1	29:D1:1554:U:H5	2.03	0.42
29:D1:1580:A:H5'	29:D1:1581:C:OP2	2.19	0.42
29:D1:1624:G:O6	74:D1:3559:OHX:N3	2.53	0.42
29:D1:1689:U:C2	29:D1:1690:C:C6	3.08	0.42
29:D1:1703:U:O2	29:D1:1703:U:C2'	2.67	0.42
29:D1:1708:C:OP2	29:D1:1708:C:H6	2.01	0.42
29:D1:1740:U:C3'	29:D1:1741:A:C5'	2.95	0.42
29:D1:1838:G:H3'	74:D1:3588:OHX:N6	2.35	0.42
29:D1:1880:U:H2'	29:D1:1881:A:O5'	2.20	0.42
29:D1:2188:A:C2	62:Dg:19:GLY:CA	3.03	0.42
29:D1:2194:G:O2'	29:D1:2195:C:H5'	2.20	0.42
29:D1:2223:A:HO2'	29:D1:2224:A:H8	0.64	0.42
29:D1:2249:G:C8	74:D1:3464:OHX:N3	2.87	0.42
29:D1:2251:G:HO2'	29:D1:2252:A:H5"	1.81	0.42
29:D1:2288:G:C2	29:D1:2289:U:C5	3.07	0.42
29:D1:2313:A:O4'	29:D1:2315:G:C8	2.73	0.42
29:D1:2325:G:C5	29:D1:2326:A:N7	2.88	0.42
29:D1:2386:A:N7	29:D1:2387:A:C8	2.87	0.42
29:D1:2654:C:H5'	29:D1:2657:A:N1	2.34	0.42
29:D1:2830:G:H5'	29:D1:2830:G:H8	1.84	0.42
29:D1:2868:U:C6	29:D1:2869:U:H5	2.38	0.42
29:D1:3087:A:H2'	29:D1:3088:G:H8	1.80	0.42
29:D1:3099:C:C2'	29:D1:3100:U:C6	3.03	0.42
29:D1:3166:C:H2'	29:D1:3167:A:C8	2.54	0.42
29:D1:3191:G:N7	29:D1:3192:U:C4	2.87	0.42
29:D1:3364:C:C2	29:D1:3365:U:C5	3.08	0.42
29:D1:3367:C:H2'	29:D1:3368:U:C6	2.54	0.42
30:D2:22:A:N6	30:D2:23:A:N6	2.67	0.42
30:D2:37:G:C2	30:D2:45:A:N1	2.88	0.42
30:D2:43:U:O2	30:D2:43:U:C2'	2.67	0.42
31:D3:4:C:N4	31:D3:5:U:N3	2.67	0.42
31:D3:19:C:N1	31:D3:20:U:C5	2.88	0.42
31:D3:116:G:H2'	31:D3:117:C:O5'	2.20	0.42
31:D3:152:G:N2	31:D3:153:U:H1'	2.35	0.42
34:DC:39:LYS:O	34:DC:40:PRO:C	2.63	0.42
34:DC:120:LYS:O	34:DC:121:ASN:C	2.62	0.42
34:DC:202:THR:O	34:DC:204:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:289:ASP:H	34:DC:291:GLU:H	1.68	0.42
37:DF:13:GLU:HA	37:DF:113:LYS:CB	2.49	0.42
37:DF:165:LEU:C	37:DF:167:ASN:N	2.73	0.42
39:DH:103:ALA:C	39:DH:105:LYS:N	2.75	0.42
41:DJ:27:PRO:O	41:DJ:28:ASP:O	2.38	0.42
42:DK:55:ARG:O	42:DK:56:THR:C	2.62	0.42
73:DM:14:LYS:HA	73:DM:17:GLU:CB	2.50	0.42
48:DS:143:ILE:O	48:DS:144:GLN:C	2.63	0.42
48:DS:147:ALA:O	48:DS:148:ASP:C	2.62	0.42
51:DV:4:GLU:HA	51:DV:13:ILE:C	2.45	0.42
56:Da:37:LYS:O	56:Da:40:ALA:HB3	2.20	0.42
60:De:38:ASN:O	60:De:40:LYS:N	2.47	0.42
62:Dg:47:VAL:O	62:Dg:48:LYS:CB	2.67	0.42
63:Dh:16:UNK:O	63:Dh:17:UNK:C	2.67	0.42
65:Dk:11:UNK:O	65:Dk:12:UNK:C	2.68	0.42
1:A1:12:U:C1’	1:A1:1300:A:H1’	2.44	0.42
1:A1:209:U:C4	1:A1:210:A:N7	2.88	0.42
1:A1:515:A:N6	1:A1:537:G:N1	2.54	0.42
1:A1:590:C:C2	1:A1:591:A:C8	3.07	0.42
1:A1:747:C:C4	1:A1:748:U:C4	3.07	0.42
1:A1:817:A:C2	1:A1:855:A:C2	3.00	0.42
1:A1:840:U:O2’	1:A1:841:U:H5”	2.20	0.42
1:A1:929:A:C5	1:A1:930:A:C5	3.07	0.42
1:A1:934:C:O2	1:A1:934:C:C2’	2.63	0.42
1:A1:1176:G:N3	1:A1:1464:G:C2	2.88	0.42
1:A1:1195:C:H5”	1:A1:1197:C:C6	2.55	0.42
1:A1:1334:U:O2	1:A1:1334:U:C2’	2.67	0.42
1:A1:1381:U:H3’	1:A1:1381:U:H6	1.85	0.42
1:A1:1486:G:H2’	1:A1:1487:A:O4’	2.19	0.42
1:A1:1512:G:H2’	1:A1:1513:G:O4’	2.20	0.42
1:A1:1645:G:C6	1:A1:1757:G:C6	3.07	0.42
1:A1:1691:A:N6	1:A1:1713:G:C4	2.88	0.42
1:A1:1708:U:H3’	1:A1:1708:U:H6	1.84	0.42
1:A1:1780:G:C8	29:B1:2263:C:OP1	2.72	0.42
8:AG:112:LYS:O	8:AG:114:ARG:N	2.53	0.42
10:AI:27:GLU:O	10:AI:29:SER:N	2.53	0.42
11:AJ:127:LYS:HA	11:AJ:134:ALA:N	2.33	0.42
13:AL:43:SER:O	13:AL:47:CYS:CB	2.67	0.42
16:AO:29:PRO:O	16:AO:57:ARG:O	2.37	0.42
20:AS:42:CYS:C	20:AS:44:ARG:N	2.74	0.42
21:AT:51:ASP:C	21:AT:53:LYS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:116:ASP:C	21:AT:118:LYS:N	2.76	0.42
25:Ad:107:UNK:HA	25:Ad:110:UNK:CB	2.49	0.42
29:B1:5:G:C2	31:B3:155:A:N3	2.88	0.42
29:B1:60:A:N7	29:B1:61:A:N7	2.68	0.42
29:B1:178:U:C2	29:B1:241:G:O6	2.72	0.42
29:B1:209:A:H4'	29:B1:211:A:N7	2.35	0.42
29:B1:383:G:N2	29:B1:387:A:C5	2.88	0.42
29:B1:404:G:O2'	29:B1:1417:G:OP1	2.35	0.42
29:B1:408:A:C2	29:B1:409:A:N3	2.88	0.42
29:B1:527:A:H3'	29:B1:528:U:H6	1.84	0.42
29:B1:550:A:OP2	29:B1:550:A:H3'	2.20	0.42
29:B1:559:A:N9	29:B1:560:G:N7	2.68	0.42
29:B1:660:A:C6	29:B1:1435:A:C2	3.07	0.42
29:B1:749:C:O2	29:B1:749:C:C2'	2.66	0.42
29:B1:800:G:C8	29:B1:933:A:N7	2.88	0.42
29:B1:837:A:H4'	29:B1:837:A:OP1	2.20	0.42
29:B1:865:U:C5	29:B1:866:A:C5	3.08	0.42
29:B1:941:G:H1'	29:B1:1435:A:N3	2.34	0.42
29:B1:969:C:O2	29:B1:969:C:C2'	2.57	0.42
29:B1:1100:U:C4	29:B1:1101:G:N7	2.88	0.42
29:B1:1168:U:C2'	29:B1:1169:A:H5"	2.50	0.42
29:B1:1287:A:C6	29:B1:1288:U:O4	2.73	0.42
29:B1:1303:A:C8	29:B1:1304:A:C2	3.08	0.42
29:B1:1393:A:C3'	29:B1:1394:A:C5'	2.97	0.42
29:B1:1610:G:O2'	29:B1:1611:G:H5'	2.19	0.42
29:B1:1633:C:N4	29:B1:1634:G:C5	2.87	0.42
29:B1:1687:U:C2'	29:B1:1688:U:O2'	2.67	0.42
29:B1:1768:U:N3	29:B1:1769:G:C8	2.88	0.42
29:B1:2136:C:O2	29:B1:2136:C:C2'	2.63	0.42
29:B1:2175:U:C3'	29:B1:2176:U:H5'	2.50	0.42
29:B1:2280:A:H8	29:B1:2280:A:H3'	1.85	0.42
29:B1:2288:G:C6	29:B1:2289:U:C4	3.08	0.42
29:B1:2511:A:C2	29:B1:2512:C:O4'	2.73	0.42
29:B1:2521:U:H2'	29:B1:2522:G:O5'	2.19	0.42
29:B1:2672:G:C4'	42:BK:104:PHE:O	2.63	0.42
29:B1:2680:A:N6	42:BK:56:THR:C	2.70	0.42
29:B1:2728:G:N1	29:B1:2729:U:C5	2.88	0.42
29:B1:2732:G:H2'	29:B1:2733:A:H8	1.85	0.42
29:B1:2834:G:C2	29:B1:2835:U:C6	3.07	0.42
29:B1:2880:U:C4	29:B1:2881:C:N4	2.88	0.42
29:B1:2888:U:H6	29:B1:2888:U:H2'	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2950:G:N2	29:B1:2979:U:C6	2.88	0.42
29:B1:2972:G:C2'	29:B1:2973:G:O5'	2.67	0.42
29:B1:3039:C:H2'	29:B1:3040:A:C8	2.55	0.42
29:B1:3087:A:C2'	29:B1:3088:G:H8	2.33	0.42
29:B1:3102:G:C5'	29:B1:3102:G:C8	2.98	0.42
29:B1:3210:A:C4	29:B1:3211:C:C5	3.08	0.42
29:B1:3214:U:C2	29:B1:3217:C:OP1	2.72	0.42
29:B1:3264:G:N2	29:B1:3265:C:H1'	2.35	0.42
29:B1:3327:G:N3	29:B1:3327:G:H2'	2.33	0.42
29:B1:3347:A:N6	29:B1:3348:G:O6	2.52	0.42
29:B1:3377:G:C5'	74:B1:3450:OHX:N2	2.83	0.42
30:B2:33:U:O2'	30:B2:34:C:O4'	2.38	0.42
30:B2:76:A:C4	30:B2:78:U:C4	3.08	0.42
31:B3:17:A:C5	31:B3:18:U:C4	3.08	0.42
31:B3:35:C:C6	31:B3:36:G:N7	2.88	0.42
31:B3:151:C:H6	31:B3:151:C:P	2.43	0.42
34:BC:60:LEU:C	34:BC:62:ARG:N	2.75	0.42
34:BC:72:VAL:HA	50:BU:88:ARG:O	2.20	0.42
35:BD:253:ALA:O	35:BD:257:LYS:CB	2.68	0.42
36:BE:98:ALA:O	36:BE:162:ALA:HA	2.19	0.42
36:BE:199:ILE:C	36:BE:201:GLY:HA2	2.45	0.42
42:BK:74:PRO:C	42:BK:76:ALA:N	2.73	0.42
43:BN:76:ALA:C	43:BN:78:THR:N	2.78	0.42
49:BT:11:THR:O	49:BT:12:ARG:C	2.63	0.42
55:BZ:60:ALA:C	55:BZ:62:LEU:N	2.75	0.42
59:Bd:5:THR:O	59:Bd:6:PRO:C	2.61	0.42
59:Bd:18:LEU:HA	59:Bd:25:ARG:HA	2.02	0.42
61:Bf:11:TYR:O	61:Bf:20:HIS:HA	2.20	0.42
1:C1:114:C:H4'	1:C1:115:G:O5'	2.20	0.42
1:C1:220:A:N6	1:C1:221:A:N6	2.68	0.42
1:C1:385:A:O2'	1:C1:386:G:C5'	2.67	0.42
1:C1:484:C:C5	1:C1:485:A:C8	3.08	0.42
1:C1:498:G:H1'	1:C1:499:U:C5	2.44	0.42
1:C1:586:G:H2'	1:C1:587:C:O5'	2.19	0.42
1:C1:643:G:C2	1:C1:692:C:C4	3.07	0.42
1:C1:733:A:N1	1:C1:734:A:C6	2.88	0.42
1:C1:734:A:C5	1:C1:735:C:C4	3.08	0.42
1:C1:804:A:O5'	1:C1:804:A:H8	2.03	0.42
1:C1:945:U:C2	1:C1:946:U:C5	3.08	0.42
1:C1:958:U:H2'	1:C1:960:U:OP1	2.20	0.42
1:C1:1008:G:C2	1:C1:1009:U:C2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1138:A:C2	1:C1:1139:A:C4	3.08	0.42
1:C1:1166:A:N6	1:C1:1167:G:C8	2.87	0.42
1:C1:1244:A:C2	1:C1:1245:G:C1'	2.86	0.42
1:C1:1245:G:C4	1:C1:1246:C:C6	3.08	0.42
1:C1:1388:A:C5	1:C1:1412:G:C6	3.07	0.42
1:C1:1433:G:O2'	1:C1:1434:U:H6	2.03	0.42
1:C1:1513:G:H1'	1:C1:1518:C:O2	2.19	0.42
1:C1:1528:U:O2'	1:C1:1529:C:H5'	2.20	0.42
1:C1:1532:U:O2'	1:C1:1533:C:O5'	2.34	0.42
1:C1:1659:A:C2	1:C1:1660:A:C8	3.07	0.42
1:C1:1671:A:H1'	1:C1:1731:A:N1	2.35	0.42
1:C1:1728:A:C6	1:C1:1729:C:C4	3.08	0.42
3:CB:40:LYS:C	3:CB:42:GLY:N	2.77	0.42
4:CC:98:ALA:C	4:CC:100:ALA:H	2.27	0.42
5:CD:223:SER:O	5:CD:225:ARG:N	2.45	0.42
8:CG:61:THR:O	8:CG:62:GLN:C	2.63	0.42
10:CI:32:ASP:C	10:CI:34:VAL:N	2.77	0.42
10:CI:80:MET:O	10:CI:82:ASN:N	2.52	0.42
12:CK:11:ARG:O	12:CK:15:ALA:N	2.51	0.42
19:CR:8:THR:HA	19:CR:51:ASN:N	2.34	0.42
21:CT:268:GLN:O	21:CT:270:LEU:N	2.52	0.42
25:Cd:93:UNK:C	25:Cd:95:UNK:N	2.80	0.42
25:Cd:104:UNK:O	25:Cd:105:UNK:C	2.67	0.42
29:D1:63:A:C2	29:D1:64:G:C4	3.08	0.42
29:D1:187:A:N9	29:D1:211:A:C6	2.88	0.42
29:D1:191:U:C2	29:D1:192:C:C5	3.08	0.42
29:D1:263:C:C2	29:D1:264:G:N7	2.88	0.42
29:D1:337:G:H21	35:DD:50:TYR:CB	2.33	0.42
29:D1:342:A:C6	29:D1:349:A:C8	3.08	0.42
29:D1:361:A:N1	29:D1:927:C:O2'	2.44	0.42
29:D1:436:A:N1	29:D1:624:G:C2	2.87	0.42
29:D1:541:U:H2'	29:D1:542:G:O4'	2.20	0.42
29:D1:564:G:OP1	29:D1:564:G:H4'	2.19	0.42
29:D1:589:A:C5'	29:D1:611:A:H2	2.33	0.42
29:D1:733:G:N2	29:D1:736:A:C2	2.88	0.42
29:D1:790:U:H2'	29:D1:791:A:O5'	2.20	0.42
29:D1:812:G:N1	29:D1:813:G:C5	2.88	0.42
29:D1:823:C:N3	29:D1:824:C:C5	2.88	0.42
29:D1:826:G:C4	29:D1:900:G:C6	3.08	0.42
29:D1:860:G:O2'	29:D1:895:A:H5"	2.20	0.42
29:D1:952:A:H8	29:D1:952:A:H3'	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:986:U:H2'	29:D1:986:U:O2	2.18	0.42
29:D1:1223:A:OP2	73:DM:57:THR:O	2.38	0.42
29:D1:1248:C:C6	29:D1:1248:C:C3'	3.03	0.42
29:D1:1289:G:N2	29:D1:1290:A:C4	2.88	0.42
29:D1:1339:C:H1'	57:Db:56:GLY:HA2	2.01	0.42
29:D1:1456:A:H4'	29:D1:1457:U:O5'	2.19	0.42
29:D1:1505:C:O2'	29:D1:1506:A:H5'	2.20	0.42
29:D1:1596:C:C2	29:D1:1597:C:C5	3.08	0.42
29:D1:1627:U:C4'	29:D1:1628:C:OP2	2.68	0.42
29:D1:1651:U:HO2'	29:D1:1652:G:H5'	1.82	0.42
29:D1:1692:U:H2'	29:D1:1693:C:C6	2.55	0.42
29:D1:1751:G:C6	29:D1:1752:A:C5	3.08	0.42
29:D1:1906:G:H21	29:D1:1909:A:H61	1.67	0.42
29:D1:1914:G:C6	29:D1:1915:A:C6	3.08	0.42
29:D1:1943:C:C4'	29:D1:3344:A:H5'	2.50	0.42
29:D1:1951:C:C5	29:D1:1952:G:N7	2.88	0.42
29:D1:2299:A:H5'	29:D1:2299:A:C8	2.44	0.42
29:D1:2316:G:C2	29:D1:2317:A:C8	3.08	0.42
29:D1:2369:G:C5	29:D1:2370:G:C6	3.08	0.42
29:D1:2369:G:C2	29:D1:2379:U:N3	2.88	0.42
29:D1:2511:A:H2'	29:D1:2511:A:N3	2.34	0.42
29:D1:2511:A:C2	29:D1:2512:C:O4'	2.73	0.42
29:D1:2616:C:H2'	29:D1:2617:U:C5'	2.34	0.42
29:D1:2711:C:N3	29:D1:2712:U:C5	2.88	0.42
29:D1:2831:G:C2	29:D1:2832:C:C2	3.07	0.42
29:D1:3083:G:C2'	29:D1:3084:C:O5'	2.67	0.42
29:D1:3106:A:H2'	29:D1:3107:U:O5'	2.20	0.42
29:D1:3126:C:N3	29:D1:3127:A:C8	2.88	0.42
29:D1:3141:A:N3	29:D1:3144:G:OP1	2.53	0.42
29:D1:3214:U:C2	29:D1:3217:C:OP1	2.72	0.42
29:D1:3294:A:C5	29:D1:3295:A:C8	3.08	0.42
29:D1:3320:A:C2'	29:D1:3321:C:O4'	2.67	0.42
29:D1:3324:C:O2'	29:D1:3325:G:C5'	2.60	0.42
29:D1:3378:C:O3'	34:DC:313:HIS:CA	2.62	0.42
29:D1:3390:G:C4	29:D1:3391:A:N9	2.88	0.42
30:D2:22:A:C5	30:D2:23:A:C5	3.08	0.42
31:D3:8:C:C2	31:D3:9:A:C8	3.08	0.42
31:D3:24:G:C2	31:D3:25:G:C4	3.08	0.42
31:D3:26:U:H2'	31:D3:27:U:C6	2.55	0.42
31:D3:69:U:H3'	31:D3:70:G:C4'	2.47	0.42
33:DB:133:TYR:O	33:DB:134:VAL:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:89:VAL:HA	34:DC:160:VAL:HA	2.01	0.42
34:DC:114:VAL:N	34:DC:115:LYS:CB	2.83	0.42
35:DD:63:GLU:O	35:DD:76:ARG:N	2.53	0.42
35:DD:171:ALA:C	35:DD:173:GLY:N	2.78	0.42
39:DH:190:VAL:O	39:DH:191:ASN:C	2.63	0.42
40:DI:21:LYS:C	40:DI:22:SER:O	2.59	0.42
73:DM:39:HIS:O	73:DM:43:LYS:CB	2.67	0.42
43:DN:93:LYS:O	43:DN:94:TRP:C	2.62	0.42
47:DR:38:ARG:O	47:DR:39:ARG:O	2.37	0.42
47:DR:123:THR:C	47:DR:125:ASP:H	2.28	0.42
56:Da:38:LYS:C	56:Da:40:ALA:N	2.77	0.42
57:Db:79:VAL:O	57:Db:82:LEU:N	2.53	0.42
63:Dh:8:UNK:O	63:Dh:9:UNK:C	2.66	0.42
1:A1:13:C:O2'	1:A1:1298:U:N3	2.51	0.42
1:A1:43:A:C3'	1:A1:44:U:H5"	2.50	0.42
1:A1:55:A:C5	1:A1:403:G:C2	3.08	0.42
1:A1:129:U:C6	1:A1:264:G:O6	2.72	0.42
1:A1:151:G:C2	1:A1:163:G:N2	2.85	0.42
1:A1:174:U:N3	1:A1:175:G:N3	2.67	0.42
1:A1:186:C:N4	1:A1:199:G:N1	2.27	0.42
1:A1:234:G:H3'	1:A1:234:G:N3	2.35	0.42
1:A1:263:C:H5"	1:A1:264:G:P	2.60	0.42
1:A1:288:A:HO2'	1:A1:289:U:P	2.43	0.42
1:A1:355:G:C2	1:A1:356:G:N9	2.88	0.42
1:A1:363:G:C2	1:A1:382:C:N3	2.88	0.42
1:A1:445:A:C2	1:A1:446:A:N7	2.88	0.42
1:A1:519:C:C2	1:A1:520:A:C8	3.08	0.42
1:A1:592:A:H2'	1:A1:593:U:O5'	2.20	0.42
1:A1:607:G:H4'	1:A1:608:U:H5'	2.02	0.42
1:A1:649:U:C6	1:A1:650:U:C5	3.08	0.42
1:A1:752:A:C6	1:A1:753:A:C6	3.08	0.42
1:A1:760:A:C2	1:A1:791:A:N3	2.88	0.42
1:A1:814:A:H2'	1:A1:816:G:N2	2.34	0.42
1:A1:841:U:C5	1:A1:842:C:C5	3.07	0.42
1:A1:1097:U:C2'	1:A1:1097:U:O2	2.67	0.42
1:A1:1149:G:N2	1:A1:1151:A:C6	2.88	0.42
1:A1:1245:G:N7	1:A1:1246:C:C5	2.88	0.42
1:A1:1498:G:N2	1:A1:1499:G:C8	2.88	0.42
1:A1:1592:A:C5	1:A1:1605:G:N2	2.88	0.42
1:A1:1742:U:C2	1:A1:1743:U:C6	3.07	0.42
6:AE:42:ILE:O	6:AE:45:ILE:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:64:GLU:O	13:AL:65:GLU:O	2.37	0.42
14:AM:69:LYS:CB	14:AM:123:ARG:HA	2.50	0.42
21:AT:37:SER:C	21:AT:39:ASP:N	2.76	0.42
24:Ac:42:UNK:O	24:Ac:43:UNK:C	2.67	0.42
29:B1:62:A:C5	29:B1:63:A:N7	2.88	0.42
29:B1:79:U:C2	29:B1:325:A:N1	2.88	0.42
29:B1:246:U:O2	29:B1:246:U:O4'	2.37	0.42
29:B1:402:A:OP1	29:B1:402:A:H4'	2.19	0.42
29:B1:511:G:H21	29:B1:579:G:N2	2.18	0.42
29:B1:538:G:N3	29:B1:556:U:C5	2.88	0.42
29:B1:609:G:OP2	29:B1:609:G:H2'	2.20	0.42
29:B1:681:U:HO2'	29:B1:682:U:P	2.42	0.42
29:B1:780:A:C6	29:B1:781:G:C5	3.08	0.42
29:B1:836:A:C5'	29:B1:837:A:OP2	2.65	0.42
29:B1:1118:C:N3	29:B1:1119:C:C5	2.88	0.42
29:B1:1160:C:O2'	29:B1:1161:G:H5"	2.20	0.42
29:B1:1178:G:C3'	29:B1:1179:A:H5'	2.49	0.42
29:B1:1184:A:H5'	29:B1:1184:A:C8	2.44	0.42
29:B1:1204:A:C8	29:B1:1205:A:C8	3.07	0.42
29:B1:1257:C:O2	29:B1:1257:C:H2'	2.20	0.42
29:B1:1340:G:N2	29:B1:1341:U:C2	2.88	0.42
29:B1:1340:G:C4	29:B1:1341:U:C5	3.08	0.42
29:B1:1341:U:C2	29:B1:1342:C:C6	3.08	0.42
29:B1:1351:U:C2'	29:B1:1352:A:C8	3.02	0.42
29:B1:1372:C:O2'	29:B1:1373:A:H5'	2.20	0.42
29:B1:1390:A:C5	29:B1:1418:A:C4	3.08	0.42
29:B1:1404:G:C6	29:B1:1408:G:C6	3.08	0.42
29:B1:1447:G:HO2'	29:B1:2355:G:H1	1.65	0.42
29:B1:1461:A:C2'	29:B1:1462:A:H8	2.32	0.42
29:B1:1468:A:O2'	29:B1:1469:C:C5'	2.67	0.42
29:B1:1519:G:H2'	29:B1:1520:G:H5"	2.01	0.42
29:B1:1550:C:H1'	29:B1:2166:A:H61	1.84	0.42
29:B1:1608:C:N3	29:B1:1609:C:C4	2.88	0.42
29:B1:1631:C:H3'	29:B1:1631:C:P	2.60	0.42
29:B1:1730:G:O6	55:BZ:29:SER:N	2.51	0.42
29:B1:1783:U:C2	29:B1:1784:G:N7	2.88	0.42
29:B1:1811:G:C5	29:B1:1812:G:H8	2.38	0.42
29:B1:2111:G:N2	51:BV:48:ARG:O	2.52	0.42
29:B1:2262:A:C2	29:B1:2263:C:O4'	2.72	0.42
29:B1:2279:A:C4'	29:B1:2280:A:C5'	2.97	0.42
29:B1:2416:U:H2'	29:B1:2417:U:C5	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2421:U:C2'	29:B1:2422:C:O5'	2.67	0.42
29:B1:2625:C:C2	29:B1:2627:C:C5	3.08	0.42
29:B1:2640:A:C6	29:B1:2641:U:C4	3.08	0.42
29:B1:2688:U:O3'	29:B1:2689:A:N7	2.53	0.42
29:B1:2896:A:C2'	29:B1:2897:A:C5'	2.98	0.42
29:B1:2897:A:H2'	29:B1:2899:C:C5'	2.44	0.42
29:B1:2897:A:C2	29:B1:2905:U:N3	2.87	0.42
29:B1:2997:G:O2'	29:B1:2998:U:O5'	2.35	0.42
29:B1:3048:A:N7	29:B1:3090:U:C4	2.88	0.42
29:B1:3099:C:O2'	29:B1:3100:U:C6	2.38	0.42
29:B1:3105:U:C6	29:B1:3106:A:C8	3.08	0.42
29:B1:3363:U:H3'	29:B1:3364:C:C6	2.36	0.42
31:B3:77:A:H61	53:BX:81:GLN:CB	2.33	0.42
32:BA:12:HIS:CB	32:BA:213:ALA:HB1	2.50	0.42
34:BC:67:PHE:O	34:BC:68:HIS:C	2.63	0.42
36:BE:159:VAL:C	36:BE:161:GLY:N	2.51	0.42
36:BE:192:PRO:O	36:BE:193:GLU:C	2.61	0.42
39:BH:212:ALA:O	39:BH:213:LYS:C	2.62	0.42
41:BJ:42:THR:C	41:BJ:44:ASP:N	2.76	0.42
43:BN:24:LYS:CB	43:BN:32:LEU:N	2.83	0.42
44:BO:184:LYS:O	44:BO:186:GLY:N	2.53	0.42
53:BX:75:ARG:O	53:BX:77:LYS:N	2.53	0.42
58:Bc:15:GLU:HA	58:Bc:18:ALA:HB2	2.02	0.42
1:C1:8:U:O2'	74:C1:1953:OHX:N2	2.53	0.42
1:C1:24:U:HO2'	1:C1:25:C:H5	1.60	0.42
1:C1:41:A:OP1	1:C1:379:U:H1'	2.20	0.42
1:C1:59:C:O2	1:C1:452:A:O4'	2.37	0.42
1:C1:97:C:C2	1:C1:98:U:C6	3.08	0.42
1:C1:143:G:C2'	1:C1:144:U:H4'	2.50	0.42
1:C1:154:G:C5	1:C1:155:U:C4	3.08	0.42
1:C1:210:A:C4	1:C1:211:U:C6	3.08	0.42
1:C1:224:C:N4	1:C1:838:G:C2	2.88	0.42
1:C1:276:C:O2'	1:C1:277:U:O5'	2.37	0.42
1:C1:295:A:C2	1:C1:296:U:C1'	3.03	0.42
1:C1:301:A:H5"	1:C1:302:U:P	2.60	0.42
1:C1:390:G:O2'	1:C1:1731:A:H4'	2.20	0.42
1:C1:472:U:C6	1:C1:473:A:C8	3.08	0.42
1:C1:629:U:O5'	1:C1:629:U:H6	2.03	0.42
1:C1:689:G:H2'	1:C1:690:G:O4'	2.20	0.42
1:C1:816:G:O6	1:C1:857:U:O2	2.38	0.42
1:C1:867:G:C2	1:C1:868:G:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:945:U:N3	1:C1:946:U:H5	2.18	0.42
1:C1:1107:G:C6	1:C1:1108:G:O6	2.72	0.42
1:C1:1176:G:H1'	1:C1:1464:G:N2	2.34	0.42
1:C1:1214:U:O5'	1:C1:1245:G:N2	2.53	0.42
1:C1:1241:G:C2	1:C1:1243:G:O5'	2.73	0.42
1:C1:1242:A:N1	1:C1:1452:U:H1'	2.35	0.42
1:C1:1252:C:O2	1:C1:1252:C:H2'	2.20	0.42
1:C1:1299:G:H2'	1:C1:1300:A:H8	1.76	0.42
1:C1:1346:A:N3	15:CN:14:GLN:HA	2.35	0.42
1:C1:1366:U:C2	1:C1:1367:G:C8	3.08	0.42
1:C1:1444:A:H5"	1:C1:1445:G:OP1	2.20	0.42
1:C1:1557:U:O2	1:C1:1558:U:C6	2.72	0.42
1:C1:1590:G:C5	1:C1:1591:C:N4	2.88	0.42
1:C1:1671:A:N6	1:C1:1672:G:C2	2.88	0.42
1:C1:1683:C:C6	1:C1:1719:A:C6	3.08	0.42
1:C1:1791:A:C5'	1:C1:1791:A:C8	3.03	0.42
3:CB:217:ALA:C	3:CB:219:GLY:N	2.75	0.42
11:CJ:98:ASP:C	11:CJ:100:GLN:N	2.77	0.42
12:CK:48:ASN:O	12:CK:52:GLY:N	2.45	0.42
17:CP:110:LYS:C	17:CP:112:LYS:H	2.27	0.42
22:Ca:14:UNK:C	22:Ca:16:UNK:N	2.82	0.42
29:D1:14:U:O2	29:D1:14:U:O5'	2.37	0.42
29:D1:41:G:O4'	29:D1:2410:U:O2	2.37	0.42
29:D1:120:G:N1	29:D1:150:A:H5"	2.35	0.42
29:D1:189:G:H1'	29:D1:191:U:H5	1.84	0.42
29:D1:195:U:C4'	29:D1:1391:C:H5	2.24	0.42
29:D1:280:U:O2	29:D1:286:U:N1	2.52	0.42
29:D1:431:U:C6	29:D1:431:U:C4'	3.03	0.42
29:D1:431:U:N3	29:D1:432:G:N7	2.68	0.42
29:D1:499:G:H2'	29:D1:500:C:O5'	2.19	0.42
29:D1:575:G:C2'	29:D1:576:C:O5'	2.67	0.42
29:D1:666:A:HO2'	29:D1:667:C:P	2.40	0.42
29:D1:739:G:C2	29:D1:740:G:C4	3.08	0.42
29:D1:887:G:O6	29:D1:888:A:C6	2.73	0.42
29:D1:968:G:C6	29:D1:969:C:C4	3.08	0.42
29:D1:975:C:C6	29:D1:975:C:H5"	2.54	0.42
29:D1:1150:A:C2	29:D1:1151:U:C1'	3.02	0.42
29:D1:1341:U:C2	29:D1:1342:C:C6	3.08	0.42
29:D1:1444:G:C6	29:D1:1445:U:C2	3.07	0.42
29:D1:1445:U:C4	29:D1:1446:A:C5	3.08	0.42
29:D1:1489:A:C3'	29:D1:1490:A:H8	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1502:C:OP2	74:D1:3407:OHX:N1	2.53	0.42
29:D1:1710:C:H5”	29:D1:1710:C:C6	2.50	0.42
29:D1:1799:A:C2	29:D1:1800:A:N3	2.88	0.42
29:D1:1811:G:H2’	29:D1:1812:G:O4’	2.20	0.42
29:D1:1912:U:O2’	29:D1:1913:A:P	2.77	0.42
29:D1:2270:A:N1	29:D1:2271:A:C2	2.87	0.42
29:D1:2286:U:O4	29:D1:2288:G:H1’	2.17	0.42
29:D1:2374:C:N3	29:D1:2941:A:C2	2.88	0.42
29:D1:2407:C:N3	29:D1:2408:U:C4	2.88	0.42
29:D1:2420:C:C3’	29:D1:2421:U:H5’	2.50	0.42
29:D1:2513:U:H5	29:D1:2591:A:N6	2.18	0.42
29:D1:2558:U:H4’	29:D1:2559:U:OP2	2.20	0.42
29:D1:2701:U:O4’	29:D1:2705:A:C6	2.72	0.42
29:D1:2710:C:H3’	29:D1:2710:C:C6	2.55	0.42
29:D1:2742:C:C2	29:D1:2743:A:C8	3.07	0.42
29:D1:2840:C:N4	29:D1:2841:G:C5	2.88	0.42
29:D1:2895:G:C5	29:D1:2907:G:C2	3.08	0.42
29:D1:3004:C:C2’	29:D1:3005:A:O5’	2.68	0.42
29:D1:3072:C:H2’	29:D1:3073:A:O5’	2.19	0.42
29:D1:3214:U:O2’	29:D1:3218:A:H5’	2.20	0.42
29:D1:3230:G:C6	29:D1:3231:U:C4	3.08	0.42
29:D1:3288:G:H2’	29:D1:3289:G:H5’	2.02	0.42
30:D2:40:C:H5”	30:D2:41:G:OP2	2.20	0.42
30:D2:46:A:C4	30:D2:46:A:C3’	3.03	0.42
30:D2:88:G:H2’	30:D2:89:G:C8	2.51	0.42
31:D3:12:A:C5	31:D3:13:A:C8	3.08	0.42
31:D3:49:G:C8	58:Dc:41:LEU:N	2.88	0.42
31:D3:53:A:N3	31:D3:54:A:C8	2.88	0.42
33:DB:130:SER:O	33:DB:131:GLY:C	2.61	0.42
38:DG:105:LEU:C	38:DG:107:ARG:N	2.76	0.42
38:DG:120:THR:O	38:DG:123:THR:CA	2.68	0.42
38:DG:193:PRO:O	38:DG:194:HIS:C	2.62	0.42
39:DH:230:LYS:N	39:DH:231:LYS:O	2.53	0.42
40:DI:110:LYS:O	40:DI:111:PHE:O	2.38	0.42
46:DQ:113:TYR:O	46:DQ:114:VAL:C	2.63	0.42
52:DW:72:ALA:O	52:DW:73:MET:C	2.62	0.42
55:DZ:51:LEU:C	55:DZ:53:LYS:N	2.78	0.42
61:Df:18:ARG:O	61:Df:19:LYS:CB	2.68	0.42
1:A1:40:A:C2’	1:A1:41:A:H8	2.15	0.41
1:A1:243:G:H5”	1:A1:243:G:H8	1.84	0.41
1:A1:356:G:C4	1:A1:357:G:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:356:G:C5	1:A1:357:G:C8	3.07	0.41
1:A1:362:G:O6	1:A1:363:G:C6	2.73	0.41
1:A1:463:U:H2'	1:A1:464:A:H8	1.84	0.41
1:A1:487:G:N2	1:A1:488:G:C5	2.88	0.41
1:A1:533:U:H2'	1:A1:534:A:C8	2.54	0.41
1:A1:643:G:O2'	1:A1:644:C:H5'	2.20	0.41
1:A1:770:A:H2'	1:A1:771:A:O4'	2.20	0.41
1:A1:799:A:C2	1:A1:800:U:H1'	2.55	0.41
1:A1:861:U:H5	1:A1:862:A:N7	2.18	0.41
1:A1:999:U:C2	1:A1:1000:C:O2	2.72	0.41
1:A1:1045:C:O2'	1:A1:1046:G:OP1	2.37	0.41
1:A1:1161:C:O2	1:A1:1161:C:H2'	2.20	0.41
1:A1:1172:G:C5	1:A1:1173:C:N4	2.87	0.41
1:A1:1275:A:C8	1:A1:1438:G:C2	3.08	0.41
1:A1:1282:U:N3	1:A1:1283:U:C5	2.88	0.41
1:A1:1333:C:C2	1:A1:1419:G:C2	3.07	0.41
1:A1:1422:A:C2'	1:A1:1423:U:H5'	2.50	0.41
1:A1:1442:U:H2'	1:A1:1443:U:C5	2.54	0.41
1:A1:1472:C:O2	1:A1:1472:C:C2'	2.67	0.41
1:A1:1535:U:N3	5:AD:186:ASN:O	2.53	0.41
1:A1:1628:U:C2'	1:A1:1629:G:C8	2.93	0.41
1:A1:1629:G:H2'	1:A1:1630:U:C6	2.56	0.41
1:A1:1632:C:O2'	1:A1:1633:A:H5"	2.20	0.41
1:A1:1667:A:N1	1:A1:1668:G:C6	2.87	0.41
6:AE:33:GLU:O	6:AE:35:GLY:N	2.54	0.41
6:AE:56:ALA:O	6:AE:57:ARG:C	2.63	0.41
8:AG:121:ARG:C	8:AG:123:HIS:N	2.78	0.41
9:AH:6:GLN:O	9:AH:7:ALA:HB3	2.20	0.41
9:AH:65:GLN:C	9:AH:67:VAL:H	2.27	0.41
12:AK:10:LYS:HA	12:AK:13:SER:CB	2.50	0.41
13:AL:114:GLU:O	13:AL:115:ARG:C	2.63	0.41
16:AO:80:ASN:C	16:AO:123:GLY:O	2.62	0.41
17:AP:48:HIS:O	17:AP:49:ALA:CB	2.68	0.41
21:AT:19:TRP:O	21:AT:38:ARG:N	2.34	0.41
23:Ab:131:UNK:O	23:Ab:132:UNK:CB	2.68	0.41
24:Ac:3:UNK:CA	24:Ac:72:UNK:HA	2.49	0.41
29:B1:23:A:N3	29:B1:23:A:C2'	2.81	0.41
29:B1:49:A:N6	29:B1:279:U:O2'	2.53	0.41
29:B1:154:U:OP1	29:B1:156:G:O6	2.37	0.41
29:B1:189:G:H2'	29:B1:224:C:OP1	2.20	0.41
29:B1:189:G:H1'	29:B1:191:U:H5	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:283:G:H3'	29:B1:285:A:H8	1.85	0.41
29:B1:293:C:C2	29:B1:294:U:C2	3.08	0.41
29:B1:321:C:H2'	29:B1:322:U:O4'	2.20	0.41
29:B1:331:G:O6	31:B3:33:A:N1	2.53	0.41
29:B1:504:A:H2'	29:B1:505:G:O5'	2.20	0.41
29:B1:513:G:H8	29:B1:513:G:O5'	2.03	0.41
29:B1:527:A:H2'	29:B1:527:A:N3	2.35	0.41
29:B1:527:A:N6	29:B1:566:G:C6	2.88	0.41
29:B1:595:G:N3	29:B1:596:C:C6	2.88	0.41
29:B1:607:A:C6	29:B1:608:A:C6	3.07	0.41
29:B1:688:G:C4	29:B1:690:A:C8	3.08	0.41
29:B1:761:A:H3'	29:B1:762:U:C4'	2.50	0.41
29:B1:776:U:C6	29:B1:777:U:N1	2.88	0.41
29:B1:845:G:H21	29:B1:848:A:N6	2.18	0.41
29:B1:861:C:C4	29:B1:862:U:C5	3.08	0.41
29:B1:901:G:C5	29:B1:902:G:N7	2.87	0.41
29:B1:908:G:C5	29:B1:925:A:C4	3.08	0.41
29:B1:1006:A:C5	29:B1:1007:U:C5	3.08	0.41
29:B1:1151:U:H5'	29:B1:2379:U:H4'	2.01	0.41
29:B1:1218:U:N3	29:B1:1219:C:C5	2.88	0.41
29:B1:1233:G:HO2'	29:B1:1234:G:C5'	2.32	0.41
29:B1:1254:C:N3	29:B1:1255:C:C5	2.88	0.41
29:B1:1281:G:N1	29:B1:1282:G:C4	2.88	0.41
29:B1:1403:C:H5'	29:B1:1404:G:OP2	2.20	0.41
29:B1:1485:G:O2'	29:B1:1874:A:O2'	2.38	0.41
29:B1:1561:G:H2'	29:B1:1562:C:C6	2.54	0.41
29:B1:1631:C:C2	29:B1:1645:U:C5	3.08	0.41
29:B1:1819:U:C5	29:B1:1820:U:O4	2.73	0.41
29:B1:1931:U:O2	29:B1:2121:G:C2	2.73	0.41
29:B1:2278:C:N3	29:B1:2307:G:C2	2.88	0.41
29:B1:2370:G:N9	29:B1:2371:G:C8	2.88	0.41
29:B1:2561:A:O2'	29:B1:2562:A:O4'	2.37	0.41
29:B1:2579:G:OP1	29:B1:2581:U:H5'	2.20	0.41
29:B1:2720:G:H2'	29:B1:2721:A:C8	2.50	0.41
29:B1:2727:A:N6	29:B1:2728:G:O6	2.51	0.41
29:B1:2733:A:C4	29:B1:2734:A:C8	3.08	0.41
29:B1:2834:G:C2	29:B1:2835:U:C5	3.08	0.41
29:B1:2876:C:N1	29:B1:2952:G:N2	2.68	0.41
29:B1:2897:A:C2	29:B1:2905:U:O2	2.73	0.41
29:B1:2986:U:C2	29:B1:2987:A:N7	2.88	0.41
29:B1:3062:G:C6	29:B1:3063:C:N4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3114:A:C5	29:B1:3115:C:C5	3.07	0.41
29:B1:3198:U:O2	29:B1:3199:G:C8	2.72	0.41
29:B1:3330:A:C5	29:B1:3331:U:C5	3.08	0.41
29:B1:3344:A:N6	29:B1:3362:A:C6	2.80	0.41
29:B1:3357:U:H2'	29:B1:3358:U:H5	1.84	0.41
30:B2:44:C:C4	30:B2:45:A:C8	3.07	0.41
33:BB:121:GLY:O	33:BB:122:ASP:O	2.38	0.41
33:BB:175:VAL:O	33:BB:176:ASP:CB	2.68	0.41
34:BC:294:GLY:C	34:BC:305:ILE:H	2.28	0.41
36:BE:36:LEU:C	36:BE:38:THR:N	2.78	0.41
36:BE:193:GLU:O	36:BE:196:ARG:CB	2.68	0.41
36:BE:256:THR:O	36:BE:257:GLU:C	2.63	0.41
36:BE:257:GLU:CA	36:BE:259:LYS:N	2.75	0.41
38:BG:219:LYS:C	38:BG:221:LYS:H	2.27	0.41
40:BI:159:ALA:O	40:BI:162:GLN:N	2.53	0.41
42:BK:90:GLN:HA	42:BK:169:ALA:O	2.19	0.41
44:BO:85:THR:CA	44:BO:86:ASN:C	2.92	0.41
48:BS:5:ARG:O	48:BS:6:THR:C	2.62	0.41
54:BY:89:GLN:O	54:BY:90:TYR:CB	2.68	0.41
1:C1:24:U:H6	1:C1:24:U:O5'	2.03	0.41
1:C1:55:A:C4	1:C1:403:G:C2	3.07	0.41
1:C1:150:U:H5'	1:C1:151:G:P	2.60	0.41
1:C1:237:C:O2'	1:C1:238:U:P	2.78	0.41
1:C1:248:U:H4'	1:C1:249:U:OP1	2.20	0.41
1:C1:283:U:O3'	1:C1:285:G:OP1	2.38	0.41
1:C1:389:G:C6	1:C1:390:G:C5	3.08	0.41
1:C1:396:G:H21	1:C1:398:G:H3'	1.84	0.41
1:C1:446:A:H2'	1:C1:447:U:H6	1.84	0.41
1:C1:529:A:O4'	1:C1:529:A:OP2	2.37	0.41
1:C1:541:A:H2'	1:C1:541:A:N3	2.35	0.41
1:C1:719:U:O2'	1:C1:720:G:C8	2.73	0.41
1:C1:769:A:C2'	1:C1:770:A:H5'	2.49	0.41
1:C1:774:A:C2	1:C1:775:G:H1'	2.55	0.41
1:C1:906:A:C6	1:C1:907:A:C5	3.08	0.41
1:C1:1042:G:C2'	1:C1:1043:A:O4'	2.65	0.41
1:C1:1141:G:C5'	1:C1:1142:A:OP2	2.68	0.41
1:C1:1151:A:C2'	1:C1:1152:A:H5'	2.50	0.41
1:C1:1237:G:C4	1:C1:1238:A:N7	2.87	0.41
1:C1:1391:A:C2	1:C1:1392:U:C4	3.08	0.41
1:C1:1534:G:H4'	1:C1:1536:G:C5	2.55	0.41
1:C1:1667:A:C2	1:C1:1668:G:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1774:G:H5”	1:C1:1775:U:OP2	2.20	0.41
2:CA:39:ASN:O	2:CA:40:ALA:O	2.38	0.41
2:CA:62:ARG:HA	2:CA:65:ALA:HB2	2.02	0.41
2:CA:82:GLY:HA2	2:CA:85:ALA:HB3	2.01	0.41
5:CD:117:THR:N	5:CD:191:ALA:HB1	2.35	0.41
5:CD:118:LEU:O	5:CD:121:ILE:N	2.52	0.41
10:CI:27:GLU:O	10:CI:29:SER:N	2.53	0.41
11:CJ:24:ALA:HA	11:CJ:64:ASP:HA	2.01	0.41
11:CJ:106:LYS:O	11:CJ:107:LYS:C	2.61	0.41
12:CK:59:LYS:O	12:CK:60:ARG:C	2.63	0.41
13:CL:74:GLN:O	13:CL:78:HIS:CB	2.68	0.41
17:CP:103:LEU:O	17:CP:104:LEU:O	2.38	0.41
21:CT:116:ASP:O	21:CT:117:LYS:C	2.62	0.41
29:D1:55:G:O2’	29:D1:56:G:O5’	2.39	0.41
29:D1:91:G:H2’	29:D1:92:G:OP2	2.19	0.41
29:D1:189:G:C5	29:D1:206:G:C6	3.07	0.41
29:D1:264:G:C2	29:D1:265:A:C4	3.08	0.41
29:D1:340:C:C5’	29:D1:340:C:C6	3.01	0.41
29:D1:515:C:C2’	29:D1:516:A:C4’	2.96	0.41
29:D1:788:C:N4	29:D1:789:A:H62	2.18	0.41
29:D1:835:G:C4	29:D1:857:G:C2	3.08	0.41
29:D1:1085:A:H3’	29:D1:1086:C:C6	2.53	0.41
29:D1:1128:U:H5”	29:D1:1129:A:OP2	2.18	0.41
29:D1:1154:A:C8	29:D1:1154:A:C3’	3.03	0.41
29:D1:1155:C:C5’	29:D1:1156:C:OP2	2.67	0.41
29:D1:1168:U:C2’	29:D1:1169:A:C5’	2.98	0.41
29:D1:1178:G:C3’	29:D1:1179:A:H5’	2.50	0.41
29:D1:1248:C:OP2	29:D1:1268:G:O6	2.37	0.41
29:D1:1289:G:C2’	29:D1:1290:A:O4’	2.68	0.41
29:D1:1441:G:C3’	29:D1:1442:U:H5”	2.45	0.41
29:D1:1446:A:C4	29:D1:1448:U:O2	2.73	0.41
29:D1:1513:G:N7	29:D1:1515:A:C5	2.88	0.41
29:D1:1602:A:H62	29:D1:1603:A:H61	1.67	0.41
29:D1:1624:G:C2	29:D1:1625:A:N3	2.88	0.41
29:D1:1636:U:H3	29:D1:1710:C:H1’	1.84	0.41
29:D1:1779:C:O5’	29:D1:1780:G:O4’	2.37	0.41
29:D1:1800:A:H2’	29:D1:1801:U:O4’	2.19	0.41
29:D1:1801:U:O5’	29:D1:1801:U:H6	2.03	0.41
29:D1:2137:U:N3	29:D1:2141:U:H5	2.18	0.41
29:D1:2141:U:H6	29:D1:2141:U:H2’	1.47	0.41
29:D1:2213:A:N6	29:D1:2214:A:N6	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2247:G:C6	29:D1:2248:C:N4	2.88	0.41
29:D1:2279:A:C3'	29:D1:2280:A:C5'	2.97	0.41
29:D1:2280:A:C4	29:D1:2282:U:H5	2.38	0.41
29:D1:2300:G:N2	29:D1:2301:U:C2	2.88	0.41
29:D1:2316:G:O2'	29:D1:2317:A:H5'	2.19	0.41
29:D1:2527:G:H5"	29:D1:2528:G:OP2	2.20	0.41
29:D1:2562:A:C4	29:D1:2563:G:C8	3.07	0.41
29:D1:2704:A:C4	29:D1:2706:G:C8	3.08	0.41
29:D1:2779:A:C5	29:D1:2780:A:N7	2.88	0.41
29:D1:2834:G:O2'	29:D1:2835:U:P	2.78	0.41
29:D1:2872:A:H1'	29:D1:2873:U:C5'	2.50	0.41
29:D1:2955:U:C2	29:D1:2956:A:C8	3.08	0.41
29:D1:3037:U:O2'	29:D1:3038:U:C5'	2.50	0.41
29:D1:3045:G:O2'	29:D1:3046:A:OP1	2.33	0.41
29:D1:3141:A:H5'	29:D1:3143:C:H2'	2.00	0.41
29:D1:3279:A:C5	29:D1:3280:U:C4	3.07	0.41
29:D1:3310:A:N6	29:D1:3311:C:C4	2.88	0.41
29:D1:3322:A:C2	29:D1:3386:G:C2	3.08	0.41
29:D1:3328:G:O2'	29:D1:3329:U:O4'	2.38	0.41
29:D1:3334:U:OP2	29:D1:3369:G:N1	2.53	0.41
29:D1:3368:U:H3'	29:D1:3369:G:H5"	2.02	0.41
30:D2:76:A:C4	30:D2:78:U:C4	3.08	0.41
30:D2:88:G:C6	30:D2:89:G:C6	3.08	0.41
31:D3:92:A:N3	31:D3:92:A:C2'	2.74	0.41
33:DB:188:LYS:O	33:DB:190:ARG:N	2.50	0.41
34:DC:39:LYS:O	34:DC:41:VAL:N	2.53	0.41
41:DJ:62:SER:C	41:DJ:64:ALA:N	2.76	0.41
42:DK:97:SER:C	42:DK:99:THR:N	2.76	0.41
72:DL:132:ILE:O	72:DL:133:LEU:C	2.63	0.41
43:DN:111:ALA:C	43:DN:113:THR:N	2.77	0.41
45:DP:25:LYS:C	45:DP:27:LEU:N	2.76	0.41
46:DQ:98:ALA:O	46:DQ:100:ALA:N	2.52	0.41
47:DR:49:LEU:C	47:DR:51:ALA:H	2.28	0.41
50:DU:90:GLY:O	50:DU:91:VAL:O	2.38	0.41
56:Da:10:ARG:O	56:Da:11:GLU:CB	2.66	0.41
56:Da:56:ASN:O	56:Da:57:GLN:C	2.61	0.41
1:A1:47:A:H4'	1:A1:48:G:C5'	2.49	0.41
1:A1:53:G:C5	1:A1:54:C:C5	3.08	0.41
1:A1:105:A:C6	74:A1:1910:OHX:N4	2.88	0.41
1:A1:121:U:C2	1:A1:122:U:H1'	2.56	0.41
1:A1:130:C:H3'	1:A1:131:C:C5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:350:U:O4'	1:A1:352:A:C5	2.73	0.41
1:A1:399:A:O2'	1:A1:401:A:C8	2.65	0.41
1:A1:541:A:H2'	1:A1:541:A:N3	2.35	0.41
1:A1:547:U:H1'	1:A1:596:C:H1'	2.01	0.41
1:A1:704:C:O4'	1:A1:705:U:OP1	2.37	0.41
1:A1:707:A:C6	1:A1:731:C:H5	2.39	0.41
1:A1:757:A:N7	1:A1:758:U:C5	2.89	0.41
1:A1:759:U:O2	1:A1:759:U:H2'	2.19	0.41
1:A1:856:A:N3	1:A1:856:A:C2'	2.83	0.41
1:A1:1102:G:H2'	1:A1:1103:U:O4'	2.20	0.41
1:A1:1109:G:C4	1:A1:1137:A:N1	2.88	0.41
1:A1:1121:C:N3	1:A1:1127:G:C6	2.88	0.41
1:A1:1181:U:C2'	1:A1:1182:U:O5'	2.68	0.41
1:A1:1231:U:C2	1:A1:1258:U:H5'	2.55	0.41
1:A1:1252:C:H2'	1:A1:1252:C:O2	2.18	0.41
1:A1:1421:A:N3	1:A1:1421:A:H2'	2.35	0.41
1:A1:1591:C:O2'	1:A1:1592:A:H5'	2.21	0.41
1:A1:1597:A:N6	1:A1:1598:U:H3	2.17	0.41
1:A1:1614:A:H2	1:A1:1616:G:P	2.42	0.41
1:A1:1656:U:H5'	1:A1:1657:U:O5'	2.18	0.41
1:A1:1657:U:H1'	1:A1:1658:G:P	2.59	0.41
1:A1:1662:G:O2'	1:A1:1663:G:C5'	2.67	0.41
1:A1:1665:U:O2	1:A1:1665:U:H2'	2.19	0.41
1:A1:1673:G:H2'	1:A1:1674:C:H6	1.85	0.41
2:AA:96:THR:O	2:AA:97:PRO:O	2.38	0.41
2:AA:167:LYS:O	2:AA:168:HIS:CB	2.67	0.41
6:AE:22:SER:O	6:AE:26:ALA:HB2	2.20	0.41
9:AH:20:TYR:HA	9:AH:85:ALA:N	2.36	0.41
19:AR:8:THR:O	19:AR:9:LEU:C	2.62	0.41
20:AS:38:ILE:N	74:AS:101:OHX:N5	2.67	0.41
23:Ab:109:UNK:O	23:Ab:110:UNK:C	2.68	0.41
29:B1:184:U:N3	29:B1:185:C:C5	2.88	0.41
29:B1:268:A:O2'	29:B1:269:G:OP2	2.37	0.41
29:B1:296:A:H2'	29:B1:297:G:O4'	2.20	0.41
29:B1:306:A:C2	29:B1:307:A:C4	3.08	0.41
29:B1:331:G:C2	29:B1:332:C:C5	3.08	0.41
29:B1:380:U:C5	74:B1:3539:OHX:N1	2.88	0.41
29:B1:420:G:C2	29:B1:2384:A:N3	2.87	0.41
29:B1:563:U:OP2	29:B1:564:G:H5"	2.19	0.41
29:B1:606:C:C5	29:B1:607:A:C6	3.08	0.41
29:B1:606:C:N3	29:B1:607:A:C2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:706:A:H2'	29:B1:707:U:H5'	2.02	0.41
29:B1:826:G:C4	29:B1:900:G:C6	3.09	0.41
29:B1:832:G:N1	29:B1:863:C:C4	2.88	0.41
29:B1:845:G:C2'	29:B1:846:A:O5'	2.68	0.41
29:B1:956:U:H6	29:B1:956:U:O5'	2.04	0.41
29:B1:966:U:H2'	29:B1:967:A:N9	2.26	0.41
29:B1:1003:A:N6	29:B1:1046:A:H61	2.18	0.41
29:B1:1122:U:O2	29:B1:1122:U:H2'	2.19	0.41
29:B1:1147:G:C6	29:B1:1157:G:C6	3.08	0.41
29:B1:1194:G:N9	29:B1:1309:U:O2	2.53	0.41
29:B1:1212:A:C5	29:B1:1294:A:C2	3.08	0.41
29:B1:1215:U:O5'	29:B1:1215:U:H6	2.03	0.41
29:B1:1252:A:N3	29:B1:1264:G:OP1	2.53	0.41
29:B1:1353:U:O3'	29:B1:1353:U:OP1	2.37	0.41
29:B1:1390:A:C8	29:B1:1418:A:N7	2.87	0.41
29:B1:1424:C:H2'	29:B1:1425:U:O4'	2.20	0.41
29:B1:1461:A:C6	29:B1:1462:A:C6	3.08	0.41
29:B1:1471:U:N3	29:B1:1472:U:C4	2.87	0.41
29:B1:1492:G:O5'	29:B1:1493:G:N2	2.53	0.41
29:B1:1730:G:O6	55:BZ:27:TYR:N	2.52	0.41
29:B1:1733:G:H2'	29:B1:1734:G:C8	2.55	0.41
29:B1:2129:U:H2'	29:B1:2130:G:H8	1.78	0.41
29:B1:2276:G:C4	29:B1:2277:C:C5	3.05	0.41
29:B1:2290:C:O2'	29:B1:2291:A:O5'	2.38	0.41
29:B1:2333:C:H2'	29:B1:2334:U:C1'	2.50	0.41
29:B1:2383:C:C6	29:B1:2384:A:N7	2.87	0.41
29:B1:2673:A:N6	29:B1:2681:U:N3	2.50	0.41
29:B1:2685:C:O2	29:B1:2685:C:H2'	2.19	0.41
29:B1:2694:A:H5'	29:B1:2695:A:OP2	2.20	0.41
29:B1:2700:G:C6	29:B1:2701:U:C4	3.08	0.41
29:B1:2844:C:N4	29:B1:2898:G:H22	2.13	0.41
29:B1:2885:C:C2'	29:B1:2886:U:H5'	2.50	0.41
29:B1:2992:U:O4	29:B1:2993:G:H8	2.02	0.41
29:B1:3006:A:C8	29:B1:3007:U:C2	3.09	0.41
29:B1:3007:U:H2'	29:B1:3008:A:O4'	2.20	0.41
29:B1:3107:U:C2	29:B1:3108:G:C8	3.07	0.41
29:B1:3141:A:O4'	29:B1:3143:C:C2'	2.68	0.41
29:B1:3241:G:H2'	29:B1:3242:G:O5'	2.20	0.41
29:B1:3278:C:H2'	29:B1:3279:A:N9	2.35	0.41
29:B1:3281:U:H2'	29:B1:3282:U:N1	2.34	0.41
30:B2:44:C:C2	30:B2:45:A:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:68:C:HO2'	30:B2:69:C:P	2.43	0.41
30:B2:88:G:C6	30:B2:89:G:O6	2.73	0.41
31:B3:74:U:O2	31:B3:74:U:O4'	2.37	0.41
33:BB:200:ARG:O	33:BB:202:VAL:N	2.48	0.41
34:BC:7:GLU:O	34:BC:8:ALA:HB3	2.20	0.41
36:BE:130:GLU:CA	36:BE:131:LEU:CB	2.98	0.41
36:BE:199:ILE:O	36:BE:200:PHE:C	2.63	0.41
37:BF:155:LEU:C	37:BF:157:GLN:H	2.27	0.41
38:BG:98:LYS:C	38:BG:100:ARG:N	2.73	0.41
39:BH:124:ASP:C	39:BH:126:SER:H	2.27	0.41
44:BO:141:ALA:HA	44:BO:145:ASP:H	1.85	0.41
46:BQ:9:THR:HA	46:BQ:13:LYS:CA	2.50	0.41
47:BR:85:GLY:C	47:BR:86:THR:O	2.63	0.41
49:BT:11:THR:O	49:BT:13:TYR:N	2.52	0.41
49:BT:28:SER:O	49:BT:31:LEU:N	2.53	0.41
60:Be:7:PHE:C	60:Be:10:LYS:H	2.26	0.41
62:Bg:12:GLY:O	62:Bg:13:LYS:C	2.59	0.41
62:Bg:84:ARG:O	62:Bg:87:ARG:CB	2.68	0.41
1:C1:50:C:O2	1:C1:50:C:C2'	2.68	0.41
1:C1:81:G:H2'	1:C1:81:G:N3	2.35	0.41
1:C1:183:U:O2	1:C1:183:U:O4'	2.38	0.41
1:C1:215:A:O5'	1:C1:215:A:C8	2.64	0.41
1:C1:221:A:C5	1:C1:833:U:H5	2.38	0.41
1:C1:312:A:C6	1:C1:315:A:N7	2.89	0.41
1:C1:323:A:O2'	1:C1:324:U:C5'	2.68	0.41
1:C1:395:U:O4	1:C1:396:G:N1	2.53	0.41
1:C1:721:U:C6	1:C1:723:G:OP1	2.73	0.41
1:C1:733:A:OP1	1:C1:733:A:H4'	2.19	0.41
1:C1:772:G:H8	1:C1:772:G:O5'	2.03	0.41
1:C1:782:U:H4'	1:C1:783:G:C5'	2.48	0.41
1:C1:891:A:N6	1:C1:922:G:O6	2.52	0.41
1:C1:967:A:H2'	1:C1:968:U:C6	2.55	0.41
1:C1:993:A:C5	1:C1:1012:U:C2	3.07	0.41
1:C1:1021:C:N3	1:C1:1022:C:O2	2.53	0.41
1:C1:1112:G:C8	1:C1:1113:A:N7	2.88	0.41
1:C1:1171:A:C2'	1:C1:1172:G:C8	3.00	0.41
1:C1:1235:C:C2'	1:C1:1236:A:H5'	2.50	0.41
1:C1:1324:G:C6	1:C1:1325:A:C8	3.08	0.41
1:C1:1374:C:H2'	1:C1:1375:A:N9	2.35	0.41
1:C1:1385:G:C2	1:C1:1386:G:N9	2.87	0.41
1:C1:1422:A:C2	1:C1:1423:U:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1524:A:C2	1:C1:1525:A:C5	3.08	0.41
1:C1:1524:A:C2	1:C1:1525:A:C6	3.09	0.41
1:C1:1650:U:C2	1:C1:1651:A:C8	3.08	0.41
1:C1:1683:C:C5	1:C1:1719:A:N6	2.88	0.41
1:C1:1683:C:H5”	1:C1:1722:A:H2	1.86	0.41
1:C1:1717:G:C6	1:C1:1718:G:N2	2.88	0.41
1:C1:1719:A:H5’	1:C1:1720:G:P	2.60	0.41
2:CA:178:ALA:HA	2:CA:181:VAL:CB	2.50	0.41
4:CC:69:LEU:O	4:CC:71:LEU:N	2.53	0.41
5:CD:207:THR:HA	5:CD:208:SER:HA	1.60	0.41
8:CG:139:TRP:C	8:CG:141:TYR:N	2.75	0.41
14:CM:15:ILE:O	14:CM:18:TYR:N	2.52	0.41
29:D1:29:C:H4’	29:D1:62:A:H4’	2.02	0.41
29:D1:75:G:C6	29:D1:76:G:C6	3.07	0.41
29:D1:124:U:H6	29:D1:124:U:O5’	2.04	0.41
29:D1:156:G:C5	29:D1:158:G:OP2	2.73	0.41
29:D1:352:A:H1’	29:D1:354:U:C6	2.55	0.41
29:D1:361:A:HO2’	29:D1:362:U:P	2.43	0.41
29:D1:411:U:C2	31:D3:13:A:C2	3.08	0.41
29:D1:414:U:C4	29:D1:415:G:N7	2.88	0.41
29:D1:429:U:H2’	29:D1:430:U:C6	2.55	0.41
29:D1:440:A:H5’	29:D1:441:U:H5’	2.02	0.41
29:D1:542:G:N3	29:D1:543:C:C5	2.89	0.41
29:D1:561:C:H2’	29:D1:562:C:C5	2.54	0.41
29:D1:597:G:C5	29:D1:598:A:N7	2.88	0.41
29:D1:614:C:C2’	29:D1:615:U:H5’	2.50	0.41
29:D1:637:C:O2’	29:D1:638:C:H5”	2.20	0.41
29:D1:715:A:C3’	54:DY:115:LYS:CB	2.98	0.41
29:D1:816:A:N6	29:D1:910:G:O2’	2.54	0.41
29:D1:908:G:N7	29:D1:925:A:C4	2.88	0.41
29:D1:968:G:C5	29:D1:969:C:C4	3.08	0.41
29:D1:1049:C:C2’	29:D1:1050:U:H5’	2.49	0.41
29:D1:1081:U:C2’	29:D1:1082:U:OP1	2.68	0.41
29:D1:1105:A:H2’	29:D1:1106:G:O4’	2.21	0.41
29:D1:1154:A:H8	29:D1:1154:A:H5”	1.84	0.41
29:D1:1178:G:N7	29:D1:1179:A:C2	2.88	0.41
29:D1:1225:A:HO2’	29:D1:1226:G:P	2.43	0.41
29:D1:1255:C:O2	29:D1:1255:C:C2’	2.65	0.41
29:D1:1284:C:C2	29:D1:1285:G:C8	3.08	0.41
29:D1:1293:U:C2’	29:D1:1294:A:O5’	2.68	0.41
29:D1:1399:A:C2	31:D3:8:C:H1’	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1503:A:H2'	29:D1:1504:A:O4'	2.20	0.41
29:D1:1714:A:C2'	29:D1:1715:A:OP1	2.69	0.41
29:D1:1843:C:H2'	29:D1:1844:C:H6	1.85	0.41
29:D1:1923:C:O2'	29:D1:1924:U:H5'	2.21	0.41
29:D1:2130:G:O6	29:D1:2323:G:O6	2.38	0.41
29:D1:2136:C:C5'	29:D1:2137:U:OP2	2.55	0.41
29:D1:2151:C:O2	29:D1:2243:A:H2	2.04	0.41
29:D1:2221:G:N2	29:D1:2225:U:C2	2.88	0.41
29:D1:2423:U:O5'	29:D1:2423:U:H6	2.02	0.41
29:D1:2639:G:C4	29:D1:2640:A:C8	3.07	0.41
29:D1:2725:U:C5	29:D1:2727:A:C4	3.08	0.41
29:D1:2743:A:N3	29:D1:2743:A:H2'	2.35	0.41
29:D1:2801:A:O2'	29:D1:2802:A:H2'	2.19	0.41
29:D1:2927:C:H2'	29:D1:2928:C:O4'	2.21	0.41
29:D1:3040:A:N3	29:D1:3040:A:H2'	2.34	0.41
29:D1:3102:G:N2	29:D1:3103:A:N3	2.68	0.41
29:D1:3120:C:H5'	29:D1:3121:U:OP2	2.20	0.41
29:D1:3141:A:C5'	29:D1:3143:C:H2'	2.50	0.41
29:D1:3196:U:H2'	29:D1:3197:G:C2	2.55	0.41
29:D1:3197:G:C2'	29:D1:3197:G:N3	2.83	0.41
29:D1:3218:A:HO2'	29:D1:3219:G:H3'	1.61	0.41
29:D1:3354:U:O2'	29:D1:3355:U:O5'	2.34	0.41
29:D1:3375:A:OP2	29:D1:3375:A:C4'	2.65	0.41
29:D1:3377:G:C1'	29:D1:3378:C:P	3.06	0.41
30:D2:79:A:C1'	30:D2:102:A:N6	2.84	0.41
30:D2:83:U:C2'	30:D2:84:A:H5'	2.50	0.41
30:D2:117:A:N6	30:D2:118:A:N6	2.67	0.41
31:D3:131:A:O2'	31:D3:132:G:O5'	2.37	0.41
31:D3:151:C:H6	31:D3:151:C:P	2.43	0.41
34:DC:207:SER:O	34:DC:208:VAL:O	2.38	0.41
34:DC:288:GLY:H	34:DC:291:GLU:CB	2.32	0.41
35:DD:13:GLY:C	35:DD:15:ALA:HA	2.44	0.41
35:DD:163:LYS:C	35:DD:165:ALA:N	2.76	0.41
36:DE:245:GLU:C	36:DE:246:ALA:O	2.64	0.41
38:DG:37:ASN:O	38:DG:38:LYS:C	2.62	0.41
41:DJ:212:GLU:C	41:DJ:214:PRO:N	2.77	0.41
45:DP:83:ALA:O	45:DP:85:ARG:N	2.53	0.41
45:DP:139:GLY:C	45:DP:142:SER:H	2.28	0.41
49:DT:28:SER:O	49:DT:29:THR:C	2.64	0.41
51:DV:35:LYS:O	51:DV:36:SER:C	2.64	0.41
58:Dc:40:SER:C	58:Dc:42:PRO:HA	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:33:U:C6	1:A1:33:U:C3'	3.03	0.41
1:A1:267:U:O4	1:A1:268:C:N3	2.53	0.41
1:A1:330:G:C4	1:A1:331:A:N7	2.88	0.41
1:A1:407:A:C5	1:A1:408:C:C5	3.08	0.41
1:A1:461:G:C2	1:A1:462:G:C5	3.08	0.41
1:A1:586:G:C2'	1:A1:587:C:O5'	2.68	0.41
1:A1:641:G:C2	1:A1:642:G:N7	2.88	0.41
1:A1:804:A:C4	1:A1:805:U:C5	3.08	0.41
1:A1:871:G:O2'	1:A1:872:G:O4'	2.33	0.41
1:A1:880:C:C2	1:A1:881:A:C8	3.07	0.41
1:A1:1048:G:H5"	1:A1:1049:U:OP2	2.20	0.41
1:A1:1073:G:H8	1:A1:1073:G:C5'	2.33	0.41
1:A1:1145:U:H2'	1:A1:1146:G:H5"	2.03	0.41
1:A1:1246:C:C5	1:A1:1247:U:C4	3.08	0.41
1:A1:1252:C:O2'	1:A1:1253:U:H5'	2.20	0.41
1:A1:1255:G:O4'	1:A1:1255:G:P	2.78	0.41
1:A1:1267:G:C2	1:A1:1268:G:C4	3.08	0.41
1:A1:1317:C:OP2	74:A1:1929:OHX:N6	2.53	0.41
1:A1:1325:A:N3	1:A1:1326:A:N7	2.67	0.41
1:A1:1347:U:C2	1:A1:1349:G:O6	2.73	0.41
1:A1:1457:C:H6	1:A1:1457:C:H2'	1.61	0.41
1:A1:1553:G:N2	1:A1:1555:A:H3'	2.34	0.41
1:A1:1602:C:C2	1:A1:1603:U:C6	3.07	0.41
1:A1:1717:G:O6	1:A1:1718:G:N2	2.53	0.41
1:A1:1719:A:O3'	1:A1:1720:G:O4'	2.38	0.41
1:A1:1734:U:H5"	1:A1:1735:U:OP2	2.21	0.41
1:A1:1757:G:H5'	1:A1:1757:G:H8	1.85	0.41
2:AA:56:LYS:O	2:AA:57:LEU:C	2.63	0.41
2:AA:183:ARG:C	2:AA:185:ARG:N	2.78	0.41
3:AB:153:SER:HA	3:AB:171:PRO:CB	2.50	0.41
4:AC:162:GLN:O	4:AC:163:PRO:C	2.63	0.41
5:AD:212:LYS:O	5:AD:213:LYS:C	2.62	0.41
9:AH:43:THR:O	9:AH:44:GLY:C	2.62	0.41
14:AM:17:ALA:O	14:AM:18:TYR:C	2.63	0.41
16:AO:96:ALA:O	16:AO:97:ARG:C	2.64	0.41
16:AO:105:THR:O	16:AO:106:THR:O	2.39	0.41
23:Ab:102:UNK:C	23:Ab:104:UNK:N	2.80	0.41
24:Ac:17:UNK:O	24:Ac:21:UNK:N	2.54	0.41
29:B1:44:U:H3	29:B1:94:G:H1	1.66	0.41
29:B1:61:A:C2	29:B1:62:A:H1'	2.55	0.41
29:B1:67:A:C8	29:B1:317:A:C1'	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:220:G:C5	29:B1:1389:G:N2	2.88	0.41
29:B1:232:G:H2'	29:B1:233:C:O4'	2.20	0.41
29:B1:324:A:H2'	29:B1:325:A:C8	2.56	0.41
29:B1:380:U:H5	74:B1:3539:OHX:N1	2.19	0.41
29:B1:420:G:N3	29:B1:2385:G:OP2	2.53	0.41
29:B1:420:G:N3	29:B1:2384:A:N3	2.69	0.41
29:B1:517:G:C6	29:B1:518:G:C6	3.09	0.41
29:B1:532:A:N1	29:B1:560:G:C2	2.88	0.41
29:B1:542:G:O6	29:B1:549:U:O4	2.38	0.41
29:B1:739:G:C2	29:B1:740:G:C5	3.08	0.41
29:B1:795:G:H2'	29:B1:796:U:O5'	2.21	0.41
29:B1:796:U:C2	29:B1:797:U:C5	3.09	0.41
29:B1:1001:G:C8	29:B1:1041:U:O3'	2.73	0.41
29:B1:1021:G:N1	29:B1:1032:C:C2	2.89	0.41
29:B1:1182:A:H2'	29:B1:1183:C:C6	2.56	0.41
29:B1:1187:C:O5'	29:B1:1187:C:H6	2.03	0.41
29:B1:1199:C:O2'	74:B1:3587:OHX:N3	2.53	0.41
29:B1:1212:A:H3'	29:B1:1213:G:C5'	2.50	0.41
29:B1:1311:G:O4'	29:B1:2381:G:H5'	2.20	0.41
29:B1:1351:U:O2	29:B1:1352:A:C6	2.73	0.41
29:B1:1457:U:O2	29:B1:1457:U:H2'	2.20	0.41
29:B1:1501:U:C6	29:B1:1501:U:OP2	2.71	0.41
29:B1:1525:G:H5'	29:B1:1829:G:O2'	2.20	0.41
29:B1:1556:C:O2'	29:B1:1557:A:OP2	2.37	0.41
29:B1:1763:U:H2'	29:B1:1764:U:O4'	2.19	0.41
29:B1:1899:G:N2	29:B1:2334:U:C5	2.88	0.41
29:B1:1943:C:H5'	29:B1:3344:A:H5'	2.03	0.41
29:B1:2095:G:O2'	29:B1:2096:A:H5'	2.19	0.41
29:B1:2203:U:H4'	33:BB:239:ALA:O	2.21	0.41
29:B1:2260:U:OP1	29:B1:2260:U:C4'	2.68	0.41
29:B1:2337:C:C2	29:B1:2338:C:C5	3.08	0.41
29:B1:2598:G:C6	29:B1:2599:U:C4	3.08	0.41
29:B1:2639:G:N1	29:B1:2640:A:C5	2.87	0.41
29:B1:2688:U:C2'	29:B1:2689:A:OP1	2.68	0.41
29:B1:2760:C:O2	29:B1:2760:C:H2'	2.19	0.41
29:B1:2762:A:C5	29:B1:2763:U:C5	3.09	0.41
29:B1:2826:U:C4	29:B1:2827:U:C4	3.08	0.41
29:B1:2856:G:N1	29:B1:2857:C:C4	2.89	0.41
29:B1:2909:U:H2'	29:B1:2910:A:C5'	2.51	0.41
29:B1:3057:U:O2	29:B1:3057:U:H2'	2.20	0.41
29:B1:3096:C:N3	29:B1:3097:C:C5	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3166:C:H2'	29:B1:3167:A:H8	1.86	0.41
29:B1:3182:G:H2'	29:B1:3183:A:O4'	2.20	0.41
29:B1:3225:C:C4	29:B1:3226:A:N6	2.89	0.41
29:B1:3260:G:OP2	29:B1:3260:G:C8	2.73	0.41
29:B1:3322:A:C4	29:B1:3386:G:N2	2.88	0.41
29:B1:3377:G:C4	74:B1:3450:OHX:N4	2.88	0.41
29:B1:3381:U:O2'	29:B1:3383:G:C4	2.73	0.41
30:B2:63:A:C2	30:B2:65:G:C6	3.08	0.41
30:B2:79:A:H1'	30:B2:102:A:H61	1.80	0.41
30:B2:113:C:O2'	30:B2:114:U:O5'	2.39	0.41
31:B3:10:A:C4	31:B3:11:C:C6	3.08	0.41
31:B3:11:C:C2	31:B3:12:A:C8	3.08	0.41
31:B3:92:A:C3'	31:B3:93:U:H5'	2.50	0.41
34:BC:261:MET:O	34:BC:262:TRP:C	2.62	0.41
35:BD:139:GLY:O	35:BD:140:HIS:C	2.63	0.41
35:BD:241:GLY:C	35:BD:243:HIS:N	2.78	0.41
36:BE:260:PHE:C	36:BE:262:LYS:N	2.78	0.41
40:BI:126:VAL:O	40:BI:127:PRO:C	2.62	0.41
45:BP:84:LEU:O	45:BP:87:MET:N	2.53	0.41
52:BW:54:TYR:O	52:BW:56:ARG:N	2.52	0.41
56:Ba:80:ASN:C	56:Ba:82:GLU:N	2.77	0.41
58:Bc:40:SER:C	58:Bc:42:PRO:HA	2.35	0.41
60:Be:26:TRP:C	60:Be:28:ARG:H	2.28	0.41
71:Br:8:UNK:O	71:Br:9:UNK:C	2.67	0.41
1:C1:27:U:H2'	1:C1:28:A:H8	1.85	0.41
1:C1:40:A:C2'	1:C1:41:A:O4'	2.68	0.41
1:C1:151:G:N2	1:C1:163:G:N2	2.68	0.41
1:C1:183:U:C5	1:C1:184:C:C5	3.08	0.41
1:C1:198:A:N3	1:C1:199:G:O4'	2.53	0.41
1:C1:206:A:O2'	1:C1:207:U:H5'	2.21	0.41
1:C1:265:A:N7	1:C1:290:G:C2	2.87	0.41
1:C1:269:G:N3	1:C1:270:C:C6	2.89	0.41
1:C1:295:A:N1	1:C1:296:U:O2	2.53	0.41
1:C1:332:U:H5"	1:C1:333:A:OP2	2.20	0.41
1:C1:461:G:O2'	1:C1:462:G:O5'	2.36	0.41
1:C1:577:G:H8	1:C1:577:G:H2'	1.71	0.41
1:C1:665:U:H2'	1:C1:666:U:H5"	2.02	0.41
1:C1:709:C:OP2	1:C1:709:C:H6	2.04	0.41
1:C1:733:A:C5	1:C1:734:A:C4	3.08	0.41
1:C1:884:A:H2'	1:C1:885:G:H8	1.78	0.41
1:C1:1164:G:O2'	1:C1:1165:G:C5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1170:G:H22	1:C1:1571:C:H4'	1.80	0.41
1:C1:1302:U:O2	1:C1:1302:U:H2'	2.20	0.41
1:C1:1338:C:C1'	1:C1:1410:A:C2	3.03	0.41
1:C1:1347:U:C4	1:C1:1376:C:N4	2.88	0.41
1:C1:1368:G:H2'	1:C1:1368:G:N3	2.35	0.41
1:C1:1467:C:N3	1:C1:1468:U:C4	2.89	0.41
1:C1:1476:C:H2'	1:C1:1477:G:C8	2.55	0.41
1:C1:1525:A:C2	1:C1:1526:A:C5	3.09	0.41
1:C1:1571:C:C3'	1:C1:1572:G:H5"	2.45	0.41
1:C1:1615:C:H2'	1:C1:1616:G:H4'	2.02	0.41
1:C1:1725:U:H2'	1:C1:1726:G:C8	2.55	0.41
1:C1:1783:C:N3	1:C1:1784:C:C5	2.88	0.41
2:CA:56:LYS:O	2:CA:59:LEU:N	2.53	0.41
2:CA:107:PHE:HA	2:CA:117:GLU:CB	2.50	0.41
2:CA:109:ASN:O	2:CA:110:TYR:C	2.63	0.41
6:CE:73:GLY:O	6:CE:75:ALA:N	2.52	0.41
11:CJ:82:ARG:O	11:CJ:83:GLN:C	2.62	0.41
17:CP:136:TRP:HA	17:CP:137:LYS:HA	1.81	0.41
21:CT:216:LYS:O	21:CT:217:ASP:C	2.64	0.41
21:CT:219:GLU:HA	21:CT:236:ALA:H	1.85	0.41
23:Cb:50:UNK:C	23:Cb:52:UNK:N	2.84	0.41
24:Cc:53:UNK:O	24:Cc:54:UNK:C	2.68	0.41
29:D1:114:A:N3	29:D1:267:G:C2	2.89	0.41
29:D1:265:A:H4'	29:D1:266:A:O5'	2.19	0.41
29:D1:373:A:C6	29:D1:375:A:N6	2.88	0.41
29:D1:418:A:H2'	29:D1:419:G:C8	2.56	0.41
29:D1:504:A:C2	29:D1:505:G:N1	2.89	0.41
29:D1:516:A:C4'	29:D1:517:G:OP1	2.66	0.41
29:D1:535:G:N2	29:D1:558:U:O2'	2.53	0.41
29:D1:550:A:C6	29:D1:551:A:C5	3.09	0.41
29:D1:592:A:C2	29:D1:593:C:N1	2.88	0.41
29:D1:624:G:H2'	29:D1:624:G:N3	2.35	0.41
29:D1:642:U:C5'	29:D1:643:U:OP2	2.68	0.41
29:D1:642:U:H5'	29:D1:1116:G:N7	2.35	0.41
29:D1:693:A:C2'	29:D1:694:C:C6	2.99	0.41
29:D1:746:A:O2'	29:D1:747:A:OP1	2.33	0.41
29:D1:759:U:C4	29:D1:760:G:C2	3.08	0.41
29:D1:776:U:C4'	29:D1:777:U:H5"	2.46	0.41
29:D1:776:U:C6	29:D1:777:U:O4'	2.73	0.41
29:D1:845:G:N2	29:D1:848:A:N6	2.68	0.41
29:D1:946:U:O2	29:D1:947:G:C8	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:974:G:C4	29:D1:975:C:C6	3.09	0.41
29:D1:1074:U:H4'	29:D1:1075:A:OP2	2.20	0.41
29:D1:1128:U:O2	29:D1:1129:A:C1'	2.69	0.41
29:D1:1192:C:O5'	29:D1:1193:A:OP2	2.38	0.41
29:D1:1227:C:H2'	29:D1:1227:C:O2	2.20	0.41
29:D1:1234:G:O5'	29:D1:1235:U:OP2	2.39	0.41
29:D1:1257:C:C2	29:D1:1258:U:C6	3.08	0.41
29:D1:1257:C:C2	29:D1:1261:G:N2	2.89	0.41
29:D1:1266:G:C6	29:D1:1267:U:C5	3.08	0.41
29:D1:1311:G:O5'	29:D1:1311:G:H8	2.03	0.41
29:D1:1440:G:C2	29:D1:1441:G:C8	3.07	0.41
29:D1:1454:A:C5'	29:D1:1878:G:C6	2.94	0.41
29:D1:1508:C:C2'	29:D1:1509:A:H5'	2.51	0.41
29:D1:1627:U:C3'	29:D1:1628:C:O4'	2.64	0.41
29:D1:1841:A:C6	29:D1:1848:G:C6	3.08	0.41
29:D1:1888:U:C4	29:D1:1889:G:C8	3.08	0.41
29:D1:1913:A:C2	29:D1:2120:A:H8	2.38	0.41
29:D1:1931:U:O2	29:D1:2121:G:C2	2.72	0.41
29:D1:2166:A:C6	29:D1:2167:A:C6	3.08	0.41
29:D1:2196:C:C4	29:D1:2242:A:C5	3.09	0.41
29:D1:2215:A:N3	29:D1:2215:A:C2'	2.77	0.41
29:D1:2219:A:H2'	29:D1:2220:A:H5'	2.01	0.41
29:D1:2250:G:N1	29:D1:2267:C:N3	2.58	0.41
29:D1:2260:U:C3'	29:D1:2261:G:C8	3.03	0.41
29:D1:2278:C:C2	29:D1:2307:G:N2	2.89	0.41
29:D1:2339:C:C5	29:D1:3093:C:OP1	2.69	0.41
29:D1:2409:G:C2	29:D1:2411:U:C6	3.08	0.41
29:D1:2423:U:HO2'	29:D1:2424:A:P	2.43	0.41
29:D1:2511:A:C2'	29:D1:2512:C:H5'	2.48	0.41
29:D1:2620:G:H2'	29:D1:2621:G:H5'	2.02	0.41
29:D1:2698:G:C2'	29:D1:2699:G:C5'	2.83	0.41
29:D1:2852:C:H5	29:D1:2853:A:C5	2.39	0.41
29:D1:2900:A:N3	29:D1:2901:G:N7	2.67	0.41
29:D1:2916:U:H2'	29:D1:2917:G:H8	1.85	0.41
29:D1:3012:A:C2'	29:D1:3013:U:C5'	2.92	0.41
29:D1:3090:U:OP1	29:D1:3090:U:C4'	2.67	0.41
29:D1:3105:U:C6	29:D1:3106:A:C8	3.08	0.41
29:D1:3130:A:H5'	29:D1:3131:U:C5	2.55	0.41
29:D1:3139:A:H2'	29:D1:3140:G:H5"	2.02	0.41
29:D1:3147:G:C2'	29:D1:3148:U:O5'	2.69	0.41
29:D1:3195:U:H2'	29:D1:3195:U:O2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3292:A:O3'	29:D1:3293:U:O3'	2.39	0.41
29:D1:3296:A:N3	29:D1:3297:U:C1'	2.84	0.41
30:D2:62:U:O2	30:D2:62:U:C2'	2.64	0.41
30:D2:67:G:C5	30:D2:68:C:C4	3.07	0.41
30:D2:77:G:C2'	30:D2:78:U:OP2	2.68	0.41
31:D3:16:G:C6	74:D3:212:OHX:N3	2.83	0.41
31:D3:112:U:H3	31:D3:114:G:H1'	1.86	0.41
32:DA:115:VAL:C	32:DA:117:ILE:H	2.28	0.41
33:DB:27:ALA:C	33:DB:29:LEU:H	2.27	0.41
35:DD:25:VAL:C	35:DD:27:SER:N	2.78	0.41
35:DD:115:HIS:O	35:DD:118:LYS:N	2.53	0.41
35:DD:152:VAL:O	35:DD:153:SER:C	2.64	0.41
35:DD:257:LYS:O	35:DD:258:LEU:O	2.38	0.41
36:DE:274:GLN:C	36:DE:276:LYS:H	2.27	0.41
37:DF:134:ARG:O	37:DF:138:GLN:N	2.54	0.41
38:DG:128:LYS:C	38:DG:130:ILE:N	2.77	0.41
39:DH:245:LYS:C	39:DH:247:ASP:N	2.78	0.41
41:DJ:209:ASN:O	41:DJ:210:ILE:C	2.62	0.41
46:DQ:85:ALA:C	46:DQ:87:SER:N	2.77	0.41
52:DW:95:ILE:O	52:DW:98:ALA:HB3	2.21	0.41
60:De:6:SER:O	60:De:7:PHE:C	2.63	0.41
1:A1:32:U:H2'	1:A1:33:U:C5'	2.50	0.41
1:A1:114:C:H4'	1:A1:115:G:O5'	2.21	0.41
1:A1:123:G:N1	1:A1:295:A:N6	2.68	0.41
1:A1:243:G:HO2'	1:A1:244:A:H5'	1.84	0.41
1:A1:251:A:H2'	1:A1:252:U:C5'	2.44	0.41
1:A1:323:A:C2'	1:A1:324:U:H5'	2.50	0.41
1:A1:381:C:O2'	1:A1:756:A:C2	2.74	0.41
1:A1:439:U:H6	1:A1:439:U:H2'	1.57	0.41
1:A1:460:A:H2'	1:A1:460:A:N3	2.34	0.41
1:A1:545:A:C2	1:A1:546:U:C2	3.07	0.41
1:A1:755:A:C4	1:A1:756:A:C5	3.09	0.41
1:A1:787:G:H3'	1:A1:788:A:H8	1.85	0.41
1:A1:946:U:N3	1:A1:947:U:C4	2.88	0.41
1:A1:1002:G:C5	1:A1:1003:A:H2	2.38	0.41
1:A1:1084:A:C2'	1:A1:1085:G:H5'	2.50	0.41
1:A1:1092:A:C2	1:A1:1094:G:C5	3.09	0.41
1:A1:1141:G:C4	1:A1:1142:A:C8	3.08	0.41
1:A1:1232:U:O2'	1:A1:1233:G:H5'	2.21	0.41
1:A1:1258:U:H2'	1:A1:1259:U:C1'	2.48	0.41
1:A1:1277:G:C6	1:A1:1278:G:N3	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1652:C:O2	1:A1:1652:C:H2'	2.19	0.41
1:A1:1662:G:C2	1:A1:1663:G:N7	2.89	0.41
1:A1:1776:A:C2	1:A1:1786:G:C5	3.08	0.41
1:A1:1783:C:O2'	1:A1:1784:C:H5'	2.20	0.41
2:AA:14:ALA:HA	2:AA:15:GLN:HA	1.79	0.41
4:AC:19:ALA:O	4:AC:20:GLU:C	2.63	0.41
6:AE:77:ILE:C	6:AE:79:ARG:N	2.75	0.41
8:AG:69:ASN:O	8:AG:71:ILE:N	2.54	0.41
8:AG:138:ASN:C	8:AG:140:LYS:N	2.79	0.41
8:AG:139:TRP:H	8:AG:142:GLU:HA	1.83	0.41
14:AM:101:ASN:C	14:AM:103:LYS:H	2.28	0.41
16:AO:112:ASP:O	16:AO:115:GLU:N	2.52	0.41
17:AP:95:PHE:C	17:AP:97:ASP:N	2.77	0.41
17:AP:123:LYS:O	17:AP:124:VAL:O	2.38	0.41
17:AP:137:LYS:O	17:AP:138:GLU:O	2.38	0.41
18:AQ:80:LEU:C	18:AQ:82:HIS:H	2.27	0.41
29:B1:96:G:C8	29:B1:96:G:C5'	3.03	0.41
29:B1:192:C:C2	29:B1:193:C:C5	3.08	0.41
29:B1:340:C:O2	29:B1:344:A:H2	2.03	0.41
29:B1:342:A:C6	29:B1:368:G:C4	3.09	0.41
29:B1:359:U:C2	29:B1:920:A:N6	2.89	0.41
29:B1:556:U:C4	29:B1:557:A:C2	3.08	0.41
29:B1:685:G:H2'	29:B1:686:G:H5'	2.02	0.41
29:B1:717:C:C6	29:B1:721:G:N2	2.88	0.41
29:B1:749:C:H2'	29:B1:749:C:O2	2.19	0.41
29:B1:763:G:H8	29:B1:763:G:O5'	2.04	0.41
29:B1:789:A:C2'	29:B1:790:U:O5'	2.68	0.41
29:B1:828:A:H5"	29:B1:829:U:P	2.59	0.41
29:B1:907:G:C6	29:B1:926:A:C8	3.08	0.41
29:B1:1029:G:H8	29:B1:1029:G:P	2.44	0.41
29:B1:1172:G:N1	29:B1:1173:U:C4	2.89	0.41
29:B1:1289:G:C2	29:B1:1290:A:C5	3.07	0.41
29:B1:1317:A:N7	29:B1:1319:G:C6	2.88	0.41
29:B1:1410:U:C3'	29:B1:1410:U:C6	3.04	0.41
29:B1:1412:G:N7	29:B1:1413:G:N7	2.68	0.41
29:B1:1483:G:N7	29:B1:1485:G:C4	2.88	0.41
29:B1:1562:C:H2'	29:B1:1563:C:O4'	2.21	0.41
29:B1:1634:G:O6	29:B1:1635:G:O6	2.37	0.41
29:B1:1640:G:C5	29:B1:1641:U:C5	3.07	0.41
29:B1:1657:C:O2'	29:B1:1797:A:OP2	2.22	0.41
29:B1:1658:G:H2'	29:B1:1659:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1683:A:C5	29:B1:1684:U:N3	2.88	0.41
29:B1:1688:U:H2'	29:B1:1689:U:C6	2.50	0.41
29:B1:1798:A:C6	29:B1:1799:A:C6	3.08	0.41
29:B1:1936:A:H2'	29:B1:1937:U:H6	1.85	0.41
29:B1:2209:U:C6	29:B1:2209:U:H3'	2.56	0.41
29:B1:2276:G:N7	29:B1:2277:C:H5	2.19	0.41
29:B1:2309:A:N3	29:B1:2962:U:C5'	2.79	0.41
29:B1:2520:A:C6	29:B1:2521:U:O4	2.74	0.41
29:B1:2674:A:C8	42:BK:108:GLU:CA	3.03	0.41
29:B1:2785:A:C5	29:B1:2786:G:N7	2.88	0.41
29:B1:2929:C:C5	29:B1:2930:A:C8	3.09	0.41
29:B1:2983:C:O2'	29:B1:2984:C:H5'	2.21	0.41
29:B1:3046:A:C4	29:B1:3047:U:C5	3.09	0.41
29:B1:3070:A:C4	29:B1:3071:U:C6	3.09	0.41
29:B1:3194:C:H3'	29:B1:3194:C:H6	1.82	0.41
29:B1:3225:C:C5	74:B1:3420:OHX:N3	2.88	0.41
29:B1:3294:A:C6	29:B1:3295:A:N7	2.89	0.41
29:B1:3325:G:O6	74:B1:3456:OHX:N1	2.54	0.41
29:B1:3377:G:C4	29:B1:3379:C:OP1	2.73	0.41
29:B1:3377:G:C6	74:B1:3450:OHX:N1	2.88	0.41
30:B2:28:C:O2	30:B2:28:C:C2'	2.67	0.41
30:B2:106:U:O2'	30:B2:107:C:OP2	2.34	0.41
31:B3:24:G:C2'	31:B3:25:G:O5'	2.68	0.41
31:B3:40:A:N6	31:B3:104:A:C4	2.89	0.41
31:B3:83:C:H3'	31:B3:83:C:H6	1.85	0.41
32:BA:138:VAL:O	32:BA:139:SER:C	2.63	0.41
33:BB:115:ASN:O	33:BB:125:ALA:HB3	2.19	0.41
34:BC:27:ALA:CB	34:BC:219:ALA:HA	2.50	0.41
34:BC:251:CYS:O	34:BC:252:ILE:CB	2.68	0.41
36:BE:50:ARG:HA	36:BE:145:PHE:N	2.35	0.41
36:BE:114:GLY:H	36:BE:117:GLU:H	1.67	0.41
36:BE:183:TRP:CB	36:BE:190:ILE:N	2.84	0.41
38:BG:84:VAL:C	38:BG:86:VAL:N	2.79	0.41
39:BH:231:LYS:HA	39:BH:232:HIS:C	2.46	0.41
42:BK:77:GLU:O	42:BK:81:GLU:N	2.53	0.41
43:BN:58:ILE:CA	43:BN:59:ASN:CB	2.99	0.41
46:BQ:86:LYS:O	46:BQ:87:SER:C	2.63	0.41
50:BU:81:GLN:O	50:BU:82:ALA:CB	2.68	0.41
50:BU:113:ALA:HB1	50:BU:132:ASN:O	2.20	0.41
51:BV:18:GLY:CA	51:BV:32:GLN:HA	2.50	0.41
54:BY:68:PHE:C	54:BY:110:GLY:HA2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Bq:10:UNK:C	70:Bq:12:UNK:N	2.81	0.41
70:Bq:12:UNK:O	70:Bq:13:UNK:O	2.39	0.41
1:C1:113:U:H5"	1:C1:114:C:C5'	2.35	0.41
1:C1:158:U:O2'	1:C1:159:U:O5'	2.38	0.41
1:C1:223:U:C5'	1:C1:224:C:OP2	2.68	0.41
1:C1:328:A:N3	1:C1:329:G:C8	2.89	0.41
1:C1:331:A:O3'	1:C1:1676:U:C5	2.73	0.41
1:C1:410:A:N1	1:C1:411:C:N3	2.68	0.41
1:C1:482:U:C2'	1:C1:483:A:C8	3.00	0.41
1:C1:569:C:H3'	1:C1:570:A:H8	1.85	0.41
1:C1:699:U:O2	1:C1:740:A:N1	2.54	0.41
1:C1:806:A:H2'	1:C1:807:A:C8	2.46	0.41
1:C1:848:C:C2	1:C1:849:C:C5	3.09	0.41
1:C1:866:G:C2	1:C1:867:G:N7	2.89	0.41
1:C1:927:C:H2'	1:C1:928:U:C6	2.56	0.41
1:C1:971:A:H61	29:D1:846:A:N6	2.17	0.41
1:C1:1006:C:C6	1:C1:1007:C:C5	2.98	0.41
1:C1:1007:C:C5'	1:C1:1008:G:OP2	2.64	0.41
1:C1:1066:C:H2'	1:C1:1066:C:O2	2.20	0.41
1:C1:1118:G:C2	1:C1:1119:G:C5	3.08	0.41
1:C1:1159:C:H6	1:C1:1159:C:C5'	2.34	0.41
1:C1:1171:A:C3'	1:C1:1172:G:H8	2.34	0.41
1:C1:1241:G:H3'	1:C1:1242:A:H5"	2.02	0.41
1:C1:1282:U:O2	1:C1:1282:U:H2'	2.19	0.41
1:C1:1285:U:C4'	1:C1:1286:U:OP1	2.63	0.41
1:C1:1347:U:C2	1:C1:1349:G:O6	2.73	0.41
1:C1:1431:C:H4'	1:C1:1432:U:H5'	2.01	0.41
1:C1:1477:G:H2'	1:C1:1478:G:H8	1.84	0.41
1:C1:1623:C:C2	1:C1:1624:C:C6	3.08	0.41
1:C1:1631:A:N6	1:C1:1635:A:O2'	2.52	0.41
1:C1:1717:G:H2'	1:C1:1717:G:N3	2.36	0.41
1:C1:1752:U:C2	1:C1:1753:A:C8	3.09	0.41
2:CA:68:PRO:C	2:CA:70:PRO:N	2.75	0.41
5:CD:198:LEU:C	5:CD:201:ALA:HB3	2.46	0.41
6:CE:142:ASN:O	6:CE:143:ILE:C	2.63	0.41
9:CH:89:THR:HA	9:CH:90:ARG:CB	2.50	0.41
10:CI:19:GLY:CA	13:CL:98:TYR:HA	2.49	0.41
17:CP:118:PRO:O	17:CP:120:VAL:N	2.53	0.41
29:D1:14:U:H3'	29:D1:15:C:H5"	2.02	0.41
29:D1:25:U:H2'	29:D1:26:A:H8	1.84	0.41
29:D1:107:A:C8	29:D1:107:A:O5'	2.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:157:A:O2'	29:D1:158:G:C5	2.71	0.41
29:D1:189:G:H2'	29:D1:224:C:OP1	2.20	0.41
29:D1:292:U:H5"	29:D1:293:C:OP2	2.20	0.41
29:D1:307:A:H2'	29:D1:308:A:C5'	2.50	0.41
29:D1:412:G:C6	29:D1:413:U:C4	3.08	0.41
29:D1:602:A:C2	29:D1:603:A:N6	2.88	0.41
29:D1:643:U:H2'	29:D1:644:G:O4'	2.20	0.41
29:D1:697:A:H8	29:D1:698:U:H3'	1.86	0.41
29:D1:771:A:C6	29:D1:772:U:N3	2.88	0.41
29:D1:784:A:H2'	29:D1:784:A:N3	2.35	0.41
29:D1:795:G:H2'	29:D1:796:U:O5'	2.20	0.41
29:D1:799:G:C2	29:D1:801:A:C6	3.08	0.41
29:D1:811:U:C2	29:D1:812:G:N7	2.88	0.41
29:D1:835:G:HO2'	29:D1:836:A:P	2.43	0.41
29:D1:947:G:C6	29:D1:1373:A:N1	2.89	0.41
29:D1:948:C:O2	29:D1:948:C:H2'	2.20	0.41
29:D1:1029:G:C2'	29:D1:1030:A:H5'	2.50	0.41
29:D1:1073:U:H5"	29:D1:1074:U:OP2	2.20	0.41
29:D1:1377:G:N2	29:D1:1430:U:O2	2.40	0.41
29:D1:1445:U:C4	29:D1:1446:A:N7	2.88	0.41
29:D1:1574:C:H2'	29:D1:1574:C:O2	2.20	0.41
29:D1:1671:C:O2	29:D1:1671:C:C2'	2.68	0.41
29:D1:1679:A:N1	29:D1:1680:G:N7	2.68	0.41
29:D1:1725:C:C2	29:D1:1726:C:C5	3.09	0.41
29:D1:1744:G:H2'	29:D1:1745:C:C6	2.55	0.41
29:D1:1797:A:C6	29:D1:1798:A:C6	3.08	0.41
29:D1:1882:G:C5	29:D1:1883:A:N7	2.88	0.41
29:D1:1908:A:N7	29:D1:1909:A:C5	2.89	0.41
29:D1:1928:G:C4	29:D1:1929:G:C8	3.08	0.41
29:D1:2146:C:C2'	29:D1:2147:A:H5"	2.50	0.41
29:D1:2273:G:H1'	29:D1:2274:U:C5	2.53	0.41
29:D1:2355:G:H3'	29:D1:2355:G:H8	1.85	0.41
29:D1:2474:G:H2'	29:D1:2475:G:C8	2.55	0.41
29:D1:2564:G:H2'	29:D1:2565:U:O4'	2.20	0.41
29:D1:2614:G:C4	29:D1:2797:C:H5	2.32	0.41
29:D1:2972:G:C2'	29:D1:2973:G:O5'	2.68	0.41
29:D1:3189:G:H2'	29:D1:3190:C:O4'	2.20	0.41
29:D1:3194:C:H3'	29:D1:3195:U:C5'	2.50	0.41
29:D1:3200:G:N1	29:D1:3201:C:N4	2.68	0.41
29:D1:3207:U:C3'	29:D1:3208:G:C5'	2.98	0.41
29:D1:3210:A:N9	29:D1:3211:C:C5	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3250:U:C2'	29:D1:3251:U:O5'	2.68	0.41
29:D1:3273:A:C4	29:D1:3274:A:C8	3.09	0.41
29:D1:3322:A:N6	29:D1:3323:A:H62	2.18	0.41
30:D2:27:A:N3	30:D2:27:A:H2'	2.35	0.41
30:D2:27:A:N1	30:D2:54:U:O4	2.53	0.41
30:D2:37:G:H21	30:D2:44:C:N4	2.18	0.41
30:D2:77:G:N2	30:D2:101:G:C5	2.88	0.41
33:DB:232:GLY:O	33:DB:233:GLN:O	2.38	0.41
34:DC:112:ASP:O	34:DC:113:GLU:O	2.38	0.41
37:DF:26:ARG:O	37:DF:27:PRO:C	2.63	0.41
40:DI:170:LYS:C	40:DI:172:ILE:N	2.75	0.41
45:DP:124:LEU:HA	45:DP:126:VAL:CB	2.50	0.41
48:DS:98:ARG:O	48:DS:101:VAL:N	2.53	0.41
49:DT:56:PHE:C	49:DT:58:GLN:N	2.74	0.41
52:DW:91:ASN:O	52:DW:92:LYS:CB	2.68	0.41
54:DY:28:HIS:C	54:DY:30:GLY:N	2.78	0.41
1:A1:14:C:H2'	1:A1:15:U:H6	1.85	0.41
1:A1:124:A:H2'	1:A1:124:A:N3	2.36	0.41
1:A1:172:C:C2	1:A1:173:A:C8	3.09	0.41
1:A1:194:U:C4'	1:A1:195:G:O5'	2.60	0.41
1:A1:214:G:N1	1:A1:249:U:H4'	2.35	0.41
1:A1:221:A:N7	1:A1:832:U:C4	2.88	0.41
1:A1:243:G:N2	1:A1:251:A:C4	2.88	0.41
1:A1:250:C:O2'	1:A1:251:A:O4'	2.37	0.41
1:A1:296:U:C6	1:A1:297:U:C5	3.09	0.41
1:A1:391:A:C2	1:A1:392:G:C4	3.08	0.41
1:A1:413:U:N3	1:A1:421:A:C2	2.88	0.41
1:A1:498:G:C1'	1:A1:499:U:H5	2.28	0.41
1:A1:552:G:C6	1:A1:553:G:N1	2.89	0.41
1:A1:577:G:H3'	1:A1:577:G:OP1	2.21	0.41
1:A1:737:A:C2	1:A1:738:G:C6	3.09	0.41
1:A1:812:A:C6	1:A1:859:A:C5	3.08	0.41
1:A1:823:G:O2'	1:A1:824:G:P	2.79	0.41
1:A1:868:G:O6	1:A1:960:U:O4	2.38	0.41
1:A1:926:A:C5	1:A1:927:C:C5	3.09	0.41
1:A1:958:U:H2'	1:A1:960:U:OP1	2.19	0.41
1:A1:1000:C:H2'	1:A1:1000:C:H6	1.69	0.41
1:A1:1042:G:C4	1:A1:1043:A:C8	3.08	0.41
1:A1:1190:C:N3	1:A1:1194:A:C2	2.89	0.41
1:A1:1207:C:O2	1:A1:1455:G:C2	2.73	0.41
1:A1:1248:C:O2'	1:A1:1249:U:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1433:G:HO2'	1:A1:1434:U:H6	1.65	0.41
1:A1:1556:A:C2	1:A1:1560:U:H1'	2.56	0.41
1:A1:1631:A:H5'	1:A1:1764:C:C1'	2.48	0.41
1:A1:1742:U:C4	1:A1:1743:U:C5	3.09	0.41
3:AB:45:VAL:O	3:AB:46:LYS:CB	2.68	0.41
3:AB:68:ILE:O	3:AB:69:ILE:C	2.63	0.41
4:AC:98:ALA:C	4:AC:100:ALA:H	2.28	0.41
4:AC:174:HIS:O	4:AC:175:VAL:CB	2.68	0.41
4:AC:191:ASP:C	4:AC:193:ALA:N	2.77	0.41
8:AG:42:ARG:O	8:AG:45:LEU:N	2.54	0.41
8:AG:150:VAL:O	8:AG:151:ASN:O	2.39	0.41
9:AH:88:GLY:HA2	9:AH:89:THR:HA	1.63	0.41
24:Ac:10:UNK:CB	24:Ac:64:UNK:HA	2.50	0.41
29:B1:5:G:O6	31:B3:154:C:C4	2.74	0.41
29:B1:53:G:C4	29:B1:54:C:C6	3.09	0.41
29:B1:80:G:N3	29:B1:81:C:C6	2.89	0.41
29:B1:109:A:C5	29:B1:323:A:C2	3.08	0.41
29:B1:122:A:H1'	29:B1:150:A:C4'	2.49	0.41
29:B1:199:A:N1	29:B1:201:A:H1'	2.36	0.41
29:B1:274:G:C5	29:B1:275:U:C5	3.08	0.41
29:B1:384:A:N7	29:B1:385:A:N7	2.69	0.41
29:B1:395:A:H2'	29:B1:396:A:C8	2.56	0.41
29:B1:422:A:C1'	29:B1:423:A:O5'	2.67	0.41
29:B1:423:A:N6	29:B1:637:C:OP1	2.51	0.41
29:B1:424:G:H2'	29:B1:425:G:OP1	2.20	0.41
29:B1:440:A:H5'	29:B1:441:U:H5'	2.02	0.41
29:B1:597:G:HO2'	29:B1:598:A:C4'	2.34	0.41
29:B1:601:U:C2	29:B1:602:A:H8	2.39	0.41
29:B1:688:G:O5'	29:B1:688:G:H8	2.04	0.41
29:B1:812:G:C4	29:B1:813:G:C8	3.08	0.41
29:B1:913:A:H8	29:B1:913:A:H5'	1.85	0.41
29:B1:974:G:C2	29:B1:975:C:C6	3.08	0.41
29:B1:1054:A:H5"	29:B1:2637:A:N6	2.36	0.41
29:B1:1114:U:C5	29:B1:1115:G:C2	3.09	0.41
29:B1:1130:A:O2'	29:B1:1132:C:H5'	2.21	0.41
29:B1:1169:A:H5'	29:B1:1169:A:C8	2.56	0.41
29:B1:1185:C:O5'	29:B1:1185:C:H6	2.04	0.41
29:B1:1246:G:H1'	29:B1:1264:G:C8	2.56	0.41
29:B1:1246:G:N1	29:B1:1265:U:C5	2.89	0.41
29:B1:1337:A:N3	29:B1:1338:C:C6	2.88	0.41
29:B1:1410:U:C6	29:B1:1410:U:H3'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1551:C:OP1	29:B1:1551:C:H6	2.04	0.41
29:B1:1602:A:N6	29:B1:1603:A:N6	2.68	0.41
29:B1:1704:A:N6	29:B1:1739:U:H3	2.18	0.41
29:B1:1750:A:C2'	29:B1:1751:G:OP1	2.69	0.41
29:B1:1804:A:C6	29:B1:1805:C:C4	3.08	0.41
29:B1:1812:G:N2	29:B1:1813:A:N3	2.60	0.41
29:B1:1909:A:H2'	29:B1:1910:A:O4'	2.21	0.41
29:B1:1925:U:C5	29:B1:2320:A:H1'	2.56	0.41
29:B1:2144:A:C4	29:B1:2281:A:N1	2.89	0.41
29:B1:2155:G:C5	29:B1:2156:C:C4	3.08	0.41
29:B1:2157:G:C2	29:B1:2178:A:OP2	2.74	0.41
29:B1:2173:U:C6	29:B1:2174:G:N7	2.88	0.41
29:B1:2178:A:H5'	33:BB:128:ARG:CB	2.51	0.41
29:B1:2273:G:O2'	29:B1:2274:U:P	2.78	0.41
29:B1:2308:C:OP1	29:B1:2309:A:H3'	2.20	0.41
29:B1:2389:C:O2'	29:B1:2390:A:H5'	2.20	0.41
29:B1:2640:A:C5	29:B1:2641:U:O4	2.74	0.41
29:B1:2706:G:C6	29:B1:2707:C:N4	2.88	0.41
29:B1:2759:U:H5"	29:B1:2760:C:OP1	2.21	0.41
29:B1:2769:A:C6	29:B1:2770:G:N7	2.88	0.41
29:B1:2807:U:C2'	29:B1:2808:A:H5"	2.47	0.41
29:B1:2809:C:O2'	29:B1:2810:C:OP1	2.36	0.41
29:B1:3005:A:C2'	29:B1:3140:G:H22	2.34	0.41
29:B1:3112:G:C2	29:B1:3121:U:C4	3.08	0.41
29:B1:3209:A:C5	29:B1:3210:A:N6	2.89	0.41
29:B1:3278:C:C2	29:B1:3279:A:N7	2.88	0.41
29:B1:3316:A:N7	29:B1:3320:A:C6	2.88	0.41
29:B1:3342:A:C3'	29:B1:3343:G:O4'	2.69	0.41
30:B2:43:U:N3	30:B2:44:C:C6	2.88	0.41
31:B3:54:A:N1	31:B3:55:U:C2	2.88	0.41
31:B3:103:G:C2	31:B3:105:A:N6	2.88	0.41
32:BA:78:LYS:C	32:BA:80:CYS:H	2.28	0.41
34:BC:39:LYS:C	34:BC:41:VAL:N	2.76	0.41
34:BC:108:GLU:O	34:BC:109:HIS:O	2.39	0.41
34:BC:342:LEU:O	34:BC:343:TYR:CB	2.69	0.41
35:BD:23:PRO:O	35:BD:24:ALA:HB2	2.20	0.41
35:BD:169:LEU:O	35:BD:174:ALA:HB3	2.20	0.41
38:BG:45:LEU:C	38:BG:47:ARG:H	2.26	0.41
44:BO:82:GLY:HA2	44:BO:86:ASN:CB	2.50	0.41
45:BP:176:LYS:O	45:BP:179:ALA:C	2.63	0.41
46:BQ:51:VAL:CB	46:BQ:57:ALA:HA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:82:VAL:O	47:BR:83:VAL:C	2.63	0.41
48:BS:121:HIS:O	48:BS:123:LEU:N	2.53	0.41
49:BT:48:ILE:O	49:BT:49:GLN:CB	2.69	0.41
52:BW:81:ILE:CA	52:BW:124:VAL:O	2.69	0.41
59:Bd:59:THR:O	59:Bd:61:THR:N	2.51	0.41
1:C1:148:A:H3'	1:C1:149:C:H6	1.86	0.41
1:C1:149:C:C2'	1:C1:150:U:C6	3.03	0.41
1:C1:149:C:N3	1:C1:150:U:C4	2.88	0.41
1:C1:487:G:O2'	1:C1:488:G:H8	2.03	0.41
1:C1:610:G:C2	1:C1:614:C:C4	3.08	0.41
1:C1:627:C:H5"	1:C1:628:G:OP2	2.20	0.41
1:C1:721:U:H4'	1:C1:722:G:OP1	2.21	0.41
1:C1:733:A:H5"	1:C1:734:A:H8	1.85	0.41
1:C1:770:A:OP2	74:C1:1985:OHX:N3	2.54	0.41
1:C1:868:G:O6	74:C1:1914:OHX:N3	2.53	0.41
1:C1:938:G:C8	1:C1:938:G:C3'	3.03	0.41
1:C1:1077:C:H2'	1:C1:1078:C:O5'	2.20	0.41
1:C1:1140:G:N1	1:C1:1141:G:N7	2.69	0.41
1:C1:1252:C:H2'	1:C1:1253:U:O5'	2.20	0.41
1:C1:1310:U:H2'	1:C1:1311:U:C6	2.54	0.41
1:C1:1365:C:C6	1:C1:1365:C:H3'	2.56	0.41
1:C1:1383:G:C6	1:C1:1384:A:C6	3.08	0.41
1:C1:1428:G:C2	1:C1:1429:G:C8	3.08	0.41
1:C1:1481:C:H5	1:C1:1482:C:O2	2.04	0.41
1:C1:1482:C:O2'	1:C1:1483:A:P	2.78	0.41
1:C1:1540:G:H2'	1:C1:1541:G:H5'	1.98	0.41
1:C1:1585:U:C2'	1:C1:1586:A:H5'	2.51	0.41
3:CB:230:TRP:C	3:CB:232:GLU:N	2.78	0.41
5:CD:107:LYS:O	5:CD:108:LEU:O	2.39	0.41
6:CE:35:GLY:C	6:CE:37:LYS:N	2.78	0.41
11:CJ:133:GLY:O	11:CJ:134:ALA:HB3	2.19	0.41
15:CN:49:ASN:O	15:CN:50:LEU:O	2.39	0.41
15:CN:101:LYS:C	15:CN:103:ILE:N	2.79	0.41
19:CR:8:THR:O	19:CR:9:LEU:C	2.63	0.41
29:D1:78:U:H3	29:D1:325:A:N6	2.12	0.41
29:D1:117:U:H3'	29:D1:117:U:H6	1.85	0.41
29:D1:120:G:O2'	29:D1:150:A:C6	2.73	0.41
29:D1:158:G:C8	29:D1:158:G:H3'	2.54	0.41
29:D1:232:G:H2'	29:D1:233:C:O4'	2.20	0.41
29:D1:234:G:N3	29:D1:234:G:H2'	2.35	0.41
29:D1:277:G:C6	29:D1:278:U:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:285:A:C2	29:D1:305:U:C4’	3.03	0.41
29:D1:295:A:N7	29:D1:296:A:C4	2.88	0.41
29:D1:500:C:H2’	29:D1:501:A:H5’	2.02	0.41
29:D1:582:G:C6	29:D1:583:G:C8	3.08	0.41
29:D1:722:G:N7	74:D1:3551:OHX:N4	2.68	0.41
29:D1:809:G:H2’	29:D1:809:G:N3	2.36	0.41
29:D1:866:A:C8	29:D1:867:G:N7	2.86	0.41
29:D1:887:G:C5	29:D1:888:A:N7	2.89	0.41
29:D1:950:G:H2’	29:D1:1367:G:N2	2.36	0.41
29:D1:1023:C:O5’	29:D1:1024:G:H5”	2.20	0.41
29:D1:1051:U:O2	29:D1:1051:U:C2’	2.63	0.41
29:D1:1237:G:P	29:D1:1237:G:H8	2.44	0.41
29:D1:1281:G:C2	29:D1:1282:G:N7	2.89	0.41
29:D1:1310:G:H5’	29:D1:1310:G:C8	2.46	0.41
29:D1:1390:A:N6	29:D1:1418:A:O2’	2.54	0.41
29:D1:1405:U:O2	57:Db:55:ILE:N	2.54	0.41
29:D1:1452:A:N3	29:D1:2347:U:C4’	2.84	0.41
29:D1:1453:A:H2’	29:D1:1878:G:N1	2.36	0.41
29:D1:1460:A:C6	29:D1:1473:G:C6	3.09	0.41
29:D1:1469:C:O2’	29:D1:1470:U:OP1	2.36	0.41
29:D1:1689:U:O2’	29:D1:1690:C:H5’	2.21	0.41
29:D1:1921:A:C1’	29:D1:1932:A:N6	2.84	0.41
29:D1:2102:U:O2’	29:D1:2103:U:H5’	2.21	0.41
29:D1:2152:A:C1’	29:D1:2243:A:C2	3.04	0.41
29:D1:2262:A:H5”	29:D1:2263:C:C5’	2.51	0.41
29:D1:2289:U:H2’	29:D1:2290:C:C5’	2.44	0.41
29:D1:2349:U:O2’	29:D1:3307:A:H1’	2.21	0.41
29:D1:2383:C:N1	29:D1:2384:A:C8	2.89	0.41
29:D1:2390:A:C6	29:D1:2391:G:C6	3.08	0.41
29:D1:2618:G:O4’	29:D1:2619:G:OP2	2.38	0.41
29:D1:2792:A:O5’	29:D1:2792:A:C8	2.58	0.41
29:D1:2800:G:OP2	29:D1:2801:A:OP1	2.39	0.41
29:D1:2846:U:H2’	29:D1:2847:A:OP2	2.20	0.41
29:D1:2851:A:C8	29:D1:2851:A:H5”	2.56	0.41
29:D1:2893:C:C2’	29:D1:2894:C:O5’	2.68	0.41
29:D1:2985:C:H2’	29:D1:2986:U:O5’	2.21	0.41
29:D1:3110:C:C2’	29:D1:3111:U:H5’	2.50	0.41
29:D1:3219:G:C5	29:D1:3257:C:C3’	3.02	0.41
29:D1:3221:C:C4	29:D1:3222:U:C5	3.06	0.41
29:D1:3222:U:H2’	29:D1:3223:A:O4’	2.21	0.41
29:D1:3235:C:C2’	29:D1:3236:U:O5’	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3322:A:C4	29:D1:3323:A:C8	3.09	0.41
30:D2:26:C:HO2'	30:D2:27:A:C4'	2.33	0.41
30:D2:64:A:C2	74:D2:205:OHX:N4	2.88	0.41
30:D2:90:U:C5	30:D2:91:G:N7	2.89	0.41
30:D2:104:A:C5	30:D2:105:C:C6	3.07	0.41
31:D3:71:A:C2	31:D3:72:A:H2	2.38	0.41
31:D3:106:C:C1'	31:D3:138:A:C8	3.03	0.41
32:DA:153:SER:O	32:DA:154:THR:O	2.37	0.41
33:DB:211:HIS:O	33:DB:212:GLY:C	2.64	0.41
33:DB:215:ASN:C	33:DB:216:HIS:O	2.63	0.41
34:DC:272:TYR:O	34:DC:273:HIS:O	2.39	0.41
35:DD:35:VAL:O	35:DD:36:HIS:C	2.64	0.41
35:DD:179:LEU:O	35:DD:180:LYS:C	2.63	0.41
36:DE:114:GLY:N	36:DE:117:GLU:H	2.19	0.41
36:DE:262:LYS:O	36:DE:264:GLN:N	2.49	0.41
38:DG:134:VAL:O	38:DG:135:ALA:HB2	2.19	0.41
38:DG:163:LEU:C	38:DG:165:ASP:H	2.28	0.41
40:DI:51:GLN:CB	40:DI:52:LEU:CA	2.99	0.41
41:DJ:212:GLU:O	41:DJ:214:PRO:N	2.53	0.41
42:DK:7:ASN:CA	42:DK:8:PRO:CB	2.96	0.41
46:DQ:46:LYS:O	46:DQ:50:GLN:N	2.50	0.41
51:DV:5:ILE:O	51:DV:11:ALA:O	2.39	0.41
53:DX:112:ASP:O	53:DX:113:LYS:C	2.62	0.41
58:Dc:48:ARG:O	58:Dc:49:LYS:C	2.62	0.41
61:Df:36:PHE:O	61:Df:37:ALA:C	2.64	0.41
62:Dg:25:GLN:O	62:Dg:27:LYS:N	2.53	0.41
1:A1:12:U:C2	1:A1:1143:A:C2	3.09	0.41
1:A1:13:C:C4	1:A1:14:C:C5	3.09	0.41
1:A1:51:A:C6	1:A1:52:U:C2	3.09	0.41
1:A1:80:A:C2	1:A1:81:G:C5	3.08	0.41
1:A1:88:U:H2'	1:A1:89:G:H5'	2.03	0.41
1:A1:103:A:N7	1:A1:360:A:C6	2.89	0.41
1:A1:111:U:O4	1:A1:112:A:N6	2.53	0.41
1:A1:143:G:H5"	1:A1:144:U:OP2	2.20	0.41
1:A1:144:U:C4	1:A1:145:A:C8	3.08	0.41
1:A1:198:A:C1'	1:A1:199:G:OP1	2.68	0.41
1:A1:210:A:C6	1:A1:256:A:C6	3.08	0.41
1:A1:312:A:C6	1:A1:315:A:N7	2.89	0.41
1:A1:328:A:C2	1:A1:329:G:C5	3.08	0.41
1:A1:332:U:O2	1:A1:332:U:H2'	2.20	0.41
1:A1:469:C:N3	1:A1:469:C:P	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:519:C:H2'	1:A1:520:A:O5'	2.21	0.41
1:A1:536:C:C4	1:A1:537:G:N7	2.89	0.41
1:A1:647:G:C2	1:A1:648:G:N1	2.87	0.41
1:A1:813:U:O2'	1:A1:814:A:OP1	2.38	0.41
1:A1:859:A:C4'	1:A1:860:U:OP2	2.67	0.41
1:A1:1087:A:C5	1:A1:1088:A:C5	3.08	0.41
1:A1:1101:G:H2'	1:A1:1102:G:O5'	2.21	0.41
1:A1:1124:A:H2'	1:A1:1125:A:O4'	2.20	0.41
1:A1:1146:G:C6	1:A1:1147:A:C6	3.09	0.41
1:A1:1287:A:N3	1:A1:1288:G:C1'	2.81	0.41
1:A1:1297:G:N2	1:A1:1301:U:C6	2.88	0.41
1:A1:1297:G:C8	1:A1:1297:G:C3'	3.03	0.41
1:A1:1308:G:C4	1:A1:1309:C:C6	3.09	0.41
1:A1:1342:C:O2'	1:A1:1343:U:H5'	2.21	0.41
1:A1:1348:A:N3	1:A1:1379:C:C6	2.88	0.41
1:A1:1486:G:H21	1:A1:1592:A:H5"	1.85	0.41
1:A1:1587:A:C4	1:A1:1588:G:C8	3.09	0.41
1:A1:1598:U:H2'	1:A1:1599:C:O5'	2.20	0.41
1:A1:1623:C:O2	1:A1:1623:C:C2'	2.68	0.41
1:A1:1642:G:H1'	1:A1:1782:A:O2'	2.20	0.41
1:A1:1679:G:O6	1:A1:1724:U:O2	2.38	0.41
1:A1:1750:A:N7	1:A1:1751:C:C5	2.88	0.41
1:A1:1763:A:C3'	1:A1:1764:C:C5'	2.88	0.41
1:A1:1763:A:H3'	1:A1:1764:C:C5'	2.43	0.41
1:A1:1780:G:C5	1:A1:1781:A:C5	3.09	0.41
3:AB:91:ARG:O	3:AB:92:ALA:HB3	2.20	0.41
15:AN:21:LYS:O	15:AN:95:ALA:HA	2.21	0.41
21:AT:167:VAL:O	21:AT:182:ASN:HA	2.20	0.41
29:B1:18:G:C2	29:B1:19:U:O2	2.74	0.41
29:B1:20:A:C4'	29:B1:21:G:OP1	2.68	0.41
29:B1:21:G:H2'	29:B1:21:G:N3	2.36	0.41
29:B1:89:A:H8	29:B1:89:A:O5'	2.04	0.41
29:B1:107:A:C2	29:B1:108:A:C2	3.08	0.41
29:B1:263:C:P	29:B1:264:G:OP2	2.78	0.41
29:B1:296:A:C6	29:B1:297:G:N2	2.89	0.41
29:B1:370:U:O2	29:B1:403:C:C4	2.73	0.41
29:B1:401:U:O2	29:B1:401:U:O4'	2.39	0.41
29:B1:571:U:H2'	29:B1:572:A:H5'	2.00	0.41
29:B1:649:A:H2'	29:B1:649:A:N3	2.36	0.41
29:B1:723:U:H2'	29:B1:724:U:O5'	2.19	0.41
29:B1:733:G:C2	29:B1:736:A:N1	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:822:G:C4	29:B1:823:C:C5	3.08	0.41
29:B1:913:A:H2'	29:B1:914:A:OP2	2.20	0.41
29:B1:1033:U:H2'	29:B1:1033:U:O2	2.21	0.41
29:B1:1063:G:O2'	29:B1:1064:A:O5'	2.39	0.41
29:B1:1074:U:H4'	29:B1:1075:A:OP2	2.19	0.41
29:B1:1199:C:N1	74:B1:3587:OHX:N6	2.68	0.41
29:B1:1246:G:O6	29:B1:1266:G:O6	2.38	0.41
29:B1:1289:G:C2	29:B1:1290:A:C8	3.09	0.41
29:B1:1325:U:O4	29:B1:1326:A:N6	2.54	0.41
29:B1:1330:A:C8	29:B1:1330:A:C3'	3.04	0.41
29:B1:1357:G:N3	29:B1:1358:C:C6	2.88	0.41
29:B1:1428:A:C5	29:B1:1430:U:C5	3.09	0.41
29:B1:1471:U:C2	29:B1:1472:U:C6	3.08	0.41
29:B1:1532:C:C2'	29:B1:1533:U:C6	2.92	0.41
29:B1:1539:A:C3'	29:B1:1540:U:H5'	2.51	0.41
29:B1:1542:G:C2	29:B1:1543:G:C4	3.09	0.41
29:B1:1554:U:H4'	29:B1:1580:A:N6	2.36	0.41
29:B1:1604:G:C8	29:B1:1605:A:H5"	2.47	0.41
29:B1:1629:U:C5	29:B1:1630:U:C6	3.09	0.41
29:B1:1689:U:HO2'	29:B1:1690:C:H5'	1.86	0.41
29:B1:1895:A:N6	29:B1:2341:A:N6	2.69	0.41
29:B1:1906:G:H21	29:B1:1909:A:H61	1.67	0.41
29:B1:2143:A:C5	29:B1:2145:A:C5	3.08	0.41
29:B1:2213:A:C6	29:B1:2214:A:N6	2.89	0.41
29:B1:2262:A:H5"	29:B1:2263:C:OP2	2.21	0.41
29:B1:2309:A:H8	29:B1:2309:A:OP1	2.03	0.41
29:B1:2389:C:OP2	74:B1:3527:OHX:N5	2.53	0.41
29:B1:2649:A:N1	29:B1:2650:U:C5	2.88	0.41
29:B1:2674:A:N1	29:B1:2676:A:N7	2.69	0.41
29:B1:2675:C:H5	29:B1:2676:A:C5	2.37	0.41
29:B1:2707:C:O2'	29:B1:2708:C:C6	2.70	0.41
29:B1:2708:C:C2'	29:B1:2709:C:O5'	2.68	0.41
29:B1:2717:U:C6	29:B1:2717:U:H5'	2.55	0.41
29:B1:2856:G:C6	29:B1:2857:C:N4	2.89	0.41
29:B1:2880:U:O5'	29:B1:2880:U:H6	2.04	0.41
29:B1:3057:U:O2'	29:B1:3059:G:O5'	2.38	0.41
29:B1:3090:U:OP1	29:B1:3090:U:C4'	2.63	0.41
29:B1:3099:C:H2'	29:B1:3100:U:C5	2.56	0.41
29:B1:3244:A:O2'	29:B1:3245:A:P	2.78	0.41
29:B1:3274:A:O2'	29:B1:3275:U:H3'	2.20	0.41
29:B1:3296:A:N3	29:B1:3297:U:C1'	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3305:A:H1'	29:B1:3311:C:C2	2.55	0.41
30:B2:75:G:H5"	30:B2:76:A:OP2	2.21	0.41
31:B3:42:G:OP1	59:Bd:54:LYS:O	2.39	0.41
31:B3:64:U:C4	31:B3:97:A:N1	2.89	0.41
34:BC:261:MET:CA	34:BC:263:SER:O	2.69	0.41
35:BD:29:PRO:O	35:BD:124:SER:HA	2.21	0.41
36:BE:94:ASN:C	36:BE:96:ALA:N	2.76	0.41
40:BI:109:ALA:O	40:BI:110:LYS:O	2.38	0.41
40:BI:110:LYS:C	40:BI:111:PHE:O	2.63	0.41
42:BK:89:TYR:O	42:BK:168:ASP:CB	2.69	0.41
44:BO:114:ARG:O	44:BO:134:LEU:O	2.39	0.41
45:BP:14:HIS:HA	45:BP:123:ALA:HA	2.03	0.41
45:BP:79:ILE:O	45:BP:80:PHE:C	2.62	0.41
46:BQ:51:VAL:O	46:BQ:52:LEU:CB	2.68	0.41
47:BR:48:VAL:HA	47:BR:51:ALA:HB3	2.03	0.41
48:BS:12:ALA:HB2	48:BS:19:LYS:HA	2.01	0.41
57:Bb:3:SER:O	57:Bb:4:LEU:C	2.64	0.41
57:Bb:48:GLY:O	57:Bb:49:ASN:CB	2.69	0.41
57:Bb:70:GLY:O	57:Bb:71:HIS:CB	2.69	0.41
58:Bc:56:THR:C	58:Bc:58:ILE:N	2.78	0.41
1:C1:63:G:C5	1:C1:64:U:C6	3.08	0.41
1:C1:98:U:O4	74:C1:1999:OHX:N3	2.54	0.41
1:C1:152:U:C2	1:C1:163:G:N2	2.89	0.41
1:C1:194:U:C4'	1:C1:195:G:O5'	2.62	0.41
1:C1:204:G:C2	1:C1:205:U:C2	3.09	0.41
1:C1:265:A:C8	1:C1:290:G:N2	2.89	0.41
1:C1:335:U:C5	1:C1:336:G:C6	3.08	0.41
1:C1:445:A:C5	1:C1:526:A:N6	2.88	0.41
1:C1:756:A:H62	1:C1:757:A:N6	2.18	0.41
1:C1:795:U:C5	1:C1:796:A:C4	3.08	0.41
1:C1:809:A:N1	1:C1:810:G:C6	2.89	0.41
1:C1:837:G:C6	1:C1:838:G:C5	3.08	0.41
1:C1:859:A:C4'	1:C1:860:U:OP2	2.68	0.41
1:C1:913:G:H1'	1:C1:914:G:OP1	2.19	0.41
1:C1:1112:G:C8	1:C1:1113:A:C8	3.08	0.41
1:C1:1132:A:H2'	1:C1:1133:A:H8	1.86	0.41
1:C1:1242:A:O3'	1:C1:1243:G:O4'	2.39	0.41
1:C1:1274:C:C5	1:C1:1427:A:N7	2.86	0.41
1:C1:1280:C:C2	1:C1:1281:G:N7	2.88	0.41
1:C1:1285:U:C2	1:C1:1286:U:C5	3.09	0.41
1:C1:1297:G:C2	1:C1:1301:U:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1494:C:C2’	1:C1:1495:C:O5’	2.69	0.41
1:C1:1501:C:C2’	1:C1:1502:G:C5’	2.94	0.41
1:C1:1714:A:N1	1:C1:1715:G:N2	2.69	0.41
1:C1:1720:G:N7	1:C1:1721:A:N7	2.68	0.41
5:CD:44:ASN:O	5:CD:45:LYS:CB	2.68	0.41
6:CE:43:TYR:C	6:CE:45:ILE:N	2.78	0.41
7:CF:120:GLY:O	7:CF:121:ASP:O	2.39	0.41
8:CG:143:SER:O	8:CG:146:ALA:CA	2.69	0.41
13:CL:70:VAL:HA	13:CL:74:GLN:CB	2.51	0.41
19:CR:7:VAL:N	19:CR:51:ASN:C	2.78	0.41
29:D1:5:G:N2	31:D3:155:A:H1’	2.33	0.41
29:D1:36:C:C5	29:D1:37:U:C6	3.08	0.41
29:D1:41:G:C8	29:D1:42:C:H5	2.33	0.41
29:D1:71:A:C2’	29:D1:72:C:OP2	2.68	0.41
29:D1:113:C:C2	29:D1:319:A:C2	3.09	0.41
29:D1:158:G:H3’	29:D1:158:G:H8	1.85	0.41
29:D1:190:U:C6	29:D1:224:C:C1’	3.03	0.41
29:D1:192:C:H2’	29:D1:193:C:H6	1.85	0.41
29:D1:275:U:C2’	29:D1:276:U:H5’	2.49	0.41
29:D1:293:C:C4	29:D1:294:U:C2	3.09	0.41
29:D1:339:C:C2’	29:D1:340:C:C5’	2.98	0.41
29:D1:414:U:C2	29:D1:415:G:C8	3.08	0.41
29:D1:436:A:H2’	29:D1:437:G:O4’	2.20	0.41
29:D1:529:A:N6	29:D1:564:G:C5	2.89	0.41
29:D1:642:U:C6	29:D1:642:U:H3’	2.56	0.41
29:D1:666:A:C6	29:D1:667:C:C4	3.08	0.41
29:D1:743:C:C2’	29:D1:744:A:C5’	2.80	0.41
29:D1:767:U:C3’	29:D1:768:C:H4’	2.51	0.41
29:D1:955:U:C4	29:D1:967:A:C6	3.08	0.41
29:D1:1093:A:O2’	29:D1:1095:U:H1’	2.20	0.41
29:D1:1168:U:C2	29:D1:1332:A:H2	2.36	0.41
29:D1:1207:G:H5’	29:D1:1207:G:C8	2.56	0.41
29:D1:1338:C:O2	29:D1:1339:C:C6	2.73	0.41
29:D1:1543:G:C2	29:D1:1544:G:N7	2.88	0.41
29:D1:1610:G:C6	29:D1:1611:G:C5	3.09	0.41
29:D1:1625:A:H3’	29:D1:1626:U:O4’	2.20	0.41
29:D1:1626:U:C2’	29:D1:1627:U:O4’	2.69	0.41
29:D1:1707:A:C6	29:D1:1708:C:C4	3.09	0.41
29:D1:1799:A:N1	29:D1:1800:A:C6	2.88	0.41
29:D1:2099:A:H2	29:D1:2100:A:N7	2.19	0.41
29:D1:2158:A:C8	29:D1:2177:G:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2172:A:O2'	33:DB:10:LYS:O	2.25	0.41
29:D1:2412:G:C4	29:D1:2413:A:C8	3.08	0.41
29:D1:2523:A:H1'	29:D1:2524:A:P	2.61	0.41
29:D1:2610:G:C2	29:D1:2611:U:C2	3.08	0.41
29:D1:2614:G:N2	29:D1:2797:C:O4'	2.53	0.41
29:D1:2639:G:N3	29:D1:2639:G:H2'	2.36	0.41
29:D1:2723:U:O4	74:D1:3585:OHX:N5	2.53	0.41
29:D1:2724:U:O4	74:D1:3465:OHX:N1	2.54	0.41
29:D1:2762:A:C6	29:D1:2800:G:C8	3.09	0.41
29:D1:2912:G:H2'	29:D1:2913:C:C5'	2.51	0.41
29:D1:3044:G:H4'	34:DC:12:GLY:HA2	2.03	0.41
29:D1:3139:A:O2'	29:D1:3140:G:C4'	2.69	0.41
29:D1:3141:A:H5'	29:D1:3143:C:C1'	2.51	0.41
29:D1:3156:U:O2	29:D1:3156:U:C2'	2.68	0.41
29:D1:3157:U:N3	29:D1:3293:U:N1	2.67	0.41
29:D1:3276:G:C2'	29:D1:3277:U:O4'	2.68	0.41
29:D1:3344:A:C5	29:D1:3361:G:O6	2.73	0.41
29:D1:3353:G:C6	29:D1:3356:G:C6	3.09	0.41
30:D2:1:G:N3	30:D2:2:G:C8	2.89	0.41
30:D2:46:A:O3'	36:DE:157:ALA:HB1	2.20	0.41
30:D2:71:G:O2'	30:D2:72:A:H5'	2.19	0.41
31:D3:74:U:HO2'	31:D3:89:A:C1'	2.34	0.41
32:DA:73:ASP:C	32:DA:75:ASP:H	2.28	0.41
34:DC:67:PHE:O	34:DC:68:HIS:O	2.39	0.41
35:DD:22:LEU:O	35:DD:23:PRO:C	2.63	0.41
36:DE:38:THR:HA	36:DE:39:GLN:C	2.42	0.41
38:DG:43:ILE:O	38:DG:45:LEU:N	2.53	0.41
41:DJ:39:LYS:O	41:DJ:40:LYS:C	2.64	0.41
41:DJ:210:ILE:C	41:DJ:212:GLU:N	2.78	0.41
45:DP:124:LEU:CB	45:DP:127:LEU:N	2.84	0.41
46:DQ:127:ARG:CB	46:DQ:139:TYR:O	2.68	0.41
47:DR:59:ARG:O	47:DR:60:PRO:C	2.64	0.41
47:DR:62:VAL:O	47:DR:87:VAL:HA	2.21	0.41
48:DS:97:ARG:O	48:DS:98:ARG:C	2.62	0.41
49:DT:15:PHE:O	49:DT:16:GLN:O	2.37	0.41
49:DT:77:ASN:CA	49:DT:87:LYS:O	2.66	0.41
55:DZ:88:GLY:O	55:DZ:89:VAL:CB	2.68	0.41
56:Da:28:ARG:O	56:Da:29:ALA:C	2.64	0.41
56:Da:29:ALA:HB2	56:Da:64:VAL:O	2.20	0.41
57:Db:39:ASP:O	57:Db:40:SER:C	2.63	0.41
1:A1:16:G:O2'	1:A1:17:C:O4'	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:24:U:H6	1:A1:24:U:O5'	2.03	0.41
1:A1:28:A:C4	1:A1:29:U:C5	3.08	0.41
1:A1:81:G:N3	1:A1:81:G:H2'	2.36	0.41
1:A1:85:A:C4	1:A1:86:A:C8	3.09	0.41
1:A1:175:G:C8	74:A1:1915:OHX:N2	2.88	0.41
1:A1:195:G:C1'	1:A1:196:G:P	3.09	0.41
1:A1:212:U:H2'	1:A1:213:A:H5'	2.02	0.41
1:A1:265:A:C8	1:A1:290:G:N2	2.89	0.41
1:A1:287:G:O6	1:A1:288:A:N6	2.54	0.41
1:A1:341:A:N3	1:A1:342:C:C6	2.88	0.41
1:A1:425:A:C2'	1:A1:426:G:OP2	2.68	0.41
1:A1:518:A:H8	1:A1:519:C:H5'	1.85	0.41
1:A1:612:U:OP1	1:A1:1100:G:N2	2.53	0.41
1:A1:647:G:C6	1:A1:648:G:O6	2.74	0.41
1:A1:706:A:C5	1:A1:707:A:C5	3.09	0.41
1:A1:760:A:H2'	1:A1:761:G:C5'	2.47	0.41
1:A1:807:A:H8	1:A1:807:A:C5'	2.32	0.41
1:A1:820:U:HO2'	1:A1:821:U:P	2.42	0.41
1:A1:832:U:C3'	1:A1:833:U:C5'	2.97	0.41
1:A1:857:U:H3'	1:A1:857:U:C6	2.56	0.41
1:A1:884:A:H2'	1:A1:885:G:O4'	2.21	0.41
1:A1:891:A:N6	1:A1:922:G:O6	2.53	0.41
1:A1:1123:C:H5	1:A1:1124:A:C6	2.39	0.41
1:A1:1139:A:OP2	74:A1:1976:OHX:N5	2.54	0.41
1:A1:1231:U:O2'	1:A1:1232:U:P	2.79	0.41
1:A1:1324:G:N3	1:A1:1324:G:H2'	2.35	0.41
1:A1:1515:A:H61	15:AN:17:GLN:CB	2.33	0.41
1:A1:1521:G:N1	74:A1:1943:OHX:N6	2.67	0.41
1:A1:1631:A:N6	1:A1:1632:C:O2	2.53	0.41
1:A1:1665:U:H1'	1:A1:1737:G:N2	2.36	0.41
1:A1:1682:U:N3	1:A1:1683:C:N4	2.69	0.41
1:A1:1687:U:C5	1:A1:1688:U:C2	3.08	0.41
1:A1:1793:G:C2	1:A1:1794:A:H1'	2.55	0.41
5:AD:107:LYS:O	5:AD:108:LEU:O	2.39	0.41
9:AH:96:PRO:O	9:AH:97:GLY:C	2.63	0.41
22:Aa:6:UNK:C	22:Aa:8:UNK:N	2.82	0.41
29:B1:37:U:O2	29:B1:38:U:C5	2.74	0.41
29:B1:60:A:C8	29:B1:327:A:N1	2.89	0.41
29:B1:80:G:C6	29:B1:81:C:C5	3.08	0.41
29:B1:242:C:C2'	29:B1:243:G:O5'	2.68	0.41
29:B1:280:U:O2	29:B1:282:G:O2'	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:377:A:C6	29:B1:400:G:C5	3.08	0.41
29:B1:506:U:C2	29:B1:507:U:C5	3.08	0.41
29:B1:517:G:C8	29:B1:517:G:P	3.08	0.41
29:B1:583:G:C2	29:B1:584:G:C8	3.09	0.41
29:B1:592:A:C1'	29:B1:593:C:C1'	2.98	0.41
29:B1:642:U:H2'	29:B1:644:G:N7	2.35	0.41
29:B1:648:C:C6	29:B1:2374:C:O2'	2.61	0.41
29:B1:728:G:C4	29:B1:742:G:O6	2.73	0.41
29:B1:825:U:C6	29:B1:825:U:OP2	2.74	0.41
29:B1:853:G:C6	29:B1:854:G:C5	3.08	0.41
29:B1:873:C:H4'	29:B1:1908:A:H5'	2.02	0.41
29:B1:894:G:H1'	29:B1:895:A:N7	2.35	0.41
29:B1:919:U:OP1	29:B1:922:U:OP2	2.39	0.41
29:B1:944:C:C5	29:B1:1431:G:O6	2.73	0.41
29:B1:947:G:C2	29:B1:1373:A:C2	3.09	0.41
29:B1:948:C:C2	29:B1:949:C:C5	3.08	0.41
29:B1:1023:C:O5'	29:B1:1024:G:H5"	2.21	0.41
29:B1:1075:A:C8	29:B1:1076:C:C5	3.09	0.41
29:B1:1150:A:H3'	29:B1:1151:U:C6	2.56	0.41
29:B1:1225:A:C2	29:B1:1226:G:C1'	3.03	0.41
29:B1:1260:A:C2	29:B1:1278:A:C2	3.09	0.41
29:B1:1351:U:C3'	29:B1:1352:A:C8	3.04	0.41
29:B1:1362:G:C2'	29:B1:1363:A:H5'	2.48	0.41
29:B1:1383:G:C2'	29:B1:1384:U:H5'	2.51	0.41
29:B1:1587:A:C4	29:B1:1590:G:C6	3.09	0.41
29:B1:1653:G:C2'	29:B1:1654:A:C5'	2.93	0.41
29:B1:1684:U:C5	29:B1:1685:C:N3	2.89	0.41
29:B1:1760:A:H2'	29:B1:1761:C:H5'	2.02	0.41
29:B1:2154:U:H4'	33:BB:239:ALA:CB	2.50	0.41
29:B1:2173:U:C2'	29:B1:2174:G:OP1	2.69	0.41
29:B1:2191:U:C4	29:B1:2192:C:C4	3.08	0.41
29:B1:2194:G:N9	29:B1:2274:U:O2	2.53	0.41
29:B1:2210:G:C5	29:B1:2211:U:C5	3.08	0.41
29:B1:2213:A:C6	29:B1:2214:A:C6	3.09	0.41
29:B1:2515:A:C6	29:B1:2593:A:C5	3.08	0.41
29:B1:2608:G:C4	29:B1:2609:A:C8	3.08	0.41
29:B1:2608:G:C2	29:B1:2609:A:C5	3.08	0.41
29:B1:2696:A:N1	29:B1:2758:A:C5	2.89	0.41
29:B1:3126:C:H2'	29:B1:3127:A:O5'	2.21	0.41
29:B1:3152:U:O2'	29:B1:3153:U:C5	2.70	0.41
29:B1:3194:C:H3'	29:B1:3195:U:C5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3209:A:H5"	29:B1:3210:A:OP2	2.21	0.41
29:B1:3305:A:C5	29:B1:3306:U:C2	3.08	0.41
30:B2:69:C:N3	30:B2:70:U:C4	2.89	0.41
30:B2:74:C:C5	30:B2:75:G:N7	2.89	0.41
30:B2:79:A:C5	30:B2:102:A:N7	2.88	0.41
30:B2:93:C:C2	30:B2:94:C:C6	3.08	0.41
31:B3:8:C:N1	31:B3:9:A:C8	2.89	0.41
31:B3:71:A:C2	31:B3:72:A:H2	2.38	0.41
31:B3:90:U:H2'	31:B3:91:C:H6	1.83	0.41
31:B3:113:U:O2'	31:B3:114:G:OP1	2.35	0.41
33:BB:81:GLY:N	62:Bg:65:ALA:HB2	2.35	0.41
34:BC:41:VAL:CB	34:BC:186:GLY:N	2.84	0.41
34:BC:218:ILE:HA	34:BC:276:THR:HA	2.03	0.41
35:BD:53:SER:O	35:BD:54:GLU:C	2.63	0.41
36:BE:217:GLU:HA	36:BE:220:SER:CB	2.50	0.41
37:BF:16:ALA:C	37:BF:18:LEU:N	2.75	0.41
38:BG:75:TYR:CB	38:BG:76:TYR:CB	2.98	0.41
41:BJ:172:GLY:C	41:BJ:174:THR:H	2.29	0.41
41:BJ:219:ALA:C	41:BJ:221:ALA:N	2.79	0.41
42:BK:64:LYS:O	42:BK:65:ILE:CB	2.69	0.41
42:BK:155:THR:O	42:BK:156:LYS:C	2.64	0.41
43:BN:24:LYS:CB	43:BN:31:LYS:C	2.94	0.41
43:BN:49:PRO:CB	43:BN:50:LYS:C	2.94	0.41
43:BN:111:ALA:C	43:BN:113:THR:N	2.76	0.41
44:BO:15:GLN:O	44:BO:20:ARG:N	2.53	0.41
45:BP:58:LEU:HA	45:BP:61:ALA:CB	2.41	0.41
48:BS:133:LYS:O	48:BS:134:HIS:CB	2.69	0.41
53:BX:78:PHE:O	53:BX:79:ALA:CB	2.65	0.41
56:Ba:60:TRP:C	56:Ba:62:ARG:H	2.27	0.41
57:Bb:40:SER:C	57:Bb:42:VAL:N	2.79	0.41
57:Bb:89:THR:CB	57:Bb:90:LYS:CA	2.99	0.41
1:C1:47:A:H4'	1:C1:48:G:H5'	2.02	0.41
1:C1:55:A:C6	1:C1:403:G:N3	2.89	0.41
1:C1:106:U:C5	1:C1:107:C:C4	3.08	0.41
1:C1:151:G:OP1	1:C1:151:G:H4'	2.20	0.41
1:C1:190:C:H5"	1:C1:191:C:O2	2.20	0.41
1:C1:210:A:N6	1:C1:256:A:N6	2.68	0.41
1:C1:281:G:H2'	1:C1:282:C:C6	2.56	0.41
1:C1:357:G:C8	1:C1:358:U:H5	2.39	0.41
1:C1:428:A:C2	1:C1:440:U:O2	2.73	0.41
1:C1:443:C:H2'	1:C1:444:C:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:500:C:C2	1:C1:501:U:C5	3.09	0.41
1:C1:518:A:C2'	1:C1:519:C:C5'	2.96	0.41
1:C1:534:A:H5"	1:C1:535:A:OP1	2.21	0.41
1:C1:563:U:O4	1:C1:564:G:C6	2.73	0.41
1:C1:824:G:H2'	1:C1:824:G:N3	2.36	0.41
1:C1:824:G:N2	1:C1:849:C:H42	2.18	0.41
1:C1:916:U:C5	1:C1:917:U:N3	2.88	0.41
1:C1:926:A:C2	9:CH:125:SER:HA	2.51	0.41
1:C1:1257:U:O2'	1:C1:1258:U:H5"	2.20	0.41
1:C1:1348:A:C8	1:C1:1348:A:P	3.14	0.41
1:C1:1422:A:C2'	1:C1:1423:U:H5'	2.51	0.41
1:C1:1545:A:O2'	1:C1:1546:G:H5'	2.20	0.41
1:C1:1547:A:C6	1:C1:1548:G:C5	3.08	0.41
1:C1:1565:C:N3	1:C1:1566:U:C5	2.89	0.41
1:C1:1566:U:H5"	13:CL:39:GLY:HA3	2.03	0.41
1:C1:1585:U:O5'	1:C1:1585:U:H6	2.03	0.41
1:C1:1645:G:N2	1:C1:1757:G:C4	2.89	0.41
1:C1:1691:A:N6	1:C1:1713:G:C5	2.88	0.41
2:CA:13:ASP:H	2:CA:17:LEU:N	2.18	0.41
2:CA:39:ASN:O	2:CA:40:ALA:C	2.62	0.41
2:CA:144:ILE:O	2:CA:145:ALA:CB	2.69	0.41
4:CC:96:LEU:O	4:CC:97:SER:C	2.63	0.41
11:CJ:106:LYS:C	11:CJ:108:ALA:N	2.77	0.41
16:CO:41:MET:O	16:CO:42:GLN:C	2.63	0.41
21:CT:111:MET:O	21:CT:112:SER:CB	2.69	0.41
21:CT:302:PHE:O	21:CT:303:ALA:HB2	2.20	0.41
29:D1:20:A:HO2'	29:D1:21:G:P	2.42	0.41
29:D1:310:U:O2	29:D1:2780:A:C2	2.73	0.41
29:D1:370:U:OP1	74:D1:3625:OHX:N5	2.53	0.41
29:D1:379:C:H42	29:D1:390:G:H1	1.68	0.41
29:D1:382:U:C4	29:D1:383:G:C4	3.09	0.41
29:D1:423:A:O5'	29:D1:423:A:H8	2.03	0.41
29:D1:507:U:C2	29:D1:508:U:C5	3.09	0.41
29:D1:515:C:H6	29:D1:515:C:O5'	2.03	0.41
29:D1:517:G:H2'	29:D1:518:G:C8	2.56	0.41
29:D1:527:A:C6	29:D1:566:G:C6	3.09	0.41
29:D1:571:U:C2'	29:D1:571:U:O2	2.68	0.41
29:D1:583:G:C4	29:D1:584:G:C8	3.09	0.41
29:D1:720:A:C8	29:D1:720:A:OP2	2.74	0.41
29:D1:739:G:C2	29:D1:740:G:C5	3.09	0.41
29:D1:911:C:C2'	29:D1:912:G:H5'	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:943:U:O2'	29:D1:944:C:OP1	2.39	0.41
29:D1:958:C:C4'	29:D1:2799:A:O2'	2.69	0.41
29:D1:1005:G:C6	29:D1:1006:A:N7	2.88	0.41
29:D1:1197:A:HO2'	29:D1:1198:C:P	2.44	0.41
29:D1:1353:U:O3'	29:D1:1353:U:OP1	2.39	0.41
29:D1:1498:A:C6	29:D1:1519:G:C6	3.09	0.41
29:D1:1558:A:H5"	29:D1:1559:A:O5'	2.21	0.41
29:D1:1575:A:N6	29:D1:1576:G:C6	2.89	0.41
29:D1:1590:G:C4	29:D1:1591:G:C8	3.08	0.41
29:D1:2113:A:N7	29:D1:2114:C:N3	2.68	0.41
29:D1:2196:C:N4	29:D1:2242:A:C8	2.87	0.41
29:D1:2255:A:H4'	29:D1:2256:A:OP1	2.08	0.41
29:D1:2291:A:N1	29:D1:2292:U:C2	2.88	0.41
29:D1:2507:C:C2	29:D1:2508:U:C5	3.08	0.41
29:D1:2581:U:P	29:D1:2581:U:C6	3.09	0.41
29:D1:2663:G:H2'	29:D1:2663:G:N3	2.36	0.41
29:D1:2677:G:C2	29:D1:2678:A:H5'	2.55	0.41
29:D1:2704:A:C5	29:D1:2706:G:N7	2.89	0.41
29:D1:2743:A:H2'	29:D1:2744:U:C6	2.56	0.41
29:D1:2761:G:H22	29:D1:2795:U:C2'	2.31	0.41
29:D1:2918:G:N2	29:D1:2919:A:C5	2.89	0.41
30:D2:11:A:O2'	30:D2:68:C:C5'	2.68	0.41
30:D2:67:G:N1	30:D2:68:C:N1	2.69	0.41
30:D2:67:G:N3	30:D2:67:G:C2'	2.83	0.41
30:D2:69:C:C4	30:D2:70:U:C4	3.08	0.41
31:D3:50:C:N4	31:D3:79:A:H61	2.19	0.41
31:D3:134:G:O2'	31:D3:135:G:H5'	2.21	0.41
31:D3:147:U:C2	31:D3:148:G:C8	3.09	0.41
34:DC:306:THR:C	34:DC:308:MET:N	2.76	0.41
38:DG:74:SER:CB	38:DG:75:TYR:O	2.68	0.41
38:DG:202:LEU:C	38:DG:204:PRO:N	2.78	0.41
39:DH:158:ASP:HA	39:DH:159:PRO:HA	1.88	0.41
40:DI:126:VAL:O	40:DI:127:PRO:C	2.64	0.41
43:DN:71:ALA:C	43:DN:73:PRO:N	2.76	0.41
44:DO:10:LEU:C	44:DO:12:ARG:H	2.27	0.41
45:DP:45:GLY:HA2	45:DP:134:LYS:CB	2.50	0.41
45:DP:97:ALA:O	45:DP:99:LEU:N	2.54	0.41
52:DW:98:ALA:O	52:DW:99:VAL:C	2.64	0.41
53:DX:100:HIS:O	53:DX:102:SER:N	2.54	0.41
62:Dg:54:ILE:O	62:Dg:55:TRP:CB	2.68	0.41
1:A1:15:U:H2'	1:A1:16:G:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:173:A:N6	1:A1:174:U:C5	2.88	0.41
1:A1:222:A:OP2	1:A1:833:U:C6	2.74	0.41
1:A1:401:A:N3	1:A1:404:G:N7	2.69	0.41
1:A1:428:A:O3'	1:A1:439:U:H2'	2.20	0.41
1:A1:531:C:O2	1:A1:531:C:H2'	2.20	0.41
1:A1:556:A:C5'	1:A1:558:U:OP2	2.60	0.41
1:A1:620:A:C5	1:A1:621:A:C2	3.09	0.41
1:A1:838:G:C2	1:A1:839:U:N1	2.89	0.41
1:A1:886:U:H5"	1:A1:887:A:OP2	2.21	0.41
1:A1:908:U:H4'	1:A1:997:G:H4'	2.03	0.41
1:A1:1047:G:C4	1:A1:1048:G:C8	3.08	0.41
1:A1:1054:U:C2	1:A1:1055:U:C5	3.09	0.41
1:A1:1085:G:N7	74:A1:1908:OHX:N2	2.69	0.41
1:A1:1139:A:C2'	1:A1:1140:G:C5'	2.97	0.41
1:A1:1232:U:OP1	1:A1:1258:U:O2'	2.37	0.41
1:A1:1236:A:H3'	1:A1:1237:G:C8	2.51	0.41
1:A1:1269:U:C2	1:A1:1432:U:O4'	2.74	0.41
1:A1:1281:G:H4'	15:AN:75:GLY:CA	2.51	0.41
1:A1:1281:G:C2'	1:A1:1282:U:H6	2.09	0.41
1:A1:1306:C:HO2'	1:A1:1307:U:H5	1.61	0.41
1:A1:1339:C:O2'	1:A1:1340:U:C5'	2.61	0.41
1:A1:1363:U:N3	1:A1:1364:G:C5	2.89	0.41
1:A1:1515:A:H3'	1:A1:1516:A:H5"	2.01	0.41
1:A1:1529:C:H2'	1:A1:1530:C:H6	1.85	0.41
1:A1:1766:A:H5"	74:A1:1931:OHX:N6	2.36	0.41
2:AA:30:GLN:O	2:AA:31:VAL:C	2.63	0.41
3:AB:59:HIS:CB	3:AB:61:LEU:O	2.68	0.41
3:AB:210:THR:O	3:AB:211:LEU:C	2.64	0.41
5:AD:89:ILE:O	5:AD:91:GLU:N	2.53	0.41
5:AD:213:LYS:O	5:AD:214:LYS:C	2.63	0.41
11:AJ:43:ILE:C	11:AJ:45:ARG:H	2.29	0.41
21:AT:180:ALA:CB	21:AT:190:ALA:O	2.53	0.41
21:AT:268:GLN:O	21:AT:270:LEU:N	2.53	0.41
23:Ab:62:UNK:C	23:Ab:64:UNK:N	2.83	0.41
24:Ac:18:UNK:O	24:Ac:22:UNK:N	2.54	0.41
29:B1:84:U:O2'	29:B1:101:G:O6	2.32	0.41
29:B1:137:G:N7	29:B1:138:U:C6	2.89	0.41
29:B1:170:G:C2	29:B1:171:G:H1'	2.55	0.41
29:B1:219:A:C2	29:B1:1390:A:C2'	3.00	0.41
29:B1:299:G:H8	29:B1:299:G:C5'	2.33	0.41
29:B1:323:A:H2'	29:B1:324:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:537:A:C1'	29:B1:558:U:O4	2.69	0.41
29:B1:588:G:C4'	29:B1:589:A:N7	2.68	0.41
29:B1:637:C:O2'	29:B1:638:C:OP2	2.38	0.41
29:B1:778:U:C2'	29:B1:779:G:H5'	2.49	0.41
29:B1:822:G:C2	29:B1:823:C:N1	2.89	0.41
29:B1:866:A:C8	29:B1:867:G:N7	2.85	0.41
29:B1:1009:A:O3'	29:B1:1010:G:O4'	2.38	0.41
29:B1:1256:G:C6	29:B1:1257:C:N4	2.88	0.41
29:B1:1275:C:C4	29:B1:1276:U:N3	2.88	0.41
29:B1:1282:G:H2'	29:B1:1283:C:C5'	2.48	0.41
29:B1:1302:A:C5	29:B1:2887:A:C6	3.09	0.41
29:B1:1383:G:N1	29:B1:1424:C:C4	2.89	0.41
29:B1:1618:G:N1	29:B1:1619:A:C2	2.89	0.41
29:B1:1636:U:H3	29:B1:1710:C:C1'	2.33	0.41
29:B1:1736:G:H2'	29:B1:1736:G:N3	2.35	0.41
29:B1:1793:C:H3'	29:B1:1793:C:P	2.59	0.41
29:B1:1901:A:OP2	29:B1:1903:U:O4	2.39	0.41
29:B1:2193:U:H6	29:B1:2193:U:H2'	1.65	0.41
29:B1:2285:C:C6	29:B1:2285:C:H3'	2.56	0.41
29:B1:2299:A:C2'	29:B1:2300:G:O5'	2.68	0.41
29:B1:2393:G:C2	29:B1:2982:A:C2	3.09	0.41
29:B1:2568:C:H2'	29:B1:2569:A:H4'	2.02	0.41
29:B1:2610:G:C4	29:B1:2611:U:C5	3.08	0.41
29:B1:2650:U:H1'	29:B1:2758:A:H2	1.83	0.41
29:B1:2815:G:H5"	29:B1:2816:G:P	2.60	0.41
29:B1:2914:G:H2'	29:B1:2915:U:C6	2.52	0.41
29:B1:3060:C:C2'	29:B1:3061:G:O5'	2.69	0.41
29:B1:3073:A:C5	29:B1:3074:G:C8	3.09	0.41
29:B1:3271:G:N3	29:B1:3271:G:H3'	2.35	0.41
29:B1:3381:U:H2'	29:B1:3383:G:C8	2.55	0.41
29:B1:3392:U:O2	29:B1:3393:U:N3	2.54	0.41
31:B3:117:C:C2	31:B3:118:C:C5	3.09	0.41
35:BD:17:ALA:O	35:BD:18:ASN:CB	2.69	0.41
35:BD:85:SER:C	35:BD:87:GLN:N	2.67	0.41
35:BD:189:ALA:O	35:BD:190:GLY:O	2.39	0.41
41:BJ:28:ASP:O	41:BJ:29:SER:O	2.38	0.41
44:BO:55:ALA:O	44:BO:56:LYS:CB	2.68	0.41
44:BO:140:LYS:C	44:BO:142:ILE:N	2.77	0.41
59:Bd:42:ALA:O	59:Bd:43:LYS:C	2.64	0.41
61:Bf:80:ARG:O	61:Bf:82:GLN:N	2.54	0.41
1:C1:51:A:N1	1:C1:52:U:C2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:55:A:N7	1:C1:426:G:C6	2.88	0.41
1:C1:95:G:C6	1:C1:96:G:C5	3.09	0.41
1:C1:160:C:H4'	1:C1:161:U:OP1	2.20	0.41
1:C1:223:U:N3	1:C1:839:U:C5	2.88	0.41
1:C1:250:C:N3	1:C1:251:A:C6	2.88	0.41
1:C1:340:U:C3'	1:C1:341:A:C8	2.96	0.41
1:C1:371:G:C6	1:C1:372:G:C4	3.09	0.41
1:C1:371:G:O6	1:C1:372:G:N1	2.53	0.41
1:C1:400:A:C4'	1:C1:401:A:C5'	2.84	0.41
1:C1:452:A:H2	1:C1:454:U:O5'	2.04	0.41
1:C1:453:U:H2'	1:C1:454:U:H5'	2.01	0.41
1:C1:486:G:O6	1:C1:487:G:C6	2.73	0.41
1:C1:522:U:H3'	1:C1:522:U:C6	2.56	0.41
1:C1:589:C:C2	1:C1:590:C:C5	3.09	0.41
1:C1:665:U:H2'	1:C1:666:U:C4'	2.50	0.41
1:C1:747:C:C2	1:C1:748:U:C6	3.08	0.41
1:C1:869:A:H2'	1:C1:870:C:H6	1.86	0.41
1:C1:1054:U:C2	1:C1:1055:U:C5	3.09	0.41
1:C1:1149:G:O6	1:C1:1629:G:C2	2.73	0.41
1:C1:1194:A:H2'	1:C1:1195:C:H5'	2.02	0.41
1:C1:1224:A:C2	1:C1:1225:U:N3	2.88	0.41
1:C1:1246:C:C6	1:C1:1247:U:C5	3.08	0.41
1:C1:1267:G:N2	1:C1:1448:G:H5"	2.35	0.41
1:C1:1269:U:C2	1:C1:1432:U:O4'	2.73	0.41
1:C1:1277:G:O2'	1:C1:1278:G:H5'	2.21	0.41
1:C1:1291:G:H21	1:C1:1324:G:H22	1.67	0.41
1:C1:1484:G:N2	1:C1:1485:C:C2	2.89	0.41
1:C1:1512:G:C4	1:C1:1513:G:C8	3.09	0.41
1:C1:1631:A:N3	1:C1:1632:C:H1'	2.36	0.41
1:C1:1662:G:C2	1:C1:1663:G:N7	2.88	0.41
3:CB:72:LEU:O	3:CB:74:PRO:N	2.54	0.41
3:CB:142:GLY:O	3:CB:143:TYR:CB	2.69	0.41
3:CB:243:TYR:O	3:CB:245:ASP:N	2.54	0.41
4:CC:102:ALA:O	4:CC:106:LYS:CB	2.68	0.41
5:CD:163:SER:O	5:CD:164:PRO:C	2.63	0.41
13:CL:121:ALA:O	13:CL:122:HIS:C	2.64	0.41
14:CM:68:ARG:C	14:CM:70:GLN:H	2.28	0.41
14:CM:103:LYS:C	14:CM:105:LEU:H	2.26	0.41
17:CP:87:VAL:O	17:CP:88:PRO:C	2.64	0.41
28:Ch:1:UNK:C	28:Ch:3:UNK:N	2.84	0.41
29:D1:39:A:C2	29:D1:44:U:O4	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:71:A:H5"	29:D1:73:C:C4	2.56	0.41
29:D1:102:C:O4'	29:D1:103:G:OP1	2.38	0.41
29:D1:126:U:N1	29:D1:127:G:C8	2.89	0.41
29:D1:179:C:H2'	29:D1:179:C:O2	2.20	0.41
29:D1:206:G:C4	29:D1:207:U:C6	3.09	0.41
29:D1:210:U:N3	35:DD:162:THR:N	2.60	0.41
29:D1:216:G:N2	29:D1:225:C:C2	2.89	0.41
29:D1:238:A:OP1	74:D1:3577:OHX:N1	2.53	0.41
29:D1:282:G:C4'	29:D1:283:G:OP2	2.67	0.41
29:D1:301:G:H2'	29:D1:302:U:C5'	2.50	0.41
29:D1:321:C:H2'	29:D1:322:U:O4'	2.20	0.41
29:D1:327:A:H5'	29:D1:327:A:C8	2.55	0.41
29:D1:344:A:C2	29:D1:345:G:N9	2.89	0.41
29:D1:370:U:OP1	74:D1:3625:OHX:N3	2.53	0.41
29:D1:383:G:O3'	29:D1:385:A:N7	2.54	0.41
29:D1:408:A:O2'	29:D1:409:A:H5'	2.21	0.41
29:D1:437:G:C5	29:D1:438:A:C6	3.08	0.41
29:D1:531:G:C2'	29:D1:532:A:C8	2.80	0.41
29:D1:597:G:C5	29:D1:598:A:C8	3.08	0.41
29:D1:613:G:O2'	29:D1:614:C:C5'	2.62	0.41
29:D1:835:G:O2'	29:D1:836:A:OP2	2.36	0.41
29:D1:880:G:C1'	29:D1:882:A:N7	2.84	0.41
29:D1:885:U:C2	29:D1:886:C:C5	3.08	0.41
29:D1:913:A:H5'	29:D1:913:A:C8	2.56	0.41
29:D1:1220:U:O3'	29:D1:1221:A:C4'	2.58	0.41
29:D1:1226:G:C2	29:D1:1227:C:C6	3.09	0.41
29:D1:1245:A:C8	29:D1:1272:C:OP1	2.73	0.41
29:D1:1254:C:N3	29:D1:1255:C:C5	2.89	0.41
29:D1:1279:C:O2'	29:D1:1280:C:P	2.78	0.41
29:D1:1393:A:H2	29:D1:1394:A:C1'	2.33	0.41
29:D1:1428:A:C2	29:D1:1430:U:C6	3.08	0.41
29:D1:1442:U:C5'	29:D1:1442:U:H6	2.20	0.41
29:D1:1445:U:H3'	29:D1:1446:A:H8	1.85	0.41
29:D1:1457:U:O2	29:D1:1457:U:H2'	2.20	0.41
29:D1:1525:G:H2'	29:D1:1594:A:H2	1.85	0.41
29:D1:1532:C:H4'	29:D1:1800:A:O4'	2.21	0.41
29:D1:1561:G:C5	29:D1:1562:C:C4	3.08	0.41
29:D1:1601:U:O2	29:D1:1603:A:OP2	2.39	0.41
29:D1:1704:A:N3	29:D1:1741:A:C5	2.88	0.41
29:D1:1869:C:O2	29:D1:1869:C:H2'	2.21	0.41
29:D1:1921:A:C5	29:D1:1932:A:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2098:C:H2'	29:D1:2099:A:H8	1.78	0.41
29:D1:2102:U:O2'	29:D1:2103:U:C5'	2.68	0.41
29:D1:2199:G:N1	29:D1:2200:U:C4	2.89	0.41
29:D1:2249:G:N9	29:D1:2272:G:C8	2.89	0.41
29:D1:2253:G:C3'	29:D1:2254:U:C6	2.98	0.41
29:D1:2256:A:O2'	29:D1:2257:C:OP1	2.39	0.41
29:D1:2414:G:H2'	29:D1:2415:C:O4'	2.21	0.41
29:D1:2582:C:OP2	29:D1:2582:C:C6	2.70	0.41
29:D1:2608:G:C2	29:D1:2609:A:C5	3.08	0.41
29:D1:2698:G:C5	29:D1:2699:G:N7	2.88	0.41
29:D1:2760:C:OP1	29:D1:2760:C:O4'	2.39	0.41
29:D1:2917:G:HO2'	29:D1:2918:G:P	2.44	0.41
29:D1:2964:G:N2	29:D1:2967:A:C8	2.88	0.41
29:D1:2997:G:C4'	29:D1:2998:U:OP2	2.68	0.41
29:D1:3040:A:H2'	29:D1:3041:U:H5'	2.02	0.41
29:D1:3086:A:C8	29:D1:3087:A:N7	2.88	0.41
29:D1:3096:C:C4	29:D1:3097:C:N4	2.89	0.41
29:D1:3212:C:C4	29:D1:3213:A:N1	2.89	0.41
29:D1:3221:C:H2'	29:D1:3222:U:C5'	2.50	0.41
29:D1:3276:G:C3'	29:D1:3277:U:O4'	2.69	0.41
29:D1:3281:U:H2'	29:D1:3282:U:N1	2.35	0.41
29:D1:3363:U:O5'	29:D1:3364:C:H5	2.04	0.41
29:D1:3388:C:C2'	29:D1:3389:U:C6	3.04	0.41
30:D2:12:U:C5	30:D2:70:U:OP1	2.73	0.41
31:D3:11:C:O2'	46:DQ:3:ARG:O	2.37	0.41
31:D3:24:G:O2'	31:D3:25:G:H5'	2.21	0.41
31:D3:50:C:O2'	31:D3:51:G:C5'	2.69	0.41
31:D3:123:G:H3'	31:D3:124:G:C5'	2.47	0.41
31:D3:140:G:N1	31:D3:141:C:N3	2.68	0.41
31:D3:152:G:H2'	31:D3:153:U:O4'	2.20	0.41
33:DB:181:LYS:O	33:DB:182:ALA:O	2.38	0.41
35:DD:76:ARG:O	35:DD:85:SER:O	2.39	0.41
36:DE:271:LYS:HA	36:DE:278:SER:CB	2.50	0.41
38:DG:165:ASP:C	38:DG:167:ALA:N	2.78	0.41
41:DJ:24:ARG:O	41:DJ:25:ALA:CB	2.69	0.41
41:DJ:85:PHE:O	41:DJ:86:HIS:CB	2.67	0.41
73:DM:5:ARG:O	73:DM:7:LYS:N	2.53	0.41
45:DP:36:VAL:CB	45:DP:105:PHE:H	2.34	0.41
45:DP:60:LYS:C	45:DP:61:ALA:O	2.63	0.41
46:DQ:9:THR:C	46:DQ:13:LYS:H	2.29	0.41
47:DR:29:LEU:O	47:DR:30:VAL:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DS:28:GLU:O	48:DS:29:THR:C	2.64	0.41
48:DS:134:HIS:O	48:DS:136:ARG:N	2.54	0.41
52:DW:61:LYS:CB	52:DW:62:VAL:CA	2.98	0.41
53:DX:17:LYS:O	53:DX:18:ALA:C	2.61	0.41
58:Dc:56:THR:C	58:Dc:58:ILE:N	2.77	0.41
62:Dg:60:CYS:CB	74:Dg:101:OHX:N3	2.84	0.41
1:A1:41:A:OP1	1:A1:379:U:H1'	2.21	0.41
1:A1:50:C:H2'	1:A1:50:C:O2	2.21	0.41
1:A1:70:C:N4	1:A1:71:A:N6	2.68	0.41
1:A1:72:A:C2	1:A1:73:U:N1	2.89	0.41
1:A1:81:G:H2'	1:A1:82:U:O5'	2.20	0.41
1:A1:95:G:O2'	1:A1:460:A:O2'	2.24	0.41
1:A1:138:A:HO2'	1:A1:139:C:P	2.42	0.41
1:A1:225:A:N3	1:A1:226:A:C8	2.88	0.41
1:A1:259:U:O2'	1:A1:260:U:OP1	2.37	0.41
1:A1:287:G:H2'	1:A1:288:A:O5'	2.20	0.41
1:A1:295:A:N1	1:A1:296:U:O2	2.54	0.41
1:A1:405:C:C2	1:A1:406:U:C5	3.09	0.41
1:A1:492:A:C2	1:A1:494:U:H5"	2.56	0.41
1:A1:507:U:P	1:A1:540:G:O6	2.79	0.41
1:A1:529:A:O4'	1:A1:529:A:OP2	2.39	0.41
1:A1:552:G:C6	1:A1:553:G:C6	3.09	0.41
1:A1:607:G:N7	1:A1:613:G:N9	2.69	0.41
1:A1:639:U:O2'	1:A1:640:U:OP2	2.33	0.41
1:A1:704:C:C2	1:A1:705:U:C5	3.09	0.41
1:A1:718:U:H2'	1:A1:719:U:C4	2.55	0.41
1:A1:741:C:O2'	1:A1:742:U:O4'	2.38	0.41
1:A1:747:C:C2	1:A1:748:U:C6	3.09	0.41
1:A1:827:C:C2	1:A1:828:U:N3	2.86	0.41
1:A1:827:C:H6	1:A1:827:C:H5"	1.85	0.41
1:A1:827:C:O2	1:A1:828:U:O2	2.39	0.41
1:A1:827:C:O2'	1:A1:828:U:OP1	2.38	0.41
1:A1:827:C:O2'	1:A1:828:U:O4'	2.33	0.41
1:A1:852:C:H2'	1:A1:853:G:O4'	2.21	0.41
1:A1:867:G:H2'	1:A1:868:G:O4'	2.21	0.41
1:A1:929:A:C1'	9:AH:123:SER:HA	2.50	0.41
1:A1:986:G:O5'	1:A1:986:G:C8	2.74	0.41
1:A1:1035:G:N1	1:A1:1101:G:C6	2.89	0.41
1:A1:1043:A:H5"	1:A1:1044:U:OP2	2.21	0.41
1:A1:1045:C:N4	1:A1:1075:C:N3	2.69	0.41
1:A1:1151:A:N3	1:A1:1152:A:C8	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1185:U:C4'	1:A1:1186:U:OP2	2.68	0.41
1:A1:1201:G:H3'	1:A1:1201:G:C4	2.42	0.41
1:A1:1205:C:OP2	1:A1:1455:G:O6	2.39	0.41
1:A1:1214:U:C4'	1:A1:1245:G:H21	2.32	0.41
1:A1:1235:C:C2'	1:A1:1236:A:H5'	2.51	0.41
1:A1:1291:G:N2	1:A1:1324:G:N1	2.49	0.41
1:A1:1348:A:C8	1:A1:1349:G:C5'	3.04	0.41
1:A1:1458:G:OP1	13:AL:138:THR:O	2.39	0.41
1:A1:1474:G:N1	1:A1:1475:A:C6	2.89	0.41
1:A1:1481:C:H5	1:A1:1482:C:O2	2.04	0.41
1:A1:1483:A:C2	1:A1:1607:G:H1'	2.56	0.41
1:A1:1558:U:P	1:A1:1559:A:H5'	2.61	0.41
1:A1:1584:G:N9	11:AJ:123:ARG:C	2.78	0.41
1:A1:1599:C:O2	1:A1:1600:A:N1	2.54	0.41
1:A1:1607:G:N3	1:A1:1608:U:C6	2.89	0.41
1:A1:1631:A:N3	1:A1:1632:C:C1'	2.84	0.41
1:A1:1729:C:O2	1:A1:1729:C:H2'	2.20	0.41
1:A1:1744:A:N6	1:A1:1745:G:N1	2.68	0.41
1:A1:1749:A:C2'	1:A1:1750:A:O5'	2.68	0.41
1:A1:1776:A:C2	1:A1:1786:G:C6	3.08	0.41
2:AA:3:LEU:C	2:AA:5:ALA:N	2.79	0.41
2:AA:15:GLN:O	2:AA:16:LEU:C	2.64	0.41
2:AA:173:ILE:C	2:AA:175:TYR:H	2.28	0.41
3:AB:155:ALA:HB3	3:AB:217:ALA:HB1	2.02	0.41
4:AC:9:ARG:O	4:AC:10:LYS:C	2.63	0.41
4:AC:80:ALA:HA	4:AC:83:THR:CB	2.51	0.41
4:AC:119:ALA:O	4:AC:120:TYR:C	2.64	0.41
4:AC:128:GLU:C	4:AC:130:GLY:N	2.78	0.41
5:AD:204:GLY:C	5:AD:206:SER:N	2.66	0.41
6:AE:100:LYS:CA	6:AE:104:PHE:H	2.34	0.41
6:AE:128:LEU:O	6:AE:129:ILE:C	2.63	0.41
8:AG:145:THR:CA	8:AG:146:ALA:HB2	2.40	0.41
10:AI:52:LYS:HA	10:AI:53:PRO:HA	1.73	0.41
11:AJ:48:VAL:C	11:AJ:50:GLU:N	2.78	0.41
11:AJ:91:ALA:O	11:AJ:92:TYR:CB	2.69	0.41
13:AL:50:ALA:C	13:AL:52:VAL:H	2.27	0.41
13:AL:73:MET:C	13:AL:77:THR:CB	2.94	0.41
14:AM:28:LEU:C	14:AM:30:VAL:N	2.61	0.41
18:AQ:45:GLU:C	18:AQ:47:TYR:N	2.78	0.41
23:Ab:77:UNK:O	23:Ab:81:UNK:N	2.54	0.41
29:B1:10:C:O2	29:B1:11:A:C1'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:20:A:N1	31:B3:140:G:C6	2.89	0.41
29:B1:48:A:O4'	29:B1:50:U:C6	2.74	0.41
29:B1:72:C:N3	29:B1:73:C:O4'	2.54	0.41
29:B1:92:G:C5	29:B1:94:G:N2	2.88	0.41
29:B1:112:U:C2	29:B1:113:C:C6	3.09	0.41
29:B1:128:G:H2'	29:B1:129:U:C6	2.56	0.41
29:B1:158:G:H3'	29:B1:158:G:H8	1.86	0.41
29:B1:216:G:C6	29:B1:217:U:N3	2.89	0.41
29:B1:237:G:H2'	29:B1:238:A:H5'	2.02	0.41
29:B1:280:U:O2	29:B1:286:U:N1	2.51	0.41
29:B1:317:A:C2	29:B1:318:A:C5	3.09	0.41
29:B1:338:A:H3'	29:B1:339:C:H5"	2.02	0.41
29:B1:351:A:H8	31:B3:53:A:C1'	2.32	0.41
29:B1:355:A:C8	29:B1:356:C:C6	3.08	0.41
29:B1:362:U:H2'	29:B1:363:G:O4'	2.20	0.41
29:B1:408:A:C2	29:B1:409:A:C4	3.08	0.41
29:B1:509:U:C4	29:B1:510:G:N7	2.89	0.41
29:B1:518:G:H8	29:B1:518:G:H5"	1.86	0.41
29:B1:542:G:N3	29:B1:543:C:C5	2.89	0.41
29:B1:542:G:N2	29:B1:543:C:C2	2.89	0.41
29:B1:548:G:OP2	29:B1:548:G:H3'	2.21	0.41
29:B1:609:G:O4'	29:B1:610:G:OP1	2.39	0.41
29:B1:627:U:H2'	29:B1:628:A:H8	1.83	0.41
29:B1:642:U:H2'	29:B1:644:G:C8	2.56	0.41
29:B1:643:U:C4	29:B1:644:G:C4	3.09	0.41
29:B1:645:A:C2	29:B1:2372:A:C4	3.08	0.41
29:B1:650:C:H1'	29:B1:2871:G:N3	2.36	0.41
29:B1:657:A:O2'	29:B1:658:G:H5'	2.20	0.41
29:B1:708:G:C6	29:B1:712:G:O6	2.74	0.41
29:B1:715:A:O2'	29:B1:716:A:O5'	2.38	0.41
29:B1:739:G:H2'	29:B1:739:G:N3	2.36	0.41
29:B1:743:C:H6	29:B1:743:C:H5'	1.86	0.41
29:B1:784:A:C2'	29:B1:785:G:C8	2.87	0.41
29:B1:814:U:C2'	29:B1:815:G:O5'	2.69	0.41
29:B1:854:G:N3	29:B1:854:G:H2'	2.36	0.41
29:B1:878:G:C1'	29:B1:880:G:N2	2.83	0.41
29:B1:903:U:O3'	29:B1:1536:G:O2'	2.38	0.41
29:B1:912:G:H21	29:B1:915:A:H62	1.69	0.41
29:B1:916:G:N7	29:B1:924:G:C4	2.89	0.41
29:B1:917:A:N1	29:B1:918:C:N3	2.69	0.41
29:B1:932:U:C4'	29:B1:933:A:C5'	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1019:G:C6	29:B1:1020:G:N7	2.89	0.41
29:B1:1021:G:N1	29:B1:1032:C:O2	2.53	0.41
29:B1:1078:U:O4	29:B1:1082:U:C4	2.74	0.41
29:B1:1126:G:C2	29:B1:1133:A:C2	3.09	0.41
29:B1:1154:A:C8	29:B1:1154:A:C3'	3.03	0.41
29:B1:1194:G:O6	29:B1:1314:C:C2	2.73	0.41
29:B1:1244:A:O2'	29:B1:1248:C:N4	2.54	0.41
29:B1:1255:C:H2'	29:B1:1256:G:C4'	2.31	0.41
29:B1:1255:C:O2	29:B1:1256:G:O2'	2.36	0.41
29:B1:1257:C:C6	29:B1:1258:U:H1'	2.56	0.41
29:B1:1273:A:N7	29:B1:1274:A:C4	2.89	0.41
29:B1:1299:U:H3'	29:B1:1300:G:H8	1.86	0.41
29:B1:1310:G:C8	29:B1:1310:G:C3'	3.04	0.41
29:B1:1321:G:H5"	29:B1:1322:U:OP2	2.21	0.41
29:B1:1329:U:O2'	29:B1:1330:A:C5'	2.69	0.41
29:B1:1389:G:O2'	29:B1:1390:A:P	2.79	0.41
29:B1:1393:A:H2	29:B1:1394:A:O4'	2.03	0.41
29:B1:1413:G:N1	29:B1:1414:G:C5	2.89	0.41
29:B1:1433:A:O2'	29:B1:1434:G:O5'	2.24	0.41
29:B1:1447:G:O2'	29:B1:2355:G:N1	2.52	0.41
29:B1:1525:G:C8	29:B1:1829:G:C6	3.08	0.41
29:B1:1573:G:C6	29:B1:1574:C:H1'	2.56	0.41
29:B1:1591:G:H2'	29:B1:1592:G:H5'	2.02	0.41
29:B1:1599:G:H2'	29:B1:1600:U:O4'	2.21	0.41
29:B1:1627:U:OP1	29:B1:1628:C:OP2	2.38	0.41
29:B1:1631:C:C2'	29:B1:1632:A:OP2	2.69	0.41
29:B1:1635:G:N2	29:B1:1637:A:H3'	2.36	0.41
29:B1:1664:G:C2	29:B1:1786:G:N3	2.89	0.41
29:B1:1731:A:C2'	29:B1:1732:U:H5'	2.51	0.41
29:B1:1740:U:H5'	29:B1:1741:A:H2	1.86	0.41
29:B1:1741:A:H2'	29:B1:1742:U:O4'	2.21	0.41
29:B1:1780:G:O2'	29:B1:1781:C:C6	2.72	0.41
29:B1:1816:A:H2'	29:B1:1817:G:C8	2.55	0.41
29:B1:1878:G:P	29:B1:1879:A:C2	3.14	0.41
29:B1:1894:U:H1'	29:B1:3054:U:H5"	2.02	0.41
29:B1:1898:G:N7	29:B1:1899:G:C5	2.88	0.41
29:B1:1905:G:H22	29:B1:1907:C:H5'	1.84	0.41
29:B1:2130:G:O6	29:B1:2323:G:O6	2.38	0.41
29:B1:2176:U:OP1	33:BB:26:ALA:N	2.35	0.41
29:B1:2188:A:N6	29:B1:2320:A:C6	2.89	0.41
29:B1:2224:A:N1	29:B1:2783:U:O2'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2249:G:C8	29:B1:2272:G:C8	3.09	0.41
29:B1:2249:G:C8	29:B1:2250:G:C8	3.09	0.41
29:B1:2260:U:O2'	29:B1:2261:G:C8	2.71	0.41
29:B1:2276:G:H2'	29:B1:2277:C:H5'	2.02	0.41
29:B1:2298:U:O4'	29:B1:2298:U:O2	2.35	0.41
29:B1:2308:C:C4	29:B1:2309:A:C6	3.09	0.41
29:B1:2325:G:C4	29:B1:2326:A:C8	3.08	0.41
29:B1:2341:A:H4'	29:B1:3090:U:O2'	2.21	0.41
29:B1:2355:G:C3'	29:B1:2355:G:C8	3.04	0.41
29:B1:2469:G:C5	29:B1:2477:G:N2	2.89	0.41
29:B1:2523:A:H1'	29:B1:2524:A:P	2.61	0.41
29:B1:2588:U:O2	29:B1:2588:U:C2'	2.69	0.41
29:B1:2613:U:O2	29:B1:2613:U:O4'	2.38	0.41
29:B1:2680:A:H3'	29:B1:2680:A:C8	2.55	0.41
29:B1:2684:C:C2'	29:B1:2685:C:H6	2.00	0.41
29:B1:2743:A:C3'	29:B1:2744:U:C6	3.00	0.41
29:B1:2750:U:C2	29:B1:2751:G:C8	3.09	0.41
29:B1:2753:G:C2	29:B1:2754:G:C8	3.08	0.41
29:B1:2812:C:C2	29:B1:2813:A:C8	3.09	0.41
29:B1:2828:G:C2'	29:B1:2829:U:O5'	2.68	0.41
29:B1:2843:U:H3'	29:B1:2843:U:OP2	2.21	0.41
29:B1:2864:A:C6	29:B1:2865:U:N3	2.89	0.41
29:B1:2945:G:H8	29:B1:2979:U:O2	2.03	0.41
29:B1:2948:C:H6	29:B1:2948:C:O5'	2.04	0.41
29:B1:3006:A:C8	29:B1:3007:U:N1	2.89	0.41
29:B1:3032:A:H3'	29:B1:3032:A:C8	2.56	0.41
29:B1:3048:A:C8	29:B1:3090:U:O4	2.73	0.41
29:B1:3052:G:C6	29:B1:3091:A:N6	2.89	0.41
29:B1:3094:A:O2'	29:B1:3095:U:H5'	2.21	0.41
29:B1:3142:A:H5'	29:B1:3143:C:C5	2.56	0.41
29:B1:3181:C:C1'	45:BP:167:TYR:CB	2.98	0.41
29:B1:3181:C:H42	29:B1:3190:C:P	2.44	0.41
29:B1:3189:G:C2	29:B1:3190:C:C6	3.09	0.41
29:B1:3218:A:O5'	29:B1:3220:G:H8	2.04	0.41
29:B1:3222:U:O2	29:B1:3223:A:C1'	2.69	0.41
29:B1:3265:C:N4	29:B1:3266:G:N7	2.68	0.41
29:B1:3294:A:N6	29:B1:3295:A:C6	2.88	0.41
29:B1:3314:A:H3'	34:BC:118:PHE:C	2.45	0.41
29:B1:3322:A:C4	29:B1:3323:A:N7	2.88	0.41
29:B1:3390:G:C4	29:B1:3391:A:N9	2.89	0.41
29:B1:3391:A:N1	29:B1:3392:U:C4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:9:C:C6	30:B2:10:C:O4'	2.74	0.41
30:B2:38:U:C5	30:B2:41:G:H5"	2.56	0.41
31:B3:59:A:C8	31:B3:61:A:N6	2.89	0.41
31:B3:73:U:H2'	31:B3:89:A:N6	2.36	0.41
31:B3:106:C:OP2	31:B3:106:C:H3'	2.20	0.41
31:B3:140:G:C2	31:B3:141:C:C2	3.09	0.41
34:BC:81:THR:CB	34:BC:321:PHE:H	2.34	0.41
34:BC:142:ALA:O	34:BC:145:GLU:N	2.53	0.41
36:BE:38:THR:HA	36:BE:39:GLN:C	2.45	0.41
36:BE:96:ALA:C	36:BE:98:ALA:N	2.75	0.41
36:BE:193:GLU:O	36:BE:196:ARG:N	2.54	0.41
36:BE:274:GLN:O	36:BE:276:LYS:N	2.48	0.41
37:BF:21:THR:CA	37:BF:112:THR:N	2.78	0.41
37:BF:152:THR:O	37:BF:157:GLN:N	2.42	0.41
39:BH:224:ASP:O	39:BH:227:ASP:CB	2.69	0.41
39:BH:231:LYS:HA	39:BH:233:TRP:N	2.35	0.41
40:BI:11:GLU:O	40:BI:12:VAL:C	2.64	0.41
40:BI:46:THR:HA	40:BI:47:LYS:HA	1.95	0.41
40:BI:63:LYS:CA	40:BI:66:ALA:HB3	2.39	0.41
41:BJ:70:ILE:C	41:BJ:72:ALA:N	2.79	0.41
41:BJ:210:ILE:O	41:BJ:214:PRO:N	2.54	0.41
41:BJ:217:PHE:O	41:BJ:220:GLN:N	2.54	0.41
43:BN:97:SER:O	43:BN:100:ALA:N	2.54	0.41
45:BP:62:THR:O	45:BP:63:ALA:HB3	2.21	0.41
45:BP:166:GLU:O	45:BP:169:ALA:N	2.54	0.41
48:BS:144:GLN:O	48:BS:147:ALA:N	2.53	0.41
50:BU:127:PRO:O	50:BU:128:ARG:C	2.63	0.41
51:BV:58:HIS:HA	51:BV:59:HIS:HA	1.63	0.41
52:BW:75:LYS:C	52:BW:77:GLU:N	2.78	0.41
56:Ba:6:ASP:O	56:Ba:7:VAL:CB	2.68	0.41
57:Bb:88:HIS:O	57:Bb:89:THR:CB	2.69	0.41
57:Bb:121:ASN:O	57:Bb:122:PRO:C	2.63	0.41
59:Bd:42:ALA:C	59:Bd:44:THR:N	2.77	0.41
61:Bf:54:THR:O	61:Bf:56:PRO:N	2.54	0.41
61:Bf:79:THR:HA	61:Bf:80:ARG:HA	1.79	0.41
22:Bo:5:UNK:C	22:Bo:7:UNK:N	2.84	0.41
1:C1:10:G:O6	1:C1:1144:U:O2	2.39	0.41
1:C1:24:U:C6	1:C1:24:U:C5'	3.04	0.41
1:C1:40:A:C2'	1:C1:41:A:H8	2.16	0.41
1:C1:47:A:O2'	1:C1:100:A:O4'	2.26	0.41
1:C1:62:A:C1'	1:C1:63:G:P	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:70:C:N4	1:C1:71:A:N6	2.69	0.41
1:C1:93:A:O4'	1:C1:399:A:H2	2.03	0.41
1:C1:98:U:H2'	1:C1:99:C:C5	2.55	0.41
1:C1:114:C:N4	1:C1:250:C:C1'	2.83	0.41
1:C1:123:G:O6	1:C1:124:A:C5	2.74	0.41
1:C1:186:C:N4	1:C1:199:G:N1	2.23	0.41
1:C1:218:A:N6	1:C1:844:A:C1'	2.75	0.41
1:C1:290:G:C2'	1:C1:291:G:C8	3.03	0.41
1:C1:312:A:N1	1:C1:315:A:C8	2.89	0.41
1:C1:313:U:C5	1:C1:1118:G:N3	2.88	0.41
1:C1:359:A:P	1:C1:359:A:H3'	2.60	0.41
1:C1:366:A:H2'	1:C1:367:A:H8	1.84	0.41
1:C1:380:U:O2'	1:C1:381:C:O4'	2.28	0.41
1:C1:383:G:O6	74:C1:1999:OHX:N5	2.53	0.41
1:C1:385:A:C2'	1:C1:386:G:O5'	2.69	0.41
1:C1:406:U:H2'	1:C1:407:A:C8	2.55	0.41
1:C1:407:A:C5	1:C1:408:C:C4	3.09	0.41
1:C1:408:C:O2'	1:C1:1732:A:H1'	2.20	0.41
1:C1:449:C:O2	1:C1:449:C:C2'	2.69	0.41
1:C1:540:G:O4'	1:C1:541:A:OP1	2.39	0.41
1:C1:583:C:O2	1:C1:583:C:H2'	2.21	0.41
1:C1:601:A:H5"	1:C1:602:U:OP2	2.21	0.41
1:C1:643:G:N2	1:C1:692:C:N1	2.67	0.41
1:C1:719:U:H1'	1:C1:720:G:C5'	2.51	0.41
1:C1:727:U:N3	1:C1:728:U:H5	2.18	0.41
1:C1:755:A:C5	1:C1:756:A:C5	3.09	0.41
1:C1:824:G:O2'	1:C1:825:U:C2	2.73	0.41
1:C1:860:U:O4	1:C1:861:U:C4	2.74	0.41
1:C1:959:U:O4'	1:C1:959:U:P	2.79	0.41
1:C1:977:A:N6	1:C1:1025:A:C4	2.89	0.41
1:C1:985:G:C6	1:C1:986:G:O6	2.74	0.41
1:C1:989:U:O2'	9:CH:126:THR:CB	2.69	0.41
1:C1:1021:C:O2	1:C1:1021:C:H2'	2.20	0.41
1:C1:1063:U:H2'	1:C1:1064:G:H8	1.86	0.41
1:C1:1094:G:O2'	1:C1:1095:U:O5'	2.38	0.41
1:C1:1111:G:C6	1:C1:1112:G:C4	3.09	0.41
1:C1:1147:A:C5	1:C1:1148:C:C5	3.09	0.41
1:C1:1248:C:O2'	1:C1:1249:U:H5'	2.20	0.41
1:C1:1255:G:C4'	1:C1:1256:A:OP1	2.46	0.41
1:C1:1297:G:C2	1:C1:1300:A:OP2	2.74	0.41
1:C1:1329:A:C8	1:C1:1330:G:N7	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1359:C:C2	1:C1:1360:A:C8	3.09	0.41
1:C1:1369:U:O2	1:C1:1370:U:N3	2.53	0.41
1:C1:1371:A:C2	1:C1:1372:U:C6	3.08	0.41
1:C1:1378:U:O2	1:C1:1378:U:H2'	2.20	0.41
1:C1:1385:G:C2	1:C1:1386:G:C4	3.09	0.41
1:C1:1451:C:O2'	1:C1:1452:U:H5'	2.21	0.41
1:C1:1467:C:C4	1:C1:1468:U:C4	3.09	0.41
1:C1:1504:G:O6	1:C1:1505:A:C6	2.73	0.41
1:C1:1532:U:C2'	1:C1:1533:C:O5'	2.69	0.41
1:C1:1543:A:N6	1:C1:1568:C:H1'	2.36	0.41
1:C1:1558:U:H5	1:C1:1559:A:C2'	2.34	0.41
1:C1:1717:G:O6	1:C1:1718:G:N2	2.54	0.41
1:C1:1764:C:C6	1:C1:1767:G:C8	3.09	0.41
1:C1:1781:A:H2'	1:C1:1782:A:O4'	2.21	0.41
2:CA:59:LEU:C	2:CA:61:ALA:N	2.78	0.41
2:CA:101:ARG:O	2:CA:102:PHE:C	2.64	0.41
2:CA:183:ARG:C	2:CA:185:ARG:N	2.78	0.41
4:CC:14:ASP:O	4:CC:16:VAL:C	2.63	0.41
4:CC:30:ALA:C	4:CC:32:GLU:N	2.77	0.41
4:CC:80:ALA:HA	4:CC:83:THR:CB	2.51	0.41
4:CC:101:GLN:HA	4:CC:104:SER:CB	2.51	0.41
4:CC:191:ASP:C	4:CC:193:ALA:N	2.78	0.41
5:CD:120:ILE:O	5:CD:122:ASN:N	2.48	0.41
5:CD:192:GLU:C	5:CD:194:LEU:N	2.78	0.41
6:CE:108:ARG:HA	6:CE:147:MET:HA	2.03	0.41
6:CE:156:ILE:O	6:CE:158:PHE:N	2.54	0.41
6:CE:157:ASP:O	6:CE:159:ALA:N	2.46	0.41
7:CF:85:VAL:O	7:CF:107:VAL:O	2.38	0.41
11:CJ:131:GLY:CA	11:CJ:138:PHE:H	2.33	0.41
16:CO:8:ALA:O	16:CO:9:ASP:C	2.64	0.41
20:CS:42:CYS:C	20:CS:44:ARG:N	2.73	0.41
21:CT:74:THR:O	21:CT:77:GLY:N	2.51	0.41
21:CT:86:ASP:O	21:CT:87:LYS:CB	2.69	0.41
23:Cb:121:UNK:C	23:Cb:123:UNK:N	2.84	0.41
24:Cc:88:UNK:O	24:Cc:90:UNK:N	2.54	0.41
29:D1:10:C:N4	31:D3:148:G:C6	2.89	0.41
29:D1:16:A:C6	29:D1:17:G:C6	3.09	0.41
29:D1:40:A:OP2	54:DY:35:ALA:HB1	2.21	0.41
29:D1:41:G:H4'	29:D1:2410:U:H2'	2.03	0.41
29:D1:45:A:N3	29:D1:45:A:H2'	2.35	0.41
29:D1:53:G:N3	29:D1:54:C:C6	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:91:G:N2	29:D1:94:G:H3'	2.36	0.41
29:D1:109:A:N1	29:D1:323:A:C4	2.89	0.41
29:D1:111:C:H2'	29:D1:112:U:O5'	2.21	0.41
29:D1:114:A:O2'	29:D1:115:A:H5'	2.20	0.41
29:D1:114:A:H2'	29:D1:115:A:O4'	2.21	0.41
29:D1:146:U:O4	29:D1:147:U:C2	2.73	0.41
29:D1:157:A:O2'	29:D1:158:G:OP2	2.38	0.41
29:D1:170:G:C4	29:D1:171:G:C8	3.09	0.41
29:D1:177:U:C2	29:D1:178:U:C6	3.09	0.41
29:D1:257:U:C2'	29:D1:258:G:O5'	2.69	0.41
29:D1:277:G:C6	29:D1:278:U:N3	2.88	0.41
29:D1:306:A:C2	29:D1:307:A:N9	2.86	0.41
29:D1:314:U:C2	29:D1:315:C:C5	3.09	0.41
29:D1:407:A:C6	31:D3:17:A:N9	2.88	0.41
29:D1:409:A:H2'	29:D1:410:U:O4'	2.20	0.41
29:D1:431:U:O2'	29:D1:432:G:O5'	2.39	0.41
29:D1:576:C:H2'	29:D1:577:C:H5'	1.86	0.41
29:D1:597:G:N2	29:D1:607:A:C2	2.89	0.41
29:D1:598:A:C6	29:D1:599:C:C4	3.08	0.41
29:D1:636:C:C6	29:D1:2377:G:O2'	2.74	0.41
29:D1:744:A:H2'	29:D1:745:C:H6	1.84	0.41
29:D1:752:C:C2	29:D1:753:C:C6	3.09	0.41
29:D1:776:U:C5'	29:D1:777:U:C6	2.95	0.41
29:D1:807:A:N6	29:D1:934:G:H1	2.19	0.41
29:D1:815:G:N1	29:D1:906:A:C2	2.89	0.41
29:D1:822:G:C2	29:D1:823:C:C2	3.09	0.41
29:D1:934:G:C2	29:D1:935:U:C6	3.08	0.41
29:D1:956:U:H4'	29:D1:2725:U:O2	2.20	0.41
29:D1:965:A:P	74:D1:3568:OHX:N3	2.94	0.41
29:D1:967:A:H3'	29:D1:968:G:C8	2.56	0.41
29:D1:1041:U:C2'	29:D1:1042:U:H5'	2.48	0.41
29:D1:1063:G:O2'	29:D1:1064:A:O5'	2.38	0.41
29:D1:1065:A:H1'	29:D1:1093:A:N6	2.20	0.41
29:D1:1077:U:HO2'	29:D1:1078:U:P	2.44	0.41
29:D1:1139:G:H8	29:D1:1139:G:H5'	1.63	0.41
29:D1:1174:G:H2'	29:D1:1175:C:H6	1.86	0.41
29:D1:1184:A:H2'	29:D1:1185:C:O5'	2.21	0.41
29:D1:1190:A:C2	29:D1:1191:U:C6	2.93	0.41
29:D1:1193:A:N7	29:D1:1194:G:C6	2.85	0.41
29:D1:1196:C:C2	30:D2:86:U:N1	2.88	0.41
29:D1:1307:G:C2	29:D1:1308:A:N1	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1422:G:C6	29:D1:1423:C:C4	3.09	0.41
29:D1:1460:A:H2'	29:D1:1461:A:H8	1.86	0.41
29:D1:1519:G:N3	29:D1:1520:G:C8	2.89	0.41
29:D1:1556:C:N4	29:D1:2169:G:C8	2.76	0.41
29:D1:1560:G:C6	29:D1:1579:C:N3	2.89	0.41
29:D1:1599:G:H2'	29:D1:1600:U:O4'	2.20	0.41
29:D1:1631:C:C2'	29:D1:1632:A:OP2	2.69	0.41
29:D1:1685:C:C6	29:D1:1687:U:C5	3.09	0.41
29:D1:1692:U:H2'	29:D1:1693:C:H6	1.86	0.41
29:D1:1705:U:O2'	29:D1:1706:C:H6	2.04	0.41
29:D1:1837:U:O2'	29:D1:1842:A:N7	2.46	0.41
29:D1:1852:G:N3	29:D1:1852:G:H2'	2.35	0.41
29:D1:1912:U:O2	29:D1:2121:G:C8	2.74	0.41
29:D1:1953:G:N2	29:D1:2092:A:C5	2.89	0.41
29:D1:2155:G:H5"	33:DB:238:ILE:O	2.21	0.41
29:D1:2313:A:H4'	29:D1:2314:U:H5'	2.02	0.41
29:D1:2374:C:OP2	74:D1:3446:OHX:N3	2.54	0.41
29:D1:2394:G:O4'	34:DC:253:GLY:HA3	2.21	0.41
29:D1:2430:A:C5	29:D1:2431:C:C5	3.08	0.41
29:D1:2432:A:H5"	29:D1:2433:U:OP2	2.21	0.41
29:D1:2496:C:O5'	29:D1:2496:C:H6	2.04	0.41
29:D1:2530:G:OP2	29:D1:2530:G:H2'	2.21	0.41
29:D1:2576:G:C4	29:D1:2577:C:C6	3.08	0.41
29:D1:2590:A:C6	29:D1:2591:A:C8	3.09	0.41
29:D1:2609:A:C2	29:D1:2610:G:C8	3.09	0.41
29:D1:2646:C:O5'	29:D1:2646:C:H6	2.04	0.41
29:D1:2672:G:O2'	42:DK:105:GLY:C	2.64	0.41
29:D1:2693:C:H5"	29:D1:2694:A:H5'	2.03	0.41
29:D1:2706:G:C2	29:D1:2707:C:C4	3.09	0.41
29:D1:2730:G:N1	29:D1:2799:A:N6	2.69	0.41
29:D1:2855:U:C4	29:D1:2856:G:C8	3.09	0.41
29:D1:2931:C:N3	29:D1:2932:U:C5	2.89	0.41
29:D1:2946:A:H3'	29:D1:2946:A:C8	2.56	0.41
29:D1:2957:G:C6	29:D1:2976:A:C2	3.09	0.41
29:D1:2965:U:H2'	29:D1:2966:G:H5'	2.03	0.41
29:D1:2970:C:C3'	29:D1:2971:A:C5'	2.88	0.41
29:D1:2980:U:C2	29:D1:2981:U:C6	3.09	0.41
29:D1:3056:U:C2	29:D1:3079:U:O4	2.74	0.41
29:D1:3069:G:C4	29:D1:3070:A:C8	3.09	0.41
29:D1:3263:G:C2	29:D1:3264:G:C4	3.09	0.41
29:D1:3294:A:C6	29:D1:3295:A:C4	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3296:A:C6	29:D1:3297:U:C5	3.09	0.41
29:D1:3334:U:O2	29:D1:3334:U:H2'	2.20	0.41
30:D2:1:G:N2	30:D2:2:G:C5	2.89	0.41
30:D2:15:C:C2	30:D2:66:A:C2	3.08	0.41
30:D2:20:A:C6	30:D2:60:G:N1	2.88	0.41
30:D2:37:G:N3	30:D2:45:A:N1	2.68	0.41
30:D2:38:U:H2'	30:D2:40:C:H5"	2.01	0.41
30:D2:90:U:H2'	30:D2:91:G:O4'	2.20	0.41
31:D3:52:A:C5	31:D3:53:A:C8	3.08	0.41
31:D3:64:U:C4	31:D3:97:A:C2	3.09	0.41
31:D3:70:G:O5'	31:D3:71:A:OP2	2.38	0.41
31:D3:104:A:H8	31:D3:105:A:C8	2.38	0.41
33:DB:124:GLY:O	33:DB:125:ALA:C	2.62	0.41
34:DC:217:ALA:O	34:DC:218:ILE:CB	2.68	0.41
34:DC:306:THR:C	34:DC:308:MET:H	2.26	0.41
34:DC:339:ARG:O	34:DC:340:LYS:O	2.38	0.41
35:DD:12:THR:O	35:DD:15:ALA:HB1	2.21	0.41
35:DD:13:GLY:N	35:DD:14:GLU:HA	2.36	0.41
35:DD:101:ALA:O	35:DD:102:PRO:CB	2.67	0.41
35:DD:126:ILE:C	35:DD:128:ALA:H	2.27	0.41
35:DD:211:GLU:O	35:DD:212:ASP:CB	2.69	0.41
36:DE:14:SER:C	36:DE:16:PHE:H	2.29	0.41
36:DE:18:THR:CB	36:DE:19:PRO:CA	2.90	0.41
36:DE:106:ALA:N	36:DE:109:THR:CB	2.84	0.41
36:DE:115:LEU:O	36:DE:118:THR:C	2.64	0.41
37:DF:61:ASN:HA	37:DF:80:ASN:C	2.43	0.41
38:DG:39:GLU:O	38:DG:41:ARG:N	2.53	0.41
39:DH:131:ALA:O	39:DH:132:VAL:CB	2.67	0.41
40:DI:139:ASN:HA	40:DI:140:VAL:CB	2.51	0.41
41:DJ:99:ILE:O	41:DJ:120:GLY:HA2	2.21	0.41
42:DK:155:THR:O	42:DK:158:ASP:N	2.45	0.41
72:DL:140:GLY:O	72:DL:141:CYS:CB	2.68	0.41
45:DP:130:LYS:CB	45:DP:131:PRO:CB	2.99	0.41
45:DP:176:LYS:O	45:DP:177:LYS:C	2.63	0.41
45:DP:187:GLU:O	45:DP:190:VAL:N	2.54	0.41
47:DR:72:LYS:HA	47:DR:73:GLN:HA	1.58	0.41
50:DU:65:GLY:O	50:DU:67:PRO:N	2.53	0.41
50:DU:134:GLY:O	50:DU:135:VAL:O	2.38	0.41
56:Da:5:LYS:HA	56:Da:6:ASP:CB	2.51	0.41
56:Da:20:LEU:C	56:Da:22:GLY:N	2.77	0.41
57:Db:6:HIS:O	57:Db:7:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:Db:33:ARG:O	57:Db:34:LYS:C	2.64	0.41
57:Db:100:ILE:O	57:Db:101:SER:O	2.39	0.41
59:Dd:36:SER:CB	74:Dd:101:OHX:N6	2.84	0.41
60:De:11:GLN:O	60:De:14:ALA:HB3	2.21	0.41
60:De:43:ASN:O	60:De:45:ARG:N	2.54	0.41
62:Dg:59:CYS:O	74:Dg:101:OHX:N5	2.54	0.41
1:A1:22:A:C5	1:A1:604:A:N1	2.89	0.41
1:A1:111:U:C6	1:A1:304:U:C4	3.09	0.41
1:A1:121:U:H2'	1:A1:122:U:O5'	2.20	0.41
1:A1:147:A:C5	1:A1:148:A:C5	3.09	0.41
1:A1:267:U:OP2	1:A1:267:U:H6	2.03	0.41
1:A1:340:U:C4	1:A1:341:A:N7	2.89	0.41
1:A1:359:A:H3'	1:A1:359:A:N3	2.36	0.41
1:A1:571:G:H3'	1:A1:572:C:H6	1.85	0.41
1:A1:602:U:H2'	1:A1:603:U:C6	2.56	0.41
1:A1:922:G:O2'	1:A1:923:A:C8	2.64	0.41
1:A1:930:A:H3'	1:A1:931:C:C5	2.56	0.41
1:A1:945:U:O2	1:A1:946:U:C6	2.74	0.41
1:A1:1015:U:OP1	74:A1:1923:OHX:N5	2.54	0.41
1:A1:1050:G:C5	1:A1:1051:G:H1'	2.51	0.41
1:A1:1141:G:C2	1:A1:1142:A:C8	3.08	0.41
1:A1:1239:U:H2'	1:A1:1240:U:H5	1.86	0.41
1:A1:1345:A:H2'	1:A1:1346:A:C4	2.54	0.41
1:A1:1429:G:C4	1:A1:1430:U:C6	3.09	0.41
1:A1:1552:U:O2	1:A1:1553:G:C1'	2.69	0.41
1:A1:1559:A:N3	1:A1:1559:A:C2'	2.69	0.41
1:A1:1631:A:H4'	74:A1:1990:OHX:N5	2.36	0.41
1:A1:1672:G:C6	1:A1:1673:G:O6	2.74	0.41
1:A1:1744:A:C6	1:A1:1745:G:C6	3.09	0.41
2:AA:32:HIS:C	2:AA:34:GLU:N	2.79	0.41
2:AA:52:LYS:O	2:AA:54:TRP:N	2.54	0.41
2:AA:181:VAL:C	2:AA:183:ARG:N	2.75	0.41
3:AB:203:LYS:C	3:AB:205:ARG:H	2.29	0.41
3:AB:228:ASN:HA	3:AB:229:LEU:HA	1.66	0.41
4:AC:94:ARG:O	4:AC:95:GLY:C	2.64	0.41
5:AD:149:VAL:CB	5:AD:157:ARG:H	2.34	0.41
6:AE:23:ARG:O	6:AE:26:ALA:HB3	2.21	0.41
6:AE:58:ASP:O	6:AE:59:LEU:C	2.64	0.41
6:AE:61:THR:CB	6:AE:62:ARG:HA	2.51	0.41
11:AJ:106:LYS:O	11:AJ:108:ALA:N	2.54	0.41
14:AM:17:ALA:C	14:AM:19:ALA:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:58:ALA:H	14:AM:60:SER:H	1.69	0.41
14:AM:113:ILE:HA	14:AM:125:SER:CB	2.51	0.41
15:AN:101:LYS:C	15:AN:103:ILE:N	2.79	0.41
29:B1:11:A:H4'	29:B1:1558:A:H2	1.84	0.41
29:B1:75:G:C6	29:B1:76:G:C6	3.09	0.41
29:B1:131:C:O2	29:B1:132:C:H1'	2.21	0.41
29:B1:283:G:N2	29:B1:285:A:N6	2.69	0.41
29:B1:318:A:C2'	29:B1:319:A:OP1	2.69	0.41
29:B1:379:C:N4	29:B1:390:G:H1	2.19	0.41
29:B1:396:A:O2'	29:B1:397:A:O5'	2.39	0.41
29:B1:504:A:C2'	29:B1:505:G:C5'	2.99	0.41
29:B1:515:C:C6	29:B1:515:C:OP2	2.74	0.41
29:B1:554:A:C3'	29:B1:555:U:H5"	2.51	0.41
29:B1:573:C:H2'	29:B1:574:U:H5	1.83	0.41
29:B1:595:G:C2'	29:B1:596:C:O4'	2.69	0.41
29:B1:597:G:O2'	29:B1:598:A:O4'	2.39	0.41
29:B1:639:G:H2'	29:B1:640:U:C5'	2.51	0.41
29:B1:728:G:C2	29:B1:742:G:C6	3.09	0.41
29:B1:795:G:H1'	29:B1:1111:U:H5"	2.02	0.41
29:B1:807:A:H62	29:B1:934:G:H1	1.69	0.41
29:B1:811:U:O2	29:B1:812:G:C8	2.74	0.41
29:B1:1029:G:N7	29:B1:1030:A:N7	2.69	0.41
29:B1:1076:C:C5'	29:B1:1077:U:OP2	2.67	0.41
29:B1:1084:A:N6	29:B1:1085:A:C6	2.89	0.41
29:B1:1084:A:C8	29:B1:1085:A:N7	2.89	0.41
29:B1:1090:G:O2'	29:B1:1091:A:H5'	2.20	0.41
29:B1:1109:U:O2	29:B1:1109:U:H2'	2.21	0.41
29:B1:1150:A:C4	29:B1:1151:U:C6	3.09	0.41
29:B1:1152:G:O2'	29:B1:1153:A:C5'	2.69	0.41
29:B1:1230:G:H2'	29:B1:1231:A:C8	2.56	0.41
29:B1:1237:G:OP2	29:B1:1246:G:H4'	2.21	0.41
29:B1:1245:A:H5'	29:B1:1247:U:OP2	2.21	0.41
29:B1:1323:G:C3'	29:B1:1324:U:C5'	2.87	0.41
29:B1:1401:A:N6	29:B1:1411:C:N4	2.68	0.41
29:B1:1409:G:H2'	29:B1:1410:U:H5'	2.03	0.41
29:B1:1422:G:H2'	29:B1:1423:C:C6	2.49	0.41
29:B1:1588:A:H4'	29:B1:1589:A:OP2	2.19	0.41
29:B1:1868:G:C4	29:B1:1869:C:C6	3.09	0.41
29:B1:1908:A:N7	29:B1:1909:A:C5	2.89	0.41
29:B1:1911:A:H3'	29:B1:1911:A:C8	2.56	0.41
29:B1:2144:A:C4	29:B1:2281:A:N6	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2163:C:O2	29:B1:2163:C:C2'	2.68	0.41
29:B1:2173:U:C2	29:B1:2174:G:N7	2.89	0.41
29:B1:2284:C:C4	29:B1:2308:C:OP2	2.73	0.41
29:B1:2308:C:C5	29:B1:2309:A:C5	3.09	0.41
29:B1:2432:A:H5"	29:B1:2433:U:OP2	2.21	0.41
29:B1:2602:G:C5	29:B1:2603:G:N7	2.89	0.41
29:B1:2626:A:H5'	29:B1:2627:C:O5'	2.21	0.41
29:B1:2674:A:H2'	29:B1:2675:C:H5"	2.02	0.41
29:B1:2703:A:H3'	29:B1:2704:A:H5"	2.02	0.41
29:B1:2717:U:H2'	29:B1:2718:U:C6	2.56	0.41
29:B1:2730:G:N1	29:B1:2799:A:N6	2.68	0.41
29:B1:2814:G:N1	29:B1:2815:G:C5	2.89	0.41
29:B1:2857:C:H2'	29:B1:2858:U:O4'	2.21	0.41
29:B1:2868:U:C6	29:B1:2869:U:H5	2.38	0.41
29:B1:2908:G:C6	29:B1:2909:U:C5	3.09	0.41
29:B1:2984:C:N3	29:B1:2985:C:C5	2.89	0.41
29:B1:3131:U:O2	29:B1:3131:U:C2'	2.65	0.41
29:B1:3242:G:N2	29:B1:3244:A:C8	2.63	0.41
29:B1:3253:G:H2'	29:B1:3254:G:O4'	2.21	0.41
29:B1:3337:G:H2'	29:B1:3338:C:O4'	2.21	0.41
29:B1:3343:G:C5	29:B1:3344:A:N6	2.89	0.41
30:B2:11:A:H2	36:BE:16:PHE:CA	2.19	0.41
31:B3:24:G:H2'	31:B3:25:G:C5'	2.51	0.41
31:B3:147:U:N3	31:B3:148:G:N7	2.68	0.41
33:BB:91:GLY:O	33:BB:93:LYS:N	2.54	0.41
34:BC:12:GLY:O	34:BC:13:HIS:O	2.39	0.41
34:BC:160:VAL:C	34:BC:161:LEU:O	2.62	0.41
34:BC:283:TYR:O	34:BC:284:ARG:C	2.64	0.41
35:BD:121:ALA:O	35:BD:122:THR:C	2.64	0.41
40:BI:66:ALA:O	40:BI:67:ALA:C	2.64	0.41
40:BI:136:PHE:HA	40:BI:144:ILE:HA	2.02	0.41
42:BK:34:SER:O	42:BK:37:LEU:N	2.54	0.41
43:BN:101:LYS:C	43:BN:103:ILE:N	2.79	0.41
44:BO:136:ASP:O	44:BO:138:GLN:N	2.54	0.41
44:BO:185:ALA:C	44:BO:187:ARG:CA	2.67	0.41
45:BP:54:TYR:C	45:BP:56:ASP:N	2.76	0.41
49:BT:26:HIS:C	49:BT:28:SER:N	2.79	0.41
56:Ba:17:HIS:N	56:Ba:69:TYR:O	2.52	0.41
57:Bb:66:LEU:HA	57:Bb:67:SER:O	2.21	0.41
58:Bc:23:ASP:O	58:Bc:24:LEU:C	2.64	0.41
1:C1:32:U:C2'	1:C1:33:U:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:61:A:N7	74:C1:1952:OHX:N2	2.69	0.41
1:C1:121:U:H2'	1:C1:122:U:C4'	2.50	0.41
1:C1:129:U:O2'	1:C1:130:C:P	2.79	0.41
1:C1:150:U:O3'	1:C1:151:G:O4'	2.39	0.41
1:C1:196:G:C6	1:C1:197:A:C2	3.08	0.41
1:C1:198:A:C1'	1:C1:199:G:OP1	2.69	0.41
1:C1:202:A:H3'	1:C1:202:A:C8	2.56	0.41
1:C1:315:A:C5	1:C1:350:U:C5	3.01	0.41
1:C1:341:A:C6	1:C1:342:C:C4	3.09	0.41
1:C1:804:A:O2'	1:C1:805:U:H5'	2.21	0.41
1:C1:863:A:C8	1:C1:865:A:N7	2.89	0.41
1:C1:1068:C:C2	1:C1:1069:A:C8	3.09	0.41
1:C1:1146:G:C4	1:C1:1147:A:N7	2.88	0.41
1:C1:1178:G:N3	1:C1:1462:G:C2	2.89	0.41
1:C1:1283:U:H3'	1:C1:1284:C:C6	2.55	0.41
1:C1:1349:G:O4'	1:C1:1350:U:O5'	2.39	0.41
1:C1:1365:C:H3'	1:C1:1365:C:H6	1.85	0.41
1:C1:1366:U:C5	74:C1:2001:OHX:N3	2.89	0.41
1:C1:1370:U:C2	1:C1:1371:A:H8	2.39	0.41
1:C1:1377:U:O2	1:C1:1378:U:H1'	2.20	0.41
1:C1:1538:U:H5	1:C1:1540:G:N7	2.19	0.41
1:C1:1540:G:C5	1:C1:1541:G:N7	2.89	0.41
1:C1:1543:A:C2'	1:C1:1544:U:H5'	2.51	0.41
1:C1:1629:G:C2'	1:C1:1630:U:O4'	2.66	0.41
1:C1:1671:A:N3	1:C1:1671:A:H2'	2.36	0.41
1:C1:1721:A:O3'	1:C1:1722:A:H4'	2.16	0.41
1:C1:1756:A:C8	1:C1:1756:A:C3'	3.05	0.41
2:CA:93:THR:O	2:CA:95:ALA:N	2.54	0.41
4:CC:9:ARG:O	4:CC:10:LYS:C	2.64	0.41
5:CD:164:PRO:O	5:CD:166:ARG:N	2.54	0.41
13:CL:72:ILE:C	13:CL:74:GLN:H	2.27	0.41
29:D1:60:A:C5	29:D1:328:U:N3	2.89	0.41
29:D1:130:A:C6	29:D1:132:C:N4	2.89	0.41
29:D1:209:A:H4'	29:D1:211:A:N7	2.35	0.41
29:D1:245:U:O4	74:D1:3495:OHX:N1	2.53	0.41
29:D1:258:G:N2	29:D1:259:C:N1	2.69	0.41
29:D1:264:G:C5	29:D1:265:A:C5	3.09	0.41
29:D1:408:A:C2	29:D1:409:A:N3	2.89	0.41
29:D1:563:U:N1	29:D1:564:G:O4'	2.54	0.41
29:D1:608:A:N6	29:D1:609:G:C5	2.88	0.41
29:D1:667:C:O2	29:D1:667:C:C2'	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:716:A:O3'	29:D1:717:C:H4'	2.18	0.41
29:D1:739:G:C2'	29:D1:740:G:C8	2.99	0.41
29:D1:763:G:N7	29:D1:764:U:C2	2.89	0.41
29:D1:771:A:N6	29:D1:772:U:H3	2.19	0.41
29:D1:873:C:H4'	29:D1:1908:A:H5'	2.03	0.41
29:D1:919:U:C4	29:D1:923:C:N3	2.89	0.41
29:D1:939:U:C2'	29:D1:940:G:O5'	2.68	0.41
29:D1:953:G:C1'	29:D1:1115:G:H4'	2.51	0.41
29:D1:959:C:OP1	29:D1:2800:G:OP2	2.39	0.41
29:D1:1021:G:N1	29:D1:1032:C:C2	2.89	0.41
29:D1:1042:U:C2'	29:D1:1043:C:O5'	2.69	0.41
29:D1:1127:G:N1	29:D1:1129:A:H5"	2.36	0.41
29:D1:1184:A:C6	29:D1:1323:G:C6	3.09	0.41
29:D1:1251:A:H3'	74:D1:3557:OHX:N2	2.36	0.41
29:D1:1317:A:C5	29:D1:1319:G:C8	3.09	0.41
29:D1:1330:A:C2'	29:D1:1331:U:O5'	2.68	0.41
29:D1:1524:A:N9	29:D1:1607:U:O2	2.53	0.41
29:D1:1605:A:OP1	29:D1:1835:A:H5"	2.21	0.41
29:D1:1684:U:C6	29:D1:1684:U:C3'	3.04	0.41
29:D1:1777:U:H3'	29:D1:1777:U:H6	1.85	0.41
29:D1:1851:G:OP1	74:D1:3576:OHX:N2	2.54	0.41
29:D1:1916:U:C4	29:D1:1917:C:N4	2.89	0.41
29:D1:1921:A:N9	29:D1:1932:A:N6	2.69	0.41
29:D1:2151:C:O2'	29:D1:2243:A:N6	2.54	0.41
29:D1:2167:A:H3'	29:D1:2168:A:C8	2.51	0.41
29:D1:2170:U:O2	29:D1:2170:U:C2'	2.67	0.41
29:D1:2181:C:N3	29:D1:2182:A:N7	2.69	0.41
29:D1:2193:U:C4'	29:D1:2194:G:OP2	2.69	0.41
29:D1:2234:G:C5	29:D1:2235:C:C5	3.09	0.41
29:D1:2337:C:C2	29:D1:2338:C:C5	3.09	0.41
29:D1:2352:A:O3'	46:DQ:85:ALA:HB3	2.21	0.41
29:D1:2417:U:O4	29:D1:2804:A:N1	2.54	0.41
29:D1:2422:C:C2	29:D1:2423:U:C5	3.09	0.41
29:D1:2649:A:N1	29:D1:2650:U:C5	2.89	0.41
29:D1:2665:U:C2	29:D1:2706:G:N1	2.89	0.41
29:D1:2681:U:O2'	29:D1:2682:C:O5'	2.38	0.41
29:D1:2716:U:N3	29:D1:2717:U:H5	2.19	0.41
29:D1:2852:C:H5	29:D1:2853:A:C4	2.36	0.41
29:D1:2925:C:C5	29:D1:2926:A:N7	2.88	0.41
29:D1:2946:A:H2'	29:D1:2982:A:N7	2.36	0.41
29:D1:2966:G:H8	29:D1:2966:G:O5'	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3102:G:C8	29:D1:3102:G:C3'	3.04	0.41
29:D1:3144:G:O6	74:D1:3431:OHX:N1	2.54	0.41
29:D1:3150:A:C4	29:D1:3151:U:H5"	2.56	0.41
29:D1:3169:U:O4	29:D1:3170:A:N6	2.54	0.41
29:D1:3196:U:C6	29:D1:3197:G:C2	3.08	0.41
29:D1:3196:U:H6	29:D1:3197:G:N2	2.16	0.41
29:D1:3328:G:HO2'	29:D1:3329:U:C4'	2.32	0.41
30:D2:9:C:C6	30:D2:9:C:OP2	2.73	0.41
30:D2:113:C:C2'	30:D2:114:U:H6	2.34	0.41
31:D3:37:A:H2	31:D3:106:C:N4	2.13	0.41
31:D3:56:G:C4	31:D3:57:C:C6	3.09	0.41
31:D3:75:G:OP1	31:D3:90:U:O5'	2.39	0.41
31:D3:81:U:C2'	31:D3:82:U:H5"	2.51	0.41
31:D3:99:C:C5'	31:D3:100:U:OP1	2.69	0.41
32:DA:118:LYS:HA	32:DA:136:THR:N	2.36	0.41
34:DC:1:MET:C	34:DC:2:SER:O	2.63	0.41
35:DD:8:VAL:H	35:DD:19:ALA:HA	1.86	0.41
36:DE:92:LEU:O	36:DE:93:THR:CB	2.69	0.41
36:DE:194:LEU:C	36:DE:196:ARG:H	2.28	0.41
36:DE:226:TYR:CB	36:DE:232:ASP:H	2.33	0.41
37:DF:41:ILE:O	37:DF:84:VAL:C	2.64	0.41
37:DF:121:LEU:C	37:DF:123:PRO:N	2.79	0.41
38:DG:98:LYS:C	38:DG:100:ARG:N	2.77	0.41
41:DJ:66:GLU:C	41:DJ:68:ALA:N	2.79	0.41
41:DJ:121:LYS:O	41:DJ:122:PRO:O	2.39	0.41
73:DM:198:PRO:C	73:DM:200:SER:H	2.28	0.41
44:DO:144:ARG:C	44:DO:146:ALA:N	2.78	0.41
45:DP:166:GLU:O	45:DP:167:TYR:C	2.64	0.41
47:DR:49:LEU:O	47:DR:52:LEU:N	2.54	0.41
47:DR:111:ARG:O	47:DR:112:ALA:HB2	2.21	0.41
53:DX:78:PHE:O	53:DX:79:ALA:CB	2.69	0.41
59:Dd:5:THR:O	59:Dd:7:SER:N	2.54	0.41
60:De:6:SER:O	60:De:10:LYS:N	2.52	0.41
65:Dk:6:UNK:O	65:Dk:9:UNK:N	2.54	0.41
1:A1:43:A:O2'	1:A1:44:U:H5"	2.18	0.40
1:A1:94:U:O2	1:A1:94:U:O4'	2.38	0.40
1:A1:121:U:C2'	1:A1:122:U:O5'	2.69	0.40
1:A1:228:G:C2	1:A1:229:U:O2	2.74	0.40
1:A1:268:C:C4	1:A1:288:A:C2	3.09	0.40
1:A1:303:U:H2'	1:A1:304:U:H6	1.85	0.40
1:A1:341:A:C6	1:A1:342:C:N4	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:343:C:H2'	1:A1:344:A:C8	2.55	0.40
1:A1:519:C:N4	1:A1:534:A:N1	2.69	0.40
1:A1:551:G:C2	1:A1:552:G:C4	3.10	0.40
1:A1:648:G:C2	1:A1:649:U:C6	3.09	0.40
1:A1:683:C:H2'	1:A1:684:A:O5'	2.21	0.40
1:A1:886:U:H2'	1:A1:887:A:C1'	2.52	0.40
1:A1:1207:C:H4'	1:A1:1208:A:O5'	2.21	0.40
1:A1:1224:A:C2	1:A1:1225:U:N3	2.89	0.40
1:A1:1241:G:C4	1:A1:1243:G:OP2	2.73	0.40
1:A1:1317:C:C4	1:A1:1318:G:C5	3.10	0.40
1:A1:1381:U:H3'	1:A1:1381:U:C6	2.56	0.40
1:A1:1401:A:N7	1:A1:1402:G:C8	2.89	0.40
1:A1:1414:U:O2	1:A1:1414:U:O4'	2.39	0.40
1:A1:1425:A:O2'	1:A1:1426:C:H5'	2.22	0.40
1:A1:1534:G:H4'	1:A1:1536:G:C5	2.56	0.40
1:A1:1540:G:C6	1:A1:1541:G:C4	3.09	0.40
1:A1:1560:U:O5'	1:A1:1560:U:N1	2.55	0.40
1:A1:1608:U:H2'	1:A1:1609:U:H6	1.85	0.40
1:A1:1676:U:C3'	1:A1:1677:C:H5'	2.51	0.40
1:A1:1683:C:H3'	1:A1:1683:C:P	2.62	0.40
1:A1:1705:C:C5	1:A1:1706:C:C5	3.09	0.40
1:A1:1717:G:N3	1:A1:1717:G:H2'	2.36	0.40
1:A1:1764:C:OP2	1:A1:1771:U:C5'	2.70	0.40
2:AA:6:THR:C	2:AA:8:ASP:N	2.79	0.40
3:AB:188:LEU:O	3:AB:190:LEU:N	2.54	0.40
5:AD:58:LEU:O	5:AD:59:VAL:C	2.64	0.40
6:AE:179:ARG:C	6:AE:181:ALA:N	2.79	0.40
8:AG:139:TRP:N	8:AG:142:GLU:H	2.19	0.40
9:AH:89:THR:CA	9:AH:90:ARG:C	2.91	0.40
11:AJ:18:ALA:HB1	11:AJ:84:ALA:HB2	2.02	0.40
16:AO:52:TYR:CA	23:Ab:5:UNK:O	2.69	0.40
19:AR:8:THR:HA	19:AR:51:ASN:N	2.35	0.40
21:AT:85:TRP:C	21:AT:87:LYS:N	2.78	0.40
21:AT:218:GLY:O	21:AT:236:ALA:HB3	2.21	0.40
21:AT:224:ASN:O	21:AT:228:LYS:N	2.54	0.40
29:B1:11:A:C2	31:B3:148:G:C5	3.09	0.40
29:B1:87:U:O2	29:B1:87:U:C2'	2.65	0.40
29:B1:107:A:H2'	29:B1:108:A:O5'	2.21	0.40
29:B1:166:C:N4	29:B1:167:U:O4	2.55	0.40
29:B1:189:G:C4	29:B1:191:U:O4	2.74	0.40
29:B1:195:U:O2	29:B1:196:G:C1'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:235:A:H2'	29:B1:236:G:H8	1.80	0.40
29:B1:268:A:C8	29:B1:270:U:O2	2.74	0.40
29:B1:342:A:O4'	29:B1:344:A:N6	2.54	0.40
29:B1:359:U:O2'	29:B1:360:G:H5'	2.21	0.40
29:B1:505:G:C8	29:B1:506:U:C5	3.09	0.40
29:B1:545:U:C2	29:B1:546:C:N3	2.90	0.40
29:B1:546:C:C5	29:B1:547:G:C4	3.09	0.40
29:B1:561:C:C2'	29:B1:562:C:OP2	2.68	0.40
29:B1:597:G:N3	29:B1:598:A:N9	2.68	0.40
29:B1:697:A:N6	29:B1:699:A:C2	2.89	0.40
29:B1:734:C:H5"	29:B1:735:A:N1	2.35	0.40
29:B1:792:G:H2'	29:B1:793:C:C5	2.56	0.40
29:B1:841:A:H5"	48:BS:126:GLU:HA	2.02	0.40
29:B1:847:A:N3	29:B1:848:A:C8	2.89	0.40
29:B1:856:G:C5	29:B1:857:G:N1	2.89	0.40
29:B1:957:C:H4'	29:B1:2799:A:C8	2.56	0.40
29:B1:1167:U:C6	29:B1:1167:U:C5'	2.92	0.40
29:B1:1168:U:O4	29:B1:1330:A:C8	2.73	0.40
29:B1:1319:G:N3	29:B1:1320:C:C6	2.89	0.40
29:B1:1464:G:N2	29:B1:1466:G:O5'	2.53	0.40
29:B1:1638:A:C2	29:B1:1736:G:N2	2.85	0.40
29:B1:1688:U:C2'	29:B1:1689:U:H5	2.29	0.40
29:B1:1753:G:H2'	29:B1:1754:G:H8	1.86	0.40
29:B1:1771:C:C4	29:B1:1772:U:C4	3.09	0.40
29:B1:1794:G:C6	33:BB:185:ALA:HB1	2.56	0.40
29:B1:1797:A:N6	29:B1:1798:A:C6	2.90	0.40
29:B1:1806:A:C2	29:B1:1807:G:H1'	2.57	0.40
29:B1:1849:C:H4'	29:B1:1850:A:OP2	2.20	0.40
29:B1:2146:C:N4	29:B1:2147:A:N6	2.68	0.40
29:B1:2234:G:O6	74:B1:3599:OHX:N3	2.54	0.40
29:B1:2274:U:C5	29:B1:2311:G:N2	2.89	0.40
29:B1:2278:C:C4	29:B1:2305:G:N7	2.89	0.40
29:B1:2413:A:C2'	29:B1:2414:G:O5'	2.69	0.40
29:B1:2515:A:N6	29:B1:2592:G:O2'	2.54	0.40
29:B1:2603:G:N2	29:B1:2604:U:H1'	2.36	0.40
29:B1:2676:A:H4'	29:B1:2677:G:N9	2.36	0.40
29:B1:2831:G:C5	29:B1:2832:C:C5	3.08	0.40
29:B1:2886:U:C4	29:B1:2911:A:C6	3.09	0.40
29:B1:2886:U:C2	29:B1:2911:A:N6	2.89	0.40
29:B1:2888:U:C2	29:B1:2911:A:C6	3.09	0.40
29:B1:2891:U:H6	29:B1:2891:U:O5'	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3057:U:O2'	29:B1:3058:U:C4'	2.66	0.40
29:B1:3092:C:O3'	29:B1:3093:C:H3'	2.21	0.40
29:B1:3153:U:O4	29:B1:3160:U:H1'	2.21	0.40
29:B1:3163:A:OP2	29:B1:3163:A:C8	2.69	0.40
29:B1:3237:U:H2'	29:B1:3238:G:N7	2.34	0.40
29:B1:3323:A:C5	29:B1:3324:C:C5	3.09	0.40
30:B2:1:G:N3	30:B2:1:G:C2'	2.73	0.40
31:B3:9:A:H2'	31:B3:9:A:N3	2.36	0.40
31:B3:19:C:C4	31:B3:20:U:O4	2.74	0.40
31:B3:74:U:O4	31:B3:77:A:C5'	2.69	0.40
31:B3:99:C:H5"	31:B3:100:U:OP1	2.20	0.40
31:B3:141:C:H2'	31:B3:142:C:C6	2.51	0.40
31:B3:142:C:H3'	31:B3:143:U:C6	2.56	0.40
33:BB:231:SER:C	33:BB:233:GLN:N	2.78	0.40
34:BC:296:THR:N	34:BC:297:SER:HA	2.36	0.40
36:BE:32:GLN:O	36:BE:33:ARG:C	2.64	0.40
36:BE:124:GLU:O	36:BE:169:GLY:HA2	2.22	0.40
36:BE:141:PRO:HA	36:BE:143:LYS:H	1.86	0.40
37:BF:10:TYR:O	37:BF:11:PRO:CB	2.70	0.40
38:BG:144:ILE:O	38:BG:145:ARG:O	2.40	0.40
39:BH:206:GLU:C	39:BH:208:GLU:N	2.79	0.40
39:BH:211:LEU:O	39:BH:215:VAL:CB	2.69	0.40
39:BH:230:LYS:N	39:BH:231:LYS:O	2.54	0.40
42:BK:155:THR:HA	42:BK:159:THR:CB	2.51	0.40
43:BN:34:ALA:O	43:BN:47:ASP:N	2.54	0.40
44:BO:79:ALA:HA	44:BO:80:THR:O	2.21	0.40
46:BQ:127:ARG:CB	46:BQ:139:TYR:O	2.69	0.40
47:BR:113:LYS:C	47:BR:115:VAL:N	2.78	0.40
48:BS:12:ALA:C	48:BS:14:VAL:N	2.75	0.40
52:BW:69:SER:O	52:BW:70:GLU:C	2.64	0.40
54:BY:27:LYS:C	54:BY:29:PRO:N	2.79	0.40
54:BY:131:SER:CB	54:BY:134:ALA:CB	2.99	0.40
61:Bf:20:HIS:O	61:Bf:21:THR:CB	2.69	0.40
61:Bf:47:GLN:H	61:Bf:48:SER:CA	2.26	0.40
62:Bg:86:LEU:C	62:Bg:88:GLU:N	2.77	0.40
63:Bh:39:UNK:C	63:Bh:42:UNK:N	2.84	0.40
1:C1:46:A:H8	1:C1:46:A:OP1	2.04	0.40
1:C1:139:C:C5	1:C1:176:C:C2	3.09	0.40
1:C1:331:A:C2	1:C1:332:U:N1	2.89	0.40
1:C1:454:U:O2'	1:C1:455:C:C5'	2.70	0.40
1:C1:511:A:H4'	1:C1:511:A:OP1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:640:U:H3'	1:C1:641:G:H8	1.85	0.40
1:C1:649:U:C2	1:C1:650:U:C6	3.09	0.40
1:C1:714:G:C6	1:C1:715:U:O4	2.74	0.40
1:C1:749:U:C2	1:C1:801:G:C2	3.09	0.40
1:C1:752:A:N6	1:C1:753:A:N6	2.68	0.40
1:C1:766:U:C5	1:C1:769:A:OP2	2.71	0.40
1:C1:819:G:N1	1:C1:854:U:N3	2.67	0.40
1:C1:827:C:O2'	1:C1:828:U:OP1	2.39	0.40
1:C1:865:A:C4	1:C1:866:G:C8	3.09	0.40
1:C1:1146:G:C6	1:C1:1633:A:N6	2.88	0.40
1:C1:1207:C:O2	1:C1:1455:G:N1	2.54	0.40
1:C1:1382:A:H5"	15:CN:60:THR:N	2.36	0.40
1:C1:1396:U:H6	1:C1:1396:U:H2'	1.69	0.40
1:C1:1416:G:O5'	1:C1:1416:G:H8	2.04	0.40
1:C1:1425:A:H2'	1:C1:1426:C:H5'	2.02	0.40
1:C1:1478:G:O2'	1:C1:1479:A:O4'	2.39	0.40
1:C1:1606:C:H2'	1:C1:1607:G:H8	1.83	0.40
1:C1:1607:G:N1	1:C1:1608:U:C4	2.89	0.40
1:C1:1660:A:O2'	1:C1:1661:U:H5'	2.21	0.40
2:CA:30:GLN:O	2:CA:31:VAL:C	2.65	0.40
3:CB:51:THR:HA	3:CB:52:THR:HA	1.75	0.40
4:CC:117:ARG:HA	4:CC:120:TYR:CB	2.51	0.40
4:CC:130:GLY:O	4:CC:131:ALA:HB2	2.22	0.40
4:CC:151:LYS:O	4:CC:152:PHE:CB	2.69	0.40
5:CD:169:ASN:C	5:CD:171:ALA:N	2.77	0.40
8:CG:96:VAL:O	8:CG:97:SER:C	2.63	0.40
9:CH:8:ARG:HA	9:CH:9:ASP:HA	1.96	0.40
12:CK:53:TYR:O	12:CK:54:THR:C	2.62	0.40
14:CM:65:ILE:C	14:CM:67:MET:N	2.73	0.40
20:CS:46:LYS:O	20:CS:49:ASP:N	2.54	0.40
23:Cb:75:UNK:O	23:Cb:78:UNK:N	2.54	0.40
24:Cc:30:UNK:O	24:Cc:33:UNK:N	2.54	0.40
24:Cc:88:UNK:O	24:Cc:90:UNK:C	2.68	0.40
29:D1:12:A:C2'	29:D1:13:A:O5'	2.69	0.40
29:D1:22:G:H2'	29:D1:23:A:C8	2.54	0.40
29:D1:130:A:C2	29:D1:139:G:C4	3.09	0.40
29:D1:155:G:C1'	29:D1:156:G:O5'	2.69	0.40
29:D1:196:G:H21	29:D1:219:A:H62	1.65	0.40
29:D1:197:G:C5	29:D1:198:A:N7	2.89	0.40
29:D1:247:C:N4	29:D1:248:U:C2	2.89	0.40
29:D1:284:A:N6	29:D1:2785:A:C1'	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:342:A:C5	29:D1:368:G:C5	3.10	0.40
29:D1:347:G:N1	29:D1:353:G:N7	2.69	0.40
29:D1:562:C:C2	29:D1:563:U:C4	3.09	0.40
29:D1:563:U:C2'	29:D1:564:G:C4'	2.96	0.40
29:D1:594:U:O5'	29:D1:609:G:N2	2.49	0.40
29:D1:596:C:C5'	29:D1:597:G:OP1	2.69	0.40
29:D1:612:U:O2	29:D1:613:G:C5	2.74	0.40
29:D1:637:C:C4	29:D1:638:C:C4	3.05	0.40
29:D1:637:C:C6	29:D1:638:C:H5	2.38	0.40
29:D1:744:A:N1	29:D1:745:C:C2	2.88	0.40
29:D1:752:C:H6	29:D1:752:C:H2'	1.71	0.40
29:D1:757:C:H41	29:D1:758:C:N4	2.19	0.40
29:D1:760:G:C2	29:D1:761:A:C8	3.09	0.40
29:D1:774:G:C6	29:D1:775:A:C8	3.09	0.40
29:D1:816:A:H1'	29:D1:819:U:O4	2.21	0.40
29:D1:937:G:N3	29:D1:963:G:H1'	2.36	0.40
29:D1:994:G:H22	29:D1:1053:A:H3'	1.84	0.40
29:D1:998:A:C2'	29:D1:999:G:C5'	2.97	0.40
29:D1:1218:U:C5'	29:D1:1219:C:OP2	2.55	0.40
29:D1:1269:U:O4	29:D1:1271:A:C5	2.73	0.40
29:D1:1383:G:C6	29:D1:1384:U:C4	3.09	0.40
29:D1:1507:G:H3'	29:D1:1508:C:H5'	2.03	0.40
29:D1:1539:A:C6	29:D1:1540:U:C5	3.09	0.40
29:D1:1556:C:N4	29:D1:2169:G:N7	2.69	0.40
29:D1:1593:A:C2'	29:D1:1594:A:C8	2.86	0.40
29:D1:1740:U:OP1	29:D1:1740:U:H4'	2.17	0.40
29:D1:1799:A:N1	29:D1:1800:A:N1	2.68	0.40
29:D1:1831:U:O2	29:D1:1831:U:H2'	2.22	0.40
29:D1:1852:G:C5	29:D1:1853:U:C5	3.10	0.40
29:D1:1889:G:N3	29:D1:1889:G:H2'	2.36	0.40
29:D1:2162:U:H2'	29:D1:2163:C:O4'	2.21	0.40
29:D1:2163:C:H5'	33:DB:230:VAL:CB	2.50	0.40
29:D1:2196:C:C5'	29:D1:2197:C:OP2	2.70	0.40
29:D1:2309:A:C8	29:D1:2309:A:OP1	2.74	0.40
29:D1:2364:G:OP2	29:D1:2364:G:C8	2.71	0.40
29:D1:2376:G:O2'	29:D1:2377:G:P	2.78	0.40
29:D1:2393:G:C2	29:D1:2982:A:C2	3.08	0.40
29:D1:2395:G:C8	29:D1:2946:A:N6	2.71	0.40
29:D1:2407:C:HO2'	29:D1:2818:U:H3	1.68	0.40
29:D1:2424:A:C5'	29:D1:2425:G:OP2	2.65	0.40
29:D1:2429:G:H2'	29:D1:2430:A:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2631:U:H5'	29:D1:2757:U:O2	2.20	0.40
29:D1:2777:G:H4'	29:D1:2778:G:H5"	2.04	0.40
29:D1:2919:A:C2'	29:D1:2920:U:C5'	2.99	0.40
29:D1:2932:U:C2'	29:D1:2933:A:O5'	2.69	0.40
29:D1:3094:A:C4	29:D1:3095:U:C5	3.09	0.40
29:D1:3160:U:N3	29:D1:3161:C:C4	2.90	0.40
29:D1:3198:U:C2	29:D1:3199:G:N7	2.89	0.40
29:D1:3273:A:N6	29:D1:3274:A:N7	2.68	0.40
29:D1:3309:G:C8	29:D1:3310:A:H1'	2.55	0.40
29:D1:3314:A:C3'	34:DC:119:TYR:N	2.84	0.40
29:D1:3315:G:H5"	29:D1:3319:U:O3'	2.20	0.40
29:D1:3327:G:N3	29:D1:3327:G:H2'	2.35	0.40
29:D1:3344:A:O3'	29:D1:3345:G:C8	2.74	0.40
30:D2:37:G:C2'	30:D2:38:U:O5'	2.69	0.40
31:D3:92:A:C3'	31:D3:93:U:H5'	2.51	0.40
31:D3:93:U:HO2'	31:D3:94:C:C4'	2.34	0.40
31:D3:100:U:H2'	31:D3:101:U:H6	1.87	0.40
31:D3:105:A:O3'	31:D3:106:C:H2'	2.21	0.40
34:DC:67:PHE:O	34:DC:68:HIS:C	2.63	0.40
35:DD:251:THR:O	35:DD:254:ALA:HB3	2.21	0.40
35:DD:273:GLY:C	35:DD:275:THR:N	2.79	0.40
36:DE:118:THR:O	36:DE:120:LYS:N	2.54	0.40
36:DE:246:ALA:O	36:DE:249:ALA:HB2	2.21	0.40
38:DG:41:ARG:O	38:DG:42:ALA:C	2.62	0.40
41:DJ:155:ALA:O	41:DJ:156:ARG:C	2.64	0.40
42:DK:120:ILE:O	42:DK:121:GLY:C	2.63	0.40
43:DN:58:ILE:N	43:DN:59:ASN:CB	2.85	0.40
43:DN:125:LYS:O	43:DN:126:GLN:CB	2.69	0.40
44:DO:24:ARG:O	44:DO:25:VAL:C	2.63	0.40
44:DO:46:ASP:C	44:DO:48:ALA:N	2.78	0.40
45:DP:58:LEU:C	45:DP:60:LYS:H	2.29	0.40
46:DQ:31:GLU:O	46:DQ:35:ALA:N	2.55	0.40
46:DQ:51:VAL:CB	46:DQ:57:ALA:HA	2.51	0.40
47:DR:98:LYS:H	47:DR:117:ALA:HB1	1.86	0.40
48:DS:66:HIS:O	48:DS:68:GLN:N	2.54	0.40
49:DT:115:LYS:O	49:DT:118:GLU:N	2.55	0.40
51:DV:45:ASN:C	51:DV:47:ARG:N	2.78	0.40
54:DY:74:ASN:C	54:DY:76:ASP:N	2.77	0.40
57:Db:8:LYS:C	57:Db:10:VAL:N	2.77	0.40
59:Dd:40:PRO:C	59:Dd:42:ALA:N	2.75	0.40
62:Dg:67:GLY:N	62:Dg:71:VAL:HA	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:43:A:H4'	1:A1:99:C:OP2	2.20	0.40
1:A1:77:U:O2'	1:A1:78:A:P	2.80	0.40
1:A1:90:C:O2'	1:A1:451:A:H5'	2.21	0.40
1:A1:97:C:C2	1:A1:98:U:C6	3.10	0.40
1:A1:103:A:C5	1:A1:360:A:N1	2.89	0.40
1:A1:195:G:O4'	1:A1:196:G:OP1	2.40	0.40
1:A1:263:C:O3'	1:A1:264:G:O4'	2.38	0.40
1:A1:265:A:H2	1:A1:267:U:H5	1.69	0.40
1:A1:295:A:C2	1:A1:296:U:C1'	3.04	0.40
1:A1:310:C:H6	1:A1:310:C:C4'	2.34	0.40
1:A1:420:A:H2'	1:A1:421:A:O5'	2.21	0.40
1:A1:445:A:N6	1:A1:461:G:H22	2.19	0.40
1:A1:456:A:C6	1:A1:457:G:C5	3.09	0.40
1:A1:461:G:C2	1:A1:462:G:C4	3.09	0.40
1:A1:542:A:O2'	1:A1:544:A:C5'	2.70	0.40
1:A1:567:A:C6	1:A1:568:G:C4	3.09	0.40
1:A1:572:C:C5'	1:A1:573:C:OP2	2.66	0.40
1:A1:647:G:C2	1:A1:648:G:C5	3.09	0.40
1:A1:819:G:O2'	1:A1:820:U:P	2.79	0.40
1:A1:824:G:N2	1:A1:849:C:H42	2.20	0.40
1:A1:872:G:N2	1:A1:873:U:H1'	2.36	0.40
1:A1:1146:G:C8	1:A1:1635:A:C2	2.96	0.40
1:A1:1291:G:N2	1:A1:1324:G:N2	2.69	0.40
1:A1:1549:C:H2'	1:A1:1550:A:O4'	2.22	0.40
1:A1:1554:U:C5'	1:A1:1555:A:OP2	2.68	0.40
1:A1:1584:G:H1	11:AJ:125:GLU:C	2.27	0.40
1:A1:1658:G:N1	1:A1:1659:A:C5	2.89	0.40
2:AA:13:ASP:H	2:AA:17:LEU:H	1.69	0.40
2:AA:68:PRO:O	2:AA:69:ASN:C	2.63	0.40
3:AB:106:ASP:C	3:AB:108:ASN:N	2.74	0.40
3:AB:153:SER:O	3:AB:170:ILE:HA	2.21	0.40
3:AB:203:LYS:C	3:AB:205:ARG:N	2.79	0.40
3:AB:233:GLN:O	3:AB:234:PRO:C	2.65	0.40
4:AC:134:CYS:CB	4:AC:187:LYS:O	2.70	0.40
7:AF:110:HIS:CB	7:AF:111:VAL:CB	2.99	0.40
8:AG:105:ASN:C	8:AG:107:LYS:H	2.28	0.40
9:AH:75:GLY:O	9:AH:76:ILE:C	2.64	0.40
11:AJ:93:HIS:CB	11:AJ:98:ASP:H	2.34	0.40
13:AL:121:ALA:O	13:AL:122:HIS:C	2.65	0.40
17:AP:73:ARG:HA	17:AP:84:THR:HA	2.02	0.40
17:AP:110:LYS:C	17:AP:112:LYS:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:68:VAL:HA	21:AT:84:SER:CB	2.51	0.40
29:B1:29:C:H4'	29:B1:62:A:H4'	2.03	0.40
29:B1:46:U:H3'	29:B1:46:U:C6	2.57	0.40
29:B1:60:A:C6	29:B1:328:U:C2	3.09	0.40
29:B1:69:C:O2	29:B1:69:C:C2'	2.61	0.40
29:B1:112:U:O4	29:B1:320:G:C6	2.74	0.40
29:B1:208:C:C2'	29:B1:209:A:H5'	2.30	0.40
29:B1:214:G:H2'	29:B1:215:G:C1'	2.51	0.40
29:B1:250:U:H3'	29:B1:251:G:C8	2.56	0.40
29:B1:253:A:C6	29:B1:254:A:C5	3.09	0.40
29:B1:395:A:C5	29:B1:396:A:N6	2.90	0.40
29:B1:533:A:C2'	29:B1:534:U:C6	3.04	0.40
29:B1:563:U:N3	29:B1:564:G:O4'	2.54	0.40
29:B1:597:G:C2	29:B1:598:A:N9	2.90	0.40
29:B1:609:G:O2'	29:B1:611:A:OP2	2.39	0.40
29:B1:618:C:HO2'	29:B1:619:A:H5'	1.86	0.40
29:B1:637:C:C6	29:B1:2361:A:C2	3.10	0.40
29:B1:663:C:C4	29:B1:664:U:C4	3.09	0.40
29:B1:774:G:C5	29:B1:775:A:C8	3.09	0.40
29:B1:790:U:H2'	29:B1:791:A:O5'	2.21	0.40
29:B1:884:A:N7	29:B1:2139:A:C2	2.86	0.40
29:B1:994:G:HO2'	29:B1:1053:A:N6	2.18	0.40
29:B1:1102:A:H5"	29:B1:1102:A:C8	2.57	0.40
29:B1:1145:G:N3	29:B1:1160:C:N3	2.69	0.40
29:B1:1216:C:C5'	29:B1:1217:A:OP2	2.69	0.40
29:B1:1317:A:N9	29:B1:1319:G:N7	2.69	0.40
29:B1:1621:A:C4	29:B1:1622:U:C5	3.09	0.40
29:B1:1631:C:H3'	29:B1:1631:C:H6	1.86	0.40
29:B1:1887:A:C2	29:B1:1888:U:H1'	2.56	0.40
29:B1:1887:A:N3	29:B1:1887:A:H2'	2.36	0.40
29:B1:1921:A:C4	29:B1:1932:A:C6	3.09	0.40
29:B1:2158:A:N7	29:B1:2177:G:C2	2.89	0.40
29:B1:2294:U:O2	29:B1:2294:U:C2'	2.64	0.40
29:B1:2416:U:O2'	29:B1:2966:G:N3	2.53	0.40
29:B1:2522:G:N3	29:B1:2522:G:C2'	2.84	0.40
29:B1:2626:A:H5'	29:B1:2627:C:C5'	2.51	0.40
29:B1:2646:C:H2'	29:B1:2647:A:H5'	2.03	0.40
29:B1:2804:A:C2	29:B1:2805:G:C8	3.09	0.40
29:B1:2839:G:O6	29:B1:2845:A:O2'	2.34	0.40
29:B1:2937:G:N7	34:BC:5:LYS:CB	2.84	0.40
29:B1:3109:G:C2'	29:B1:3110:C:H5'	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3137:C:H3'	29:B1:3138:U:C6	2.55	0.40
29:B1:3143:C:H5'	29:B1:3143:C:H6	1.86	0.40
29:B1:3169:U:C4	29:B1:3170:A:C6	3.09	0.40
29:B1:3281:U:N3	29:B1:3282:U:N3	2.69	0.40
29:B1:3289:G:C6	74:B1:3581:OHX:N3	2.89	0.40
29:B1:3289:G:O6	74:B1:3581:OHX:N4	2.54	0.40
29:B1:3297:U:N3	29:B1:3298:C:C4	2.89	0.40
29:B1:3324:C:O2'	29:B1:3325:G:C5'	2.59	0.40
31:B3:24:G:C2	31:B3:25:G:H1'	2.55	0.40
31:B3:56:G:C6	31:B3:57:C:C4	3.09	0.40
33:BB:198:LYS:O	33:BB:199:THR:C	2.63	0.40
34:BC:217:ALA:O	34:BC:218:ILE:CB	2.69	0.40
35:BD:42:VAL:C	35:BD:44:LYS:N	2.78	0.40
36:BE:99:TYR:O	36:BE:102:GLY:HA3	2.21	0.40
37:BF:26:ARG:O	37:BF:27:PRO:C	2.64	0.40
38:BG:84:VAL:C	38:BG:86:VAL:H	2.29	0.40
38:BG:85:PHE:O	38:BG:87:VAL:N	2.54	0.40
41:BJ:142:ASP:O	41:BJ:144:ASN:N	2.55	0.40
41:BJ:217:PHE:C	41:BJ:219:ALA:N	2.77	0.40
43:BN:71:ALA:C	43:BN:73:PRO:N	2.77	0.40
44:BO:99:ARG:O	44:BO:100:ALA:C	2.65	0.40
49:BT:63:VAL:H	49:BT:76:ILE:CB	2.35	0.40
49:BT:63:VAL:N	49:BT:76:ILE:CB	2.84	0.40
52:BW:127:THR:C	52:BW:129:ASP:N	2.78	0.40
55:BZ:24:THR:O	55:BZ:25:LEU:O	2.39	0.40
57:Bb:40:SER:C	57:Bb:42:VAL:H	2.28	0.40
60:Be:12:LYS:O	60:Be:13:MET:C	2.65	0.40
60:Be:38:ASN:C	60:Be:40:LYS:H	2.27	0.40
1:C1:23:G:H2'	1:C1:24:U:H6	1.83	0.40
1:C1:28:A:C6	1:C1:599:A:C6	3.09	0.40
1:C1:47:A:C5	1:C1:425:A:C2	3.08	0.40
1:C1:100:A:OP2	1:C1:361:C:OP2	2.39	0.40
1:C1:106:U:C4	1:C1:107:C:N3	2.89	0.40
1:C1:293:U:C2	1:C1:294:C:C5	3.08	0.40
1:C1:319:U:H6	1:C1:319:U:C5'	2.32	0.40
1:C1:327:U:C4	1:C1:328:A:N7	2.89	0.40
1:C1:515:A:N6	1:C1:537:G:N1	2.56	0.40
1:C1:518:A:H3'	1:C1:519:C:C5'	2.51	0.40
1:C1:525:A:OP1	1:C1:527:A:H2	2.03	0.40
1:C1:802:G:C2	1:C1:803:A:C2	3.10	0.40
1:C1:861:U:H2'	1:C1:862:A:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:868:G:O6	1:C1:960:U:O4	2.39	0.40
1:C1:1141:G:C2'	1:C1:1142:A:H5"	2.49	0.40
1:C1:1151:A:C4	1:C1:1152:A:C8	3.10	0.40
1:C1:1179:G:C6	1:C1:1180:C:N3	2.89	0.40
1:C1:1235:C:C2	1:C1:1236:A:C8	3.09	0.40
1:C1:1268:G:N2	1:C1:1270:G:C5	2.89	0.40
1:C1:1275:A:C5	1:C1:1438:G:C2	3.09	0.40
1:C1:1304:G:OP2	1:C1:1305:U:O2'	2.39	0.40
1:C1:1314:U:O2'	1:C1:1314:U:O2	2.40	0.40
1:C1:1322:A:C5	1:C1:1323:C:C5	3.09	0.40
1:C1:1323:C:O2	1:C1:1323:C:C2'	2.64	0.40
1:C1:1326:A:C8	1:C1:1326:A:OP2	2.74	0.40
1:C1:1348:A:H2	1:C1:1378:U:C6	2.36	0.40
1:C1:1363:U:N3	1:C1:1364:G:C5	2.89	0.40
1:C1:1365:C:H2'	1:C1:1366:U:O5'	2.21	0.40
1:C1:1504:G:O6	1:C1:1505:A:N1	2.55	0.40
1:C1:1560:U:O5'	1:C1:1560:U:N1	2.54	0.40
1:C1:1596:C:HO2'	1:C1:1597:A:P	2.45	0.40
1:C1:1605:G:C2'	1:C1:1606:C:H5'	2.51	0.40
1:C1:1753:A:C2	1:C1:1754:A:N1	2.89	0.40
1:C1:1790:A:C3'	1:C1:1791:A:H5"	2.51	0.40
2:CA:168:HIS:C	2:CA:170:ILE:N	2.79	0.40
2:CA:178:ALA:C	2:CA:180:GLU:N	2.78	0.40
3:CB:217:ALA:O	3:CB:219:GLY:C	2.64	0.40
6:CE:75:ALA:O	6:CE:78:ARG:N	2.55	0.40
10:CI:115:TYR:O	10:CI:118:GLU:N	2.49	0.40
16:CO:30:SER:O	16:CO:31:SER:O	2.38	0.40
29:D1:113:C:O2'	29:D1:114:A:H5'	2.21	0.40
29:D1:270:U:H3'	29:D1:270:U:C6	2.56	0.40
29:D1:271:C:O2	29:D1:271:C:C2'	2.70	0.40
29:D1:365:A:N1	29:D1:366:A:N3	2.69	0.40
29:D1:374:A:C4'	29:D1:375:A:H5'	2.51	0.40
29:D1:404:G:N1	29:D1:405:U:C2	2.89	0.40
29:D1:412:G:C4	29:D1:413:U:C6	3.09	0.40
29:D1:437:G:C6	29:D1:438:A:N1	2.89	0.40
29:D1:510:G:C2	29:D1:511:G:C1'	3.04	0.40
29:D1:558:U:O2'	29:D1:559:A:P	2.79	0.40
29:D1:576:C:HO2'	29:D1:577:C:P	2.42	0.40
29:D1:636:C:H6	29:D1:2378:C:H5'	1.86	0.40
29:D1:662:U:H1'	35:DD:101:ALA:HB2	2.02	0.40
29:D1:692:A:C3'	29:D1:693:A:H8	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:716:A:OP2	29:D1:716:A:O4'	2.39	0.40
29:D1:901:G:N3	29:D1:902:G:C8	2.89	0.40
29:D1:1005:G:H2'	29:D1:1006:A:O4'	2.21	0.40
29:D1:1175:C:HO2'	29:D1:1176:C:C5'	2.23	0.40
29:D1:1178:G:H2'	29:D1:1179:A:C5'	2.39	0.40
29:D1:1192:C:OP1	29:D1:1192:C:O2	2.40	0.40
29:D1:1218:U:C3'	29:D1:1219:C:O4'	2.69	0.40
29:D1:1218:U:H3'	29:D1:1219:C:O4'	2.21	0.40
29:D1:1225:A:C5	29:D1:1226:G:N7	2.89	0.40
29:D1:1295:G:O2'	29:D1:1296:C:H5'	2.21	0.40
29:D1:1326:A:C4	29:D1:1327:C:C6	3.08	0.40
29:D1:1384:U:O2'	29:D1:1385:C:P	2.79	0.40
29:D1:1449:A:H4'	29:D1:2983:C:N3	2.37	0.40
29:D1:1465:A:C2'	29:D1:1466:G:H5'	2.51	0.40
29:D1:1538:G:H5'	29:D1:1539:A:OP1	2.21	0.40
29:D1:1580:A:H3'	29:D1:1581:C:H5"	1.99	0.40
29:D1:1614:C:O2'	29:D1:1615:C:H5'	2.20	0.40
29:D1:1703:U:H1'	29:D1:1743:G:C6	2.56	0.40
29:D1:1704:A:N3	29:D1:1741:A:C6	2.89	0.40
29:D1:1749:A:O4'	29:D1:1751:G:C2	2.74	0.40
29:D1:1806:A:C2'	29:D1:1807:G:O5'	2.69	0.40
29:D1:1808:G:H2'	29:D1:1809:A:H8	1.85	0.40
29:D1:1881:A:N6	29:D1:2352:A:N6	2.69	0.40
29:D1:1923:C:C2'	29:D1:1924:U:H5'	2.50	0.40
29:D1:2355:G:C3'	29:D1:2355:G:C8	3.04	0.40
29:D1:2370:G:N9	29:D1:2371:G:C8	2.89	0.40
29:D1:2395:G:OP2	29:D1:2946:A:N6	2.48	0.40
29:D1:2423:U:C2'	29:D1:2424:A:C8	3.00	0.40
29:D1:2443:A:C5	29:D1:2444:C:N4	2.89	0.40
29:D1:2591:A:C2'	29:D1:2592:G:H5'	2.51	0.40
29:D1:2688:U:O3'	29:D1:2689:A:N7	2.52	0.40
29:D1:3000:A:H2'	29:D1:3001:C:C5	2.54	0.40
29:D1:3036:G:H2'	29:D1:3037:U:O5'	2.21	0.40
29:D1:3057:U:O2'	29:D1:3059:G:P	2.79	0.40
29:D1:3062:G:C5	29:D1:3063:C:C5	3.10	0.40
29:D1:3113:A:C6	29:D1:3114:A:C2	3.10	0.40
29:D1:3211:C:H2'	29:D1:3211:C:O2	2.17	0.40
29:D1:3220:G:C2	29:D1:3221:C:C5	3.09	0.40
29:D1:3320:A:C2	29:D1:3321:C:N3	2.89	0.40
29:D1:3392:U:C6	29:D1:3392:U:C4'	3.02	0.40
31:D3:110:C:H4'	31:D3:112:U:H5	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:128:U:C5'	31:D3:129:C:OP2	2.69	0.40
31:D3:140:G:O6	31:D3:141:C:N4	2.54	0.40
33:DB:183:GLY:C	33:DB:186:PHE:H	2.29	0.40
34:DC:87:VAL:O	34:DC:88:GLY:O	2.38	0.40
36:DE:103:LEU:HA	36:DE:107:ARG:CB	2.51	0.40
36:DE:257:GLU:C	36:DE:260:PHE:H	2.29	0.40
36:DE:289:LYS:C	36:DE:291:ALA:H	2.29	0.40
37:DF:152:THR:HA	37:DF:156:LYS:CA	2.51	0.40
38:DG:124:LEU:O	38:DG:125:GLU:C	2.63	0.40
41:DJ:178:ARG:O	41:DJ:179:PRO:C	2.63	0.40
42:DK:76:ALA:O	42:DK:77:GLU:C	2.64	0.40
43:DN:114:ASP:C	43:DN:116:GLU:N	2.79	0.40
45:DP:185:ALA:O	45:DP:186:ALA:CB	2.68	0.40
46:DQ:122:ALA:HB2	46:DQ:143:PRO:C	2.46	0.40
47:DR:131:ALA:C	47:DR:133:LYS:N	2.79	0.40
50:DU:127:PRO:O	50:DU:130:ALA:N	2.40	0.40
56:Da:85:ALA:CB	56:Da:86:LYS:CA	2.95	0.40
1:A1:12:U:O2	1:A1:12:U:H2'	2.22	0.40
1:A1:13:C:C4'	3:AB:161:LYS:O	2.70	0.40
1:A1:33:U:H3'	1:A1:33:U:C6	2.51	0.40
1:A1:50:C:C5	1:A1:424:C:C5	3.09	0.40
1:A1:62:A:H2	1:A1:63:G:C5	2.37	0.40
1:A1:63:G:O4'	1:A1:170:U:N3	2.54	0.40
1:A1:139:C:H4'	1:A1:140:A:O5'	2.22	0.40
1:A1:295:A:C2	1:A1:296:U:O4'	2.75	0.40
1:A1:416:A:N3	1:A1:416:A:O4'	2.54	0.40
1:A1:539:G:H5"	1:A1:543:C:H41	1.87	0.40
1:A1:577:G:OP1	1:A1:578:U:OP1	2.39	0.40
1:A1:665:U:H2'	1:A1:666:U:C4'	2.52	0.40
1:A1:679:U:H2'	1:A1:680:U:C6	2.56	0.40
1:A1:692:C:H5"	1:A1:693:U:OP2	2.22	0.40
1:A1:707:A:C4	1:A1:731:C:N4	2.88	0.40
1:A1:733:A:N3	1:A1:733:A:C2'	2.83	0.40
1:A1:734:A:OP1	1:A1:734:A:C8	2.75	0.40
1:A1:870:C:H2'	1:A1:871:G:H8	1.86	0.40
1:A1:916:U:C5	1:A1:917:U:N3	2.89	0.40
1:A1:925:G:N3	1:A1:988:A:H1'	2.36	0.40
1:A1:945:U:C2	1:A1:946:U:C5	3.10	0.40
1:A1:988:A:C2	1:A1:989:U:N1	2.89	0.40
1:A1:1073:G:O6	1:A1:1074:G:O6	2.37	0.40
1:A1:1109:G:C4	1:A1:1110:G:N7	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1146:G:C2'	1:A1:1147:A:O5'	2.70	0.40
1:A1:1176:G:H1'	1:A1:1464:G:N2	2.36	0.40
1:A1:1181:U:N3	1:A1:1182:U:C5	2.89	0.40
1:A1:1335:U:N3	1:A1:1336:A:N7	2.69	0.40
1:A1:1354:G:O6	74:A1:1959:OHX:N5	2.55	0.40
1:A1:1358:G:O2'	14:AM:129:GLN:O	2.26	0.40
1:A1:1466:G:C5	1:A1:1467:C:C5	3.09	0.40
1:A1:1470:C:C2'	1:A1:1471:A:OP1	2.69	0.40
1:A1:1485:C:H1'	1:A1:1606:C:H4'	2.03	0.40
1:A1:1486:G:C6	1:A1:1520:U:O2	2.74	0.40
1:A1:1497:U:N3	1:A1:1511:U:O2	2.55	0.40
1:A1:1529:C:N4	1:A1:1530:C:N4	2.69	0.40
1:A1:1542:G:C2	1:A1:1568:C:C6	3.10	0.40
1:A1:1658:G:OP1	1:A1:1659:A:P	2.79	0.40
1:A1:1671:A:N3	1:A1:1731:A:C2	2.89	0.40
1:A1:1722:A:N7	1:A1:1723:U:C1'	2.84	0.40
1:A1:1761:U:H1'	1:A1:1762:A:OP2	2.22	0.40
1:A1:1776:A:N1	1:A1:1786:G:C6	2.89	0.40
2:AA:50:VAL:O	2:AA:51:GLY:C	2.64	0.40
3:AB:230:TRP:C	3:AB:232:GLU:N	2.79	0.40
5:AD:146:THR:HA	5:AD:159:ALA:HA	2.03	0.40
6:AE:28:LEU:O	6:AE:29:LYS:C	2.64	0.40
6:AE:181:ALA:C	6:AE:183:ALA:H	2.29	0.40
9:AH:44:GLY:O	9:AH:45:GLY:C	2.65	0.40
16:AO:106:THR:HA	16:AO:122:SER:O	2.21	0.40
28:Ah:21:UNK:HA	28:Ah:24:UNK:C	2.52	0.40
29:B1:32:U:C4	29:B1:33:G:N7	2.90	0.40
29:B1:60:A:C8	29:B1:61:A:C8	3.10	0.40
29:B1:155:G:N7	29:B1:157:A:N3	2.69	0.40
29:B1:197:G:H2'	29:B1:198:A:C8	2.55	0.40
29:B1:264:G:C6	29:B1:265:A:N1	2.87	0.40
29:B1:368:G:C5	29:B1:369:A:N7	2.89	0.40
29:B1:382:U:C4	29:B1:383:G:C4	3.10	0.40
29:B1:559:A:O2'	29:B1:560:G:C5'	2.70	0.40
29:B1:589:A:O5'	29:B1:589:A:C8	2.75	0.40
29:B1:739:G:C6	29:B1:740:G:C6	3.09	0.40
29:B1:783:A:H2'	29:B1:784:A:O5'	2.21	0.40
29:B1:822:G:N3	29:B1:823:C:C6	2.89	0.40
29:B1:952:A:C8	29:B1:952:A:C4'	3.04	0.40
29:B1:1064:A:N3	29:B1:1095:U:N3	2.63	0.40
29:B1:1093:A:O2'	29:B1:1095:U:H1'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1130:A:C8	29:B1:1130:A:C5'	3.04	0.40
29:B1:1133:A:C2	29:B1:1134:G:C8	3.09	0.40
29:B1:1154:A:C4'	29:B1:1155:C:OP2	2.40	0.40
29:B1:1164:G:C4	29:B1:1165:A:N7	2.89	0.40
29:B1:1199:C:C6	29:B1:2825:C:O5'	2.75	0.40
29:B1:1377:G:H5'	29:B1:1408:G:O3'	2.21	0.40
29:B1:1394:A:N7	29:B1:1395:G:N7	2.69	0.40
29:B1:1455:U:O2	29:B1:3078:U:H5	2.05	0.40
29:B1:1519:G:C3'	29:B1:1520:G:H5"	2.50	0.40
29:B1:1608:C:N4	29:B1:1609:C:N4	2.69	0.40
29:B1:1739:U:C6	29:B1:1739:U:C3'	3.04	0.40
29:B1:1748:G:C4	29:B1:1749:A:N7	2.89	0.40
29:B1:1931:U:O2'	29:B1:2121:G:N2	2.53	0.40
29:B1:2150:G:C5	29:B1:2151:C:C5	3.09	0.40
29:B1:2196:C:C5'	29:B1:2197:C:OP2	2.69	0.40
29:B1:2291:A:C6	29:B1:2292:U:N3	2.90	0.40
29:B1:2348:A:OP2	29:B1:2349:U:C5	2.71	0.40
29:B1:2650:U:C1'	29:B1:2758:A:H2	2.34	0.40
29:B1:2688:U:H5'	29:B1:2689:A:N7	2.36	0.40
29:B1:2696:A:C8	29:B1:2697:A:C8	3.08	0.40
29:B1:2696:A:H2'	29:B1:2697:A:O5'	2.21	0.40
29:B1:2801:A:O2'	29:B1:2802:A:C2'	2.70	0.40
29:B1:2840:C:H6	29:B1:2840:C:H5"	1.86	0.40
29:B1:2872:A:H1'	29:B1:2873:U:C5'	2.50	0.40
29:B1:3117:C:C5	29:B1:3118:C:C5	3.10	0.40
29:B1:3136:G:O6	29:B1:3137:C:N4	2.54	0.40
29:B1:3224:G:O6	29:B1:3225:C:N4	2.55	0.40
29:B1:3244:A:N9	29:B1:3245:A:C8	2.88	0.40
29:B1:3290:G:C2'	29:B1:3291:G:C8	3.01	0.40
29:B1:3352:U:H5'	29:B1:3354:U:OP1	2.21	0.40
30:B2:2:G:N3	30:B2:2:G:C2'	2.84	0.40
30:B2:74:C:C2'	30:B2:75:G:C5'	2.80	0.40
30:B2:102:A:H2'	30:B2:103:A:C8	2.54	0.40
30:B2:107:C:C2	30:B2:108:A:C8	3.10	0.40
31:B3:80:A:H2'	31:B3:81:U:C4	2.56	0.40
31:B3:81:U:C2'	31:B3:82:U:H5"	2.51	0.40
35:BD:8:VAL:O	35:BD:18:ASN:O	2.39	0.40
36:BE:121:GLY:O	36:BE:122:VAL:C	2.63	0.40
36:BE:271:LYS:N	36:BE:272:TYR:HA	2.37	0.40
38:BG:148:VAL:O	38:BG:149:TYR:C	2.65	0.40
38:BG:227:GLY:O	38:BG:228:SER:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:93:LYS:C	43:BN:95:ALA:N	2.78	0.40
45:BP:60:LYS:C	45:BP:61:ALA:O	2.64	0.40
46:BQ:25:SER:O	46:BQ:27:LYS:N	2.55	0.40
46:BQ:100:ALA:C	46:BQ:102:ALA:H	2.29	0.40
47:BR:149:ALA:HB2	47:BR:157:PRO:CB	2.51	0.40
49:BT:66:ASN:O	49:BT:67:VAL:C	2.64	0.40
50:BU:87:ARG:O	50:BU:89:ASP:N	2.55	0.40
59:Bd:39:TYR:HA	59:Bd:40:PRO:HA	1.52	0.40
1:C1:14:C:OP1	3:CB:163:GLY:N	2.55	0.40
1:C1:145:A:C2	1:C1:146:U:C1'	3.03	0.40
1:C1:153:G:C2	1:C1:162:A:C5	3.09	0.40
1:C1:186:C:N4	1:C1:187:G:C2	2.90	0.40
1:C1:215:A:C5	1:C1:216:U:C4	3.09	0.40
1:C1:461:G:C2	1:C1:462:G:C4	3.09	0.40
1:C1:544:A:H2	1:C1:545:A:H8	1.64	0.40
1:C1:624:G:C8	1:C1:1027:A:C6	3.10	0.40
1:C1:720:G:C3'	1:C1:721:U:H5"	2.51	0.40
1:C1:757:A:C2	1:C1:758:U:C1'	3.05	0.40
1:C1:828:U:C5	1:C1:829:A:N6	2.89	0.40
1:C1:887:A:H5"	1:C1:888:U:OP2	2.21	0.40
1:C1:910:C:N4	1:C1:911:U:C4	2.89	0.40
1:C1:998:A:C8	1:C1:999:U:C5	3.09	0.40
1:C1:1066:C:C5	1:C1:1067:C:C5	3.09	0.40
1:C1:1094:G:N3	1:C1:1095:U:C5	2.89	0.40
1:C1:1112:G:C5	1:C1:1113:A:N7	2.89	0.40
1:C1:1185:U:C4'	1:C1:1186:U:OP2	2.69	0.40
1:C1:1367:G:C2	1:C1:1368:G:C5	3.09	0.40
1:C1:1540:G:C6	1:C1:1541:G:C4	3.08	0.40
1:C1:1549:C:OP1	10:CI:45:PHE:CB	2.70	0.40
1:C1:1577:A:C6	1:C1:1578:U:N3	2.90	0.40
1:C1:1584:G:C8	11:CJ:123:ARG:C	2.99	0.40
1:C1:1584:G:C8	11:CJ:123:ARG:N	2.75	0.40
1:C1:1602:C:H2'	1:C1:1603:U:C6	2.56	0.40
1:C1:1753:A:C3'	1:C1:1754:A:H5"	2.42	0.40
1:C1:1780:G:C6	1:C1:1781:A:C5	3.09	0.40
2:CA:32:HIS:C	2:CA:34:GLU:N	2.79	0.40
4:CC:75:LYS:O	4:CC:76:ARG:O	2.38	0.40
5:CD:136:ALA:C	5:CD:138:THR:N	2.78	0.40
5:CD:153:GLY:H	5:CD:154:ALA:C	2.29	0.40
5:CD:199:ILE:O	5:CD:203:LYS:N	2.54	0.40
10:CI:9:LYS:HA	10:CI:10:ARG:HA	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:25:LEU:C	10:CI:27:GLU:N	2.78	0.40
13:CL:121:ALA:O	13:CL:123:ARG:N	2.53	0.40
14:CM:1:MET:N	14:CM:2:PRO:HA	2.35	0.40
24:Cc:54:UNK:HA	24:Cc:62:UNK:CA	2.52	0.40
29:D1:109:A:H1'	29:D1:110:G:C1'	2.51	0.40
29:D1:157:A:C2'	29:D1:158:G:C8	3.03	0.40
29:D1:206:G:N1	29:D1:207:U:C2	2.89	0.40
29:D1:206:G:C2'	29:D1:207:U:H5'	2.51	0.40
29:D1:220:G:C6	29:D1:1389:G:N2	2.89	0.40
29:D1:279:U:N3	29:D1:286:U:O4	2.54	0.40
29:D1:295:A:O2'	29:D1:296:A:H5'	2.22	0.40
29:D1:307:A:N6	29:D1:308:A:C6	2.89	0.40
29:D1:325:A:C3'	29:D1:327:A:OP2	2.62	0.40
29:D1:359:U:O2'	59:Dd:15:SER:CB	2.70	0.40
29:D1:556:U:C2	29:D1:557:A:H1'	2.57	0.40
29:D1:604:G:H2'	29:D1:605:U:C6	2.56	0.40
29:D1:641:C:C3'	29:D1:641:C:C6	3.04	0.40
29:D1:750:G:C2	29:D1:783:A:C2	3.09	0.40
29:D1:819:U:H4'	29:D1:2138:A:C2	2.55	0.40
29:D1:910:G:C6	29:D1:911:C:C4	3.09	0.40
29:D1:957:C:H4'	29:D1:2799:A:N7	2.37	0.40
29:D1:974:G:O6	29:D1:975:C:N4	2.53	0.40
29:D1:1021:G:C4	29:D1:1022:U:C5	3.10	0.40
29:D1:1143:A:C8	29:D1:1368:U:C2	3.08	0.40
29:D1:1218:U:C4	29:D1:1219:C:C4	3.10	0.40
29:D1:1323:G:H5'	29:D1:1324:U:OP2	2.20	0.40
29:D1:1463:U:C2	29:D1:1464:G:C8	3.10	0.40
29:D1:1526:U:C6	29:D1:1594:A:C2	3.09	0.40
29:D1:1544:G:N3	29:D1:1544:G:H2'	2.36	0.40
29:D1:1658:G:H2'	29:D1:1659:U:O4'	2.21	0.40
29:D1:1878:G:OP1	29:D1:1879:A:C4	2.74	0.40
29:D1:1931:U:O4	29:D1:2121:G:O4'	2.40	0.40
29:D1:2192:C:C2'	29:D1:2193:U:C5'	2.99	0.40
29:D1:2409:G:H4'	29:D1:2410:U:OP2	2.21	0.40
29:D1:2603:G:C2	29:D1:2604:U:H1'	2.56	0.40
29:D1:2656:A:H2'	29:D1:2656:A:N3	2.36	0.40
29:D1:2681:U:O2'	29:D1:2682:C:OP2	2.39	0.40
29:D1:2717:U:H2'	29:D1:2718:U:H6	1.85	0.40
29:D1:2779:A:C6	29:D1:2780:A:N7	2.89	0.40
29:D1:2912:G:H2'	29:D1:2913:C:H5'	2.04	0.40
29:D1:3000:A:N3	29:D1:3149:G:C2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3012:A:C2	29:D1:3013:U:C6	3.09	0.40
29:D1:3068:U:OP1	48:DS:58:HIS:CA	2.65	0.40
29:D1:3087:A:C4	29:D1:3088:G:C8	3.10	0.40
29:D1:3115:C:O2	29:D1:3115:C:O4'	2.39	0.40
29:D1:3205:G:O2'	29:D1:3206:C:C4	2.46	0.40
29:D1:3322:A:C6	29:D1:3323:A:C5	3.10	0.40
29:D1:3330:A:C5	29:D1:3331:U:C4	3.09	0.40
29:D1:3343:G:N7	29:D1:3344:A:N6	2.69	0.40
30:D2:2:G:N2	30:D2:3:U:C2	2.89	0.40
30:D2:9:C:C3'	30:D2:10:C:H4'	2.48	0.40
30:D2:23:A:C8	30:D2:24:A:C8	3.08	0.40
30:D2:42:A:C2	30:D2:47:C:N4	2.90	0.40
31:D3:116:G:N3	31:D3:117:C:C6	2.90	0.40
33:DB:95:SER:O	33:DB:96:LEU:CB	2.68	0.40
33:DB:121:GLY:O	33:DB:122:ASP:O	2.40	0.40
34:DC:178:LEU:O	34:DC:179:ALA:O	2.39	0.40
35:DD:158:SER:O	35:DD:159:ILE:CB	2.69	0.40
35:DD:169:LEU:O	35:DD:174:ALA:HB3	2.21	0.40
36:DE:80:SER:C	36:DE:82:GLU:N	2.79	0.40
36:DE:272:TYR:N	36:DE:275:THR:HA	2.37	0.40
37:DF:144:ALA:O	37:DF:146:ILE:CB	2.69	0.40
38:DG:63:ILE:C	38:DG:65:ALA:N	2.79	0.40
46:DQ:6:ALA:C	46:DQ:8:SER:N	2.79	0.40
48:DS:54:ALA:HB1	48:DS:55:VAL:H	1.71	0.40
49:DT:56:PHE:O	49:DT:58:GLN:N	2.55	0.40
50:DU:113:ALA:HB1	50:DU:132:ASN:O	2.21	0.40
59:Dd:31:LYS:O	59:Dd:32:LYS:CB	2.69	0.40
62:Dg:78:THR:O	62:Dg:82:THR:N	2.54	0.40
63:Dh:39:UNK:O	63:Dh:40:UNK:C	2.69	0.40
1:A1:26:A:OP2	1:A1:26:A:C8	2.72	0.40
1:A1:143:G:O3'	1:A1:144:U:H4'	2.21	0.40
1:A1:198:A:N3	1:A1:199:G:O4'	2.54	0.40
1:A1:218:A:N6	1:A1:844:A:H1'	2.32	0.40
1:A1:327:U:C4	1:A1:328:A:N7	2.89	0.40
1:A1:343:C:O2'	1:A1:344:A:H5'	2.21	0.40
1:A1:483:A:C2	1:A1:484:C:C5	3.09	0.40
1:A1:500:C:O2	1:A1:501:U:C5	2.74	0.40
1:A1:525:A:P	1:A1:526:A:N7	2.95	0.40
1:A1:691:C:HO2'	1:A1:692:C:P	2.45	0.40
1:A1:837:G:O6	74:A1:1917:OHX:N5	2.54	0.40
1:A1:860:U:O2	1:A1:861:U:O4'	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:898:A:N6	1:A1:912:U:C2	2.87	0.40
1:A1:922:G:N2	1:A1:923:A:C4	2.90	0.40
1:A1:974:A:C2	1:A1:975:C:C6	3.10	0.40
1:A1:986:G:O2'	1:A1:987:G:C5'	2.69	0.40
1:A1:998:A:H3'	1:A1:999:U:C5	2.56	0.40
1:A1:1094:G:N3	1:A1:1095:U:C5	2.89	0.40
1:A1:1142:A:C5'	1:A1:1142:A:C8	3.05	0.40
1:A1:1144:U:H5'	1:A1:1300:A:N1	2.37	0.40
1:A1:1161:C:C2'	1:A1:1162:C:H5'	2.52	0.40
1:A1:1183:A:N3	1:A1:1210:C:O2'	2.50	0.40
1:A1:1305:U:H5"	1:A1:1306:C:C4	2.57	0.40
1:A1:1306:C:H5	1:A1:1318:G:H1	1.69	0.40
1:A1:1331:A:H2'	1:A1:1332:C:H5'	2.03	0.40
1:A1:1366:U:C2	1:A1:1367:G:C8	3.10	0.40
1:A1:1417:A:OP1	74:A1:1989:OHX:N1	2.54	0.40
1:A1:1497:U:C4	1:A1:1498:G:C5	3.09	0.40
1:A1:1594:G:C2'	1:A1:1595:U:H5'	2.51	0.40
1:A1:1666:U:C4	1:A1:1736:G:C2	3.09	0.40
2:AA:171:GLY:C	2:AA:173:ILE:N	2.79	0.40
6:AE:125:ALA:O	6:AE:126:ARG:C	2.63	0.40
14:AM:113:ILE:CB	14:AM:125:SER:N	2.85	0.40
15:AN:32:LYS:O	15:AN:34:LEU:N	2.52	0.40
16:AO:114:GLU:O	16:AO:117:ARG:N	2.55	0.40
29:B1:24:G:N3	29:B1:24:G:H2'	2.36	0.40
29:B1:37:U:O2	29:B1:38:U:C6	2.75	0.40
29:B1:191:U:O2	29:B1:192:C:C6	2.74	0.40
29:B1:332:C:C5'	29:B1:332:C:H6	2.33	0.40
29:B1:376:G:C5	29:B1:401:U:N3	2.89	0.40
29:B1:419:G:N1	31:B3:5:U:O2	2.53	0.40
29:B1:440:A:N3	29:B1:440:A:C2'	2.84	0.40
29:B1:577:C:H6	29:B1:577:C:H3'	1.86	0.40
29:B1:595:G:N1	29:B1:596:C:C5	2.89	0.40
29:B1:600:G:O6	74:B1:3620:OHX:N2	2.54	0.40
29:B1:619:A:C2'	29:B1:620:U:OP2	2.69	0.40
29:B1:880:G:O2'	29:B1:881:C:C5	2.75	0.40
29:B1:932:U:C4	29:B1:934:G:H1'	2.56	0.40
29:B1:986:U:O2'	29:B1:987:U:O5'	2.39	0.40
29:B1:1035:G:C2	29:B1:1036:A:C8	3.10	0.40
29:B1:1144:U:H6	29:B1:1144:U:C5'	2.33	0.40
29:B1:1200:A:C5'	29:B1:1201:C:O5'	2.69	0.40
29:B1:1200:A:H5'	29:B1:1201:C:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1212:A:N6	29:B1:1294:A:N1	2.68	0.40
29:B1:1234:G:C3'	29:B1:1235:U:H5"	2.49	0.40
29:B1:1246:G:C2	29:B1:1247:U:O2'	2.71	0.40
29:B1:1281:G:C2	29:B1:1282:G:H1'	2.57	0.40
29:B1:1302:A:H2'	29:B1:1303:A:O5'	2.21	0.40
29:B1:1374:G:H2'	29:B1:1375:G:O4'	2.22	0.40
29:B1:1413:G:C2	29:B1:1414:G:C5	3.10	0.40
29:B1:1488:G:C6	29:B1:1855:U:C4	3.10	0.40
29:B1:1498:A:H2'	29:B1:1499:C:H6	1.85	0.40
29:B1:1546:A:N7	29:B1:1547:G:N7	2.70	0.40
29:B1:1604:G:C6	29:B1:1605:A:N7	2.90	0.40
29:B1:1627:U:C4'	29:B1:1628:C:OP2	2.70	0.40
29:B1:1633:C:C4	29:B1:1634:G:C5	3.10	0.40
29:B1:1640:G:N3	29:B1:1641:U:C5	2.89	0.40
29:B1:1651:U:H2'	29:B1:1652:G:H8	1.84	0.40
29:B1:1713:G:C5	29:B1:1730:G:N3	2.90	0.40
29:B1:1844:C:C2	29:B1:1845:G:H8	2.30	0.40
29:B1:1887:A:O3'	34:BC:228:GLY:N	2.55	0.40
29:B1:1948:G:N3	29:B1:1949:G:C8	2.89	0.40
29:B1:2229:A:H2'	29:B1:2230:C:C1'	2.52	0.40
29:B1:2305:G:O2'	29:B1:2306:C:P	2.79	0.40
29:B1:2366:C:H1'	29:B1:2382:G:N2	2.35	0.40
29:B1:2625:C:H6	29:B1:2625:C:O5'	2.04	0.40
29:B1:2675:C:OP2	29:B1:2676:A:H5"	2.22	0.40
29:B1:2702:A:H8	29:B1:2704:A:H62	1.62	0.40
29:B1:2725:U:OP2	29:B1:2726:C:OP2	2.39	0.40
29:B1:2732:G:O6	29:B1:2733:A:C6	2.75	0.40
29:B1:2781:U:H2'	29:B1:2782:U:C6	2.56	0.40
29:B1:2830:G:H5'	29:B1:2830:G:H8	1.87	0.40
29:B1:2887:A:N3	29:B1:2887:A:H5'	2.36	0.40
29:B1:2900:A:O2'	29:B1:2901:G:P	2.80	0.40
29:B1:2992:U:C3'	29:B1:2992:U:C6	3.04	0.40
29:B1:3020:U:C2'	29:B1:3021:A:OP1	2.69	0.40
29:B1:3036:G:H2'	29:B1:3037:U:O5'	2.21	0.40
29:B1:3069:G:C4	29:B1:3070:A:N7	2.90	0.40
29:B1:3150:A:OP2	29:B1:3151:U:H2'	2.22	0.40
29:B1:3153:U:C1'	29:B1:3395:G:N2	2.84	0.40
29:B1:3320:A:C2'	29:B1:3321:C:O4'	2.70	0.40
29:B1:3381:U:O2'	29:B1:3383:G:N3	2.42	0.40
30:B2:88:G:C2	30:B2:89:G:N7	2.90	0.40
31:B3:30:C:O2	31:B3:30:C:C2'	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:74:U:OP2	31:B3:76:C:N1	2.53	0.40
31:B3:81:U:C5	31:B3:82:U:C6	3.10	0.40
31:B3:150:G:N7	74:B3:212:OHX:N4	2.69	0.40
34:BC:24:SER:C	34:BC:26:ARG:N	2.80	0.40
34:BC:120:LYS:O	34:BC:121:ASN:C	2.64	0.40
35:BD:216:VAL:C	35:BD:218:ALA:N	2.79	0.40
36:BE:43:LYS:H	49:BT:69:LYS:CA	2.33	0.40
40:BI:4:ILE:O	40:BI:5:GLN:CB	2.70	0.40
41:BJ:169:LYS:CB	41:BJ:177:ASP:O	2.69	0.40
41:BJ:215:GLU:O	41:BJ:217:PHE:N	2.54	0.40
42:BK:80:LEU:C	42:BK:83:GLY:H	2.29	0.40
45:BP:162:VAL:C	45:BP:164:SER:N	2.79	0.40
47:BR:145:ASN:CB	47:BR:146:SER:CB	2.99	0.40
48:BS:147:ALA:O	48:BS:148:ASP:C	2.64	0.40
1:C1:129:U:C5	74:C1:1915:OHX:N6	2.90	0.40
1:C1:287:G:H2'	1:C1:288:A:O5'	2.21	0.40
1:C1:315:A:H4'	1:C1:316:A:OP1	2.20	0.40
1:C1:365:G:C6	1:C1:377:G:N1	2.89	0.40
1:C1:409:C:H5'	1:C1:1732:A:O2'	2.20	0.40
1:C1:413:U:C2	1:C1:421:A:H2	2.38	0.40
1:C1:593:U:H4'	1:C1:595:G:C4'	2.42	0.40
1:C1:612:U:C5	1:C1:613:G:C4	3.09	0.40
1:C1:719:U:O2	1:C1:720:G:N3	2.54	0.40
1:C1:802:G:H21	16:CO:107:SER:CB	2.34	0.40
1:C1:1032:G:C2	1:C1:1033:C:C6	3.10	0.40
1:C1:1091:A:C4'	1:C1:1092:A:O5'	2.64	0.40
1:C1:1232:U:P	1:C1:1258:U:O2'	2.79	0.40
1:C1:1269:U:C1'	1:C1:1270:G:OP2	2.69	0.40
1:C1:1280:C:C2	1:C1:1281:G:C8	3.09	0.40
1:C1:1453:G:C5	1:C1:1454:G:N7	2.90	0.40
1:C1:1507:G:N3	1:C1:1508:U:H1'	2.37	0.40
1:C1:1514:U:O2	1:C1:1514:U:O4'	2.38	0.40
1:C1:1565:C:H5"	1:C1:1566:U:OP2	2.21	0.40
1:C1:1734:U:C2'	1:C1:1735:U:H6	2.26	0.40
1:C1:1777:G:C6	1:C1:1778:G:N7	2.89	0.40
4:CC:80:ALA:O	4:CC:82:GLY:N	2.54	0.40
5:CD:122:ASN:O	5:CD:123:VAL:C	2.63	0.40
11:CJ:43:ILE:C	11:CJ:45:ARG:N	2.80	0.40
14:CM:31:PRO:C	14:CM:33:TYR:N	2.78	0.40
18:CQ:76:ALA:C	18:CQ:78:ILE:N	2.78	0.40
21:CT:51:ASP:C	21:CT:53:LYS:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Cb:65:UNK:C	23:Cb:67:UNK:N	2.77	0.40
24:Cc:38:UNK:O	24:Cc:39:UNK:C	2.68	0.40
25:Cd:112:UNK:O	25:Cd:114:UNK:N	2.53	0.40
29:D1:47:C:H3'	29:D1:48:A:H2'	2.03	0.40
29:D1:62:A:N3	29:D1:63:A:C8	2.89	0.40
29:D1:88:A:N6	29:D1:98:G:O2'	2.51	0.40
29:D1:118:U:C6	29:D1:118:U:H3'	2.56	0.40
29:D1:123:A:C2	29:D1:146:U:C2	3.09	0.40
29:D1:191:U:O2	29:D1:191:U:H2'	2.20	0.40
29:D1:347:G:C2	29:D1:348:A:C4	3.10	0.40
29:D1:420:G:C6	29:D1:2384:A:C2	3.10	0.40
29:D1:502:U:C2'	29:D1:503:C:H5'	2.51	0.40
29:D1:538:G:C8	29:D1:539:C:H5	2.38	0.40
29:D1:572:A:H2'	29:D1:573:C:O4'	2.22	0.40
29:D1:598:A:H2'	29:D1:598:A:N3	2.36	0.40
29:D1:614:C:H2'	29:D1:615:U:C6	2.57	0.40
29:D1:725:G:H2'	29:D1:726:G:C5'	2.28	0.40
29:D1:734:C:H5"	29:D1:735:A:N1	2.36	0.40
29:D1:752:C:O2'	29:D1:753:C:P	2.79	0.40
29:D1:954:U:O2	29:D1:954:U:H2'	2.21	0.40
29:D1:994:G:OP2	29:D1:994:G:C8	2.74	0.40
29:D1:1150:A:H3'	29:D1:1151:U:C6	2.57	0.40
29:D1:1316:C:H5'	29:D1:1317:A:C5'	2.51	0.40
29:D1:1375:G:N3	29:D1:1407:A:C2	2.77	0.40
29:D1:1393:A:N1	29:D1:1394:A:C4	2.89	0.40
29:D1:1410:U:C6	29:D1:1410:U:C3'	3.04	0.40
29:D1:1455:U:O2	29:D1:3078:U:H5	2.04	0.40
29:D1:1561:G:H2'	29:D1:1562:C:H6	1.86	0.40
29:D1:1561:G:C5	29:D1:1562:C:C5	3.09	0.40
29:D1:1602:A:N6	29:D1:1603:A:H61	2.17	0.40
29:D1:1640:G:O2'	29:D1:1641:U:O5'	2.40	0.40
29:D1:1736:G:H2'	29:D1:1736:G:N3	2.36	0.40
29:D1:1752:A:C4	29:D1:1753:G:C8	3.09	0.40
29:D1:1853:U:O2	29:D1:1853:U:H2'	2.21	0.40
29:D1:1951:C:C2	29:D1:2096:A:C2	3.09	0.40
29:D1:2117:A:H3'	29:D1:2118:C:C6	2.56	0.40
29:D1:2137:U:O2	29:D1:2137:U:C2'	2.69	0.40
29:D1:2137:U:O2	29:D1:2141:U:H5	2.04	0.40
29:D1:2193:U:H5"	29:D1:2312:A:N1	2.36	0.40
29:D1:2515:A:N6	29:D1:2593:A:C5	2.89	0.40
29:D1:2655:U:H1'	29:D1:2656:A:C2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2701:U:H1'	29:D1:2705:A:C5	2.56	0.40
29:D1:2749:G:C6	29:D1:2750:U:N3	2.90	0.40
29:D1:2814:G:N3	29:D1:2815:G:C8	2.90	0.40
29:D1:2888:U:C6	29:D1:2910:A:C6	3.10	0.40
29:D1:2901:G:H2'	29:D1:2902:A:C8	2.56	0.40
29:D1:2932:U:C6	29:D1:2935:U:C5	2.88	0.40
29:D1:3032:A:C8	29:D1:3032:A:C3'	3.04	0.40
29:D1:3273:A:N3	29:D1:3273:A:C2'	2.83	0.40
29:D1:3391:A:C2	29:D1:3392:U:N1	2.88	0.40
30:D2:31:U:C5	30:D2:32:U:H5	2.38	0.40
31:D3:56:G:C5	31:D3:62:C:C4	3.09	0.40
31:D3:123:G:N1	31:D3:131:A:N6	2.68	0.40
33:DB:188:LYS:O	33:DB:189:TYR:C	2.64	0.40
34:DC:221:THR:CB	34:DC:273:HIS:O	2.70	0.40
36:DE:30:TYR:C	36:DE:32:GLN:H	2.27	0.40
36:DE:134:ALA:HB3	36:DE:135:VAL:HA	2.03	0.40
36:DE:141:PRO:CA	36:DE:143:LYS:N	2.82	0.40
36:DE:269:SER:HA	36:DE:270:LYS:HA	1.73	0.40
37:DF:16:ALA:C	37:DF:18:LEU:H	2.29	0.40
37:DF:32:ALA:O	37:DF:33:SER:O	2.39	0.40
37:DF:92:SER:C	37:DF:94:GLU:N	2.78	0.40
39:DH:153:ILE:O	39:DH:180:VAL:N	2.54	0.40
41:DJ:135:ILE:O	41:DJ:136:PHE:C	2.64	0.40
41:DJ:169:LYS:CB	41:DJ:177:ASP:O	2.69	0.40
42:DK:52:TYR:O	42:DK:60:ARG:O	2.39	0.40
72:DL:28:LEU:HA	72:DL:42:VAL:CB	2.51	0.40
43:DN:43:LYS:O	43:DN:44:VAL:O	2.39	0.40
44:DO:97:SER:O	44:DO:98:LEU:C	2.64	0.40
47:DR:126:GLN:C	47:DR:128:ALA:N	2.79	0.40
48:DS:164:LEU:C	48:DS:166:ASN:H	2.29	0.40
49:DT:112:ASN:C	49:DT:114:ALA:H	2.30	0.40
53:DX:24:SER:C	53:DX:26:GLN:N	2.78	0.40
55:DZ:42:ILE:HA	55:DZ:90:VAL:O	2.22	0.40
65:Dk:9:UNK:HA	65:Dk:12:UNK:CB	2.51	0.40
65:Dk:14:UNK:O	65:Dk:18:UNK:N	2.55	0.40
1:A1:9:U:H2'	1:A1:11:A:N7	2.37	0.40
1:A1:122:U:O4	1:A1:123:G:O6	2.39	0.40
1:A1:164:A:H2'	1:A1:165:G:H8	1.86	0.40
1:A1:304:U:C2	1:A1:305:C:C6	3.10	0.40
1:A1:351:C:C2	7:AF:102:LYS:O	2.75	0.40
1:A1:399:A:C5	1:A1:401:A:C6	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:444:C:N4	1:A1:460:A:H62	2.03	0.40
1:A1:469:C:O2'	1:A1:470:A:C2	2.73	0.40
1:A1:484:C:C5	1:A1:485:A:C8	3.10	0.40
1:A1:614:C:N3	1:A1:615:A:N7	2.69	0.40
1:A1:690:G:O6	1:A1:691:C:N4	2.55	0.40
1:A1:709:C:O2'	1:A1:710:U:C4'	2.70	0.40
1:A1:802:G:C6	1:A1:803:A:C2	3.09	0.40
1:A1:952:A:H2'	1:A1:952:A:N3	2.36	0.40
1:A1:959:U:O4'	1:A1:959:U:P	2.79	0.40
1:A1:960:U:H2'	1:A1:961:U:H6	1.83	0.40
1:A1:1036:A:H3'	1:A1:1037:C:C6	2.56	0.40
1:A1:1203:A:C2	1:A1:1556:A:N3	2.89	0.40
1:A1:1264:G:N2	1:A1:1265:G:C4	2.89	0.40
1:A1:1365:C:OP2	1:A1:1366:U:OP2	2.40	0.40
1:A1:1644:C:OP2	1:A1:1644:C:H3'	2.21	0.40
1:A1:1671:A:H2'	1:A1:1672:G:O4'	2.22	0.40
1:A1:1714:A:N1	1:A1:1715:G:N2	2.69	0.40
1:A1:1742:U:C4	1:A1:1743:U:C4	3.09	0.40
2:AA:11:PRO:C	2:AA:13:ASP:N	2.80	0.40
2:AA:160:ILE:O	2:AA:161:PRO:C	2.64	0.40
2:AA:178:ALA:C	2:AA:180:GLU:N	2.78	0.40
3:AB:40:LYS:C	3:AB:42:GLY:N	2.78	0.40
3:AB:209:ASN:O	3:AB:210:THR:C	2.64	0.40
4:AC:79:TYR:O	4:AC:81:PRO:N	2.54	0.40
6:AE:109:LEU:O	6:AE:110:GLN:C	2.64	0.40
19:AR:8:THR:HA	19:AR:50:GLU:HA	2.04	0.40
21:AT:284:ALA:C	21:AT:286:GLU:H	2.29	0.40
25:Ad:95:UNK:O	25:Ad:96:UNK:C	2.65	0.40
26:Ae:8:UNK:C	26:Ae:10:UNK:N	2.80	0.40
29:B1:45:A:OP1	61:Bf:47:GLN:CB	2.70	0.40
29:B1:46:U:O4	29:B1:47:C:C4	2.74	0.40
29:B1:51:A:H2'	29:B1:52:A:C5'	2.51	0.40
29:B1:187:A:H1'	29:B1:211:A:H61	1.80	0.40
29:B1:272:G:C6	29:B1:273:A:C5	3.10	0.40
29:B1:310:U:N3	29:B1:2780:A:C6	2.87	0.40
29:B1:391:A:H2'	29:B1:392:G:OP1	2.22	0.40
29:B1:400:G:C5'	29:B1:403:C:O2'	2.62	0.40
29:B1:407:A:O5'	29:B1:407:A:H8	2.04	0.40
29:B1:512:U:H1'	29:B1:579:G:N2	2.36	0.40
29:B1:523:A:C6	29:B1:524:U:C5	3.09	0.40
29:B1:537:A:H1'	29:B1:558:U:O4	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:593:C:C3’	29:B1:609:G:H22	2.34	0.40
29:B1:595:G:N1	29:B1:596:C:H5	2.19	0.40
29:B1:866:A:H3’	29:B1:867:G:C8	2.48	0.40
29:B1:1004:U:C2	29:B1:1005:G:C8	3.09	0.40
29:B1:1054:A:N3	29:B1:1054:A:C2’	2.71	0.40
29:B1:1116:G:N2	29:B1:2817:A:C8	2.89	0.40
29:B1:1211:U:O2’	29:B1:1212:A:O4’	2.32	0.40
29:B1:1245:A:H5’	29:B1:1246:G:O3’	2.21	0.40
29:B1:1270:A:N7	29:B1:1271:A:H1’	2.36	0.40
29:B1:1306:G:N9	45:BP:62:THR:CB	2.84	0.40
29:B1:1543:G:N1	29:B1:1544:G:N7	2.70	0.40
29:B1:1574:C:O2	29:B1:1574:C:H2’	2.21	0.40
29:B1:1713:G:O6	29:B1:1730:G:O2’	2.28	0.40
29:B1:1778:G:O3’	29:B1:1779:C:C2	2.75	0.40
29:B1:1798:A:C2	29:B1:1799:A:N3	2.88	0.40
29:B1:1876:U:C5’	29:B1:1876:U:H6	2.34	0.40
29:B1:1913:A:C2	29:B1:2120:A:H8	2.37	0.40
29:B1:1921:A:C5	29:B1:1932:A:C5	3.09	0.40
29:B1:2112:U:O2	29:B1:2113:A:C2	2.75	0.40
29:B1:2156:C:H2’	29:B1:2178:A:H61	1.86	0.40
29:B1:2240:G:O2’	29:B1:2241:U:H5’	2.22	0.40
29:B1:2278:C:N4	29:B1:2305:G:C5	2.89	0.40
29:B1:2313:A:O4’	29:B1:2315:G:C8	2.75	0.40
29:B1:2365:C:H2’	29:B1:2366:C:O5’	2.21	0.40
29:B1:2677:G:N2	29:B1:2679:A:O4’	2.54	0.40
29:B1:2681:U:O3’	42:BK:50:ALA:HA	2.22	0.40
29:B1:2684:C:C2’	29:B1:2685:C:O5’	2.70	0.40
29:B1:2704:A:O2’	29:B1:2705:A:H2’	2.21	0.40
29:B1:3060:C:H1’	29:B1:3331:U:C1’	2.30	0.40
29:B1:3120:C:H5’	29:B1:3121:U:OP2	2.22	0.40
29:B1:3153:U:C5’	29:B1:3293:U:C6	3.04	0.40
29:B1:3202:G:C5	29:B1:3203:U:C4	3.10	0.40
29:B1:3235:C:C4	29:B1:3236:U:C4	3.09	0.40
29:B1:3288:G:O6	74:B1:3581:OHX:N3	2.55	0.40
29:B1:3295:A:C4	29:B1:3296:A:C8	3.09	0.40
29:B1:3327:G:N2	29:B1:3379:C:C2	2.89	0.40
29:B1:3332:U:H2’	29:B1:3333:G:OP2	2.21	0.40
29:B1:3344:A:O3’	29:B1:3345:G:C8	2.75	0.40
29:B1:3363:U:H6	29:B1:3364:C:O4’	2.04	0.40
29:B1:3371:G:H8	29:B1:3371:G:H5”	1.85	0.40
29:B1:3390:G:C5	29:B1:3391:A:C5	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:74:C:C5	30:B2:75:G:C4	3.09	0.40
30:B2:94:C:H2'	30:B2:95:A:C8	2.49	0.40
31:B3:91:C:H2'	31:B3:92:A:H8	1.84	0.40
31:B3:147:U:C2	31:B3:148:G:C8	3.10	0.40
33:BB:225:ILE:O	33:BB:226:SER:C	2.65	0.40
34:BC:53:MET:HA	34:BC:77:THR:HA	2.03	0.40
34:BC:157:VAL:O	34:BC:158:VAL:CB	2.69	0.40
34:BC:187:SER:O	34:BC:188:ILE:O	2.39	0.40
35:BD:257:LYS:C	35:BD:258:LEU:O	2.62	0.40
38:BG:193:PRO:O	38:BG:195:PHE:N	2.55	0.40
42:BK:82:ARG:O	42:BK:86:VAL:CB	2.69	0.40
43:BN:109:ARG:O	43:BN:113:THR:CB	2.70	0.40
44:BO:46:ASP:C	44:BO:48:ALA:N	2.80	0.40
44:BO:177:GLY:O	44:BO:178:HIS:C	2.64	0.40
46:BQ:14:SER:CB	46:BQ:151:THR:HA	2.52	0.40
46:BQ:30:ARG:O	46:BQ:33:ALA:N	2.54	0.40
46:BQ:83:TRP:O	46:BQ:84:PRO:C	2.65	0.40
47:BR:117:ALA:HB3	47:BR:118:GLY:CA	2.35	0.40
51:BV:5:ILE:N	51:BV:13:ILE:H	2.19	0.40
55:BZ:42:ILE:HA	55:BZ:90:VAL:O	2.22	0.40
58:Bc:10:ARG:CA	58:Bc:11:THR:CB	3.00	0.40
59:Bd:64:MET:O	59:Bd:65:ARG:C	2.64	0.40
63:Bh:5:UNK:O	63:Bh:6:UNK:O	2.39	0.40
1:C1:9:U:C2	1:C1:11:A:OP2	2.74	0.40
1:C1:21:U:N3	1:C1:605:A:H2	2.20	0.40
1:C1:34:G:C4	1:C1:35:U:C5	3.09	0.40
1:C1:40:A:H62	1:C1:467:G:N2	2.19	0.40
1:C1:55:A:C4	1:C1:403:G:N1	2.89	0.40
1:C1:112:A:O2'	1:C1:113:U:C6	2.71	0.40
1:C1:310:C:H2'	1:C1:311:U:C5'	2.51	0.40
1:C1:362:G:O6	1:C1:363:G:C6	2.74	0.40
1:C1:450:U:C2'	1:C1:451:A:H8	2.31	0.40
1:C1:465:G:H2'	1:C1:466:U:O4'	2.22	0.40
1:C1:623:A:C2'	1:C1:624:G:H5"	2.52	0.40
1:C1:627:C:O2	1:C1:627:C:C2'	2.68	0.40
1:C1:703:G:C5	1:C1:704:C:C4	3.09	0.40
1:C1:745:U:H2'	1:C1:746:A:H5'	2.04	0.40
1:C1:816:G:C6	1:C1:817:A:C6	3.10	0.40
1:C1:870:C:N3	1:C1:871:G:N7	2.70	0.40
1:C1:1125:A:N7	1:C1:1126:G:C1'	2.85	0.40
1:C1:1198:G:C8	1:C1:1199:G:O4'	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1308:G:C4	1:C1:1309:C:C6	3.09	0.40
1:C1:1334:U:C5'	1:C1:1335:U:OP2	2.65	0.40
1:C1:1456:C:H3'	1:C1:1457:C:C5'	2.52	0.40
1:C1:1529:C:H2'	1:C1:1530:C:H6	1.86	0.40
1:C1:1540:G:H2'	1:C1:1541:G:C8	2.55	0.40
1:C1:1575:G:N2	1:C1:1576:A:O4'	2.54	0.40
1:C1:1584:G:H1	11:CJ:125:GLU:C	2.23	0.40
1:C1:1682:U:H6	1:C1:1682:U:H2'	1.74	0.40
5:CD:141:GLY:HA2	5:CD:171:ALA:CB	2.45	0.40
5:CD:197:GLU:HA	5:CD:210:ALA:CB	2.52	0.40
5:CD:212:LYS:O	5:CD:213:LYS:C	2.64	0.40
6:CE:109:LEU:O	6:CE:110:GLN:C	2.64	0.40
6:CE:128:LEU:O	6:CE:129:ILE:C	2.64	0.40
6:CE:175:ARG:C	6:CE:177:ALA:N	2.80	0.40
21:CT:1:MET:O	21:CT:2:ALA:HB2	2.22	0.40
21:CT:53:LYS:O	21:CT:55:GLY:N	2.50	0.40
21:CT:182:ASN:C	21:CT:184:ASN:H	2.29	0.40
21:CT:256:THR:O	21:CT:259:GLY:N	2.52	0.40
29:D1:40:A:C8	29:D1:937:G:C6	3.10	0.40
29:D1:68:C:N3	29:D1:76:G:N2	2.70	0.40
29:D1:199:A:C4	29:D1:201:A:N7	2.89	0.40
29:D1:315:C:N3	29:D1:316:U:C4	2.89	0.40
29:D1:516:A:C2	29:D1:574:U:N3	2.82	0.40
29:D1:516:A:O3'	29:D1:517:G:C8	2.75	0.40
29:D1:608:A:H2'	29:D1:609:G:C5'	2.51	0.40
29:D1:763:G:C5	29:D1:764:U:C2	3.09	0.40
29:D1:829:U:C4'	29:D1:866:A:C2	2.89	0.40
29:D1:835:G:C2'	29:D1:857:G:H22	2.35	0.40
29:D1:931:C:N3	29:D1:932:U:C5	2.90	0.40
29:D1:955:U:C2	29:D1:956:U:C6	3.09	0.40
29:D1:1038:C:O2'	29:D1:1039:U:H5'	2.22	0.40
29:D1:1081:U:O2	29:D1:1081:U:C2'	2.70	0.40
29:D1:1168:U:C2'	29:D1:1169:A:H5"	2.52	0.40
29:D1:1246:G:N2	29:D1:1247:U:O2	2.55	0.40
29:D1:1445:U:C5	29:D1:1446:A:C5	3.10	0.40
29:D1:1455:U:OP1	29:D1:3078:U:C2	2.75	0.40
29:D1:1624:G:N2	29:D1:1625:A:C2	2.88	0.40
29:D1:1635:G:N2	29:D1:1637:A:H3'	2.36	0.40
29:D1:1684:U:C5	29:D1:1685:C:N3	2.90	0.40
29:D1:1765:U:N3	29:D1:1766:G:C8	2.89	0.40
29:D1:1838:G:H4'	29:D1:1839:A:N9	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1841:A:C2	29:D1:1848:G:C5	3.09	0.40
29:D1:1847:A:C2	29:D1:1849:C:O4'	2.66	0.40
29:D1:1943:C:H5'	29:D1:3344:A:H5'	2.02	0.40
29:D1:2095:G:O2'	29:D1:2096:A:H5'	2.21	0.40
29:D1:2119:A:C8	29:D1:2119:A:H3'	2.57	0.40
29:D1:2148:U:H2'	29:D1:2149:A:C4	2.55	0.40
29:D1:2218:G:C2	29:D1:2228:A:C4	3.09	0.40
29:D1:2289:U:C2'	29:D1:2289:U:O2	2.66	0.40
29:D1:2311:G:O5'	29:D1:2311:G:H8	2.04	0.40
29:D1:2313:A:C4	29:D1:2315:G:N7	2.90	0.40
29:D1:2361:A:C2'	29:D1:2362:C:O5'	2.70	0.40
29:D1:2522:G:C6	29:D1:2587:U:C5	3.10	0.40
29:D1:2587:U:H2'	29:D1:2588:U:H6	1.85	0.40
29:D1:2674:A:H2	29:D1:2675:C:C6	2.40	0.40
29:D1:2680:A:C8	29:D1:2680:A:C3'	3.04	0.40
29:D1:2752:U:P	29:D1:2752:U:O4'	2.79	0.40
29:D1:2767:U:OP1	61:Df:33:ALA:HB2	2.20	0.40
29:D1:2860:U:C4	29:D1:2938:G:C5'	3.04	0.40
29:D1:2895:G:H2'	29:D1:2896:A:C8	2.55	0.40
29:D1:2897:A:N7	29:D1:2899:C:H1'	2.37	0.40
29:D1:2919:A:C2'	29:D1:2920:U:H5'	2.51	0.40
29:D1:3108:G:C2'	29:D1:3109:G:O5'	2.70	0.40
29:D1:3296:A:H2'	29:D1:3297:U:O4'	2.22	0.40
29:D1:3381:U:C2	29:D1:3383:G:C6	3.10	0.40
30:D2:3:U:N3	30:D2:4:U:C4	2.90	0.40
30:D2:37:G:H2'	30:D2:38:U:O5'	2.21	0.40
31:D3:70:G:C5'	31:D3:71:A:N7	2.85	0.40
31:D3:74:U:OP1	31:D3:76:C:C4	2.74	0.40
31:D3:75:G:P	31:D3:89:A:H2'	2.61	0.40
34:DC:297:SER:O	34:DC:299:ASP:CB	2.70	0.40
35:DD:250:TRP:O	35:DD:251:THR:CB	2.68	0.40
36:DE:106:ALA:O	36:DE:109:THR:N	2.55	0.40
37:DF:126:GLN:O	37:DF:128:LYS:N	2.46	0.40
38:DG:48:ASN:O	38:DG:49:ALA:O	2.39	0.40
39:DH:211:LEU:O	39:DH:212:ALA:O	2.39	0.40
42:DK:84:LEU:HA	42:DK:89:TYR:N	2.35	0.40
72:DL:130:LYS:O	72:DL:131:GLU:C	2.64	0.40
43:DN:33:ALA:HA	43:DN:48:GLY:HA3	2.03	0.40
45:DP:53:LYS:O	45:DP:54:TYR:C	2.65	0.40
47:DR:149:ALA:HB2	47:DR:157:PRO:CB	2.52	0.40
48:DS:8:LYS:O	48:DS:11:ALA:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DW:90:ALA:C	52:DW:92:LYS:N	2.79	0.40
54:DY:10:LYS:O	54:DY:11:HIS:C	2.65	0.40
54:DY:70:LYS:O	54:DY:112:ILE:HA	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AA	218/252 (86%)	75 (34%)	68 (31%)	75 (34%)	0	0
2	CA	218/252 (86%)	78 (36%)	63 (29%)	77 (35%)	0	0
3	AB	217/254 (85%)	85 (39%)	54 (25%)	78 (36%)	0	0
3	CB	217/254 (85%)	81 (37%)	62 (29%)	74 (34%)	0	0
4	AC	187/240 (78%)	72 (38%)	56 (30%)	59 (32%)	0	0
4	CC	187/240 (78%)	69 (37%)	55 (29%)	63 (34%)	0	0
5	AD	165/225 (73%)	55 (33%)	46 (28%)	64 (39%)	0	0
5	CD	165/225 (73%)	58 (35%)	44 (27%)	63 (38%)	0	0
6	AE	153/197 (78%)	48 (31%)	54 (35%)	51 (33%)	0	0
6	CE	153/197 (78%)	48 (31%)	49 (32%)	56 (37%)	0	0
7	AF	75/156 (48%)	32 (43%)	18 (24%)	25 (33%)	0	0
7	CF	75/156 (48%)	31 (41%)	20 (27%)	24 (32%)	0	0
8	AG	115/151 (76%)	46 (40%)	38 (33%)	31 (27%)	0	0
8	CG	115/151 (76%)	49 (43%)	33 (29%)	33 (29%)	0	0
9	AH	126/137 (92%)	52 (41%)	38 (30%)	36 (29%)	0	0
9	CH	126/137 (92%)	51 (40%)	39 (31%)	36 (29%)	0	0
10	AI	119/142 (84%)	38 (32%)	40 (34%)	41 (34%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	CI	119/142 (84%)	43 (36%)	35 (29%)	41 (34%)	0	0
11	AJ	132/143 (92%)	57 (43%)	33 (25%)	42 (32%)	0	0
11	CJ	132/143 (92%)	52 (39%)	37 (28%)	43 (33%)	0	0
12	AK	65/136 (48%)	27 (42%)	16 (25%)	22 (34%)	0	0
12	CK	65/136 (48%)	28 (43%)	16 (25%)	21 (32%)	0	0
13	AL	116/146 (80%)	48 (41%)	34 (29%)	34 (29%)	0	0
13	CL	116/146 (80%)	48 (41%)	33 (28%)	35 (30%)	0	0
14	AM	100/144 (69%)	38 (38%)	28 (28%)	34 (34%)	0	0
14	CM	100/144 (69%)	36 (36%)	27 (27%)	37 (37%)	0	0
15	AN	109/121 (90%)	49 (45%)	30 (28%)	30 (28%)	0	0
15	CN	109/121 (90%)	49 (45%)	29 (27%)	31 (28%)	0	0
16	AO	125/130 (96%)	48 (38%)	40 (32%)	37 (30%)	0	0
16	CO	125/130 (96%)	49 (39%)	36 (29%)	40 (32%)	0	0
17	AP	114/145 (79%)	48 (42%)	24 (21%)	42 (37%)	0	0
17	CP	114/145 (79%)	45 (40%)	28 (25%)	41 (36%)	0	0
18	AQ	65/108 (60%)	28 (43%)	21 (32%)	16 (25%)	0	1
18	CQ	61/108 (56%)	28 (46%)	18 (30%)	15 (25%)	0	1
19	AR	45/67 (67%)	17 (38%)	12 (27%)	16 (36%)	0	0
19	CR	45/67 (67%)	17 (38%)	11 (24%)	17 (38%)	0	0
20	AS	37/56 (66%)	8 (22%)	14 (38%)	15 (40%)	0	0
20	CS	37/56 (66%)	8 (22%)	13 (35%)	16 (43%)	0	0
21	AT	309/319 (97%)	180 (58%)	71 (23%)	58 (19%)	0	2
21	CT	309/319 (97%)	184 (60%)	66 (21%)	59 (19%)	0	2
32	BA	211/217 (97%)	76 (36%)	67 (32%)	68 (32%)	0	0
32	DA	211/217 (97%)	76 (36%)	79 (37%)	56 (26%)	0	0
33	BB	228/254 (90%)	80 (35%)	55 (24%)	93 (41%)	0	0
33	DB	228/254 (90%)	83 (36%)	55 (24%)	90 (40%)	0	0
34	BC	362/387 (94%)	112 (31%)	100 (28%)	150 (41%)	0	0
34	DC	362/387 (94%)	109 (30%)	102 (28%)	151 (42%)	0	0
35	BD	266/362 (74%)	111 (42%)	79 (30%)	76 (29%)	0	0
35	DD	266/362 (74%)	109 (41%)	78 (29%)	79 (30%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	BE	285/297 (96%)	108 (38%)	82 (29%)	95 (33%)	0	0
36	DE	285/297 (96%)	105 (37%)	79 (28%)	101 (35%)	0	0
37	BF	174/176 (99%)	44 (25%)	62 (36%)	68 (39%)	0	0
37	DF	174/176 (99%)	43 (25%)	61 (35%)	70 (40%)	0	0
38	BG	211/244 (86%)	85 (40%)	62 (29%)	64 (30%)	0	0
38	DG	211/244 (86%)	89 (42%)	60 (28%)	62 (29%)	0	0
39	BH	171/256 (67%)	59 (34%)	58 (34%)	54 (32%)	0	0
39	DH	171/256 (67%)	60 (35%)	62 (36%)	49 (29%)	0	0
40	BI	189/191 (99%)	76 (40%)	60 (32%)	53 (28%)	0	0
40	DI	189/191 (99%)	79 (42%)	57 (30%)	53 (28%)	0	0
41	BJ	204/221 (92%)	80 (39%)	52 (26%)	72 (35%)	0	0
41	DJ	204/221 (92%)	75 (37%)	55 (27%)	74 (36%)	0	0
42	BK	163/174 (94%)	57 (35%)	42 (26%)	64 (39%)	0	0
42	DK	163/174 (94%)	56 (34%)	46 (28%)	61 (37%)	0	0
43	BN	118/138 (86%)	27 (23%)	44 (37%)	47 (40%)	0	0
43	DN	118/138 (86%)	28 (24%)	39 (33%)	51 (43%)	0	0
44	BO	185/204 (91%)	77 (42%)	49 (26%)	59 (32%)	0	0
44	DO	185/204 (91%)	76 (41%)	53 (29%)	56 (30%)	0	0
45	BP	194/199 (98%)	81 (42%)	56 (29%)	57 (29%)	0	0
45	DP	194/199 (98%)	77 (40%)	62 (32%)	55 (28%)	0	0
46	BQ	152/184 (83%)	62 (41%)	44 (29%)	46 (30%)	0	0
46	DQ	152/184 (83%)	62 (41%)	45 (30%)	45 (30%)	0	0
47	BR	141/186 (76%)	63 (45%)	28 (20%)	50 (36%)	0	0
47	DR	141/186 (76%)	59 (42%)	32 (23%)	50 (36%)	0	0
48	BS	186/189 (98%)	104 (56%)	57 (31%)	25 (13%)	0	3
48	DS	186/189 (98%)	101 (54%)	60 (32%)	25 (13%)	0	3
49	BT	117/160 (73%)	53 (45%)	18 (15%)	46 (39%)	0	0
49	DT	117/160 (73%)	50 (43%)	23 (20%)	44 (38%)	0	0
50	BU	127/137 (93%)	64 (50%)	28 (22%)	35 (28%)	0	0
50	DU	127/137 (93%)	70 (55%)	21 (16%)	36 (28%)	0	0
51	BV	57/155 (37%)	14 (25%)	19 (33%)	24 (42%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	DV	57/155 (37%)	15 (26%)	16 (28%)	26 (46%)	0	0
52	BW	92/142 (65%)	30 (33%)	30 (33%)	32 (35%)	0	0
52	DW	92/142 (65%)	32 (35%)	28 (30%)	32 (35%)	0	0
53	BX	105/127 (83%)	53 (50%)	28 (27%)	24 (23%)	0	1
53	DX	105/127 (83%)	55 (52%)	30 (29%)	20 (19%)	0	2
54	BY	147/149 (99%)	37 (25%)	47 (32%)	63 (43%)	0	0
54	DY	147/149 (99%)	36 (24%)	51 (35%)	60 (41%)	0	0
55	BZ	96/105 (91%)	48 (50%)	28 (29%)	20 (21%)	0	1
55	DZ	96/105 (91%)	51 (53%)	28 (29%)	17 (18%)	0	2
56	Ba	84/113 (74%)	27 (32%)	27 (32%)	30 (36%)	0	0
56	Da	84/113 (74%)	25 (30%)	28 (33%)	31 (37%)	0	0
57	Bb	123/130 (95%)	39 (32%)	28 (23%)	56 (46%)	0	0
57	Db	123/130 (95%)	41 (33%)	31 (25%)	51 (42%)	0	0
58	Bc	66/120 (55%)	28 (42%)	23 (35%)	15 (23%)	0	1
58	Dc	66/120 (55%)	28 (42%)	26 (39%)	12 (18%)	0	2
59	Bd	70/88 (80%)	19 (27%)	20 (29%)	31 (44%)	0	0
59	Dd	70/88 (80%)	17 (24%)	24 (34%)	29 (41%)	0	0
60	Be	46/51 (90%)	25 (54%)	8 (17%)	13 (28%)	0	0
60	De	46/51 (90%)	22 (48%)	12 (26%)	12 (26%)	0	1
61	Bf	93/106 (88%)	37 (40%)	28 (30%)	28 (30%)	0	0
61	Df	93/106 (88%)	37 (40%)	28 (30%)	28 (30%)	0	0
62	Bg	81/92 (88%)	31 (38%)	27 (33%)	23 (28%)	0	0
62	Dg	81/92 (88%)	32 (40%)	24 (30%)	25 (31%)	0	0
72	DL	136/165 (82%)	42 (31%)	42 (31%)	52 (38%)	0	0
73	DM	126/312 (40%)	48 (38%)	31 (25%)	47 (37%)	0	0
All	All	14930/18123 (82%)	5798 (39%)	4273 (29%)	4859 (32%)	0	0

All (4859) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AA	11	PRO
2	AA	13	ASP
2	AA	14	ALA

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Mol	Chain	Res	Type
2	AA	21	ASN
2	AA	24	LEU
2	AA	36	TYR
2	AA	40	ALA
2	AA	41	ARG
2	AA	42	PRO
2	AA	43	ASP
2	AA	45	VAL
2	AA	49	ASN
2	AA	65	ALA
2	AA	70	PRO
2	AA	71	GLU
2	AA	94	GLY
2	AA	97	PRO
2	AA	113	ARG
2	AA	117	GLU
2	AA	118	PRO
2	AA	121	VAL
2	AA	124	THR
2	AA	126	PRO
2	AA	140	ASN
2	AA	143	VAL
2	AA	159	ALA
2	AA	160	ILE
2	AA	161	PRO
2	AA	163	ASN
2	AA	172	LEU
2	AA	187	ALA
2	AA	193	GLN
2	AA	194	PRO
2	AA	202	TYR
2	AA	204	TYR
2	AA	220	THR
3	AB	37	PRO
3	AB	38	VAL
3	AB	59	HIS
3	AB	62	PRO
3	AB	66	PHE
3	AB	68	ILE
3	AB	73	LEU
3	AB	74	PRO
3	AB	84	LYS

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Mol	Chain	Res	Type
3	AB	85	PRO
3	AB	125	ILE
3	AB	126	ARG
3	AB	133	LYS
3	AB	134	LEU
3	AB	135	SER
3	AB	136	VAL
3	AB	139	ILE
3	AB	140	ARG
3	AB	143	TYR
3	AB	147	ASN
3	AB	151	PRO
3	AB	159	THR
3	AB	164	SER
3	AB	165	VAL
3	AB	166	THR
3	AB	189	GLN
3	AB	193	VAL
3	AB	196	VAL
3	AB	209	ASN
3	AB	220	ASN
3	AB	225	LEU
3	AB	234	PRO
3	AB	235	LEU
3	AB	236	PRO
3	AB	237	VAL
3	AB	238	SER
3	AB	239	PRO
3	AB	240	LEU
3	AB	243	TYR
4	AC	8	LYS
4	AC	9	ARG
4	AC	16	VAL
4	AC	22	ASN
4	AC	28	GLU
4	AC	37	VAL
4	AC	43	PRO
4	AC	66	ILE
4	AC	69	LEU
4	AC	70	THR
4	AC	76	ARG
4	AC	79	TYR

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Mol	Chain	Res	Type
4	AC	80	ALA
4	AC	81	PRO
4	AC	94	ARG
4	AC	96	LEU
4	AC	98	ALA
4	AC	100	ALA
4	AC	131	ALA
4	AC	136	VAL
4	AC	145	ALA
4	AC	152	PHE
4	AC	157	LEU
4	AC	162	GLN
4	AC	163	PRO
4	AC	167	PHE
4	AC	168	ILE
4	AC	174	HIS
4	AC	175	VAL
5	AD	40	ILE
5	AD	46	TRP
5	AD	53	VAL
5	AD	57	SER
5	AD	61	TYR
5	AD	66	GLN
5	AD	87	CYS
5	AD	88	PRO
5	AD	90	ILE
5	AD	91	GLU
5	AD	92	ARG
5	AD	93	LEU
5	AD	94	THR
5	AD	128	ASN
5	AD	129	PRO
5	AD	160	VAL
5	AD	162	VAL
5	AD	163	SER
5	AD	164	PRO
5	AD	182	ALA
5	AD	184	PHE
5	AD	187	ILE
5	AD	195	ALA
5	AD	216	GLU
6	AE	39	LYS

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Mol	Chain	Res	Type
6	AE	41	GLU
6	AE	55	ALA
6	AE	56	ALA
6	AE	64	GLU
6	AE	67	PRO
6	AE	81	VAL
6	AE	82	ARG
6	AE	83	VAL
6	AE	85	VAL
6	AE	99	LEU
6	AE	100	LYS
6	AE	106	GLU
6	AE	112	GLN
6	AE	121	SER
6	AE	122	VAL
6	AE	124	HIS
6	AE	130	THR
6	AE	131	GLN
6	AE	132	ARG
6	AE	140	ILE
6	AE	141	VAL
6	AE	143	ILE
6	AE	146	PHE
6	AE	152	SER
6	AE	153	GLU
6	AE	169	PRO
6	AE	174	ARG
7	AF	70	ILE
7	AF	80	MET
7	AF	83	THR
7	AF	86	ILE
7	AF	90	TYR
7	AF	94	ILE
7	AF	95	PRO
7	AF	98	ASN
7	AF	111	VAL
7	AF	112	SER
7	AF	113	PRO
7	AF	125	VAL
7	AF	130	PRO
7	AF	133	LYS
8	AG	46	THR

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Mol	Chain	Res	Type
8	AG	47	PRO
8	AG	50	ILE
8	AG	62	GLN
8	AG	65	VAL
8	AG	69	ASN
8	AG	71	ILE
8	AG	82	PRO
8	AG	84	ILE
8	AG	85	PRO
8	AG	86	GLU
8	AG	126	ALA
8	AG	132	VAL
8	AG	135	LEU
8	AG	136	PRO
8	AG	137	PRO
9	AH	4	VAL
9	AH	23	PHE
9	AH	26	THR
9	AH	40	ALA
9	AH	42	VAL
9	AH	43	THR
9	AH	50	ALA
9	AH	64	ALA
9	AH	65	GLN
9	AH	67	VAL
9	AH	79	VAL
9	AH	94	PRO
9	AH	96	PRO
9	AH	101	ALA
9	AH	122	PRO
9	AH	128	LYS
10	AI	11	VAL
10	AI	13	LYS
10	AI	23	GLU
10	AI	38	PRO
10	AI	51	SER
10	AI	53	PRO
10	AI	61	ARG
10	AI	68	PRO
10	AI	73	PRO
10	AI	75	PRO
10	AI	80	MET

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Mol	Chain	Res	Type
10	AI	85	ILE
10	AI	86	VAL
10	AI	121	ILE
10	AI	125	PRO
11	AJ	34	SER
11	AJ	35	PRO
11	AJ	36	ILE
11	AJ	38	LEU
11	AJ	42	GLU
11	AJ	57	LEU
11	AJ	61	SER
11	AJ	63	ILE
11	AJ	70	THR
11	AJ	74	HIS
11	AJ	85	ILE
11	AJ	97	VAL
11	AJ	105	LEU
11	AJ	118	ILE
11	AJ	126	PRO
11	AJ	136	SER
12	AK	22	PRO
12	AK	26	LEU
12	AK	29	GLN
12	AK	38	ILE
12	AK	39	ALA
12	AK	44	LYS
12	AK	60	ARG
12	AK	65	PRO
12	AK	69	ILE
13	AL	18	LEU
13	AL	27	LYS
13	AL	65	GLU
13	AL	66	LEU
13	AL	71	GLN
13	AL	72	ILE
13	AL	74	GLN
13	AL	75	ASN
13	AL	79	TYR
13	AL	80	LYS
13	AL	81	ILE
13	AL	98	TYR
13	AL	99	HIS

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Mol	Chain	Res	Type
13	AL	102	ALA
13	AL	117	LYS
13	AL	118	LYS
14	AM	2	PRO
14	AM	4	VAL
14	AM	8	ASP
14	AM	9	VAL
14	AM	25	GLN
14	AM	36	ILE
14	AM	68	ARG
14	AM	110	LYS
14	AM	111	ILE
14	AM	113	ILE
14	AM	117	SER
14	AM	119	LYS
14	AM	125	SER
14	AM	126	GLU
14	AM	127	ASN
14	AM	129	GLN
15	AN	13	GLU
15	AN	14	GLN
15	AN	15	GLN
15	AN	24	ILE
15	AN	31	VAL
15	AN	45	ALA
15	AN	50	LEU
15	AN	55	PRO
15	AN	59	PRO
15	AN	72	ASN
15	AN	76	SER
15	AN	93	LEU
15	AN	96	PRO
15	AN	108	ILE
15	AN	113	ASP
15	AN	117	VAL
16	AO	5	SER
16	AO	24	GLN
16	AO	27	ILE
16	AO	28	ARG
16	AO	29	PRO
16	AO	30	SER
16	AO	31	SER

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Mol	Chain	Res	Type
16	AO	38	LEU
16	AO	63	VAL
16	AO	76	SER
16	AO	77	PRO
16	AO	79	PHE
16	AO	85	ASP
16	AO	86	ILE
16	AO	95	PRO
16	AO	97	ARG
16	AO	99	PHE
16	AO	100	GLY
16	AO	103	ILE
16	AO	106	THR
16	AO	118	ARG
16	AO	120	HIS
16	AO	126	LEU
17	AP	37	ALA
17	AP	48	HIS
17	AP	49	ALA
17	AP	59	ILE
17	AP	64	PRO
17	AP	70	LYS
17	AP	78	LYS
17	AP	87	VAL
17	AP	90	ASP
17	AP	104	LEU
17	AP	105	ALA
17	AP	108	GLY
17	AP	119	GLY
17	AP	124	VAL
17	AP	127	VAL
17	AP	130	VAL
17	AP	135	LEU
17	AP	138	GLU
18	AQ	42	LEU
18	AQ	57	TYR
18	AQ	71	ILE
18	AQ	85	LYS
18	AQ	88	ILE
18	AQ	90	LYS
18	AQ	91	PRO
18	AQ	97	LYS

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Mol	Chain	Res	Type
19	AR	10	ALA
19	AR	14	LYS
19	AR	15	VAL
19	AR	34	GLU
19	AR	39	THR
19	AR	44	VAL
20	AS	20	GLN
20	AS	24	CYS
20	AS	26	SER
20	AS	27	HIS
20	AS	34	TYR
20	AS	43	PHE
20	AS	48	ASN
21	AT	2	ALA
21	AT	48	THR
21	AT	66	HIS
21	AT	100	TYR
21	AT	119	ALA
21	AT	189	GLU
21	AT	195	HIS
21	AT	198	ASN
21	AT	241	PHE
21	AT	247	PRO
21	AT	269	TYR
21	AT	281	TYR
21	AT	295	SER
32	BA	24	LYS
32	BA	36	VAL
32	BA	39	LYS
32	BA	42	ASP
32	BA	43	PRO
32	BA	55	LEU
32	BA	56	PRO
32	BA	58	CYS
32	BA	59	PRO
32	BA	60	ARG
32	BA	61	PRO
32	BA	109	ALA
32	BA	115	VAL
32	BA	120	VAL
32	BA	122	ARG
32	BA	124	LEU

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Mol	Chain	Res	Type
32	BA	126	PRO
32	BA	127	GLN
32	BA	128	LEU
32	BA	129	SER
32	BA	135	PRO
32	BA	143	ASP
32	BA	151	VAL
32	BA	174	MET
32	BA	201	VAL
32	BA	207	LYS
32	BA	208	SER
32	BA	209	SER
32	BA	210	MET
32	BA	212	PRO
33	BB	5	ILE
33	BB	13	GLY
33	BB	14	SER
33	BB	16	PHE
33	BB	24	GLN
33	BB	26	ALA
33	BB	38	HIS
33	BB	50	HIS
33	BB	61	VAL
33	BB	65	ASP
33	BB	79	ASN
33	BB	83	HIS
33	BB	84	THR
33	BB	90	ALA
33	BB	98	VAL
33	BB	107	VAL
33	BB	108	PRO
33	BB	110	GLY
33	BB	111	THR
33	BB	120	PRO
33	BB	136	ILE
33	BB	137	ILE
33	BB	139	HIS
33	BB	141	PRO
33	BB	148	VAL
33	BB	149	ARG
33	BB	152	SER
33	BB	166	ILE

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Mol	Chain	Res	Type
33	BB	176	ASP
33	BB	178	PRO
33	BB	182	ALA
33	BB	188	LYS
33	BB	197	PRO
33	BB	199	THR
33	BB	207	VAL
33	BB	208	ASP
33	BB	210	PRO
33	BB	211	HIS
33	BB	217	GLN
33	BB	219	ILE
33	BB	220	GLY
33	BB	222	ALA
33	BB	230	VAL
33	BB	233	GLN
33	BB	234	LYS
33	BB	235	ALA
33	BB	237	LEU
33	BB	241	ARG
33	BB	242	ARG
33	BB	243	THR
34	BC	3	HIS
34	BC	12	GLY
34	BC	21	ARG
34	BC	23	ALA
34	BC	33	PRO
34	BC	40	PRO
34	BC	41	VAL
34	BC	42	ALA
34	BC	43	LEU
34	BC	44	THR
34	BC	47	LEU
34	BC	61	ASP
34	BC	63	PRO
34	BC	68	HIS
34	BC	71	GLU
34	BC	81	THR
34	BC	83	PRO
34	BC	86	VAL
34	BC	89	VAL
34	BC	93	VAL

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Mol	Chain	Res	Type
34	BC	94	GLU
34	BC	97	ARG
34	BC	104	THR
34	BC	105	VAL
34	BC	106	TRP
34	BC	109	HIS
34	BC	113	GLU
34	BC	117	ARG
34	BC	122	TRP
34	BC	123	TYR
34	BC	131	THR
34	BC	132	LYS
34	BC	137	TYR
34	BC	139	GLN
34	BC	143	GLY
34	BC	153	LYS
34	BC	158	VAL
34	BC	160	VAL
34	BC	165	GLN
34	BC	166	ILE
34	BC	167	ARG
34	BC	170	PRO
34	BC	173	GLN
34	BC	174	LYS
34	BC	175	LYS
34	BC	176	ALA
34	BC	187	SER
34	BC	188	ILE
34	BC	192	VAL
34	BC	197	GLU
34	BC	200	GLU
34	BC	209	PHE
34	BC	220	VAL
34	BC	221	THR
34	BC	238	LEU
34	BC	239	PRO
34	BC	244	ARG
34	BC	248	LYS
34	BC	257	PRO
34	BC	259	HIS
34	BC	264	VAL
34	BC	270	ARG

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Mol	Chain	Res	Type
34	BC	272	TYR
34	BC	274	SER
34	BC	275	ARG
34	BC	279	ASN
34	BC	284	ARG
34	BC	296	THR
34	BC	301	THR
34	BC	306	THR
34	BC	307	PRO
34	BC	317	ILE
34	BC	318	LYS
34	BC	320	ASP
34	BC	324	VAL
34	BC	327	CYS
34	BC	331	ASN
34	BC	333	LYS
34	BC	335	ILE
34	BC	346	THR
34	BC	351	LEU
34	BC	359	ILE
35	BD	8	VAL
35	BD	19	ALA
35	BD	21	PRO
35	BD	23	PRO
35	BD	24	ALA
35	BD	28	ALA
35	BD	54	GLU
35	BD	69	ARG
35	BD	77	VAL
35	BD	90	PHE
35	BD	98	ARG
35	BD	100	PHE
35	BD	102	PRO
35	BD	107	ARG
35	BD	116	ASN
35	BD	131	VAL
35	BD	140	HIS
35	BD	149	PRO
35	BD	150	LEU
35	BD	159	ILE
35	BD	160	GLN
35	BD	166	VAL

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Mol	Chain	Res	Type
35	BD	182	LEU
35	BD	194	TYR
35	BD	212	ASP
35	BD	239	ALA
35	BD	252	GLU
35	BD	254	ALA
35	BD	257	LYS
35	BD	258	LEU
35	BD	261	VAL
35	BD	265	GLU
35	BD	266	THR
35	BD	267	VAL
35	BD	274	TYR
36	BE	12	TYR
36	BE	13	SER
36	BE	17	GLN
36	BE	18	THR
36	BE	19	PRO
36	BE	21	ARG
36	BE	32	GLN
36	BE	46	THR
36	BE	47	PRO
36	BE	48	LYS
36	BE	49	TYR
36	BE	50	ARG
36	BE	68	THR
36	BE	69	ILE
36	BE	78	ALA
36	BE	83	LEU
36	BE	84	PRO
36	BE	88	ILE
36	BE	100	ALA
36	BE	101	THR
36	BE	139	PRO
36	BE	148	ILE
36	BE	151	GLN
36	BE	159	VAL
36	BE	160	PHE
36	BE	171	LEU
36	BE	174	PRO
36	BE	178	ASN
36	BE	185	PHE

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Mol	Chain	Res	Type
36	BE	191	ASP
36	BE	200	PHE
36	BE	211	LEU
36	BE	214	ASP
36	BE	231	ILE
36	BE	234	ASP
36	BE	238	ASP
36	BE	239	ILE
36	BE	246	ALA
36	BE	256	THR
36	BE	271	LYS
36	BE	293	LEU
37	BF	4	GLN
37	BF	6	ALA
37	BF	7	PRO
37	BF	10	TYR
37	BF	11	PRO
37	BF	13	GLU
37	BF	16	ALA
37	BF	26	ARG
37	BF	27	PRO
37	BF	28	GLN
37	BF	32	ALA
37	BF	33	SER
37	BF	34	LEU
37	BF	39	VAL
37	BF	44	ALA
37	BF	47	PHE
37	BF	52	VAL
37	BF	53	VAL
37	BF	68	PRO
37	BF	70	LYS
37	BF	71	VAL
37	BF	85	ILE
37	BF	86	ALA
37	BF	90	LYS
37	BF	92	SER
37	BF	93	VAL
37	BF	99	GLU
37	BF	106	PHE
37	BF	109	GLU
37	BF	110	LYS

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Mol	Chain	Res	Type
37	BF	116	LYS
37	BF	118	GLU
37	BF	121	LEU
37	BF	122	PHE
37	BF	126	GLN
37	BF	137	ASP
37	BF	144	ALA
37	BF	146	ILE
37	BF	150	LYS
37	BF	151	LYS
37	BF	167	ASN
37	BF	172	HIS
37	BF	174	LEU
38	BG	32	ALA
38	BG	49	ALA
38	BG	50	ALA
38	BG	74	SER
38	BG	81	HIS
38	BG	82	LYS
38	BG	84	VAL
38	BG	85	PHE
38	BG	86	VAL
38	BG	96	PRO
38	BG	97	PRO
38	BG	112	ASN
38	BG	136	TYR
38	BG	138	TYR
38	BG	148	VAL
38	BG	149	TYR
38	BG	156	ILE
38	BG	160	ARG
38	BG	162	PRO
38	BG	177	GLY
38	BG	180	SER
38	BG	188	ILE
38	BG	193	PRO
38	BG	195	PHE
38	BG	202	LEU
38	BG	204	PRO
38	BG	206	LYS
38	BG	210	PRO
38	BG	217	PRO

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Mol	Chain	Res	Type
38	BG	223	PHE
38	BG	224	ILE
38	BG	228	SER
38	BG	229	PHE
38	BG	232	ARG
38	BG	233	GLU
38	BG	234	GLU
39	BH	96	LYS
39	BH	98	ARG
39	BH	99	PRO
39	BH	109	LEU
39	BH	110	THR
39	BH	128	LYS
39	BH	131	ALA
39	BH	132	VAL
39	BH	151	VAL
39	BH	181	LYS
39	BH	194	THR
39	BH	201	THR
39	BH	203	VAL
39	BH	209	ALA
39	BH	210	ALA
39	BH	212	ALA
39	BH	214	LEU
39	BH	227	ASP
39	BH	233	TRP
39	BH	238	LEU
39	BH	245	LYS
39	BH	249	ARG
40	BI	2	LYS
40	BI	5	GLN
40	BI	22	SER
40	BI	30	PRO
40	BI	41	ILE
40	BI	43	VAL
40	BI	46	THR
40	BI	53	ILE
40	BI	86	TYR
40	BI	104	VAL
40	BI	110	LYS
40	BI	122	LYS
40	BI	127	PRO

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Mol	Chain	Res	Type
40	BI	138	THR
40	BI	140	VAL
40	BI	141	LYS
40	BI	142	ASP
40	BI	167	VAL
40	BI	169	ASN
40	BI	170	LYS
40	BI	172	ILE
40	BI	186	PHE
40	BI	189	GLU
41	BJ	5	PRO
41	BJ	11	TYR
41	BJ	13	LYS
41	BJ	14	ASN
41	BJ	16	PRO
41	BJ	17	TYR
41	BJ	25	ALA
41	BJ	29	SER
41	BJ	34	TYR
41	BJ	39	LYS
41	BJ	43	VAL
41	BJ	46	PHE
41	BJ	48	LEU
41	BJ	57	LEU
41	BJ	61	SER
41	BJ	70	ILE
41	BJ	92	HIS
41	BJ	115	MET
41	BJ	136	PHE
41	BJ	145	LYS
41	BJ	147	VAL
41	BJ	160	PRO
41	BJ	162	GLN
41	BJ	169	LYS
41	BJ	178	ARG
41	BJ	190	VAL
41	BJ	201	SER
41	BJ	208	ASN
42	BK	8	PRO
42	BK	15	GLU
42	BK	18	VAL
42	BK	23	VAL

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Mol	Chain	Res	Type
42	BK	32	ARG
42	BK	34	SER
42	BK	45	PRO
42	BK	47	GLN
42	BK	49	LYS
42	BK	50	ALA
42	BK	52	TYR
42	BK	54	VAL
42	BK	55	ARG
42	BK	56	THR
42	BK	62	ASN
42	BK	65	ILE
42	BK	66	ALA
42	BK	69	VAL
42	BK	76	ALA
42	BK	85	LYS
42	BK	86	VAL
42	BK	88	GLU
42	BK	102	PHE
42	BK	108	GLU
42	BK	110	ILE
42	BK	115	LYS
42	BK	118	PRO
42	BK	120	ILE
42	BK	122	ILE
42	BK	129	VAL
42	BK	132	ASN
42	BK	133	ARG
42	BK	134	PRO
42	BK	143	ARG
42	BK	148	VAL
42	BK	154	THR
43	BN	10	SER
43	BN	15	VAL
43	BN	19	ARG
43	BN	20	VAL
43	BN	23	ILE
43	BN	24	LYS
43	BN	25	LYS
43	BN	27	GLN
43	BN	29	ALA
43	BN	43	LYS

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Mol	Chain	Res	Type
43	BN	54	PRO
43	BN	55	ARG
43	BN	59	ASN
43	BN	60	LEU
43	BN	62	GLN
43	BN	63	VAL
43	BN	64	VAL
43	BN	66	THR
43	BN	67	PRO
43	BN	70	PHE
43	BN	81	VAL
43	BN	82	SER
43	BN	90	VAL
43	BN	103	ILE
43	BN	111	ALA
43	BN	126	GLN
43	BN	127	LYS
44	BO	17	ASP
44	BO	30	TYR
44	BO	35	VAL
44	BO	39	ALA
44	BO	42	PRO
44	BO	46	ASP
44	BO	53	TYR
44	BO	54	LYS
44	BO	55	ALA
44	BO	60	VAL
44	BO	75	VAL
44	BO	76	PRO
44	BO	79	ALA
44	BO	80	THR
44	BO	83	LYS
44	BO	84	PRO
44	BO	96	ARG
44	BO	97	SER
44	BO	98	LEU
44	BO	121	VAL
44	BO	127	TYR
44	BO	136	ASP
44	BO	156	HIS
44	BO	161	ALA
45	BP	5	PRO

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Mol	Chain	Res	Type
45	BP	12	LYS
45	BP	16	VAL
45	BP	23	VAL
45	BP	37	ARG
45	BP	38	ALA
45	BP	61	ALA
45	BP	66	LYS
45	BP	70	PRO
45	BP	75	ALA
45	BP	76	PRO
45	BP	83	ALA
45	BP	100	GLU
45	BP	108	ILE
45	BP	109	PRO
45	BP	110	PRO
45	BP	112	TYR
45	BP	115	LYS
45	BP	120	VAL
45	BP	121	PRO
45	BP	125	ARG
45	BP	126	VAL
45	BP	128	ARG
45	BP	131	PRO
45	BP	134	LYS
45	BP	147	TRP
45	BP	188	SER
46	BQ	9	THR
46	BQ	10	ASN
46	BQ	12	ALA
46	BQ	20	SER
46	BQ	30	ARG
46	BQ	33	ALA
46	BQ	52	LEU
46	BQ	56	ARG
46	BQ	69	ARG
46	BQ	71	ALA
46	BQ	75	GLU
46	BQ	83	TRP
46	BQ	84	PRO
46	BQ	106	GLY
46	BQ	110	THR
46	BQ	114	VAL

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Mol	Chain	Res	Type
46	BQ	118	GLN
46	BQ	122	ALA
46	BQ	123	PRO
46	BQ	142	SER
47	BR	18	ALA
47	BR	19	PRO
47	BR	22	ASP
47	BR	39	ARG
47	BR	42	ALA
47	BR	43	PRO
47	BR	60	PRO
47	BR	61	PRO
47	BR	76	ALA
47	BR	93	ILE
47	BR	94	PHE
47	BR	97	PRO
47	BR	103	ALA
47	BR	104	LEU
47	BR	108	ALA
47	BR	110	ALA
47	BR	111	ARG
47	BR	112	ALA
47	BR	117	ALA
47	BR	123	THR
47	BR	143	PRO
47	BR	145	ASN
47	BR	153	PHE
48	BS	19	LYS
48	BS	60	LYS
48	BS	104	ARG
48	BS	106	LEU
48	BS	130	ASN
48	BS	133	LYS
48	BS	134	HIS
48	BS	135	LYS
48	BS	143	ILE
49	BT	9	SER
49	BT	15	PHE
49	BT	16	GLN
49	BT	31	LEU
49	BT	32	LYS
49	BT	34	TYR

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Mol	Chain	Res	Type
49	BT	35	LYS
49	BT	43	LYS
49	BT	46	GLY
49	BT	49	GLN
49	BT	54	HIS
49	BT	64	VAL
49	BT	66	ASN
49	BT	67	VAL
49	BT	69	LYS
49	BT	70	SER
49	BT	75	ILE
49	BT	76	ILE
49	BT	79	MET
49	BT	81	GLY
49	BT	85	LEU
49	BT	98	HIS
49	BT	110	LYS
50	BU	19	VAL
50	BU	31	ALA
50	BU	40	LYS
50	BU	46	LEU
50	BU	47	ASN
50	BU	66	LYS
50	BU	81	GLN
50	BU	94	TYR
50	BU	95	PHE
50	BU	97	ASP
50	BU	105	PRO
50	BU	112	SER
50	BU	131	SER
50	BU	134	GLY
50	BU	135	VAL
51	BV	3	VAL
51	BV	4	GLU
51	BV	5	ILE
51	BV	6	ASP
51	BV	8	PHE
51	BV	22	VAL
51	BV	23	ARG
51	BV	25	ASP
51	BV	28	ILE
51	BV	29	PHE

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Mol	Chain	Res	Type
51	BV	33	ASN
51	BV	34	SER
51	BV	52	THR
51	BV	57	LYS
52	BW	49	LYS
52	BW	51	VAL
52	BW	52	PRO
52	BW	53	HIS
52	BW	58	ASP
52	BW	61	LYS
52	BW	62	VAL
52	BW	64	GLU
52	BW	66	PRO
52	BW	67	ILE
52	BW	70	GLU
52	BW	84	PHE
52	BW	102	LEU
52	BW	106	ASP
52	BW	129	ASP
52	BW	130	TYR
53	BX	19	TYR
53	BX	20	PHE
53	BX	58	VAL
53	BX	59	VAL
53	BX	79	ALA
53	BX	100	HIS
53	BX	101	PRO
54	BY	2	PRO
54	BY	3	SER
54	BY	9	ARG
54	BY	10	LYS
54	BY	12	ARG
54	BY	21	ARG
54	BY	22	ILE
54	BY	27	LYS
54	BY	30	GLY
54	BY	34	MET
54	BY	36	GLY
54	BY	40	HIS
54	BY	43	ILE
54	BY	44	ASN
54	BY	50	PRO

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Mol	Chain	Res	Type
54	BY	56	VAL
54	BY	60	TYR
54	BY	61	PHE
54	BY	69	TRP
54	BY	74	ASN
54	BY	78	LEU
54	BY	79	TRP
54	BY	85	ASP
54	BY	88	ASP
54	BY	90	TYR
54	BY	91	LEU
54	BY	94	ALA
54	BY	98	THR
54	BY	102	ILE
54	BY	112	ILE
54	BY	114	GLY
54	BY	117	ARG
54	BY	118	ILE
54	BY	119	PRO
54	BY	130	VAL
54	BY	132	LYS
54	BY	148	ILE
55	BZ	27	TYR
55	BZ	63	SER
55	BZ	83	LYS
55	BZ	86	ARG
55	BZ	89	VAL
56	Ba	6	ASP
56	Ba	7	VAL
56	Ba	14	ILE
56	Ba	15	ASN
56	Ba	16	LEU
56	Ba	25	PHE
56	Ba	29	ALA
56	Ba	44	MET
56	Ba	47	ASP
56	Ba	59	ILE
56	Ba	60	TRP
56	Ba	61	LYS
56	Ba	79	ARG
56	Ba	85	ALA
57	Bb	6	HIS

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Mol	Chain	Res	Type
57	Bb	7	PRO
57	Bb	12	LYS
57	Bb	20	HIS
57	Bb	22	SER
57	Bb	30	GLU
57	Bb	33	ARG
57	Bb	50	ILE
57	Bb	52	GLN
57	Bb	53	PRO
57	Bb	55	ILE
57	Bb	56	GLY
57	Bb	61	LYS
57	Bb	64	LYS
57	Bb	68	PRO
57	Bb	69	SER
57	Bb	79	VAL
57	Bb	84	THR
57	Bb	96	ILE
57	Bb	101	SER
57	Bb	109	LEU
57	Bb	110	ALA
57	Bb	121	ASN
58	Bc	18	ALA
58	Bc	38	ARG
58	Bc	40	SER
59	Bd	5	THR
59	Bd	8	PHE
59	Bd	28	HIS
59	Bd	29	VAL
59	Bd	35	SER
59	Bd	42	ALA
59	Bd	47	TYR
59	Bd	64	MET
59	Bd	65	ARG
59	Bd	67	LEU
59	Bd	68	LYS
59	Bd	71	SER
60	Be	27	ILE
60	Be	44	TRP
60	Be	45	ARG
61	Bf	5	PRO
61	Bf	13	LYS

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Mol	Chain	Res	Type
61	Bf	34	SER
61	Bf	47	GLN
61	Bf	53	GLN
61	Bf	66	LYS
61	Bf	93	LEU
62	Bg	16	VAL
62	Bg	18	TYR
62	Bg	34	HIS
62	Bg	35	ALA
62	Bg	37	TYR
62	Bg	48	LYS
62	Bg	49	ARG
62	Bg	53	GLY
62	Bg	54	ILE
62	Bg	55	TRP
62	Bg	71	VAL
62	Bg	81	SER
62	Bg	83	ILE
2	CA	11	PRO
2	CA	13	ASP
2	CA	14	ALA
2	CA	24	LEU
2	CA	36	TYR
2	CA	40	ALA
2	CA	41	ARG
2	CA	42	PRO
2	CA	43	ASP
2	CA	45	VAL
2	CA	49	ASN
2	CA	65	ALA
2	CA	70	PRO
2	CA	71	GLU
2	CA	89	PHE
2	CA	94	GLY
2	CA	97	PRO
2	CA	113	ARG
2	CA	117	GLU
2	CA	118	PRO
2	CA	126	PRO
2	CA	140	ASN
2	CA	143	VAL
2	CA	159	ALA

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Mol	Chain	Res	Type
2	CA	161	PRO
2	CA	163	ASN
2	CA	172	LEU
2	CA	193	GLN
2	CA	194	PRO
2	CA	202	TYR
2	CA	204	TYR
2	CA	220	THR
3	CB	37	PRO
3	CB	59	HIS
3	CB	62	PRO
3	CB	63	VAL
3	CB	66	PHE
3	CB	68	ILE
3	CB	73	LEU
3	CB	74	PRO
3	CB	84	LYS
3	CB	85	PRO
3	CB	125	ILE
3	CB	126	ARG
3	CB	133	LYS
3	CB	135	SER
3	CB	136	VAL
3	CB	139	ILE
3	CB	140	ARG
3	CB	143	TYR
3	CB	147	ASN
3	CB	151	PRO
3	CB	159	THR
3	CB	161	LYS
3	CB	164	SER
3	CB	165	VAL
3	CB	166	THR
3	CB	186	LYS
3	CB	189	GLN
3	CB	193	VAL
3	CB	196	VAL
3	CB	204	THR
3	CB	209	ASN
3	CB	220	ASN
3	CB	225	LEU
3	CB	234	PRO

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Mol	Chain	Res	Type
3	CB	235	LEU
3	CB	236	PRO
3	CB	237	VAL
3	CB	238	SER
3	CB	239	PRO
3	CB	243	TYR
4	CC	8	LYS
4	CC	9	ARG
4	CC	16	VAL
4	CC	17	PHE
4	CC	22	ASN
4	CC	28	GLU
4	CC	37	VAL
4	CC	43	PRO
4	CC	66	ILE
4	CC	69	LEU
4	CC	70	THR
4	CC	74	GLN
4	CC	76	ARG
4	CC	79	TYR
4	CC	80	ALA
4	CC	81	PRO
4	CC	94	ARG
4	CC	96	LEU
4	CC	100	ALA
4	CC	131	ALA
4	CC	136	VAL
4	CC	145	ALA
4	CC	152	PHE
4	CC	157	LEU
4	CC	162	GLN
4	CC	163	PRO
4	CC	167	PHE
4	CC	168	ILE
4	CC	174	HIS
4	CC	175	VAL
4	CC	193	ALA
5	CD	40	ILE
5	CD	42	LEU
5	CD	47	SER
5	CD	56	ALA
5	CD	57	SER

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Mol	Chain	Res	Type
5	CD	64	VAL
5	CD	65	ARG
5	CD	66	GLN
5	CD	88	PRO
5	CD	89	ILE
5	CD	92	ARG
5	CD	108	LEU
5	CD	129	PRO
5	CD	140	THR
5	CD	160	VAL
5	CD	162	VAL
5	CD	163	SER
5	CD	164	PRO
5	CD	166	ARG
5	CD	167	ARG
5	CD	182	ALA
5	CD	184	PHE
5	CD	187	ILE
5	CD	216	GLU
6	CE	39	LYS
6	CE	41	GLU
6	CE	55	ALA
6	CE	56	ALA
6	CE	64	GLU
6	CE	66	ASP
6	CE	67	PRO
6	CE	81	VAL
6	CE	82	ARG
6	CE	83	VAL
6	CE	99	LEU
6	CE	100	LYS
6	CE	106	GLU
6	CE	112	GLN
6	CE	121	SER
6	CE	122	VAL
6	CE	124	HIS
6	CE	130	THR
6	CE	131	GLN
6	CE	132	ARG
6	CE	140	ILE
6	CE	141	VAL
6	CE	143	ILE

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Mol	Chain	Res	Type
6	CE	152	SER
6	CE	153	GLU
6	CE	169	PRO
6	CE	174	ARG
7	CF	70	ILE
7	CF	80	MET
7	CF	83	THR
7	CF	86	ILE
7	CF	90	TYR
7	CF	94	ILE
7	CF	95	PRO
7	CF	98	ASN
7	CF	111	VAL
7	CF	112	SER
7	CF	113	PRO
7	CF	125	VAL
7	CF	130	PRO
7	CF	133	LYS
8	CG	46	THR
8	CG	47	PRO
8	CG	50	ILE
8	CG	58	HIS
8	CG	62	GLN
8	CG	65	VAL
8	CG	69	ASN
8	CG	71	ILE
8	CG	82	PRO
8	CG	84	ILE
8	CG	85	PRO
8	CG	86	GLU
8	CG	126	ALA
8	CG	132	VAL
8	CG	135	LEU
8	CG	136	PRO
8	CG	137	PRO
9	CH	4	VAL
9	CH	23	PHE
9	CH	26	THR
9	CH	40	ALA
9	CH	42	VAL
9	CH	43	THR
9	CH	50	ALA

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Mol	Chain	Res	Type
9	CH	65	GLN
9	CH	67	VAL
9	CH	79	VAL
9	CH	94	PRO
9	CH	96	PRO
9	CH	101	ALA
9	CH	122	PRO
10	CI	11	VAL
10	CI	13	LYS
10	CI	23	GLU
10	CI	34	VAL
10	CI	38	PRO
10	CI	45	PHE
10	CI	51	SER
10	CI	53	PRO
10	CI	61	ARG
10	CI	68	PRO
10	CI	73	PRO
10	CI	75	PRO
10	CI	80	MET
10	CI	85	ILE
10	CI	86	VAL
10	CI	121	ILE
10	CI	125	PRO
11	CJ	34	SER
11	CJ	35	PRO
11	CJ	36	ILE
11	CJ	38	LEU
11	CJ	42	GLU
11	CJ	57	LEU
11	CJ	61	SER
11	CJ	63	ILE
11	CJ	70	THR
11	CJ	85	ILE
11	CJ	90	VAL
11	CJ	97	VAL
11	CJ	105	LEU
11	CJ	118	ILE
11	CJ	126	PRO
12	CK	22	PRO
12	CK	26	LEU
12	CK	29	GLN

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Mol	Chain	Res	Type
12	CK	38	ILE
12	CK	39	ALA
12	CK	44	LYS
12	CK	60	ARG
12	CK	65	PRO
12	CK	69	ILE
13	CL	18	LEU
13	CL	27	LYS
13	CL	47	CYS
13	CL	65	GLU
13	CL	66	LEU
13	CL	71	GLN
13	CL	72	ILE
13	CL	74	GLN
13	CL	75	ASN
13	CL	79	TYR
13	CL	80	LYS
13	CL	81	ILE
13	CL	98	TYR
13	CL	99	HIS
13	CL	102	ALA
13	CL	117	LYS
13	CL	118	LYS
14	CM	2	PRO
14	CM	8	ASP
14	CM	9	VAL
14	CM	25	GLN
14	CM	28	LEU
14	CM	29	GLU
14	CM	36	ILE
14	CM	68	ARG
14	CM	103	LYS
14	CM	110	LYS
14	CM	111	ILE
14	CM	113	ILE
14	CM	119	LYS
14	CM	125	SER
14	CM	126	GLU
14	CM	127	ASN
14	CM	129	GLN
15	CN	14	GLN
15	CN	15	GLN

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Mol	Chain	Res	Type
15	CN	24	ILE
15	CN	31	VAL
15	CN	45	ALA
15	CN	50	LEU
15	CN	55	PRO
15	CN	59	PRO
15	CN	72	ASN
15	CN	76	SER
15	CN	84	MET
15	CN	93	LEU
15	CN	96	PRO
15	CN	108	ILE
15	CN	117	VAL
16	CO	5	SER
16	CO	24	GLN
16	CO	27	ILE
16	CO	28	ARG
16	CO	29	PRO
16	CO	30	SER
16	CO	31	SER
16	CO	38	LEU
16	CO	63	VAL
16	CO	76	SER
16	CO	77	PRO
16	CO	79	PHE
16	CO	85	ASP
16	CO	86	ILE
16	CO	95	PRO
16	CO	97	ARG
16	CO	99	PHE
16	CO	103	ILE
16	CO	106	THR
16	CO	118	ARG
16	CO	120	HIS
16	CO	126	LEU
17	CP	32	ARG
17	CP	33	LEU
17	CP	48	HIS
17	CP	49	ALA
17	CP	59	ILE
17	CP	64	PRO
17	CP	78	LYS

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Mol	Chain	Res	Type
17	CP	87	VAL
17	CP	90	ASP
17	CP	104	LEU
17	CP	105	ALA
17	CP	108	GLY
17	CP	119	GLY
17	CP	124	VAL
17	CP	127	VAL
17	CP	130	VAL
17	CP	135	LEU
17	CP	138	GLU
18	CQ	57	TYR
18	CQ	71	ILE
18	CQ	85	LYS
18	CQ	88	ILE
18	CQ	90	LYS
18	CQ	91	PRO
18	CQ	97	LYS
19	CR	10	ALA
19	CR	14	LYS
19	CR	15	VAL
19	CR	34	GLU
19	CR	39	THR
19	CR	44	VAL
20	CS	20	GLN
20	CS	24	CYS
20	CS	26	SER
20	CS	34	TYR
20	CS	40	ARG
20	CS	43	PHE
20	CS	48	ASN
20	CS	52	PHE
21	CT	2	ALA
21	CT	48	THR
21	CT	66	HIS
21	CT	100	TYR
21	CT	119	ALA
21	CT	189	GLU
21	CT	195	HIS
21	CT	198	ASN
21	CT	231	MET
21	CT	237	GLN

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Mol	Chain	Res	Type
21	CT	241	PHE
21	CT	269	TYR
21	CT	270	LEU
21	CT	281	TYR
21	CT	295	SER
32	DA	28	PHE
32	DA	31	THR
32	DA	36	VAL
32	DA	41	TYR
32	DA	43	PRO
32	DA	56	PRO
32	DA	57	ASN
32	DA	60	ARG
32	DA	111	ILE
32	DA	120	VAL
32	DA	121	PRO
32	DA	131	ALA
32	DA	134	PHE
32	DA	138	VAL
32	DA	142	ASP
32	DA	153	SER
32	DA	167	VAL
32	DA	169	VAL
32	DA	171	ASN
32	DA	173	GLU
32	DA	201	VAL
32	DA	205	VAL
32	DA	212	PRO
33	DB	5	ILE
33	DB	9	ARG
33	DB	13	GLY
33	DB	14	SER
33	DB	16	PHE
33	DB	24	GLN
33	DB	26	ALA
33	DB	38	HIS
33	DB	50	HIS
33	DB	61	VAL
33	DB	65	ASP
33	DB	79	ASN
33	DB	83	HIS
33	DB	84	THR

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Mol	Chain	Res	Type
33	DB	90	ALA
33	DB	92	LYS
33	DB	98	VAL
33	DB	107	VAL
33	DB	108	PRO
33	DB	110	GLY
33	DB	111	THR
33	DB	120	PRO
33	DB	137	ILE
33	DB	139	HIS
33	DB	141	PRO
33	DB	149	ARG
33	DB	152	SER
33	DB	157	VAL
33	DB	163	ARG
33	DB	166	ILE
33	DB	176	ASP
33	DB	178	PRO
33	DB	182	ALA
33	DB	188	LYS
33	DB	197	PRO
33	DB	199	THR
33	DB	208	ASP
33	DB	210	PRO
33	DB	211	HIS
33	DB	216	HIS
33	DB	217	GLN
33	DB	219	ILE
33	DB	222	ALA
33	DB	230	VAL
33	DB	233	GLN
33	DB	234	LYS
33	DB	235	ALA
33	DB	237	LEU
33	DB	241	ARG
33	DB	242	ARG
33	DB	243	THR
34	DC	21	ARG
34	DC	23	ALA
34	DC	40	PRO
34	DC	41	VAL
34	DC	42	ALA

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Mol	Chain	Res	Type
34	DC	43	LEU
34	DC	44	THR
34	DC	47	LEU
34	DC	51	ALA
34	DC	61	ASP
34	DC	63	PRO
34	DC	71	GLU
34	DC	81	THR
34	DC	82	PRO
34	DC	83	PRO
34	DC	86	VAL
34	DC	89	VAL
34	DC	93	VAL
34	DC	94	GLU
34	DC	97	ARG
34	DC	105	VAL
34	DC	106	TRP
34	DC	109	HIS
34	DC	110	LEU
34	DC	113	GLU
34	DC	117	ARG
34	DC	122	TRP
34	DC	123	TYR
34	DC	131	THR
34	DC	132	LYS
34	DC	137	TYR
34	DC	139	GLN
34	DC	143	GLY
34	DC	153	LYS
34	DC	157	VAL
34	DC	158	VAL
34	DC	160	VAL
34	DC	165	GLN
34	DC	166	ILE
34	DC	167	ARG
34	DC	170	PRO
34	DC	173	GLN
34	DC	174	LYS
34	DC	175	LYS
34	DC	176	ALA
34	DC	179	ALA
34	DC	181	ILE

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Mol	Chain	Res	Type
34	DC	187	SER
34	DC	188	ILE
34	DC	197	GLU
34	DC	199	PHE
34	DC	200	GLU
34	DC	209	PHE
34	DC	220	VAL
34	DC	221	THR
34	DC	238	LEU
34	DC	239	PRO
34	DC	244	ARG
34	DC	248	LYS
34	DC	251	CYS
34	DC	259	HIS
34	DC	261	MET
34	DC	264	VAL
34	DC	270	ARG
34	DC	272	TYR
34	DC	274	SER
34	DC	279	ASN
34	DC	284	ARG
34	DC	286	GLY
34	DC	296	THR
34	DC	301	THR
34	DC	303	LYS
34	DC	306	THR
34	DC	307	PRO
34	DC	317	ILE
34	DC	318	LYS
34	DC	320	ASP
34	DC	324	VAL
34	DC	327	CYS
34	DC	331	ASN
34	DC	333	LYS
34	DC	335	ILE
34	DC	340	LYS
34	DC	346	THR
34	DC	351	LEU
34	DC	359	ILE
35	DD	19	ALA
35	DD	21	PRO
35	DD	23	PRO

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Mol	Chain	Res	Type
35	DD	28	ALA
35	DD	54	GLU
35	DD	69	ARG
35	DD	77	VAL
35	DD	90	PHE
35	DD	100	PHE
35	DD	102	PRO
35	DD	107	ARG
35	DD	116	ASN
35	DD	131	VAL
35	DD	140	HIS
35	DD	149	PRO
35	DD	150	LEU
35	DD	154	THR
35	DD	159	ILE
35	DD	166	VAL
35	DD	182	LEU
35	DD	194	TYR
35	DD	239	ALA
35	DD	252	GLU
35	DD	254	ALA
35	DD	257	LYS
35	DD	258	LEU
35	DD	261	VAL
35	DD	266	THR
35	DD	267	VAL
36	DE	12	TYR
36	DE	13	SER
36	DE	17	GLN
36	DE	18	THR
36	DE	19	PRO
36	DE	21	ARG
36	DE	32	GLN
36	DE	42	ALA
36	DE	43	LYS
36	DE	46	THR
36	DE	47	PRO
36	DE	48	LYS
36	DE	49	TYR
36	DE	50	ARG
36	DE	68	THR
36	DE	69	ILE

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Mol	Chain	Res	Type
36	DE	78	ALA
36	DE	83	LEU
36	DE	84	PRO
36	DE	88	ILE
36	DE	101	THR
36	DE	122	VAL
36	DE	139	PRO
36	DE	148	ILE
36	DE	151	GLN
36	DE	159	VAL
36	DE	160	PHE
36	DE	171	LEU
36	DE	174	PRO
36	DE	178	ASN
36	DE	185	PHE
36	DE	191	ASP
36	DE	200	PHE
36	DE	211	LEU
36	DE	214	ASP
36	DE	231	ILE
36	DE	234	ASP
36	DE	235	SER
36	DE	238	ASP
36	DE	239	ILE
36	DE	242	SER
36	DE	246	ALA
36	DE	256	THR
36	DE	271	LYS
36	DE	293	LEU
37	DF	4	GLN
37	DF	6	ALA
37	DF	7	PRO
37	DF	10	TYR
37	DF	11	PRO
37	DF	13	GLU
37	DF	21	THR
37	DF	27	PRO
37	DF	28	GLN
37	DF	32	ALA
37	DF	33	SER
37	DF	34	LEU
37	DF	39	VAL

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Mol	Chain	Res	Type
37	DF	44	ALA
37	DF	47	PHE
37	DF	52	VAL
37	DF	53	VAL
37	DF	58	LEU
37	DF	68	PRO
37	DF	70	LYS
37	DF	71	VAL
37	DF	85	ILE
37	DF	90	LYS
37	DF	92	SER
37	DF	93	VAL
37	DF	99	GLU
37	DF	106	PHE
37	DF	109	GLU
37	DF	110	LYS
37	DF	116	LYS
37	DF	118	GLU
37	DF	122	PHE
37	DF	126	GLN
37	DF	137	ASP
37	DF	144	ALA
37	DF	146	ILE
37	DF	150	LYS
37	DF	151	LYS
37	DF	167	ASN
37	DF	172	HIS
37	DF	174	LEU
38	DG	32	ALA
38	DG	49	ALA
38	DG	50	ALA
38	DG	70	LYS
38	DG	81	HIS
38	DG	82	LYS
38	DG	84	VAL
38	DG	85	PHE
38	DG	86	VAL
38	DG	96	PRO
38	DG	97	PRO
38	DG	112	ASN
38	DG	136	TYR
38	DG	138	TYR

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Mol	Chain	Res	Type
38	DG	148	VAL
38	DG	149	TYR
38	DG	156	ILE
38	DG	160	ARG
38	DG	162	PRO
38	DG	177	GLY
38	DG	180	SER
38	DG	188	ILE
38	DG	193	PRO
38	DG	195	PHE
38	DG	202	LEU
38	DG	204	PRO
38	DG	206	LYS
38	DG	210	PRO
38	DG	217	PRO
38	DG	220	PHE
38	DG	223	PHE
38	DG	224	ILE
38	DG	228	SER
38	DG	229	PHE
38	DG	232	ARG
39	DH	96	LYS
39	DH	99	PRO
39	DH	109	LEU
39	DH	110	THR
39	DH	128	LYS
39	DH	131	ALA
39	DH	132	VAL
39	DH	151	VAL
39	DH	179	ILE
39	DH	181	LYS
39	DH	194	THR
39	DH	201	THR
39	DH	203	VAL
39	DH	210	ALA
39	DH	212	ALA
39	DH	214	LEU
39	DH	227	ASP
39	DH	233	TRP
39	DH	245	LYS
39	DH	249	ARG
40	DI	2	LYS

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Mol	Chain	Res	Type
40	DI	5	GLN
40	DI	22	SER
40	DI	30	PRO
40	DI	41	ILE
40	DI	43	VAL
40	DI	46	THR
40	DI	53	ILE
40	DI	86	TYR
40	DI	104	VAL
40	DI	110	LYS
40	DI	122	LYS
40	DI	127	PRO
40	DI	138	THR
40	DI	140	VAL
40	DI	141	LYS
40	DI	142	ASP
40	DI	167	VAL
40	DI	169	ASN
40	DI	170	LYS
40	DI	171	ASP
40	DI	172	ILE
40	DI	186	PHE
40	DI	189	GLU
41	DJ	5	PRO
41	DJ	11	TYR
41	DJ	13	LYS
41	DJ	14	ASN
41	DJ	16	PRO
41	DJ	17	TYR
41	DJ	25	ALA
41	DJ	29	SER
41	DJ	34	TYR
41	DJ	39	LYS
41	DJ	43	VAL
41	DJ	46	PHE
41	DJ	48	LEU
41	DJ	56	GLU
41	DJ	57	LEU
41	DJ	70	ILE
41	DJ	92	HIS
41	DJ	115	MET
41	DJ	136	PHE

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Mol	Chain	Res	Type
41	DJ	145	LYS
41	DJ	160	PRO
41	DJ	162	GLN
41	DJ	169	LYS
41	DJ	175	ASN
41	DJ	178	ARG
41	DJ	190	VAL
41	DJ	201	SER
41	DJ	208	ASN
42	DK	8	PRO
42	DK	18	VAL
42	DK	23	VAL
42	DK	32	ARG
42	DK	34	SER
42	DK	45	PRO
42	DK	49	LYS
42	DK	50	ALA
42	DK	54	VAL
42	DK	55	ARG
42	DK	56	THR
42	DK	62	ASN
42	DK	65	ILE
42	DK	66	ALA
42	DK	69	VAL
42	DK	76	ALA
42	DK	77	GLU
42	DK	82	ARG
42	DK	85	LYS
42	DK	86	VAL
42	DK	88	GLU
42	DK	102	PHE
42	DK	108	GLU
42	DK	110	ILE
42	DK	115	LYS
42	DK	118	PRO
42	DK	120	ILE
42	DK	122	ILE
42	DK	129	VAL
42	DK	132	ASN
42	DK	133	ARG
42	DK	134	PRO
42	DK	143	ARG

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Mol	Chain	Res	Type
42	DK	148	VAL
42	DK	154	THR
72	DL	10	VAL
72	DL	17	ALA
72	DL	18	VAL
72	DL	25	SER
72	DL	31	LYS
72	DL	35	LEU
72	DL	38	SER
72	DL	39	PRO
72	DL	49	ALA
72	DL	56	ILE
72	DL	58	VAL
72	DL	75	PRO
72	DL	77	ALA
72	DL	78	SER
72	DL	88	PRO
72	DL	90	ARG
72	DL	104	ILE
72	DL	106	LEU
72	DL	112	ILE
72	DL	113	ALA
72	DL	124	THR
72	DL	141	CYS
73	DM	28	VAL
73	DM	30	VAL
73	DM	32	ASN
73	DM	33	VAL
73	DM	34	SER
73	DM	46	ARG
73	DM	60	ARG
73	DM	62	ALA
73	DM	70	LEU
73	DM	76	LEU
73	DM	77	LEU
73	DM	86	PHE
73	DM	91	GLU
73	DM	92	PRO
73	DM	100	ILE
73	DM	102	SER
73	DM	187	VAL
73	DM	188	VAL

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Mol	Chain	Res	Type
73	DM	189	GLN
73	DM	191	TYR
73	DM	192	ASP
73	DM	198	PRO
43	DN	10	SER
43	DN	15	VAL
43	DN	19	ARG
43	DN	20	VAL
43	DN	23	ILE
43	DN	24	LYS
43	DN	25	LYS
43	DN	27	GLN
43	DN	29	ALA
43	DN	32	LEU
43	DN	43	LYS
43	DN	44	VAL
43	DN	54	PRO
43	DN	55	ARG
43	DN	60	LEU
43	DN	62	GLN
43	DN	63	VAL
43	DN	64	VAL
43	DN	66	THR
43	DN	67	PRO
43	DN	70	PHE
43	DN	74	ARG
43	DN	81	VAL
43	DN	82	SER
43	DN	90	VAL
43	DN	103	ILE
43	DN	111	ALA
43	DN	126	GLN
43	DN	127	LYS
44	DO	17	ASP
44	DO	30	TYR
44	DO	35	VAL
44	DO	39	ALA
44	DO	42	PRO
44	DO	46	ASP
44	DO	53	TYR
44	DO	54	LYS
44	DO	55	ALA

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Mol	Chain	Res	Type
44	DO	60	VAL
44	DO	75	VAL
44	DO	76	PRO
44	DO	79	ALA
44	DO	83	LYS
44	DO	84	PRO
44	DO	96	ARG
44	DO	97	SER
44	DO	98	LEU
44	DO	121	VAL
44	DO	127	TYR
44	DO	136	ASP
44	DO	156	HIS
44	DO	160	GLU
44	DO	161	ALA
45	DP	5	PRO
45	DP	12	LYS
45	DP	19	LEU
45	DP	37	ARG
45	DP	61	ALA
45	DP	66	LYS
45	DP	69	GLY
45	DP	70	PRO
45	DP	75	ALA
45	DP	76	PRO
45	DP	77	SER
45	DP	100	GLU
45	DP	108	ILE
45	DP	109	PRO
45	DP	110	PRO
45	DP	112	TYR
45	DP	115	LYS
45	DP	116	LYS
45	DP	120	VAL
45	DP	121	PRO
45	DP	125	ARG
45	DP	126	VAL
45	DP	128	ARG
45	DP	131	PRO
45	DP	134	LYS
45	DP	138	LEU
45	DP	147	TRP

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Mol	Chain	Res	Type
45	DP	188	SER
46	DQ	9	THR
46	DQ	10	ASN
46	DQ	12	ALA
46	DQ	20	SER
46	DQ	30	ARG
46	DQ	31	GLU
46	DQ	33	ALA
46	DQ	48	LEU
46	DQ	52	LEU
46	DQ	56	ARG
46	DQ	69	ARG
46	DQ	71	ALA
46	DQ	75	GLU
46	DQ	83	TRP
46	DQ	84	PRO
46	DQ	106	GLY
46	DQ	110	THR
46	DQ	114	VAL
46	DQ	118	GLN
46	DQ	122	ALA
46	DQ	123	PRO
46	DQ	142	SER
47	DR	18	ALA
47	DR	19	PRO
47	DR	22	ASP
47	DR	39	ARG
47	DR	42	ALA
47	DR	43	PRO
47	DR	60	PRO
47	DR	61	PRO
47	DR	76	ALA
47	DR	93	ILE
47	DR	97	PRO
47	DR	103	ALA
47	DR	104	LEU
47	DR	108	ALA
47	DR	110	ALA
47	DR	111	ARG
47	DR	112	ALA
47	DR	117	ALA
47	DR	123	THR

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Mol	Chain	Res	Type
47	DR	143	PRO
47	DR	145	ASN
47	DR	146	SER
47	DR	153	PHE
48	DS	3	ASN
48	DS	12	ALA
48	DS	19	LYS
48	DS	130	ASN
48	DS	133	LYS
48	DS	134	HIS
48	DS	143	ILE
49	DT	16	GLN
49	DT	31	LEU
49	DT	32	LYS
49	DT	34	TYR
49	DT	35	LYS
49	DT	49	GLN
49	DT	54	HIS
49	DT	64	VAL
49	DT	66	ASN
49	DT	67	VAL
49	DT	70	SER
49	DT	75	ILE
49	DT	76	ILE
49	DT	79	MET
49	DT	81	GLY
49	DT	85	LEU
49	DT	98	HIS
49	DT	99	SER
49	DT	110	LYS
50	DU	19	VAL
50	DU	40	LYS
50	DU	46	LEU
50	DU	47	ASN
50	DU	54	LEU
50	DU	66	LYS
50	DU	80	ARG
50	DU	81	GLN
50	DU	82	ALA
50	DU	94	TYR
50	DU	95	PHE
50	DU	97	ASP

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Mol	Chain	Res	Type
50	DU	98	ASN
50	DU	112	SER
50	DU	131	SER
50	DU	134	GLY
50	DU	135	VAL
51	DV	4	GLU
51	DV	5	ILE
51	DV	6	ASP
51	DV	8	PHE
51	DV	22	VAL
51	DV	23	ARG
51	DV	25	ASP
51	DV	28	ILE
51	DV	29	PHE
51	DV	33	ASN
51	DV	34	SER
51	DV	35	LYS
51	DV	52	THR
51	DV	57	LYS
52	DW	51	VAL
52	DW	52	PRO
52	DW	53	HIS
52	DW	58	ASP
52	DW	60	TYR
52	DW	61	LYS
52	DW	62	VAL
52	DW	64	GLU
52	DW	66	PRO
52	DW	67	ILE
52	DW	70	GLU
52	DW	84	PHE
52	DW	102	LEU
52	DW	104	GLU
52	DW	106	ASP
52	DW	129	ASP
53	DX	15	ALA
53	DX	19	TYR
53	DX	20	PHE
53	DX	58	VAL
53	DX	59	VAL
53	DX	101	PRO
54	DY	3	SER

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Mol	Chain	Res	Type
54	DY	9	ARG
54	DY	10	LYS
54	DY	12	ARG
54	DY	21	ARG
54	DY	22	ILE
54	DY	27	LYS
54	DY	30	GLY
54	DY	36	GLY
54	DY	40	HIS
54	DY	43	ILE
54	DY	44	ASN
54	DY	50	PRO
54	DY	56	VAL
54	DY	60	TYR
54	DY	61	PHE
54	DY	62	HIS
54	DY	69	TRP
54	DY	74	ASN
54	DY	78	LEU
54	DY	79	TRP
54	DY	85	ASP
54	DY	88	ASP
54	DY	90	TYR
54	DY	91	LEU
54	DY	94	ALA
54	DY	98	THR
54	DY	102	ILE
54	DY	112	ILE
54	DY	114	GLY
54	DY	117	ARG
54	DY	118	ILE
54	DY	119	PRO
54	DY	127	ALA
54	DY	130	VAL
54	DY	132	LYS
54	DY	148	ILE
55	DZ	25	LEU
55	DZ	27	TYR
55	DZ	50	VAL
55	DZ	63	SER
55	DZ	83	LYS
55	DZ	86	ARG

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Mol	Chain	Res	Type
55	DZ	89	VAL
56	Da	6	ASP
56	Da	7	VAL
56	Da	14	ILE
56	Da	15	ASN
56	Da	16	LEU
56	Da	25	PHE
56	Da	29	ALA
56	Da	44	MET
56	Da	47	ASP
56	Da	59	ILE
56	Da	60	TRP
56	Da	79	ARG
56	Da	85	ALA
57	Db	6	HIS
57	Db	7	PRO
57	Db	20	HIS
57	Db	22	SER
57	Db	24	ARG
57	Db	30	GLU
57	Db	33	ARG
57	Db	50	ILE
57	Db	52	GLN
57	Db	53	PRO
57	Db	56	GLY
57	Db	61	LYS
57	Db	64	LYS
57	Db	68	PRO
57	Db	69	SER
57	Db	79	VAL
57	Db	96	ILE
57	Db	101	SER
57	Db	109	LEU
57	Db	110	ALA
57	Db	121	ASN
58	Dc	11	THR
58	Dc	38	ARG
58	Dc	40	SER
59	Dd	5	THR
59	Dd	38	GLY
59	Dd	42	ALA
59	Dd	47	TYR

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Mol	Chain	Res	Type
59	Dd	64	MET
59	Dd	65	ARG
59	Dd	67	LEU
59	Dd	68	LYS
59	Dd	71	SER
60	De	27	ILE
60	De	33	ASN
60	De	35	ILE
60	De	45	ARG
61	Df	5	PRO
61	Df	9	LYS
61	Df	13	LYS
61	Df	34	SER
61	Df	53	GLN
61	Df	66	LYS
61	Df	88	CYS
61	Df	93	LEU
62	Dg	16	VAL
62	Dg	18	TYR
62	Dg	34	HIS
62	Dg	35	ALA
62	Dg	37	TYR
62	Dg	48	LYS
62	Dg	49	ARG
62	Dg	53	GLY
62	Dg	55	TRP
62	Dg	66	GLY
62	Dg	81	SER
62	Dg	82	THR
62	Dg	83	ILE
2	AA	26	ALA
2	AA	85	ALA
2	AA	89	PHE
2	AA	116	LYS
2	AA	128	SER
2	AA	131	GLN
2	AA	148	ASP
2	AA	164	ASN
2	AA	171	GLY
2	AA	177	LEU
2	AA	189	VAL
2	AA	192	THR

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Mol	Chain	Res	Type
2	AA	198	MET
2	AA	207	PRO
2	AA	211	GLU
2	AA	212	GLN
3	AB	40	LYS
3	AB	63	VAL
3	AB	69	ILE
3	AB	75	GLY
3	AB	124	ALA
3	AB	127	ALA
3	AB	150	GLN
3	AB	154	LEU
3	AB	161	LYS
3	AB	167	VAL
3	AB	185	LYS
3	AB	186	LYS
3	AB	213	ALA
3	AB	214	ALA
3	AB	224	PHE
4	AC	17	PHE
4	AC	18	TYR
4	AC	55	THR
4	AC	61	GLU
4	AC	65	ARG
4	AC	74	GLN
4	AC	77	PHE
4	AC	95	GLY
4	AC	99	VAL
4	AC	130	GLY
4	AC	142	LEU
4	AC	143	ARG
4	AC	153	ALA
4	AC	159	HIS
4	AC	193	ALA
5	AD	43	PHE
5	AD	56	ALA
5	AD	60	ASP
5	AD	64	VAL
5	AD	89	ILE
5	AD	108	LEU
5	AD	113	ILE
5	AD	122	ASN

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Mol	Chain	Res	Type
5	AD	140	THR
5	AD	144	GLU
5	AD	153	GLY
5	AD	166	ARG
5	AD	167	ARG
5	AD	181	GLU
5	AD	183	ALA
5	AD	197	GLU
5	AD	211	ILE
5	AD	215	ASP
6	AE	38	ASN
6	AE	63	ASP
6	AE	66	ASP
6	AE	88	GLU
6	AE	113	VAL
6	AE	133	HIS
6	AE	137	GLY
6	AE	139	GLN
6	AE	170	GLY
7	AF	96	LYS
7	AF	109	VAL
7	AF	121	ASP
7	AF	127	GLN
8	AG	52	VAL
8	AG	54	LEU
8	AG	58	HIS
8	AG	128	TYR
9	AH	6	GLN
9	AH	19	ILE
9	AH	25	ASP
9	AH	28	VAL
9	AH	45	GLY
9	AH	97	GLY
9	AH	124	ASP
10	AI	22	LEU
10	AI	28	MET
10	AI	32	ASP
10	AI	34	VAL
10	AI	35	LYS
10	AI	45	PHE
10	AI	65	LEU
10	AI	113	GLY

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Mol	Chain	Res	Type
11	AJ	43	ILE
11	AJ	62	ASN
11	AJ	92	TYR
11	AJ	98	ASP
11	AJ	104	GLU
11	AJ	107	LYS
11	AJ	129	PHE
12	AK	33	ARG
12	AK	47	ARG
12	AK	56	HIS
12	AK	63	LYS
12	AK	68	GLY
13	AL	47	CYS
13	AL	84	TRP
13	AL	101	LEU
14	AM	28	LEU
14	AM	29	GLU
14	AM	51	GLU
14	AM	54	PHE
14	AM	58	ALA
14	AM	102	ARG
14	AM	103	LYS
14	AM	121	GLY
14	AM	122	ARG
15	AN	33	GLN
15	AN	37	VAL
15	AN	84	MET
15	AN	116	VAL
16	AO	22	LYS
16	AO	56	HIS
16	AO	62	VAL
16	AO	68	ARG
16	AO	72	CYS
16	AO	113	HIS
17	AP	32	ARG
17	AP	33	LEU
17	AP	41	SER
17	AP	42	PRO
17	AP	100	ASP
17	AP	114	LYS
17	AP	122	PHE
17	AP	129	GLY

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Mol	Chain	Res	Type
17	AP	139	LYS
18	AQ	41	ILE
18	AQ	66	VAL
18	AQ	86	GLU
19	AR	28	VAL
19	AR	29	ARG
19	AR	41	VAL
19	AR	45	LYS
20	AS	16	LYS
20	AS	39	CYS
20	AS	40	ARG
20	AS	44	ARG
20	AS	47	ALA
20	AS	49	ASP
20	AS	52	PHE
21	AT	21	THR
21	AT	28	GLY
21	AT	49	GLY
21	AT	59	ARG
21	AT	95	ALA
21	AT	108	SER
21	AT	112	SER
21	AT	140	CYS
21	AT	149	ASP
21	AT	176	LYS
21	AT	186	PHE
21	AT	188	ILE
21	AT	196	ASN
21	AT	202	LEU
21	AT	203	THR
21	AT	231	MET
21	AT	237	GLN
21	AT	244	ALA
21	AT	270	LEU
21	AT	283	LYS
21	AT	298	GLY
32	BA	25	LYS
32	BA	26	ARG
32	BA	41	TYR
32	BA	44	GLN
32	BA	47	LYS
32	BA	67	ILE

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Mol	Chain	Res	Type
32	BA	77	ALA
32	BA	96	ASN
32	BA	117	ILE
32	BA	123	LEU
32	BA	169	VAL
32	BA	193	LEU
32	BA	194	LEU
32	BA	196	LYS
32	BA	197	ASN
32	BA	204	LEU
32	BA	206	VAL
33	BB	9	ARG
33	BB	19	HIS
33	BB	54	ARG
33	BB	92	LYS
33	BB	103	PRO
33	BB	118	GLU
33	BB	121	GLY
33	BB	122	ASP
33	BB	134	VAL
33	BB	151	PRO
33	BB	163	ARG
33	BB	165	VAL
33	BB	169	ILE
33	BB	171	GLY
33	BB	183	GLY
33	BB	212	GLY
33	BB	216	HIS
33	BB	227	ARG
33	BB	231	SER
34	BC	2	SER
34	BC	7	GLU
34	BC	30	LYS
34	BC	37	ARG
34	BC	45	SER
34	BC	51	ALA
34	BC	69	LYS
34	BC	82	PRO
34	BC	92	TYR
34	BC	101	SER
34	BC	107	ALA
34	BC	134	SER

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Mol	Chain	Res	Type
34	BC	148	LEU
34	BC	157	VAL
34	BC	179	ALA
34	BC	181	ILE
34	BC	194	TRP
34	BC	198	HIS
34	BC	203	VAL
34	BC	208	VAL
34	BC	224	HIS
34	BC	241	LYS
34	BC	251	CYS
34	BC	260	VAL
34	BC	286	GLY
34	BC	294	GLY
34	BC	305	ILE
34	BC	340	LYS
34	BC	343	TYR
34	BC	348	ARG
34	BC	361	THR
35	BD	16	THR
35	BD	33	ASP
35	BD	55	LYS
35	BD	66	GLY
35	BD	68	GLY
35	BD	83	GLY
35	BD	135	VAL
35	BD	154	THR
35	BD	181	VAL
35	BD	189	ALA
35	BD	190	GLY
35	BD	193	LYS
35	BD	204	GLY
35	BD	238	LEU
36	BE	10	SER
36	BE	20	PHE
36	BE	29	ASP
36	BE	40	HIS
36	BE	42	ALA
36	BE	43	LYS
36	BE	45	ASN
36	BE	95	TRP
36	BE	111	GLN

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Mol	Chain	Res	Type
36	BE	120	LYS
36	BE	122	VAL
36	BE	131	LEU
36	BE	140	ARG
36	BE	158	ARG
36	BE	195	LEU
36	BE	209	GLU
36	BE	216	GLU
36	BE	223	PHE
36	BE	227	LEU
36	BE	235	SER
36	BE	240	TYR
36	BE	242	SER
36	BE	249	ALA
36	BE	268	GLU
36	BE	282	ARG
37	BF	18	LEU
37	BF	21	THR
37	BF	58	LEU
37	BF	147	ALA
38	BG	34	LYS
38	BG	70	LYS
38	BG	154	GLY
38	BG	219	LYS
39	BH	86	THR
39	BH	94	PHE
39	BH	100	GLU
39	BH	129	PRO
39	BH	157	VAL
39	BH	179	ILE
39	BH	208	GLU
39	BH	228	GLU
39	BH	229	VAL
39	BH	247	ASP
39	BH	248	LYS
40	BI	48	VAL
40	BI	52	LEU
40	BI	62	ARG
40	BI	64	HIS
40	BI	98	PRO
40	BI	129	ARG
40	BI	162	GLN

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Mol	Chain	Res	Type
40	BI	171	ASP
41	BJ	12	GLN
41	BJ	21	ARG
41	BJ	28	ASP
41	BJ	35	ASP
41	BJ	36	LEU
41	BJ	78	THR
41	BJ	84	ALA
41	BJ	86	HIS
41	BJ	93	PRO
41	BJ	95	HIS
41	BJ	143	SER
41	BJ	175	ASN
41	BJ	177	ASP
41	BJ	185	ARG
41	BJ	189	GLU
41	BJ	196	PHE
41	BJ	207	GLU
42	BK	11	ASP
42	BK	31	THR
42	BK	77	GLU
42	BK	82	ARG
42	BK	83	GLY
42	BK	92	ARG
42	BK	94	ARG
42	BK	112	LEU
42	BK	121	GLY
42	BK	123	PHE
42	BK	127	PHE
42	BK	141	ARG
42	BK	170	ASP
43	BN	32	LEU
43	BN	44	VAL
43	BN	56	GLN
43	BN	65	LEU
43	BN	73	PRO
43	BN	74	ARG
43	BN	77	ARG
43	BN	96	ALA
43	BN	104	ALA
43	BN	107	GLU
43	BN	118	PHE

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Mol	Chain	Res	Type
43	BN	125	LYS
44	BO	16	SER
44	BO	21	PHE
44	BO	33	LYS
44	BO	52	GLY
44	BO	56	LYS
44	BO	78	GLY
44	BO	81	TYR
44	BO	110	ALA
44	BO	120	TRP
44	BO	149	ASN
44	BO	160	GLU
44	BO	164	LEU
44	BO	166	ALA
44	BO	176	LYS
45	BP	6	VAL
45	BP	19	LEU
45	BP	32	LYS
45	BP	58	LEU
45	BP	62	THR
45	BP	69	GLY
45	BP	93	ALA
45	BP	96	LYS
45	BP	116	LYS
45	BP	129	LEU
45	BP	138	LEU
45	BP	163	SER
46	BQ	4	TYR
46	BQ	7	THR
46	BQ	13	LYS
46	BQ	26	PHE
46	BQ	48	LEU
46	BQ	70	THR
46	BQ	78	VAL
46	BQ	105	LYS
46	BQ	109	ALA
46	BQ	111	LYS
46	BQ	112	LEU
46	BQ	126	ARG
46	BQ	133	HIS
46	BQ	154	GLU
47	BR	20	LYS

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Mol	Chain	Res	Type
47	BR	23	ASN
47	BR	24	VAL
47	BR	44	PHE
47	BR	67	ILE
47	BR	87	VAL
47	BR	98	LYS
47	BR	124	LEU
47	BR	127	LEU
47	BR	131	ALA
47	BR	146	SER
47	BR	154	GLY
48	BS	3	ASN
48	BS	55	VAL
48	BS	67	ALA
48	BS	128	LYS
48	BS	140	GLU
49	BT	19	PHE
49	BT	36	VAL
49	BT	48	ILE
49	BT	55	LYS
49	BT	59	GLY
49	BT	72	VAL
49	BT	77	ASN
49	BT	99	SER
50	BU	28	ASN
50	BU	44	SER
50	BU	54	LEU
50	BU	79	VAL
50	BU	80	ARG
50	BU	82	ALA
50	BU	88	ARG
50	BU	98	ASN
50	BU	109	MET
51	BV	2	LYS
51	BV	42	GLN
51	BV	44	LYS
51	BV	53	VAL
52	BW	55	ASN
52	BW	60	TYR
52	BW	86	VAL
52	BW	89	LYS
52	BW	92	LYS

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Mol	Chain	Res	Type
52	BW	95	ILE
52	BW	104	GLU
52	BW	138	ARG
53	BX	15	ALA
53	BX	25	SER
53	BX	50	ILE
53	BX	71	SER
53	BX	83	ASP
53	BX	92	GLY
53	BX	113	LYS
53	BX	116	LYS
54	BY	14	HIS
54	BY	37	GLY
54	BY	53	PHE
54	BY	62	HIS
54	BY	81	LEU
54	BY	127	ALA
54	BY	131	SER
55	BZ	25	LEU
55	BZ	42	ILE
55	BZ	50	VAL
55	BZ	53	LYS
56	Ba	17	HIS
56	Ba	50	ARG
57	Bb	15	LYS
57	Bb	24	ARG
57	Bb	41	VAL
57	Bb	43	ARG
57	Bb	45	ARG
57	Bb	58	GLY
57	Bb	62	LYS
57	Bb	63	THR
57	Bb	89	THR
57	Bb	107	VAL
57	Bb	123	LYS
58	Bc	11	THR
58	Bc	27	GLU
58	Bc	37	SER
59	Bd	7	SER
59	Bd	9	GLY
59	Bd	12	HIS
59	Bd	20	ASN

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Mol	Chain	Res	Type
59	Bd	26	SER
59	Bd	38	GLY
59	Bd	50	GLY
59	Bd	66	TYR
60	Be	26	TRP
60	Be	31	THR
60	Be	33	ASN
60	Be	34	THR
60	Be	35	ILE
61	Bf	6	LYS
61	Bf	9	LYS
61	Bf	11	TYR
61	Bf	21	THR
61	Bf	41	ARG
61	Bf	46	LYS
61	Bf	57	VAL
61	Bf	58	PHE
61	Bf	81	ALA
61	Bf	88	CYS
62	Bg	15	GLY
62	Bg	66	GLY
62	Bg	67	GLY
62	Bg	82	THR
2	CA	12	GLU
2	CA	26	ALA
2	CA	88	LYS
2	CA	116	LYS
2	CA	121	VAL
2	CA	124	THR
2	CA	128	SER
2	CA	131	GLN
2	CA	148	ASP
2	CA	164	ASN
2	CA	171	GLY
2	CA	177	LEU
2	CA	187	ALA
2	CA	189	VAL
2	CA	207	PRO
2	CA	211	GLU
2	CA	212	GLN
3	CB	38	VAL
3	CB	75	GLY

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Mol	Chain	Res	Type
3	CB	98	PHE
3	CB	124	ALA
3	CB	127	ALA
3	CB	134	LEU
3	CB	146	THR
3	CB	154	LEU
3	CB	167	VAL
3	CB	169	LEU
3	CB	185	LYS
3	CB	202	GLY
3	CB	224	PHE
3	CB	228	ASN
3	CB	233	GLN
3	CB	240	LEU
4	CC	18	TYR
4	CC	42	THR
4	CC	55	THR
4	CC	65	ARG
4	CC	77	PHE
4	CC	95	GLY
4	CC	97	SER
4	CC	98	ALA
4	CC	99	VAL
4	CC	115	ILE
4	CC	130	GLY
4	CC	132	LYS
4	CC	142	LEU
4	CC	153	ALA
5	CD	48	PHE
5	CD	58	LEU
5	CD	93	LEU
5	CD	94	THR
5	CD	113	ILE
5	CD	122	ASN
5	CD	135	ASP
5	CD	183	ALA
5	CD	195	ALA
5	CD	197	GLU
6	CE	63	ASP
6	CE	85	VAL
6	CE	88	GLU
6	CE	113	VAL

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Mol	Chain	Res	Type
6	CE	133	HIS
6	CE	137	GLY
6	CE	139	GLN
6	CE	146	PHE
7	CF	96	LYS
7	CF	109	VAL
7	CF	119	VAL
7	CF	121	ASP
7	CF	127	GLN
7	CF	140	VAL
8	CG	54	LEU
8	CG	128	TYR
8	CG	138	ASN
9	CH	3	ASN
9	CH	6	GLN
9	CH	19	ILE
9	CH	25	ASP
9	CH	28	VAL
9	CH	45	GLY
9	CH	64	ALA
9	CH	73	GLU
9	CH	97	GLY
9	CH	124	ASP
9	CH	128	LYS
10	CI	12	PHE
10	CI	18	ARG
10	CI	22	LEU
10	CI	28	MET
10	CI	35	LYS
10	CI	65	LEU
10	CI	70	ASN
10	CI	81	ARG
10	CI	113	GLY
10	CI	116	LEU
11	CJ	43	ILE
11	CJ	62	ASN
11	CJ	74	HIS
11	CJ	82	ARG
11	CJ	92	TYR
11	CJ	104	GLU
11	CJ	106	LYS
11	CJ	110	THR

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Mol	Chain	Res	Type
11	CJ	125	GLU
11	CJ	129	PHE
11	CJ	136	SER
12	CK	56	HIS
12	CK	63	LYS
12	CK	68	GLY
13	CL	44	ASN
13	CL	46	VAL
13	CL	84	TRP
14	CM	4	VAL
14	CM	51	GLU
14	CM	54	PHE
14	CM	58	ALA
14	CM	102	ARG
14	CM	117	SER
15	CN	13	GLU
15	CN	33	GLN
15	CN	37	VAL
15	CN	97	VAL
15	CN	101	LYS
15	CN	113	ASP
15	CN	116	VAL
16	CO	22	LYS
16	CO	56	HIS
16	CO	62	VAL
16	CO	68	ARG
16	CO	72	CYS
16	CO	81	VAL
16	CO	94	LEU
16	CO	100	GLY
16	CO	113	HIS
17	CP	37	ALA
17	CP	42	PRO
17	CP	70	LYS
17	CP	81	LYS
17	CP	100	ASP
17	CP	114	LYS
17	CP	128	SER
17	CP	129	GLY
17	CP	139	LYS
18	CQ	42	LEU
18	CQ	66	VAL

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Mol	Chain	Res	Type
18	CQ	75	LEU
19	CR	28	VAL
19	CR	29	ARG
19	CR	41	VAL
19	CR	43	ASN
19	CR	45	LYS
20	CS	27	HIS
20	CS	39	CYS
20	CS	44	ARG
20	CS	47	ALA
20	CS	49	ASP
21	CT	21	THR
21	CT	28	GLY
21	CT	49	GLY
21	CT	59	ARG
21	CT	94	VAL
21	CT	95	ALA
21	CT	108	SER
21	CT	112	SER
21	CT	136	ILE
21	CT	140	CYS
21	CT	149	ASP
21	CT	188	ILE
21	CT	196	ASN
21	CT	202	LEU
21	CT	203	THR
21	CT	244	ALA
21	CT	247	PRO
21	CT	268	GLN
21	CT	283	LYS
21	CT	298	GLY
21	CT	318	ALA
32	DA	15	GLU
32	DA	22	GLU
32	DA	73	ASP
32	DA	82	VAL
32	DA	93	LEU
32	DA	104	SER
32	DA	109	ALA
32	DA	130	LYS
32	DA	141	ASN
32	DA	160	LYS

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Mol	Chain	Res	Type
32	DA	170	GLY
32	DA	172	VAL
32	DA	193	LEU
32	DA	200	ASN
33	DB	19	HIS
33	DB	118	GLU
33	DB	121	GLY
33	DB	122	ASP
33	DB	128	ARG
33	DB	136	ILE
33	DB	148	VAL
33	DB	165	VAL
33	DB	169	ILE
33	DB	171	GLY
33	DB	173	GLY
33	DB	183	GLY
33	DB	207	VAL
33	DB	212	GLY
33	DB	214	GLY
33	DB	220	GLY
33	DB	224	THR
33	DB	231	SER
34	DC	3	HIS
34	DC	7	GLU
34	DC	12	GLY
34	DC	30	LYS
34	DC	45	SER
34	DC	49	TYR
34	DC	57	VAL
34	DC	101	SER
34	DC	104	THR
34	DC	107	ALA
34	DC	134	SER
34	DC	146	ARG
34	DC	148	LEU
34	DC	194	TRP
34	DC	198	HIS
34	DC	203	VAL
34	DC	208	VAL
34	DC	224	HIS
34	DC	257	PRO
34	DC	273	HIS

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Mol	Chain	Res	Type
34	DC	275	ARG
34	DC	278	ILE
34	DC	290	ASP
34	DC	294	GLY
34	DC	305	ILE
34	DC	319	ASN
34	DC	336	VAL
34	DC	343	TYR
34	DC	361	THR
35	DD	8	VAL
35	DD	24	ALA
35	DD	33	ASP
35	DD	66	GLY
35	DD	68	GLY
35	DD	71	VAL
35	DD	83	GLY
35	DD	135	VAL
35	DD	160	GLN
35	DD	181	VAL
35	DD	189	ALA
35	DD	190	GLY
35	DD	193	LYS
35	DD	204	GLY
35	DD	212	ASP
35	DD	232	SER
35	DD	265	GLU
35	DD	274	TYR
36	DE	10	SER
36	DE	20	PHE
36	DE	29	ASP
36	DE	45	ASN
36	DE	79	TYR
36	DE	95	TRP
36	DE	100	ALA
36	DE	111	GLN
36	DE	120	LYS
36	DE	131	LEU
36	DE	132	THR
36	DE	140	ARG
36	DE	177	GLU
36	DE	195	LEU
36	DE	209	GLU

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Mol	Chain	Res	Type
36	DE	216	GLU
36	DE	227	LEU
36	DE	240	TYR
36	DE	249	ALA
36	DE	268	GLU
36	DE	282	ARG
37	DF	16	ALA
37	DF	18	LEU
37	DF	26	ARG
37	DF	86	ALA
37	DF	98	VAL
37	DF	121	LEU
37	DF	123	PRO
37	DF	127	ASN
37	DF	147	ALA
38	DG	30	ARG
38	DG	34	LYS
38	DG	69	ALA
38	DG	150	LYS
38	DG	154	GLY
38	DG	222	HIS
38	DG	233	GLU
38	DG	234	GLU
39	DH	94	PHE
39	DH	98	ARG
39	DH	100	GLU
39	DH	129	PRO
39	DH	157	VAL
39	DH	196	ALA
39	DH	209	ALA
39	DH	228	GLU
39	DH	229	VAL
39	DH	238	LEU
39	DH	247	ASP
39	DH	248	LYS
40	DI	48	VAL
40	DI	52	LEU
40	DI	59	ASN
40	DI	98	PRO
40	DI	116	ASN
40	DI	129	ARG
40	DI	130	ASP

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Mol	Chain	Res	Type
40	DI	162	GLN
41	DJ	12	GLN
41	DJ	21	ARG
41	DJ	28	ASP
41	DJ	35	ASP
41	DJ	36	LEU
41	DJ	41	ALA
41	DJ	61	SER
41	DJ	78	THR
41	DJ	84	ALA
41	DJ	85	PHE
41	DJ	86	HIS
41	DJ	93	PRO
41	DJ	94	PHE
41	DJ	95	HIS
41	DJ	143	SER
41	DJ	177	ASP
41	DJ	185	ARG
41	DJ	189	GLU
41	DJ	196	PHE
41	DJ	212	GLU
42	DK	11	ASP
42	DK	15	GLU
42	DK	31	THR
42	DK	47	GLN
42	DK	52	TYR
42	DK	83	GLY
42	DK	92	ARG
42	DK	94	ARG
42	DK	98	ALA
42	DK	112	LEU
42	DK	121	GLY
42	DK	127	PHE
42	DK	141	ARG
42	DK	167	TYR
42	DK	170	ASP
72	DL	14	TYR
72	DL	21	GLU
72	DL	41	LYS
72	DL	55	GLY
72	DL	60	VAL
72	DL	66	ASN

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Mol	Chain	Res	Type
72	DL	69	ALA
72	DL	71	ALA
72	DL	91	ASP
72	DL	117	ARG
72	DL	127	SER
72	DL	140	GLY
73	DM	4	ILE
73	DM	13	ALA
73	DM	35	SER
73	DM	37	GLN
73	DM	38	MET
73	DM	50	VAL
73	DM	53	MET
73	DM	66	PHE
73	DM	190	VAL
73	DM	201	ILE
43	DN	56	GLN
43	DN	59	ASN
43	DN	65	LEU
43	DN	71	ALA
43	DN	73	PRO
43	DN	89	ALA
43	DN	100	ALA
43	DN	104	ALA
43	DN	118	PHE
43	DN	125	LYS
44	DO	16	SER
44	DO	21	PHE
44	DO	33	LYS
44	DO	52	GLY
44	DO	56	LYS
44	DO	80	THR
44	DO	110	ALA
44	DO	135	VAL
44	DO	142	ILE
44	DO	149	ASN
44	DO	166	ALA
44	DO	176	LYS
45	DP	6	VAL
45	DP	16	VAL
45	DP	32	LYS
45	DP	38	ALA

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Mol	Chain	Res	Type
45	DP	58	LEU
45	DP	62	THR
45	DP	78	ARG
45	DP	83	ALA
45	DP	93	ALA
45	DP	129	LEU
45	DP	163	SER
45	DP	166	GLU
45	DP	167	TYR
46	DQ	26	PHE
46	DQ	34	GLN
46	DQ	70	THR
46	DQ	78	VAL
46	DQ	86	LYS
46	DQ	87	SER
46	DQ	111	LYS
46	DQ	112	LEU
46	DQ	126	ARG
47	DR	20	LYS
47	DR	23	ASN
47	DR	24	VAL
47	DR	37	ALA
47	DR	44	PHE
47	DR	72	LYS
47	DR	87	VAL
47	DR	94	PHE
47	DR	98	LYS
47	DR	124	LEU
48	DS	55	VAL
48	DS	60	LYS
48	DS	72	GLU
48	DS	106	LEU
48	DS	128	LYS
48	DS	135	LYS
48	DS	140	GLU
49	DT	19	PHE
49	DT	43	LYS
49	DT	46	GLY
49	DT	48	ILE
49	DT	59	GLY
49	DT	69	LYS
49	DT	72	VAL

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Mol	Chain	Res	Type
49	DT	73	GLY
50	DU	11	PHE
50	DU	28	ASN
50	DU	31	ALA
50	DU	56	ASP
50	DU	88	ARG
50	DU	105	PRO
51	DV	3	VAL
51	DV	36	SER
51	DV	42	GLN
51	DV	44	LYS
51	DV	46	PRO
52	DW	49	LYS
52	DW	55	ASN
52	DW	86	VAL
52	DW	88	MET
52	DW	92	LYS
52	DW	98	ALA
52	DW	130	TYR
52	DW	138	ARG
53	DX	65	GLY
53	DX	71	SER
53	DX	79	ALA
53	DX	83	ASP
53	DX	92	GLY
53	DX	100	HIS
53	DX	116	LYS
54	DY	14	HIS
54	DY	34	MET
54	DY	37	GLY
54	DY	53	PHE
54	DY	65	GLN
55	DZ	42	ILE
55	DZ	53	LYS
56	Da	20	LEU
56	Da	26	LYS
56	Da	49	VAL
56	Da	61	LYS
56	Da	64	VAL
57	Db	12	LYS
57	Db	15	LYS
57	Db	43	ARG

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Mol	Chain	Res	Type
57	Db	55	ILE
57	Db	58	GLY
57	Db	62	LYS
57	Db	63	THR
57	Db	75	LEU
57	Db	84	THR
57	Db	89	THR
57	Db	123	LYS
58	Dc	18	ALA
58	Dc	37	SER
59	Dd	7	SER
59	Dd	8	PHE
59	Dd	9	GLY
59	Dd	20	ASN
59	Dd	25	ARG
59	Dd	26	SER
59	Dd	28	HIS
59	Dd	29	VAL
59	Dd	35	SER
59	Dd	36	SER
59	Dd	37	CYS
59	Dd	50	GLY
59	Dd	66	TYR
60	De	31	THR
60	De	34	THR
60	De	44	TRP
60	De	49	MET
61	Df	6	LYS
61	Df	11	TYR
61	Df	17	CYS
61	Df	21	THR
61	Df	41	ARG
61	Df	46	LYS
61	Df	47	GLN
61	Df	57	VAL
61	Df	58	PHE
61	Df	81	ALA
62	Dg	15	GLY
62	Dg	54	ILE
62	Dg	67	GLY
62	Dg	71	VAL
2	AA	12	GLU

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Mol	Chain	Res	Type
2	AA	38	PHE
2	AA	88	LYS
2	AA	153	SER
2	AA	165	ARG
2	AA	168	HIS
2	AA	203	PHE
3	AB	97	ARG
3	AB	98	PHE
3	AB	158	THR
3	AB	182	PRO
3	AB	195	ASP
3	AB	202	GLY
3	AB	228	ASN
3	AB	244	SER
4	AC	42	THR
4	AC	60	GLY
4	AC	67	ASN
4	AC	82	GLY
4	AC	104	SER
4	AC	134	CYS
5	AD	55	ASP
5	AD	125	THR
5	AD	165	LEU
5	AD	205	SER
5	AD	207	THR
6	AE	87	SER
6	AE	91	LYS
6	AE	107	ARG
6	AE	134	ILE
7	AF	81	HIS
8	AG	55	ARG
8	AG	63	ALA
8	AG	89	TYR
8	AG	108	ASP
8	AG	138	ASN
9	AH	3	ASN
9	AH	34	SER
9	AH	38	THR
9	AH	48	VAL
9	AH	73	GLU
10	AI	17	TYR
10	AI	18	ARG

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Mol	Chain	Res	Type
10	AI	92	SER
10	AI	116	LEU
11	AJ	47	LYS
11	AJ	56	GLY
11	AJ	88	GLY
11	AJ	110	THR
11	AJ	114	ARG
11	AJ	125	GLU
11	AJ	138	PHE
12	AK	28	PHE
13	AL	36	LYS
13	AL	46	VAL
14	AM	120	GLY
15	AN	97	VAL
15	AN	101	LYS
16	AO	41	MET
16	AO	94	LEU
16	AO	107	SER
17	AP	28	ASN
17	AP	81	LYS
17	AP	128	SER
18	AQ	59	TYR
18	AQ	75	LEU
18	AQ	80	LEU
19	AR	8	THR
19	AR	25	VAL
19	AR	43	ASN
20	AS	22	ARG
21	AT	10	ARG
21	AT	54	PHE
21	AT	90	ARG
21	AT	91	LEU
21	AT	117	LYS
21	AT	129	LYS
21	AT	139	GLN
21	AT	200	ASN
21	AT	217	ASP
21	AT	265	LEU
21	AT	268	GLN
21	AT	289	ALA
21	AT	318	ALA
32	BA	22	GLU

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Mol	Chain	Res	Type
32	BA	49	PHE
32	BA	57	ASN
32	BA	101	LYS
32	BA	102	LYS
32	BA	152	ARG
32	BA	202	GLY
33	BB	20	THR
33	BB	96	LEU
33	BB	128	ARG
33	BB	157	VAL
33	BB	173	GLY
33	BB	187	HIS
33	BB	214	GLY
34	BC	13	HIS
34	BC	49	TYR
34	BC	65	SER
34	BC	72	VAL
34	BC	88	GLY
34	BC	110	LEU
34	BC	121	ASN
34	BC	129	ALA
34	BC	146	ARG
34	BC	211	GLN
34	BC	261	MET
34	BC	290	ASP
34	BC	303	LYS
34	BC	308	MET
34	BC	319	ASN
34	BC	336	VAL
34	BC	354	VAL
35	BD	18	ASN
35	BD	29	PRO
35	BD	40	THR
35	BD	41	SER
35	BD	115	HIS
35	BD	127	ALA
35	BD	156	LEU
35	BD	232	SER
35	BD	233	LEU
35	BD	242	ALA
35	BD	251	THR
35	BD	262	TRP

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Mol	Chain	Res	Type
36	BE	79	TYR
36	BE	124	GLU
36	BE	132	THR
36	BE	143	LYS
36	BE	163	LEU
36	BE	184	ASP
36	BE	187	THR
36	BE	188	GLU
36	BE	230	ASP
37	BF	8	LYS
37	BF	50	LYS
37	BF	55	LEU
37	BF	66	SER
37	BF	123	PRO
37	BF	127	ASN
37	BF	132	ALA
37	BF	155	LEU
37	BF	158	TYR
38	BG	69	ALA
38	BG	72	ALA
38	BG	139	PRO
38	BG	150	LYS
38	BG	164	SER
38	BG	220	PHE
38	BG	222	HIS
39	BH	82	LEU
39	BH	95	ASN
39	BH	105	LYS
39	BH	123	GLN
39	BH	190	VAL
39	BH	196	ALA
39	BH	237	ILE
40	BI	42	ASP
40	BI	56	ALA
40	BI	59	ASN
40	BI	83	THR
40	BI	106	LYS
40	BI	116	ASN
40	BI	118	LEU
40	BI	137	SER
40	BI	155	SER
40	BI	179	ILE

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Mol	Chain	Res	Type
41	BJ	15	LYS
41	BJ	47	PRO
41	BJ	56	GLU
41	BJ	85	PHE
41	BJ	94	PHE
41	BJ	181	TYR
41	BJ	205	SER
41	BJ	214	PRO
42	BK	35	LYS
42	BK	119	SER
42	BK	156	LYS
42	BK	167	TYR
43	BN	71	ALA
43	BN	85	TRP
43	BN	89	ALA
43	BN	94	TRP
44	BO	34	ASN
44	BO	41	ARG
44	BO	59	PHE
44	BO	122	ASN
44	BO	135	VAL
44	BO	138	GLN
44	BO	154	PRO
44	BO	158	HIS
44	BO	159	ARG
44	BO	172	ARG
45	BP	39	GLU
45	BP	42	ASN
45	BP	46	GLU
45	BP	82	LYS
45	BP	149	TYR
45	BP	189	ASP
45	BP	193	GLN
46	BQ	29	THR
46	BQ	66	SER
46	BQ	85	ALA
46	BQ	86	LYS
46	BQ	121	GLN
47	BR	25	TYR
47	BR	54	LEU
47	BR	72	LYS
47	BR	83	VAL

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Mol	Chain	Res	Type
47	BR	109	GLY
47	BR	121	CYS
48	BS	71	ARG
49	BT	10	ARG
49	BT	14	MET
49	BT	73	GLY
49	BT	74	VAL
49	BT	78	LYS
50	BU	16	GLY
51	BV	36	SER
51	BV	43	ARG
52	BW	88	MET
52	BW	98	ALA
52	BW	111	ASN
53	BX	65	GLY
53	BX	76	LEU
53	BX	102	SER
54	BY	29	PRO
54	BY	83	PRO
54	BY	95	SER
54	BY	126	LYS
55	BZ	9	SER
55	BZ	38	LYS
56	Ba	5	LYS
56	Ba	20	LEU
56	Ba	26	LYS
56	Ba	31	ARG
56	Ba	63	GLY
56	Ba	64	VAL
56	Ba	68	GLU
57	Bb	23	ASP
57	Bb	34	LYS
57	Bb	70	GLY
57	Bb	78	ASN
58	Bc	5	LYS
58	Bc	65	ALA
59	Bd	19	CYS
59	Bd	25	ARG
59	Bd	36	SER
59	Bd	37	CYS
59	Bd	52	LYS
60	Be	49	MET

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Mol	Chain	Res	Type
61	Bf	17	CYS
61	Bf	19	LYS
61	Bf	56	PRO
62	Bg	65	ALA
2	CA	21	ASN
2	CA	38	PHE
2	CA	83	GLN
2	CA	85	ALA
2	CA	87	LEU
2	CA	112	THR
2	CA	165	ARG
2	CA	176	LEU
2	CA	192	THR
2	CA	198	MET
2	CA	203	PHE
3	CB	40	LYS
3	CB	46	LYS
3	CB	97	ARG
3	CB	150	GLN
3	CB	195	ASP
3	CB	213	ALA
3	CB	214	ALA
4	CC	23	GLU
4	CC	60	GLY
4	CC	61	GLU
4	CC	67	ASN
4	CC	82	GLY
4	CC	143	ARG
4	CC	158	ILE
5	CD	44	ASN
5	CD	45	LYS
5	CD	121	ILE
5	CD	128	ASN
5	CD	138	THR
5	CD	144	GLU
5	CD	153	GLY
5	CD	186	ASN
5	CD	207	THR
5	CD	213	LYS
5	CD	215	ASP
6	CE	38	ASN
6	CE	87	SER

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Mol	Chain	Res	Type
6	CE	107	ARG
6	CE	108	ARG
6	CE	123	HIS
6	CE	134	ILE
7	CF	81	HIS
7	CF	137	PHE
8	CG	52	VAL
8	CG	63	ALA
8	CG	70	LYS
8	CG	89	TYR
8	CG	110	ASP
8	CG	139	TRP
9	CH	34	SER
9	CH	48	VAL
10	CI	20	VAL
10	CI	32	ASP
10	CI	74	ALA
10	CI	92	SER
11	CJ	15	SER
11	CJ	28	LEU
11	CJ	47	LYS
11	CJ	98	ASP
11	CJ	107	LYS
12	CK	40	THR
13	CL	36	LYS
13	CL	101	LEU
13	CL	136	GLN
13	CL	139	LYS
14	CM	7	ARG
14	CM	18	TYR
14	CM	120	GLY
14	CM	122	ARG
15	CN	34	LEU
15	CN	103	ILE
16	CO	41	MET
16	CO	46	TYR
16	CO	104	LEU
17	CP	28	ASN
17	CP	41	SER
17	CP	95	PHE
18	CQ	59	TYR
18	CQ	86	GLU

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Mol	Chain	Res	Type
19	CR	8	THR
19	CR	38	ARG
20	CS	16	LYS
20	CS	22	ARG
21	CT	10	ARG
21	CT	54	PHE
21	CT	90	ARG
21	CT	91	LEU
21	CT	129	LYS
21	CT	139	GLN
21	CT	176	LYS
21	CT	186	PHE
21	CT	200	ASN
21	CT	217	ASP
21	CT	265	LEU
21	CT	289	ALA
32	DA	24	LYS
32	DA	94	ASN
32	DA	96	ASN
32	DA	194	LEU
32	DA	203	SER
33	DB	20	THR
33	DB	54	ARG
33	DB	103	PRO
33	DB	134	VAL
33	DB	151	PRO
33	DB	187	HIS
33	DB	215	ASN
33	DB	227	ARG
34	DC	2	SER
34	DC	13	HIS
34	DC	37	ARG
34	DC	68	HIS
34	DC	69	LYS
34	DC	92	TYR
34	DC	129	ALA
34	DC	130	PHE
34	DC	138	ALA
34	DC	216	ASP
34	DC	235	THR
34	DC	241	LYS
34	DC	255	TRP

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Mol	Chain	Res	Type
34	DC	295	ALA
34	DC	354	VAL
34	DC	364	LYS
35	DD	16	THR
35	DD	26	PHE
35	DD	29	PRO
35	DD	32	PRO
35	DD	127	ALA
35	DD	233	LEU
35	DD	238	LEU
35	DD	242	ALA
35	DD	250	TRP
35	DD	251	THR
35	DD	269	SER
35	DD	272	VAL
36	DE	40	HIS
36	DE	41	LYS
36	DE	72	ASP
36	DE	143	LYS
36	DE	158	ARG
36	DE	188	GLU
36	DE	213	ASP
36	DE	223	PHE
36	DE	230	ASP
36	DE	263	GLU
37	DF	8	LYS
37	DF	50	LYS
37	DF	107	ALA
37	DF	132	ALA
38	DG	74	SER
38	DG	139	PRO
38	DG	145	ARG
38	DG	190	THR
38	DG	194	HIS
38	DG	209	ASN
38	DG	219	LYS
38	DG	243	MET
39	DH	95	ASN
39	DH	105	LYS
39	DH	106	LYS
39	DH	208	GLU
39	DH	221	ASN

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Mol	Chain	Res	Type
40	DI	42	ASP
40	DI	64	HIS
40	DI	83	THR
40	DI	106	LYS
40	DI	118	LEU
40	DI	155	SER
40	DI	179	ILE
41	DJ	15	LYS
41	DJ	20	SER
41	DJ	47	PRO
41	DJ	67	ALA
41	DJ	171	TRP
41	DJ	198	LYS
41	DJ	205	SER
42	DK	144	CYS
42	DK	152	HIS
42	DK	156	LYS
72	DL	15	LEU
72	DL	54	LYS
72	DL	70	ALA
72	DL	86	LYS
72	DL	95	ASP
72	DL	131	GLU
73	DM	5	ARG
73	DM	6	GLU
73	DM	61	ARG
73	DM	68	SER
73	DM	103	ASN
43	DN	40	ASP
43	DN	77	ARG
43	DN	85	TRP
43	DN	88	ALA
43	DN	96	ALA
44	DO	34	ASN
44	DO	38	ARG
44	DO	59	PHE
44	DO	78	GLY
44	DO	81	TYR
44	DO	120	TRP
44	DO	144	ARG
44	DO	154	PRO
44	DO	158	HIS

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Mol	Chain	Res	Type
44	DO	164	LEU
44	DO	172	ARG
44	DO	185	ALA
45	DP	14	HIS
45	DP	82	LYS
45	DP	94	ARG
45	DP	96	LYS
45	DP	98	ALA
45	DP	149	TYR
45	DP	195	ALA
46	DQ	8	SER
46	DQ	13	LYS
46	DQ	29	THR
46	DQ	66	SER
46	DQ	105	LYS
46	DQ	109	ALA
46	DQ	145	HIS
46	DQ	154	GLU
47	DR	77	ALA
47	DR	121	CYS
47	DR	127	LEU
47	DR	154	GLY
48	DS	20	ARG
48	DS	71	ARG
48	DS	104	ARG
48	DS	121	HIS
49	DT	15	PHE
49	DT	29	THR
49	DT	55	LYS
49	DT	74	VAL
49	DT	77	ASN
49	DT	108	ARG
50	DU	16	GLY
50	DU	42	SER
50	DU	70	ARG
50	DU	86	ARG
50	DU	91	VAL
50	DU	103	ALA
51	DV	2	LYS
51	DV	7	SER
51	DV	53	VAL
52	DW	111	ASN

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Mol	Chain	Res	Type
53	DX	25	SER
53	DX	50	ILE
53	DX	113	LYS
54	DY	63	LYS
54	DY	81	LEU
54	DY	83	PRO
54	DY	95	SER
55	DZ	9	SER
55	DZ	38	LYS
55	DZ	84	LEU
56	Da	9	THR
56	Da	17	HIS
56	Da	31	ARG
56	Da	50	ARG
56	Da	68	GLU
57	Db	45	ARG
57	Db	70	GLY
57	Db	78	ASN
57	Db	83	GLU
57	Db	103	LYS
57	Db	104	ASN
57	Db	115	LEU
57	Db	122	PRO
58	Dc	5	LYS
59	Dd	12	HIS
59	Dd	19	CYS
59	Dd	52	LYS
60	De	32	ASN
61	Df	19	LYS
61	Df	56	PRO
61	Df	62	ALA
62	Dg	50	GLY
62	Dg	65	ALA
2	AA	53	THR
2	AA	68	PRO
2	AA	82	GLY
2	AA	83	GLN
2	AA	107	PHE
2	AA	145	ALA
2	AA	158	VAL
2	AA	199	PRO
3	AB	45	VAL

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Mol	Chain	Res	Type
3	AB	46	LYS
3	AB	71	THR
3	AB	169	LEU
3	AB	206	THR
3	AB	233	GLN
4	AC	68	GLU
4	AC	97	SER
4	AC	115	ILE
4	AC	125	TYR
4	AC	158	ILE
5	AD	58	LEU
5	AD	138	THR
5	AD	148	ARG
5	AD	157	ARG
5	AD	186	ASN
5	AD	196	GLU
5	AD	212	LYS
5	AD	219	ARG
6	AE	52	ILE
6	AE	60	LEU
6	AE	180	LYS
7	AF	119	VAL
7	AF	140	VAL
8	AG	70	LYS
8	AG	81	ALA
8	AG	110	ASP
9	AH	32	ASP
9	AH	80	HIS
9	AH	110	LEU
9	AH	117	ASP
10	AI	12	PHE
10	AI	36	LEU
10	AI	52	LYS
10	AI	55	GLY
10	AI	63	ALA
10	AI	67	ALA
10	AI	70	ASN
10	AI	90	ILE
11	AJ	28	LEU
11	AJ	46	PHE
11	AJ	51	PRO
11	AJ	90	VAL

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Mol	Chain	Res	Type
11	AJ	99	GLU
11	AJ	106	LYS
11	AJ	134	ALA
12	AK	11	ARG
12	AK	40	THR
12	AK	67	ARG
13	AL	29	VAL
13	AL	44	ASN
13	AL	58	ALA
13	AL	76	PRO
13	AL	82	PRO
13	AL	83	ALA
13	AL	136	GLN
14	AM	5	SER
14	AM	52	GLY
14	AM	70	GLN
14	AM	134	ARG
15	AN	34	LEU
15	AN	41	ILE
15	AN	49	ASN
15	AN	70	THR
15	AN	103	ILE
16	AO	46	TYR
16	AO	81	VAL
16	AO	83	ILE
17	AP	95	PHE
17	AP	137	LYS
17	AP	141	GLU
18	AQ	84	GLU
19	AR	32	PHE
19	AR	38	ARG
21	AT	57	PRO
21	AT	63	GLY
21	AT	94	VAL
21	AT	105	GLY
21	AT	243	LEU
21	AT	291	SER
32	BA	27	ASN
32	BA	107	TYR
32	BA	132	GLY
32	BA	155	ILE
32	BA	165	LEU

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Mol	Chain	Res	Type
32	BA	189	PHE
32	BA	213	ALA
33	BB	29	LEU
33	BB	52	SER
33	BB	53	GLY
33	BB	131	GLY
33	BB	224	THR
34	BC	57	VAL
34	BC	90	VAL
34	BC	164	THR
34	BC	183	LEU
34	BC	193	ASP
34	BC	199	PHE
34	BC	216	ASP
34	BC	255	TRP
34	BC	256	HIS
34	BC	273	HIS
34	BC	295	ALA
34	BC	364	LYS
35	BD	39	PHE
35	BD	45	ASN
35	BD	78	GLY
35	BD	272	VAL
36	BE	41	LYS
36	BE	72	ASP
36	BE	123	GLU
36	BE	136	GLU
36	BE	177	GLU
36	BE	257	GLU
36	BE	263	GLU
36	BE	294	ALA
37	BF	61	ASN
37	BF	73	GLY
37	BF	107	ALA
37	BF	128	LYS
38	BG	28	ALA
38	BG	33	ARG
38	BG	55	TYR
38	BG	135	ALA
38	BG	161	VAL
38	BG	216	VAL
39	BH	88	ALA

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Mol	Chain	Res	Type
39	BH	106	LYS
39	BH	155	ASN
39	BH	169	LEU
39	BH	221	ASN
39	BH	235	GLY
40	BI	17	THR
40	BI	38	LEU
40	BI	105	GLU
40	BI	111	PHE
40	BI	185	GLY
41	BJ	20	SER
41	BJ	60	LEU
41	BJ	66	GLU
41	BJ	67	ALA
41	BJ	91	VAL
41	BJ	154	ARG
41	BJ	163	GLN
42	BK	98	ALA
42	BK	106	ILE
42	BK	144	CYS
43	BN	40	ASP
44	BO	47	LYS
44	BO	74	PRO
44	BO	137	PRO
44	BO	142	ILE
44	BO	175	ASN
45	BP	14	HIS
45	BP	77	SER
46	BQ	8	SER
46	BQ	31	GLU
46	BQ	34	GLN
46	BQ	87	SER
46	BQ	132	ALA
47	BR	21	SER
47	BR	37	ALA
47	BR	41	ASP
47	BR	46	LYS
47	BR	86	THR
47	BR	96	PHE
48	BS	12	ALA
48	BS	20	ARG
48	BS	72	GLU

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Mol	Chain	Res	Type
48	BS	97	ARG
48	BS	121	HIS
49	BT	29	THR
49	BT	42	ILE
49	BT	57	TYR
50	BU	42	SER
50	BU	70	ARG
50	BU	91	VAL
50	BU	103	ALA
51	BV	9	SER
51	BV	35	LYS
51	BV	46	PRO
53	BX	21	THR
53	BX	42	GLN
53	BX	96	PRO
53	BX	119	ILE
54	BY	46	ASP
54	BY	51	GLY
54	BY	63	LYS
54	BY	65	GLN
54	BY	66	ALA
54	BY	129	PHE
54	BY	136	GLU
55	BZ	69	TYR
55	BZ	77	LEU
55	BZ	84	LEU
56	Ba	49	VAL
56	Ba	72	ARG
56	Ba	77	ARG
57	Bb	17	PHE
57	Bb	35	GLN
57	Bb	49	ASN
57	Bb	83	GLU
57	Bb	92	TYR
57	Bb	103	LYS
57	Bb	108	ILE
57	Bb	115	LEU
58	Bc	28	LEU
58	Bc	35	LYS
59	Bd	22	CYS
59	Bd	33	THR
60	Be	32	ASN

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Mol	Chain	Res	Type
61	Bf	12	CYS
61	Bf	59	HIS
62	Bg	14	TYR
62	Bg	68	ALA
2	CA	18	LEU
2	CA	68	PRO
2	CA	82	GLY
2	CA	99	ALA
2	CA	153	SER
2	CA	158	VAL
2	CA	168	HIS
3	CB	69	ILE
3	CB	153	SER
3	CB	182	PRO
4	CC	93	ASP
4	CC	104	SER
4	CC	134	CYS
4	CC	146	ARG
4	CC	159	HIS
5	CD	125	THR
5	CD	134	VAL
5	CD	148	ARG
5	CD	170	GLN
5	CD	181	GLU
5	CD	196	GLU
5	CD	205	SER
5	CD	211	ILE
5	CD	212	LYS
5	CD	219	ARG
6	CE	27	GLU
6	CE	46	SER
6	CE	91	LYS
6	CE	101	VAL
6	CE	180	LYS
7	CF	101	GLU
7	CF	135	VAL
8	CG	55	ARG
8	CG	75	LEU
8	CG	81	ALA
9	CH	32	ASP
9	CH	38	THR
9	CH	110	LEU

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Mol	Chain	Res	Type
10	CI	36	LEU
10	CI	52	LYS
10	CI	55	GLY
10	CI	67	ALA
10	CI	90	ILE
10	CI	126	VAL
11	CJ	23	LYS
11	CJ	44	LEU
11	CJ	46	PHE
11	CJ	51	PRO
11	CJ	56	GLY
11	CJ	88	GLY
11	CJ	114	ARG
11	CJ	134	ALA
12	CK	11	ARG
12	CK	27	ASP
12	CK	28	PHE
12	CK	47	ARG
13	CL	56	LYS
13	CL	58	ALA
13	CL	61	LEU
13	CL	73	MET
13	CL	83	ALA
13	CL	135	GLY
13	CL	140	THR
14	CM	5	SER
14	CM	64	HIS
14	CM	70	GLN
15	CN	70	THR
16	CO	50	PHE
16	CO	60	LYS
16	CO	83	ILE
16	CO	107	SER
17	CP	122	PHE
17	CP	137	LYS
17	CP	141	GLU
18	CQ	80	LEU
18	CQ	84	GLU
19	CR	25	VAL
19	CR	32	PHE
19	CR	33	LEU
19	CR	37	SER

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Mol	Chain	Res	Type
21	CT	57	PRO
21	CT	63	GLY
21	CT	105	GLY
21	CT	117	LYS
21	CT	192	PHE
21	CT	243	LEU
32	DA	6	SER
32	DA	25	LYS
32	DA	44	GLN
32	DA	47	LYS
32	DA	58	CYS
32	DA	80	CYS
32	DA	86	SER
32	DA	154	THR
33	DB	46	LYS
33	DB	52	SER
33	DB	53	GLY
33	DB	130	SER
33	DB	131	GLY
34	DC	65	SER
34	DC	72	VAL
34	DC	90	VAL
34	DC	96	PRO
34	DC	121	ASN
34	DC	142	ALA
34	DC	183	LEU
34	DC	192	VAL
34	DC	222	LYS
34	DC	260	VAL
34	DC	308	MET
34	DC	348	ARG
35	DD	18	ASN
35	DD	55	LYS
35	DD	87	GLN
35	DD	94	CYS
35	DD	98	ARG
35	DD	106	TRP
35	DD	115	HIS
35	DD	156	LEU
35	DD	178	LEU
35	DD	262	TRP
35	DD	268	ALA

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Mol	Chain	Res	Type
36	DE	30	TYR
36	DE	44	TYR
36	DE	184	ASP
36	DE	187	THR
37	DF	55	LEU
37	DF	66	SER
37	DF	76	LEU
37	DF	140	VAL
37	DF	155	LEU
37	DF	158	TYR
37	DF	160	SER
38	DG	33	ARG
38	DG	135	ALA
38	DG	153	PHE
38	DG	164	SER
38	DG	216	VAL
39	DH	82	LEU
39	DH	84	ARG
39	DH	86	THR
39	DH	97	TYR
39	DH	169	LEU
39	DH	186	LEU
39	DH	190	VAL
39	DH	235	GLY
39	DH	237	ILE
40	DI	17	THR
40	DI	56	ALA
40	DI	62	ARG
40	DI	73	SER
40	DI	105	GLU
40	DI	111	PHE
40	DI	137	SER
40	DI	175	PHE
41	DJ	18	PRO
41	DJ	19	LYS
41	DJ	163	GLN
41	DJ	181	TYR
41	DJ	207	GLU
42	DK	119	SER
42	DK	123	PHE
42	DK	157	GLU
72	DL	89	PRO

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Mol	Chain	Res	Type
72	DL	92	ARG
72	DL	120	SER
72	DL	128	VAL
73	DM	64	ARG
73	DM	197	PHE
43	DN	112	LEU
44	DO	41	ARG
44	DO	43	THR
44	DO	122	ASN
44	DO	173	GLY
45	DP	39	GLU
46	DQ	63	PHE
46	DQ	132	ALA
47	DR	96	PHE
47	DR	128	ALA
47	DR	132	PRO
47	DR	157	PRO
48	DS	38	ARG
49	DT	9	SER
49	DT	36	VAL
49	DT	71	SER
49	DT	78	LYS
50	DU	14	SER
50	DU	79	VAL
50	DU	85	TRP
51	DV	43	ARG
51	DV	50	ALA
52	DW	89	LYS
52	DW	128	ALA
53	DX	102	SER
54	DY	19	LYS
54	DY	29	PRO
54	DY	51	GLY
54	DY	66	ALA
54	DY	96	LYS
54	DY	126	LYS
54	DY	131	SER
55	DZ	52	ARG
55	DZ	69	TYR
56	Da	5	LYS
56	Da	43	HIS
56	Da	63	GLY

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Mol	Chain	Res	Type
57	Db	17	PHE
57	Db	23	ASP
57	Db	34	LYS
57	Db	86	THR
58	Dc	27	GLU
58	Dc	65	ALA
59	Dd	22	CYS
59	Dd	33	THR
61	Df	3	ASN
61	Df	12	CYS
62	Dg	14	TYR
62	Dg	26	VAL
62	Dg	46	THR
2	AA	25	GLY
2	AA	81	PHE
2	AA	119	ARG
2	AA	195	TRP
3	AB	61	LEU
3	AB	95	ARG
3	AB	138	PRO
3	AB	146	THR
3	AB	153	SER
4	AC	93	ASP
4	AC	164	VAL
5	AD	45	LYS
5	AD	65	ARG
5	AD	213	LYS
5	AD	214	LYS
5	AD	221	ALA
6	AE	34	PHE
6	AE	101	VAL
6	AE	123	HIS
7	AF	101	GLU
7	AF	115	PHE
7	AF	135	VAL
7	AF	137	PHE
8	AG	77	SER
8	AG	142	GLU
8	AG	150	VAL
10	AI	20	VAL
10	AI	74	ALA
11	AJ	15	SER

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Mol	Chain	Res	Type
12	AK	21	TYR
12	AK	43	SER
12	AK	66	VAL
13	AL	16	ARG
13	AL	56	LYS
13	AL	61	LEU
13	AL	120	ARG
13	AL	135	GLY
16	AO	104	LEU
17	AP	91	GLY
21	AT	158	PRO
21	AT	286	GLU
32	BA	5	THR
32	BA	45	ARG
32	BA	92	LYS
32	BA	108	ASN
32	BA	154	THR
33	BB	17	THR
33	BB	27	ALA
33	BB	46	LYS
33	BB	99	GLY
33	BB	177	LYS
34	BC	111	SER
34	BC	130	PHE
34	BC	218	ILE
34	BC	347	SER
35	BD	250	TRP
35	BD	269	SER
36	BE	64	ILE
36	BE	226	TYR
36	BE	286	VAL
37	BF	30	LEU
37	BF	36	PRO
37	BF	67	GLY
37	BF	98	VAL
37	BF	140	VAL
38	BG	30	ARG
38	BG	83	LEU
38	BG	123	THR
38	BG	134	VAL
38	BG	145	ARG
38	BG	153	PHE

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Mol	Chain	Res	Type
38	BG	211	SER
39	BH	97	TYR
39	BH	134	TYR
39	BH	241	LYS
40	BI	130	ASP
40	BI	175	PHE
41	BJ	8	CYS
41	BJ	41	ALA
41	BJ	171	TRP
41	BJ	212	GLU
42	BK	12	LEU
42	BK	44	THR
42	BK	130	VAL
43	BN	36	VAL
44	BO	31	ARG
45	BP	24	ALA
45	BP	94	ARG
45	BP	98	ALA
45	BP	166	GLU
45	BP	177	LYS
45	BP	195	ALA
47	BR	77	ALA
47	BR	101	VAL
48	BS	8	LYS
48	BS	25	ASP
49	BT	27	LEU
49	BT	108	ARG
50	BU	11	PHE
50	BU	13	ILE
50	BU	56	ASP
50	BU	86	ARG
52	BW	96	LYS
52	BW	115	ARG
52	BW	128	ALA
54	BY	15	VAL
54	BY	19	LYS
54	BY	25	HIS
54	BY	28	HIS
54	BY	49	HIS
54	BY	70	LYS
54	BY	128	ARG
55	BZ	52	ARG

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Mol	Chain	Res	Type
56	Ba	23	VAL
56	Ba	57	GLN
56	Ba	82	GLU
57	Bb	16	LYS
57	Bb	32	TRP
57	Bb	75	LEU
57	Bb	86	THR
59	Bd	34	CYS
60	Be	37	TYR
60	Be	39	ALA
61	Bf	3	ASN
61	Bf	39	GLY
61	Bf	45	ARG
61	Bf	55	LYS
61	Bf	62	ALA
62	Bg	26	VAL
62	Bg	74	ALA
2	CA	93	THR
2	CA	145	ALA
2	CA	152	PRO
2	CA	160	ILE
2	CA	195	TRP
2	CA	199	PRO
3	CB	45	VAL
3	CB	71	THR
3	CB	138	PRO
4	CC	164	VAL
5	CD	60	ASP
5	CD	157	ARG
5	CD	165	LEU
5	CD	221	ALA
6	CE	60	LEU
6	CE	74	ASN
6	CE	75	ALA
6	CE	125	ALA
6	CE	170	GLY
6	CE	183	ALA
8	CG	77	SER
8	CG	150	VAL
10	CI	16	SER
10	CI	63	ALA
10	CI	117	GLY

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Mol	Chain	Res	Type
11	CJ	55	VAL
12	CK	21	TYR
12	CK	59	LYS
12	CK	66	VAL
13	CL	82	PRO
13	CL	120	ARG
14	CM	15	ILE
14	CM	114	VAL
14	CM	121	GLY
14	CM	124	ILE
15	CN	12	GLN
17	CP	102	VAL
17	CP	118	PRO
18	CQ	96	SER
21	CT	158	PRO
21	CT	286	GLU
32	DA	74	VAL
32	DA	88	ASP
33	DB	10	LYS
33	DB	177	LYS
34	DC	88	GLY
34	DC	218	ILE
34	DC	256	HIS
35	DD	12	THR
35	DD	40	THR
35	DD	41	SER
36	DE	103	LEU
36	DE	142	PHE
36	DE	156	GLY
36	DE	192	PRO
36	DE	202	GLY
36	DE	226	TYR
36	DE	248	ARG
36	DE	294	ALA
37	DF	36	PRO
37	DF	73	GLY
37	DF	81	ALA
38	DG	72	ALA
38	DG	83	LEU
38	DG	111	ILE
38	DG	134	VAL
38	DG	161	VAL

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Mol	Chain	Res	Type
39	DH	165	PHE
39	DH	176	PRO
39	DH	243	GLN
40	DI	38	LEU
40	DI	51	GLN
40	DI	185	GLY
41	DJ	66	GLU
41	DJ	147	VAL
41	DJ	194	GLY
41	DJ	214	PRO
42	DK	130	VAL
72	DL	121	PHE
72	DL	136	ALA
73	DM	69	ASP
73	DM	96	ILE
44	DO	74	PRO
45	DP	180	SER
45	DP	191	ALA
46	DQ	4	TYR
46	DQ	85	ALA
47	DR	21	SER
47	DR	41	ASP
47	DR	46	LYS
48	DS	17	VAL
48	DS	27	ASN
49	DT	10	ARG
49	DT	24	ALA
49	DT	53	PRO
49	DT	57	TYR
49	DT	102	ARG
50	DU	13	ILE
52	DW	95	ILE
52	DW	110	VAL
53	DX	42	GLN
54	DY	25	HIS
54	DY	70	LYS
55	DZ	77	LEU
56	Da	42	LEU
56	Da	72	ARG
57	Db	9	ILE
57	Db	21	HIS
60	De	26	TRP

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Mol	Chain	Res	Type
60	De	39	ALA
61	Df	45	ARG
61	Df	48	SER
61	Df	59	HIS
62	Dg	74	ALA
3	AB	123	GLY
4	AC	29	LEU
4	AC	146	ARG
5	AD	170	GLN
9	AH	87	GLY
10	AI	76	VAL
11	AJ	33	GLY
11	AJ	84	ALA
12	AK	20	TYR
14	AM	61	VAL
14	AM	114	VAL
15	AN	118	VAL
17	AP	69	ARG
17	AP	88	PRO
17	AP	118	PRO
19	AR	37	SER
21	AT	136	ILE
21	AT	138	GLY
33	BB	10	LYS
33	BB	62	VAL
34	BC	268	GLY
35	BD	32	PRO
35	BD	87	GLN
35	BD	94	CYS
35	BD	101	ALA
36	BE	141	PRO
36	BE	156	GLY
36	BE	183	TRP
36	BE	269	SER
37	BF	65	ILE
37	BF	125	GLN
38	BG	38	LYS
38	BG	243	MET
39	BH	136	LEU
40	BI	51	GLN
40	BI	158	ALA
42	BK	36	VAL

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Mol	Chain	Res	Type
42	BK	75	LYS
42	BK	157	GLU
44	BO	38	ARG
44	BO	144	ARG
44	BO	153	ASP
44	BO	173	GLY
45	BP	164	SER
46	BQ	54	HIS
48	BS	33	ALA
49	BT	12	ARG
49	BT	24	ALA
49	BT	51	GLY
49	BT	53	PRO
50	BU	55	GLY
51	BV	50	ALA
55	BZ	57	GLU
55	BZ	92	ILE
57	Bb	60	ASN
57	Bb	71	HIS
57	Bb	122	PRO
58	Bc	4	VAL
58	Bc	16	GLN
58	Bc	34	GLN
59	Bd	58	THR
60	Be	10	LYS
61	Bf	48	SER
62	Bg	50	GLY
2	CA	104	PRO
3	CB	56	ILE
3	CB	65	GLU
4	CC	15	GLY
4	CC	91	VAL
5	CD	200	ASN
8	CG	108	ASP
8	CG	143	SER
9	CH	58	TYR
9	CH	87	GLY
9	CH	115	ILE
11	CJ	33	GLY
12	CK	67	ARG
13	CL	29	VAL
13	CL	76	PRO

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Mol	Chain	Res	Type
15	CN	118	VAL
16	CO	7	LEU
17	CP	38	PHE
20	CS	25	SER
21	CT	138	GLY
21	CT	291	SER
32	DA	135	PRO
32	DA	137	PRO
32	DA	209	SER
33	DB	6	ARG
33	DB	62	VAL
33	DB	91	GLY
33	DB	113	VAL
34	DC	133	TYR
34	DC	161	LEU
34	DC	204	ALA
35	DD	169	LEU
36	DE	64	ILE
36	DE	123	GLU
36	DE	136	GLU
36	DE	141	PRO
36	DE	257	GLU
36	DE	265	TYR
36	DE	269	SER
36	DE	286	VAL
36	DE	291	ALA
37	DF	65	ILE
37	DF	67	GLY
37	DF	128	LYS
38	DG	37	ASN
40	DI	55	VAL
41	DJ	197	VAL
41	DJ	216	TYR
42	DK	35	LYS
42	DK	64	LYS
72	DL	85	LEU
72	DL	98	VAL
73	DM	47	GLY
73	DM	97	LYS
43	DN	61	GLY
45	DP	23	VAL
45	DP	84	LEU

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Mol	Chain	Res	Type
45	DP	95	GLY
45	DP	165	ALA
46	DQ	121	GLN
47	DR	40	THR
47	DR	131	ALA
48	DS	13	SER
48	DS	25	ASP
48	DS	147	ALA
50	DU	17	LEU
50	DU	44	SER
51	DV	9	SER
52	DW	115	ARG
53	DX	78	PHE
54	DY	15	VAL
54	DY	46	ASP
54	DY	49	HIS
54	DY	93	SER
55	DZ	92	ILE
56	Da	82	GLU
57	Db	107	VAL
58	Dc	4	VAL
59	Dd	32	LYS
59	Dd	60	GLY
60	De	37	TYR
61	Df	39	GLY
62	Dg	13	LYS
62	Dg	68	ALA
3	AB	160	GLY
6	AE	35	GLY
6	AE	144	PRO
9	AH	115	ILE
10	AI	105	VAL
11	AJ	39	VAL
14	AM	124	ILE
15	AN	58	LEU
17	AP	44	GLY
33	BB	91	GLY
34	BC	8	ALA
34	BC	96	PRO
38	BG	203	TRP
40	BI	55	VAL
41	BJ	4	ARG

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Mol	Chain	Res	Type
41	BJ	172	GLY
41	BJ	194	GLY
48	BS	77	GLY
52	BW	110	VAL
53	BX	106	ILE
57	Bb	9	ILE
3	CB	160	GLY
3	CB	216	VAL
10	CI	76	VAL
11	CJ	39	VAL
14	CM	52	GLY
14	CM	61	VAL
15	CN	41	ILE
15	CN	58	LEU
17	CP	96	VAL
34	DC	8	ALA
34	DC	33	PRO
35	DD	22	LEU
35	DD	52	VAL
35	DD	101	ALA
37	DF	79	VAL
41	DJ	27	PRO
41	DJ	91	VAL
42	DK	106	ILE
72	DL	23	GLY
73	DM	82	GLY
73	DM	101	VAL
43	DN	36	VAL
43	DN	38	ILE
44	DO	137	PRO
44	DO	153	ASP
46	DQ	24	VAL
47	DR	67	ILE
55	DZ	81	VAL
56	Da	8	VAL
57	Db	67	SER
61	Df	55	LYS
2	AA	104	PRO
5	AD	114	ILE
9	AH	13	VAL
9	AH	74	VAL
10	AI	126	VAL

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Mol	Chain	Res	Type
16	AO	25	VAL
17	AP	96	VAL
17	AP	102	VAL
18	AQ	40	VAL
32	BA	69	GLY
33	BB	113	VAL
33	BB	135	ILE
33	BB	196	TRP
35	BD	52	VAL
35	BD	71	VAL
36	BE	26	GLY
36	BE	254	LYS
39	BH	176	PRO
39	BH	182	GLY
44	BO	89	VAL
56	Ba	8	VAL
2	CA	25	GLY
5	CD	123	VAL
6	CE	52	ILE
6	CE	144	PRO
9	CH	13	VAL
9	CH	74	VAL
15	CN	73	GLY
17	CP	88	PRO
17	CP	91	GLY
35	DD	216	VAL
36	DE	254	LYS
41	DJ	172	GLY
42	DK	44	THR
72	DL	64	ILE
72	DL	102	GLY
72	DL	132	ILE
73	DM	80	VAL
43	DN	120	VAL
44	DO	89	VAL
47	DR	83	VAL
47	DR	109	GLY
53	DX	119	ILE
56	Da	23	VAL
57	Db	108	ILE
2	AA	144	ILE
3	AB	56	ILE

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Mol	Chain	Res	Type
3	AB	171	PRO
3	AB	216	VAL
5	AD	121	ILE
5	AD	152	GLY
21	AT	20	VAL
32	BA	65	ILE
33	BB	85	GLY
34	BC	278	ILE
36	BE	202	GLY
38	BG	102	VAL
39	BH	127	PRO
39	BH	135	GLY
41	BJ	18	PRO
49	BT	109	VAL
53	BX	105	VAL
54	BY	57	GLY
55	BZ	81	VAL
59	Bd	60	GLY
2	CA	37	VAL
4	CC	112	GLY
4	CC	123	VAL
5	CD	120	ILE
5	CD	152	GLY
6	CE	42	ILE
15	CN	42	VAL
16	CO	25	VAL
36	DE	201	GLY
37	DF	152	THR
41	DJ	4	ARG
41	DJ	89	VAL
43	DN	46	ILE
47	DR	101	VAL
48	DS	96	ILE
51	DV	45	ASN
54	DY	28	HIS
57	Db	100	ILE
58	Dc	33	VAL
2	AA	37	VAL
6	AE	73	GLY
11	AJ	50	GLU
13	AL	105	VAL
17	AP	125	VAL

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Mol	Chain	Res	Type
36	BE	192	PRO
36	BE	201	GLY
37	BF	84	VAL
41	BJ	117	GLY
41	BJ	131	ILE
42	BK	105	GLY
42	BK	117	ASP
43	BN	38	ILE
45	BP	95	GLY
45	BP	190	VAL
46	BQ	24	VAL
48	BS	17	VAL
50	BU	17	LEU
52	BW	83	VAL
55	BZ	18	ILE
2	CA	144	ILE
3	CB	123	GLY
4	CC	12	VAL
6	CE	73	GLY
9	CH	44	GLY
14	CM	112	GLY
17	CP	125	VAL
21	CT	15	GLY
32	DA	55	LEU
33	DB	135	ILE
36	DE	26	GLY
37	DF	75	PRO
40	DI	28	VAL
41	DJ	122	PRO
43	DN	18	GLY
49	DT	51	GLY
50	DU	55	GLY
52	DW	81	ILE
52	DW	83	VAL
57	Db	41	VAL
2	AA	152	PRO
6	AE	42	ILE
10	AI	117	GLY
14	AM	26	GLY
15	AN	42	VAL
17	AP	77	ILE
35	BD	22	LEU

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Mol	Chain	Res	Type
35	BD	86	GLY
35	BD	216	VAL
40	BI	28	VAL
40	BI	101	VAL
41	BJ	27	PRO
41	BJ	89	VAL
43	BN	72	LEU
47	BR	132	PRO
55	BZ	88	GLY
57	Bb	5	PRO
57	Bb	67	SER
58	Bc	42	PRO
11	CJ	50	GLU
17	CP	117	ILE
33	DB	99	GLY
35	DD	192	GLY
36	DE	138	GLY
40	DI	24	ILE
41	DJ	117	GLY
41	DJ	131	ILE
73	DM	51	VAL
49	DT	80	VAL
58	Dc	42	PRO
58	Bc	39	PRO
59	Bd	40	PRO
58	Dc	39	PRO

5.3.2 Protein sidechains (i)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A1	1787/1800 (99%)	1004 (56%)	148 (8%)
1	C1	1787/1800 (99%)	993 (55%)	150 (8%)
29	B1	3203/3396 (94%)	1734 (54%)	259 (8%)
29	D1	3203/3396 (94%)	1726 (53%)	257 (8%)
30	B2	120/121 (99%)	70 (58%)	12 (10%)
30	D2	120/121 (99%)	66 (55%)	12 (10%)
31	B3	157/158 (99%)	80 (50%)	9 (5%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
31	D3	157/158 (99%)	79 (50%)	9 (5%)
All	All	10534/10950 (96%)	5752 (54%)	856 (8%)

All (5752) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A1	2	A
1	A1	3	U
1	A1	4	C
1	A1	7	G
1	A1	8	U
1	A1	13	C
1	A1	17	C
1	A1	20	G
1	A1	21	U
1	A1	22	A
1	A1	24	U
1	A1	25	C
1	A1	26	A
1	A1	27	U
1	A1	31	C
1	A1	34	G
1	A1	35	U
1	A1	40	A
1	A1	41	A
1	A1	42	G
1	A1	45	U
1	A1	46	A
1	A1	47	A
1	A1	48	G
1	A1	50	C
1	A1	51	A
1	A1	54	C
1	A1	56	U
1	A1	57	G
1	A1	58	U
1	A1	59	C
1	A1	60	U
1	A1	61	A
1	A1	62	A
1	A1	63	G
1	A1	64	U

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Mol	Chain	Res	Type
1	A1	65	A
1	A1	66	U
1	A1	67	A
1	A1	68	A
1	A1	69	G
1	A1	70	C
1	A1	71	A
1	A1	72	A
1	A1	75	U
1	A1	76	A
1	A1	77	U
1	A1	78	A
1	A1	79	C
1	A1	80	A
1	A1	81	G
1	A1	82	U
1	A1	83	G
1	A1	86	A
1	A1	88	U
1	A1	99	C
1	A1	100	A
1	A1	102	U
1	A1	104	A
1	A1	105	A
1	A1	106	U
1	A1	111	U
1	A1	112	A
1	A1	113	U
1	A1	114	C
1	A1	115	G
1	A1	117	U
1	A1	119	A
1	A1	120	U
1	A1	121	U
1	A1	122	U
1	A1	123	G
1	A1	124	A
1	A1	125	U
1	A1	126	A
1	A1	128	U
1	A1	129	U
1	A1	130	C

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Mol	Chain	Res	Type
1	A1	131	C
1	A1	132	U
1	A1	133	U
1	A1	134	U
1	A1	135	A
1	A1	136	C
1	A1	137	U
1	A1	138	A
1	A1	139	C
1	A1	140	A
1	A1	141	U
1	A1	143	G
1	A1	144	U
1	A1	145	A
1	A1	146	U
1	A1	147	A
1	A1	148	A
1	A1	149	C
1	A1	150	U
1	A1	151	G
1	A1	156	A
1	A1	158	U
1	A1	159	U
1	A1	160	C
1	A1	161	U
1	A1	162	A
1	A1	166	C
1	A1	167	U
1	A1	168	A
1	A1	169	A
1	A1	170	U
1	A1	171	A
1	A1	172	C
1	A1	173	A
1	A1	174	U
1	A1	177	U
1	A1	178	U
1	A1	179	A
1	A1	180	A
1	A1	181	A
1	A1	184	C
1	A1	187	G

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Mol	Chain	Res	Type
1	A1	191	C
1	A1	192	U
1	A1	193	U
1	A1	194	U
1	A1	195	G
1	A1	196	G
1	A1	197	A
1	A1	198	A
1	A1	199	G
1	A1	200	A
1	A1	201	G
1	A1	204	G
1	A1	208	U
1	A1	209	U
1	A1	211	U
1	A1	212	U
1	A1	213	A
1	A1	215	A
1	A1	218	A
1	A1	219	A
1	A1	220	A
1	A1	224	C
1	A1	226	A
1	A1	227	U
1	A1	228	G
1	A1	229	U
1	A1	233	C
1	A1	234	G
1	A1	238	U
1	A1	241	U
1	A1	242	U
1	A1	243	G
1	A1	244	A
1	A1	245	U
1	A1	246	G
1	A1	249	U
1	A1	250	C
1	A1	252	U
1	A1	253	A
1	A1	254	A
1	A1	255	U
1	A1	256	A

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Mol	Chain	Res	Type
1	A1	257	A
1	A1	259	U
1	A1	260	U
1	A1	261	U
1	A1	262	U
1	A1	263	C
1	A1	264	G
1	A1	265	A
1	A1	266	A
1	A1	267	U
1	A1	270	C
1	A1	271	A
1	A1	272	U
1	A1	273	G
1	A1	274	G
1	A1	276	C
1	A1	277	U
1	A1	278	U
1	A1	280	U
1	A1	282	C
1	A1	283	U
1	A1	284	G
1	A1	285	G
1	A1	289	U
1	A1	295	A
1	A1	296	U
1	A1	297	U
1	A1	298	C
1	A1	299	A
1	A1	302	U
1	A1	308	C
1	A1	309	C
1	A1	310	C
1	A1	311	U
1	A1	312	A
1	A1	314	C
1	A1	316	A
1	A1	320	U
1	A1	321	C
1	A1	322	G
1	A1	323	A
1	A1	324	U

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Mol	Chain	Res	Type
1	A1	327	U
1	A1	330	G
1	A1	331	A
1	A1	332	U
1	A1	333	A
1	A1	334	G
1	A1	335	U
1	A1	337	G
1	A1	338	C
1	A1	340	U
1	A1	341	A
1	A1	350	U
1	A1	351	C
1	A1	352	A
1	A1	354	C
1	A1	359	A
1	A1	360	A
1	A1	361	C
1	A1	365	G
1	A1	366	A
1	A1	368	U
1	A1	369	A
1	A1	370	A
1	A1	373	G
1	A1	374	U
1	A1	375	U
1	A1	376	C
1	A1	378	A
1	A1	379	U
1	A1	380	U
1	A1	381	C
1	A1	382	C
1	A1	383	G
1	A1	385	A
1	A1	387	A
1	A1	390	G
1	A1	393	C
1	A1	394	C
1	A1	395	U
1	A1	396	G
1	A1	399	A
1	A1	400	A

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Mol	Chain	Res	Type
1	A1	401	A
1	A1	402	C
1	A1	403	G
1	A1	404	G
1	A1	406	U
1	A1	411	C
1	A1	415	C
1	A1	416	A
1	A1	417	A
1	A1	418	G
1	A1	419	G
1	A1	421	A
1	A1	424	C
1	A1	425	A
1	A1	426	G
1	A1	427	C
1	A1	428	A
1	A1	434	G
1	A1	437	A
1	A1	438	A
1	A1	439	U
1	A1	440	U
1	A1	441	A
1	A1	444	C
1	A1	445	A
1	A1	446	A
1	A1	447	U
1	A1	448	C
1	A1	449	C
1	A1	451	A
1	A1	452	A
1	A1	453	U
1	A1	454	U
1	A1	455	C
1	A1	458	G
1	A1	459	G
1	A1	462	G
1	A1	464	A
1	A1	467	G
1	A1	468	A
1	A1	469	C
1	A1	470	A

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Mol	Chain	Res	Type
1	A1	475	A
1	A1	477	A
1	A1	482	U
1	A1	485	A
1	A1	486	G
1	A1	487	G
1	A1	488	G
1	A1	489	C
1	A1	490	C
1	A1	493	U
1	A1	494	U
1	A1	495	C
1	A1	496	G
1	A1	498	G
1	A1	500	C
1	A1	504	U
1	A1	505	A
1	A1	506	A
1	A1	510	G
1	A1	511	A
1	A1	512	A
1	A1	513	U
1	A1	514	G
1	A1	515	A
1	A1	516	G
1	A1	517	U
1	A1	519	C
1	A1	521	A
1	A1	522	U
1	A1	523	G
1	A1	524	U
1	A1	526	A
1	A1	527	A
1	A1	528	U
1	A1	529	A
1	A1	530	C
1	A1	531	C
1	A1	533	U
1	A1	535	A
1	A1	537	G
1	A1	538	A
1	A1	539	G

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Mol	Chain	Res	Type
1	A1	540	G
1	A1	541	A
1	A1	542	A
1	A1	543	C
1	A1	544	A
1	A1	545	A
1	A1	546	U
1	A1	548	G
1	A1	550	A
1	A1	551	G
1	A1	554	C
1	A1	555	A
1	A1	556	A
1	A1	557	G
1	A1	558	U
1	A1	560	U
1	A1	561	G
1	A1	563	U
1	A1	564	G
1	A1	565	C
1	A1	568	G
1	A1	570	A
1	A1	572	C
1	A1	574	G
1	A1	578	U
1	A1	579	A
1	A1	580	A
1	A1	585	A
1	A1	594	A
1	A1	595	G
1	A1	596	C
1	A1	599	A
1	A1	601	A
1	A1	602	U
1	A1	605	A
1	A1	607	G
1	A1	608	U
1	A1	609	U
1	A1	610	G
1	A1	611	U
1	A1	612	U
1	A1	614	C

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Mol	Chain	Res	Type
1	A1	615	A
1	A1	616	G
1	A1	619	A
1	A1	620	A
1	A1	622	A
1	A1	623	A
1	A1	624	G
1	A1	626	U
1	A1	630	A
1	A1	633	U
1	A1	635	A
1	A1	638	U
1	A1	639	U
1	A1	640	U
1	A1	647	G
1	A1	649	U
1	A1	650	U
1	A1	653	C
1	A1	656	G
1	A1	659	C
1	A1	660	G
1	A1	662	U
1	A1	663	U
1	A1	665	U
1	A1	666	U
1	A1	667	U
1	A1	681	U
1	A1	682	C
1	A1	683	C
1	A1	685	A
1	A1	686	C
1	A1	691	C
1	A1	692	C
1	A1	693	U
1	A1	694	U
1	A1	696	C
1	A1	697	C
1	A1	698	U
1	A1	700	C
1	A1	702	G
1	A1	703	G
1	A1	705	U

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Mol	Chain	Res	Type
1	A1	708	C
1	A1	709	C
1	A1	710	U
1	A1	713	A
1	A1	714	G
1	A1	715	U
1	A1	718	U
1	A1	719	U
1	A1	720	G
1	A1	721	U
1	A1	722	G
1	A1	725	U
1	A1	726	C
1	A1	727	U
1	A1	728	U
1	A1	729	G
1	A1	731	C
1	A1	732	G
1	A1	733	A
1	A1	734	A
1	A1	735	C
1	A1	736	C
1	A1	737	A
1	A1	738	G
1	A1	739	G
1	A1	742	U
1	A1	743	U
1	A1	744	U
1	A1	750	U
1	A1	751	G
1	A1	754	A
1	A1	756	A
1	A1	765	G
1	A1	766	U
1	A1	767	U
1	A1	774	A
1	A1	775	G
1	A1	778	G
1	A1	779	U
1	A1	780	A
1	A1	781	U
1	A1	782	U

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Mol	Chain	Res	Type
1	A1	783	G
1	A1	787	G
1	A1	789	A
1	A1	790	U
1	A1	793	A
1	A1	794	U
1	A1	803	A
1	A1	808	U
1	A1	811	A
1	A1	812	A
1	A1	813	U
1	A1	814	A
1	A1	815	G
1	A1	816	G
1	A1	818	C
1	A1	819	G
1	A1	820	U
1	A1	821	U
1	A1	822	U
1	A1	823	G
1	A1	824	G
1	A1	825	U
1	A1	826	U
1	A1	828	U
1	A1	829	A
1	A1	830	U
1	A1	831	U
1	A1	832	U
1	A1	834	G
1	A1	839	U
1	A1	840	U
1	A1	841	U
1	A1	842	C
1	A1	844	A
1	A1	847	A
1	A1	848	C
1	A1	850	A
1	A1	856	A
1	A1	857	U
1	A1	858	G
1	A1	860	U
1	A1	861	U

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Mol	Chain	Res	Type
1	A1	862	A
1	A1	863	A
1	A1	864	U
1	A1	865	A
1	A1	872	G
1	A1	873	U
1	A1	876	G
1	A1	880	C
1	A1	881	A
1	A1	883	C
1	A1	886	U
1	A1	888	U
1	A1	891	A
1	A1	893	U
1	A1	894	U
1	A1	896	U
1	A1	897	C
1	A1	899	G
1	A1	901	G
1	A1	902	G
1	A1	903	U
1	A1	904	G
1	A1	905	A
1	A1	906	A
1	A1	909	U
1	A1	910	C
1	A1	911	U
1	A1	912	U
1	A1	913	G
1	A1	914	G
1	A1	915	A
1	A1	916	U
1	A1	920	U
1	A1	922	G
1	A1	923	A
1	A1	927	C
1	A1	929	A
1	A1	932	U
1	A1	933	A
1	A1	934	C
1	A1	935	U
1	A1	938	G

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Mol	Chain	Res	Type
1	A1	939	A
1	A1	942	G
1	A1	943	C
1	A1	944	A
1	A1	952	A
1	A1	959	U
1	A1	960	U
1	A1	961	U
1	A1	964	U
1	A1	965	U
1	A1	966	A
1	A1	967	A
1	A1	975	C
1	A1	976	G
1	A1	977	A
1	A1	978	A
1	A1	979	A
1	A1	981	U
1	A1	987	G
1	A1	988	A
1	A1	992	A
1	A1	993	A
1	A1	995	A
1	A1	996	U
1	A1	998	A
1	A1	1000	C
1	A1	1003	A
1	A1	1004	U
1	A1	1005	A
1	A1	1007	C
1	A1	1008	G
1	A1	1010	C
1	A1	1019	A
1	A1	1027	A
1	A1	1028	C
1	A1	1029	U
1	A1	1030	A
1	A1	1032	G
1	A1	1033	C
1	A1	1036	A
1	A1	1039	A
1	A1	1040	G

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Mol	Chain	Res	Type
1	A1	1044	U
1	A1	1045	C
1	A1	1046	G
1	A1	1048	G
1	A1	1049	U
1	A1	1057	U
1	A1	1058	U
1	A1	1059	U
1	A1	1060	U
1	A1	1066	C
1	A1	1071	U
1	A1	1072	C
1	A1	1073	G
1	A1	1074	G
1	A1	1075	C
1	A1	1077	C
1	A1	1079	U
1	A1	1080	U
1	A1	1082	C
1	A1	1087	A
1	A1	1089	U
1	A1	1090	C
1	A1	1091	A
1	A1	1092	A
1	A1	1093	A
1	A1	1094	G
1	A1	1095	U
1	A1	1096	C
1	A1	1097	U
1	A1	1098	U
1	A1	1099	U
1	A1	1100	G
1	A1	1101	G
1	A1	1103	U
1	A1	1107	G
1	A1	1108	G
1	A1	1109	G
1	A1	1110	G
1	A1	1111	G
1	A1	1112	G
1	A1	1113	A
1	A1	1114	G

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Mol	Chain	Res	Type
1	A1	1115	U
1	A1	1119	G
1	A1	1123	C
1	A1	1124	A
1	A1	1126	G
1	A1	1129	U
1	A1	1136	U
1	A1	1137	A
1	A1	1138	A
1	A1	1139	A
1	A1	1140	G
1	A1	1141	G
1	A1	1142	A
1	A1	1143	A
1	A1	1145	U
1	A1	1146	G
1	A1	1147	A
1	A1	1149	G
1	A1	1150	G
1	A1	1151	A
1	A1	1152	A
1	A1	1153	G
1	A1	1154	G
1	A1	1158	C
1	A1	1160	A
1	A1	1161	C
1	A1	1162	C
1	A1	1166	A
1	A1	1167	G
1	A1	1168	U
1	A1	1178	G
1	A1	1179	G
1	A1	1181	U
1	A1	1185	U
1	A1	1186	U
1	A1	1189	A
1	A1	1190	C
1	A1	1191	U
1	A1	1193	A
1	A1	1194	A
1	A1	1196	A
1	A1	1197	C

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Mol	Chain	Res	Type
1	A1	1198	G
1	A1	1199	G
1	A1	1200	G
1	A1	1201	G
1	A1	1202	A
1	A1	1203	A
1	A1	1204	A
1	A1	1205	C
1	A1	1206	U
1	A1	1207	C
1	A1	1208	A
1	A1	1211	A
1	A1	1217	A
1	A1	1218	G
1	A1	1219	A
1	A1	1220	C
1	A1	1222	C
1	A1	1225	U
1	A1	1228	G
1	A1	1229	G
1	A1	1230	A
1	A1	1231	U
1	A1	1232	U
1	A1	1234	A
1	A1	1235	C
1	A1	1238	A
1	A1	1239	U
1	A1	1240	U
1	A1	1242	A
1	A1	1243	G
1	A1	1244	A
1	A1	1245	G
1	A1	1248	C
1	A1	1254	U
1	A1	1255	G
1	A1	1256	A
1	A1	1257	U
1	A1	1258	U
1	A1	1259	U
1	A1	1260	U
1	A1	1264	G
1	A1	1266	U

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Mol	Chain	Res	Type
1	A1	1268	G
1	A1	1270	G
1	A1	1273	G
1	A1	1274	C
1	A1	1275	A
1	A1	1276	U
1	A1	1280	C
1	A1	1283	U
1	A1	1284	C
1	A1	1286	U
1	A1	1287	A
1	A1	1288	G
1	A1	1290	U
1	A1	1297	G
1	A1	1302	U
1	A1	1306	C
1	A1	1310	U
1	A1	1311	U
1	A1	1312	A
1	A1	1314	U
1	A1	1315	U
1	A1	1316	G
1	A1	1321	A
1	A1	1324	G
1	A1	1325	A
1	A1	1326	A
1	A1	1331	A
1	A1	1332	C
1	A1	1333	C
1	A1	1335	U
1	A1	1336	A
1	A1	1337	A
1	A1	1340	U
1	A1	1341	A
1	A1	1342	C
1	A1	1345	A
1	A1	1346	A
1	A1	1347	U
1	A1	1349	G
1	A1	1350	U
1	A1	1351	G
1	A1	1352	G

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Mol	Chain	Res	Type
1	A1	1353	U
1	A1	1354	G
1	A1	1355	C
1	A1	1358	G
1	A1	1359	C
1	A1	1360	A
1	A1	1361	U
1	A1	1362	U
1	A1	1363	U
1	A1	1364	G
1	A1	1365	C
1	A1	1366	U
1	A1	1367	G
1	A1	1368	G
1	A1	1369	U
1	A1	1371	A
1	A1	1373	C
1	A1	1374	C
1	A1	1378	U
1	A1	1379	C
1	A1	1380	U
1	A1	1383	G
1	A1	1384	A
1	A1	1388	A
1	A1	1390	U
1	A1	1391	A
1	A1	1392	U
1	A1	1397	U
1	A1	1398	U
1	A1	1399	C
1	A1	1400	A
1	A1	1401	A
1	A1	1402	G
1	A1	1407	U
1	A1	1408	G
1	A1	1409	G
1	A1	1410	A
1	A1	1412	G
1	A1	1413	U
1	A1	1414	U
1	A1	1415	U
1	A1	1418	G

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Mol	Chain	Res	Type
1	A1	1419	G
1	A1	1420	C
1	A1	1422	A
1	A1	1427	A
1	A1	1428	G
1	A1	1429	G
1	A1	1431	C
1	A1	1432	U
1	A1	1433	G
1	A1	1434	U
1	A1	1435	G
1	A1	1436	A
1	A1	1438	G
1	A1	1443	U
1	A1	1445	G
1	A1	1446	A
1	A1	1447	C
1	A1	1448	G
1	A1	1449	U
1	A1	1450	U
1	A1	1453	G
1	A1	1454	G
1	A1	1455	G
1	A1	1456	C
1	A1	1458	G
1	A1	1459	C
1	A1	1460	A
1	A1	1461	C
1	A1	1466	G
1	A1	1467	C
1	A1	1468	U
1	A1	1469	A
1	A1	1471	A
1	A1	1472	C
1	A1	1473	U
1	A1	1474	G
1	A1	1477	G
1	A1	1478	G
1	A1	1479	A
1	A1	1481	C
1	A1	1482	C
1	A1	1483	A

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Mol	Chain	Res	Type
1	A1	1484	G
1	A1	1485	C
1	A1	1486	G
1	A1	1490	C
1	A1	1491	U
1	A1	1492	A
1	A1	1493	A
1	A1	1494	C
1	A1	1503	A
1	A1	1505	A
1	A1	1506	G
1	A1	1509	C
1	A1	1510	U
1	A1	1514	U
1	A1	1515	A
1	A1	1516	A
1	A1	1517	U
1	A1	1518	C
1	A1	1519	U
1	A1	1521	G
1	A1	1522	U
1	A1	1523	G
1	A1	1524	A
1	A1	1533	C
1	A1	1534	G
1	A1	1535	U
1	A1	1536	G
1	A1	1537	C
1	A1	1538	U
1	A1	1539	G
1	A1	1540	G
1	A1	1541	G
1	A1	1542	G
1	A1	1545	A
1	A1	1547	A
1	A1	1548	G
1	A1	1550	A
1	A1	1551	U
1	A1	1553	G
1	A1	1554	U
1	A1	1555	A
1	A1	1556	A

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Mol	Chain	Res	Type
1	A1	1557	U
1	A1	1558	U
1	A1	1559	A
1	A1	1560	U
1	A1	1565	C
1	A1	1568	C
1	A1	1570	A
1	A1	1572	G
1	A1	1573	A
1	A1	1574	G
1	A1	1575	G
1	A1	1576	A
1	A1	1581	C
1	A1	1583	A
1	A1	1584	G
1	A1	1587	A
1	A1	1590	G
1	A1	1591	C
1	A1	1592	A
1	A1	1599	C
1	A1	1600	A
1	A1	1601	G
1	A1	1602	C
1	A1	1605	G
1	A1	1607	G
1	A1	1609	U
1	A1	1610	G
1	A1	1611	A
1	A1	1613	U
1	A1	1614	A
1	A1	1615	C
1	A1	1616	G
1	A1	1618	C
1	A1	1623	C
1	A1	1624	C
1	A1	1625	C
1	A1	1627	U
1	A1	1628	U
1	A1	1630	U
1	A1	1631	A
1	A1	1632	C
1	A1	1633	A

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Mol	Chain	Res	Type
1	A1	1634	C
1	A1	1635	A
1	A1	1636	C
1	A1	1637	C
1	A1	1638	G
1	A1	1639	C
1	A1	1642	G
1	A1	1644	C
1	A1	1645	G
1	A1	1646	C
1	A1	1650	U
1	A1	1654	G
1	A1	1656	U
1	A1	1657	U
1	A1	1658	G
1	A1	1659	A
1	A1	1664	C
1	A1	1665	U
1	A1	1667	A
1	A1	1668	G
1	A1	1673	G
1	A1	1674	C
1	A1	1675	C
1	A1	1676	U
1	A1	1677	C
1	A1	1678	A
1	A1	1680	G
1	A1	1681	A
1	A1	1682	U
1	A1	1683	C
1	A1	1684	U
1	A1	1685	G
1	A1	1688	U
1	A1	1689	A
1	A1	1691	A
1	A1	1692	G
1	A1	1693	A
1	A1	1695	G
1	A1	1696	G
1	A1	1698	G
1	A1	1700	C
1	A1	1701	A

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Mol	Chain	Res	Type
1	A1	1706	C
1	A1	1707	A
1	A1	1710	U
1	A1	1711	C
1	A1	1716	C
1	A1	1719	A
1	A1	1720	G
1	A1	1722	A
1	A1	1728	A
1	A1	1731	A
1	A1	1739	C
1	A1	1742	U
1	A1	1744	A
1	A1	1746	A
1	A1	1748	G
1	A1	1754	A
1	A1	1755	A
1	A1	1757	G
1	A1	1758	U
1	A1	1759	C
1	A1	1760	G
1	A1	1762	A
1	A1	1763	A
1	A1	1764	C
1	A1	1766	A
1	A1	1767	G
1	A1	1768	G
1	A1	1769	U
1	A1	1770	U
1	A1	1772	C
1	A1	1773	C
1	A1	1774	G
1	A1	1777	G
1	A1	1779	U
1	A1	1780	G
1	A1	1782	A
1	A1	1783	C
1	A1	1788	G
1	A1	1792	G
1	A1	1793	G
1	A1	1794	A
1	A1	1795	U

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Mol	Chain	Res	Type
1	A1	1797	A
1	A1	1798	U
29	B1	6	A
29	B1	9	U
29	B1	12	A
29	B1	14	U
29	B1	15	C
29	B1	16	A
29	B1	20	A
29	B1	21	G
29	B1	25	U
29	B1	29	C
29	B1	32	U
29	B1	35	A
29	B1	38	U
29	B1	40	A
29	B1	43	A
29	B1	44	U
29	B1	47	C
29	B1	50	U
29	B1	53	G
29	B1	56	G
29	B1	58	G
29	B1	59	G
29	B1	60	A
29	B1	62	A
29	B1	65	A
29	B1	66	A
29	B1	68	C
29	B1	69	C
29	B1	70	A
29	B1	71	A
29	B1	72	C
29	B1	73	C
29	B1	74	G
29	B1	76	G
29	B1	77	A
29	B1	81	C
29	B1	83	U
29	B1	85	A
29	B1	87	U
29	B1	88	A

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Mol	Chain	Res	Type
29	B1	89	A
29	B1	92	G
29	B1	93	C
29	B1	94	G
29	B1	96	G
29	B1	97	U
29	B1	98	G
29	B1	99	A
29	B1	100	A
29	B1	102	C
29	B1	103	G
29	B1	105	C
29	B1	106	A
29	B1	108	A
29	B1	109	A
29	B1	110	G
29	B1	113	C
29	B1	114	A
29	B1	117	U
29	B1	118	U
29	B1	119	U
29	B1	120	G
29	B1	121	A
29	B1	125	C
29	B1	126	U
29	B1	127	G
29	B1	131	C
29	B1	133	U
29	B1	134	U
29	B1	136	G
29	B1	138	U
29	B1	140	C
29	B1	141	C
29	B1	144	A
29	B1	145	G
29	B1	146	U
29	B1	147	U
29	B1	148	G
29	B1	149	U
29	B1	150	A
29	B1	152	U
29	B1	154	U

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Mol	Chain	Res	Type
29	B1	155	G
29	B1	156	G
29	B1	157	A
29	B1	158	G
29	B1	159	A
29	B1	160	G
29	B1	161	G
29	B1	164	A
29	B1	167	U
29	B1	169	U
29	B1	170	G
29	B1	171	G
29	B1	172	G
29	B1	173	G
29	B1	175	C
29	B1	176	G
29	B1	177	U
29	B1	178	U
29	B1	179	C
29	B1	182	U
29	B1	187	A
29	B1	188	U
29	B1	190	U
29	B1	191	U
29	B1	196	G
29	B1	197	G
29	B1	199	A
29	B1	201	A
29	B1	204	A
29	B1	205	C
29	B1	209	A
29	B1	210	U
29	B1	211	A
29	B1	214	G
29	B1	215	G
29	B1	217	U
29	B1	218	G
29	B1	219	A
29	B1	220	G
29	B1	221	A
29	B1	223	U
29	B1	224	C

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Mol	Chain	Res	Type
29	B1	225	C
29	B1	227	G
29	B1	230	U
29	B1	231	G
29	B1	237	G
29	B1	238	A
29	B1	239	G
29	B1	240	U
29	B1	241	G
29	B1	242	C
29	B1	244	G
29	B1	245	U
29	B1	246	U
29	B1	247	C
29	B1	248	U
29	B1	249	U
29	B1	250	U
29	B1	251	G
29	B1	252	U
29	B1	253	A
29	B1	255	A
29	B1	256	G
29	B1	257	U
29	B1	258	G
29	B1	259	C
29	B1	260	C
29	B1	262	U
29	B1	263	C
29	B1	264	G
29	B1	265	A
29	B1	266	A
29	B1	267	G
29	B1	269	G
29	B1	282	G
29	B1	283	G
29	B1	284	A
29	B1	285	A
29	B1	289	A
29	B1	292	U
29	B1	293	C
29	B1	295	A
29	B1	297	G

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Mol	Chain	Res	Type
29	B1	298	U
29	B1	301	G
29	B1	304	G
29	B1	305	U
29	B1	306	A
29	B1	307	A
29	B1	311	C
29	B1	315	C
29	B1	316	U
29	B1	317	A
29	B1	318	A
29	B1	319	A
29	B1	323	A
29	B1	324	A
29	B1	325	A
29	B1	326	U
29	B1	327	A
29	B1	328	U
29	B1	329	U
29	B1	330	G
29	B1	331	G
29	B1	332	C
29	B1	333	G
29	B1	335	G
29	B1	338	A
29	B1	339	C
29	B1	340	C
29	B1	341	G
29	B1	342	A
29	B1	345	G
29	B1	346	C
29	B1	349	A
29	B1	350	C
29	B1	351	A
29	B1	352	A
29	B1	354	U
29	B1	362	U
29	B1	364	G
29	B1	368	G
29	B1	371	G
29	B1	374	A
29	B1	375	A

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Mol	Chain	Res	Type
29	B1	376	G
29	B1	377	A
29	B1	378	A
29	B1	379	C
29	B1	380	U
29	B1	381	U
29	B1	382	U
29	B1	383	G
29	B1	384	A
29	B1	385	A
29	B1	386	A
29	B1	387	A
29	B1	390	G
29	B1	391	A
29	B1	392	G
29	B1	395	A
29	B1	396	A
29	B1	397	A
29	B1	398	A
29	B1	399	A
29	B1	400	G
29	B1	401	U
29	B1	402	A
29	B1	403	C
29	B1	404	G
29	B1	419	G
29	B1	421	G
29	B1	422	A
29	B1	423	A
29	B1	424	G
29	B1	425	G
29	B1	428	A
29	B1	429	U
29	B1	431	U
29	B1	432	G
29	B1	439	C
29	B1	493	G
29	B1	495	G
29	B1	500	C
29	B1	504	A
29	B1	509	U
29	B1	510	G

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Mol	Chain	Res	Type
29	B1	511	G
29	B1	514	G
29	B1	515	C
29	B1	516	A
29	B1	517	G
29	B1	518	G
29	B1	519	A
29	B1	520	U
29	B1	521	A
29	B1	523	A
29	B1	524	U
29	B1	525	C
29	B1	528	U
29	B1	529	A
29	B1	533	A
29	B1	536	U
29	B1	537	A
29	B1	538	G
29	B1	539	C
29	B1	540	U
29	B1	541	U
29	B1	544	C
29	B1	546	C
29	B1	547	G
29	B1	548	G
29	B1	549	U
29	B1	550	A
29	B1	556	U
29	B1	559	A
29	B1	560	G
29	B1	561	C
29	B1	562	C
29	B1	563	U
29	B1	564	G
29	B1	565	U
29	B1	566	G
29	B1	571	U
29	B1	574	U
29	B1	575	G
29	B1	576	C
29	B1	577	C
29	B1	578	A

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Mol	Chain	Res	Type
29	B1	579	G
29	B1	580	C
29	B1	584	G
29	B1	586	C
29	B1	588	G
29	B1	590	G
29	B1	591	G
29	B1	592	A
29	B1	593	C
29	B1	594	U
29	B1	595	G
29	B1	597	G
29	B1	603	A
29	B1	604	G
29	B1	605	U
29	B1	606	C
29	B1	607	A
29	B1	608	A
29	B1	609	G
29	B1	610	G
29	B1	611	A
29	B1	612	U
29	B1	618	C
29	B1	619	A
29	B1	620	U
29	B1	621	A
29	B1	622	A
29	B1	624	G
29	B1	625	G
29	B1	626	U
29	B1	628	A
29	B1	630	A
29	B1	632	G
29	B1	636	C
29	B1	637	C
29	B1	642	U
29	B1	645	A
29	B1	646	A
29	B1	647	A
29	B1	648	C
29	B1	649	A
29	B1	650	C

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Mol	Chain	Res	Type
29	B1	651	G
29	B1	656	A
29	B1	657	A
29	B1	661	G
29	B1	666	A
29	B1	667	C
29	B1	668	G
29	B1	669	U
29	B1	674	G
29	B1	675	C
29	B1	677	A
29	B1	679	U
29	B1	680	G
29	B1	681	U
29	B1	682	U
29	B1	683	U
29	B1	685	G
29	B1	691	A
29	B1	692	A
29	B1	694	C
29	B1	697	A
29	B1	698	U
29	B1	699	A
29	B1	705	A
29	B1	706	A
29	B1	712	G
29	B1	714	G
29	B1	715	A
29	B1	716	A
29	B1	717	C
29	B1	718	G
29	B1	719	U
29	B1	720	A
29	B1	721	G
29	B1	722	G
29	B1	723	U
29	B1	724	U
29	B1	725	G
29	B1	726	G
29	B1	727	G
29	B1	728	G
29	B1	731	U

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Mol	Chain	Res	Type
29	B1	732	C
29	B1	733	G
29	B1	734	C
29	B1	735	A
29	B1	736	A
29	B1	738	A
29	B1	741	U
29	B1	743	C
29	B1	744	A
29	B1	745	C
29	B1	746	A
29	B1	747	A
29	B1	748	U
29	B1	749	C
29	B1	751	A
29	B1	752	C
29	B1	753	C
29	B1	756	U
29	B1	757	C
29	B1	758	C
29	B1	759	U
29	B1	761	A
29	B1	762	U
29	B1	764	U
29	B1	765	C
29	B1	766	U
29	B1	767	U
29	B1	768	C
29	B1	769	G
29	B1	770	G
29	B1	771	A
29	B1	772	U
29	B1	774	G
29	B1	776	U
29	B1	777	U
29	B1	778	U
29	B1	779	G
29	B1	781	G
29	B1	782	U
29	B1	784	A
29	B1	785	G
29	B1	786	A

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Mol	Chain	Res	Type
29	B1	787	G
29	B1	788	C
29	B1	791	A
29	B1	794	U
29	B1	798	G
29	B1	802	C
29	B1	803	C
29	B1	805	G
29	B1	806	A
29	B1	807	A
29	B1	808	A
29	B1	809	G
29	B1	810	A
29	B1	815	G
29	B1	817	A
29	B1	822	G
29	B1	825	U
29	B1	826	G
29	B1	828	A
29	B1	830	A
29	B1	831	G
29	B1	834	U
29	B1	835	G
29	B1	836	A
29	B1	837	A
29	B1	838	G
29	B1	841	A
29	B1	845	G
29	B1	846	A
29	B1	847	A
29	B1	857	G
29	B1	858	A
29	B1	859	G
29	B1	860	G
29	B1	861	C
29	B1	863	C
29	B1	870	G
29	B1	871	U
29	B1	874	U
29	B1	875	G
29	B1	879	U
29	B1	880	G

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Mol	Chain	Res	Type
29	B1	882	A
29	B1	884	A
29	B1	886	C
29	B1	887	G
29	B1	888	A
29	B1	892	U
29	B1	894	G
29	B1	895	A
29	B1	896	A
29	B1	897	U
29	B1	901	G
29	B1	903	U
29	B1	907	G
29	B1	908	G
29	B1	909	G
29	B1	911	C
29	B1	913	A
29	B1	914	A
29	B1	915	A
29	B1	916	G
29	B1	917	A
29	B1	920	A
29	B1	921	A
29	B1	922	U
29	B1	924	G
29	B1	933	A
29	B1	934	G
29	B1	937	G
29	B1	939	U
29	B1	941	G
29	B1	943	U
29	B1	944	C
29	B1	945	C
29	B1	947	G
29	B1	949	C
29	B1	952	A
29	B1	953	G
29	B1	954	U
29	B1	957	C
29	B1	958	C
29	B1	960	U
29	B1	961	C

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Mol	Chain	Res	Type
29	B1	962	A
29	B1	963	G
29	B1	967	A
29	B1	970	A
29	B1	971	G
29	B1	974	G
29	B1	975	C
29	B1	978	G
29	B1	979	U
29	B1	980	A
29	B1	981	U
29	B1	984	G
29	B1	987	U
29	B1	994	G
29	B1	995	U
29	B1	996	A
29	B1	1000	C
29	B1	1002	A
29	B1	1006	A
29	B1	1007	U
29	B1	1010	G
29	B1	1011	A
29	B1	1013	G
29	B1	1014	U
29	B1	1015	U
29	B1	1017	C
29	B1	1019	G
29	B1	1024	G
29	B1	1026	A
29	B1	1027	A
29	B1	1030	A
29	B1	1033	U
29	B1	1036	A
29	B1	1038	C
29	B1	1039	U
29	B1	1041	U
29	B1	1042	U
29	B1	1043	C
29	B1	1047	A
29	B1	1048	A
29	B1	1049	C
29	B1	1053	A

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Mol	Chain	Res	Type
29	B1	1060	U
29	B1	1061	A
29	B1	1063	G
29	B1	1064	A
29	B1	1065	A
29	B1	1066	G
29	B1	1067	U
29	B1	1068	C
29	B1	1071	U
29	B1	1073	U
29	B1	1074	U
29	B1	1075	A
29	B1	1077	U
29	B1	1078	U
29	B1	1079	A
29	B1	1080	A
29	B1	1081	U
29	B1	1082	U
29	B1	1085	A
29	B1	1086	C
29	B1	1093	A
29	B1	1094	U
29	B1	1095	U
29	B1	1096	U
29	B1	1097	G
29	B1	1098	A
29	B1	1100	U
29	B1	1101	G
29	B1	1102	A
29	B1	1103	A
29	B1	1104	G
29	B1	1105	A
29	B1	1109	U
29	B1	1110	U
29	B1	1113	G
29	B1	1115	G
29	B1	1116	G
29	B1	1117	G
29	B1	1119	C
29	B1	1120	A
29	B1	1123	U
29	B1	1124	U

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Mol	Chain	Res	Type
29	B1	1128	U
29	B1	1129	A
29	B1	1130	A
29	B1	1131	G
29	B1	1132	C
29	B1	1133	A
29	B1	1136	A
29	B1	1139	G
29	B1	1140	G
29	B1	1142	G
29	B1	1143	A
29	B1	1144	U
29	B1	1145	G
29	B1	1149	G
29	B1	1151	U
29	B1	1152	G
29	B1	1153	A
29	B1	1154	A
29	B1	1155	C
29	B1	1157	G
29	B1	1158	A
29	B1	1159	A
29	B1	1160	C
29	B1	1162	U
29	B1	1163	A
29	B1	1168	U
29	B1	1169	A
29	B1	1175	C
29	B1	1176	C
29	B1	1177	G
29	B1	1178	G
29	B1	1179	A
29	B1	1180	A
29	B1	1181	U
29	B1	1184	A
29	B1	1187	C
29	B1	1190	A
29	B1	1191	U
29	B1	1192	C
29	B1	1193	A
29	B1	1194	G
29	B1	1195	A

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Mol	Chain	Res	Type
29	B1	1196	C
29	B1	1197	A
29	B1	1198	C
29	B1	1199	C
29	B1	1200	A
29	B1	1201	C
29	B1	1202	A
29	B1	1203	A
29	B1	1205	A
29	B1	1207	G
29	B1	1208	U
29	B1	1209	G
29	B1	1211	U
29	B1	1212	A
29	B1	1213	G
29	B1	1214	U
29	B1	1217	A
29	B1	1218	U
29	B1	1219	C
29	B1	1220	U
29	B1	1222	G
29	B1	1223	A
29	B1	1224	C
29	B1	1225	A
29	B1	1226	G
29	B1	1231	A
29	B1	1232	C
29	B1	1233	G
29	B1	1234	G
29	B1	1235	U
29	B1	1236	G
29	B1	1237	G
29	B1	1238	C
29	B1	1242	G
29	B1	1243	G
29	B1	1244	A
29	B1	1245	A
29	B1	1246	G
29	B1	1247	U
29	B1	1248	C
29	B1	1250	G
29	B1	1252	A

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Mol	Chain	Res	Type
29	B1	1253	U
29	B1	1254	C
29	B1	1256	G
29	B1	1257	C
29	B1	1258	U
29	B1	1259	A
29	B1	1260	A
29	B1	1261	G
29	B1	1262	G
29	B1	1263	A
29	B1	1264	G
29	B1	1265	U
29	B1	1267	U
29	B1	1269	U
29	B1	1270	A
29	B1	1272	C
29	B1	1273	A
29	B1	1277	C
29	B1	1278	A
29	B1	1279	C
29	B1	1281	G
29	B1	1285	G
29	B1	1286	A
29	B1	1287	A
29	B1	1288	U
29	B1	1289	G
29	B1	1290	A
29	B1	1291	A
29	B1	1292	C
29	B1	1294	A
29	B1	1295	G
29	B1	1296	C
29	B1	1297	C
29	B1	1299	U
29	B1	1303	A
29	B1	1305	U
29	B1	1307	G
29	B1	1308	A
29	B1	1309	U
29	B1	1310	G
29	B1	1313	G
29	B1	1314	C

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Mol	Chain	Res	Type
29	B1	1315	U
29	B1	1316	C
29	B1	1317	A
29	B1	1318	A
29	B1	1320	C
29	B1	1323	G
29	B1	1324	U
29	B1	1325	U
29	B1	1326	A
29	B1	1330	A
29	B1	1331	U
29	B1	1332	A
29	B1	1342	C
29	B1	1348	U
29	B1	1349	G
29	B1	1350	A
29	B1	1351	U
29	B1	1353	U
29	B1	1354	G
29	B1	1355	A
29	B1	1356	U
29	B1	1365	G
29	B1	1367	G
29	B1	1368	U
29	B1	1370	G
29	B1	1371	G
29	B1	1378	U
29	B1	1379	G
29	B1	1380	G
29	B1	1384	U
29	B1	1385	C
29	B1	1386	A
29	B1	1389	G
29	B1	1390	A
29	B1	1392	G
29	B1	1394	A
29	B1	1395	G
29	B1	1398	U
29	B1	1399	A
29	B1	1400	G
29	B1	1404	G
29	B1	1405	U

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Mol	Chain	Res	Type
29	B1	1406	A
29	B1	1407	A
29	B1	1408	G
29	B1	1410	U
29	B1	1411	C
29	B1	1412	G
29	B1	1416	C
29	B1	1418	A
29	B1	1419	A
29	B1	1429	G
29	B1	1430	U
29	B1	1431	G
29	B1	1434	G
29	B1	1435	A
29	B1	1437	C
29	B1	1440	G
29	B1	1441	G
29	B1	1442	U
29	B1	1445	U
29	B1	1446	A
29	B1	1450	G
29	B1	1453	A
29	B1	1455	U
29	B1	1456	A
29	B1	1460	A
29	B1	1462	A
29	B1	1465	A
29	B1	1467	A
29	B1	1468	A
29	B1	1469	C
29	B1	1470	U
29	B1	1478	C
29	B1	1479	U
29	B1	1480	G
29	B1	1481	A
29	B1	1482	A
29	B1	1483	G
29	B1	1484	U
29	B1	1485	G
29	B1	1488	G
29	B1	1493	G
29	B1	1495	U

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Mol	Chain	Res	Type
29	B1	1496	C
29	B1	1497	C
29	B1	1501	U
29	B1	1503	A
29	B1	1504	A
29	B1	1505	C
29	B1	1506	A
29	B1	1507	G
29	B1	1508	C
29	B1	1509	A
29	B1	1510	G
29	B1	1511	U
29	B1	1520	G
29	B1	1521	G
29	B1	1524	A
29	B1	1525	G
29	B1	1527	C
29	B1	1530	U
29	B1	1531	C
29	B1	1533	U
29	B1	1535	A
29	B1	1536	G
29	B1	1539	A
29	B1	1540	U
29	B1	1542	G
29	B1	1548	C
29	B1	1549	U
29	B1	1551	C
29	B1	1552	G
29	B1	1553	U
29	B1	1554	U
29	B1	1556	C
29	B1	1557	A
29	B1	1558	A
29	B1	1559	A
29	B1	1560	G
29	B1	1567	U
29	B1	1568	U
29	B1	1572	U
29	B1	1575	A
29	B1	1579	C
29	B1	1580	A

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Mol	Chain	Res	Type
29	B1	1581	C
29	B1	1582	C
29	B1	1583	A
29	B1	1584	U
29	B1	1587	A
29	B1	1589	A
29	B1	1593	A
29	B1	1595	U
29	B1	1596	C
29	B1	1601	U
29	B1	1602	A
29	B1	1605	A
29	B1	1606	U
29	B1	1607	U
29	B1	1608	C
29	B1	1609	C
29	B1	1610	G
29	B1	1620	U
29	B1	1622	U
29	B1	1626	U
29	B1	1627	U
29	B1	1628	C
29	B1	1629	U
29	B1	1630	U
29	B1	1631	C
29	B1	1632	A
29	B1	1633	C
29	B1	1634	G
29	B1	1635	G
29	B1	1636	U
29	B1	1638	A
29	B1	1639	C
29	B1	1641	U
29	B1	1642	A
29	B1	1643	A
29	B1	1644	C
29	B1	1645	U
29	B1	1646	G
29	B1	1652	G
29	B1	1653	G
29	B1	1654	A
29	B1	1655	G

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Mol	Chain	Res	Type
29	B1	1656	A
29	B1	1657	C
29	B1	1661	G
29	B1	1667	A
29	B1	1668	G
29	B1	1671	C
29	B1	1672	U
29	B1	1678	G
29	B1	1681	U
29	B1	1682	U
29	B1	1683	A
29	B1	1684	U
29	B1	1685	C
29	B1	1686	U
29	B1	1687	U
29	B1	1688	U
29	B1	1689	U
29	B1	1692	U
29	B1	1694	U
29	B1	1698	C
29	B1	1699	A
29	B1	1701	C
29	B1	1703	U
29	B1	1704	A
29	B1	1706	C
29	B1	1708	C
29	B1	1710	C
29	B1	1713	G
29	B1	1714	A
29	B1	1716	U
29	B1	1717	U
29	B1	1724	U
29	B1	1725	C
29	B1	1726	C
29	B1	1727	G
29	B1	1728	G
29	B1	1729	A
29	B1	1730	G
29	B1	1734	G
29	B1	1735	G
29	B1	1736	G
29	B1	1739	U

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Mol	Chain	Res	Type
29	B1	1740	U
29	B1	1744	G
29	B1	1750	A
29	B1	1754	G
29	B1	1756	C
29	B1	1760	A
29	B1	1762	C
29	B1	1766	G
29	B1	1769	G
29	B1	1773	C
29	B1	1774	C
29	B1	1775	G
29	B1	1779	C
29	B1	1780	G
29	B1	1781	C
29	B1	1782	U
29	B1	1783	U
29	B1	1786	G
29	B1	1787	A
29	B1	1788	C
29	B1	1792	C
29	B1	1793	C
29	B1	1794	G
29	B1	1795	U
29	B1	1796	G
29	B1	1797	A
29	B1	1802	C
29	B1	1803	C
29	B1	1806	A
29	B1	1807	G
29	B1	1808	G
29	B1	1809	A
29	B1	1810	A
29	B1	1812	G
29	B1	1813	A
29	B1	1814	A
29	B1	1815	U
29	B1	1816	A
29	B1	1820	U
29	B1	1821	U
29	B1	1822	C
29	B1	1830	G

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Mol	Chain	Res	Type
29	B1	1834	U
29	B1	1835	A
29	B1	1839	A
29	B1	1840	U
29	B1	1841	A
29	B1	1842	A
29	B1	1844	C
29	B1	1846	C
29	B1	1847	A
29	B1	1849	C
29	B1	1852	G
29	B1	1853	U
29	B1	1855	U
29	B1	1857	C
29	B1	1858	A
29	B1	1859	A
29	B1	1860	G
29	B1	1864	A
29	B1	1871	U
29	B1	1875	G
29	B1	1876	U
29	B1	1877	U
29	B1	1878	G
29	B1	1879	A
29	B1	1880	U
29	B1	1881	A
29	B1	1885	U
29	B1	1886	A
29	B1	1889	G
29	B1	1891	A
29	B1	1895	A
29	B1	1901	A
29	B1	1905	G
29	B1	1906	G
29	B1	1907	C
29	B1	1913	A
29	B1	1914	G
29	B1	1920	U
29	B1	1921	A
29	B1	1925	U
29	B1	1926	C
29	B1	1927	G

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Mol	Chain	Res	Type
29	B1	1928	G
29	B1	1930	A
29	B1	1931	U
29	B1	1932	A
29	B1	1933	A
29	B1	1935	G
29	B1	1941	C
29	B1	1946	A
29	B1	1947	G
29	B1	1948	G
29	B1	1950	U
29	B1	2093	A
29	B1	2095	G
29	B1	2096	A
29	B1	2102	U
29	B1	2105	G
29	B1	2106	A
29	B1	2111	G
29	B1	2112	U
29	B1	2113	A
29	B1	2114	C
29	B1	2115	G
29	B1	2117	A
29	B1	2121	G
29	B1	2122	G
29	B1	2126	A
29	B1	2129	U
29	B1	2130	G
29	B1	2131	A
29	B1	2132	C
29	B1	2137	U
29	B1	2138	A
29	B1	2139	A
29	B1	2144	A
29	B1	2147	A
29	B1	2148	U
29	B1	2149	A
29	B1	2150	G
29	B1	2151	C
29	B1	2152	A
29	B1	2158	A
29	B1	2161	G

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Mol	Chain	Res	Type
29	B1	2168	A
29	B1	2169	G
29	B1	2172	A
29	B1	2173	U
29	B1	2174	G
29	B1	2176	U
29	B1	2178	A
29	B1	2185	G
29	B1	2187	G
29	B1	2188	A
29	B1	2191	U
29	B1	2193	U
29	B1	2194	G
29	B1	2195	C
29	B1	2201	G
29	B1	2205	U
29	B1	2206	G
29	B1	2207	A
29	B1	2208	A
29	B1	2209	U
29	B1	2210	G
29	B1	2211	U
29	B1	2215	A
29	B1	2222	A
29	B1	2223	A
29	B1	2224	A
29	B1	2227	C
29	B1	2237	C
29	B1	2244	A
29	B1	2247	G
29	B1	2248	C
29	B1	2249	G
29	B1	2250	G
29	B1	2252	A
29	B1	2254	U
29	B1	2255	A
29	B1	2256	A
29	B1	2257	C
29	B1	2259	A
29	B1	2260	U
29	B1	2261	G
29	B1	2262	A

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Mol	Chain	Res	Type
29	B1	2263	C
29	B1	2264	U
29	B1	2266	U
29	B1	2270	A
29	B1	2271	A
29	B1	2272	G
29	B1	2273	G
29	B1	2275	A
29	B1	2276	G
29	B1	2277	C
29	B1	2280	A
29	B1	2281	A
29	B1	2282	U
29	B1	2283	G
29	B1	2286	U
29	B1	2288	G
29	B1	2290	C
29	B1	2291	A
29	B1	2292	U
29	B1	2295	A
29	B1	2296	A
29	B1	2297	U
29	B1	2298	U
29	B1	2299	A
29	B1	2300	G
29	B1	2303	A
29	B1	2306	C
29	B1	2307	G
29	B1	2308	C
29	B1	2309	A
29	B1	2310	U
29	B1	2311	G
29	B1	2313	A
29	B1	2314	U
29	B1	2315	G
29	B1	2320	A
29	B1	2324	A
29	B1	2325	G
29	B1	2326	A
29	B1	2327	U
29	B1	2329	C
29	B1	2330	C

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Mol	Chain	Res	Type
29	B1	2334	U
29	B1	2335	G
29	B1	2336	U
29	B1	2339	C
29	B1	2341	A
29	B1	2342	U
29	B1	2344	U
29	B1	2345	A
29	B1	2360	C
29	B1	2361	A
29	B1	2363	A
29	B1	2364	G
29	B1	2365	C
29	B1	2371	G
29	B1	2372	A
29	B1	2373	A
29	B1	2374	C
29	B1	2375	G
29	B1	2377	G
29	B1	2379	U
29	B1	2380	U
29	B1	2383	C
29	B1	2384	A
29	B1	2385	G
29	B1	2386	A
29	B1	2390	A
29	B1	2393	G
29	B1	2397	A
29	B1	2401	A
29	B1	2402	A
29	B1	2403	G
29	B1	2404	A
29	B1	2405	C
29	B1	2410	U
29	B1	2411	U
29	B1	2412	G
29	B1	2414	G
29	B1	2415	C
29	B1	2417	U
29	B1	2421	U
29	B1	2422	C
29	B1	2423	U

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Mol	Chain	Res	Type
29	B1	2424	A
29	B1	2432	A
29	B1	2433	U
29	B1	2434	U
29	B1	2436	U
29	B1	2437	G
29	B1	2439	A
29	B1	2443	A
29	B1	2445	A
29	B1	2446	U
29	B1	2449	A
29	B1	2450	G
29	B1	2451	G
29	B1	2452	G
29	B1	2453	U
29	B1	2454	G
29	B1	2458	A
29	B1	2459	A
29	B1	2461	A
29	B1	2462	A
29	B1	2463	G
29	B1	2468	A
29	B1	2472	U
29	B1	2473	C
29	B1	2474	G
29	B1	2479	C
29	B1	2484	A
29	B1	2485	A
29	B1	2486	A
29	B1	2487	U
29	B1	2488	A
29	B1	2491	A
29	B1	2492	C
29	B1	2493	U
29	B1	2499	U
29	B1	2500	A
29	B1	2501	U
29	B1	2502	A
29	B1	2503	G
29	B1	2504	U
29	B1	2508	U
29	B1	2511	A

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Mol	Chain	Res	Type
29	B1	2512	C
29	B1	2513	U
29	B1	2514	U
29	B1	2515	A
29	B1	2516	U
29	B1	2517	U
29	B1	2520	A
29	B1	2521	U
29	B1	2522	G
29	B1	2523	A
29	B1	2524	A
29	B1	2525	G
29	B1	2526	C
29	B1	2528	G
29	B1	2530	G
29	B1	2531	C
29	B1	2536	A
29	B1	2539	C
29	B1	2540	A
29	B1	2541	U
29	B1	2542	U
29	B1	2543	U
29	B1	2547	A
29	B1	2548	C
29	B1	2549	G
29	B1	2550	U
29	B1	2552	C
29	B1	2553	U
29	B1	2554	A
29	B1	2555	G
29	B1	2556	C
29	B1	2557	A
29	B1	2558	U
29	B1	2559	U
29	B1	2560	C
29	B1	2561	A
29	B1	2569	A
29	B1	2572	C
29	B1	2574	G
29	B1	2580	A
29	B1	2581	U
29	B1	2582	C

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Mol	Chain	Res	Type
29	B1	2583	C
29	B1	2584	G
29	B1	2585	G
29	B1	2586	G
29	B1	2587	U
29	B1	2589	G
29	B1	2593	A
29	B1	2594	C
29	B1	2598	G
29	B1	2600	C
29	B1	2603	G
29	B1	2605	G
29	B1	2606	G
29	B1	2607	G
29	B1	2612	U
29	B1	2613	U
29	B1	2614	G
29	B1	2618	G
29	B1	2619	G
29	B1	2624	G
29	B1	2626	A
29	B1	2627	C
29	B1	2628	A
29	B1	2629	U
29	B1	2631	U
29	B1	2636	A
29	B1	2637	A
29	B1	2638	C
29	B1	2639	G
29	B1	2642	A
29	B1	2643	A
29	B1	2644	C
29	B1	2648	G
29	B1	2649	A
29	B1	2650	U
29	B1	2651	G
29	B1	2652	U
29	B1	2653	C
29	B1	2655	U
29	B1	2656	A
29	B1	2657	A
29	B1	2658	G

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Mol	Chain	Res	Type
29	B1	2662	G
29	B1	2663	G
29	B1	2664	C
29	B1	2666	C
29	B1	2667	A
29	B1	2668	U
29	B1	2671	A
29	B1	2672	G
29	B1	2675	C
29	B1	2676	A
29	B1	2677	G
29	B1	2678	A
29	B1	2679	A
29	B1	2681	U
29	B1	2682	C
29	B1	2683	U
29	B1	2684	C
29	B1	2685	C
29	B1	2686	A
29	B1	2687	G
29	B1	2688	U
29	B1	2689	A
29	B1	2690	G
29	B1	2691	A
29	B1	2693	C
29	B1	2694	A
29	B1	2695	A
29	B1	2696	A
29	B1	2697	A
29	B1	2699	G
29	B1	2700	G
29	B1	2702	A
29	B1	2703	A
29	B1	2704	A
29	B1	2707	C
29	B1	2708	C
29	B1	2709	C
29	B1	2710	C
29	B1	2712	U
29	B1	2713	U
29	B1	2714	G
29	B1	2715	A

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Mol	Chain	Res	Type
29	B1	2716	U
29	B1	2717	U
29	B1	2718	U
29	B1	2719	U
29	B1	2725	U
29	B1	2726	C
29	B1	2727	A
29	B1	2728	G
29	B1	2729	U
29	B1	2730	G
29	B1	2731	U
29	B1	2733	A
29	B1	2735	U
29	B1	2740	A
29	B1	2742	C
29	B1	2743	A
29	B1	2746	A
29	B1	2751	G
29	B1	2752	U
29	B1	2753	G
29	B1	2755	C
29	B1	2756	C
29	B1	2760	C
29	B1	2762	A
29	B1	2764	C
29	B1	2766	U
29	B1	2769	A
29	B1	2771	U
29	B1	2772	C
29	B1	2776	C
29	B1	2777	G
29	B1	2778	G
29	B1	2779	A
29	B1	2780	A
29	B1	2782	U
29	B1	2783	U
29	B1	2784	G
29	B1	2787	G
29	B1	2790	A
29	B1	2796	G
29	B1	2798	C
29	B1	2799	A

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Mol	Chain	Res	Type
29	B1	2800	G
29	B1	2801	A
29	B1	2802	A
29	B1	2804	A
29	B1	2805	G
29	B1	2807	U
29	B1	2809	C
29	B1	2810	C
29	B1	2814	G
29	B1	2816	G
29	B1	2817	A
29	B1	2818	U
29	B1	2822	U
29	B1	2823	G
29	B1	2825	C
29	B1	2826	U
29	B1	2828	G
29	B1	2829	U
29	B1	2830	G
29	B1	2833	A
29	B1	2834	G
29	B1	2835	U
29	B1	2836	C
29	B1	2838	A
29	B1	2839	G
29	B1	2840	C
29	B1	2842	U
29	B1	2843	U
29	B1	2844	C
29	B1	2845	A
29	B1	2846	U
29	B1	2847	A
29	B1	2849	C
29	B1	2850	G
29	B1	2851	A
29	B1	2852	C
29	B1	2859	U
29	B1	2860	U
29	B1	2867	C
29	B1	2870	C
29	B1	2871	G
29	B1	2872	A

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Mol	Chain	Res	Type
29	B1	2873	U
29	B1	2874	G
29	B1	2875	U
29	B1	2878	G
29	B1	2881	C
29	B1	2882	U
29	B1	2883	U
29	B1	2884	C
29	B1	2886	U
29	B1	2887	A
29	B1	2888	U
29	B1	2894	C
29	B1	2896	A
29	B1	2897	A
29	B1	2898	G
29	B1	2899	C
29	B1	2900	A
29	B1	2901	G
29	B1	2905	U
29	B1	2911	A
29	B1	2912	G
29	B1	2914	G
29	B1	2915	U
29	B1	2916	U
29	B1	2918	G
29	B1	2919	A
29	B1	2920	U
29	B1	2922	G
29	B1	2923	U
29	B1	2928	C
29	B1	2929	C
29	B1	2932	U
29	B1	2935	U
29	B1	2936	A
29	B1	2939	G
29	B1	2941	A
29	B1	2942	C
29	B1	2943	G
29	B1	2944	U
29	B1	2945	G
29	B1	2947	G
29	B1	2954	U

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Mol	Chain	Res	Type
29	B1	2957	G
29	B1	2960	C
29	B1	2961	G
29	B1	2962	U
29	B1	2965	U
29	B1	2968	G
29	B1	2971	A
29	B1	2972	G
29	B1	2973	G
29	B1	2978	U
29	B1	2979	U
29	B1	2983	C
29	B1	2984	C
29	B1	2986	U
29	B1	2988	C
29	B1	2989	U
29	B1	2990	G
29	B1	2993	G
29	B1	2996	U
29	B1	2997	G
29	B1	2998	U
29	B1	2999	U
29	B1	3000	A
29	B1	3003	G
29	B1	3005	A
29	B1	3006	A
29	B1	3011	A
29	B1	3012	A
29	B1	3013	U
29	B1	3014	U
29	B1	3019	U
29	B1	3020	U
29	B1	3023	U
29	B1	3024	A
29	B1	3025	C
29	B1	3028	G
29	B1	3030	G
29	B1	3031	G
29	B1	3033	A
29	B1	3039	C
29	B1	3040	A
29	B1	3041	U

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Mol	Chain	Res	Type
29	B1	3045	G
29	B1	3046	A
29	B1	3047	U
29	B1	3048	A
29	B1	3049	A
29	B1	3052	G
29	B1	3054	U
29	B1	3056	U
29	B1	3057	U
29	B1	3058	U
29	B1	3059	G
29	B1	3060	C
29	B1	3061	G
29	B1	3064	U
29	B1	3066	U
29	B1	3071	U
29	B1	3072	C
29	B1	3074	G
29	B1	3075	G
29	B1	3077	A
29	B1	3078	U
29	B1	3079	U
29	B1	3080	G
29	B1	3090	U
29	B1	3091	A
29	B1	3092	C
29	B1	3093	C
29	B1	3094	A
29	B1	3096	C
29	B1	3097	C
29	B1	3098	G
29	B1	3099	C
29	B1	3100	U
29	B1	3101	G
29	B1	3102	G
29	B1	3103	A
29	B1	3104	U
29	B1	3105	U
29	B1	3113	A
29	B1	3115	C
29	B1	3120	C
29	B1	3121	U

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Mol	Chain	Res	Type
29	B1	3122	A
29	B1	3123	A
29	B1	3126	C
29	B1	3127	A
29	B1	3128	G
29	B1	3129	A
29	B1	3130	A
29	B1	3131	U
29	B1	3133	C
29	B1	3134	A
29	B1	3136	G
29	B1	3137	C
29	B1	3138	U
29	B1	3139	A
29	B1	3140	G
29	B1	3141	A
29	B1	3142	A
29	B1	3143	C
29	B1	3144	G
29	B1	3145	C
29	B1	3149	G
29	B1	3151	U
29	B1	3152	U
29	B1	3153	U
29	B1	3154	C
29	B1	3157	U
29	B1	3159	C
29	B1	3160	U
29	B1	3161	C
29	B1	3162	C
29	B1	3163	A
29	B1	3164	C
29	B1	3166	C
29	B1	3168	A
29	B1	3169	U
29	B1	3170	A
29	B1	3171	U
29	B1	3172	A
29	B1	3173	G
29	B1	3174	A
29	B1	3175	U
29	B1	3176	G

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Mol	Chain	Res	Type
29	B1	3177	G
29	B1	3178	A
29	B1	3179	U
29	B1	3180	A
29	B1	3181	C
29	B1	3184	A
29	B1	3185	U
29	B1	3187	A
29	B1	3191	G
29	B1	3195	U
29	B1	3196	U
29	B1	3198	U
29	B1	3199	G
29	B1	3200	G
29	B1	3201	C
29	B1	3202	G
29	B1	3203	U
29	B1	3204	C
29	B1	3205	G
29	B1	3206	C
29	B1	3207	U
29	B1	3208	G
29	B1	3209	A
29	B1	3210	A
29	B1	3211	C
29	B1	3212	C
29	B1	3214	U
29	B1	3215	A
29	B1	3216	G
29	B1	3217	C
29	B1	3218	A
29	B1	3219	G
29	B1	3220	G
29	B1	3223	A
29	B1	3225	C
29	B1	3227	A
29	B1	3228	C
29	B1	3229	G
29	B1	3237	U
29	B1	3238	G
29	B1	3243	A
29	B1	3244	A

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Mol	Chain	Res	Type
29	B1	3245	A
29	B1	3246	G
29	B1	3254	G
29	B1	3257	C
29	B1	3258	U
29	B1	3259	U
29	B1	3260	G
29	B1	3261	C
29	B1	3262	U
29	B1	3263	G
29	B1	3265	C
29	B1	3267	A
29	B1	3268	A
29	B1	3269	U
29	B1	3270	U
29	B1	3271	G
29	B1	3272	C
29	B1	3273	A
29	B1	3274	A
29	B1	3275	U
29	B1	3276	G
29	B1	3277	U
29	B1	3279	A
29	B1	3280	U
29	B1	3281	U
29	B1	3282	U
29	B1	3283	U
29	B1	3285	C
29	B1	3287	U
29	B1	3288	G
29	B1	3290	G
29	B1	3291	G
29	B1	3292	A
29	B1	3293	U
29	B1	3294	A
29	B1	3299	A
29	B1	3300	U
29	B1	3301	U
29	B1	3302	U
29	B1	3303	G
29	B1	3304	U
29	B1	3305	A

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Mol	Chain	Res	Type
29	B1	3306	U
29	B1	3312	U
29	B1	3313	U
29	B1	3314	A
29	B1	3315	G
29	B1	3316	A
29	B1	3317	U
29	B1	3318	G
29	B1	3319	U
29	B1	3320	A
29	B1	3321	C
29	B1	3322	A
29	B1	3324	C
29	B1	3329	U
29	B1	3331	U
29	B1	3332	U
29	B1	3333	G
29	B1	3334	U
29	B1	3339	A
29	B1	3341	U
29	B1	3342	A
29	B1	3343	G
29	B1	3344	A
29	B1	3350	C
29	B1	3351	U
29	B1	3352	U
29	B1	3353	G
29	B1	3354	U
29	B1	3355	U
29	B1	3356	G
29	B1	3357	U
29	B1	3358	U
29	B1	3360	C
29	B1	3361	G
29	B1	3362	A
29	B1	3363	U
29	B1	3369	G
29	B1	3370	A
29	B1	3371	G
29	B1	3372	A
29	B1	3375	A
29	B1	3376	A

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Mol	Chain	Res	Type
29	B1	3377	G
29	B1	3378	C
29	B1	3379	C
29	B1	3381	U
29	B1	3382	U
29	B1	3383	G
29	B1	3384	U
29	B1	3387	U
29	B1	3389	U
29	B1	3390	G
29	B1	3392	U
29	B1	3394	U
29	B1	3395	G
29	B1	3396	U
30	B2	2	G
30	B2	3	U
30	B2	5	G
30	B2	6	C
30	B2	9	C
30	B2	10	C
30	B2	11	A
30	B2	12	U
30	B2	13	A
30	B2	14	U
30	B2	15	C
30	B2	19	C
30	B2	22	A
30	B2	27	A
30	B2	29	C
30	B2	30	G
30	B2	31	U
30	B2	33	U
30	B2	34	C
30	B2	35	C
30	B2	36	C
30	B2	38	U
30	B2	39	C
30	B2	40	C
30	B2	41	G
30	B2	42	A
30	B2	43	U
30	B2	44	C

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Mol	Chain	Res	Type
30	B2	47	C
30	B2	48	U
30	B2	49	G
30	B2	50	U
30	B2	51	A
30	B2	54	U
30	B2	55	A
30	B2	56	A
30	B2	58	C
30	B2	61	G
30	B2	63	A
30	B2	64	A
30	B2	65	G
30	B2	66	A
30	B2	68	C
30	B2	70	U
30	B2	75	G
30	B2	76	A
30	B2	78	U
30	B2	79	A
30	B2	81	U
30	B2	83	U
30	B2	84	A
30	B2	87	G
30	B2	89	G
30	B2	92	A
30	B2	93	C
30	B2	96	U
30	B2	97	A
30	B2	98	C
30	B2	99	G
30	B2	102	A
30	B2	103	A
30	B2	105	C
30	B2	107	C
30	B2	109	G
30	B2	110	G
30	B2	112	G
30	B2	115	G
30	B2	118	A
30	B2	120	C
30	B2	121	U

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Mol	Chain	Res	Type
31	B3	2	A
31	B3	6	U
31	B3	10	A
31	B3	12	A
31	B3	14	C
31	B3	15	G
31	B3	23	U
31	B3	24	G
31	B3	25	G
31	B3	30	C
31	B3	34	U
31	B3	38	U
31	B3	40	A
31	B3	41	A
31	B3	45	C
31	B3	49	G
31	B3	50	C
31	B3	51	G
31	B3	55	U
31	B3	59	A
31	B3	60	U
31	B3	61	A
31	B3	62	C
31	B3	63	G
31	B3	65	A
31	B3	67	U
31	B3	68	G
31	B3	70	G
31	B3	71	A
31	B3	72	A
31	B3	73	U
31	B3	75	G
31	B3	76	C
31	B3	77	A
31	B3	78	G
31	B3	80	A
31	B3	82	U
31	B3	83	C
31	B3	85	G
31	B3	86	U
31	B3	87	G
31	B3	88	A

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Mol	Chain	Res	Type
31	B3	89	A
31	B3	90	U
31	B3	93	U
31	B3	94	C
31	B3	95	G
31	B3	96	A
31	B3	97	A
31	B3	99	C
31	B3	101	U
31	B3	104	A
31	B3	105	A
31	B3	106	C
31	B3	107	G
31	B3	108	C
31	B3	110	C
31	B3	111	A
31	B3	112	U
31	B3	113	U
31	B3	114	G
31	B3	117	C
31	B3	124	G
31	B3	125	U
31	B3	126	A
31	B3	127	U
31	B3	128	U
31	B3	129	C
31	B3	130	C
31	B3	132	G
31	B3	137	C
31	B3	138	A
31	B3	141	C
31	B3	145	U
31	B3	147	U
31	B3	149	A
31	B3	151	C
31	B3	152	G
31	B3	157	U
31	B3	158	U
1	C1	2	A
1	C1	3	U
1	C1	4	C
1	C1	7	G

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Mol	Chain	Res	Type
1	C1	8	U
1	C1	13	C
1	C1	17	C
1	C1	20	G
1	C1	21	U
1	C1	22	A
1	C1	24	U
1	C1	25	C
1	C1	26	A
1	C1	27	U
1	C1	31	C
1	C1	34	G
1	C1	35	U
1	C1	40	A
1	C1	41	A
1	C1	42	G
1	C1	45	U
1	C1	46	A
1	C1	47	A
1	C1	48	G
1	C1	50	C
1	C1	51	A
1	C1	54	C
1	C1	56	U
1	C1	57	G
1	C1	58	U
1	C1	59	C
1	C1	60	U
1	C1	61	A
1	C1	62	A
1	C1	63	G
1	C1	64	U
1	C1	65	A
1	C1	66	U
1	C1	67	A
1	C1	68	A
1	C1	69	G
1	C1	70	C
1	C1	71	A
1	C1	72	A
1	C1	75	U
1	C1	76	A

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Mol	Chain	Res	Type
1	C1	77	U
1	C1	78	A
1	C1	79	C
1	C1	80	A
1	C1	81	G
1	C1	82	U
1	C1	83	G
1	C1	86	A
1	C1	88	U
1	C1	95	G
1	C1	99	C
1	C1	102	U
1	C1	104	A
1	C1	105	A
1	C1	106	U
1	C1	111	U
1	C1	112	A
1	C1	113	U
1	C1	114	C
1	C1	115	G
1	C1	117	U
1	C1	119	A
1	C1	120	U
1	C1	121	U
1	C1	122	U
1	C1	123	G
1	C1	124	A
1	C1	125	U
1	C1	126	A
1	C1	128	U
1	C1	129	U
1	C1	130	C
1	C1	131	C
1	C1	132	U
1	C1	133	U
1	C1	134	U
1	C1	135	A
1	C1	136	C
1	C1	137	U
1	C1	138	A
1	C1	139	C
1	C1	140	A

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Mol	Chain	Res	Type
1	C1	141	U
1	C1	144	U
1	C1	145	A
1	C1	146	U
1	C1	147	A
1	C1	148	A
1	C1	149	C
1	C1	150	U
1	C1	151	G
1	C1	154	G
1	C1	156	A
1	C1	158	U
1	C1	159	U
1	C1	160	C
1	C1	161	U
1	C1	162	A
1	C1	166	C
1	C1	167	U
1	C1	168	A
1	C1	169	A
1	C1	170	U
1	C1	171	A
1	C1	172	C
1	C1	174	U
1	C1	176	C
1	C1	177	U
1	C1	178	U
1	C1	179	A
1	C1	180	A
1	C1	181	A
1	C1	184	C
1	C1	187	G
1	C1	190	C
1	C1	191	C
1	C1	192	U
1	C1	193	U
1	C1	194	U
1	C1	195	G
1	C1	196	G
1	C1	197	A
1	C1	198	A
1	C1	199	G

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Mol	Chain	Res	Type
1	C1	200	A
1	C1	201	G
1	C1	204	G
1	C1	208	U
1	C1	209	U
1	C1	211	U
1	C1	212	U
1	C1	213	A
1	C1	215	A
1	C1	218	A
1	C1	219	A
1	C1	220	A
1	C1	224	C
1	C1	226	A
1	C1	227	U
1	C1	228	G
1	C1	229	U
1	C1	233	C
1	C1	234	G
1	C1	238	U
1	C1	241	U
1	C1	242	U
1	C1	243	G
1	C1	244	A
1	C1	245	U
1	C1	246	G
1	C1	249	U
1	C1	250	C
1	C1	251	A
1	C1	252	U
1	C1	253	A
1	C1	254	A
1	C1	255	U
1	C1	256	A
1	C1	257	A
1	C1	259	U
1	C1	260	U
1	C1	261	U
1	C1	262	U
1	C1	263	C
1	C1	264	G
1	C1	265	A

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Mol	Chain	Res	Type
1	C1	267	U
1	C1	270	C
1	C1	271	A
1	C1	272	U
1	C1	273	G
1	C1	274	G
1	C1	276	C
1	C1	277	U
1	C1	278	U
1	C1	280	U
1	C1	282	C
1	C1	283	U
1	C1	284	G
1	C1	285	G
1	C1	289	U
1	C1	295	A
1	C1	296	U
1	C1	297	U
1	C1	298	C
1	C1	299	A
1	C1	302	U
1	C1	309	C
1	C1	310	C
1	C1	311	U
1	C1	312	A
1	C1	314	C
1	C1	316	A
1	C1	320	U
1	C1	321	C
1	C1	322	G
1	C1	323	A
1	C1	324	U
1	C1	327	U
1	C1	330	G
1	C1	331	A
1	C1	332	U
1	C1	333	A
1	C1	334	G
1	C1	335	U
1	C1	337	G
1	C1	338	C
1	C1	340	U

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Mol	Chain	Res	Type
1	C1	341	A
1	C1	350	U
1	C1	351	C
1	C1	352	A
1	C1	354	C
1	C1	357	G
1	C1	359	A
1	C1	360	A
1	C1	361	C
1	C1	365	G
1	C1	366	A
1	C1	368	U
1	C1	369	A
1	C1	370	A
1	C1	373	G
1	C1	374	U
1	C1	375	U
1	C1	376	C
1	C1	378	A
1	C1	379	U
1	C1	380	U
1	C1	381	C
1	C1	382	C
1	C1	383	G
1	C1	385	A
1	C1	387	A
1	C1	390	G
1	C1	393	C
1	C1	394	C
1	C1	395	U
1	C1	396	G
1	C1	397	A
1	C1	399	A
1	C1	400	A
1	C1	401	A
1	C1	402	C
1	C1	403	G
1	C1	404	G
1	C1	406	U
1	C1	411	C
1	C1	415	C
1	C1	416	A

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Mol	Chain	Res	Type
1	C1	417	A
1	C1	418	G
1	C1	419	G
1	C1	421	A
1	C1	424	C
1	C1	425	A
1	C1	426	G
1	C1	427	C
1	C1	428	A
1	C1	434	G
1	C1	436	A
1	C1	437	A
1	C1	438	A
1	C1	439	U
1	C1	440	U
1	C1	441	A
1	C1	444	C
1	C1	445	A
1	C1	446	A
1	C1	447	U
1	C1	448	C
1	C1	449	C
1	C1	451	A
1	C1	452	A
1	C1	453	U
1	C1	454	U
1	C1	455	C
1	C1	458	G
1	C1	459	G
1	C1	462	G
1	C1	464	A
1	C1	467	G
1	C1	468	A
1	C1	469	C
1	C1	470	A
1	C1	475	A
1	C1	477	A
1	C1	480	G
1	C1	482	U
1	C1	485	A
1	C1	486	G
1	C1	487	G

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Mol	Chain	Res	Type
1	C1	488	G
1	C1	489	C
1	C1	490	C
1	C1	493	U
1	C1	494	U
1	C1	495	C
1	C1	496	G
1	C1	498	G
1	C1	500	C
1	C1	504	U
1	C1	505	A
1	C1	506	A
1	C1	510	G
1	C1	511	A
1	C1	512	A
1	C1	513	U
1	C1	514	G
1	C1	515	A
1	C1	516	G
1	C1	517	U
1	C1	519	C
1	C1	522	U
1	C1	523	G
1	C1	524	U
1	C1	526	A
1	C1	527	A
1	C1	528	U
1	C1	529	A
1	C1	530	C
1	C1	531	C
1	C1	535	A
1	C1	537	G
1	C1	538	A
1	C1	539	G
1	C1	540	G
1	C1	541	A
1	C1	542	A
1	C1	543	C
1	C1	544	A
1	C1	545	A
1	C1	546	U
1	C1	548	G

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Mol	Chain	Res	Type
1	C1	550	A
1	C1	551	G
1	C1	554	C
1	C1	555	A
1	C1	556	A
1	C1	557	G
1	C1	558	U
1	C1	560	U
1	C1	561	G
1	C1	563	U
1	C1	564	G
1	C1	565	C
1	C1	568	G
1	C1	570	A
1	C1	572	C
1	C1	574	G
1	C1	578	U
1	C1	579	A
1	C1	580	A
1	C1	585	A
1	C1	594	A
1	C1	595	G
1	C1	596	C
1	C1	599	A
1	C1	601	A
1	C1	602	U
1	C1	605	A
1	C1	607	G
1	C1	608	U
1	C1	609	U
1	C1	610	G
1	C1	611	U
1	C1	612	U
1	C1	614	C
1	C1	615	A
1	C1	616	G
1	C1	619	A
1	C1	620	A
1	C1	622	A
1	C1	623	A
1	C1	624	G
1	C1	626	U

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Mol	Chain	Res	Type
1	C1	630	A
1	C1	633	U
1	C1	638	U
1	C1	639	U
1	C1	640	U
1	C1	646	C
1	C1	647	G
1	C1	649	U
1	C1	650	U
1	C1	653	C
1	C1	656	G
1	C1	659	C
1	C1	660	G
1	C1	662	U
1	C1	663	U
1	C1	665	U
1	C1	666	U
1	C1	667	U
1	C1	681	U
1	C1	682	C
1	C1	683	C
1	C1	685	A
1	C1	686	C
1	C1	691	C
1	C1	692	C
1	C1	693	U
1	C1	694	U
1	C1	695	U
1	C1	696	C
1	C1	697	C
1	C1	698	U
1	C1	699	U
1	C1	702	G
1	C1	703	G
1	C1	706	A
1	C1	707	A
1	C1	708	C
1	C1	710	U
1	C1	714	G
1	C1	715	U
1	C1	718	U
1	C1	719	U

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Mol	Chain	Res	Type
1	C1	720	G
1	C1	721	U
1	C1	722	G
1	C1	723	G
1	C1	729	G
1	C1	730	G
1	C1	731	C
1	C1	733	A
1	C1	736	C
1	C1	739	G
1	C1	741	C
1	C1	742	U
1	C1	743	U
1	C1	744	U
1	C1	750	U
1	C1	751	G
1	C1	754	A
1	C1	756	A
1	C1	765	G
1	C1	766	U
1	C1	767	U
1	C1	774	A
1	C1	775	G
1	C1	778	G
1	C1	779	U
1	C1	780	A
1	C1	781	U
1	C1	782	U
1	C1	783	G
1	C1	787	G
1	C1	789	A
1	C1	790	U
1	C1	793	A
1	C1	794	U
1	C1	803	A
1	C1	808	U
1	C1	811	A
1	C1	812	A
1	C1	813	U
1	C1	814	A
1	C1	815	G
1	C1	816	G

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Mol	Chain	Res	Type
1	C1	818	C
1	C1	819	G
1	C1	820	U
1	C1	821	U
1	C1	822	U
1	C1	823	G
1	C1	824	G
1	C1	825	U
1	C1	826	U
1	C1	828	U
1	C1	829	A
1	C1	830	U
1	C1	831	U
1	C1	832	U
1	C1	834	G
1	C1	839	U
1	C1	840	U
1	C1	841	U
1	C1	842	C
1	C1	844	A
1	C1	847	A
1	C1	848	C
1	C1	850	A
1	C1	856	A
1	C1	857	U
1	C1	858	G
1	C1	860	U
1	C1	861	U
1	C1	862	A
1	C1	863	A
1	C1	864	U
1	C1	865	A
1	C1	872	G
1	C1	873	U
1	C1	876	G
1	C1	880	C
1	C1	881	A
1	C1	883	C
1	C1	886	U
1	C1	888	U
1	C1	891	A
1	C1	893	U

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Mol	Chain	Res	Type
1	C1	894	U
1	C1	896	U
1	C1	897	C
1	C1	899	G
1	C1	901	G
1	C1	902	G
1	C1	903	U
1	C1	904	G
1	C1	905	A
1	C1	906	A
1	C1	909	U
1	C1	910	C
1	C1	911	U
1	C1	912	U
1	C1	913	G
1	C1	914	G
1	C1	915	A
1	C1	916	U
1	C1	920	U
1	C1	922	G
1	C1	923	A
1	C1	927	C
1	C1	929	A
1	C1	932	U
1	C1	933	A
1	C1	934	C
1	C1	938	G
1	C1	939	A
1	C1	942	G
1	C1	943	C
1	C1	944	A
1	C1	952	A
1	C1	959	U
1	C1	960	U
1	C1	961	U
1	C1	964	U
1	C1	965	U
1	C1	966	A
1	C1	967	A
1	C1	973	A
1	C1	975	C
1	C1	976	G

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Mol	Chain	Res	Type
1	C1	977	A
1	C1	978	A
1	C1	981	U
1	C1	987	G
1	C1	988	A
1	C1	992	A
1	C1	993	A
1	C1	995	A
1	C1	996	U
1	C1	998	A
1	C1	1000	C
1	C1	1003	A
1	C1	1004	U
1	C1	1005	A
1	C1	1007	C
1	C1	1008	G
1	C1	1010	C
1	C1	1019	A
1	C1	1027	A
1	C1	1028	C
1	C1	1029	U
1	C1	1030	A
1	C1	1032	G
1	C1	1036	A
1	C1	1039	A
1	C1	1040	G
1	C1	1044	U
1	C1	1045	C
1	C1	1046	G
1	C1	1048	G
1	C1	1049	U
1	C1	1057	U
1	C1	1058	U
1	C1	1059	U
1	C1	1060	U
1	C1	1066	C
1	C1	1071	U
1	C1	1072	C
1	C1	1073	G
1	C1	1074	G
1	C1	1075	C
1	C1	1077	C

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Mol	Chain	Res	Type
1	C1	1079	U
1	C1	1080	U
1	C1	1082	C
1	C1	1087	A
1	C1	1090	C
1	C1	1091	A
1	C1	1092	A
1	C1	1093	A
1	C1	1094	G
1	C1	1095	U
1	C1	1096	C
1	C1	1097	U
1	C1	1098	U
1	C1	1099	U
1	C1	1100	G
1	C1	1101	G
1	C1	1103	U
1	C1	1107	G
1	C1	1108	G
1	C1	1109	G
1	C1	1110	G
1	C1	1111	G
1	C1	1112	G
1	C1	1113	A
1	C1	1114	G
1	C1	1115	U
1	C1	1119	G
1	C1	1124	A
1	C1	1126	G
1	C1	1129	U
1	C1	1136	U
1	C1	1137	A
1	C1	1138	A
1	C1	1139	A
1	C1	1140	G
1	C1	1141	G
1	C1	1142	A
1	C1	1143	A
1	C1	1145	U
1	C1	1146	G
1	C1	1147	A
1	C1	1149	G

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Mol	Chain	Res	Type
1	C1	1150	G
1	C1	1151	A
1	C1	1152	A
1	C1	1153	G
1	C1	1154	G
1	C1	1158	C
1	C1	1160	A
1	C1	1161	C
1	C1	1162	C
1	C1	1166	A
1	C1	1167	G
1	C1	1168	U
1	C1	1178	G
1	C1	1179	G
1	C1	1185	U
1	C1	1186	U
1	C1	1189	A
1	C1	1190	C
1	C1	1191	U
1	C1	1193	A
1	C1	1194	A
1	C1	1196	A
1	C1	1197	C
1	C1	1198	G
1	C1	1199	G
1	C1	1200	G
1	C1	1201	G
1	C1	1202	A
1	C1	1203	A
1	C1	1204	A
1	C1	1205	C
1	C1	1206	U
1	C1	1207	C
1	C1	1208	A
1	C1	1209	C
1	C1	1211	A
1	C1	1217	A
1	C1	1218	G
1	C1	1219	A
1	C1	1220	C
1	C1	1222	C
1	C1	1225	U

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Mol	Chain	Res	Type
1	C1	1228	G
1	C1	1229	G
1	C1	1230	A
1	C1	1231	U
1	C1	1232	U
1	C1	1234	A
1	C1	1235	C
1	C1	1238	A
1	C1	1239	U
1	C1	1240	U
1	C1	1242	A
1	C1	1243	G
1	C1	1244	A
1	C1	1245	G
1	C1	1246	C
1	C1	1248	C
1	C1	1254	U
1	C1	1255	G
1	C1	1256	A
1	C1	1257	U
1	C1	1258	U
1	C1	1259	U
1	C1	1260	U
1	C1	1264	G
1	C1	1266	U
1	C1	1268	G
1	C1	1270	G
1	C1	1273	G
1	C1	1274	C
1	C1	1275	A
1	C1	1276	U
1	C1	1280	C
1	C1	1283	U
1	C1	1284	C
1	C1	1286	U
1	C1	1287	A
1	C1	1288	G
1	C1	1290	U
1	C1	1297	G
1	C1	1299	G
1	C1	1302	U
1	C1	1303	U

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Mol	Chain	Res	Type
1	C1	1306	C
1	C1	1310	U
1	C1	1311	U
1	C1	1312	A
1	C1	1314	U
1	C1	1315	U
1	C1	1316	G
1	C1	1321	A
1	C1	1324	G
1	C1	1325	A
1	C1	1326	A
1	C1	1331	A
1	C1	1332	C
1	C1	1333	C
1	C1	1335	U
1	C1	1336	A
1	C1	1337	A
1	C1	1340	U
1	C1	1341	A
1	C1	1342	C
1	C1	1345	A
1	C1	1346	A
1	C1	1347	U
1	C1	1348	A
1	C1	1349	G
1	C1	1350	U
1	C1	1351	G
1	C1	1353	U
1	C1	1354	G
1	C1	1355	C
1	C1	1358	G
1	C1	1359	C
1	C1	1360	A
1	C1	1361	U
1	C1	1362	U
1	C1	1363	U
1	C1	1364	G
1	C1	1365	C
1	C1	1366	U
1	C1	1367	G
1	C1	1368	G
1	C1	1369	U

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Mol	Chain	Res	Type
1	C1	1371	A
1	C1	1373	C
1	C1	1374	C
1	C1	1378	U
1	C1	1379	C
1	C1	1380	U
1	C1	1383	G
1	C1	1384	A
1	C1	1388	A
1	C1	1390	U
1	C1	1391	A
1	C1	1392	U
1	C1	1397	U
1	C1	1398	U
1	C1	1399	C
1	C1	1400	A
1	C1	1401	A
1	C1	1402	G
1	C1	1407	U
1	C1	1408	G
1	C1	1409	G
1	C1	1410	A
1	C1	1412	G
1	C1	1413	U
1	C1	1414	U
1	C1	1415	U
1	C1	1418	G
1	C1	1419	G
1	C1	1420	C
1	C1	1422	A
1	C1	1427	A
1	C1	1428	G
1	C1	1429	G
1	C1	1431	C
1	C1	1432	U
1	C1	1433	G
1	C1	1434	U
1	C1	1435	G
1	C1	1436	A
1	C1	1438	G
1	C1	1443	U
1	C1	1445	G

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Mol	Chain	Res	Type
1	C1	1446	A
1	C1	1447	C
1	C1	1448	G
1	C1	1449	U
1	C1	1450	U
1	C1	1454	G
1	C1	1455	G
1	C1	1456	C
1	C1	1458	G
1	C1	1459	C
1	C1	1460	A
1	C1	1466	G
1	C1	1467	C
1	C1	1468	U
1	C1	1469	A
1	C1	1471	A
1	C1	1472	C
1	C1	1473	U
1	C1	1474	G
1	C1	1477	G
1	C1	1478	G
1	C1	1479	A
1	C1	1481	C
1	C1	1482	C
1	C1	1483	A
1	C1	1484	G
1	C1	1485	C
1	C1	1486	G
1	C1	1490	C
1	C1	1491	U
1	C1	1492	A
1	C1	1493	A
1	C1	1494	C
1	C1	1499	G
1	C1	1503	A
1	C1	1505	A
1	C1	1506	G
1	C1	1509	C
1	C1	1510	U
1	C1	1514	U
1	C1	1515	A
1	C1	1516	A

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Mol	Chain	Res	Type
1	C1	1517	U
1	C1	1519	U
1	C1	1521	G
1	C1	1522	U
1	C1	1523	G
1	C1	1524	A
1	C1	1533	C
1	C1	1534	G
1	C1	1535	U
1	C1	1536	G
1	C1	1538	U
1	C1	1539	G
1	C1	1540	G
1	C1	1541	G
1	C1	1542	G
1	C1	1545	A
1	C1	1547	A
1	C1	1548	G
1	C1	1550	A
1	C1	1551	U
1	C1	1553	G
1	C1	1554	U
1	C1	1555	A
1	C1	1556	A
1	C1	1557	U
1	C1	1558	U
1	C1	1559	A
1	C1	1560	U
1	C1	1568	C
1	C1	1570	A
1	C1	1572	G
1	C1	1573	A
1	C1	1574	G
1	C1	1575	G
1	C1	1576	A
1	C1	1581	C
1	C1	1583	A
1	C1	1584	G
1	C1	1587	A
1	C1	1590	G
1	C1	1591	C
1	C1	1592	A

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Mol	Chain	Res	Type
1	C1	1598	U
1	C1	1599	C
1	C1	1600	A
1	C1	1601	G
1	C1	1602	C
1	C1	1605	G
1	C1	1607	G
1	C1	1609	U
1	C1	1610	G
1	C1	1611	A
1	C1	1613	U
1	C1	1614	A
1	C1	1615	C
1	C1	1616	G
1	C1	1618	C
1	C1	1623	C
1	C1	1624	C
1	C1	1625	C
1	C1	1627	U
1	C1	1628	U
1	C1	1630	U
1	C1	1631	A
1	C1	1632	C
1	C1	1633	A
1	C1	1634	C
1	C1	1635	A
1	C1	1636	C
1	C1	1637	C
1	C1	1638	G
1	C1	1639	C
1	C1	1644	C
1	C1	1645	G
1	C1	1646	C
1	C1	1650	U
1	C1	1656	U
1	C1	1657	U
1	C1	1658	G
1	C1	1659	A
1	C1	1664	C
1	C1	1665	U
1	C1	1667	A
1	C1	1668	G

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Mol	Chain	Res	Type
1	C1	1673	G
1	C1	1674	C
1	C1	1675	C
1	C1	1676	U
1	C1	1677	C
1	C1	1678	A
1	C1	1680	G
1	C1	1681	A
1	C1	1682	U
1	C1	1683	C
1	C1	1684	U
1	C1	1685	G
1	C1	1688	U
1	C1	1689	A
1	C1	1691	A
1	C1	1692	G
1	C1	1693	A
1	C1	1695	G
1	C1	1696	G
1	C1	1698	G
1	C1	1700	C
1	C1	1701	A
1	C1	1706	C
1	C1	1707	A
1	C1	1710	U
1	C1	1711	C
1	C1	1716	C
1	C1	1719	A
1	C1	1720	G
1	C1	1722	A
1	C1	1728	A
1	C1	1731	A
1	C1	1739	C
1	C1	1740	A
1	C1	1744	A
1	C1	1746	A
1	C1	1748	G
1	C1	1754	A
1	C1	1755	A
1	C1	1756	A
1	C1	1757	G
1	C1	1760	G

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Mol	Chain	Res	Type
1	C1	1762	A
1	C1	1764	C
1	C1	1766	A
1	C1	1767	G
1	C1	1768	G
1	C1	1769	U
1	C1	1770	U
1	C1	1772	C
1	C1	1773	C
1	C1	1774	G
1	C1	1777	G
1	C1	1779	U
1	C1	1780	G
1	C1	1782	A
1	C1	1783	C
1	C1	1788	G
1	C1	1791	A
1	C1	1792	G
1	C1	1793	G
1	C1	1794	A
1	C1	1795	U
1	C1	1797	A
1	C1	1798	U
29	D1	6	A
29	D1	9	U
29	D1	10	C
29	D1	12	A
29	D1	14	U
29	D1	15	C
29	D1	16	A
29	D1	20	A
29	D1	21	G
29	D1	22	G
29	D1	25	U
29	D1	32	U
29	D1	35	A
29	D1	38	U
29	D1	40	A
29	D1	43	A
29	D1	44	U
29	D1	47	C
29	D1	50	U

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Mol	Chain	Res	Type
29	D1	53	G
29	D1	56	G
29	D1	58	G
29	D1	59	G
29	D1	60	A
29	D1	62	A
29	D1	65	A
29	D1	66	A
29	D1	68	C
29	D1	70	A
29	D1	71	A
29	D1	72	C
29	D1	73	C
29	D1	74	G
29	D1	76	G
29	D1	77	A
29	D1	81	C
29	D1	83	U
29	D1	85	A
29	D1	87	U
29	D1	88	A
29	D1	89	A
29	D1	92	G
29	D1	93	C
29	D1	94	G
29	D1	96	G
29	D1	97	U
29	D1	98	G
29	D1	99	A
29	D1	102	C
29	D1	103	G
29	D1	105	C
29	D1	106	A
29	D1	108	A
29	D1	109	A
29	D1	110	G
29	D1	113	C
29	D1	114	A
29	D1	117	U
29	D1	118	U
29	D1	119	U
29	D1	120	G

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Mol	Chain	Res	Type
29	D1	121	A
29	D1	122	A
29	D1	125	C
29	D1	126	U
29	D1	127	G
29	D1	131	C
29	D1	133	U
29	D1	134	U
29	D1	136	G
29	D1	138	U
29	D1	141	C
29	D1	144	A
29	D1	145	G
29	D1	146	U
29	D1	147	U
29	D1	148	G
29	D1	149	U
29	D1	150	A
29	D1	152	U
29	D1	155	G
29	D1	156	G
29	D1	157	A
29	D1	158	G
29	D1	159	A
29	D1	160	G
29	D1	161	G
29	D1	164	A
29	D1	167	U
29	D1	169	U
29	D1	170	G
29	D1	171	G
29	D1	172	G
29	D1	173	G
29	D1	175	C
29	D1	176	G
29	D1	177	U
29	D1	178	U
29	D1	179	C
29	D1	182	U
29	D1	187	A
29	D1	188	U
29	D1	190	U

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Mol	Chain	Res	Type
29	D1	191	U
29	D1	196	G
29	D1	197	G
29	D1	199	A
29	D1	200	C
29	D1	201	A
29	D1	204	A
29	D1	205	C
29	D1	209	A
29	D1	210	U
29	D1	211	A
29	D1	214	G
29	D1	215	G
29	D1	218	G
29	D1	219	A
29	D1	220	G
29	D1	221	A
29	D1	223	U
29	D1	224	C
29	D1	225	C
29	D1	227	G
29	D1	230	U
29	D1	231	G
29	D1	237	G
29	D1	238	A
29	D1	239	G
29	D1	240	U
29	D1	241	G
29	D1	242	C
29	D1	244	G
29	D1	245	U
29	D1	246	U
29	D1	247	C
29	D1	248	U
29	D1	249	U
29	D1	250	U
29	D1	251	G
29	D1	252	U
29	D1	253	A
29	D1	255	A
29	D1	256	G
29	D1	257	U

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Mol	Chain	Res	Type
29	D1	258	G
29	D1	259	C
29	D1	260	C
29	D1	261	U
29	D1	262	U
29	D1	263	C
29	D1	264	G
29	D1	265	A
29	D1	266	A
29	D1	267	G
29	D1	269	G
29	D1	277	G
29	D1	282	G
29	D1	283	G
29	D1	284	A
29	D1	285	A
29	D1	288	C
29	D1	289	A
29	D1	290	G
29	D1	292	U
29	D1	293	C
29	D1	295	A
29	D1	297	G
29	D1	298	U
29	D1	301	G
29	D1	304	G
29	D1	305	U
29	D1	306	A
29	D1	307	A
29	D1	311	C
29	D1	315	C
29	D1	316	U
29	D1	317	A
29	D1	318	A
29	D1	319	A
29	D1	323	A
29	D1	324	A
29	D1	325	A
29	D1	326	U
29	D1	327	A
29	D1	328	U
29	D1	329	U

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Mol	Chain	Res	Type
29	D1	330	G
29	D1	331	G
29	D1	332	C
29	D1	333	G
29	D1	335	G
29	D1	338	A
29	D1	339	C
29	D1	340	C
29	D1	341	G
29	D1	342	A
29	D1	345	G
29	D1	346	C
29	D1	349	A
29	D1	350	C
29	D1	351	A
29	D1	352	A
29	D1	354	U
29	D1	362	U
29	D1	364	G
29	D1	368	G
29	D1	369	A
29	D1	370	U
29	D1	371	G
29	D1	374	A
29	D1	375	A
29	D1	376	G
29	D1	377	A
29	D1	378	A
29	D1	379	C
29	D1	380	U
29	D1	381	U
29	D1	382	U
29	D1	383	G
29	D1	384	A
29	D1	385	A
29	D1	386	A
29	D1	387	A
29	D1	390	G
29	D1	391	A
29	D1	392	G
29	D1	395	A
29	D1	396	A

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Mol	Chain	Res	Type
29	D1	397	A
29	D1	398	A
29	D1	399	A
29	D1	400	G
29	D1	401	U
29	D1	402	A
29	D1	403	C
29	D1	404	G
29	D1	419	G
29	D1	421	G
29	D1	422	A
29	D1	423	A
29	D1	424	G
29	D1	425	G
29	D1	428	A
29	D1	429	U
29	D1	431	U
29	D1	432	G
29	D1	439	C
29	D1	493	G
29	D1	495	G
29	D1	499	G
29	D1	500	C
29	D1	502	U
29	D1	504	A
29	D1	509	U
29	D1	511	G
29	D1	514	G
29	D1	515	C
29	D1	516	A
29	D1	517	G
29	D1	518	G
29	D1	519	A
29	D1	520	U
29	D1	521	A
29	D1	523	A
29	D1	524	U
29	D1	525	C
29	D1	528	U
29	D1	529	A
29	D1	533	A
29	D1	536	U

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Mol	Chain	Res	Type
29	D1	537	A
29	D1	538	G
29	D1	539	C
29	D1	540	U
29	D1	541	U
29	D1	544	C
29	D1	546	C
29	D1	547	G
29	D1	548	G
29	D1	549	U
29	D1	550	A
29	D1	556	U
29	D1	559	A
29	D1	560	G
29	D1	561	C
29	D1	562	C
29	D1	563	U
29	D1	564	G
29	D1	565	U
29	D1	566	G
29	D1	571	U
29	D1	574	U
29	D1	575	G
29	D1	576	C
29	D1	577	C
29	D1	578	A
29	D1	579	G
29	D1	580	C
29	D1	586	C
29	D1	588	G
29	D1	590	G
29	D1	591	G
29	D1	592	A
29	D1	593	C
29	D1	594	U
29	D1	595	G
29	D1	597	G
29	D1	602	A
29	D1	603	A
29	D1	604	G
29	D1	605	U
29	D1	606	C

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Mol	Chain	Res	Type
29	D1	607	A
29	D1	608	A
29	D1	609	G
29	D1	610	G
29	D1	611	A
29	D1	612	U
29	D1	619	A
29	D1	620	U
29	D1	621	A
29	D1	622	A
29	D1	624	G
29	D1	625	G
29	D1	626	U
29	D1	628	A
29	D1	630	A
29	D1	632	G
29	D1	636	C
29	D1	637	C
29	D1	641	C
29	D1	642	U
29	D1	645	A
29	D1	647	A
29	D1	648	C
29	D1	649	A
29	D1	650	C
29	D1	651	G
29	D1	656	A
29	D1	657	A
29	D1	661	G
29	D1	666	A
29	D1	667	C
29	D1	669	U
29	D1	674	G
29	D1	675	C
29	D1	677	A
29	D1	679	U
29	D1	680	G
29	D1	681	U
29	D1	682	U
29	D1	683	U
29	D1	691	A
29	D1	692	A

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Mol	Chain	Res	Type
29	D1	694	C
29	D1	697	A
29	D1	699	A
29	D1	705	A
29	D1	706	A
29	D1	712	G
29	D1	714	G
29	D1	715	A
29	D1	716	A
29	D1	717	C
29	D1	718	G
29	D1	719	U
29	D1	720	A
29	D1	721	G
29	D1	722	G
29	D1	723	U
29	D1	724	U
29	D1	725	G
29	D1	726	G
29	D1	727	G
29	D1	728	G
29	D1	731	U
29	D1	732	C
29	D1	733	G
29	D1	734	C
29	D1	735	A
29	D1	736	A
29	D1	738	A
29	D1	741	U
29	D1	743	C
29	D1	744	A
29	D1	745	C
29	D1	746	A
29	D1	747	A
29	D1	748	U
29	D1	749	C
29	D1	751	A
29	D1	752	C
29	D1	753	C
29	D1	756	U
29	D1	757	C
29	D1	758	C

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Mol	Chain	Res	Type
29	D1	759	U
29	D1	761	A
29	D1	762	U
29	D1	764	U
29	D1	765	C
29	D1	766	U
29	D1	767	U
29	D1	768	C
29	D1	769	G
29	D1	770	G
29	D1	771	A
29	D1	772	U
29	D1	776	U
29	D1	777	U
29	D1	778	U
29	D1	779	G
29	D1	781	G
29	D1	782	U
29	D1	784	A
29	D1	785	G
29	D1	786	A
29	D1	787	G
29	D1	788	C
29	D1	791	A
29	D1	794	U
29	D1	799	G
29	D1	802	C
29	D1	803	C
29	D1	805	G
29	D1	806	A
29	D1	807	A
29	D1	808	A
29	D1	809	G
29	D1	815	G
29	D1	817	A
29	D1	822	G
29	D1	825	U
29	D1	826	G
29	D1	828	A
29	D1	830	A
29	D1	831	G
29	D1	834	U

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Mol	Chain	Res	Type
29	D1	835	G
29	D1	836	A
29	D1	837	A
29	D1	838	G
29	D1	841	A
29	D1	845	G
29	D1	846	A
29	D1	847	A
29	D1	857	G
29	D1	858	A
29	D1	859	G
29	D1	860	G
29	D1	861	C
29	D1	870	G
29	D1	871	U
29	D1	874	U
29	D1	875	G
29	D1	879	U
29	D1	880	G
29	D1	882	A
29	D1	884	A
29	D1	886	C
29	D1	887	G
29	D1	888	A
29	D1	894	G
29	D1	895	A
29	D1	896	A
29	D1	897	U
29	D1	901	G
29	D1	903	U
29	D1	904	A
29	D1	907	G
29	D1	908	G
29	D1	909	G
29	D1	911	C
29	D1	913	A
29	D1	914	A
29	D1	915	A
29	D1	916	G
29	D1	917	A
29	D1	920	A
29	D1	921	A

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Mol	Chain	Res	Type
29	D1	922	U
29	D1	923	C
29	D1	924	G
29	D1	933	A
29	D1	934	G
29	D1	935	U
29	D1	937	G
29	D1	939	U
29	D1	943	U
29	D1	944	C
29	D1	945	C
29	D1	949	C
29	D1	952	A
29	D1	953	G
29	D1	954	U
29	D1	957	C
29	D1	958	C
29	D1	960	U
29	D1	961	C
29	D1	962	A
29	D1	963	G
29	D1	967	A
29	D1	970	A
29	D1	971	G
29	D1	973	A
29	D1	974	G
29	D1	975	C
29	D1	978	G
29	D1	979	U
29	D1	980	A
29	D1	981	U
29	D1	984	G
29	D1	987	U
29	D1	994	G
29	D1	995	U
29	D1	996	A
29	D1	1000	C
29	D1	1002	A
29	D1	1006	A
29	D1	1007	U
29	D1	1010	G
29	D1	1011	A

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Mol	Chain	Res	Type
29	D1	1013	G
29	D1	1014	U
29	D1	1015	U
29	D1	1017	C
29	D1	1019	G
29	D1	1024	G
29	D1	1026	A
29	D1	1027	A
29	D1	1030	A
29	D1	1033	U
29	D1	1036	A
29	D1	1038	C
29	D1	1039	U
29	D1	1041	U
29	D1	1042	U
29	D1	1047	A
29	D1	1048	A
29	D1	1049	C
29	D1	1051	U
29	D1	1053	A
29	D1	1060	U
29	D1	1061	A
29	D1	1063	G
29	D1	1064	A
29	D1	1065	A
29	D1	1066	G
29	D1	1067	U
29	D1	1068	C
29	D1	1071	U
29	D1	1074	U
29	D1	1075	A
29	D1	1077	U
29	D1	1078	U
29	D1	1079	A
29	D1	1080	A
29	D1	1081	U
29	D1	1082	U
29	D1	1085	A
29	D1	1093	A
29	D1	1094	U
29	D1	1095	U
29	D1	1096	U

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Mol	Chain	Res	Type
29	D1	1097	G
29	D1	1098	A
29	D1	1100	U
29	D1	1101	G
29	D1	1102	A
29	D1	1103	A
29	D1	1104	G
29	D1	1109	U
29	D1	1113	G
29	D1	1115	G
29	D1	1116	G
29	D1	1117	G
29	D1	1119	C
29	D1	1120	A
29	D1	1123	U
29	D1	1124	U
29	D1	1128	U
29	D1	1129	A
29	D1	1130	A
29	D1	1131	G
29	D1	1132	C
29	D1	1133	A
29	D1	1136	A
29	D1	1139	G
29	D1	1140	G
29	D1	1143	A
29	D1	1144	U
29	D1	1145	G
29	D1	1149	G
29	D1	1151	U
29	D1	1152	G
29	D1	1153	A
29	D1	1154	A
29	D1	1155	C
29	D1	1157	G
29	D1	1158	A
29	D1	1159	A
29	D1	1160	C
29	D1	1162	U
29	D1	1163	A
29	D1	1168	U
29	D1	1169	A

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Mol	Chain	Res	Type
29	D1	1174	G
29	D1	1175	C
29	D1	1176	C
29	D1	1177	G
29	D1	1178	G
29	D1	1179	A
29	D1	1180	A
29	D1	1181	U
29	D1	1184	A
29	D1	1187	C
29	D1	1189	C
29	D1	1190	A
29	D1	1191	U
29	D1	1192	C
29	D1	1193	A
29	D1	1194	G
29	D1	1195	A
29	D1	1196	C
29	D1	1197	A
29	D1	1198	C
29	D1	1199	C
29	D1	1200	A
29	D1	1201	C
29	D1	1202	A
29	D1	1205	A
29	D1	1206	G
29	D1	1207	G
29	D1	1208	U
29	D1	1209	G
29	D1	1211	U
29	D1	1212	A
29	D1	1213	G
29	D1	1214	U
29	D1	1217	A
29	D1	1218	U
29	D1	1219	C
29	D1	1220	U
29	D1	1221	A
29	D1	1222	G
29	D1	1223	A
29	D1	1224	C
29	D1	1225	A

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Mol	Chain	Res	Type
29	D1	1226	G
29	D1	1227	C
29	D1	1228	C
29	D1	1229	G
29	D1	1235	U
29	D1	1236	G
29	D1	1237	G
29	D1	1239	C
29	D1	1240	A
29	D1	1241	U
29	D1	1242	G
29	D1	1244	A
29	D1	1245	A
29	D1	1246	G
29	D1	1248	C
29	D1	1249	G
29	D1	1251	A
29	D1	1253	U
29	D1	1254	C
29	D1	1256	G
29	D1	1257	C
29	D1	1258	U
29	D1	1259	A
29	D1	1261	G
29	D1	1262	G
29	D1	1263	A
29	D1	1264	G
29	D1	1265	U
29	D1	1268	G
29	D1	1269	U
29	D1	1270	A
29	D1	1272	C
29	D1	1273	A
29	D1	1274	A
29	D1	1275	C
29	D1	1277	C
29	D1	1278	A
29	D1	1279	C
29	D1	1280	C
29	D1	1284	C
29	D1	1286	A
29	D1	1287	A

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Mol	Chain	Res	Type
29	D1	1288	U
29	D1	1289	G
29	D1	1290	A
29	D1	1291	A
29	D1	1292	C
29	D1	1294	A
29	D1	1295	G
29	D1	1296	C
29	D1	1297	C
29	D1	1298	C
29	D1	1299	U
29	D1	1303	A
29	D1	1305	U
29	D1	1307	G
29	D1	1308	A
29	D1	1309	U
29	D1	1310	G
29	D1	1313	G
29	D1	1314	C
29	D1	1315	U
29	D1	1316	C
29	D1	1317	A
29	D1	1318	A
29	D1	1320	C
29	D1	1324	U
29	D1	1325	U
29	D1	1326	A
29	D1	1330	A
29	D1	1331	U
29	D1	1332	A
29	D1	1338	C
29	D1	1341	U
29	D1	1342	C
29	D1	1348	U
29	D1	1349	G
29	D1	1350	A
29	D1	1351	U
29	D1	1352	A
29	D1	1353	U
29	D1	1354	G
29	D1	1355	A
29	D1	1356	U

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Mol	Chain	Res	Type
29	D1	1365	G
29	D1	1367	G
29	D1	1368	U
29	D1	1370	G
29	D1	1371	G
29	D1	1373	A
29	D1	1378	U
29	D1	1379	G
29	D1	1380	G
29	D1	1384	U
29	D1	1385	C
29	D1	1386	A
29	D1	1389	G
29	D1	1390	A
29	D1	1392	G
29	D1	1394	A
29	D1	1395	G
29	D1	1398	U
29	D1	1399	A
29	D1	1400	G
29	D1	1404	G
29	D1	1405	U
29	D1	1406	A
29	D1	1407	A
29	D1	1408	G
29	D1	1410	U
29	D1	1412	G
29	D1	1416	C
29	D1	1418	A
29	D1	1419	A
29	D1	1428	A
29	D1	1429	G
29	D1	1430	U
29	D1	1431	G
29	D1	1434	G
29	D1	1435	A
29	D1	1437	C
29	D1	1440	G
29	D1	1441	G
29	D1	1442	U
29	D1	1443	G
29	D1	1445	U

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Mol	Chain	Res	Type
29	D1	1446	A
29	D1	1450	G
29	D1	1453	A
29	D1	1455	U
29	D1	1456	A
29	D1	1460	A
29	D1	1462	A
29	D1	1465	A
29	D1	1467	A
29	D1	1468	A
29	D1	1469	C
29	D1	1470	U
29	D1	1478	C
29	D1	1479	U
29	D1	1480	G
29	D1	1481	A
29	D1	1482	A
29	D1	1483	G
29	D1	1484	U
29	D1	1485	G
29	D1	1488	G
29	D1	1493	G
29	D1	1495	U
29	D1	1496	C
29	D1	1497	C
29	D1	1501	U
29	D1	1503	A
29	D1	1504	A
29	D1	1505	C
29	D1	1506	A
29	D1	1507	G
29	D1	1508	C
29	D1	1510	G
29	D1	1511	U
29	D1	1512	U
29	D1	1520	G
29	D1	1521	G
29	D1	1524	A
29	D1	1525	G
29	D1	1527	C
29	D1	1530	U
29	D1	1531	C

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Mol	Chain	Res	Type
29	D1	1533	U
29	D1	1536	G
29	D1	1539	A
29	D1	1540	U
29	D1	1542	G
29	D1	1548	C
29	D1	1549	U
29	D1	1551	C
29	D1	1552	G
29	D1	1553	U
29	D1	1554	U
29	D1	1556	C
29	D1	1557	A
29	D1	1558	A
29	D1	1559	A
29	D1	1560	G
29	D1	1567	U
29	D1	1568	U
29	D1	1572	U
29	D1	1575	A
29	D1	1579	C
29	D1	1580	A
29	D1	1581	C
29	D1	1582	C
29	D1	1583	A
29	D1	1584	U
29	D1	1587	A
29	D1	1589	A
29	D1	1593	A
29	D1	1595	U
29	D1	1596	C
29	D1	1601	U
29	D1	1602	A
29	D1	1605	A
29	D1	1606	U
29	D1	1607	U
29	D1	1608	C
29	D1	1609	C
29	D1	1610	G
29	D1	1620	U
29	D1	1622	U
29	D1	1626	U

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Mol	Chain	Res	Type
29	D1	1627	U
29	D1	1628	C
29	D1	1629	U
29	D1	1630	U
29	D1	1631	C
29	D1	1632	A
29	D1	1633	C
29	D1	1634	G
29	D1	1635	G
29	D1	1636	U
29	D1	1638	A
29	D1	1639	C
29	D1	1641	U
29	D1	1643	A
29	D1	1644	C
29	D1	1645	U
29	D1	1646	G
29	D1	1647	A
29	D1	1652	G
29	D1	1653	G
29	D1	1654	A
29	D1	1655	G
29	D1	1656	A
29	D1	1661	G
29	D1	1667	A
29	D1	1668	G
29	D1	1671	C
29	D1	1672	U
29	D1	1678	G
29	D1	1681	U
29	D1	1682	U
29	D1	1683	A
29	D1	1684	U
29	D1	1685	C
29	D1	1686	U
29	D1	1687	U
29	D1	1688	U
29	D1	1689	U
29	D1	1692	U
29	D1	1694	U
29	D1	1698	C
29	D1	1699	A

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Mol	Chain	Res	Type
29	D1	1701	C
29	D1	1703	U
29	D1	1704	A
29	D1	1706	C
29	D1	1708	C
29	D1	1710	C
29	D1	1713	G
29	D1	1714	A
29	D1	1716	U
29	D1	1717	U
29	D1	1724	U
29	D1	1725	C
29	D1	1726	C
29	D1	1727	G
29	D1	1728	G
29	D1	1729	A
29	D1	1730	G
29	D1	1734	G
29	D1	1735	G
29	D1	1736	G
29	D1	1739	U
29	D1	1740	U
29	D1	1744	G
29	D1	1750	A
29	D1	1754	G
29	D1	1756	C
29	D1	1760	A
29	D1	1762	C
29	D1	1766	G
29	D1	1769	G
29	D1	1773	C
29	D1	1774	C
29	D1	1775	G
29	D1	1779	C
29	D1	1780	G
29	D1	1781	C
29	D1	1782	U
29	D1	1783	U
29	D1	1786	G
29	D1	1787	A
29	D1	1788	C
29	D1	1792	C

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Mol	Chain	Res	Type
29	D1	1793	C
29	D1	1794	G
29	D1	1795	U
29	D1	1796	G
29	D1	1797	A
29	D1	1802	C
29	D1	1803	C
29	D1	1806	A
29	D1	1807	G
29	D1	1808	G
29	D1	1809	A
29	D1	1810	A
29	D1	1812	G
29	D1	1813	A
29	D1	1814	A
29	D1	1815	U
29	D1	1816	A
29	D1	1820	U
29	D1	1821	U
29	D1	1822	C
29	D1	1830	G
29	D1	1834	U
29	D1	1839	A
29	D1	1840	U
29	D1	1841	A
29	D1	1842	A
29	D1	1844	C
29	D1	1845	G
29	D1	1846	C
29	D1	1847	A
29	D1	1849	C
29	D1	1852	G
29	D1	1853	U
29	D1	1855	U
29	D1	1857	C
29	D1	1858	A
29	D1	1859	A
29	D1	1864	A
29	D1	1871	U
29	D1	1875	G
29	D1	1876	U
29	D1	1877	U

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Mol	Chain	Res	Type
29	D1	1878	G
29	D1	1879	A
29	D1	1880	U
29	D1	1882	G
29	D1	1885	U
29	D1	1886	A
29	D1	1888	U
29	D1	1889	G
29	D1	1891	A
29	D1	1901	A
29	D1	1905	G
29	D1	1906	G
29	D1	1907	C
29	D1	1913	A
29	D1	1914	G
29	D1	1920	U
29	D1	1921	A
29	D1	1925	U
29	D1	1926	C
29	D1	1927	G
29	D1	1928	G
29	D1	1931	U
29	D1	1932	A
29	D1	1933	A
29	D1	1935	G
29	D1	1941	C
29	D1	1946	A
29	D1	1947	G
29	D1	1948	G
29	D1	1950	U
29	D1	2093	A
29	D1	2095	G
29	D1	2096	A
29	D1	2102	U
29	D1	2105	G
29	D1	2106	A
29	D1	2111	G
29	D1	2112	U
29	D1	2113	A
29	D1	2114	C
29	D1	2115	G
29	D1	2117	A

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Mol	Chain	Res	Type
29	D1	2121	G
29	D1	2122	G
29	D1	2126	A
29	D1	2129	U
29	D1	2131	A
29	D1	2132	C
29	D1	2133	U
29	D1	2137	U
29	D1	2138	A
29	D1	2139	A
29	D1	2141	U
29	D1	2144	A
29	D1	2147	A
29	D1	2148	U
29	D1	2149	A
29	D1	2150	G
29	D1	2151	C
29	D1	2152	A
29	D1	2158	A
29	D1	2161	G
29	D1	2168	A
29	D1	2169	G
29	D1	2172	A
29	D1	2173	U
29	D1	2174	G
29	D1	2176	U
29	D1	2178	A
29	D1	2185	G
29	D1	2187	G
29	D1	2191	U
29	D1	2193	U
29	D1	2194	G
29	D1	2195	C
29	D1	2201	G
29	D1	2205	U
29	D1	2206	G
29	D1	2207	A
29	D1	2208	A
29	D1	2209	U
29	D1	2210	G
29	D1	2211	U
29	D1	2215	A

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Mol	Chain	Res	Type
29	D1	2222	A
29	D1	2223	A
29	D1	2224	A
29	D1	2227	C
29	D1	2244	A
29	D1	2247	G
29	D1	2248	C
29	D1	2249	G
29	D1	2250	G
29	D1	2252	A
29	D1	2254	U
29	D1	2255	A
29	D1	2256	A
29	D1	2257	C
29	D1	2259	A
29	D1	2260	U
29	D1	2261	G
29	D1	2262	A
29	D1	2263	C
29	D1	2266	U
29	D1	2270	A
29	D1	2271	A
29	D1	2272	G
29	D1	2273	G
29	D1	2275	A
29	D1	2276	G
29	D1	2277	C
29	D1	2280	A
29	D1	2281	A
29	D1	2282	U
29	D1	2283	G
29	D1	2286	U
29	D1	2288	G
29	D1	2290	C
29	D1	2291	A
29	D1	2292	U
29	D1	2295	A
29	D1	2296	A
29	D1	2297	U
29	D1	2298	U
29	D1	2299	A
29	D1	2303	A

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Mol	Chain	Res	Type
29	D1	2306	C
29	D1	2307	G
29	D1	2308	C
29	D1	2309	A
29	D1	2310	U
29	D1	2311	G
29	D1	2313	A
29	D1	2314	U
29	D1	2315	G
29	D1	2320	A
29	D1	2324	A
29	D1	2326	A
29	D1	2327	U
29	D1	2329	C
29	D1	2330	C
29	D1	2334	U
29	D1	2335	G
29	D1	2336	U
29	D1	2339	C
29	D1	2341	A
29	D1	2342	U
29	D1	2344	U
29	D1	2345	A
29	D1	2360	C
29	D1	2361	A
29	D1	2362	C
29	D1	2363	A
29	D1	2364	G
29	D1	2365	C
29	D1	2371	G
29	D1	2372	A
29	D1	2373	A
29	D1	2374	C
29	D1	2375	G
29	D1	2377	G
29	D1	2379	U
29	D1	2383	C
29	D1	2384	A
29	D1	2385	G
29	D1	2386	A
29	D1	2393	G
29	D1	2397	A

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Mol	Chain	Res	Type
29	D1	2401	A
29	D1	2402	A
29	D1	2403	G
29	D1	2404	A
29	D1	2405	C
29	D1	2411	U
29	D1	2412	G
29	D1	2414	G
29	D1	2415	C
29	D1	2417	U
29	D1	2421	U
29	D1	2422	C
29	D1	2423	U
29	D1	2424	A
29	D1	2432	A
29	D1	2434	U
29	D1	2436	U
29	D1	2437	G
29	D1	2439	A
29	D1	2443	A
29	D1	2445	A
29	D1	2446	U
29	D1	2449	A
29	D1	2450	G
29	D1	2451	G
29	D1	2452	G
29	D1	2453	U
29	D1	2454	G
29	D1	2458	A
29	D1	2459	A
29	D1	2461	A
29	D1	2462	A
29	D1	2463	G
29	D1	2468	A
29	D1	2472	U
29	D1	2473	C
29	D1	2474	G
29	D1	2479	C
29	D1	2484	A
29	D1	2485	A
29	D1	2486	A
29	D1	2487	U

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Mol	Chain	Res	Type
29	D1	2488	A
29	D1	2491	A
29	D1	2492	C
29	D1	2493	U
29	D1	2499	U
29	D1	2500	A
29	D1	2501	U
29	D1	2502	A
29	D1	2503	G
29	D1	2504	U
29	D1	2508	U
29	D1	2511	A
29	D1	2512	C
29	D1	2513	U
29	D1	2514	U
29	D1	2515	A
29	D1	2516	U
29	D1	2517	U
29	D1	2520	A
29	D1	2521	U
29	D1	2522	G
29	D1	2523	A
29	D1	2524	A
29	D1	2525	G
29	D1	2526	C
29	D1	2528	G
29	D1	2530	G
29	D1	2531	C
29	D1	2536	A
29	D1	2539	C
29	D1	2540	A
29	D1	2541	U
29	D1	2542	U
29	D1	2543	U
29	D1	2547	A
29	D1	2548	C
29	D1	2549	G
29	D1	2550	U
29	D1	2552	C
29	D1	2553	U
29	D1	2554	A
29	D1	2555	G

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Mol	Chain	Res	Type
29	D1	2556	C
29	D1	2557	A
29	D1	2558	U
29	D1	2559	U
29	D1	2560	C
29	D1	2561	A
29	D1	2569	A
29	D1	2572	C
29	D1	2574	G
29	D1	2580	A
29	D1	2581	U
29	D1	2582	C
29	D1	2583	C
29	D1	2584	G
29	D1	2585	G
29	D1	2586	G
29	D1	2587	U
29	D1	2589	G
29	D1	2593	A
29	D1	2594	C
29	D1	2598	G
29	D1	2600	C
29	D1	2603	G
29	D1	2605	G
29	D1	2606	G
29	D1	2607	G
29	D1	2612	U
29	D1	2613	U
29	D1	2614	G
29	D1	2618	G
29	D1	2619	G
29	D1	2624	G
29	D1	2626	A
29	D1	2627	C
29	D1	2628	A
29	D1	2629	U
29	D1	2631	U
29	D1	2636	A
29	D1	2637	A
29	D1	2638	C
29	D1	2639	G
29	D1	2642	A

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Mol	Chain	Res	Type
29	D1	2643	A
29	D1	2644	C
29	D1	2648	G
29	D1	2649	A
29	D1	2650	U
29	D1	2651	G
29	D1	2652	U
29	D1	2653	C
29	D1	2655	U
29	D1	2656	A
29	D1	2657	A
29	D1	2658	G
29	D1	2662	G
29	D1	2663	G
29	D1	2664	C
29	D1	2666	C
29	D1	2667	A
29	D1	2668	U
29	D1	2671	A
29	D1	2672	G
29	D1	2675	C
29	D1	2676	A
29	D1	2677	G
29	D1	2678	A
29	D1	2679	A
29	D1	2681	U
29	D1	2682	C
29	D1	2683	U
29	D1	2684	C
29	D1	2685	C
29	D1	2686	A
29	D1	2687	G
29	D1	2688	U
29	D1	2689	A
29	D1	2690	G
29	D1	2691	A
29	D1	2693	C
29	D1	2694	A
29	D1	2695	A
29	D1	2696	A
29	D1	2697	A
29	D1	2699	G

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Mol	Chain	Res	Type
29	D1	2700	G
29	D1	2702	A
29	D1	2703	A
29	D1	2704	A
29	D1	2707	C
29	D1	2708	C
29	D1	2709	C
29	D1	2710	C
29	D1	2712	U
29	D1	2713	U
29	D1	2714	G
29	D1	2715	A
29	D1	2716	U
29	D1	2717	U
29	D1	2718	U
29	D1	2719	U
29	D1	2725	U
29	D1	2726	C
29	D1	2727	A
29	D1	2728	G
29	D1	2729	U
29	D1	2730	G
29	D1	2731	U
29	D1	2733	A
29	D1	2735	U
29	D1	2738	A
29	D1	2740	A
29	D1	2742	C
29	D1	2743	A
29	D1	2746	A
29	D1	2751	G
29	D1	2752	U
29	D1	2753	G
29	D1	2755	C
29	D1	2760	C
29	D1	2762	A
29	D1	2764	C
29	D1	2766	U
29	D1	2769	A
29	D1	2771	U
29	D1	2772	C
29	D1	2776	C

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Mol	Chain	Res	Type
29	D1	2777	G
29	D1	2778	G
29	D1	2779	A
29	D1	2780	A
29	D1	2782	U
29	D1	2784	G
29	D1	2786	G
29	D1	2787	G
29	D1	2790	A
29	D1	2796	G
29	D1	2798	C
29	D1	2799	A
29	D1	2801	A
29	D1	2802	A
29	D1	2804	A
29	D1	2805	G
29	D1	2807	U
29	D1	2809	C
29	D1	2810	C
29	D1	2814	G
29	D1	2816	G
29	D1	2817	A
29	D1	2818	U
29	D1	2822	U
29	D1	2825	C
29	D1	2826	U
29	D1	2828	G
29	D1	2829	U
29	D1	2830	G
29	D1	2833	A
29	D1	2834	G
29	D1	2835	U
29	D1	2836	C
29	D1	2838	A
29	D1	2839	G
29	D1	2840	C
29	D1	2842	U
29	D1	2843	U
29	D1	2844	C
29	D1	2845	A
29	D1	2846	U
29	D1	2847	A

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Mol	Chain	Res	Type
29	D1	2850	G
29	D1	2851	A
29	D1	2852	C
29	D1	2859	U
29	D1	2860	U
29	D1	2867	C
29	D1	2870	C
29	D1	2871	G
29	D1	2872	A
29	D1	2873	U
29	D1	2874	G
29	D1	2875	U
29	D1	2881	C
29	D1	2883	U
29	D1	2884	C
29	D1	2886	U
29	D1	2887	A
29	D1	2888	U
29	D1	2894	C
29	D1	2896	A
29	D1	2897	A
29	D1	2898	G
29	D1	2899	C
29	D1	2900	A
29	D1	2901	G
29	D1	2905	U
29	D1	2911	A
29	D1	2912	G
29	D1	2914	G
29	D1	2915	U
29	D1	2916	U
29	D1	2918	G
29	D1	2919	A
29	D1	2920	U
29	D1	2922	G
29	D1	2923	U
29	D1	2928	C
29	D1	2929	C
29	D1	2930	A
29	D1	2932	U
29	D1	2935	U
29	D1	2936	A

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Mol	Chain	Res	Type
29	D1	2939	G
29	D1	2941	A
29	D1	2942	C
29	D1	2943	G
29	D1	2944	U
29	D1	2945	G
29	D1	2947	G
29	D1	2954	U
29	D1	2956	A
29	D1	2957	G
29	D1	2960	C
29	D1	2961	G
29	D1	2962	U
29	D1	2965	U
29	D1	2968	G
29	D1	2971	A
29	D1	2972	G
29	D1	2973	G
29	D1	2978	U
29	D1	2979	U
29	D1	2983	C
29	D1	2984	C
29	D1	2986	U
29	D1	2987	A
29	D1	2988	C
29	D1	2989	U
29	D1	2990	G
29	D1	2993	G
29	D1	2996	U
29	D1	2997	G
29	D1	2998	U
29	D1	2999	U
29	D1	3000	A
29	D1	3003	G
29	D1	3004	C
29	D1	3005	A
29	D1	3006	A
29	D1	3007	U
29	D1	3010	U
29	D1	3011	A
29	D1	3012	A
29	D1	3013	U

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Mol	Chain	Res	Type
29	D1	3014	U
29	D1	3019	U
29	D1	3020	U
29	D1	3023	U
29	D1	3024	A
29	D1	3030	G
29	D1	3031	G
29	D1	3033	A
29	D1	3038	U
29	D1	3039	C
29	D1	3040	A
29	D1	3041	U
29	D1	3045	G
29	D1	3046	A
29	D1	3047	U
29	D1	3048	A
29	D1	3049	A
29	D1	3052	G
29	D1	3054	U
29	D1	3056	U
29	D1	3057	U
29	D1	3058	U
29	D1	3059	G
29	D1	3060	C
29	D1	3061	G
29	D1	3064	U
29	D1	3066	U
29	D1	3071	U
29	D1	3072	C
29	D1	3074	G
29	D1	3075	G
29	D1	3077	A
29	D1	3078	U
29	D1	3079	U
29	D1	3080	G
29	D1	3090	U
29	D1	3091	A
29	D1	3092	C
29	D1	3093	C
29	D1	3094	A
29	D1	3096	C
29	D1	3097	C

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Mol	Chain	Res	Type
29	D1	3098	G
29	D1	3099	C
29	D1	3100	U
29	D1	3101	G
29	D1	3102	G
29	D1	3103	A
29	D1	3104	U
29	D1	3105	U
29	D1	3107	U
29	D1	3115	C
29	D1	3116	G
29	D1	3120	C
29	D1	3121	U
29	D1	3122	A
29	D1	3123	A
29	D1	3126	C
29	D1	3127	A
29	D1	3128	G
29	D1	3129	A
29	D1	3130	A
29	D1	3131	U
29	D1	3133	C
29	D1	3134	A
29	D1	3136	G
29	D1	3137	C
29	D1	3138	U
29	D1	3139	A
29	D1	3140	G
29	D1	3141	A
29	D1	3142	A
29	D1	3143	C
29	D1	3144	G
29	D1	3145	C
29	D1	3149	G
29	D1	3151	U
29	D1	3152	U
29	D1	3153	U
29	D1	3154	C
29	D1	3157	U
29	D1	3159	C
29	D1	3160	U
29	D1	3161	C

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Mol	Chain	Res	Type
29	D1	3162	C
29	D1	3163	A
29	D1	3164	C
29	D1	3166	C
29	D1	3168	A
29	D1	3169	U
29	D1	3170	A
29	D1	3171	U
29	D1	3172	A
29	D1	3173	G
29	D1	3174	A
29	D1	3175	U
29	D1	3176	G
29	D1	3177	G
29	D1	3178	A
29	D1	3179	U
29	D1	3180	A
29	D1	3181	C
29	D1	3184	A
29	D1	3185	U
29	D1	3187	A
29	D1	3191	G
29	D1	3195	U
29	D1	3196	U
29	D1	3198	U
29	D1	3200	G
29	D1	3201	C
29	D1	3202	G
29	D1	3203	U
29	D1	3204	C
29	D1	3205	G
29	D1	3206	C
29	D1	3207	U
29	D1	3208	G
29	D1	3209	A
29	D1	3210	A
29	D1	3211	C
29	D1	3212	C
29	D1	3213	A
29	D1	3214	U
29	D1	3215	A
29	D1	3216	G

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Mol	Chain	Res	Type
29	D1	3217	C
29	D1	3218	A
29	D1	3219	G
29	D1	3220	G
29	D1	3223	A
29	D1	3225	C
29	D1	3227	A
29	D1	3228	C
29	D1	3229	G
29	D1	3237	U
29	D1	3238	G
29	D1	3242	G
29	D1	3243	A
29	D1	3244	A
29	D1	3245	A
29	D1	3246	G
29	D1	3254	G
29	D1	3257	C
29	D1	3258	U
29	D1	3259	U
29	D1	3260	G
29	D1	3261	C
29	D1	3262	U
29	D1	3263	G
29	D1	3265	C
29	D1	3267	A
29	D1	3268	A
29	D1	3269	U
29	D1	3270	U
29	D1	3271	G
29	D1	3272	C
29	D1	3273	A
29	D1	3274	A
29	D1	3275	U
29	D1	3276	G
29	D1	3277	U
29	D1	3279	A
29	D1	3280	U
29	D1	3281	U
29	D1	3282	U
29	D1	3283	U
29	D1	3285	C

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Mol	Chain	Res	Type
29	D1	3287	U
29	D1	3288	G
29	D1	3290	G
29	D1	3291	G
29	D1	3292	A
29	D1	3293	U
29	D1	3294	A
29	D1	3300	U
29	D1	3301	U
29	D1	3302	U
29	D1	3303	G
29	D1	3304	U
29	D1	3305	A
29	D1	3306	U
29	D1	3312	U
29	D1	3313	U
29	D1	3314	A
29	D1	3315	G
29	D1	3316	A
29	D1	3317	U
29	D1	3318	G
29	D1	3319	U
29	D1	3320	A
29	D1	3321	C
29	D1	3322	A
29	D1	3324	C
29	D1	3329	U
29	D1	3331	U
29	D1	3332	U
29	D1	3333	G
29	D1	3334	U
29	D1	3339	A
29	D1	3341	U
29	D1	3342	A
29	D1	3343	G
29	D1	3344	A
29	D1	3350	C
29	D1	3351	U
29	D1	3352	U
29	D1	3353	G
29	D1	3354	U
29	D1	3355	U

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Mol	Chain	Res	Type
29	D1	3356	G
29	D1	3357	U
29	D1	3358	U
29	D1	3359	A
29	D1	3360	C
29	D1	3361	G
29	D1	3362	A
29	D1	3363	U
29	D1	3369	G
29	D1	3370	A
29	D1	3371	G
29	D1	3375	A
29	D1	3376	A
29	D1	3377	G
29	D1	3378	C
29	D1	3379	C
29	D1	3381	U
29	D1	3382	U
29	D1	3383	G
29	D1	3384	U
29	D1	3387	U
29	D1	3389	U
29	D1	3390	G
29	D1	3392	U
29	D1	3394	U
29	D1	3395	G
29	D1	3396	U
30	D2	2	G
30	D2	5	G
30	D2	6	C
30	D2	9	C
30	D2	10	C
30	D2	11	A
30	D2	12	U
30	D2	13	A
30	D2	14	U
30	D2	15	C
30	D2	19	C
30	D2	22	A
30	D2	27	A
30	D2	29	C
30	D2	30	G

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Mol	Chain	Res	Type
30	D2	31	U
30	D2	33	U
30	D2	34	C
30	D2	35	C
30	D2	36	C
30	D2	38	U
30	D2	39	C
30	D2	40	C
30	D2	41	G
30	D2	42	A
30	D2	43	U
30	D2	44	C
30	D2	47	C
30	D2	48	U
30	D2	49	G
30	D2	50	U
30	D2	51	A
30	D2	54	U
30	D2	55	A
30	D2	56	A
30	D2	58	C
30	D2	63	A
30	D2	64	A
30	D2	65	G
30	D2	66	A
30	D2	68	C
30	D2	70	U
30	D2	75	G
30	D2	76	A
30	D2	78	U
30	D2	79	A
30	D2	81	U
30	D2	83	U
30	D2	87	G
30	D2	89	G
30	D2	92	A
30	D2	93	C
30	D2	96	U
30	D2	97	A
30	D2	98	C
30	D2	99	G
30	D2	103	A

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Mol	Chain	Res	Type
30	D2	105	C
30	D2	107	C
30	D2	109	G
30	D2	110	G
30	D2	112	G
30	D2	115	G
30	D2	118	A
30	D2	120	C
30	D2	121	U
31	D3	2	A
31	D3	6	U
31	D3	10	A
31	D3	12	A
31	D3	14	C
31	D3	23	U
31	D3	24	G
31	D3	25	G
31	D3	30	C
31	D3	33	A
31	D3	34	U
31	D3	38	U
31	D3	40	A
31	D3	41	A
31	D3	45	C
31	D3	49	G
31	D3	50	C
31	D3	51	G
31	D3	55	U
31	D3	59	A
31	D3	60	U
31	D3	61	A
31	D3	62	C
31	D3	63	G
31	D3	65	A
31	D3	67	U
31	D3	68	G
31	D3	70	G
31	D3	71	A
31	D3	72	A
31	D3	73	U
31	D3	75	G
31	D3	76	C

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Mol	Chain	Res	Type
31	D3	77	A
31	D3	78	G
31	D3	80	A
31	D3	82	U
31	D3	83	C
31	D3	85	G
31	D3	86	U
31	D3	87	G
31	D3	88	A
31	D3	89	A
31	D3	90	U
31	D3	93	U
31	D3	94	C
31	D3	95	G
31	D3	96	A
31	D3	97	A
31	D3	99	C
31	D3	101	U
31	D3	104	A
31	D3	105	A
31	D3	106	C
31	D3	107	G
31	D3	108	C
31	D3	110	C
31	D3	111	A
31	D3	112	U
31	D3	113	U
31	D3	114	G
31	D3	117	C
31	D3	124	G
31	D3	125	U
31	D3	126	A
31	D3	127	U
31	D3	128	U
31	D3	129	C
31	D3	130	C
31	D3	132	G
31	D3	138	A
31	D3	141	C
31	D3	145	U
31	D3	147	U
31	D3	149	A

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Mol	Chain	Res	Type
31	D3	151	C
31	D3	152	G
31	D3	157	U
31	D3	158	U

All (856) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A1	24	U
1	A1	40	A
1	A1	45	U
1	A1	61	A
1	A1	62	A
1	A1	65	A
1	A1	67	A
1	A1	68	A
1	A1	71	A
1	A1	78	A
1	A1	80	A
1	A1	103	A
1	A1	112	A
1	A1	114	C
1	A1	121	U
1	A1	125	U
1	A1	133	U
1	A1	135	A
1	A1	137	U
1	A1	139	C
1	A1	150	U
1	A1	160	C
1	A1	167	U
1	A1	183	U
1	A1	191	C
1	A1	195	G
1	A1	198	A
1	A1	203	U
1	A1	211	U
1	A1	217	A
1	A1	241	U
1	A1	243	G
1	A1	248	U
1	A1	254	A

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Mol	Chain	Res	Type
1	A1	262	U
1	A1	263	C
1	A1	270	C
1	A1	272	U
1	A1	284	G
1	A1	290	G
1	A1	295	A
1	A1	310	C
1	A1	320	U
1	A1	322	G
1	A1	351	C
1	A1	358	U
1	A1	380	U
1	A1	386	G
1	A1	399	A
1	A1	400	A
1	A1	416	A
1	A1	417	A
1	A1	427	C
1	A1	438	A
1	A1	439	U
1	A1	447	U
1	A1	511	A
1	A1	515	A
1	A1	521	A
1	A1	525	A
1	A1	528	U
1	A1	540	G
1	A1	541	A
1	A1	555	A
1	A1	577	G
1	A1	594	A
1	A1	607	G
1	A1	622	A
1	A1	659	C
1	A1	699	U
1	A1	704	C
1	A1	720	G
1	A1	721	U
1	A1	750	U
1	A1	755	A
1	A1	765	G

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Mol	Chain	Res	Type
1	A1	782	U
1	A1	807	A
1	A1	820	U
1	A1	827	C
1	A1	829	A
1	A1	842	C
1	A1	846	G
1	A1	859	A
1	A1	913	G
1	A1	914	G
1	A1	932	U
1	A1	959	U
1	A1	963	A
1	A1	964	U
1	A1	986	G
1	A1	1003	A
1	A1	1045	C
1	A1	1091	A
1	A1	1094	G
1	A1	1097	U
1	A1	1100	G
1	A1	1107	G
1	A1	1110	G
1	A1	1139	A
1	A1	1142	A
1	A1	1149	G
1	A1	1150	G
1	A1	1185	U
1	A1	1190	C
1	A1	1196	A
1	A1	1200	G
1	A1	1202	A
1	A1	1203	A
1	A1	1204	A
1	A1	1207	C
1	A1	1255	G
1	A1	1269	U
1	A1	1274	C
1	A1	1285	U
1	A1	1305	U
1	A1	1344	A
1	A1	1349	G

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Mol	Chain	Res	Type
1	A1	1392	U
1	A1	1435	G
1	A1	1458	G
1	A1	1472	C
1	A1	1478	G
1	A1	1480	G
1	A1	1481	C
1	A1	1492	A
1	A1	1513	G
1	A1	1522	U
1	A1	1539	G
1	A1	1560	U
1	A1	1567	U
1	A1	1573	A
1	A1	1574	G
1	A1	1580	C
1	A1	1591	C
1	A1	1609	U
1	A1	1633	A
1	A1	1634	C
1	A1	1636	C
1	A1	1645	G
1	A1	1657	U
1	A1	1694	A
1	A1	1754	A
1	A1	1761	U
1	A1	1764	C
1	A1	1779	U
1	A1	1791	A
1	A1	1793	G
29	B1	14	U
29	B1	15	C
29	B1	20	A
29	B1	42	C
29	B1	48	A
29	B1	65	A
29	B1	88	A
29	B1	92	G
29	B1	97	U
29	B1	102	C
29	B1	120	G
29	B1	152	U

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Mol	Chain	Res	Type
29	B1	154	U
29	B1	155	G
29	B1	156	G
29	B1	157	A
29	B1	191	U
29	B1	200	C
29	B1	209	A
29	B1	210	U
29	B1	249	U
29	B1	251	G
29	B1	265	A
29	B1	282	G
29	B1	304	G
29	B1	326	U
29	B1	327	A
29	B1	329	U
29	B1	330	G
29	B1	332	C
29	B1	340	C
29	B1	344	A
29	B1	369	A
29	B1	379	C
29	B1	396	A
29	B1	400	G
29	B1	422	A
29	B1	423	A
29	B1	424	G
29	B1	425	G
29	B1	431	U
29	B1	516	A
29	B1	520	U
29	B1	524	U
29	B1	536	U
29	B1	560	G
29	B1	561	C
29	B1	574	U
29	B1	575	G
29	B1	576	C
29	B1	577	C
29	B1	590	G
29	B1	603	A
29	B1	604	G

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Mol	Chain	Res	Type
29	B1	605	U
29	B1	609	G
29	B1	620	U
29	B1	625	G
29	B1	641	C
29	B1	647	A
29	B1	666	A
29	B1	674	G
29	B1	698	U
29	B1	705	A
29	B1	715	A
29	B1	718	G
29	B1	720	A
29	B1	746	A
29	B1	747	A
29	B1	758	C
29	B1	769	G
29	B1	806	A
29	B1	834	U
29	B1	845	G
29	B1	857	G
29	B1	858	A
29	B1	908	G
29	B1	914	A
29	B1	943	U
29	B1	953	G
29	B1	975	C
29	B1	979	U
29	B1	1005	G
29	B1	1026	A
29	B1	1038	C
29	B1	1062	A
29	B1	1063	G
29	B1	1076	C
29	B1	1102	A
29	B1	1103	A
29	B1	1130	A
29	B1	1139	G
29	B1	1143	A
29	B1	1144	U
29	B1	1152	G
29	B1	1154	A

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Mol	Chain	Res	Type
29	B1	1157	G
29	B1	1159	A
29	B1	1167	U
29	B1	1177	G
29	B1	1197	A
29	B1	1202	A
29	B1	1207	G
29	B1	1211	U
29	B1	1260	A
29	B1	1286	A
29	B1	1289	G
29	B1	1291	A
29	B1	1294	A
29	B1	1296	C
29	B1	1306	G
29	B1	1307	G
29	B1	1317	A
29	B1	1329	U
29	B1	1331	U
29	B1	1367	G
29	B1	1389	G
29	B1	1398	U
29	B1	1428	A
29	B1	1454	A
29	B1	1468	A
29	B1	1469	C
29	B1	1478	C
29	B1	1482	A
29	B1	1483	G
29	B1	1484	U
29	B1	1503	A
29	B1	1504	A
29	B1	1505	C
29	B1	1520	G
29	B1	1524	A
29	B1	1588	A
29	B1	1607	U
29	B1	1627	U
29	B1	1640	G
29	B1	1641	U
29	B1	1654	A
29	B1	1685	C

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Mol	Chain	Res	Type
29	B1	1686	U
29	B1	1716	U
29	B1	1728	G
29	B1	1779	C
29	B1	1780	G
29	B1	1792	C
29	B1	1793	C
29	B1	1795	U
29	B1	1808	G
29	B1	1841	A
29	B1	1876	U
29	B1	1877	U
29	B1	1912	U
29	B1	2105	G
29	B1	2112	U
29	B1	2147	A
29	B1	2148	U
29	B1	2151	C
29	B1	2193	U
29	B1	2211	U
29	B1	2251	G
29	B1	2254	U
29	B1	2255	A
29	B1	2270	A
29	B1	2280	A
29	B1	2281	A
29	B1	2290	C
29	B1	2297	U
29	B1	2372	A
29	B1	2385	G
29	B1	2400	G
29	B1	2403	G
29	B1	2414	G
29	B1	2423	U
29	B1	2487	U
29	B1	2501	U
29	B1	2513	U
29	B1	2516	U
29	B1	2522	G
29	B1	2523	A
29	B1	2549	G
29	B1	2555	G

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Mol	Chain	Res	Type
29	B1	2580	A
29	B1	2593	A
29	B1	2618	G
29	B1	2652	U
29	B1	2656	A
29	B1	2684	C
29	B1	2688	U
29	B1	2699	G
29	B1	2707	C
29	B1	2717	U
29	B1	2727	A
29	B1	2728	G
29	B1	2775	U
29	B1	2779	A
29	B1	2799	A
29	B1	2804	A
29	B1	2805	G
29	B1	2808	A
29	B1	2817	A
29	B1	2834	G
29	B1	2850	G
29	B1	2851	A
29	B1	2859	U
29	B1	2872	A
29	B1	2896	A
29	B1	2898	G
29	B1	2900	A
29	B1	2948	C
29	B1	2996	U
29	B1	2997	G
29	B1	2998	U
29	B1	2999	U
29	B1	3002	C
29	B1	3013	U
29	B1	3023	U
29	B1	3024	A
29	B1	3030	G
29	B1	3045	G
29	B1	3047	U
29	B1	3058	U
29	B1	3059	G
29	B1	3071	U

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Mol	Chain	Res	Type
29	B1	3078	U
29	B1	3090	U
29	B1	3093	C
29	B1	3097	C
29	B1	3098	G
29	B1	3099	C
29	B1	3102	G
29	B1	3121	U
29	B1	3137	C
29	B1	3139	A
29	B1	3143	C
29	B1	3144	G
29	B1	3151	U
29	B1	3152	U
29	B1	3168	A
29	B1	3171	U
29	B1	3173	G
29	B1	3179	U
29	B1	3180	A
29	B1	3204	C
29	B1	3205	G
29	B1	3211	C
29	B1	3257	C
29	B1	3268	A
29	B1	3274	A
29	B1	3290	G
29	B1	3291	G
29	B1	3299	A
29	B1	3303	G
29	B1	3313	U
29	B1	3316	A
29	B1	3328	G
29	B1	3331	U
29	B1	3351	U
29	B1	3356	G
29	B1	3377	G
29	B1	3386	G
30	B2	12	U
30	B2	13	A
30	B2	14	U
30	B2	26	C
30	B2	35	C

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Mol	Chain	Res	Type
30	B2	38	U
30	B2	55	A
30	B2	62	U
30	B2	64	A
30	B2	77	G
30	B2	92	A
30	B2	109	G
31	B3	22	U
31	B3	40	A
31	B3	70	G
31	B3	71	A
31	B3	76	C
31	B3	94	C
31	B3	106	C
31	B3	111	A
31	B3	113	U
1	C1	24	U
1	C1	40	A
1	C1	44	U
1	C1	45	U
1	C1	61	A
1	C1	62	A
1	C1	65	A
1	C1	67	A
1	C1	68	A
1	C1	71	A
1	C1	78	A
1	C1	80	A
1	C1	103	A
1	C1	112	A
1	C1	114	C
1	C1	125	U
1	C1	133	U
1	C1	135	A
1	C1	137	U
1	C1	139	C
1	C1	150	U
1	C1	160	C
1	C1	167	U
1	C1	175	G
1	C1	183	U
1	C1	191	C

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Mol	Chain	Res	Type
1	C1	195	G
1	C1	198	A
1	C1	203	U
1	C1	211	U
1	C1	217	A
1	C1	241	U
1	C1	243	G
1	C1	248	U
1	C1	254	A
1	C1	262	U
1	C1	263	C
1	C1	270	C
1	C1	272	U
1	C1	284	G
1	C1	290	G
1	C1	295	A
1	C1	310	C
1	C1	320	U
1	C1	322	G
1	C1	351	C
1	C1	358	U
1	C1	373	G
1	C1	380	U
1	C1	386	G
1	C1	399	A
1	C1	400	A
1	C1	416	A
1	C1	417	A
1	C1	427	C
1	C1	438	A
1	C1	439	U
1	C1	447	U
1	C1	453	U
1	C1	511	A
1	C1	515	A
1	C1	521	A
1	C1	525	A
1	C1	528	U
1	C1	540	G
1	C1	541	A
1	C1	555	A
1	C1	577	G

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Mol	Chain	Res	Type
1	C1	594	A
1	C1	607	G
1	C1	622	A
1	C1	659	C
1	C1	717	C
1	C1	718	U
1	C1	719	U
1	C1	721	U
1	C1	722	G
1	C1	750	U
1	C1	755	A
1	C1	765	G
1	C1	782	U
1	C1	807	A
1	C1	820	U
1	C1	827	C
1	C1	829	A
1	C1	842	C
1	C1	846	G
1	C1	859	A
1	C1	913	G
1	C1	914	G
1	C1	932	U
1	C1	959	U
1	C1	963	A
1	C1	964	U
1	C1	986	G
1	C1	1003	A
1	C1	1045	C
1	C1	1091	A
1	C1	1094	G
1	C1	1097	U
1	C1	1100	G
1	C1	1107	G
1	C1	1110	G
1	C1	1139	A
1	C1	1142	A
1	C1	1149	G
1	C1	1150	G
1	C1	1185	U
1	C1	1190	C
1	C1	1196	A

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Mol	Chain	Res	Type
1	C1	1200	G
1	C1	1202	A
1	C1	1203	A
1	C1	1204	A
1	C1	1207	C
1	C1	1255	G
1	C1	1269	U
1	C1	1285	U
1	C1	1305	U
1	C1	1344	A
1	C1	1349	G
1	C1	1392	U
1	C1	1435	G
1	C1	1458	G
1	C1	1472	C
1	C1	1478	G
1	C1	1480	G
1	C1	1481	C
1	C1	1492	A
1	C1	1513	G
1	C1	1522	U
1	C1	1539	G
1	C1	1560	U
1	C1	1567	U
1	C1	1573	A
1	C1	1574	G
1	C1	1580	C
1	C1	1591	C
1	C1	1609	U
1	C1	1633	A
1	C1	1634	C
1	C1	1636	C
1	C1	1657	U
1	C1	1694	A
1	C1	1754	A
1	C1	1761	U
1	C1	1764	C
1	C1	1779	U
1	C1	1791	A
1	C1	1793	G
29	D1	14	U
29	D1	15	C

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Mol	Chain	Res	Type
29	D1	20	A
29	D1	42	C
29	D1	48	A
29	D1	65	A
29	D1	88	A
29	D1	92	G
29	D1	102	C
29	D1	120	G
29	D1	152	U
29	D1	154	U
29	D1	155	G
29	D1	156	G
29	D1	157	A
29	D1	191	U
29	D1	200	C
29	D1	210	U
29	D1	249	U
29	D1	251	G
29	D1	265	A
29	D1	282	G
29	D1	304	G
29	D1	326	U
29	D1	327	A
29	D1	332	C
29	D1	340	C
29	D1	369	A
29	D1	379	C
29	D1	396	A
29	D1	400	G
29	D1	422	A
29	D1	423	A
29	D1	424	G
29	D1	425	G
29	D1	431	U
29	D1	516	A
29	D1	520	U
29	D1	524	U
29	D1	536	U
29	D1	560	G
29	D1	561	C
29	D1	574	U
29	D1	575	G

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Mol	Chain	Res	Type
29	D1	576	C
29	D1	577	C
29	D1	590	G
29	D1	603	A
29	D1	604	G
29	D1	605	U
29	D1	609	G
29	D1	620	U
29	D1	625	G
29	D1	641	C
29	D1	647	A
29	D1	666	A
29	D1	674	G
29	D1	698	U
29	D1	705	A
29	D1	715	A
29	D1	718	G
29	D1	720	A
29	D1	746	A
29	D1	747	A
29	D1	758	C
29	D1	769	G
29	D1	806	A
29	D1	834	U
29	D1	845	G
29	D1	857	G
29	D1	858	A
29	D1	896	A
29	D1	943	U
29	D1	953	G
29	D1	975	C
29	D1	979	U
29	D1	1005	G
29	D1	1026	A
29	D1	1038	C
29	D1	1062	A
29	D1	1063	G
29	D1	1076	C
29	D1	1102	A
29	D1	1103	A
29	D1	1130	A
29	D1	1139	G

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Mol	Chain	Res	Type
29	D1	1143	A
29	D1	1144	U
29	D1	1152	G
29	D1	1154	A
29	D1	1157	G
29	D1	1159	A
29	D1	1167	U
29	D1	1197	A
29	D1	1207	G
29	D1	1213	G
29	D1	1221	A
29	D1	1225	A
29	D1	1226	G
29	D1	1235	U
29	D1	1264	G
29	D1	1272	C
29	D1	1286	A
29	D1	1288	U
29	D1	1289	G
29	D1	1291	A
29	D1	1294	A
29	D1	1296	C
29	D1	1306	G
29	D1	1307	G
29	D1	1317	A
29	D1	1329	U
29	D1	1331	U
29	D1	1367	G
29	D1	1389	G
29	D1	1398	U
29	D1	1428	A
29	D1	1442	U
29	D1	1454	A
29	D1	1468	A
29	D1	1469	C
29	D1	1478	C
29	D1	1482	A
29	D1	1483	G
29	D1	1484	U
29	D1	1503	A
29	D1	1504	A
29	D1	1505	C

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Mol	Chain	Res	Type
29	D1	1520	G
29	D1	1524	A
29	D1	1588	A
29	D1	1607	U
29	D1	1627	U
29	D1	1640	G
29	D1	1646	G
29	D1	1654	A
29	D1	1685	C
29	D1	1686	U
29	D1	1716	U
29	D1	1728	G
29	D1	1779	C
29	D1	1780	G
29	D1	1793	C
29	D1	1795	U
29	D1	1808	G
29	D1	1876	U
29	D1	1877	U
29	D1	1912	U
29	D1	2105	G
29	D1	2112	U
29	D1	2147	A
29	D1	2148	U
29	D1	2151	C
29	D1	2193	U
29	D1	2211	U
29	D1	2251	G
29	D1	2254	U
29	D1	2255	A
29	D1	2270	A
29	D1	2280	A
29	D1	2281	A
29	D1	2290	C
29	D1	2297	U
29	D1	2372	A
29	D1	2385	G
29	D1	2400	G
29	D1	2403	G
29	D1	2404	A
29	D1	2414	G
29	D1	2423	U

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Mol	Chain	Res	Type
29	D1	2487	U
29	D1	2501	U
29	D1	2513	U
29	D1	2516	U
29	D1	2522	G
29	D1	2523	A
29	D1	2549	G
29	D1	2555	G
29	D1	2580	A
29	D1	2593	A
29	D1	2618	G
29	D1	2652	U
29	D1	2684	C
29	D1	2699	G
29	D1	2707	C
29	D1	2717	U
29	D1	2727	A
29	D1	2728	G
29	D1	2779	A
29	D1	2799	A
29	D1	2804	A
29	D1	2805	G
29	D1	2817	A
29	D1	2834	G
29	D1	2850	G
29	D1	2851	A
29	D1	2859	U
29	D1	2872	A
29	D1	2896	A
29	D1	2898	G
29	D1	2900	A
29	D1	2917	G
29	D1	2948	C
29	D1	2987	A
29	D1	2996	U
29	D1	2997	G
29	D1	2998	U
29	D1	2999	U
29	D1	3002	C
29	D1	3013	U
29	D1	3023	U
29	D1	3024	A

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Mol	Chain	Res	Type
29	D1	3030	G
29	D1	3038	U
29	D1	3045	G
29	D1	3047	U
29	D1	3058	U
29	D1	3059	G
29	D1	3071	U
29	D1	3078	U
29	D1	3090	U
29	D1	3093	C
29	D1	3097	C
29	D1	3098	G
29	D1	3099	C
29	D1	3102	G
29	D1	3108	G
29	D1	3121	U
29	D1	3137	C
29	D1	3139	A
29	D1	3143	C
29	D1	3144	G
29	D1	3151	U
29	D1	3152	U
29	D1	3168	A
29	D1	3171	U
29	D1	3173	G
29	D1	3179	U
29	D1	3180	A
29	D1	3204	C
29	D1	3205	G
29	D1	3211	C
29	D1	3257	C
29	D1	3268	A
29	D1	3274	A
29	D1	3290	G
29	D1	3291	G
29	D1	3299	A
29	D1	3303	G
29	D1	3313	U
29	D1	3316	A
29	D1	3328	G
29	D1	3331	U
29	D1	3332	U

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Mol	Chain	Res	Type
29	D1	3351	U
29	D1	3356	G
29	D1	3377	G
30	D2	12	U
30	D2	13	A
30	D2	14	U
30	D2	26	C
30	D2	35	C
30	D2	38	U
30	D2	55	A
30	D2	62	U
30	D2	64	A
30	D2	77	G
30	D2	92	A
30	D2	109	G
31	D3	22	U
31	D3	40	A
31	D3	70	G
31	D3	71	A
31	D3	76	C
31	D3	94	C
31	D3	106	C
31	D3	111	A
31	D3	113	U

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

715 ligands 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	$\#\|Z\| > 2$
74	OHX	C1	1978	-	0,6,6	-	-	-		
74	OHX	B1	3561	-	0,6,6	-	-	-		
74	OHX	C1	1986	-	0,6,6	-	-	-		
74	OHX	A1	1953	-	0,6,6	-	-	-		
74	OHX	D1	3567	-	0,6,6	-	-	-		
74	OHX	D1	3484	-	0,6,6	-	-	-		
74	OHX	D1	3442	-	0,6,6	-	-	-		
74	OHX	B1	3569	-	0,6,6	-	-	-		
74	OHX	Bd	101	-	0,6,6	-	-	-		
74	OHX	B1	3590	-	0,6,6	-	-	-		
74	OHX	B2	203	-	0,6,6	-	-	-		
74	OHX	C1	1901	-	0,6,6	-	-	-		
74	OHX	C1	1938	-	0,6,6	-	-	-		
74	OHX	B1	3603	-	0,6,6	-	-	-		
74	OHX	C1	1925	-	0,6,6	-	-	-		
74	OHX	A1	1960	-	0,6,6	-	-	-		
74	OHX	C1	1949	-	0,6,6	-	-	-		
74	OHX	D1	3508	-	0,6,6	-	-	-		
74	OHX	D1	3514	-	0,6,6	-	-	-		
74	OHX	B1	3493	-	0,6,6	-	-	-		
74	OHX	D1	3515	-	0,6,6	-	-	-		
74	OHX	C1	1911	-	0,6,6	-	-	-		
74	OHX	C1	1952	-	0,6,6	-	-	-		
74	OHX	B3	202	-	0,6,6	-	-	-		
74	OHX	D1	3414	-	0,6,6	-	-	-		
74	OHX	B1	3565	-	0,6,6	-	-	-		
74	OHX	C1	2000	-	0,6,6	-	-	-		
74	OHX	D1	3558	-	0,6,6	-	-	-		
74	OHX	B1	3509	-	0,6,6	-	-	-		
74	OHX	A1	1986	-	0,6,6	-	-	-		
74	OHX	B1	3457	-	0,6,6	-	-	-		
74	OHX	B1	3417	-	0,6,6	-	-	-		
74	OHX	A1	1914	-	0,6,6	-	-	-		
74	OHX	B1	3431	-	0,6,6	-	-	-		
74	OHX	D1	3543	-	0,6,6	-	-	-		
74	OHX	D3	209	-	0,6,6	-	-	-		
74	OHX	B3	209	-	0,6,6	-	-	-		
74	OHX	D1	3546	-	0,6,6	-	-	-		
74	OHX	D1	3583	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	A1	1941	-	0,6,6	-	-	-		
74	OHX	B1	3408	-	0,6,6	-	-	-		
74	OHX	B1	3507	-	0,6,6	-	-	-		
74	OHX	A1	1911	-	0,6,6	-	-	-		
74	OHX	B1	3550	-	0,6,6	-	-	-		
74	OHX	C1	1921	-	0,6,6	-	-	-		
74	OHX	D1	3544	-	0,6,6	-	-	-		
74	OHX	B1	3560	-	0,6,6	-	-	-		
74	OHX	A1	1944	-	0,6,6	-	-	-		
74	OHX	Bg	101	-	0,6,6	-	-	-		
74	OHX	D1	3577	-	0,6,6	-	-	-		
74	OHX	A1	1955	-	0,6,6	-	-	-		
74	OHX	B1	3606	-	0,6,6	-	-	-		
74	OHX	A1	1957	-	0,6,6	-	-	-		
74	OHX	D1	3576	-	0,6,6	-	-	-		
74	OHX	B1	3519	-	0,6,6	-	-	-		
74	OHX	D1	3464	-	0,6,6	-	-	-		
74	OHX	A1	1982	-	0,6,6	-	-	-		
74	OHX	B1	3458	-	0,6,6	-	-	-		
74	OHX	B1	3528	-	0,6,6	-	-	-		
74	OHX	B3	207	-	0,6,6	-	-	-		
74	OHX	D1	3513	-	0,6,6	-	-	-		
74	OHX	A1	1907	-	0,6,6	-	-	-		
74	OHX	B1	3540	-	0,6,6	-	-	-		
74	OHX	D1	3415	-	0,6,6	-	-	-		
74	OHX	D1	3521	-	0,6,6	-	-	-		
74	OHX	D1	3465	-	0,6,6	-	-	-		
74	OHX	C1	1905	-	0,6,6	-	-	-		
74	OHX	D1	3571	-	0,6,6	-	-	-		
74	OHX	B1	3506	-	0,6,6	-	-	-		
74	OHX	A1	1997	-	0,6,6	-	-	-		
74	OHX	B3	206	-	0,6,6	-	-	-		
74	OHX	B1	3470	-	0,6,6	-	-	-		
74	OHX	D3	207	-	0,6,6	-	-	-		
74	OHX	D1	3453	-	0,6,6	-	-	-		
74	OHX	D1	3474	-	0,6,6	-	-	-		
74	OHX	D1	3561	-	0,6,6	-	-	-		
74	OHX	C1	1956	-	0,6,6	-	-	-		
74	OHX	B1	3535	-	0,6,6	-	-	-		
74	OHX	B2	205	-	0,6,6	-	-	-		
74	OHX	D1	3569	-	0,6,6	-	-	-		
74	OHX	D1	3606	-	0,6,6	-	-	-		
74	OHX	B1	3429	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
74	OHX	D1	3458	-	0,6,6	-	-	-		
74	OHX	D1	3528	-	0,6,6	-	-	-		
74	OHX	C1	1920	-	0,6,6	-	-	-		
74	OHX	C1	1918	-	0,6,6	-	-	-		
74	OHX	C1	1908	-	0,6,6	-	-	-		
74	OHX	A1	1951	-	0,6,6	-	-	-		
74	OHX	C1	1982	-	0,6,6	-	-	-		
74	OHX	B1	3486	-	0,6,6	-	-	-		
74	OHX	D1	3613	-	0,6,6	-	-	-		
74	OHX	C1	1953	-	0,6,6	-	-	-		
74	OHX	C1	1957	-	0,6,6	-	-	-		
74	OHX	B1	3491	-	0,6,6	-	-	-		
74	OHX	C1	1939	-	0,6,6	-	-	-		
74	OHX	D1	3585	-	0,6,6	-	-	-		
74	OHX	A1	1942	-	0,6,6	-	-	-		
74	OHX	C1	1932	-	0,6,6	-	-	-		
74	OHX	D1	3509	-	0,6,6	-	-	-		
74	OHX	BO	301	-	0,6,6	-	-	-		
74	OHX	C1	1972	-	0,6,6	-	-	-		
74	OHX	D1	3548	-	0,6,6	-	-	-		
74	OHX	B1	3502	-	0,6,6	-	-	-		
74	OHX	D1	3560	-	0,6,6	-	-	-		
74	OHX	D3	210	-	0,6,6	-	-	-		
74	OHX	B1	3451	-	0,6,6	-	-	-		
74	OHX	D1	3536	-	0,6,6	-	-	-		
74	OHX	C1	1903	-	0,6,6	-	-	-		
74	OHX	B1	3460	-	0,6,6	-	-	-		
74	OHX	AL	201	-	0,6,6	-	-	-		
74	OHX	D1	3432	-	0,6,6	-	-	-		
74	OHX	D1	3501	-	0,6,6	-	-	-		
74	OHX	D1	3594	-	0,6,6	-	-	-		
74	OHX	B1	3597	-	0,6,6	-	-	-		
74	OHX	A1	1948	-	0,6,6	-	-	-		
74	OHX	A1	1959	-	0,6,6	-	-	-		
74	OHX	D1	3614	-	0,6,6	-	-	-		
74	OHX	DO	302	-	0,6,6	-	-	-		
74	OHX	A1	1954	-	0,6,6	-	-	-		
74	OHX	D1	3550	-	0,6,6	-	-	-		
74	OHX	B1	3441	-	0,6,6	-	-	-		
74	OHX	C1	1943	-	0,6,6	-	-	-		
74	OHX	B1	3544	-	0,6,6	-	-	-		
74	OHX	A1	1912	-	0,6,6	-	-	-		
74	OHX	D1	3598	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D3	205	-	0,6,6	-	-	-		
74	OHX	B1	3424	-	0,6,6	-	-	-		
74	OHX	C1	1941	-	0,6,6	-	-	-		
74	OHX	C1	1948	-	0,6,6	-	-	-		
74	OHX	D1	3461	-	0,6,6	-	-	-		
74	OHX	D1	3519	-	0,6,6	-	-	-		
74	OHX	C1	1923	-	0,6,6	-	-	-		
74	OHX	A1	1945	-	0,6,6	-	-	-		
74	OHX	D1	3462	-	0,6,6	-	-	-		
74	OHX	Ac	100	-	0,6,6	-	-	-		
74	OHX	C1	1974	-	0,6,6	-	-	-		
74	OHX	D3	206	-	0,6,6	-	-	-		
74	OHX	B1	3445	-	0,6,6	-	-	-		
74	OHX	A1	1928	-	0,6,6	-	-	-		
74	OHX	D1	3468	-	0,6,6	-	-	-		
74	OHX	B1	3403	-	0,6,6	-	-	-		
74	OHX	C1	1910	-	0,6,6	-	-	-		
74	OHX	C1	1967	-	0,6,6	-	-	-		
74	OHX	A1	1905	-	0,6,6	-	-	-		
74	OHX	B1	3410	-	0,6,6	-	-	-		
74	OHX	B1	3435	-	0,6,6	-	-	-		
74	OHX	D1	3511	-	0,6,6	-	-	-		
74	OHX	D3	201	-	0,6,6	-	-	-		
74	OHX	B1	3554	-	0,6,6	-	-	-		
74	OHX	D1	3424	-	0,6,6	-	-	-		
74	OHX	D1	3436	-	0,6,6	-	-	-		
74	OHX	D1	3615	-	0,6,6	-	-	-		
74	OHX	C1	1933	-	0,6,6	-	-	-		
74	OHX	B1	3599	-	0,6,6	-	-	-		
74	OHX	A1	2000	-	0,6,6	-	-	-		
74	OHX	D1	3428	-	0,6,6	-	-	-		
74	OHX	A1	1978	-	0,6,6	-	-	-		
74	OHX	B1	3593	-	0,6,6	-	-	-		
74	OHX	B1	3612	-	0,6,6	-	-	-		
74	OHX	D1	3499	-	0,6,6	-	-	-		
74	OHX	A1	1927	-	0,6,6	-	-	-		
74	OHX	CS	102	-	0,6,6	-	-	-		
74	OHX	A1	1931	1	0,6,6	-	-	-		
74	OHX	C1	1934	-	0,6,6	-	-	-		
74	OHX	D1	3557	-	0,6,6	-	-	-		
74	OHX	B1	3453	-	0,6,6	-	-	-		
74	OHX	C1	1999	-	0,6,6	-	-	-		
74	OHX	B1	3433	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D1	3502	-	0,6,6	-	-	-		
74	OHX	A1	2001	-	0,6,6	-	-	-		
74	OHX	C1	1913	-	0,6,6	-	-	-		
74	OHX	A1	1989	-	0,6,6	-	-	-		
74	OHX	D1	3564	-	0,6,6	-	-	-		
74	OHX	B1	3418	-	0,6,6	-	-	-		
74	OHX	D1	3504	-	0,6,6	-	-	-		
74	OHX	D1	3410	-	0,6,6	-	-	-		
74	OHX	D1	3435	-	0,6,6	-	-	-		
74	OHX	C1	1909	-	0,6,6	-	-	-		
74	OHX	B1	3501	-	0,6,6	-	-	-		
74	OHX	C1	1990	-	0,6,6	-	-	-		
74	OHX	B1	3525	-	0,6,6	-	-	-		
74	OHX	CT	401	-	0,6,6	-	-	-		
74	OHX	D1	3517	-	0,6,6	-	-	-		
74	OHX	D1	3506	-	0,6,6	-	-	-		
74	OHX	B1	3568	-	0,6,6	-	-	-		
74	OHX	B1	3402	-	0,6,6	-	-	-		
74	OHX	C1	1997	-	0,6,6	-	-	-		
74	OHX	B1	3547	-	0,6,6	-	-	-		
74	OHX	D2	206	-	0,6,6	-	-	-		
74	OHX	D1	3587	-	0,6,6	-	-	-		
74	OHX	D1	3426	-	0,6,6	-	-	-		
74	OHX	C1	1987	-	0,6,6	-	-	-		
74	OHX	D1	3565	-	0,6,6	-	-	-		
74	OHX	B1	3530	-	0,6,6	-	-	-		
74	OHX	D1	3608	-	0,6,6	-	-	-		
74	OHX	D1	3510	-	0,6,6	-	-	-		
74	OHX	B1	3595	-	0,6,6	-	-	-		
74	OHX	A1	1939	-	0,6,6	-	-	-		
74	OHX	A1	1936	-	0,6,6	-	-	-		
74	OHX	A1	1975	-	0,6,6	-	-	-		
74	OHX	D1	3403	-	0,6,6	-	-	-		
74	OHX	A1	1940	-	0,6,6	-	-	-		
74	OHX	A1	1903	-	0,6,6	-	-	-		
74	OHX	B1	3542	-	0,6,6	-	-	-		
74	OHX	D1	3411	-	0,6,6	-	-	-		
74	OHX	B1	3589	-	0,6,6	-	-	-		
74	OHX	B3	205	-	0,6,6	-	-	-		
74	OHX	B1	3446	-	0,6,6	-	-	-		
74	OHX	DE	301	-	0,6,6	-	-	-		
74	OHX	B1	3437	-	0,6,6	-	-	-		
74	OHX	D1	3568	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	B1	3485	-	0,6,6	-	-	-		
74	OHX	C1	1924	-	0,6,6	-	-	-		
74	OHX	A1	1979	-	0,6,6	-	-	-		
74	OHX	B3	203	-	0,6,6	-	-	-		
74	OHX	D1	3450	-	0,6,6	-	-	-		
74	OHX	D3	211	-	0,6,6	-	-	-		
74	OHX	D2	208	-	0,6,6	-	-	-		
74	OHX	B1	3484	-	0,6,6	-	-	-		
74	OHX	D1	3526	-	0,6,6	-	-	-		
74	OHX	D1	3547	-	0,6,6	-	-	-		
74	OHX	B1	3492	-	0,6,6	-	-	-		
74	OHX	D1	3593	-	0,6,6	-	-	-		
74	OHX	B1	3564	-	0,6,6	-	-	-		
74	OHX	A1	1972	-	0,6,6	-	-	-		
74	OHX	B1	3483	-	0,6,6	-	-	-		
74	OHX	B1	3536	-	0,6,6	-	-	-		
74	OHX	B1	3462	-	0,6,6	-	-	-		
74	OHX	D1	3500	-	0,6,6	-	-	-		
74	OHX	D1	3572	-	0,6,6	-	-	-		
74	OHX	D1	3579	-	0,6,6	-	-	-		
74	OHX	C1	1959	-	0,6,6	-	-	-		
74	OHX	C1	1992	-	0,6,6	-	-	-		
74	OHX	D1	3595	-	0,6,6	-	-	-		
74	OHX	A1	1985	-	0,6,6	-	-	-		
74	OHX	B1	3552	-	0,6,6	-	-	-		
74	OHX	A1	1919	-	0,6,6	-	-	-		
74	OHX	B1	3577	-	0,6,6	-	-	-		
74	OHX	C1	1915	-	0,6,6	-	-	-		
74	OHX	B1	3548	-	0,6,6	-	-	-		
74	OHX	D1	3418	-	0,6,6	-	-	-		
74	OHX	D1	3545	-	0,6,6	-	-	-		
74	OHX	A1	1929	-	0,6,6	-	-	-		
74	OHX	C1	1984	-	0,6,6	-	-	-		
74	OHX	A1	1970	-	0,6,6	-	-	-		
74	OHX	C1	1935	-	0,6,6	-	-	-		
74	OHX	B1	3404	-	0,6,6	-	-	-		
74	OHX	B1	3533	-	0,6,6	-	-	-		
74	OHX	B1	3549	-	0,6,6	-	-	-		
74	OHX	D1	3446	-	0,6,6	-	-	-		
74	OHX	B1	3490	-	0,6,6	-	-	-		
74	OHX	B1	3521	-	0,6,6	-	-	-		
74	OHX	B1	3515	-	0,6,6	-	-	-		
74	OHX	A1	1974	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	C1	1993	-	0,6,6	-	-	-		
74	OHX	B1	3574	-	0,6,6	-	-	-		
74	OHX	B1	3498	-	0,6,6	-	-	-		
74	OHX	BC	401	-	0,6,6	-	-	-		
74	OHX	Dd	102	-	0,6,6	-	-	-		
74	OHX	C1	1966	-	0,6,6	-	-	-		
74	OHX	B1	3578	-	0,6,6	-	-	-		
74	OHX	C1	1996	-	0,6,6	-	-	-		
74	OHX	C1	1989	-	0,6,6	-	-	-		
74	OHX	D1	3492	-	0,6,6	-	-	-		
74	OHX	D1	3540	-	0,6,6	-	-	-		
74	OHX	B1	3467	-	0,6,6	-	-	-		
74	OHX	B1	3555	-	0,6,6	-	-	-		
74	OHX	B1	3472	-	0,6,6	-	-	-		
74	OHX	B1	3571	-	0,6,6	-	-	-		
74	OHX	DT	201	-	0,6,6	-	-	-		
74	OHX	D1	3402	-	0,6,6	-	-	-		
74	OHX	D1	3467	-	0,6,6	-	-	-		
74	OHX	D1	3552	-	0,6,6	-	-	-		
74	OHX	B1	3601	-	0,6,6	-	-	-		
74	OHX	C1	1965	-	0,6,6	-	-	-		
74	OHX	C1	1931	-	0,6,6	-	-	-		
74	OHX	C1	1930	1	0,6,6	-	-	-		
74	OHX	B1	3422	-	0,6,6	-	-	-		
74	OHX	B1	3452	-	0,6,6	-	-	-		
74	OHX	B1	3432	-	0,6,6	-	-	-		
74	OHX	A1	1935	-	0,6,6	-	-	-		
74	OHX	D1	3401	-	0,6,6	-	-	-		
74	OHX	D1	3440	-	0,6,6	-	-	-		
74	OHX	A1	1917	-	0,6,6	-	-	-		
74	OHX	A1	1910	-	0,6,6	-	-	-		
74	OHX	B1	3523	-	0,6,6	-	-	-		
74	OHX	D1	3429	-	0,6,6	-	-	-		
74	OHX	D2	205	-	0,6,6	-	-	-		
74	OHX	D1	3404	-	0,6,6	-	-	-		
74	OHX	D1	3448	-	0,6,6	-	-	-		
74	OHX	B1	3488	-	0,6,6	-	-	-		
74	OHX	B1	3510	-	0,6,6	-	-	-		
74	OHX	A1	1926	-	0,6,6	-	-	-		
74	OHX	A1	1964	-	0,6,6	-	-	-		
74	OHX	D1	3603	-	0,6,6	-	-	-		
74	OHX	A1	1913	-	0,6,6	-	-	-		
74	OHX	D1	3460	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D1	3578	-	0,6,6	-	-	-		
74	OHX	B1	3497	-	0,6,6	-	-	-		
74	OHX	B1	3465	-	0,6,6	-	-	-		
74	OHX	B1	3576	-	0,6,6	-	-	-		
74	OHX	B1	3434	-	0,6,6	-	-	-		
74	OHX	D1	3589	-	0,6,6	-	-	-		
74	OHX	D1	3472	-	0,6,6	-	-	-		
74	OHX	D1	3437	-	0,6,6	-	-	-		
74	OHX	D1	3438	-	0,6,6	-	-	-		
74	OHX	B1	3430	-	0,6,6	-	-	-		
74	OHX	D1	3476	-	0,6,6	-	-	-		
74	OHX	D1	3601	-	0,6,6	-	-	-		
74	OHX	B1	3588	-	0,6,6	-	-	-		
74	OHX	B1	3620	-	0,6,6	-	-	-		
74	OHX	B3	210	-	0,6,6	-	-	-		
74	OHX	D1	3422	-	0,6,6	-	-	-		
74	OHX	B3	212	-	0,6,6	-	-	-		
74	OHX	B1	3585	-	0,6,6	-	-	-		
74	OHX	A1	1950	-	0,6,6	-	-	-		
74	OHX	D1	3523	-	0,6,6	-	-	-		
74	OHX	B1	3487	-	0,6,6	-	-	-		
74	OHX	D1	3604	-	0,6,6	-	-	-		
74	OHX	B1	3455	-	0,6,6	-	-	-		
74	OHX	B1	3600	-	0,6,6	-	-	-		
74	OHX	C1	1927	-	0,6,6	-	-	-		
74	OHX	B1	3570	-	0,6,6	-	-	-		
74	OHX	A1	1966	-	0,6,6	-	-	-		
74	OHX	B1	3618	-	0,6,6	-	-	-		
74	OHX	D1	3427	-	0,6,6	-	-	-		
74	OHX	D1	3434	-	0,6,6	-	-	-		
74	OHX	D1	3533	-	0,6,6	-	-	-		
74	OHX	D2	204	-	0,6,6	-	-	-		
74	OHX	A1	1969	-	0,6,6	-	-	-		
74	OHX	A1	1973	-	0,6,6	-	-	-		
74	OHX	D3	202	-	0,6,6	-	-	-		
74	OHX	C1	1919	-	0,6,6	-	-	-		
74	OHX	B1	3413	-	0,6,6	-	-	-		
74	OHX	D1	3496	-	0,6,6	-	-	-		
74	OHX	A1	1938	-	0,6,6	-	-	-		
74	OHX	B1	3405	-	0,6,6	-	-	-		
74	OHX	D1	3620	-	0,6,6	-	-	-		
74	OHX	D1	3495	-	0,6,6	-	-	-		
74	OHX	B1	3406	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	B1	3401	-	0,6,6	-	-	-		
74	OHX	D2	202	-	0,6,6	-	-	-		
74	OHX	B2	202	-	0,6,6	-	-	-		
74	OHX	B1	3466	-	0,6,6	-	-	-		
74	OHX	B1	3582	-	0,6,6	-	-	-		
74	OHX	C1	1945	-	0,6,6	-	-	-		
74	OHX	C1	1983	1	0,6,6	-	-	-		
74	OHX	B1	3594	-	0,6,6	-	-	-		
74	OHX	C1	1975	-	0,6,6	-	-	-		
74	OHX	D1	3452	-	0,6,6	-	-	-		
74	OHX	D1	3473	-	0,6,6	-	-	-		
74	OHX	A1	1962	-	0,6,6	-	-	-		
74	OHX	C1	1994	-	0,6,6	-	-	-		
74	OHX	D1	3485	-	0,6,6	-	-	-		
74	OHX	D1	3405	-	0,6,6	-	-	-		
74	OHX	A1	1992	-	0,6,6	-	-	-		
74	OHX	B2	209	-	0,6,6	-	-	-		
74	OHX	D1	3591	-	0,6,6	-	-	-		
74	OHX	B1	3423	-	0,6,6	-	-	-		
74	OHX	B1	3421	-	0,6,6	-	-	-		
74	OHX	B1	3443	-	0,6,6	-	-	-		
74	OHX	C1	1980	-	0,6,6	-	-	-		
74	OHX	D1	3494	-	0,6,6	-	-	-		
74	OHX	B1	3478	-	0,6,6	-	-	-		
74	OHX	A1	1993	-	0,6,6	-	-	-		
74	OHX	D1	3597	-	0,6,6	-	-	-		
74	OHX	D1	3477	-	0,6,6	-	-	-		
74	OHX	D1	3622	-	0,6,6	-	-	-		
74	OHX	DJ	301	-	0,6,6	-	-	-		
74	OHX	D1	3549	-	0,6,6	-	-	-		
74	OHX	C1	2001	-	0,6,6	-	-	-		
74	OHX	B1	3409	-	0,6,6	-	-	-		
74	OHX	B1	3615	-	0,6,6	-	-	-		
74	OHX	B1	3520	-	0,6,6	-	-	-		
74	OHX	B1	3580	-	0,6,6	-	-	-		
74	OHX	C1	1902	-	0,6,6	-	-	-		
74	OHX	A1	1901	-	0,6,6	-	-	-		
74	OHX	D1	3455	-	0,6,6	-	-	-		
74	OHX	D1	3441	-	0,6,6	-	-	-		
74	OHX	C1	1904	-	0,6,6	-	-	-		
74	OHX	B1	3412	-	0,6,6	-	-	-		
74	OHX	D1	3554	-	0,6,6	-	-	-		
74	OHX	A1	1952	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	B1	3420	-	0,6,6	-	-	-		
74	OHX	B1	3436	-	0,6,6	-	-	-		
74	OHX	D1	3443	-	0,6,6	-	-	-		
74	OHX	A1	1980	-	0,6,6	-	-	-		
74	OHX	B1	3534	-	0,6,6	-	-	-		
74	OHX	D1	3408	-	0,6,6	-	-	-		
74	OHX	D1	3625	-	0,6,6	-	-	-		
74	OHX	B1	3482	-	0,6,6	-	-	-		
74	OHX	A1	1965	-	0,6,6	-	-	-		
74	OHX	D1	3520	-	0,6,6	-	-	-		
74	OHX	DO	301	-	0,6,6	-	-	-		
74	OHX	C1	1916	-	0,6,6	-	-	-		
74	OHX	D1	3406	-	0,6,6	-	-	-		
74	OHX	D1	3566	-	0,6,6	-	-	-		
74	OHX	A1	1984	-	0,6,6	-	-	-		
74	OHX	B1	3495	-	0,6,6	-	-	-		
74	OHX	B1	3454	-	0,6,6	-	-	-		
74	OHX	D1	3431	-	0,6,6	-	-	-		
74	OHX	D1	3471	-	0,6,6	-	-	-		
74	OHX	D2	209	-	0,6,6	-	-	-		
74	OHX	A1	1906	-	0,6,6	-	-	-		
74	OHX	B1	3447	-	0,6,6	-	-	-		
74	OHX	B1	3449	-	0,6,6	-	-	-		
74	OHX	D1	3582	-	0,6,6	-	-	-		
74	OHX	D3	208	-	0,6,6	-	-	-		
74	OHX	D1	3580	-	0,6,6	-	-	-		
74	OHX	A1	1958	-	0,6,6	-	-	-		
74	OHX	D1	3534	-	0,6,6	-	-	-		
74	OHX	B1	3553	-	0,6,6	-	-	-		
74	OHX	B1	3610	-	0,6,6	-	-	-		
74	OHX	B1	3619	-	0,6,6	-	-	-		
74	OHX	D1	3524	-	0,6,6	-	-	-		
74	OHX	B1	3527	-	0,6,6	-	-	-		
74	OHX	B1	3481	-	0,6,6	-	-	-		
74	OHX	D1	3420	-	0,6,6	-	-	-		
74	OHX	D1	3623	-	0,6,6	-	-	-		
74	OHX	B2	201	-	0,6,6	-	-	-		
74	OHX	C1	1917	-	0,6,6	-	-	-		
74	OHX	D1	3423	-	0,6,6	-	-	-		
74	OHX	D1	3507	-	0,6,6	-	-	-		
74	OHX	A1	1930	-	0,6,6	-	-	-		
74	OHX	D1	3512	-	0,6,6	-	-	-		
74	OHX	C1	1937	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	B1	3489	-	0,6,6	-	-	-		
74	OHX	B2	210	-	0,6,6	-	-	-		
74	OHX	C1	1964	-	0,6,6	-	-	-		
74	OHX	C1	1922	-	0,6,6	-	-	-		
74	OHX	D1	3609	-	0,6,6	-	-	-		
74	OHX	D1	3454	-	0,6,6	-	-	-		
74	OHX	AT	401	-	0,6,6	-	-	-		
74	OHX	A1	1963	-	0,6,6	-	-	-		
74	OHX	B1	3503	-	0,6,6	-	-	-		
74	OHX	B1	3609	-	0,6,6	-	-	-		
74	OHX	B1	3584	-	0,6,6	-	-	-		
74	OHX	D1	3553	-	0,6,6	-	-	-		
74	OHX	B1	3579	-	0,6,6	-	-	-		
74	OHX	B1	3531	-	0,6,6	-	-	-		
74	OHX	B1	3598	-	0,6,6	-	-	-		
74	OHX	B1	3496	-	0,6,6	-	-	-		
74	OHX	D1	3527	-	0,6,6	-	-	-		
74	OHX	B1	3537	-	0,6,6	-	-	-		
74	OHX	C1	1942	-	0,6,6	-	-	-		
74	OHX	D1	3481	-	0,6,6	-	-	-		
74	OHX	D1	3532	-	0,6,6	-	-	-		
74	OHX	B1	3463	-	0,6,6	-	-	-		
74	OHX	B1	3551	-	0,6,6	-	-	-		
74	OHX	D1	3586	-	0,6,6	-	-	-		
74	OHX	A1	1998	-	0,6,6	-	-	-		
74	OHX	B1	3469	-	0,6,6	-	-	-		
74	OHX	D1	3621	-	0,6,6	-	-	-		
74	OHX	B1	3411	-	0,6,6	-	-	-		
74	OHX	B1	3513	-	0,6,6	-	-	-		
74	OHX	B2	206	-	0,6,6	-	-	-		
74	OHX	B1	3596	-	0,6,6	-	-	-		
74	OHX	D1	3538	-	0,6,6	-	-	-		
74	OHX	BT	201	-	0,6,6	-	-	-		
74	OHX	A1	1934	-	0,6,6	-	-	-		
74	OHX	B1	3475	-	0,6,6	-	-	-		
74	OHX	A1	1920	-	0,6,6	-	-	-		
74	OHX	D1	3417	-	0,6,6	-	-	-		
74	OHX	D1	3489	-	0,6,6	-	-	-		
74	OHX	Dg	101	-	0,6,6	-	-	-		
74	OHX	B3	211	-	0,6,6	-	-	-		
74	OHX	B1	3617	-	0,6,6	-	-	-		
74	OHX	A1	1994	-	0,6,6	-	-	-		
74	OHX	A1	1904	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	B1	3444	-	0,6,6	-	-	-		
74	OHX	D1	3482	-	0,6,6	-	-	-		
74	OHX	B1	3559	-	0,6,6	-	-	-		
74	OHX	C1	1969	-	0,6,6	-	-	-		
74	OHX	D3	204	-	0,6,6	-	-	-		
74	OHX	B1	3563	-	0,6,6	-	-	-		
74	OHX	D1	3537	-	0,6,6	-	-	-		
74	OHX	Bd	102	-	0,6,6	-	-	-		
74	OHX	D1	3491	-	0,6,6	-	-	-		
74	OHX	B1	3546	-	0,6,6	-	-	-		
74	OHX	D1	3449	-	0,6,6	-	-	-		
74	OHX	D1	3529	-	0,6,6	-	-	-		
74	OHX	B1	3428	-	0,6,6	-	-	-		
74	OHX	D1	3605	-	0,6,6	-	-	-		
74	OHX	B1	3545	-	0,6,6	-	-	-		
74	OHX	A1	1987	-	0,6,6	-	-	-		
74	OHX	A1	1946	-	0,6,6	-	-	-		
74	OHX	D1	3596	-	0,6,6	-	-	-		
74	OHX	D1	3619	-	0,6,6	-	-	-		
74	OHX	A1	2002	-	0,6,6	-	-	-		
74	OHX	B1	3557	-	0,6,6	-	-	-		
74	OHX	B1	3476	-	0,6,6	-	-	-		
74	OHX	B1	3566	-	0,6,6	-	-	-		
74	OHX	C1	1906	-	0,6,6	-	-	-		
74	OHX	B3	201	-	0,6,6	-	-	-		
74	OHX	C1	1962	-	0,6,6	-	-	-		
74	OHX	C1	1940	-	0,6,6	-	-	-		
74	OHX	B1	3607	-	0,6,6	-	-	-		
74	OHX	B1	3567	-	0,6,6	-	-	-		
74	OHX	D1	3409	-	0,6,6	-	-	-		
74	OHX	C1	1954	-	0,6,6	-	-	-		
74	OHX	B1	3587	-	0,6,6	-	-	-		
74	OHX	D1	3530	-	0,6,6	-	-	-		
74	OHX	C1	1979	-	0,6,6	-	-	-		
74	OHX	D1	3456	-	0,6,6	-	-	-		
74	OHX	D1	3503	-	0,6,6	-	-	-		
74	OHX	D1	3584	-	0,6,6	-	-	-		
74	OHX	C1	1977	-	0,6,6	-	-	-		
74	OHX	C1	1981	-	0,6,6	-	-	-		
74	OHX	B1	3504	-	0,6,6	-	-	-		
74	OHX	B1	3505	-	0,6,6	-	-	-		
74	OHX	A1	1916	-	0,6,6	-	-	-		
74	OHX	C1	1926	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D2	203	-	0,6,6	-	-	-		
74	OHX	D1	3480	-	0,6,6	-	-	-		
74	OHX	D1	3551	-	0,6,6	-	-	-		
74	OHX	D1	3413	-	0,6,6	-	-	-		
74	OHX	A1	1968	-	0,6,6	-	-	-		
74	OHX	B1	3471	-	0,6,6	-	-	-		
74	OHX	C1	1929	-	0,6,6	-	-	-		
74	OHX	A1	1933	-	0,6,6	-	-	-		
74	OHX	B1	3583	-	0,6,6	-	-	-		
74	OHX	D1	3430	-	0,6,6	-	-	-		
74	OHX	B2	208	-	0,6,6	-	-	-		
74	OHX	B1	3573	-	0,6,6	-	-	-		
74	OHX	A1	1995	-	0,6,6	-	-	-		
74	OHX	A1	1947	-	0,6,6	-	-	-		
74	OHX	D1	3516	-	0,6,6	-	-	-		
74	OHX	A1	1981	-	0,6,6	-	-	-		
74	OHX	A1	1999	-	0,6,6	-	-	-		
74	OHX	D1	3444	-	0,6,6	-	-	-		
74	OHX	D2	207	-	0,6,6	-	-	-		
74	OHX	B1	3604	-	0,6,6	-	-	-		
74	OHX	C1	1928	-	0,6,6	-	-	-		
74	OHX	D1	3563	-	0,6,6	-	-	-		
74	OHX	A1	1922	-	0,6,6	-	-	-		
74	OHX	D1	3497	-	0,6,6	-	-	-		
74	OHX	B1	3581	-	0,6,6	-	-	-		
74	OHX	B1	3468	-	0,6,6	-	-	-		
74	OHX	C1	1958	-	0,6,6	-	-	-		
74	OHX	B1	3526	-	0,6,6	-	-	-		
74	OHX	B1	3477	-	0,6,6	-	-	-		
74	OHX	AS	101	-	0,6,6	-	-	-		
74	OHX	A1	1923	-	0,6,6	-	-	-		
74	OHX	C1	1971	-	0,6,6	-	-	-		
74	OHX	D3	212	-	0,6,6	-	-	-		
74	OHX	A1	1937	-	0,6,6	-	-	-		
74	OHX	B1	3494	-	0,6,6	-	-	-		
74	OHX	B3	204	-	0,6,6	-	-	-		
74	OHX	A1	1915	-	0,6,6	-	-	-		
74	OHX	B2	204	-	0,6,6	-	-	-		
74	OHX	D1	3457	-	0,6,6	-	-	-		
74	OHX	C1	1968	-	0,6,6	-	-	-		
74	OHX	D1	3451	-	0,6,6	-	-	-		
74	OHX	A1	1902	-	0,6,6	-	-	-		
74	OHX	B1	3518	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	B1	3592	-	0,6,6	-	-	-		
74	OHX	D1	3607	-	0,6,6	-	-	-		
74	OHX	D1	3493	-	0,6,6	-	-	-		
74	OHX	D1	3574	-	0,6,6	-	-	-		
74	OHX	B1	3556	-	0,6,6	-	-	-		
74	OHX	A1	1949	-	0,6,6	-	-	-		
74	OHX	D1	3466	-	0,6,6	-	-	-		
74	OHX	D1	3518	-	0,6,6	-	-	-		
74	OHX	B1	3440	-	0,6,6	-	-	-		
74	OHX	B1	3621	-	0,6,6	-	-	-		
74	OHX	B1	3524	-	0,6,6	-	-	-		
74	OHX	A1	1971	-	0,6,6	-	-	-		
74	OHX	D1	3412	-	0,6,6	-	-	-		
74	OHX	B1	3439	-	0,6,6	-	-	-		
74	OHX	D1	3505	-	0,6,6	-	-	-		
74	OHX	B1	3611	-	0,6,6	-	-	-		
74	OHX	D1	3570	-	0,6,6	-	-	-		
74	OHX	C1	1963	-	0,6,6	-	-	-		
74	OHX	D1	3483	-	0,6,6	-	-	-		
74	OHX	B1	3591	-	0,6,6	-	-	-		
74	OHX	A1	1925	-	0,6,6	-	-	-		
74	OHX	B1	3613	-	0,6,6	-	-	-		
74	OHX	CI	201	-	0,6,6	-	-	-		
74	OHX	A1	1924	-	0,6,6	-	-	-		
74	OHX	C1	1988	-	0,6,6	-	-	-		
74	OHX	D1	3624	-	0,6,6	-	-	-		
74	OHX	C1	1973	-	0,6,6	-	-	-		
74	OHX	B1	3614	-	0,6,6	-	-	-		
74	OHX	C1	1936	-	0,6,6	-	-	-		
74	OHX	D1	3535	-	0,6,6	-	-	-		
74	OHX	D1	3618	-	0,6,6	-	-	-		
74	OHX	D1	3498	-	0,6,6	-	-	-		
74	OHX	Dd	101	-	0,6,6	-	-	-		
74	OHX	B1	3416	-	0,6,6	-	-	-		
74	OHX	B1	3459	-	0,6,6	-	-	-		
74	OHX	C1	1976	-	0,6,6	-	-	-		
74	OHX	B1	3419	-	0,6,6	-	-	-		
74	OHX	B1	3414	-	0,6,6	-	-	-		
74	OHX	B1	3438	-	0,6,6	-	-	-		
74	OHX	D1	3470	-	0,6,6	-	-	-		
74	OHX	D1	3486	-	0,6,6	-	-	-		
74	OHX	B1	3407	-	0,6,6	-	-	-		
74	OHX	A1	1932	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D1	3581	-	0,6,6	-	-	-		
74	OHX	C1	1947	-	0,6,6	-	-	-		
74	OHX	B1	3538	-	0,6,6	-	-	-		
74	OHX	D1	3447	-	0,6,6	-	-	-		
74	OHX	D1	3590	-	0,6,6	-	-	-		
74	OHX	C1	1985	-	0,6,6	-	-	-		
74	OHX	B1	3461	-	0,6,6	-	-	-		
74	OHX	D1	3425	-	0,6,6	-	-	-		
74	OHX	C1	1946	-	0,6,6	-	-	-		
74	OHX	D1	3592	-	0,6,6	-	-	-		
74	OHX	D1	3478	-	0,6,6	-	-	-		
74	OHX	B1	3562	-	0,6,6	-	-	-		
74	OHX	C1	1970	-	0,6,6	-	-	-		
74	OHX	D1	3556	-	0,6,6	-	-	-		
74	OHX	B2	207	-	0,6,6	-	-	-		
74	OHX	B1	3511	-	0,6,6	-	-	-		
74	OHX	B1	3474	-	0,6,6	-	-	-		
74	OHX	B1	3500	-	0,6,6	-	-	-		
74	OHX	D1	3419	-	0,6,6	-	-	-		
74	OHX	D3	203	-	0,6,6	-	-	-		
74	OHX	D1	3463	-	0,6,6	-	-	-		
74	OHX	A1	1918	-	0,6,6	-	-	-		
74	OHX	CS	101	-	0,6,6	-	-	-		
74	OHX	B1	3514	-	0,6,6	-	-	-		
74	OHX	D1	3407	-	0,6,6	-	-	-		
74	OHX	B1	3448	-	0,6,6	-	-	-		
74	OHX	B1	3522	-	0,6,6	-	-	-		
74	OHX	D1	3611	-	0,6,6	-	-	-		
74	OHX	B1	3541	-	0,6,6	-	-	-		
74	OHX	A1	1983	-	0,6,6	-	-	-		
74	OHX	B1	3517	-	0,6,6	-	-	-		
74	OHX	B1	3575	-	0,6,6	-	-	-		
74	OHX	B1	3558	-	0,6,6	-	-	-		
74	OHX	D1	3575	-	0,6,6	-	-	-		
74	OHX	A1	1977	-	0,6,6	-	-	-		
74	OHX	A1	1996	-	0,6,6	-	-	-		
74	OHX	C1	1991	-	0,6,6	-	-	-		
74	OHX	B1	3539	-	0,6,6	-	-	-		
74	OHX	D1	3421	-	0,6,6	-	-	-		
74	OHX	B1	3450	-	0,6,6	-	-	-		
74	OHX	B1	3516	-	0,6,6	-	-	-		
74	OHX	D1	3439	-	0,6,6	-	-	-		
74	OHX	B1	3616	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D1	3490	-	0,6,6	-	-	-		
74	OHX	D1	3416	-	0,6,6	-	-	-		
74	OHX	C1	1944	-	0,6,6	-	-	-		
74	OHX	C1	1914	-	0,6,6	-	-	-		
74	OHX	D1	3610	-	0,6,6	-	-	-		
74	OHX	D1	3612	-	0,6,6	-	-	-		
74	OHX	C1	1995	-	0,6,6	-	-	-		
74	OHX	D1	3599	-	0,6,6	-	-	-		
74	OHX	D1	3469	-	0,6,6	-	-	-		
74	OHX	D1	3555	-	0,6,6	-	-	-		
74	OHX	D1	3588	-	0,6,6	-	-	-		
74	OHX	A1	1956	-	0,6,6	-	-	-		
74	OHX	B1	3586	-	0,6,6	-	-	-		
74	OHX	B1	3427	-	0,6,6	-	-	-		
74	OHX	D1	3445	-	0,6,6	-	-	-		
74	OHX	B1	3532	-	0,6,6	-	-	-		
74	OHX	A1	1921	-	0,6,6	-	-	-		
74	OHX	A1	1991	-	0,6,6	-	-	-		
74	OHX	C1	1907	-	0,6,6	-	-	-		
74	OHX	B1	3608	-	0,6,6	-	-	-		
74	OHX	C1	1955	-	0,6,6	-	-	-		
74	OHX	D1	3433	-	0,6,6	-	-	-		
74	OHX	D1	3600	-	0,6,6	-	-	-		
74	OHX	D1	3475	-	0,6,6	-	-	-		
74	OHX	D1	3539	-	0,6,6	-	-	-		
74	OHX	DC	401	-	0,6,6	-	-	-		
74	OHX	B1	3425	-	0,6,6	-	-	-		
74	OHX	D1	3488	-	0,6,6	-	-	-		
74	OHX	A1	1990	-	0,6,6	-	-	-		
74	OHX	D1	3616	-	0,6,6	-	-	-		
74	OHX	D1	3525	-	0,6,6	-	-	-		
74	OHX	D1	3522	-	0,6,6	-	-	-		
74	OHX	C1	1950	-	0,6,6	-	-	-		
74	OHX	A1	1988	-	0,6,6	-	-	-		
74	OHX	B1	3480	-	0,6,6	-	-	-		
74	OHX	B1	3529	-	0,6,6	-	-	-		
74	OHX	B1	3605	-	0,6,6	-	-	-		
74	OHX	B1	3602	-	0,6,6	-	-	-		
74	OHX	B1	3479	-	0,6,6	-	-	-		
74	OHX	C1	1961	-	0,6,6	-	-	-		
74	OHX	B1	3473	-	0,6,6	-	-	-		
74	OHX	C1	1951	-	0,6,6	-	-	-		
74	OHX	A1	1908	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
74	OHX	D1	3541	-	0,6,6	-	-	-		
74	OHX	A1	1976	-	0,6,6	-	-	-		
74	OHX	B1	3543	-	0,6,6	-	-	-		
74	OHX	A1	1943	-	0,6,6	-	-	-		
74	OHX	B1	3572	-	0,6,6	-	-	-		
74	OHX	C1	1912	-	0,6,6	-	-	-		
74	OHX	A1	1967	-	0,6,6	-	-	-		
74	OHX	C1	1998	-	0,6,6	-	-	-		
74	OHX	B1	3512	-	0,6,6	-	-	-		
74	OHX	D1	3617	-	0,6,6	-	-	-		
74	OHX	D1	3487	-	0,6,6	-	-	-		
74	OHX	D2	201	-	0,6,6	-	-	-		
74	OHX	D1	3459	-	0,6,6	-	-	-		
74	OHX	A1	1909	-	0,6,6	-	-	-		
74	OHX	B1	3456	-	0,6,6	-	-	-		
74	OHX	B1	3442	-	0,6,6	-	-	-		
74	OHX	B1	3499	-	0,6,6	-	-	-		
74	OHX	B1	3508	-	0,6,6	-	-	-		
74	OHX	B1	3426	-	0,6,6	-	-	-		
74	OHX	D1	3542	-	0,6,6	-	-	-		
74	OHX	D1	3602	-	0,6,6	-	-	-		
74	OHX	A1	1961	-	0,6,6	-	-	-		
74	OHX	D1	3479	-	0,6,6	-	-	-		
74	OHX	B1	3464	-	0,6,6	-	-	-		
74	OHX	C1	1960	-	0,6,6	-	-	-		
74	OHX	B3	208	-	0,6,6	-	-	-		
74	OHX	D1	3573	-	0,6,6	-	-	-		
74	OHX	D1	3559	-	0,6,6	-	-	-		
74	OHX	B1	3415	-	0,6,6	-	-	-		
74	OHX	D1	3531	-	0,6,6	-	-	-		
74	OHX	D1	3562	-	0,6,6	-	-	-		

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.

220 monomers are involved in 719 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	B1	3561	OHX	1	0
74	D1	3567	OHX	5	0
74	Bd	101	OHX	10	0
74	C1	1901	OHX	3	0
74	D1	3514	OHX	3	0
74	C1	1952	OHX	1	0
74	B3	202	OHX	1	0
74	A1	1986	OHX	6	0
74	B1	3417	OHX	3	0
74	D1	3543	OHX	7	0
74	D3	209	OHX	1	0
74	D1	3583	OHX	6	0
74	A1	1941	OHX	1	0
74	Bg	101	OHX	10	0
74	D1	3577	OHX	1	0
74	D1	3576	OHX	2	0
74	D1	3464	OHX	2	0
74	B1	3540	OHX	1	0
74	D1	3415	OHX	13	0
74	D1	3465	OHX	1	0
74	C1	1905	OHX	1	0
74	B1	3506	OHX	1	0
74	B3	206	OHX	8	0
74	B1	3429	OHX	2	0
74	C1	1918	OHX	2	0
74	C1	1908	OHX	2	0
74	C1	1953	OHX	3	0
74	C1	1939	OHX	1	0
74	D1	3585	OHX	2	0
74	C1	1903	OHX	2	0
74	B1	3460	OHX	1	0
74	A1	1959	OHX	3	0
74	B1	3544	OHX	1	0
74	D1	3598	OHX	1	0
74	D3	205	OHX	4	0
74	D1	3462	OHX	1	0
74	C1	1910	OHX	1	0
74	A1	1905	OHX	1	0
74	D3	201	OHX	3	0
74	C1	1933	OHX	7	0
74	B1	3599	OHX	4	0
74	D1	3428	OHX	2	0
74	A1	1978	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	B1	3593	OHX	1	0
74	A1	1931	OHX	7	0
74	D1	3557	OHX	3	0
74	C1	1999	OHX	3	0
74	B1	3433	OHX	1	0
74	D1	3502	OHX	5	0
74	A1	1989	OHX	2	0
74	B1	3568	OHX	2	0
74	C1	1997	OHX	1	0
74	D1	3608	OHX	1	0
74	B1	3595	OHX	1	0
74	A1	1939	OHX	1	0
74	A1	1936	OHX	3	0
74	A1	1975	OHX	4	0
74	A1	1903	OHX	1	0
74	B3	205	OHX	2	0
74	D1	3568	OHX	4	0
74	B1	3485	OHX	1	0
74	C1	1924	OHX	8	0
74	D1	3526	OHX	1	0
74	D1	3547	OHX	1	0
74	B1	3492	OHX	10	0
74	A1	1972	OHX	1	0
74	B1	3483	OHX	3	0
74	B1	3536	OHX	9	0
74	C1	1915	OHX	1	0
74	A1	1929	OHX	1	0
74	A1	1970	OHX	1	0
74	B1	3404	OHX	2	0
74	D1	3446	OHX	1	0
74	B1	3490	OHX	1	0
74	C1	1993	OHX	3	0
74	B1	3574	OHX	1	0
74	BC	401	OHX	1	0
74	D1	3492	OHX	3	0
74	D1	3402	OHX	3	0
74	C1	1930	OHX	10	0
74	A1	1935	OHX	2	0
74	A1	1917	OHX	4	0
74	A1	1910	OHX	5	0
74	B1	3523	OHX	1	0
74	D2	205	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	D1	3448	OHX	2	0
74	A1	1913	OHX	6	0
74	D1	3578	OHX	1	0
74	B1	3434	OHX	2	0
74	D1	3589	OHX	1	0
74	B1	3620	OHX	4	0
74	B3	212	OHX	2	0
74	A1	1950	OHX	2	0
74	D1	3523	OHX	3	0
74	C1	1927	OHX	3	0
74	D1	3434	OHX	1	0
74	D2	204	OHX	1	0
74	A1	1969	OHX	2	0
74	D3	202	OHX	7	0
74	B1	3413	OHX	1	0
74	B1	3405	OHX	2	0
74	D1	3495	OHX	2	0
74	B1	3406	OHX	2	0
74	C1	1983	OHX	4	0
74	D1	3452	OHX	12	0
74	D1	3473	OHX	5	0
74	C1	1994	OHX	1	0
74	B2	209	OHX	3	0
74	D1	3591	OHX	3	0
74	B1	3478	OHX	1	0
74	D1	3597	OHX	3	0
74	C1	2001	OHX	2	0
74	C1	1902	OHX	1	0
74	A1	1901	OHX	6	0
74	D1	3455	OHX	1	0
74	A1	1952	OHX	2	0
74	B1	3420	OHX	2	0
74	D1	3408	OHX	8	0
74	D1	3625	OHX	3	0
74	DO	301	OHX	6	0
74	C1	1916	OHX	4	0
74	D1	3406	OHX	1	0
74	D1	3431	OHX	7	0
74	B1	3447	OHX	1	0
74	B1	3449	OHX	7	0
74	D1	3582	OHX	10	0
74	A1	1958	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	B1	3553	OHX	1	0
74	D1	3524	OHX	2	0
74	B1	3527	OHX	1	0
74	B1	3481	OHX	1	0
74	B2	201	OHX	7	0
74	C1	1917	OHX	6	0
74	B1	3489	OHX	3	0
74	C1	1964	OHX	6	0
74	D1	3454	OHX	1	0
74	AT	401	OHX	1	0
74	B1	3503	OHX	1	0
74	B1	3496	OHX	3	0
74	B1	3537	OHX	8	0
74	B1	3469	OHX	2	0
74	B1	3513	OHX	3	0
74	BT	201	OHX	2	0
74	D1	3489	OHX	2	0
74	Dg	101	OHX	11	0
74	B3	211	OHX	1	0
74	B1	3559	OHX	1	0
74	D3	204	OHX	1	0
74	B1	3563	OHX	5	0
74	D1	3537	OHX	3	0
74	B1	3428	OHX	8	0
74	D1	3619	OHX	1	0
74	B1	3567	OHX	7	0
74	B1	3587	OHX	7	0
74	D1	3530	OHX	2	0
74	D1	3456	OHX	1	0
74	B1	3505	OHX	4	0
74	A1	1916	OHX	5	0
74	D1	3480	OHX	4	0
74	D1	3551	OHX	1	0
74	D1	3413	OHX	3	0
74	B1	3471	OHX	1	0
74	C1	1929	OHX	1	0
74	D1	3430	OHX	4	0
74	D2	207	OHX	6	0
74	C1	1928	OHX	5	0
74	B1	3581	OHX	7	0
74	AS	101	OHX	18	0
74	A1	1923	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	D3	212	OHX	12	0
74	A1	1937	OHX	2	0
74	A1	1915	OHX	5	0
74	B2	204	OHX	2	0
74	A1	1902	OHX	1	0
74	B1	3592	OHX	1	0
74	D1	3574	OHX	7	0
74	A1	1949	OHX	4	0
74	B1	3440	OHX	1	0
74	D1	3570	OHX	1	0
74	Dd	101	OHX	11	0
74	B1	3438	OHX	12	0
74	D1	3470	OHX	2	0
74	A1	1932	OHX	2	0
74	D1	3447	OHX	3	0
74	C1	1985	OHX	1	0
74	C1	1970	OHX	6	0
74	D1	3556	OHX	3	0
74	D1	3419	OHX	1	0
74	D1	3463	OHX	6	0
74	CS	101	OHX	16	0
74	D1	3407	OHX	1	0
74	B1	3558	OHX	6	0
74	C1	1991	OHX	1	0
74	B1	3539	OHX	2	0
74	B1	3450	OHX	17	0
74	D1	3416	OHX	1	0
74	C1	1944	OHX	1	0
74	C1	1914	OHX	1	0
74	C1	1995	OHX	3	0
74	D1	3599	OHX	3	0
74	D1	3588	OHX	5	0
74	C1	1907	OHX	1	0
74	C1	1955	OHX	5	0
74	D1	3539	OHX	1	0
74	A1	1990	OHX	3	0
74	B1	3529	OHX	4	0
74	B1	3479	OHX	10	0
74	C1	1961	OHX	2	0
74	C1	1951	OHX	2	0
74	A1	1908	OHX	1	0
74	A1	1976	OHX	5	0

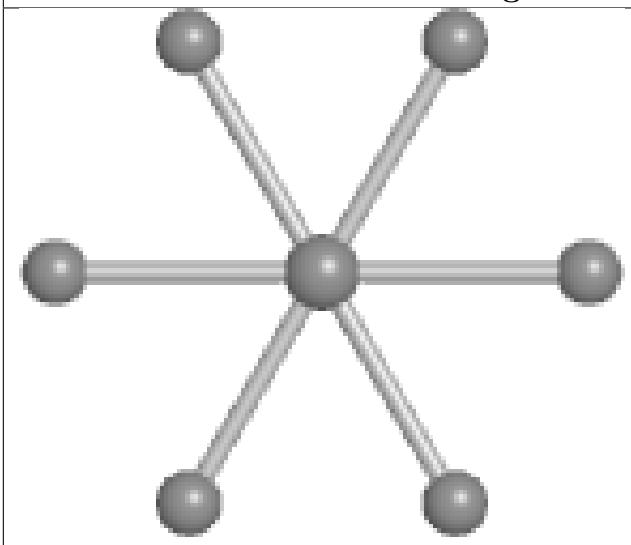
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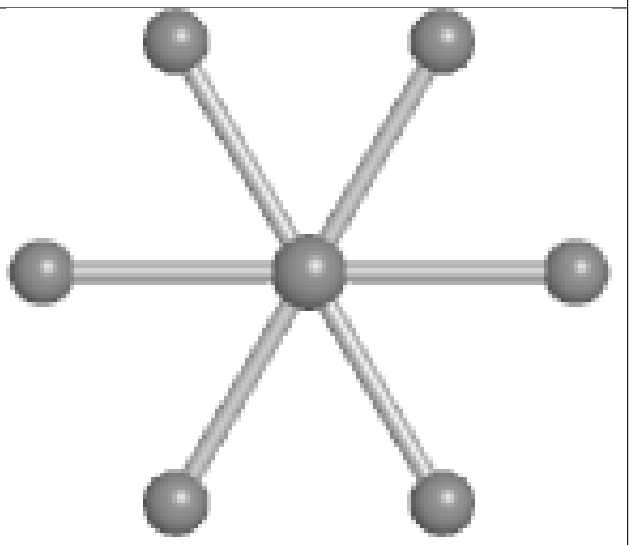
Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	A1	1943	OHX	5	0
74	C1	1912	OHX	1	0
74	D2	201	OHX	8	0
74	A1	1909	OHX	3	0
74	B1	3456	OHX	2	0
74	B1	3442	OHX	1	0
74	B1	3464	OHX	1	0
74	D1	3559	OHX	3	0
74	B1	3415	OHX	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

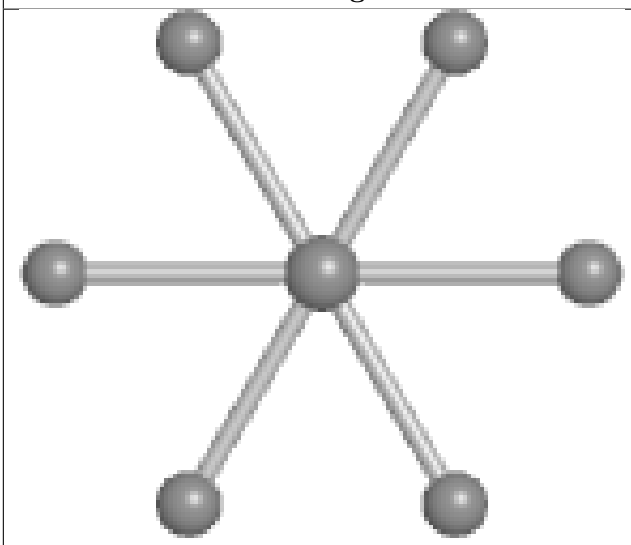
Ligand OHX C1 1978



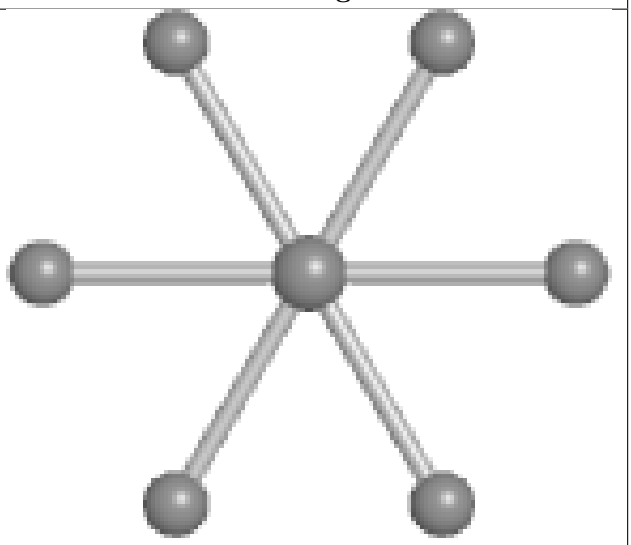
Bond lengths



Bond angles

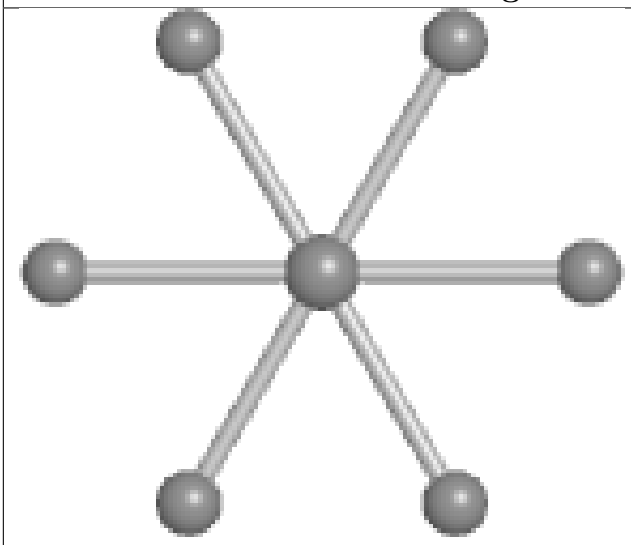


Torsions

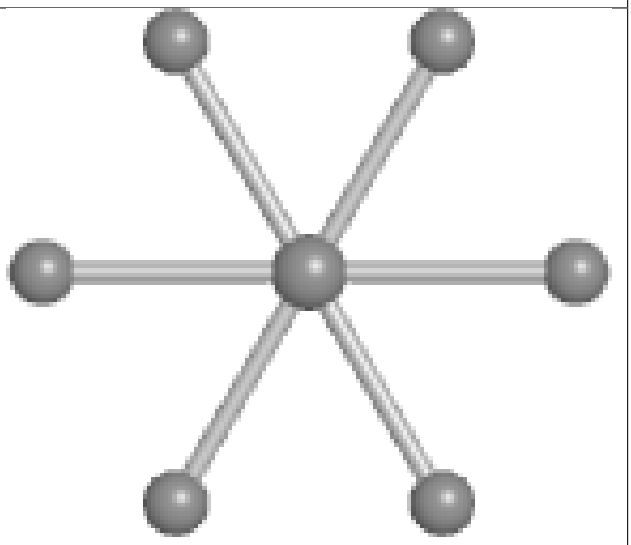


Rings

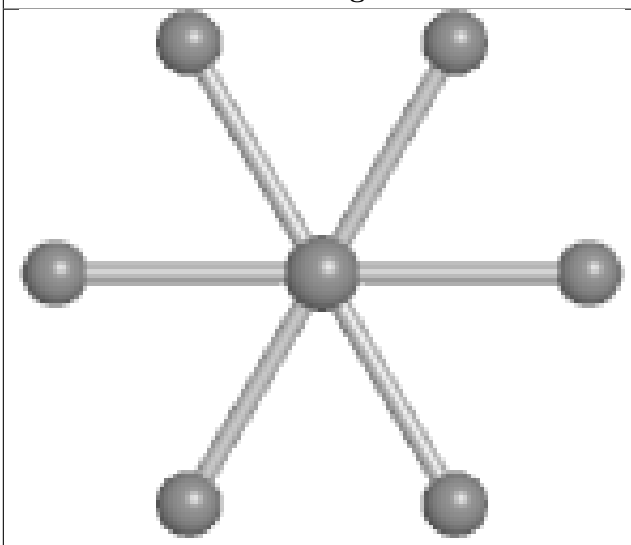
Ligand OHX A1 1953



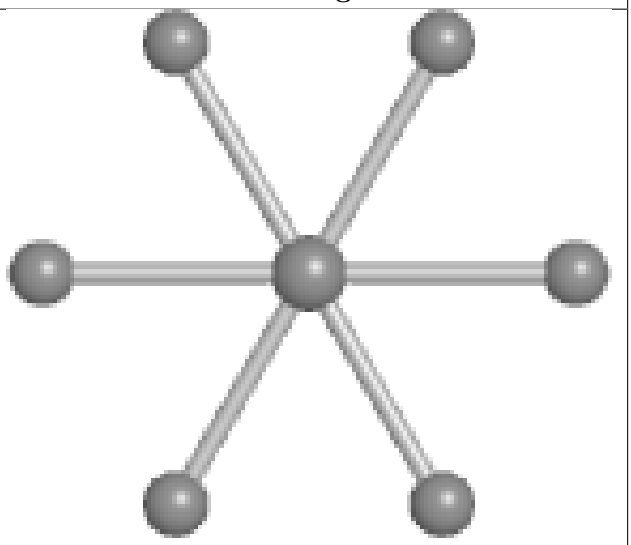
Bond lengths



Bond angles

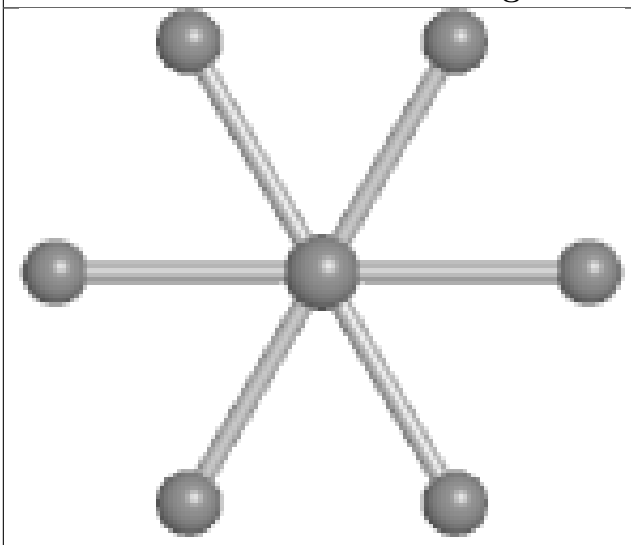


Torsions

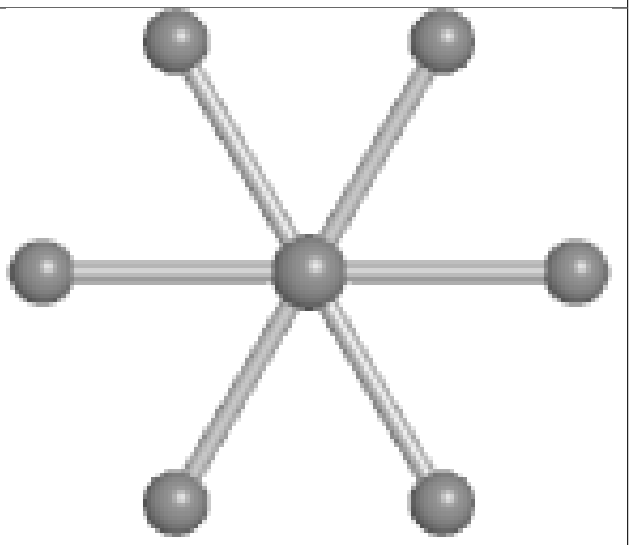


Rings

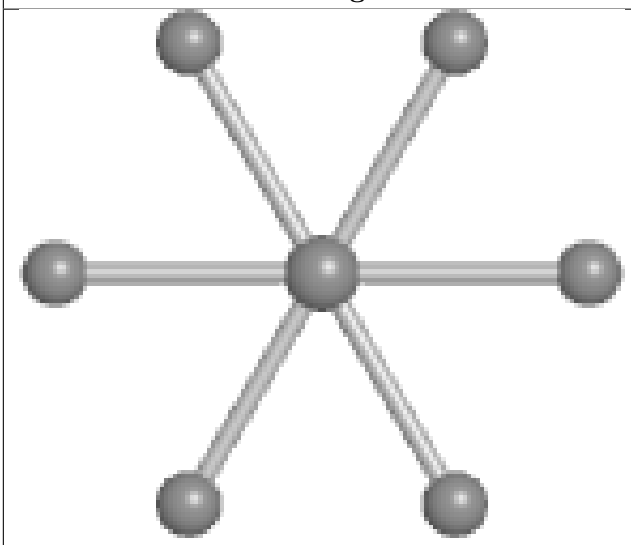
Ligand OHX C1 1957



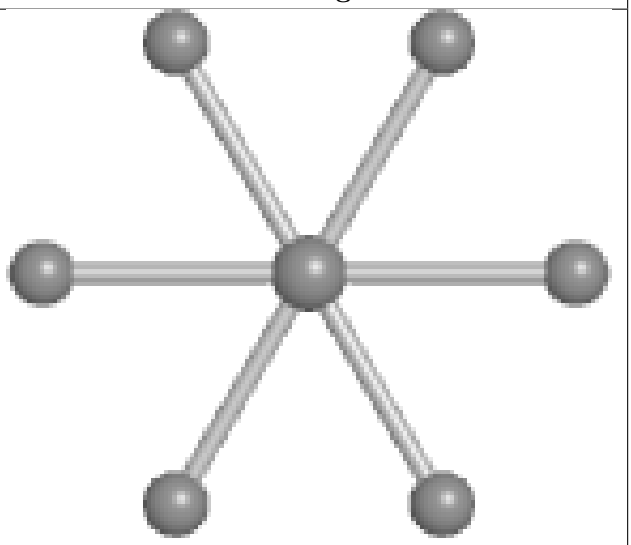
Bond lengths



Bond angles

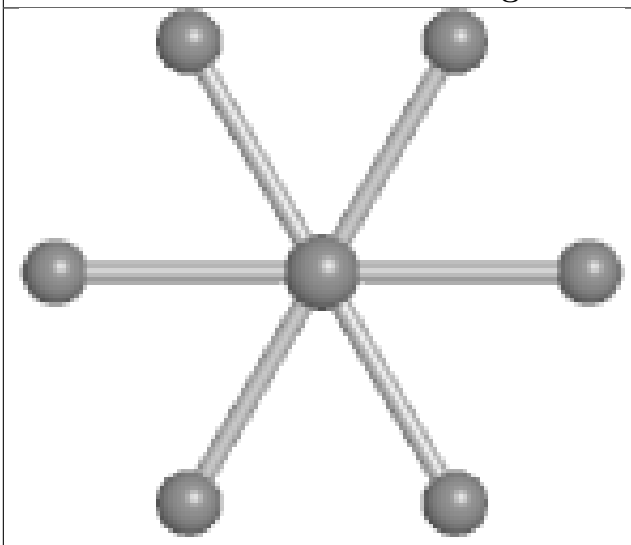


Torsions

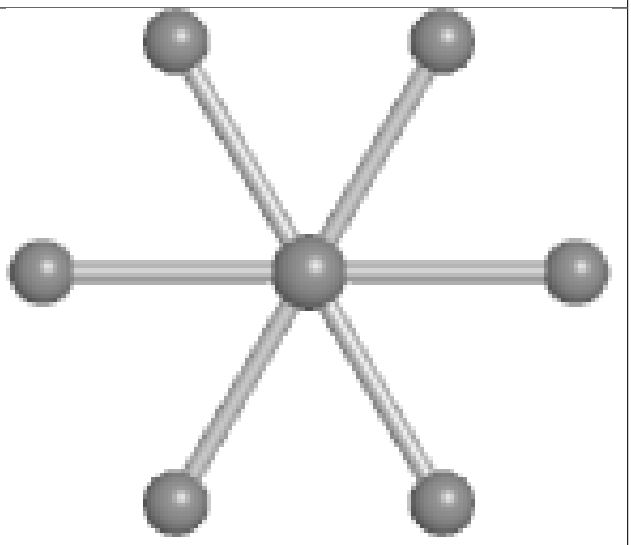


Rings

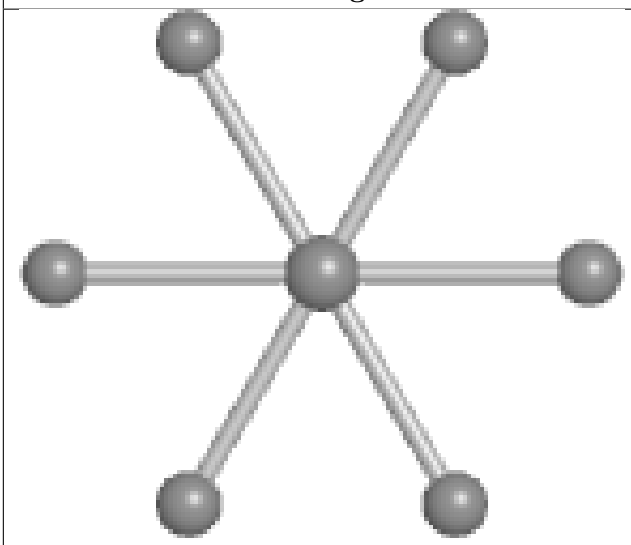
Ligand OHX D1 3509



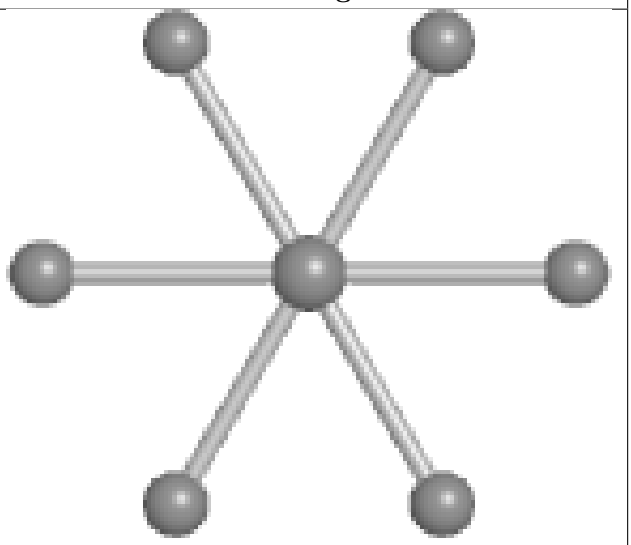
Bond lengths



Bond angles

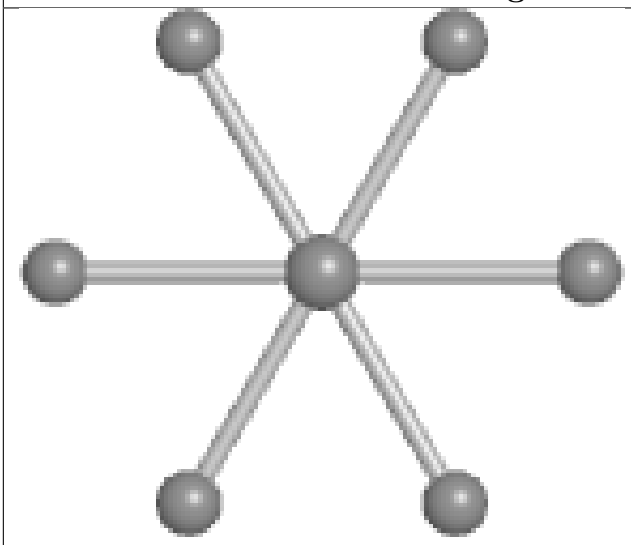


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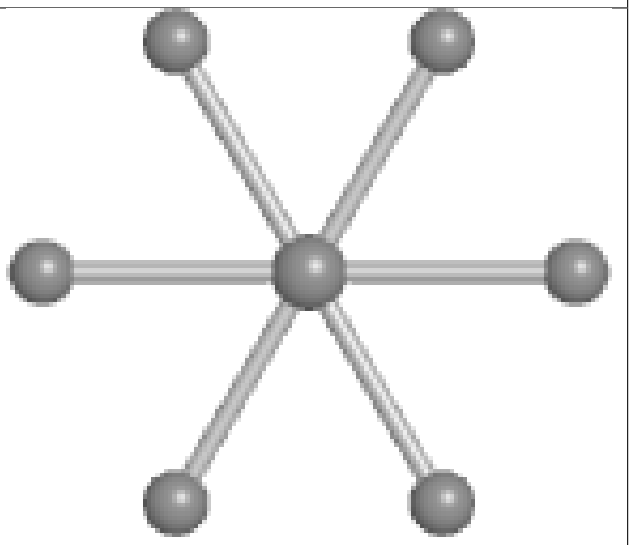


Rings

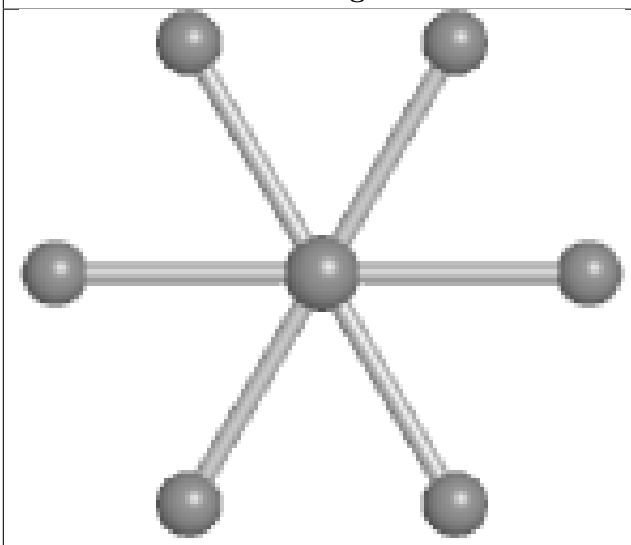
Ligand OHX BO 301



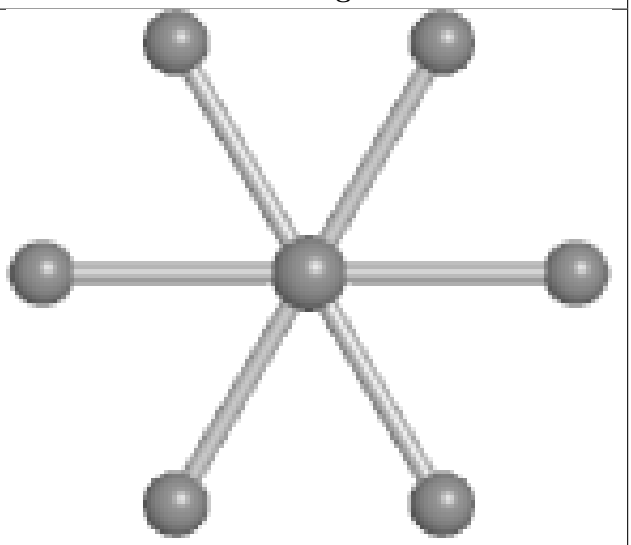
Bond lengths



Bond angles

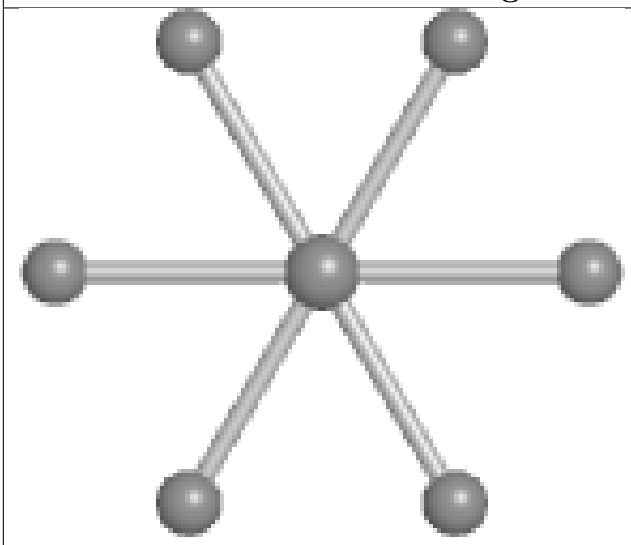


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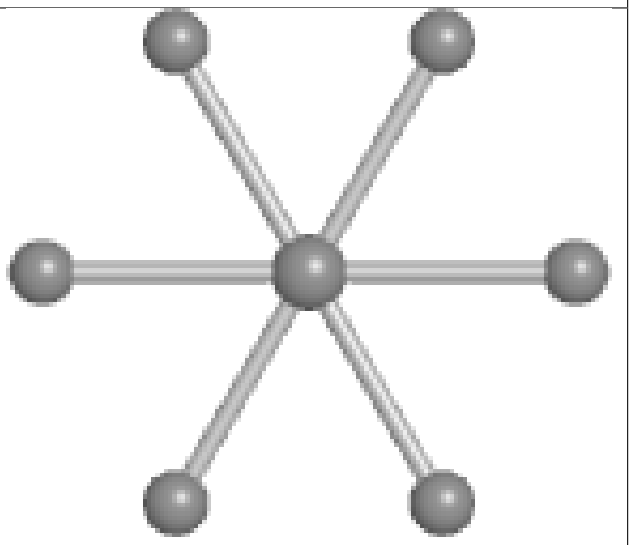


Rings

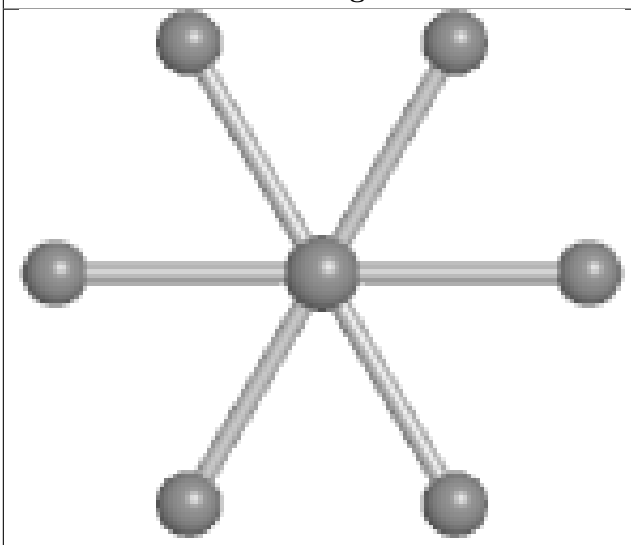
Ligand OHX D1 3519



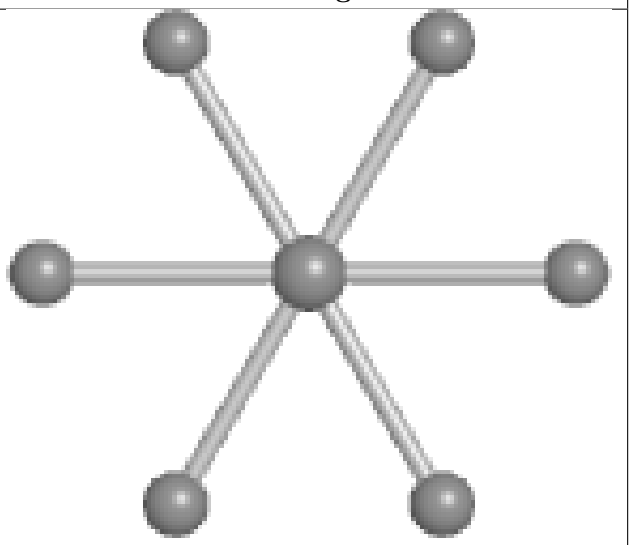
Bond lengths



Bond angles

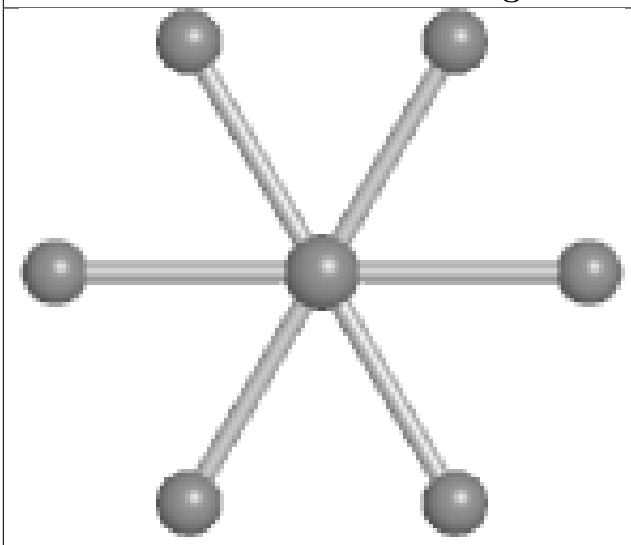


Torsions

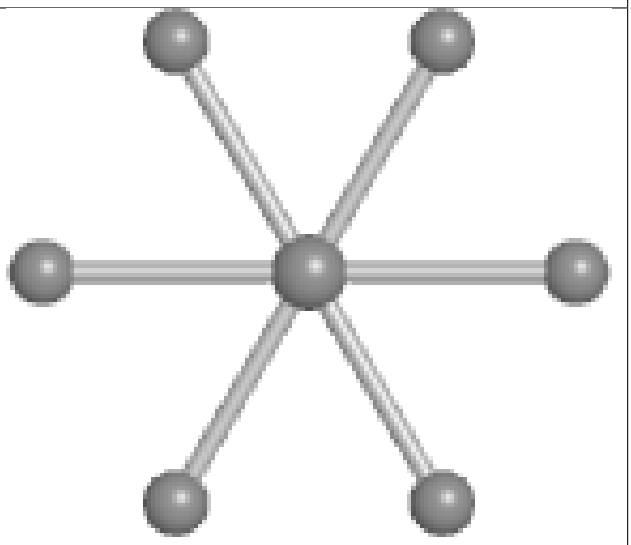


Rings

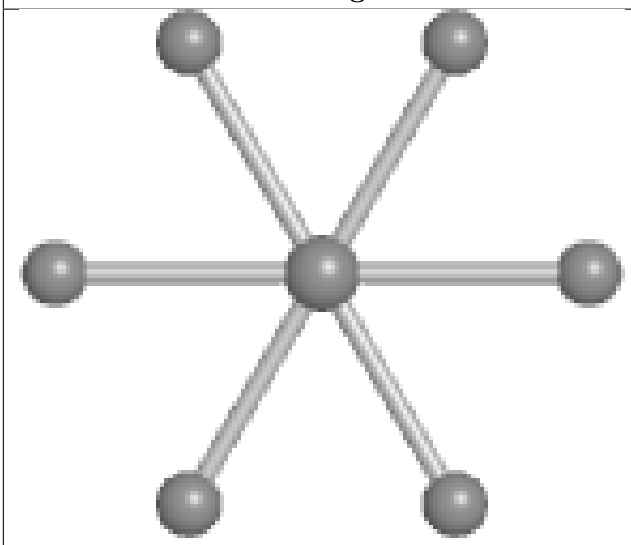
Ligand OHX C1 1974



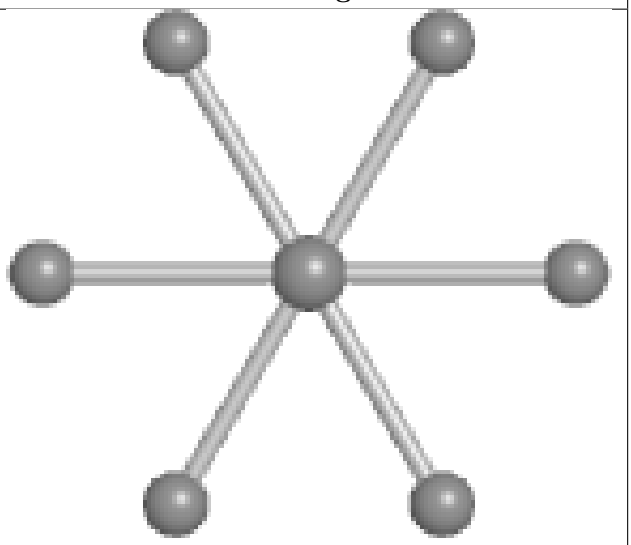
Bond lengths



Bond angles

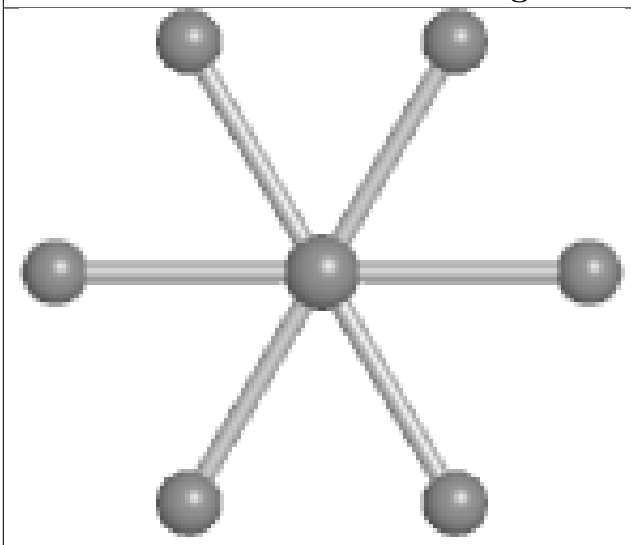


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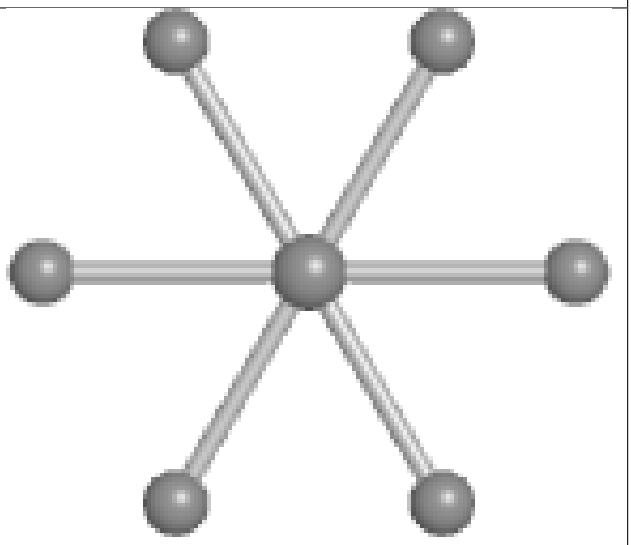


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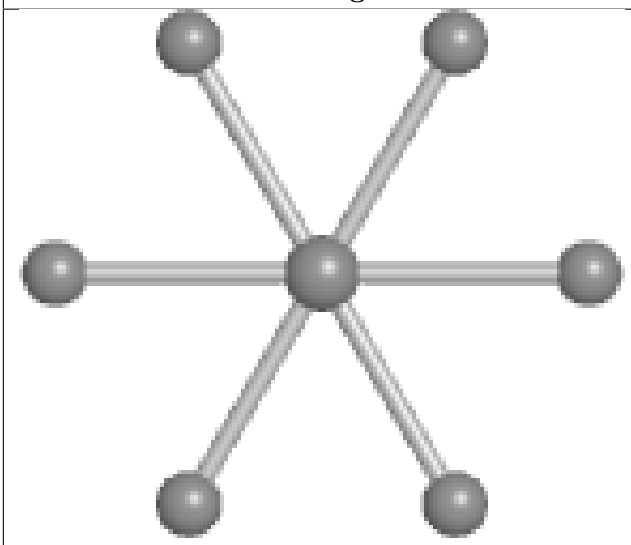
Ligand OHX D3 206



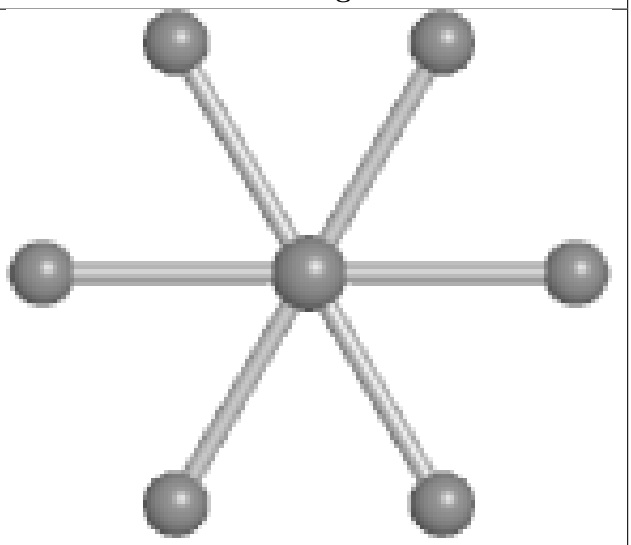
Bond lengths



Bond angles

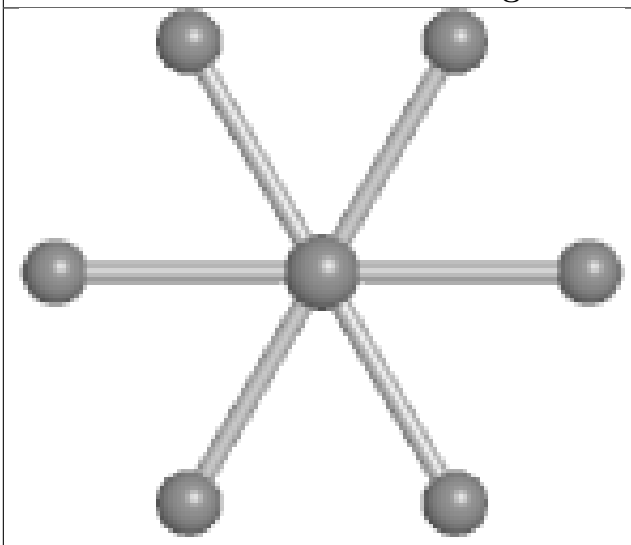


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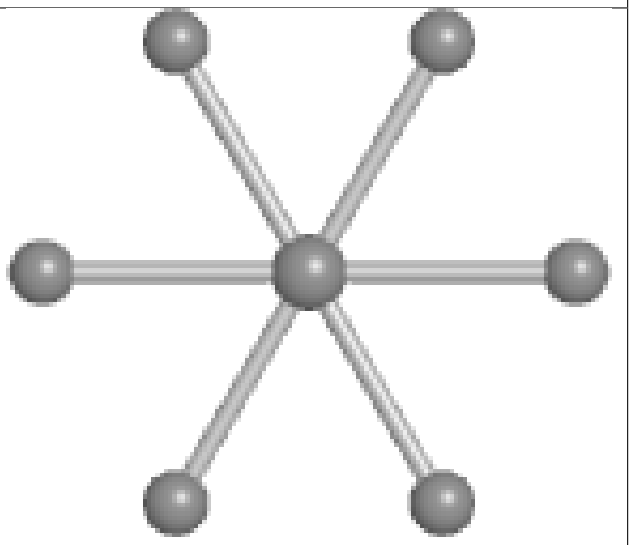


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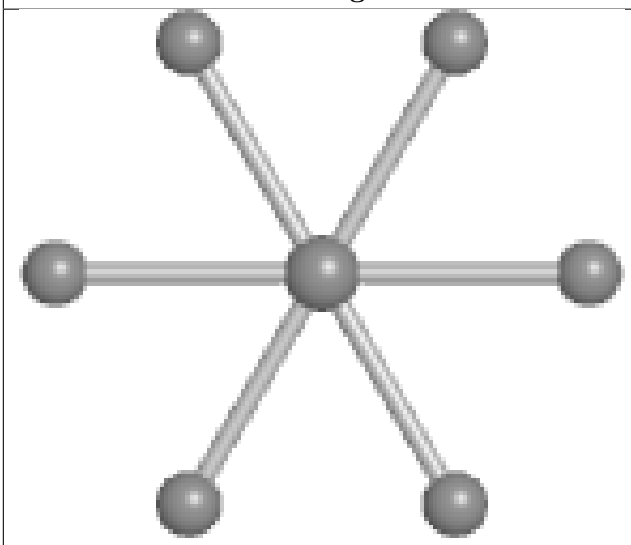
Ligand OHX B1 3554



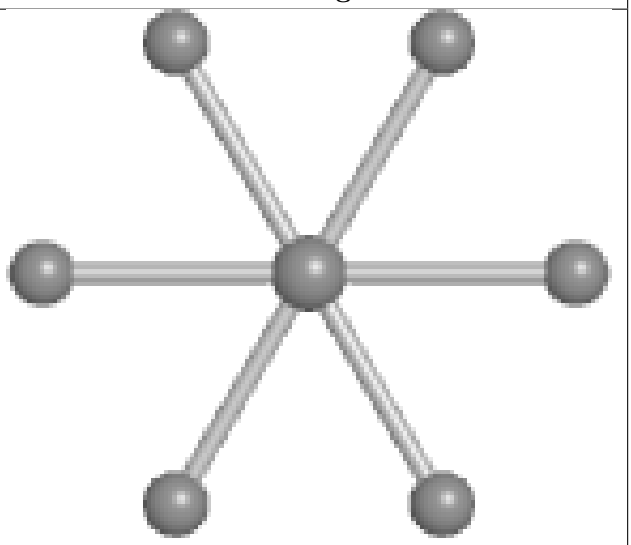
Bond lengths



Bond angles

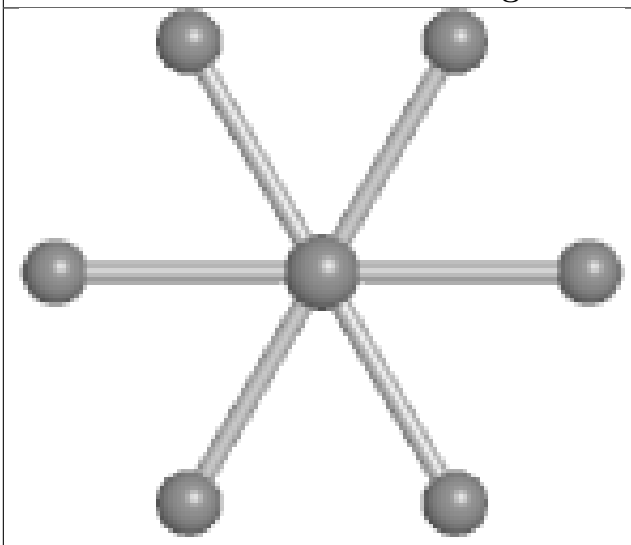


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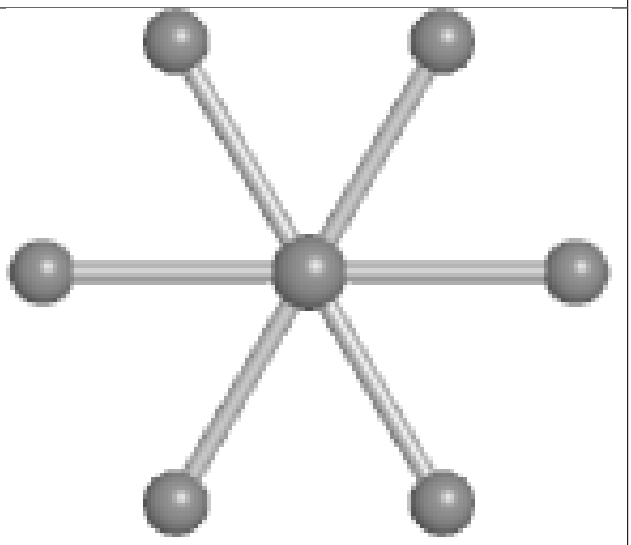


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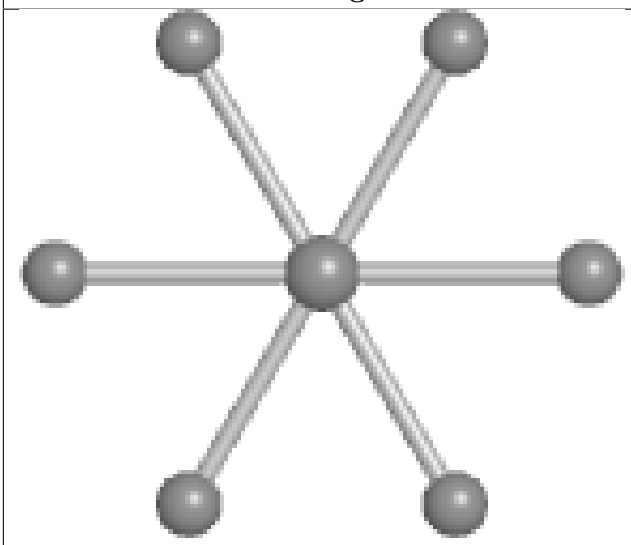
Ligand OHX A1 1978



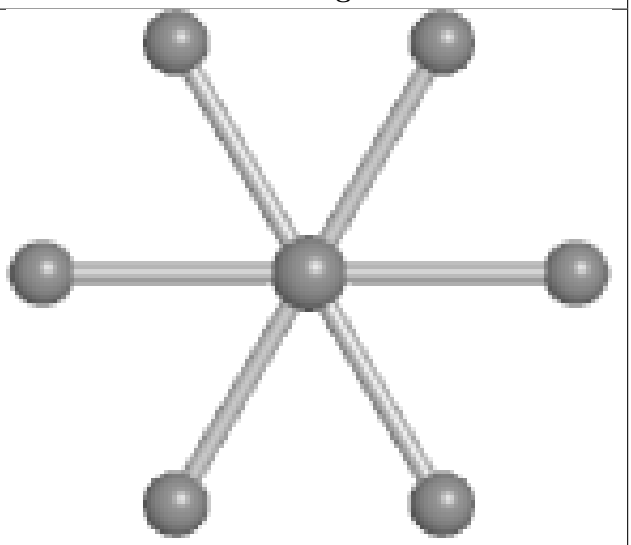
Bond lengths



Bond angles

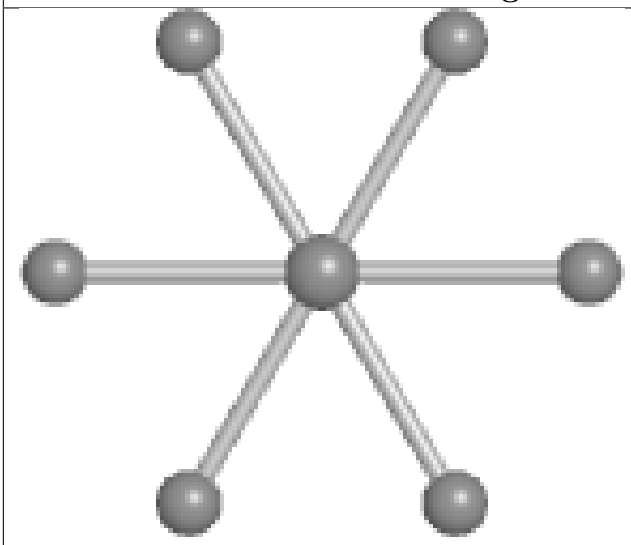


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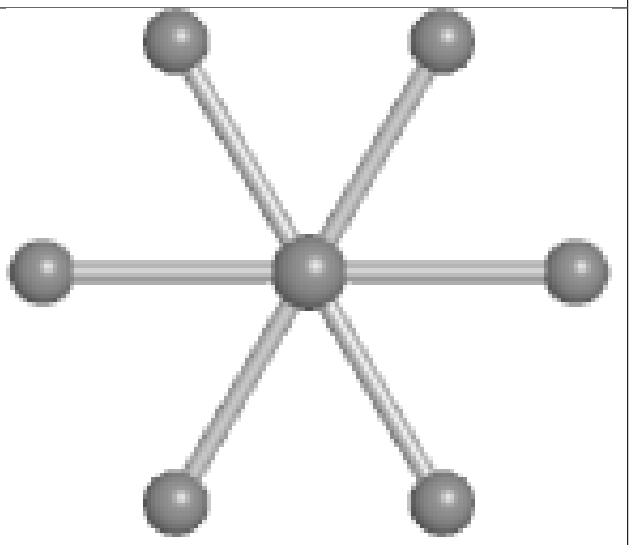


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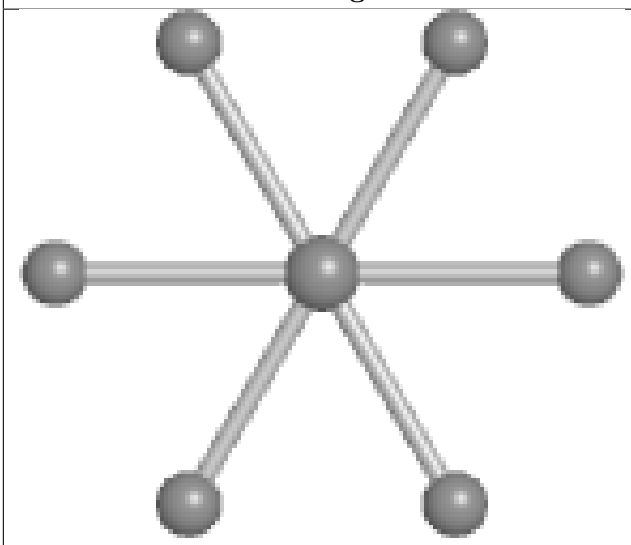
Ligand OHX D1 3506



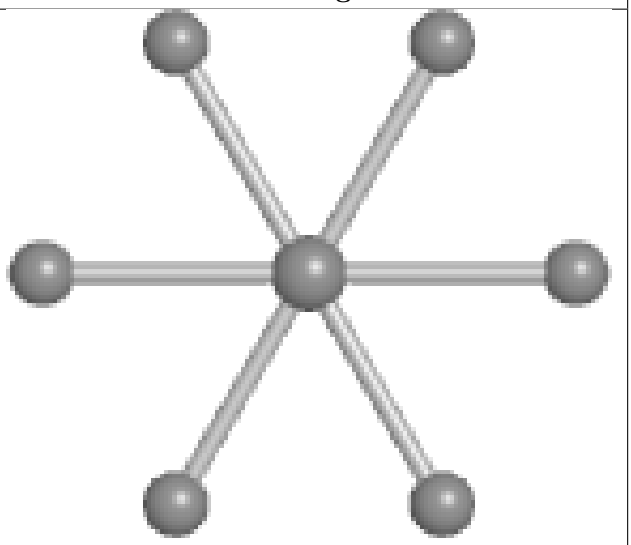
Bond lengths



Bond angles

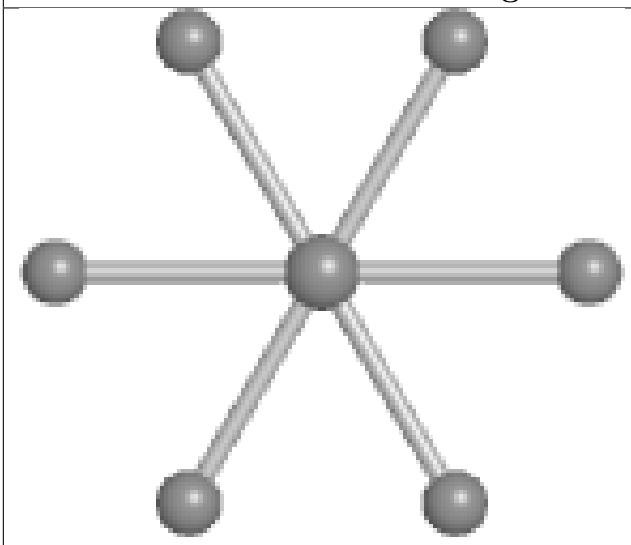


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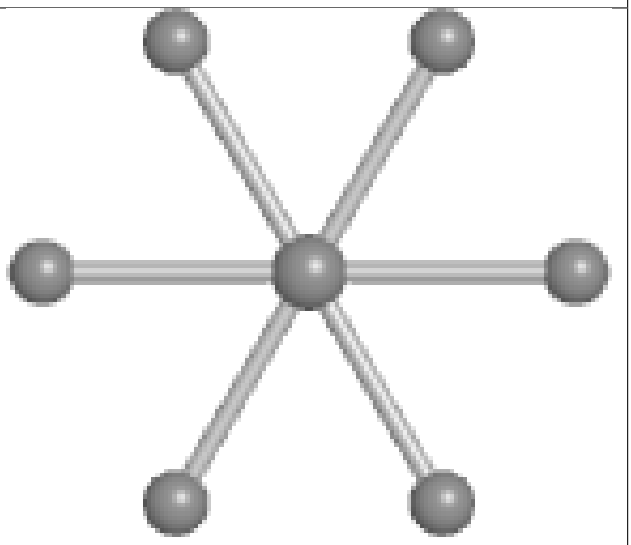


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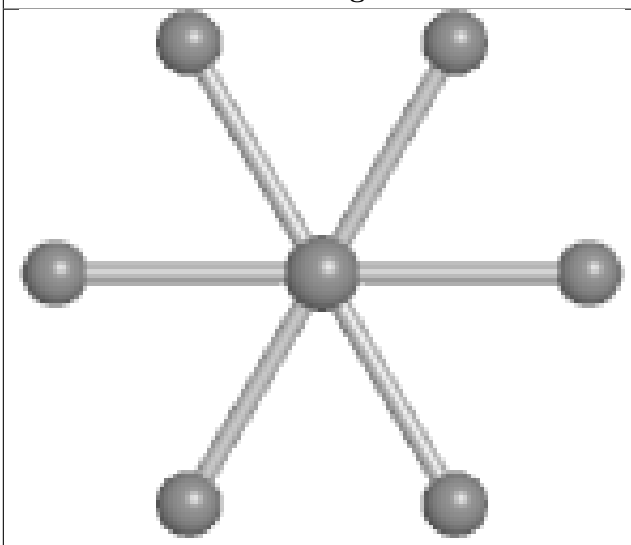
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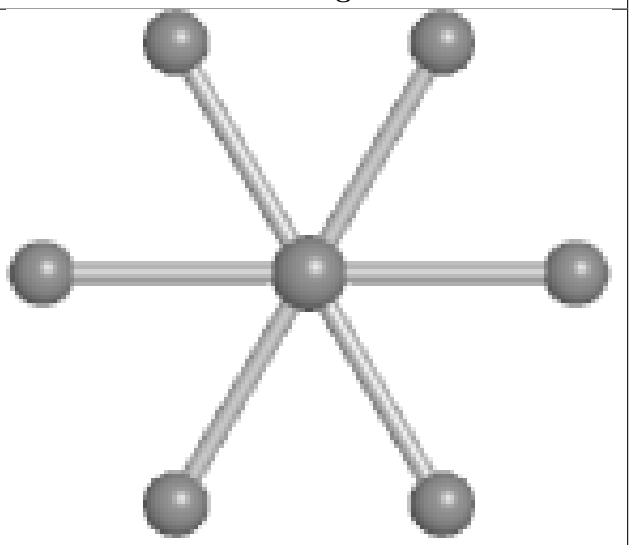
Bond lengths



Bond angles

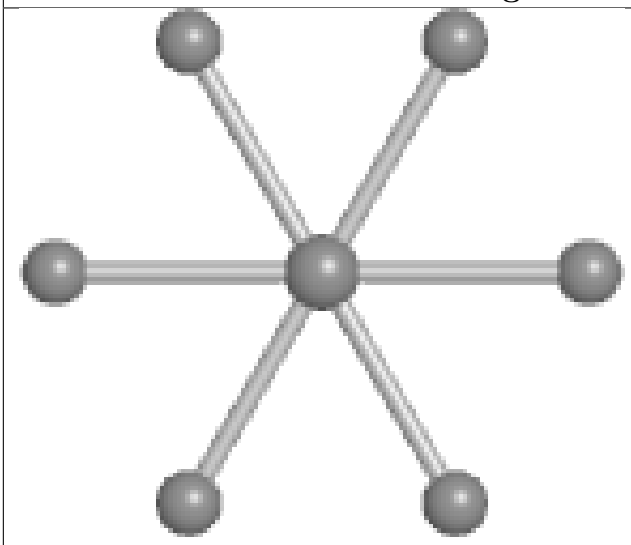


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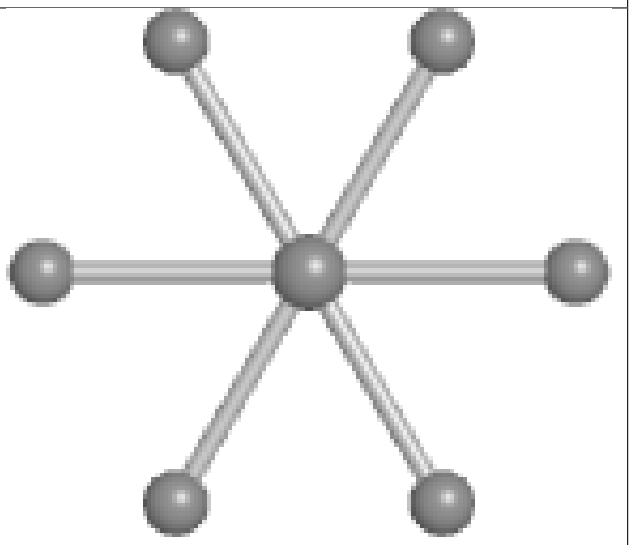


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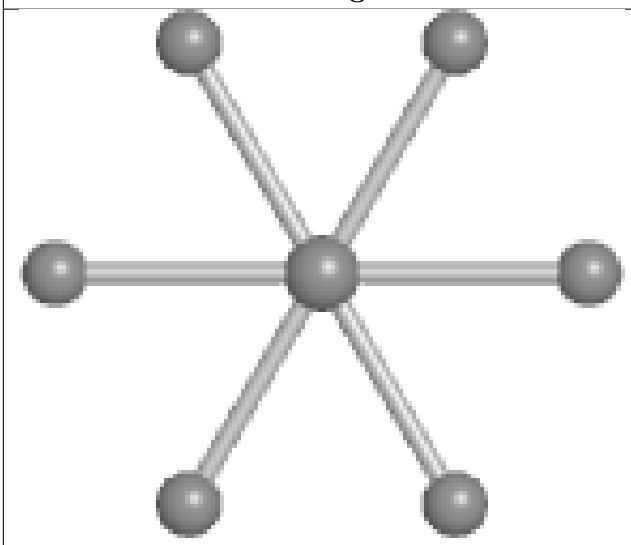
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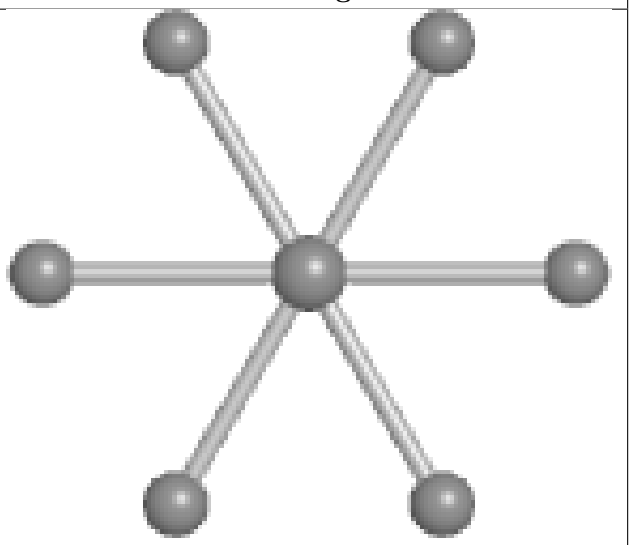
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Bond angles

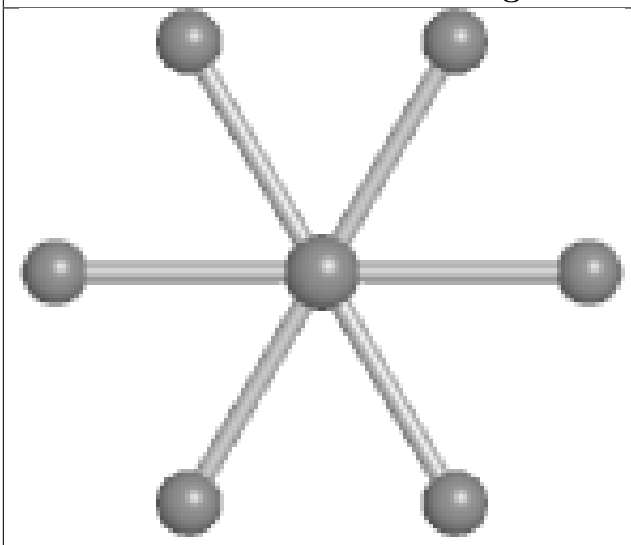


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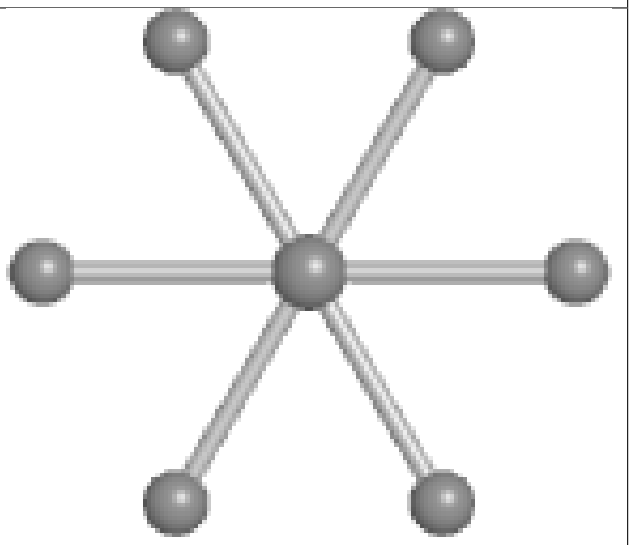


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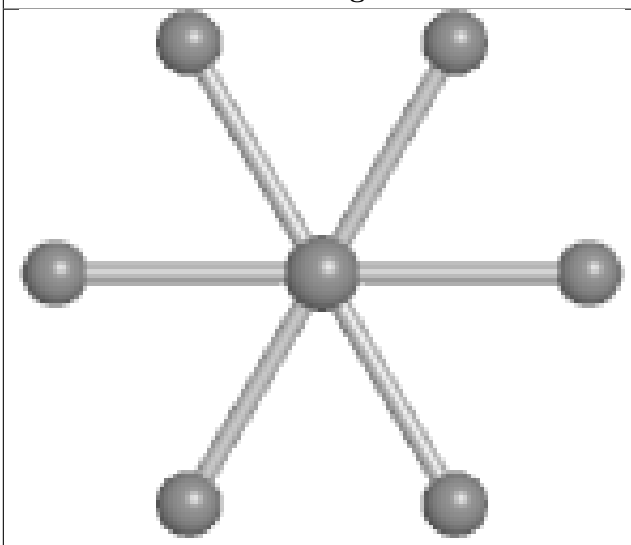
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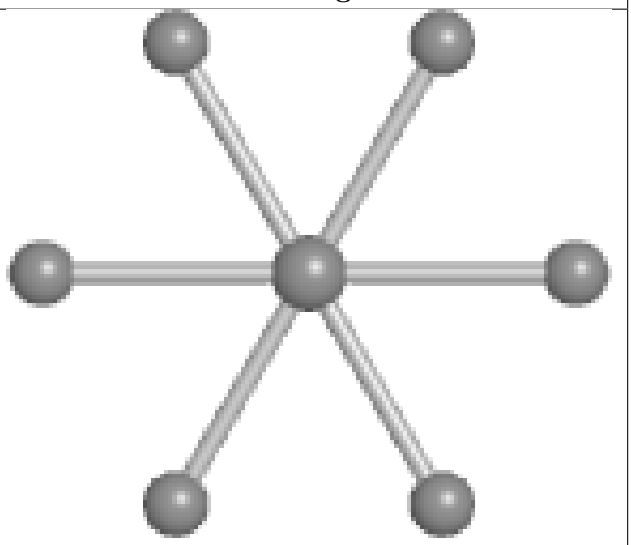
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Bond angles

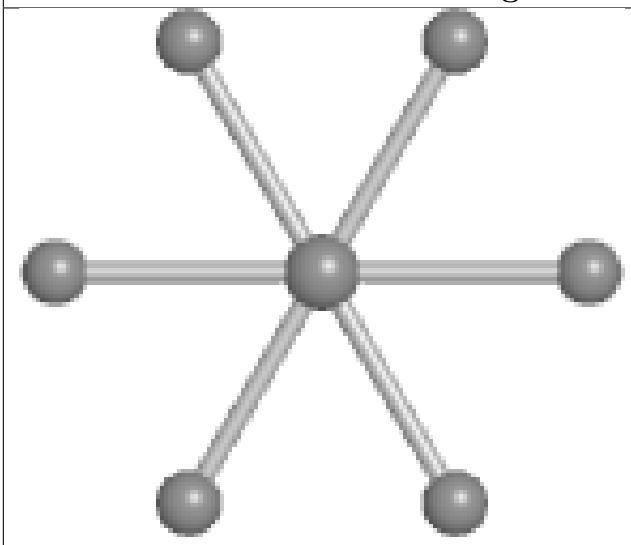


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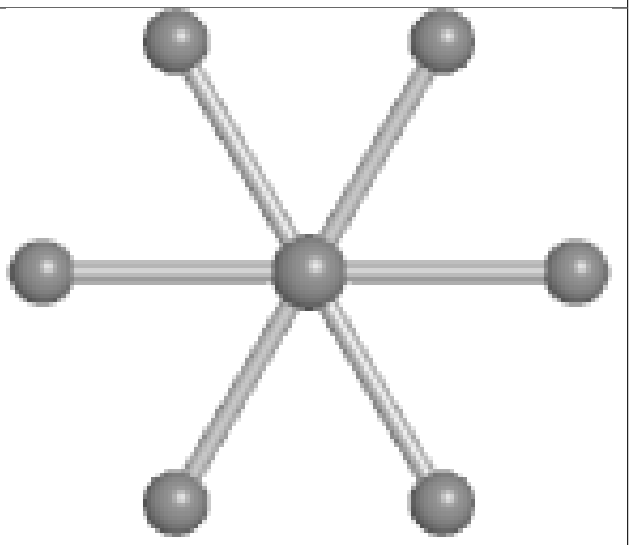


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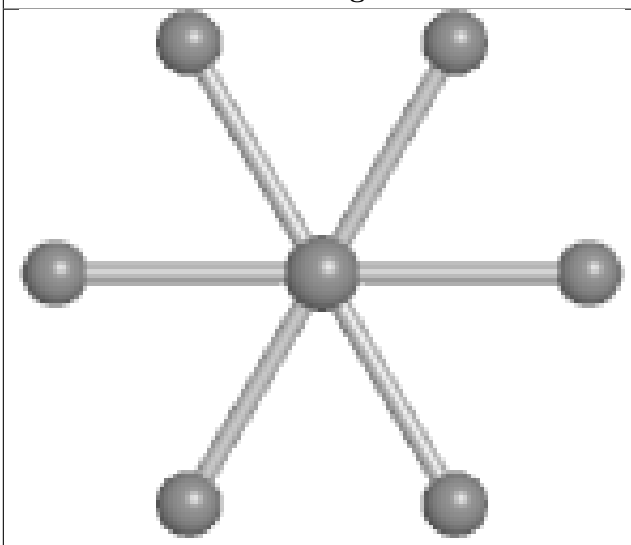
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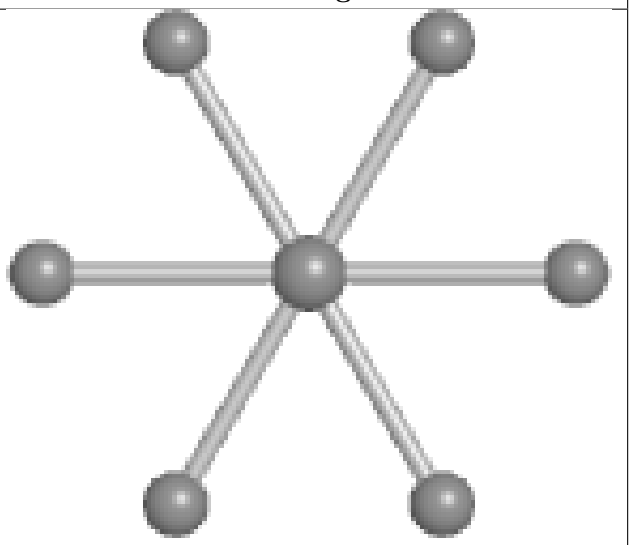
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Bond angles

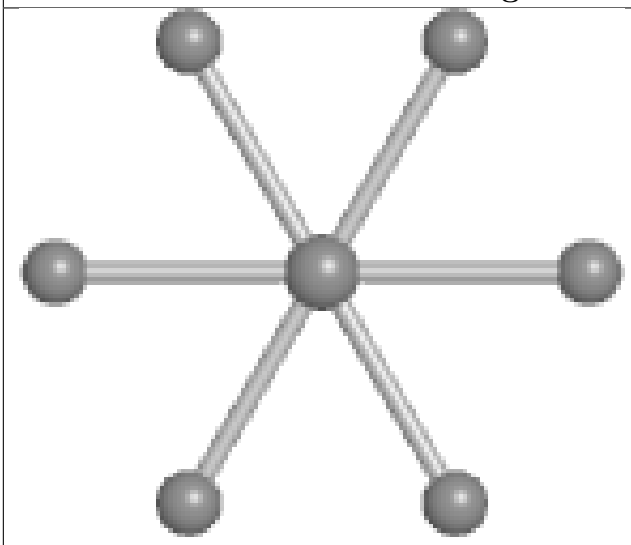


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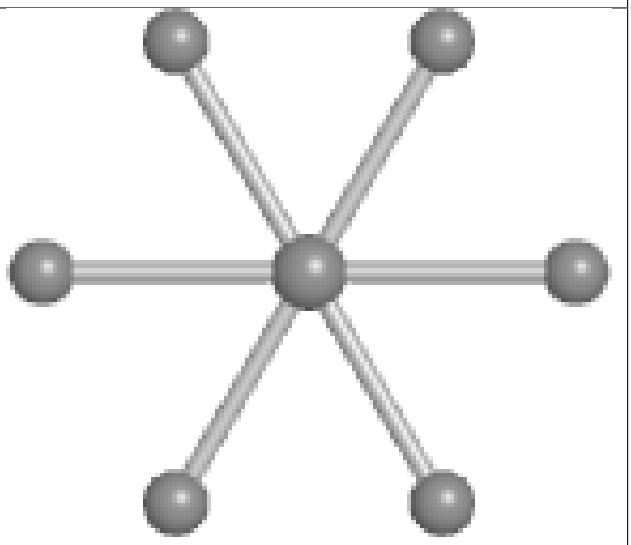


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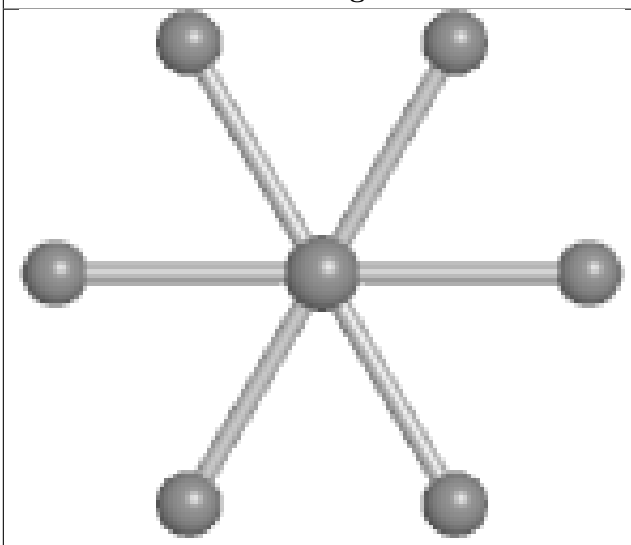
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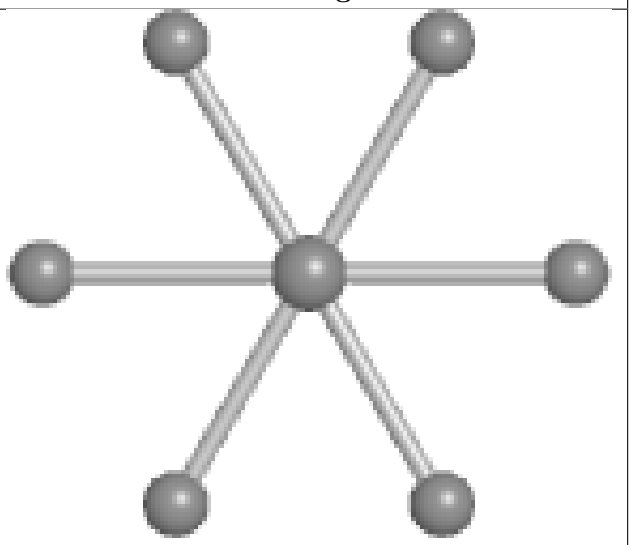
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Bond angles

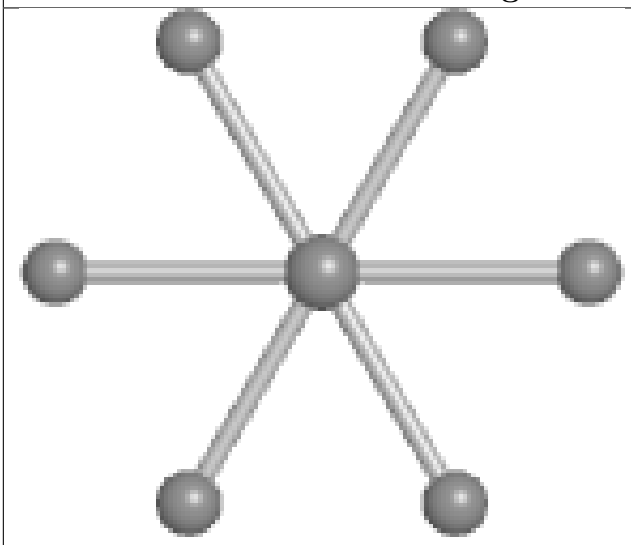


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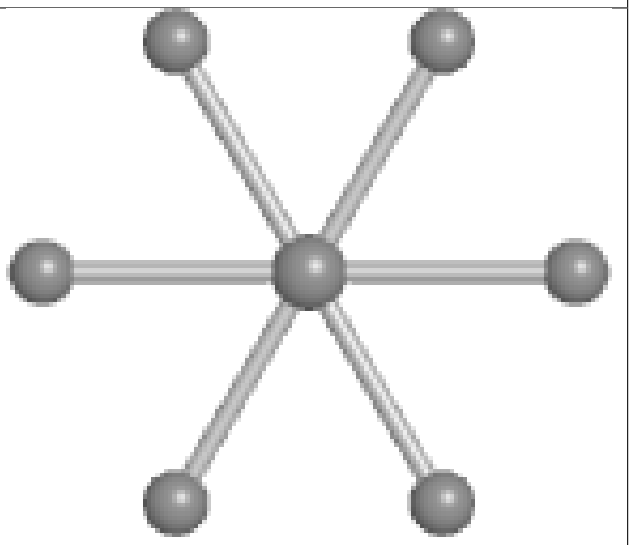


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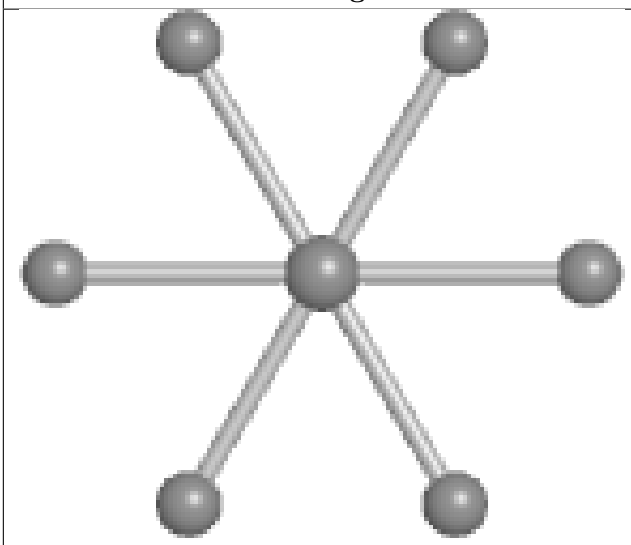
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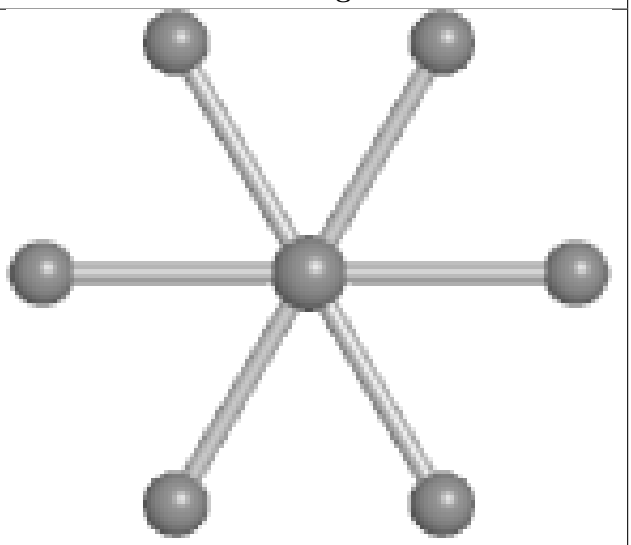
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Bond angles

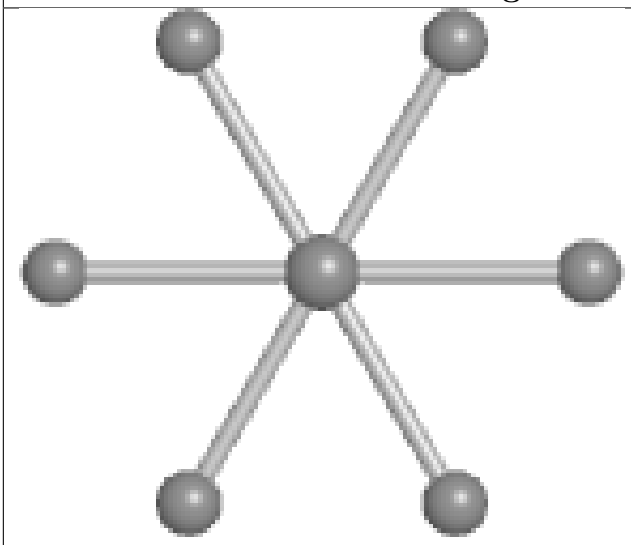


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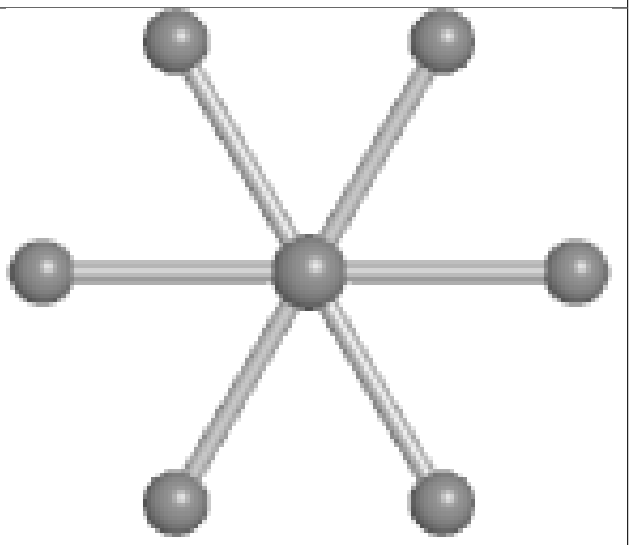


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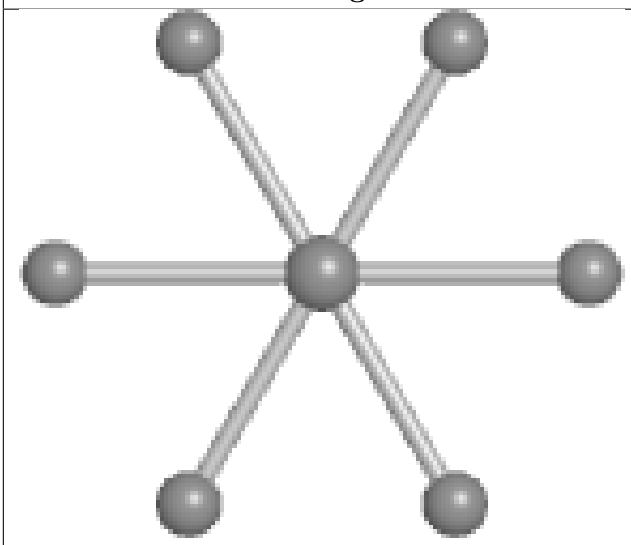
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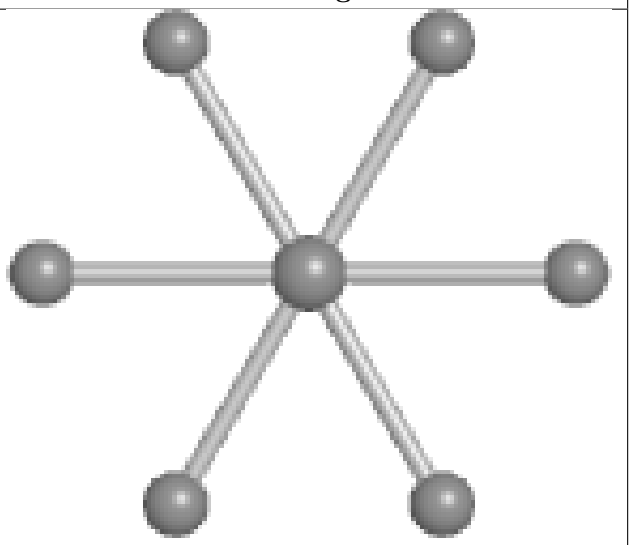
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Bond angles

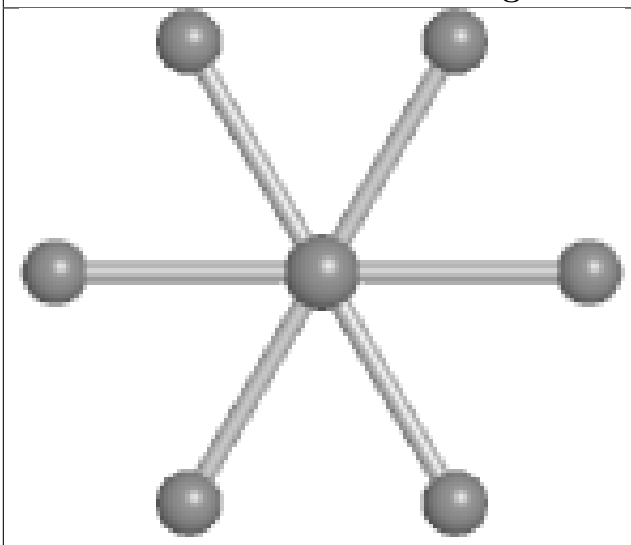


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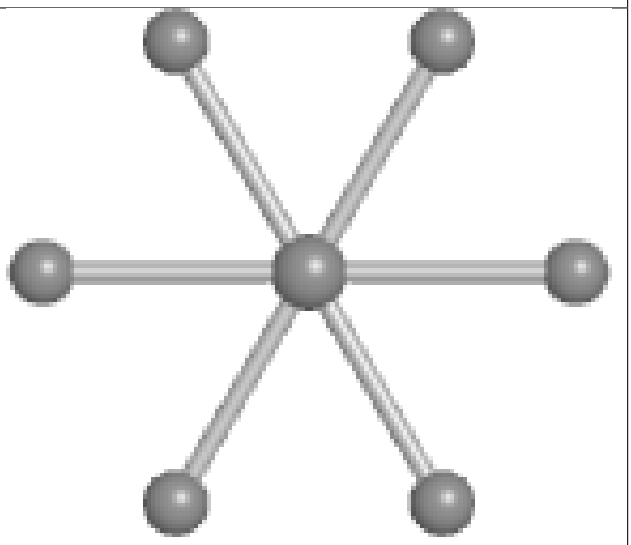


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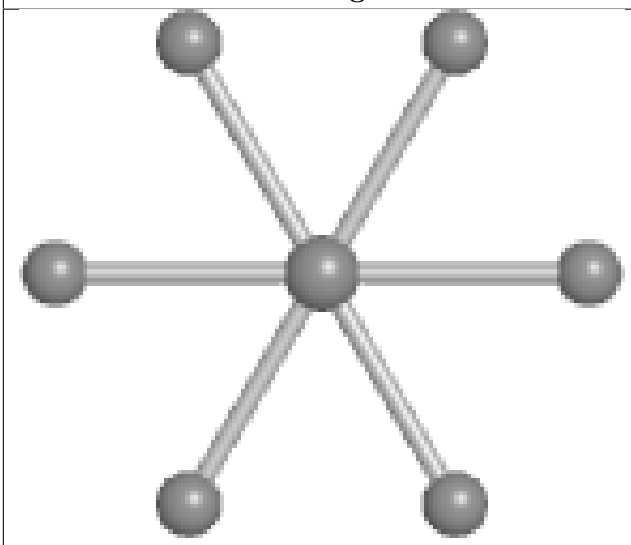
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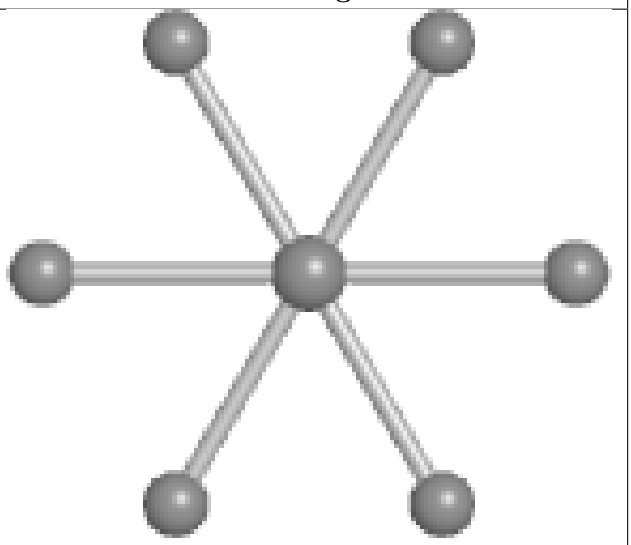
Bond lengths



Bond angles

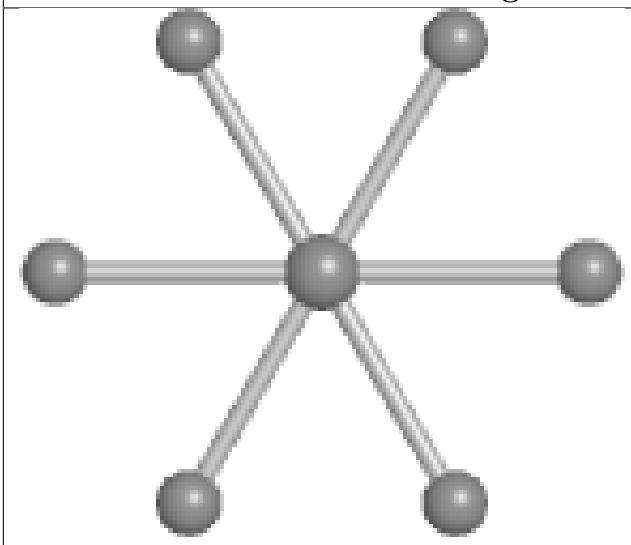


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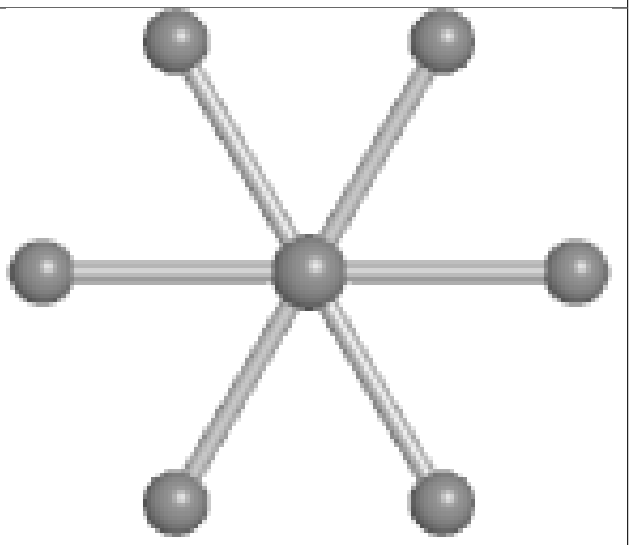


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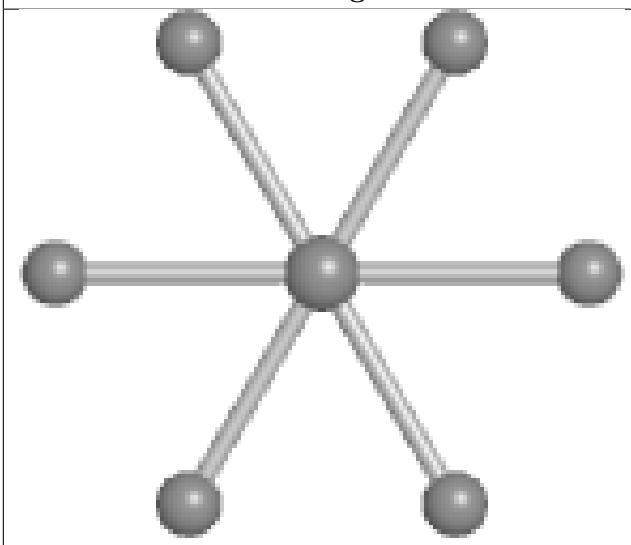
Ligand OHX D1 3545



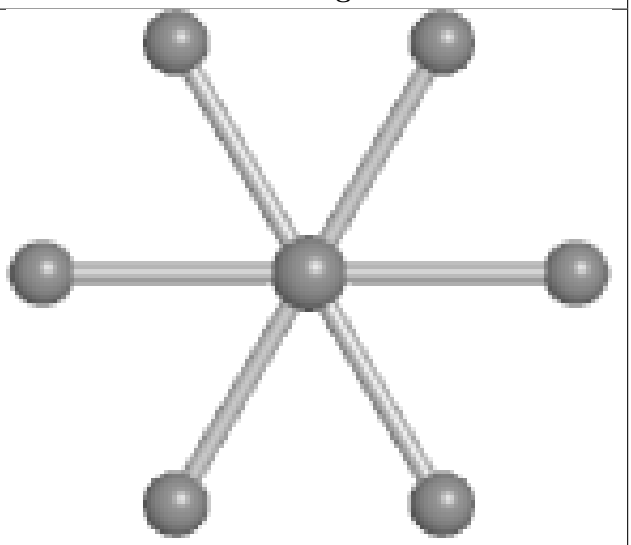
Bond lengths



Bond angles

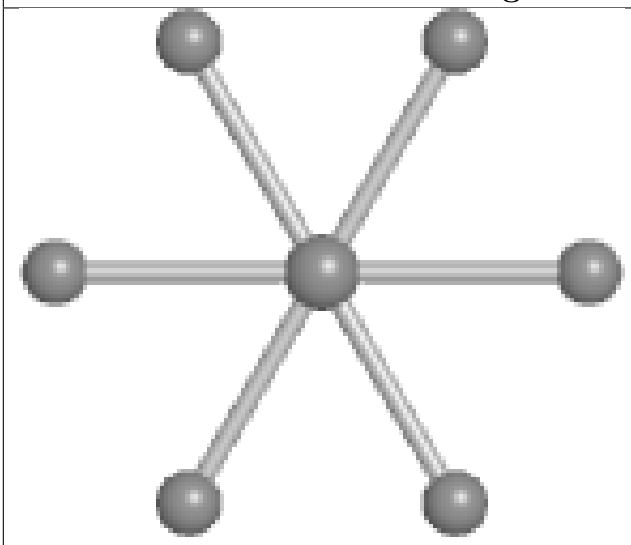


Torsions

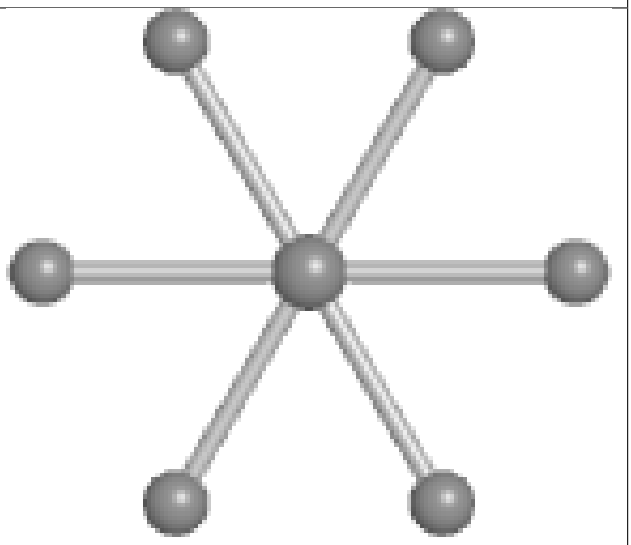


Rings

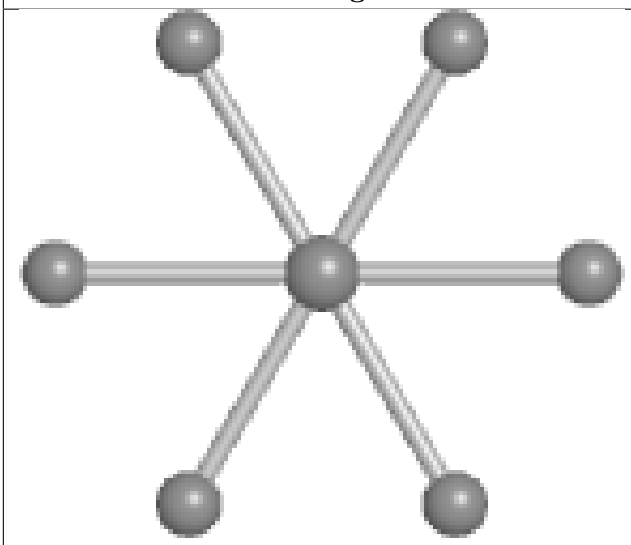
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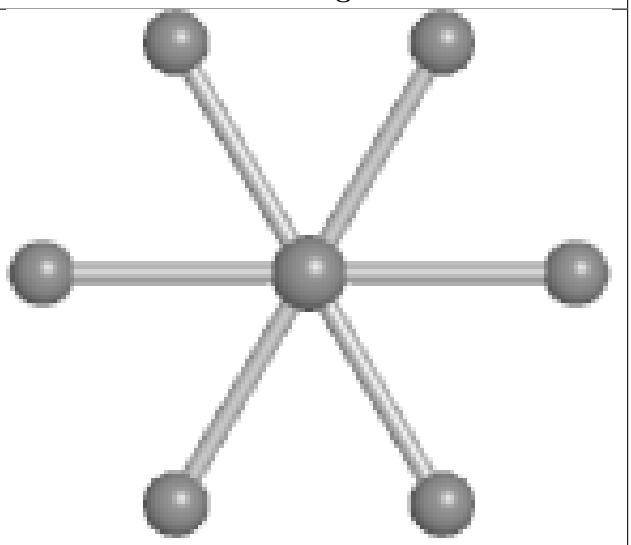
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Bond angles

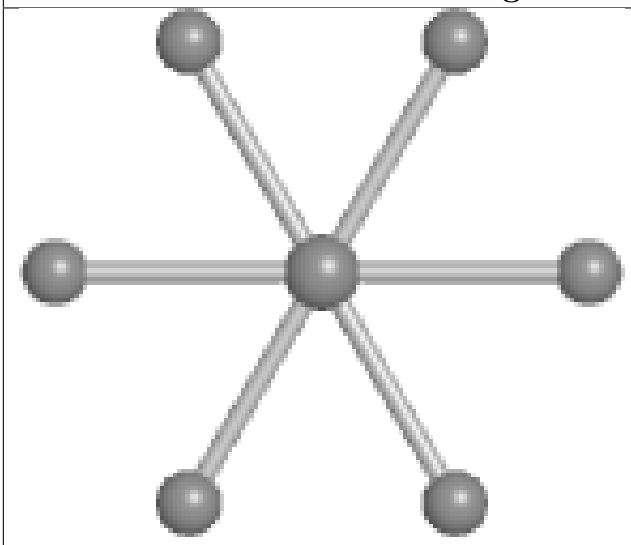


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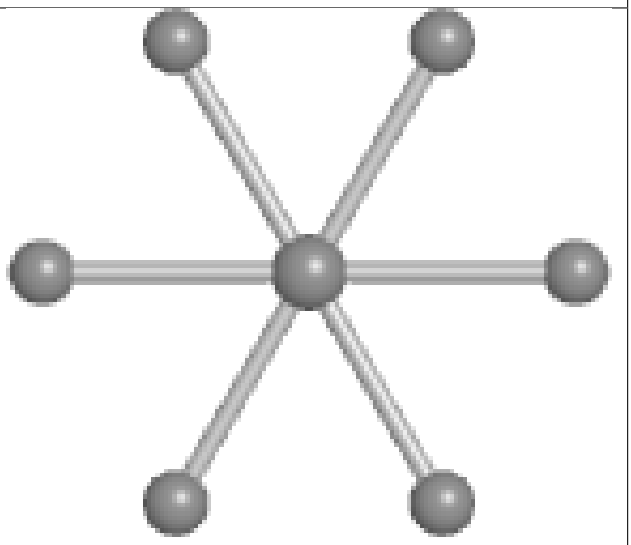


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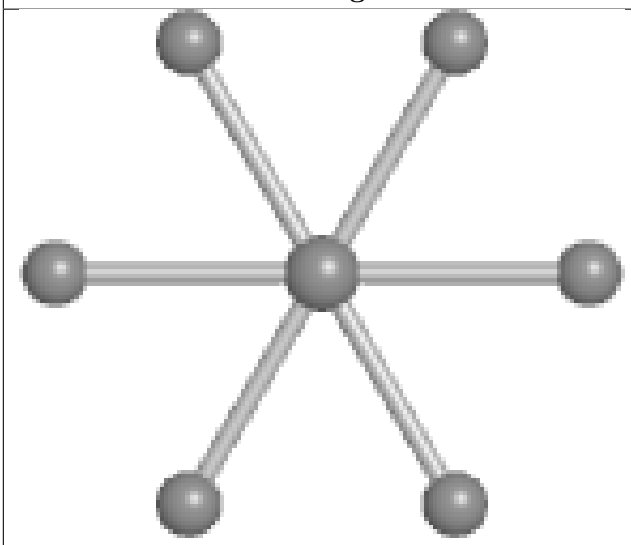
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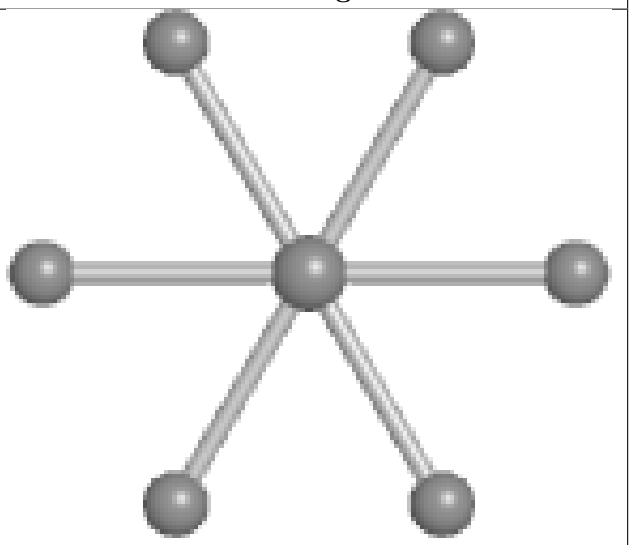
Bond lengths



Bond angles

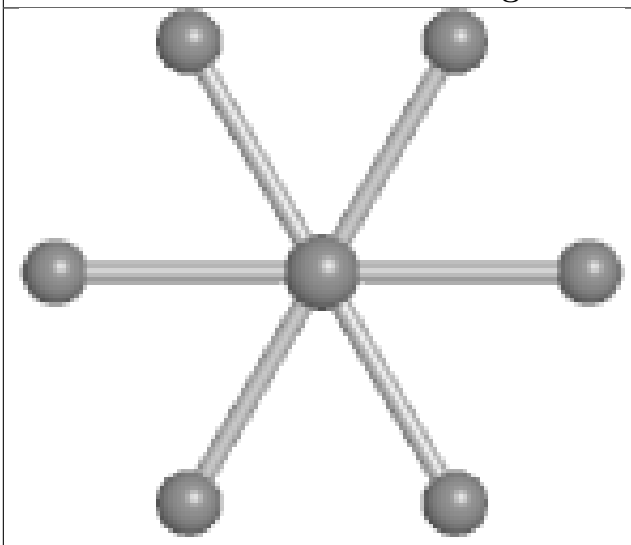


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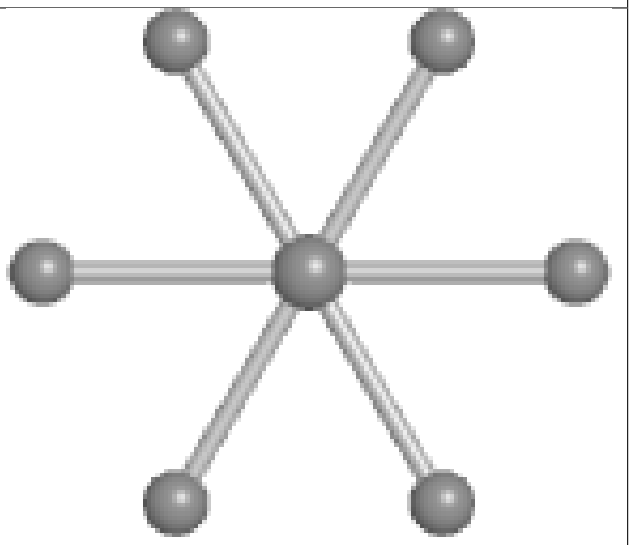


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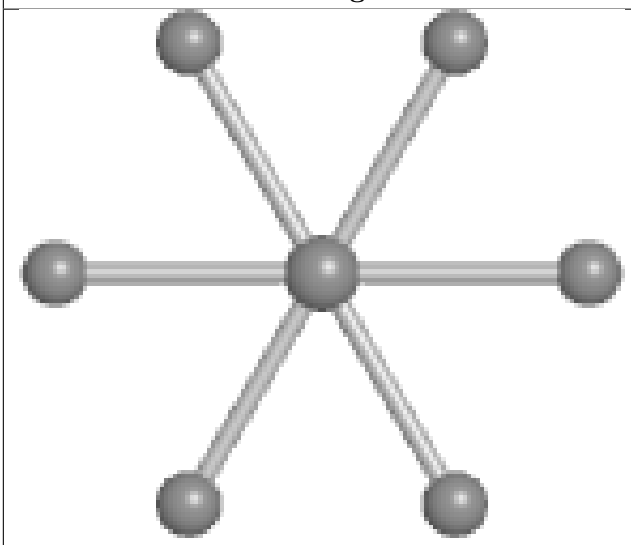
Ligand OHX A1 1974



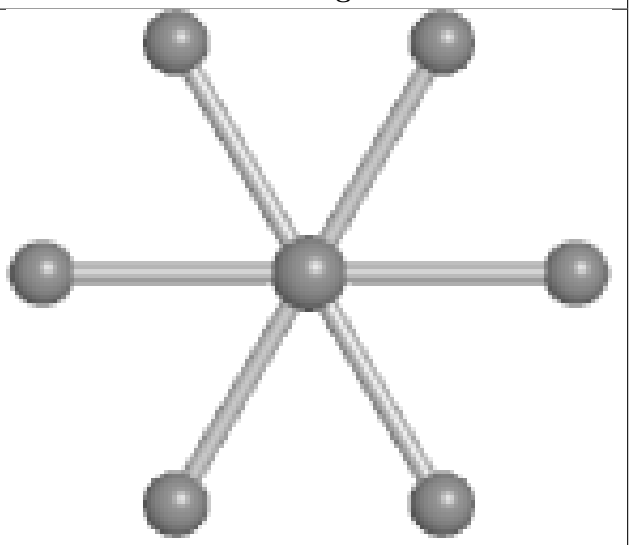
Bond lengths



Bond angles

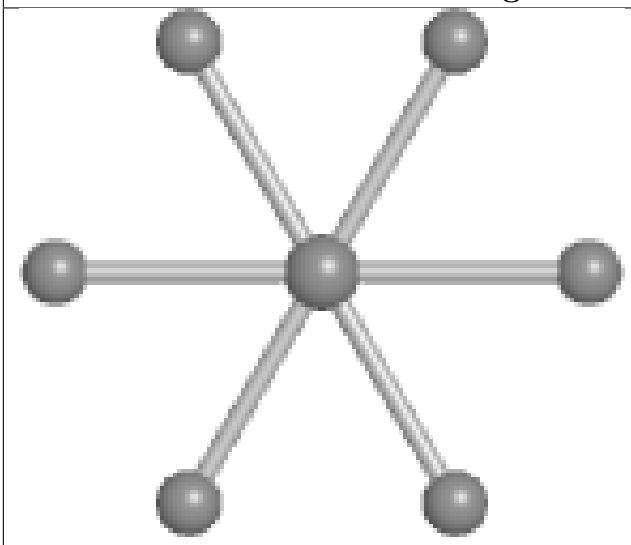


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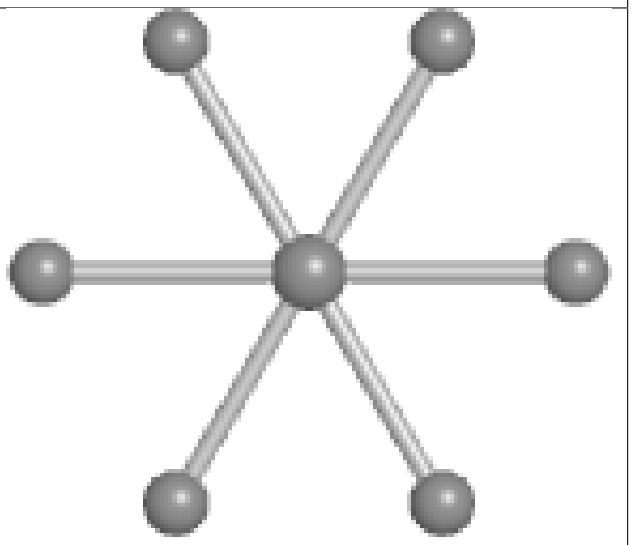


Rings

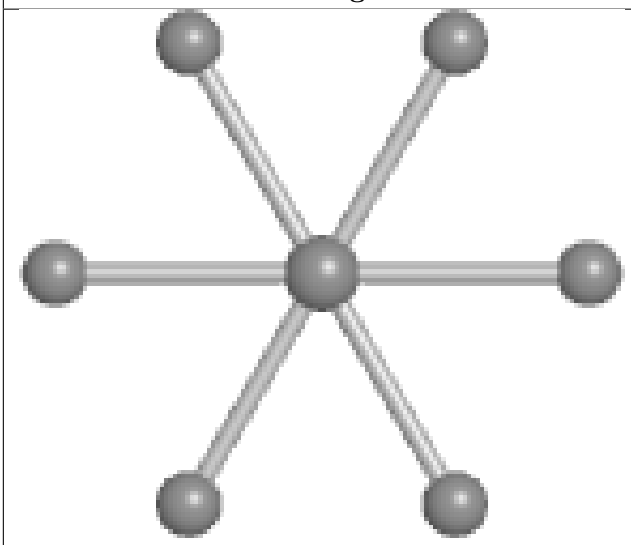
Ligand OHX C1 1996



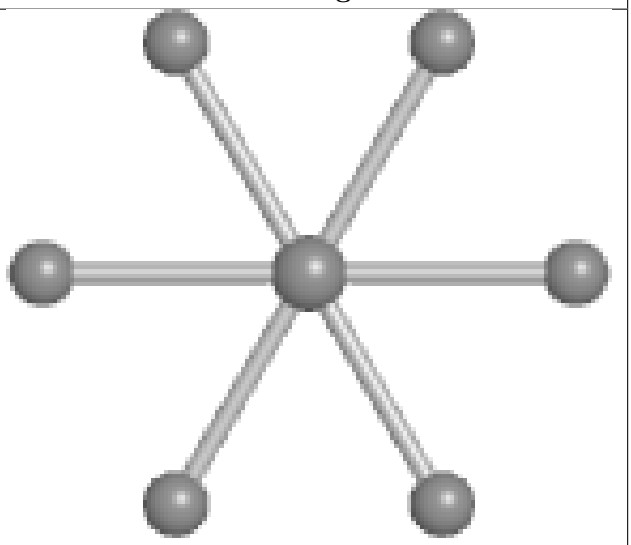
Bond lengths



Bond angles

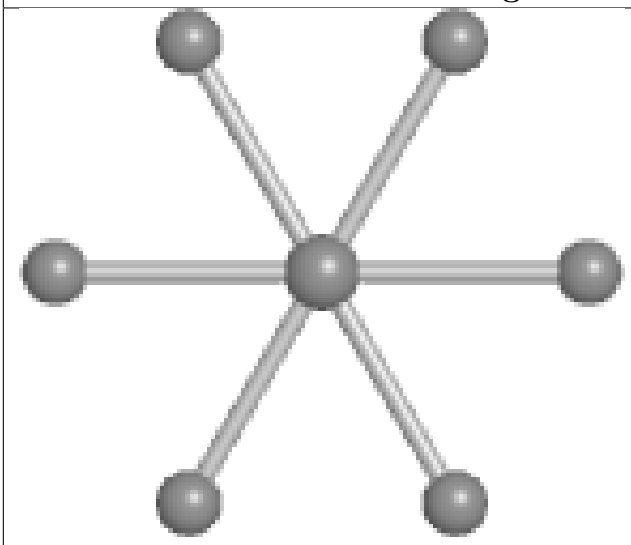


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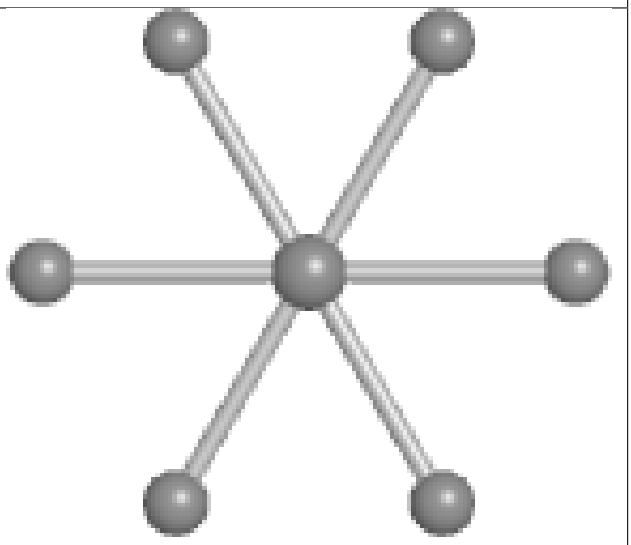


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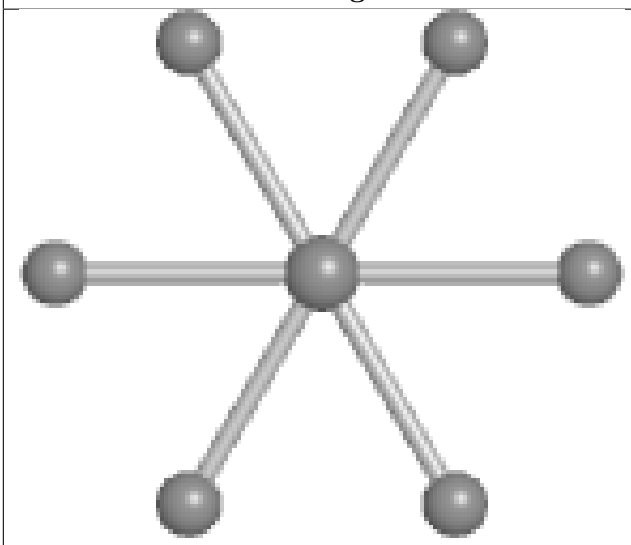
Ligand OHX C1 1989



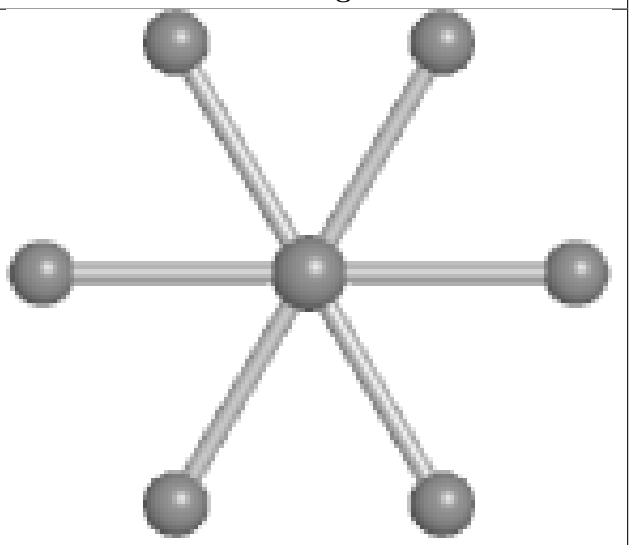
Bond lengths



Bond angles

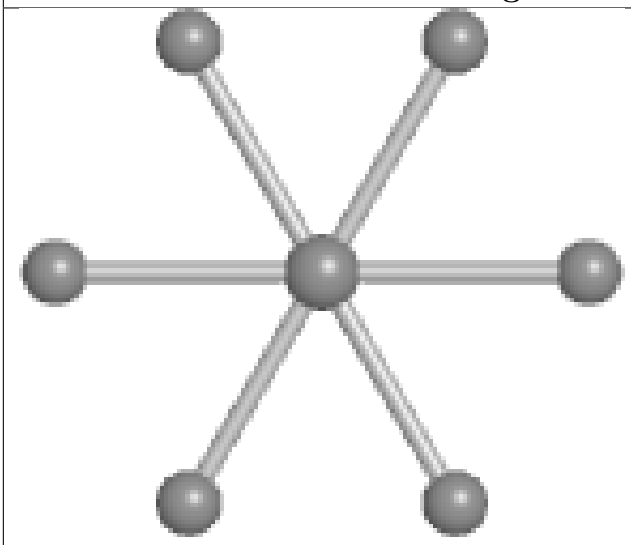


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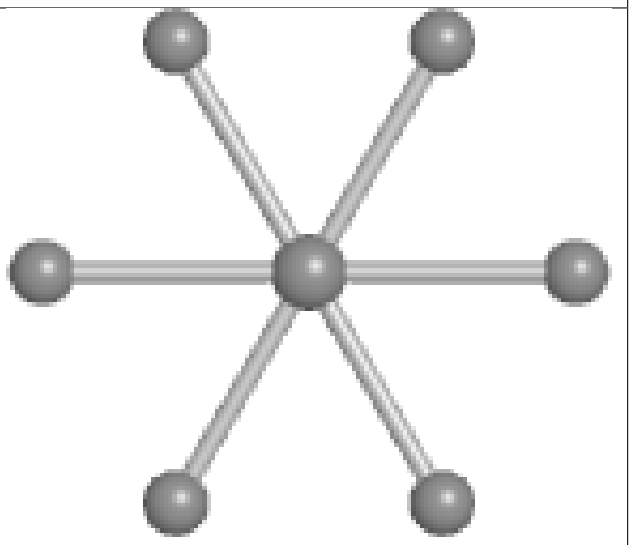


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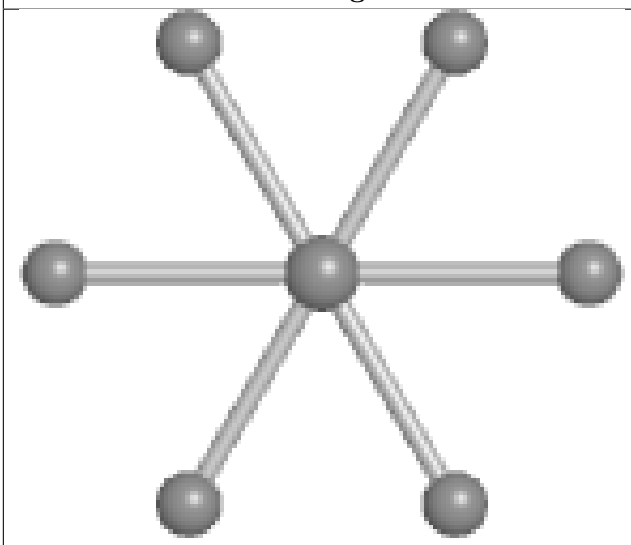
Ligand OHX B1 3555



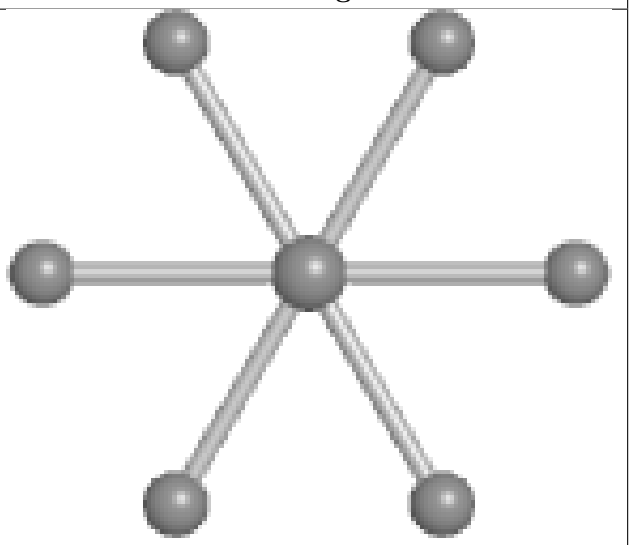
Bond lengths



Bond angles

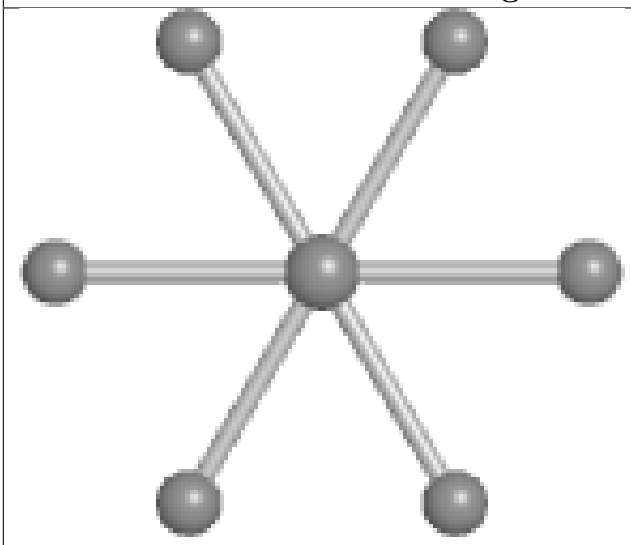


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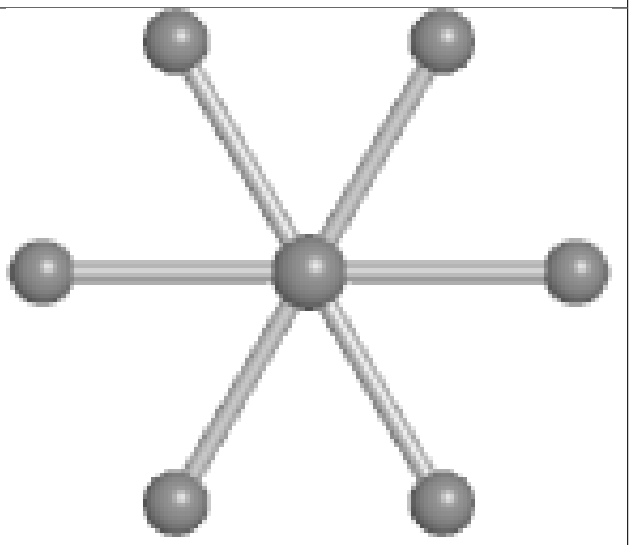


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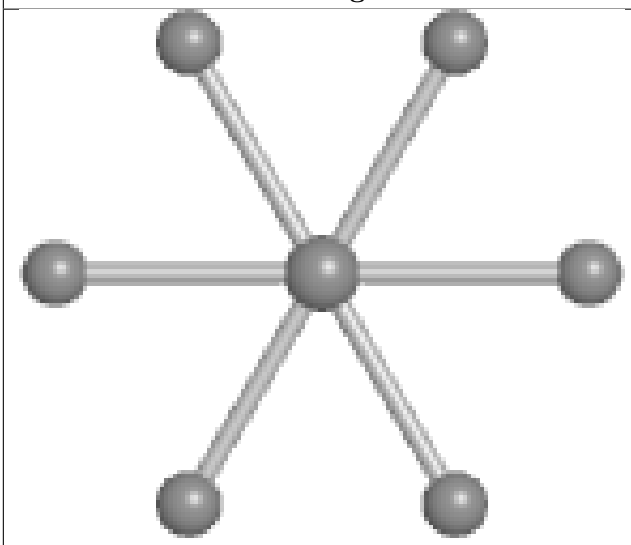
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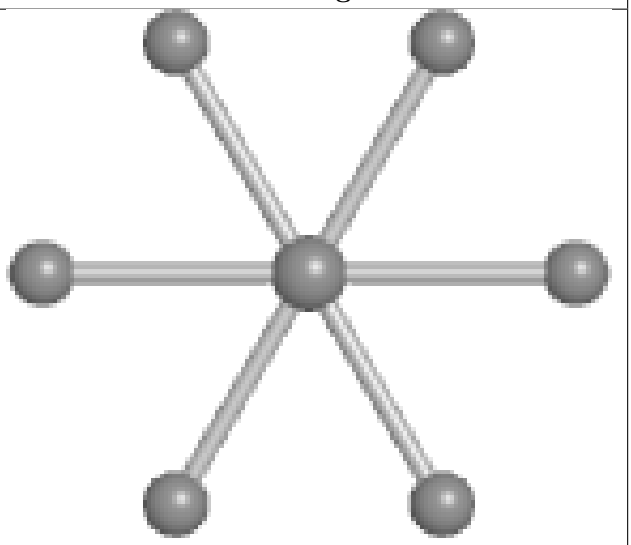
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Bond angles

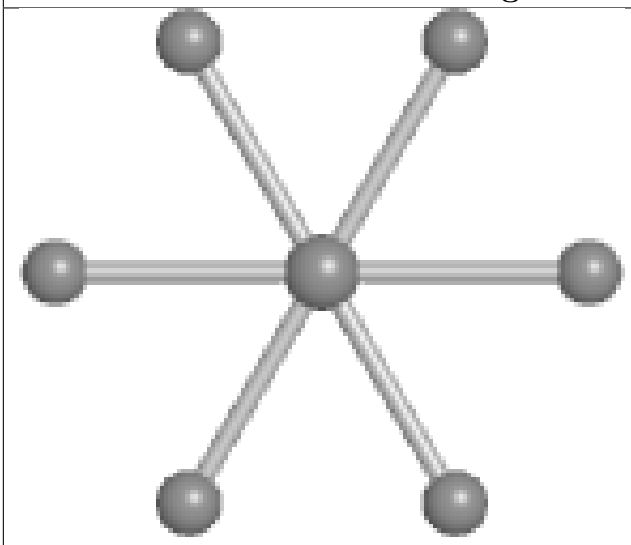


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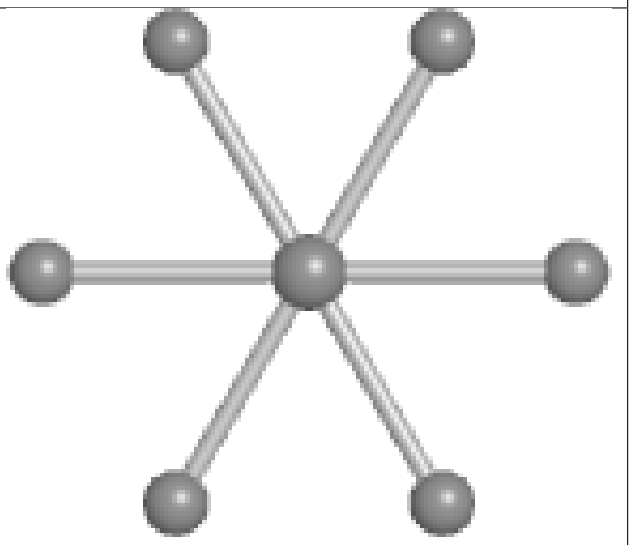


Rings

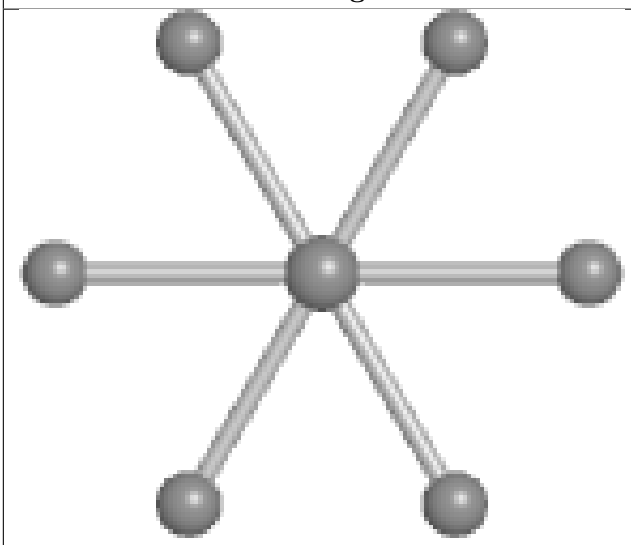
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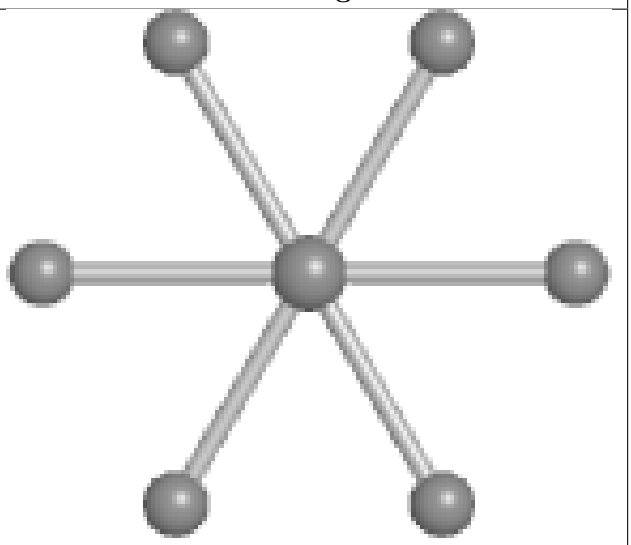
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Bond angles

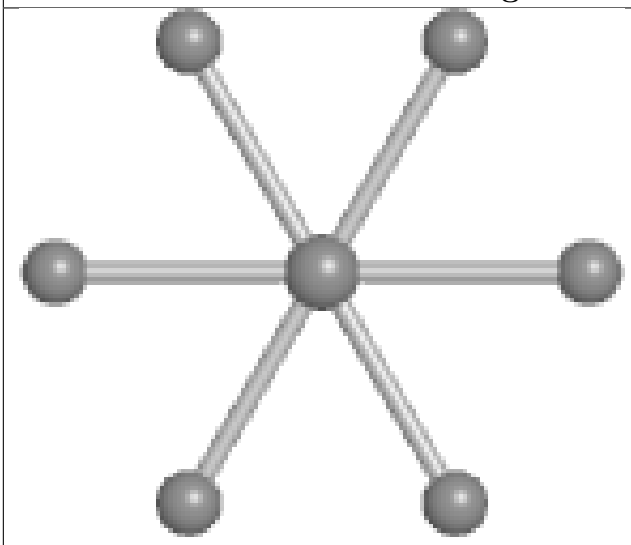


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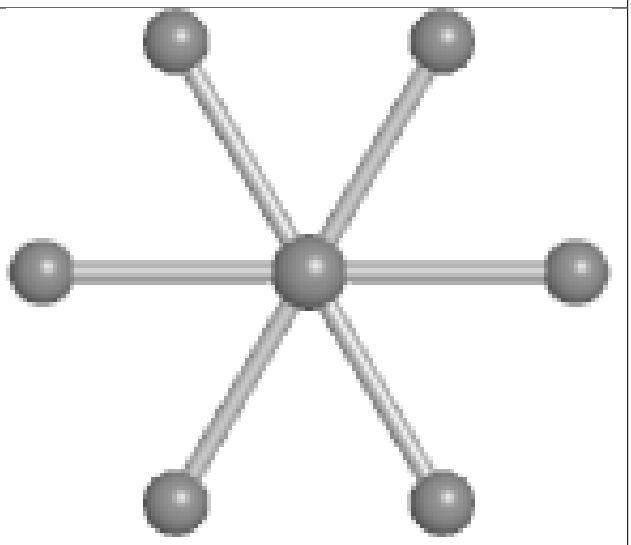


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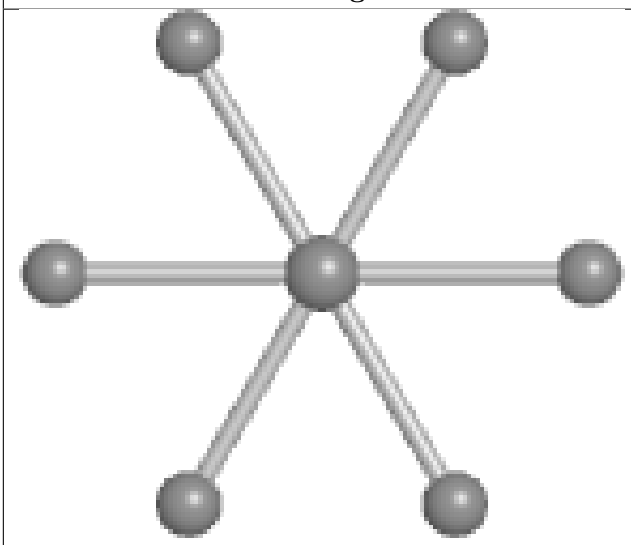
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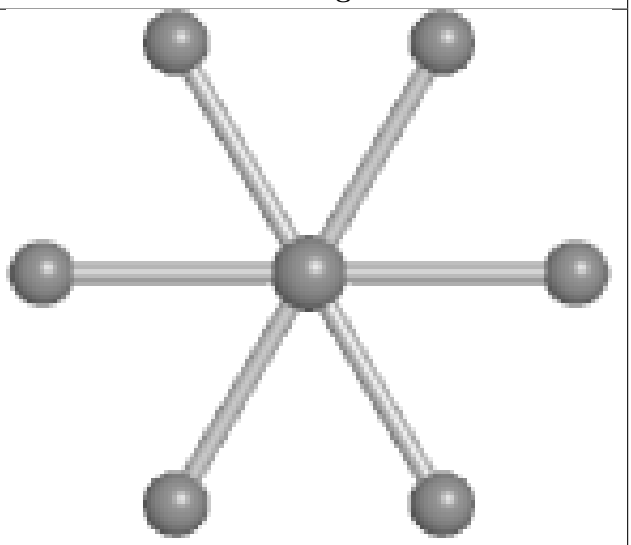
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Bond angles

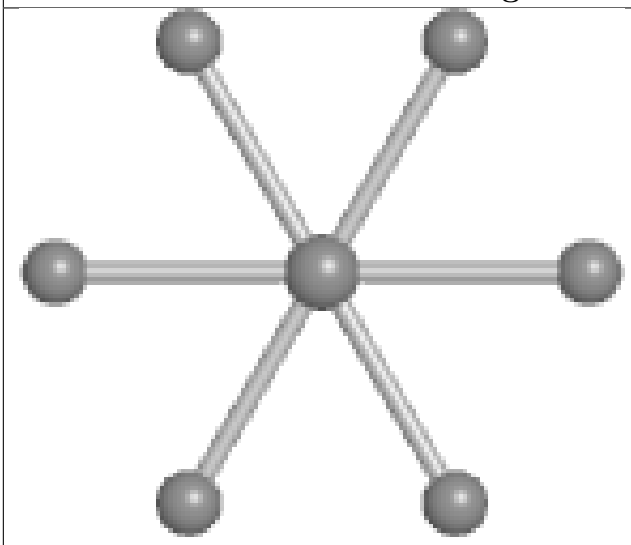


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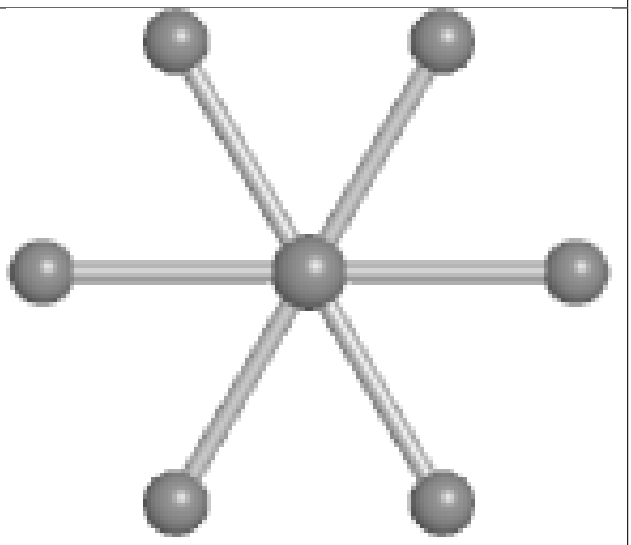


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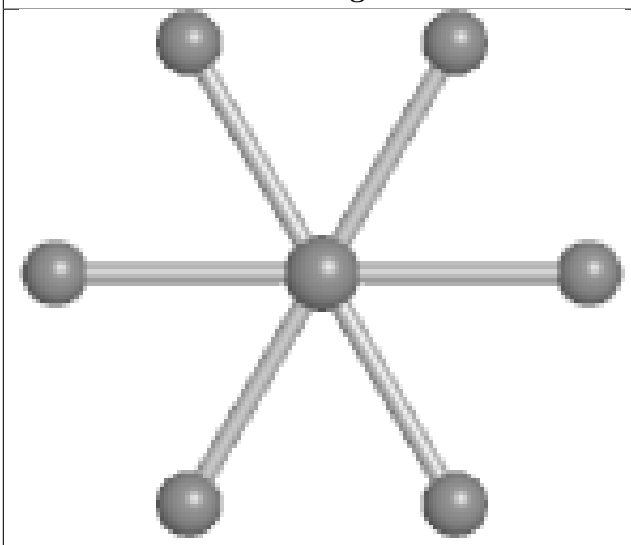
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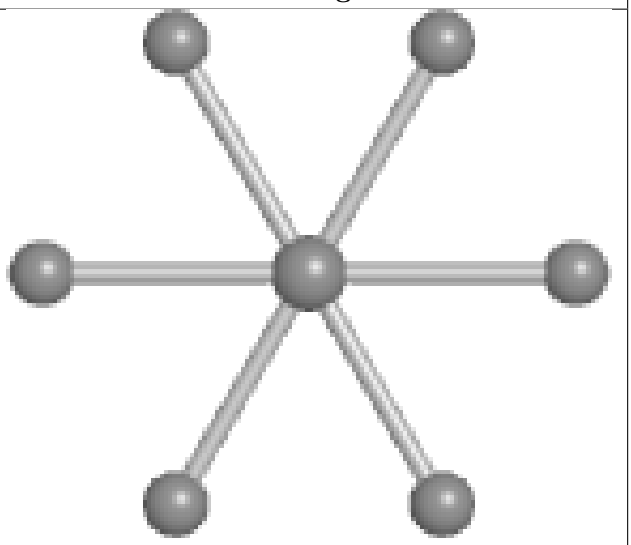
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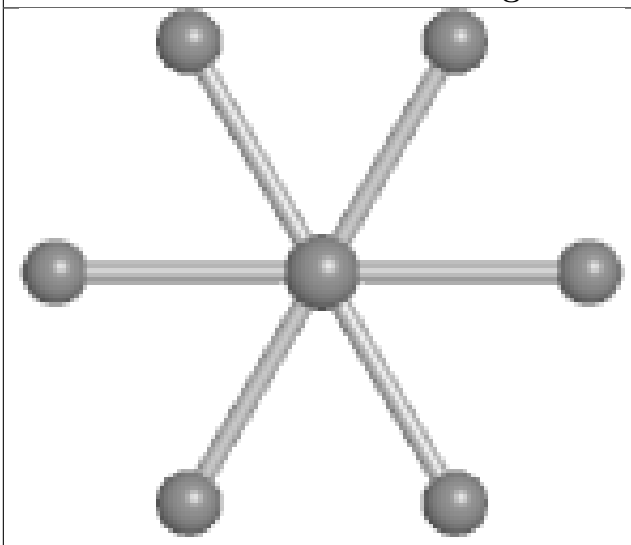


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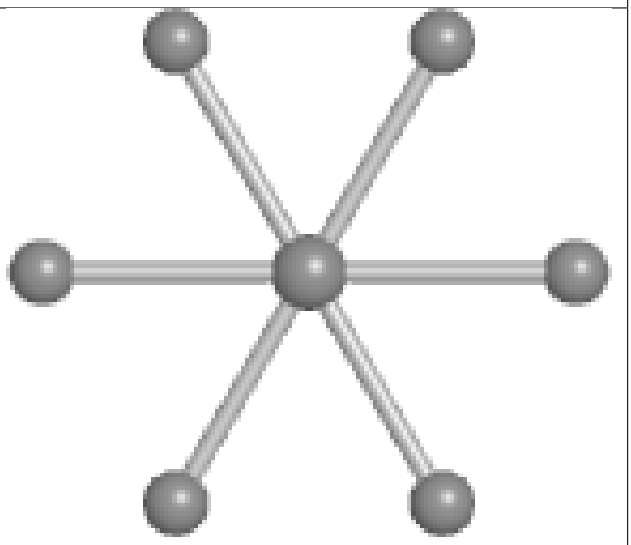


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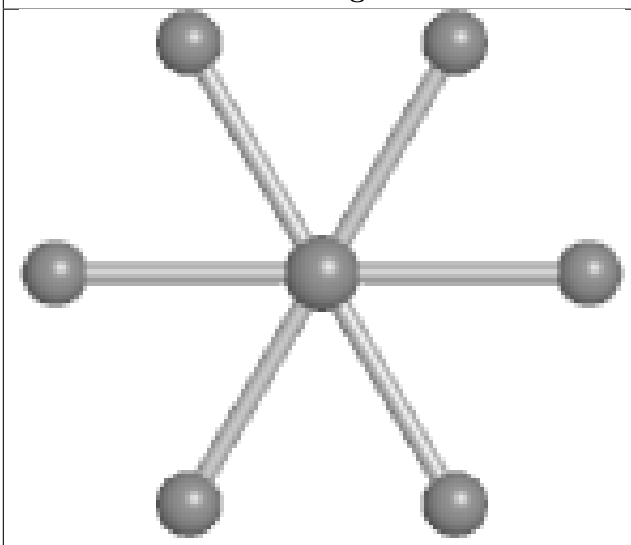
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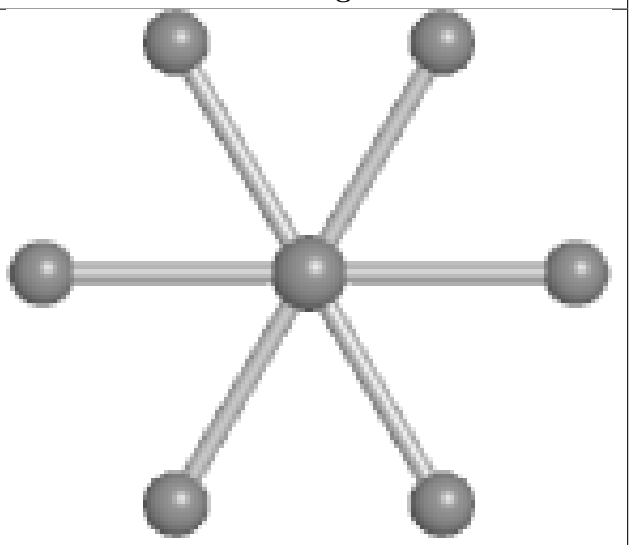
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Bond angles

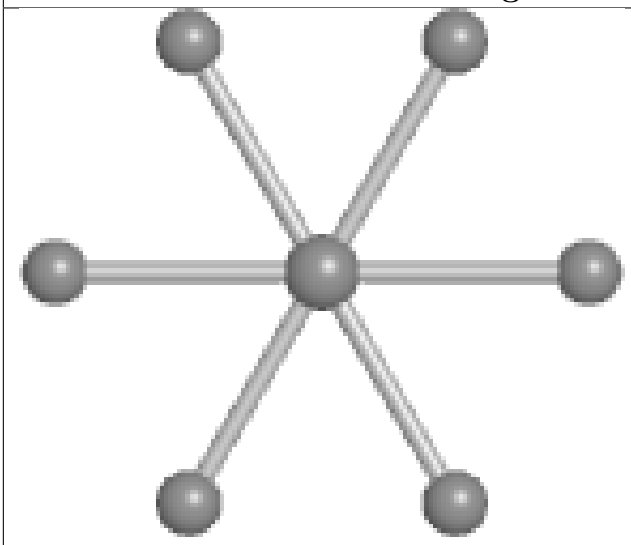


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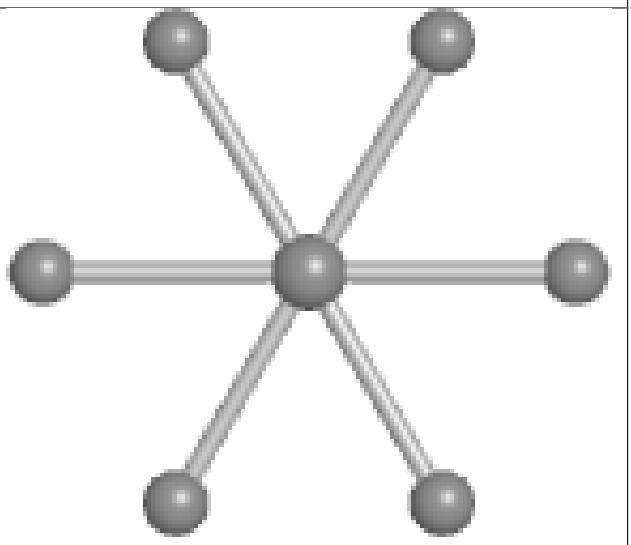


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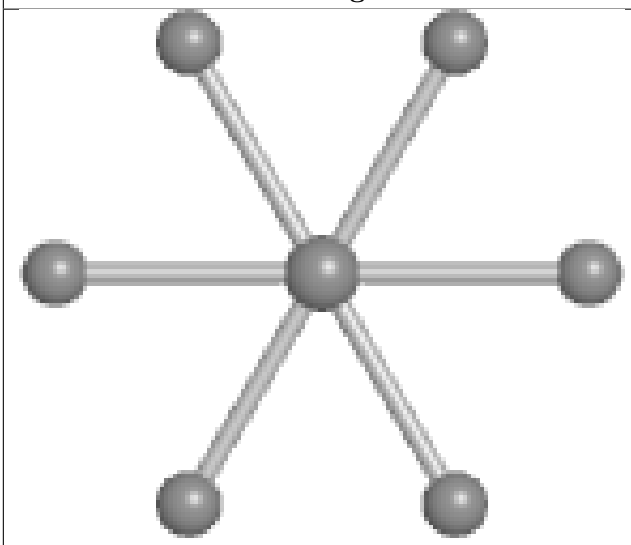
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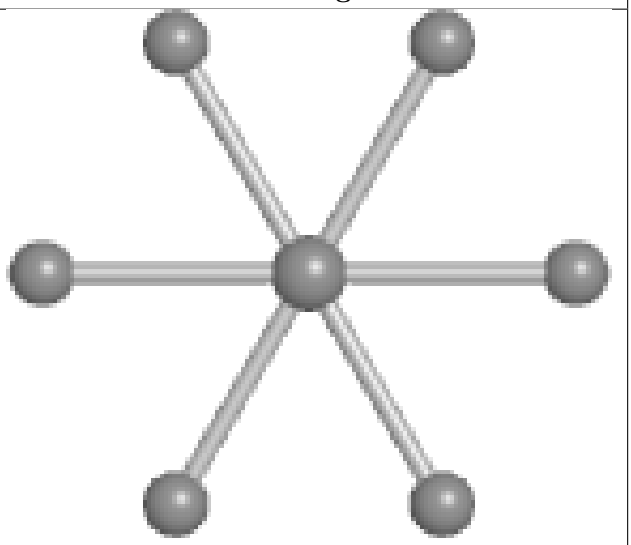
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Bond angles

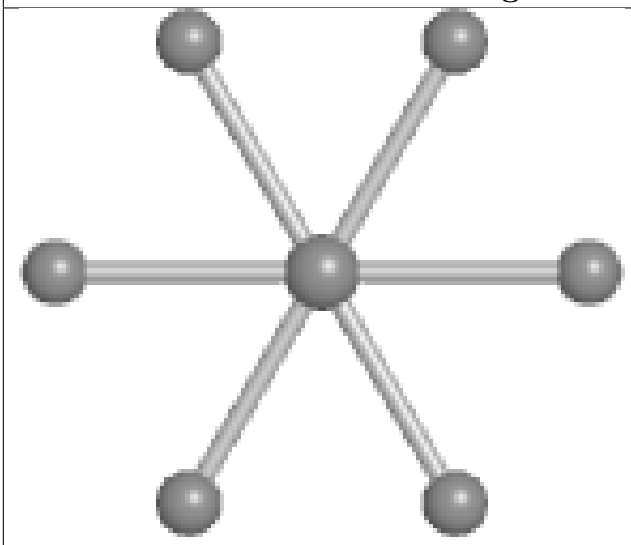


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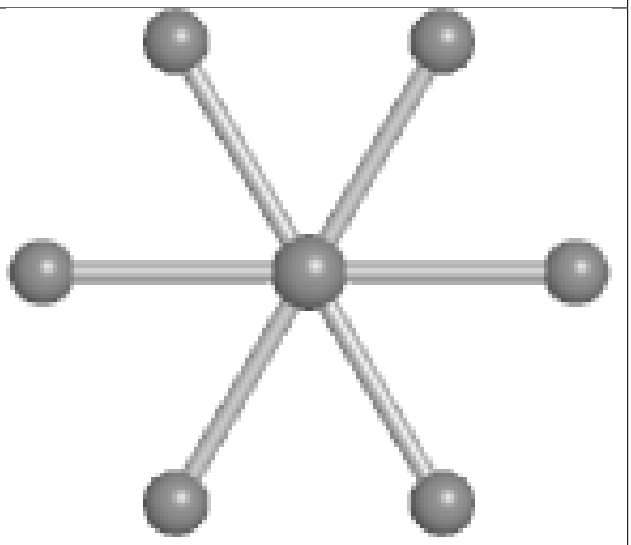


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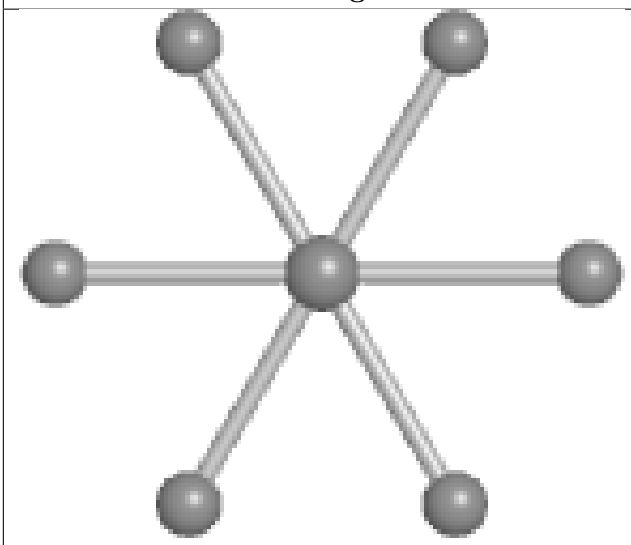
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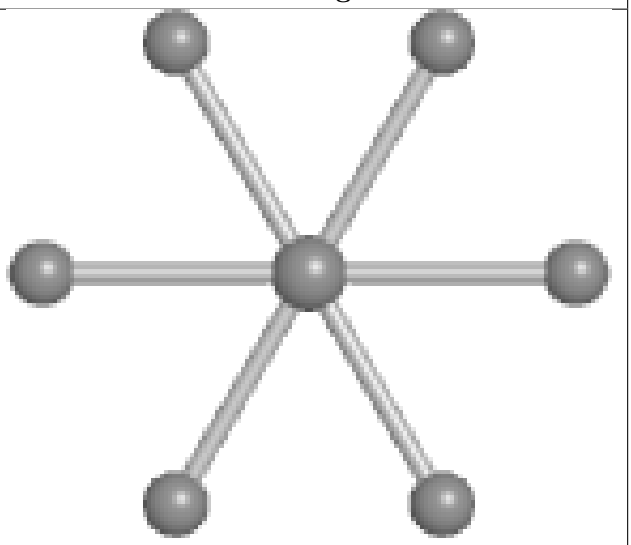
Bond lengths



Bond angles

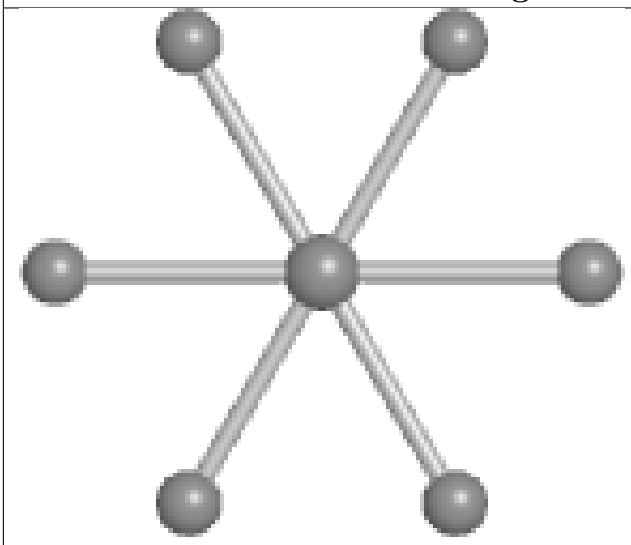


Torsions

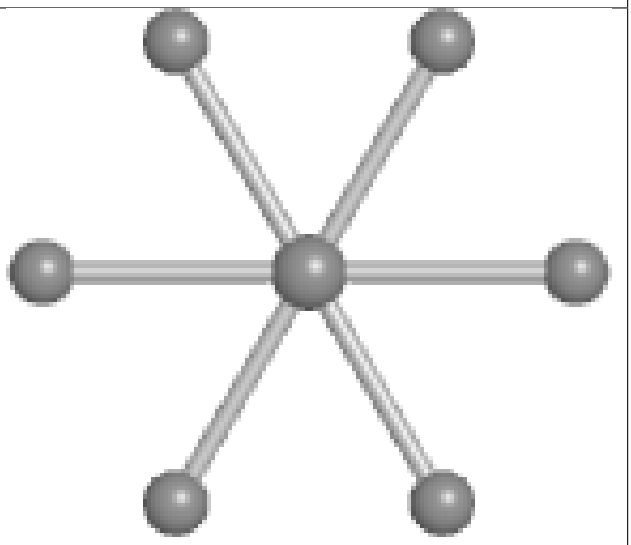


Rings

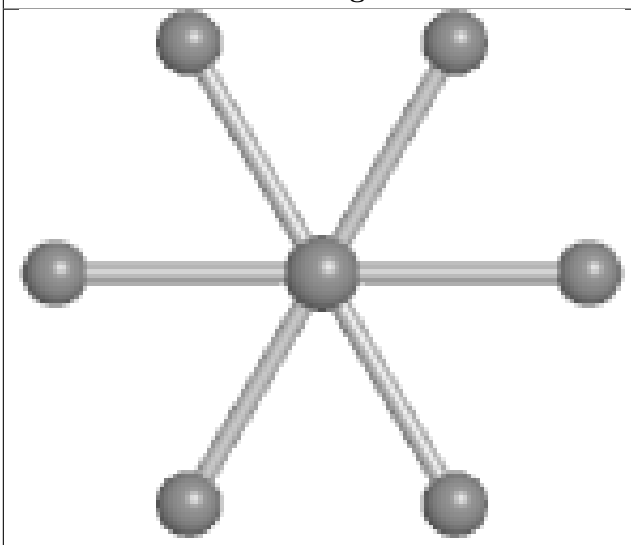
Ligand OHX B2 210



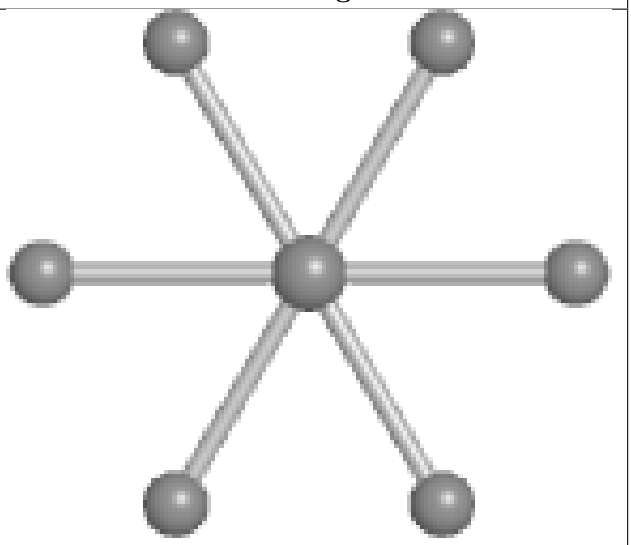
Bond lengths



Bond angles

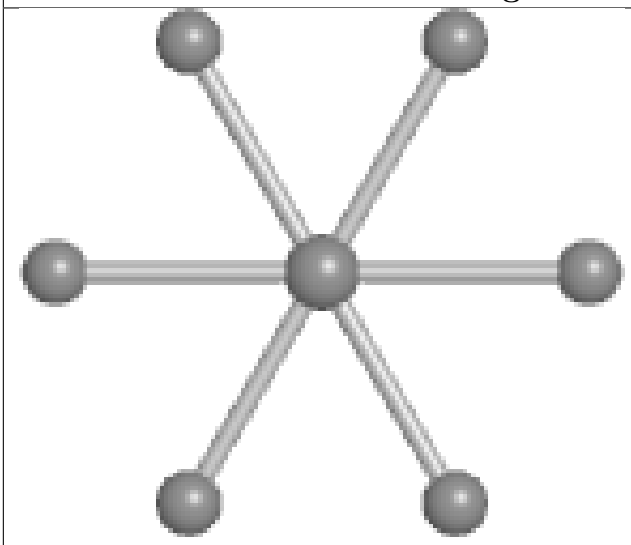


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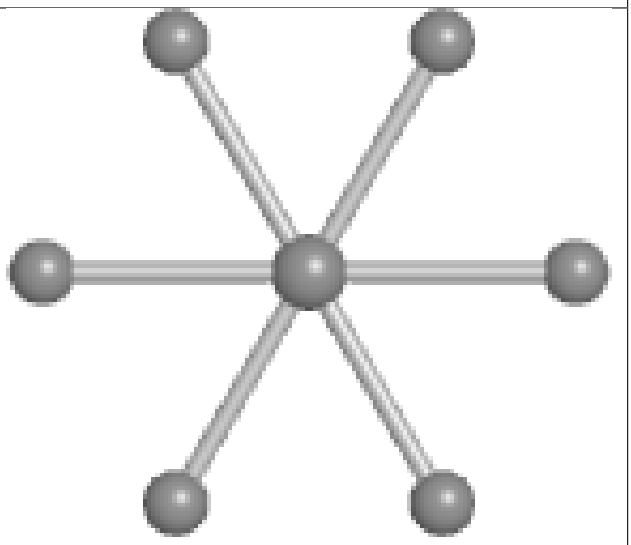


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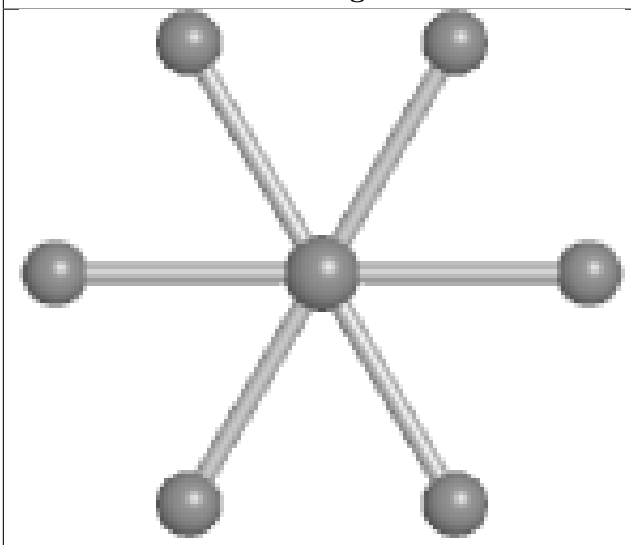
Ligand OHX B1 3609



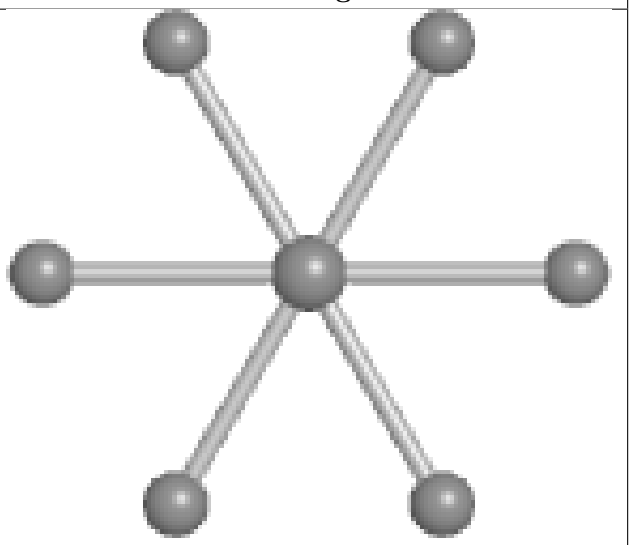
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Bond angles

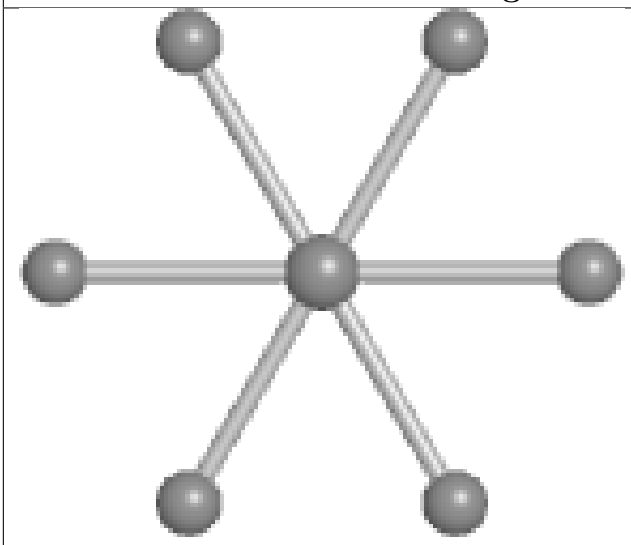


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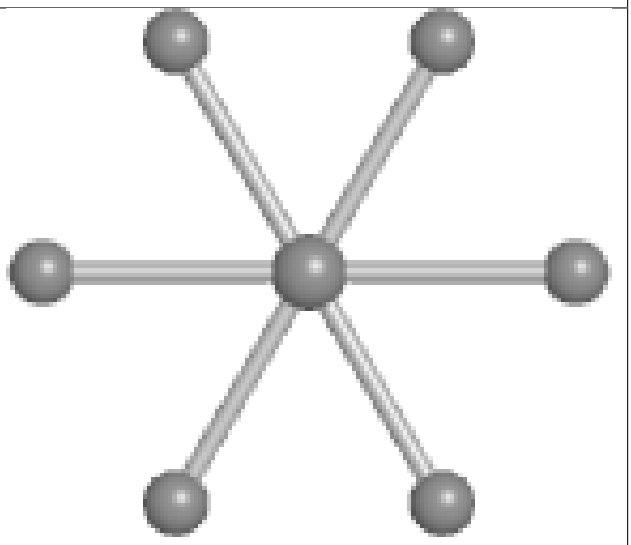


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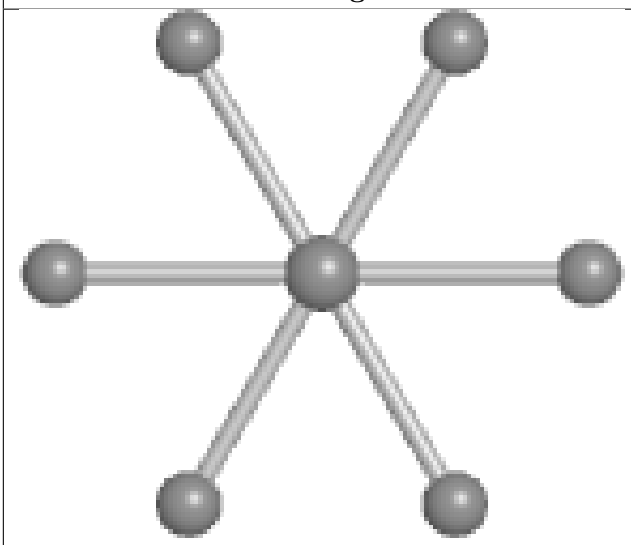
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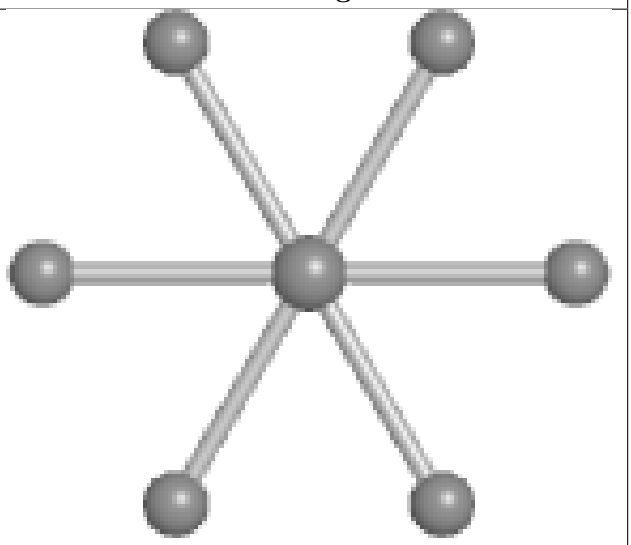
Bond lengths



Bond angles

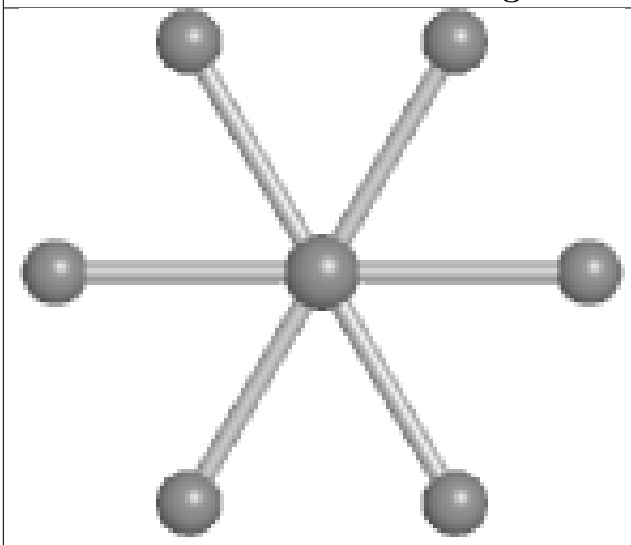


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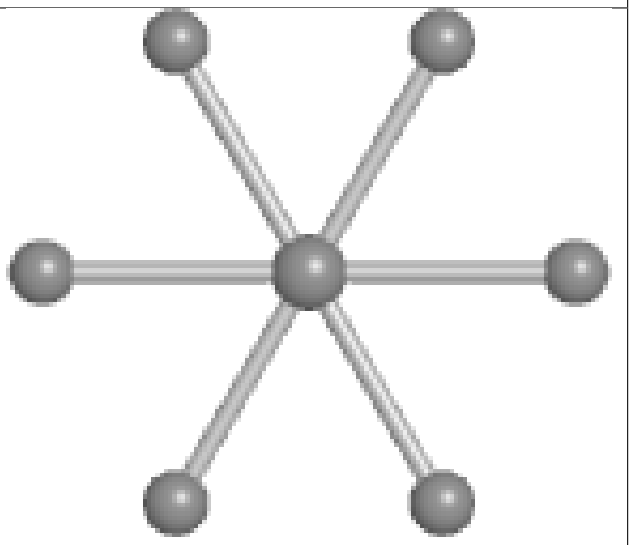


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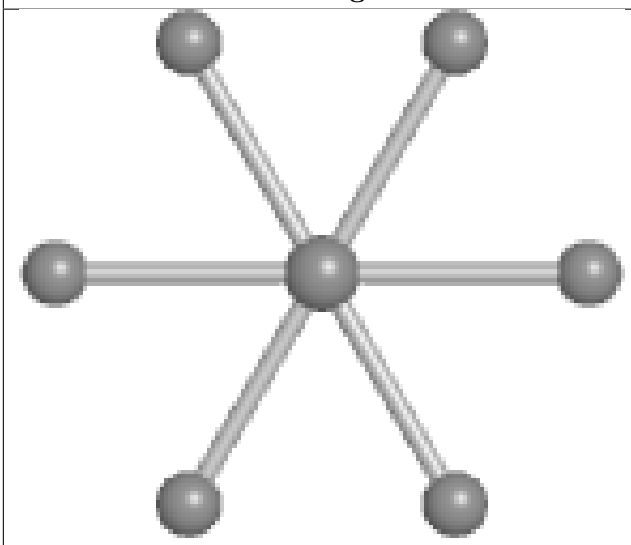
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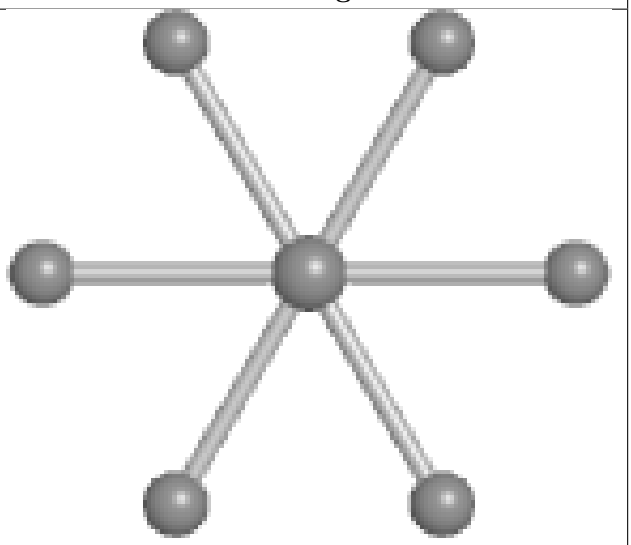
Bond lengths



Bond angles

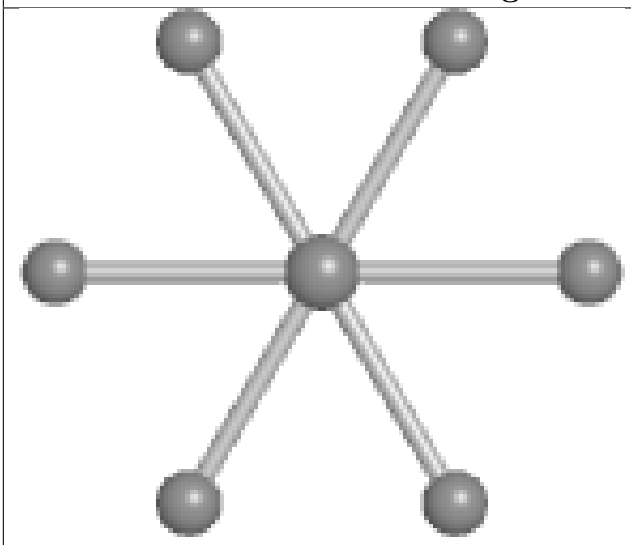


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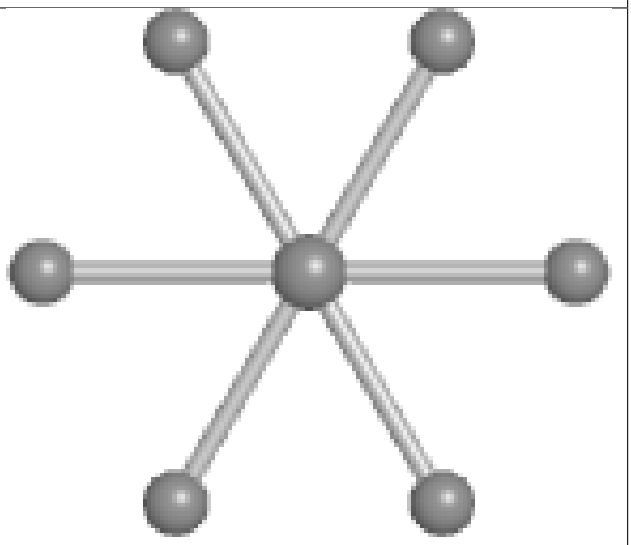


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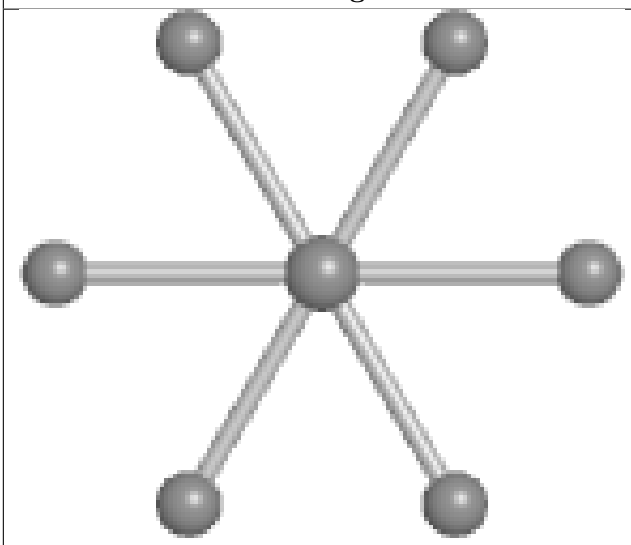
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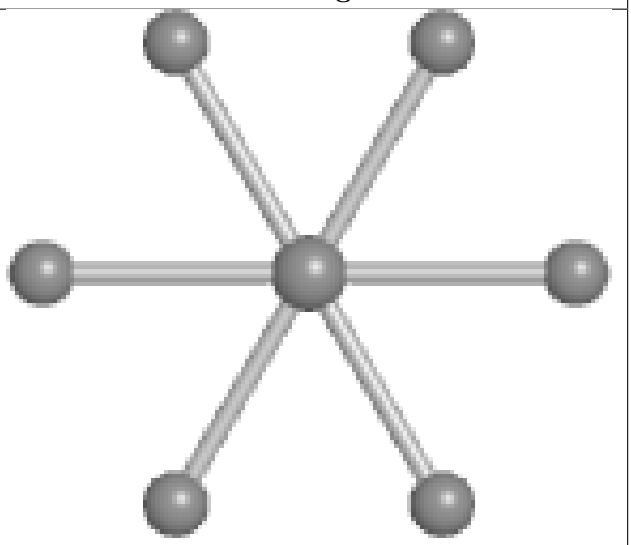
Bond lengths



Bond angles

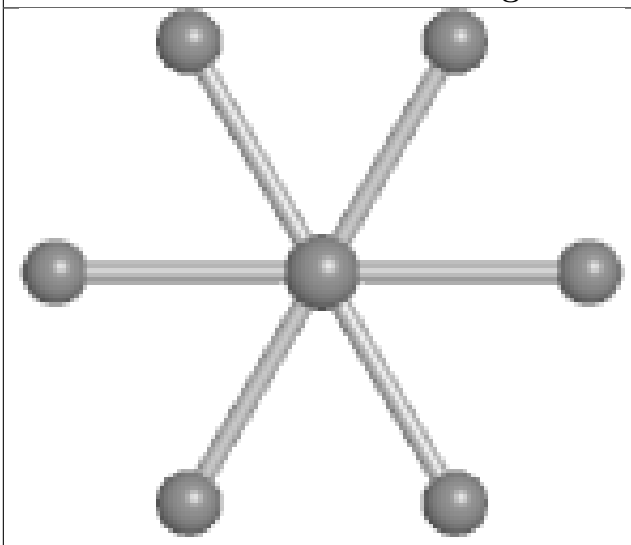


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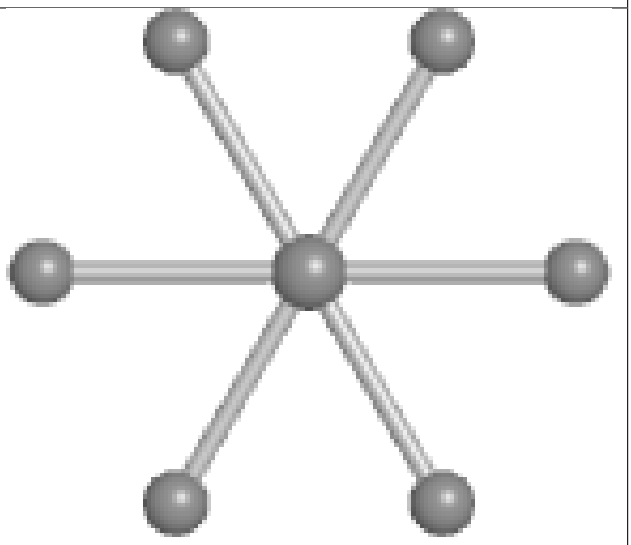


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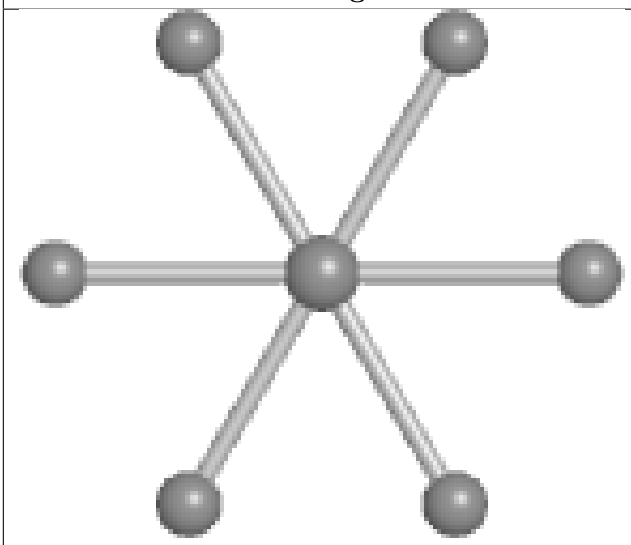
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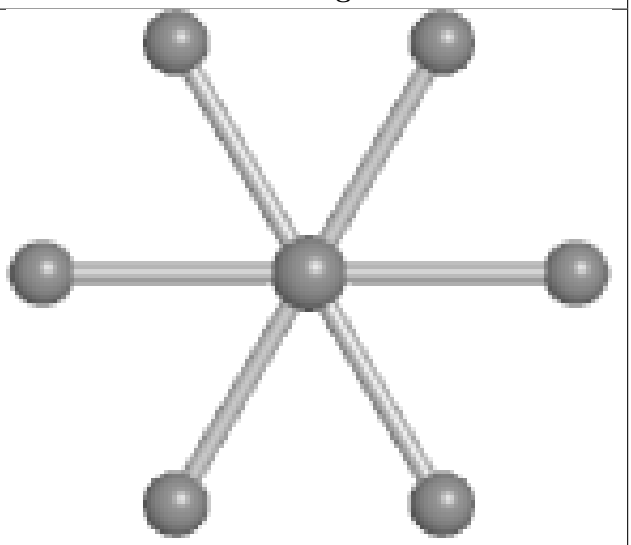
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Bond angles

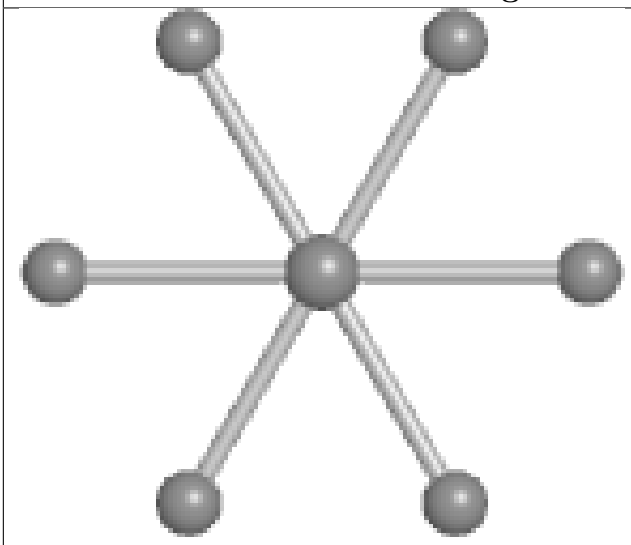


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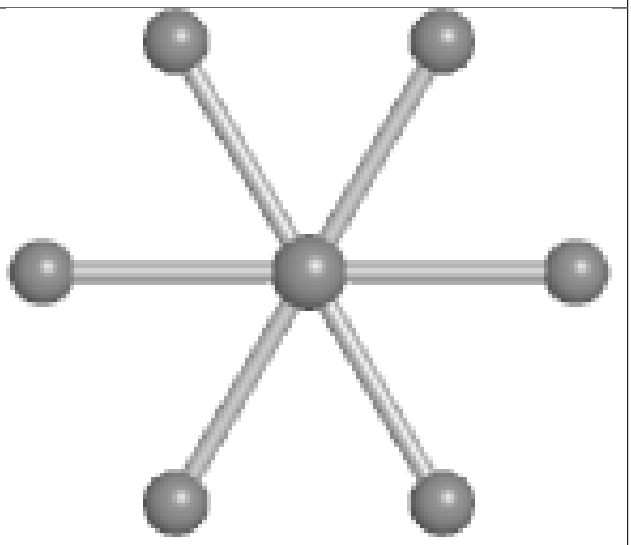


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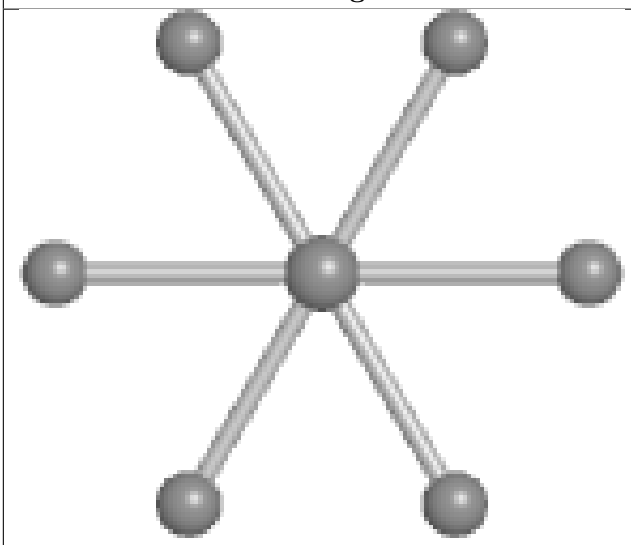
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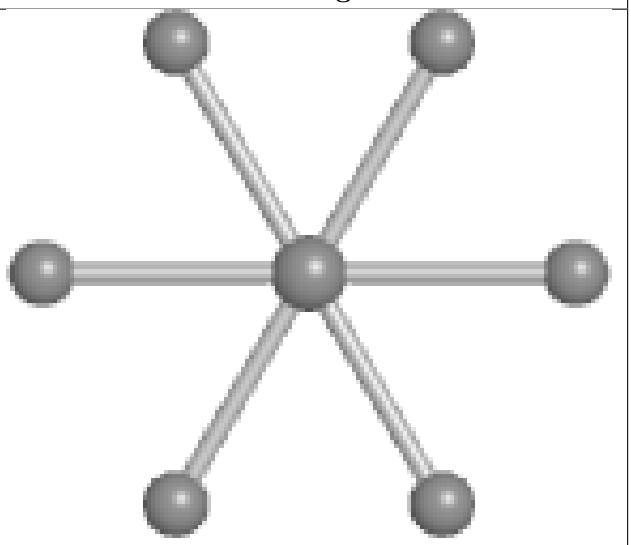
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Bond angles

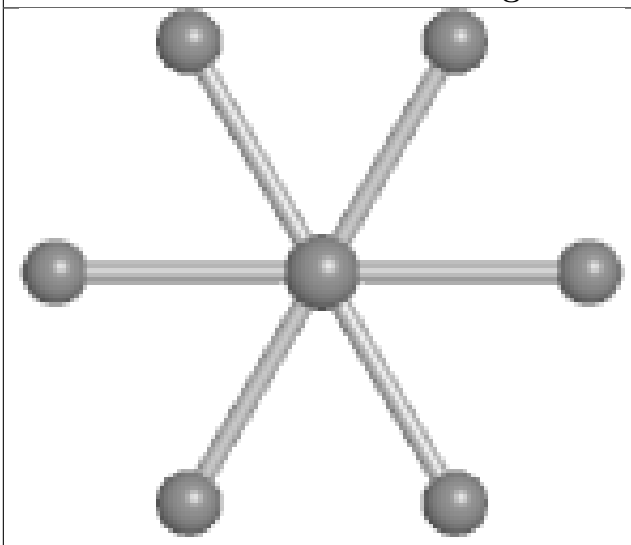


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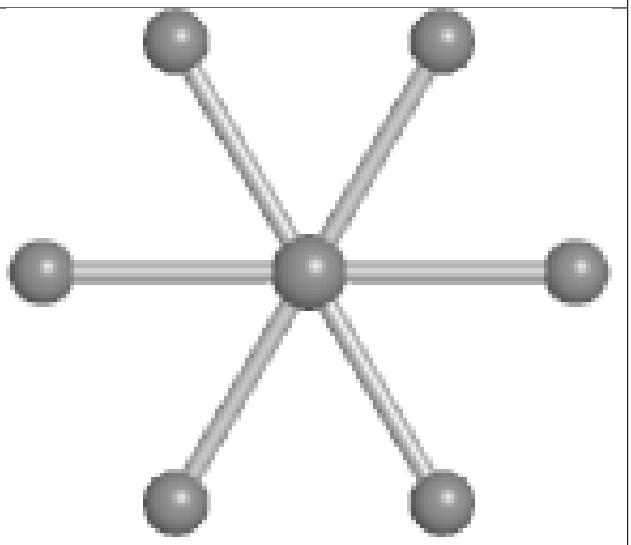


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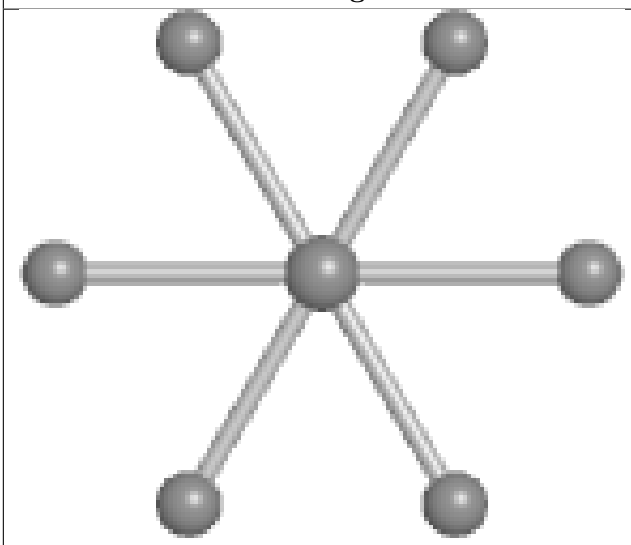
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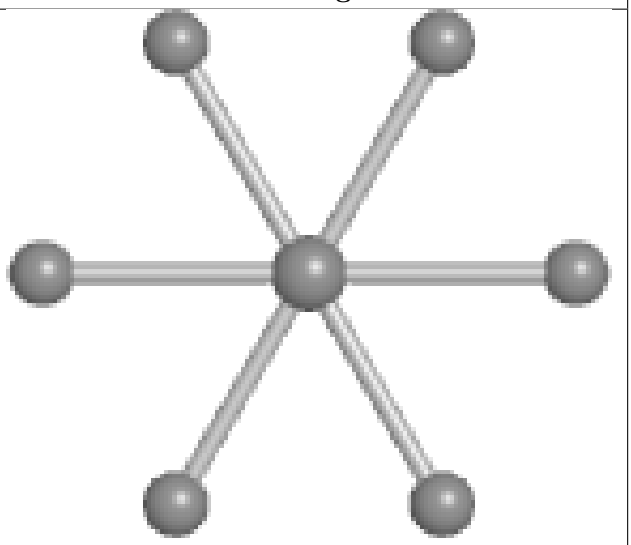
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Bond angles

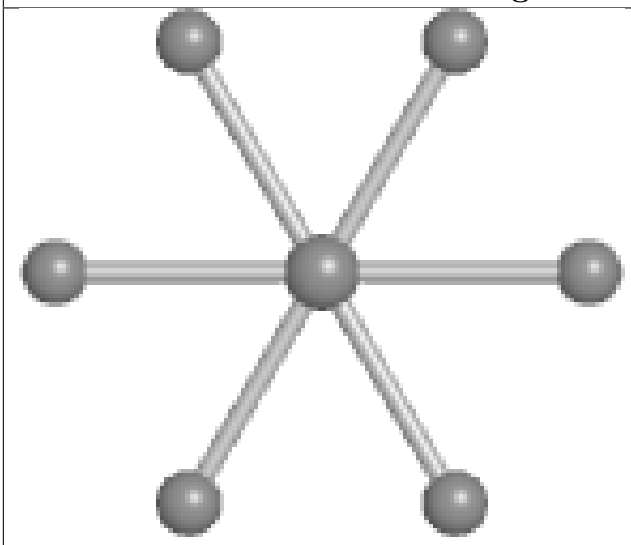


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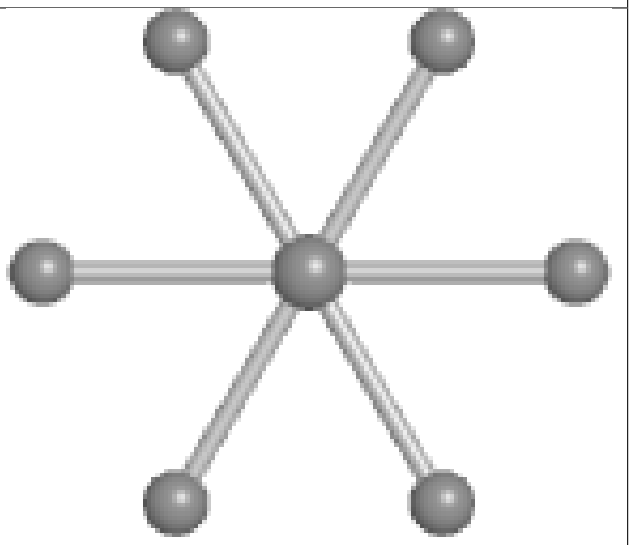


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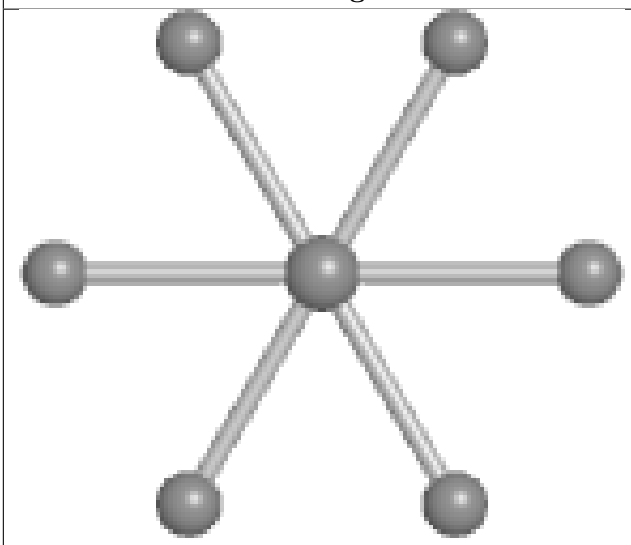
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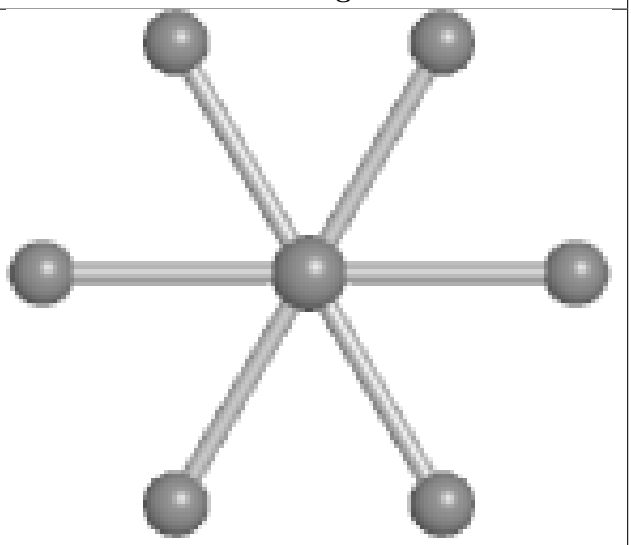
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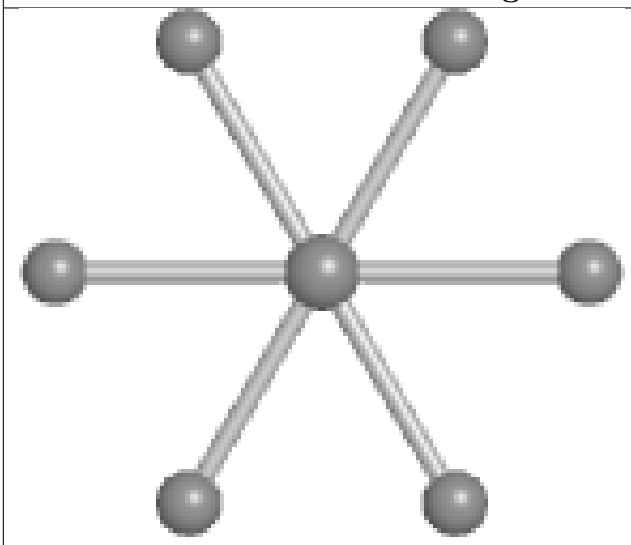


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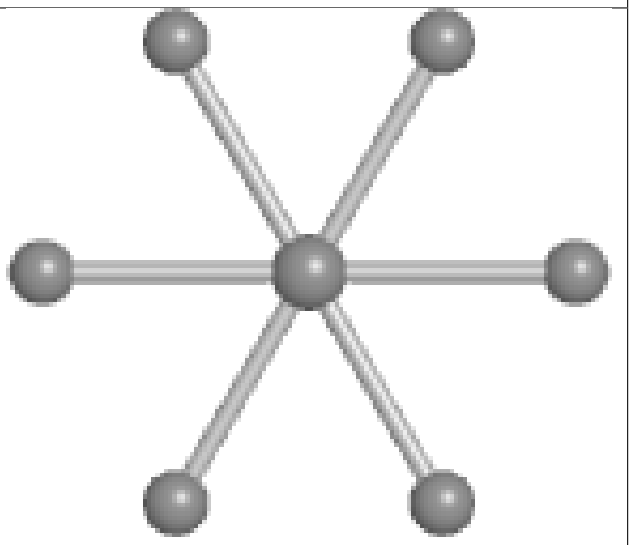


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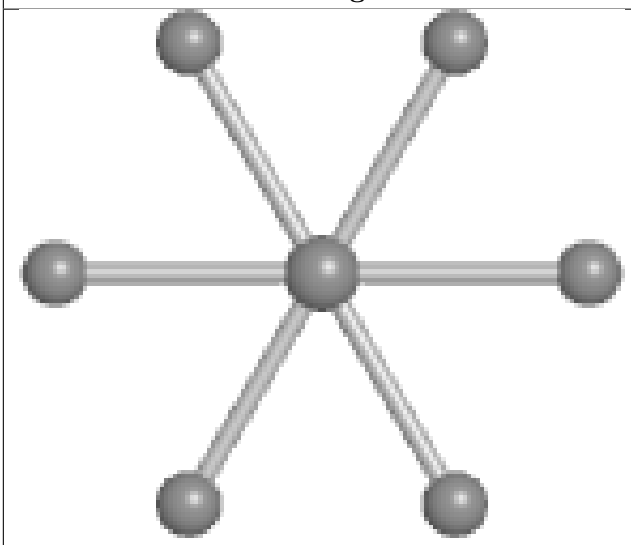
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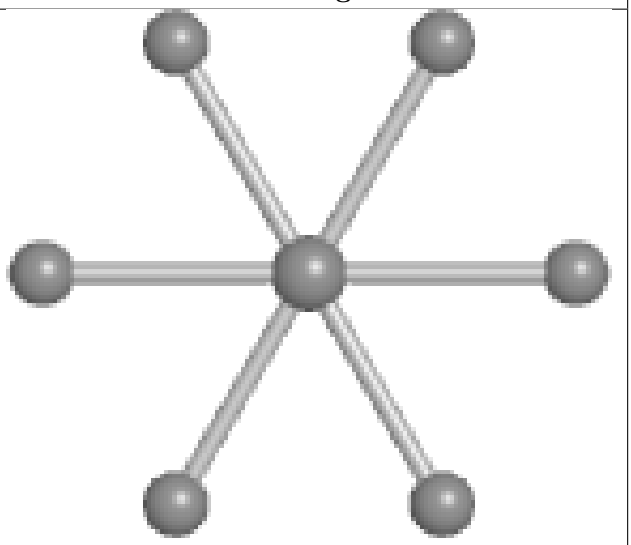
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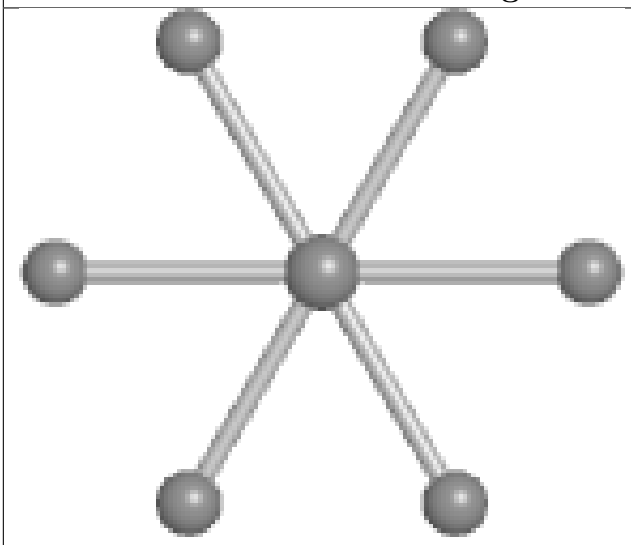


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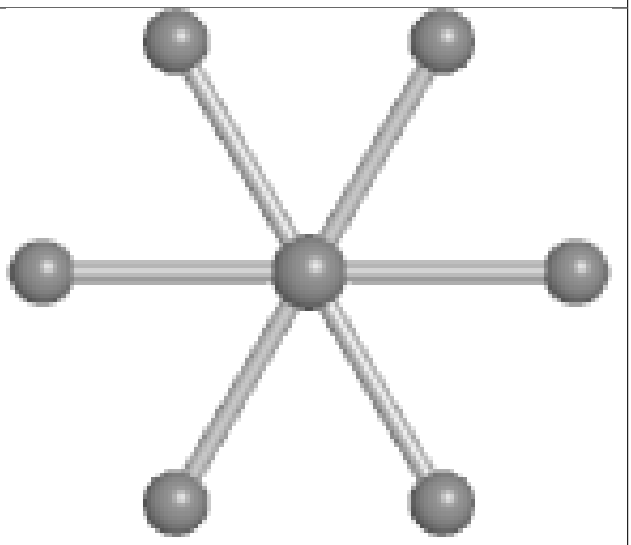


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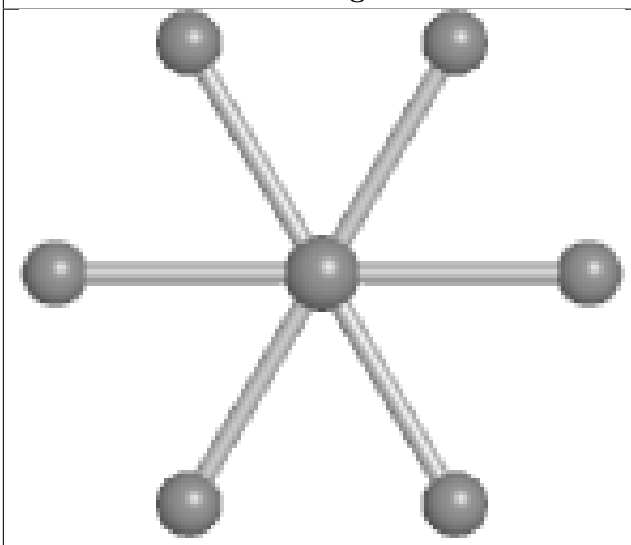
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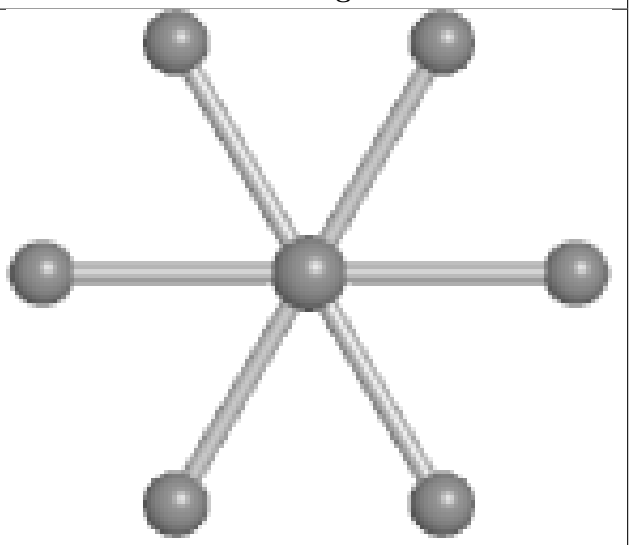
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Bond angles

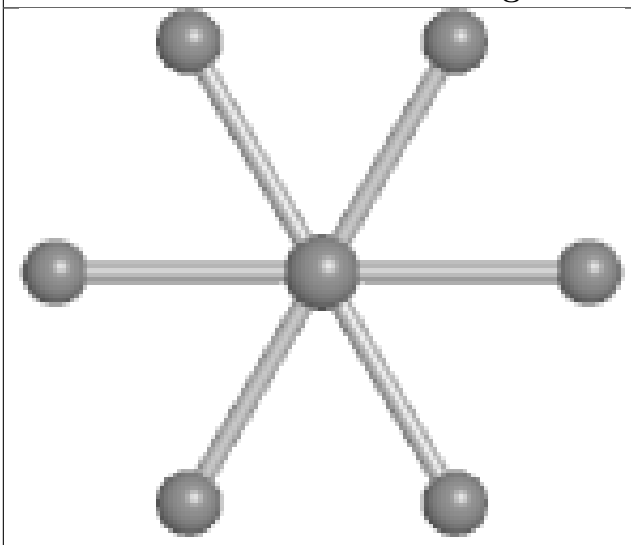


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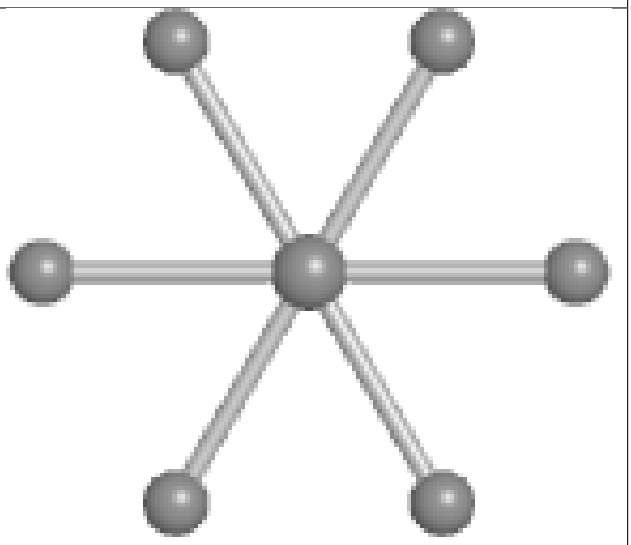


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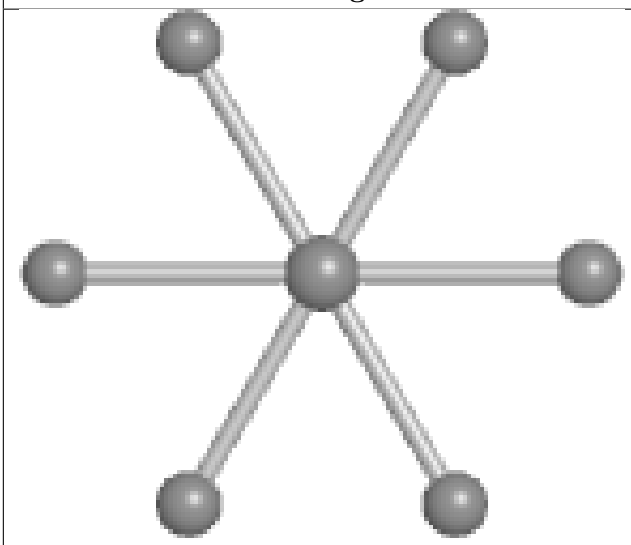
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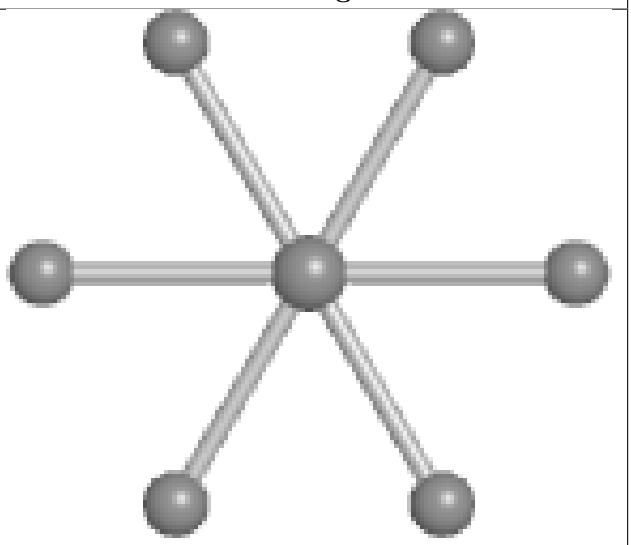
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Bond angles

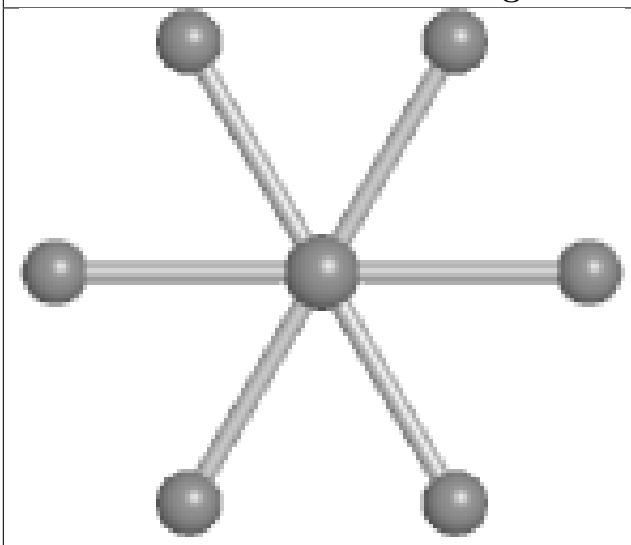


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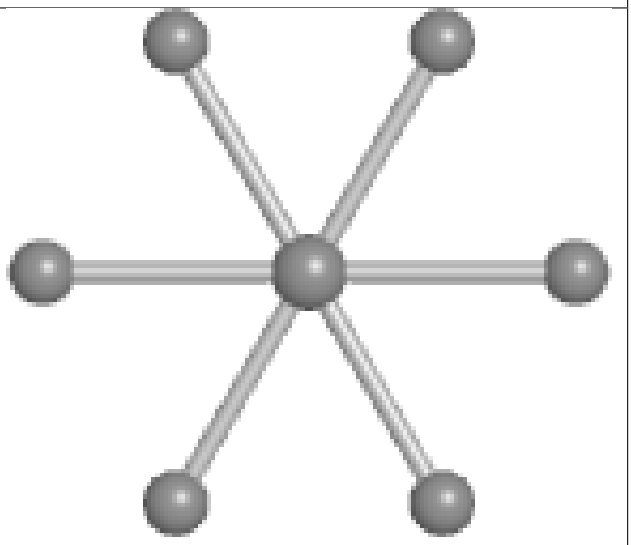


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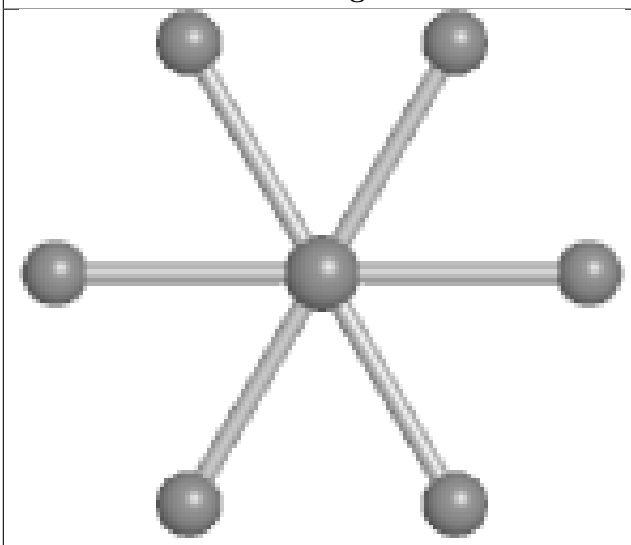
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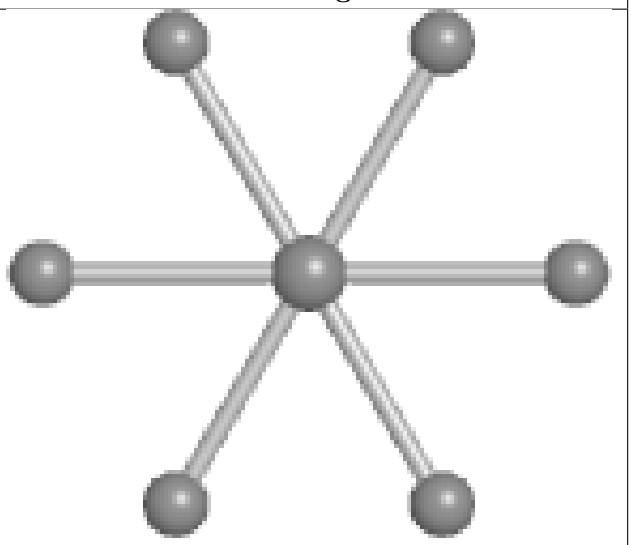
Bond lengths



Bond angles

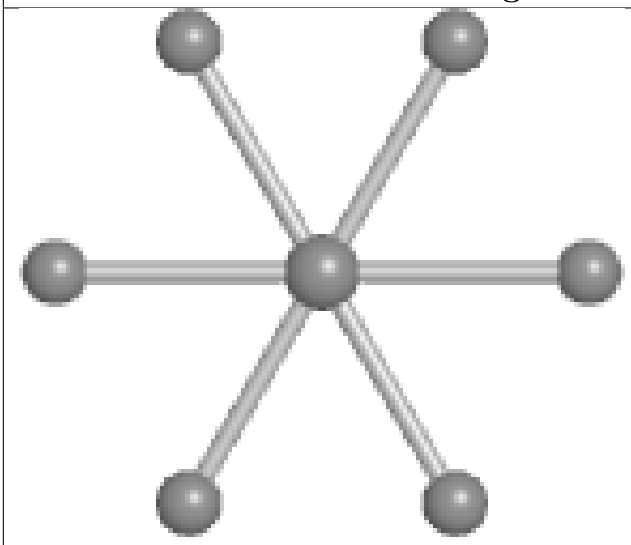


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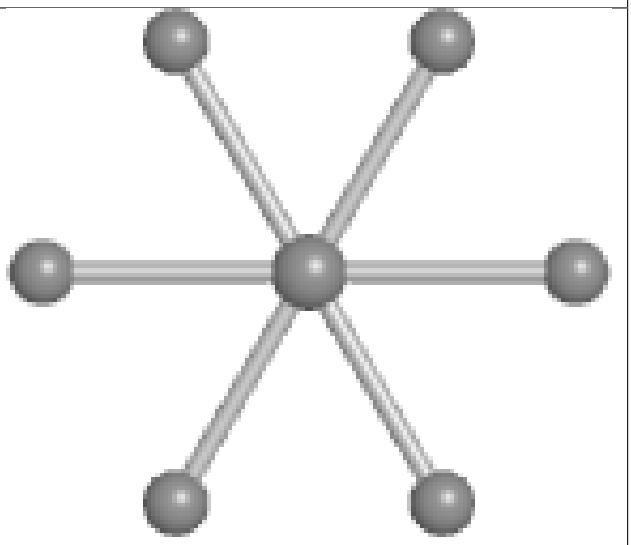


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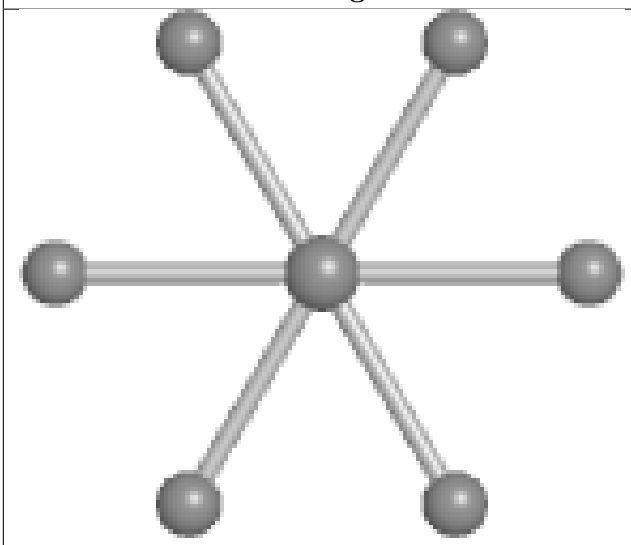
Ligand OHX C1 1988



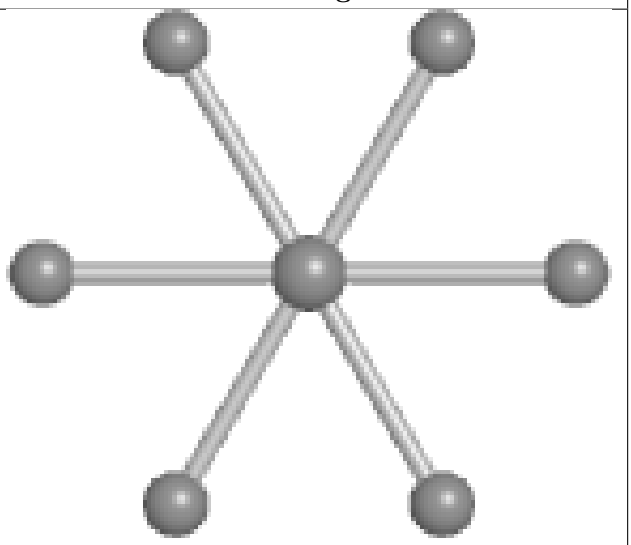
Bond lengths



Bond angles

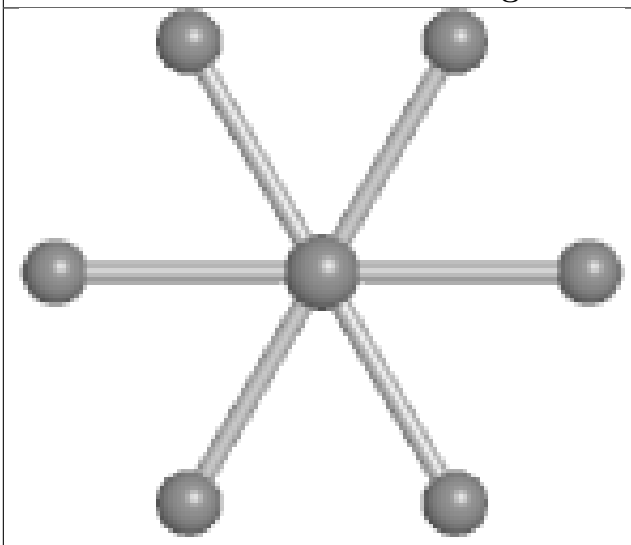


Torsions

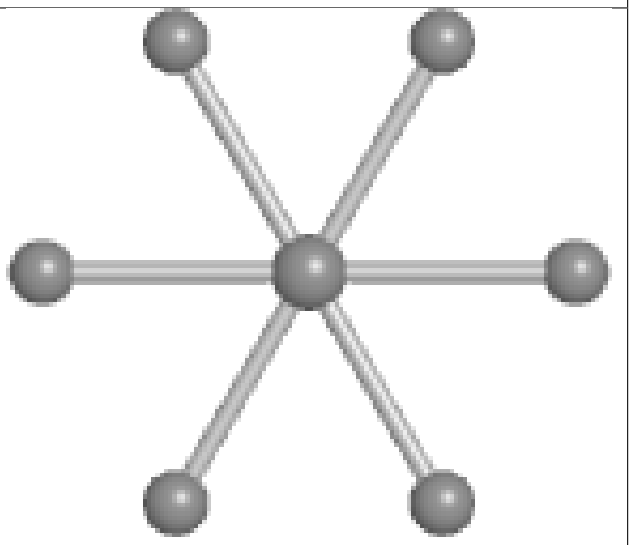


Rings

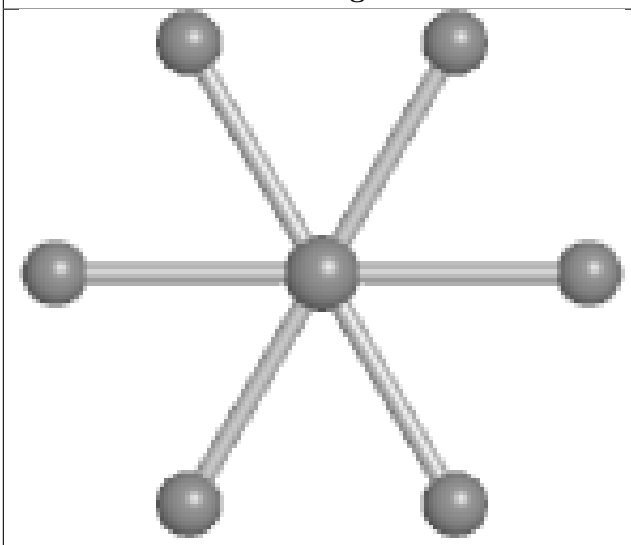
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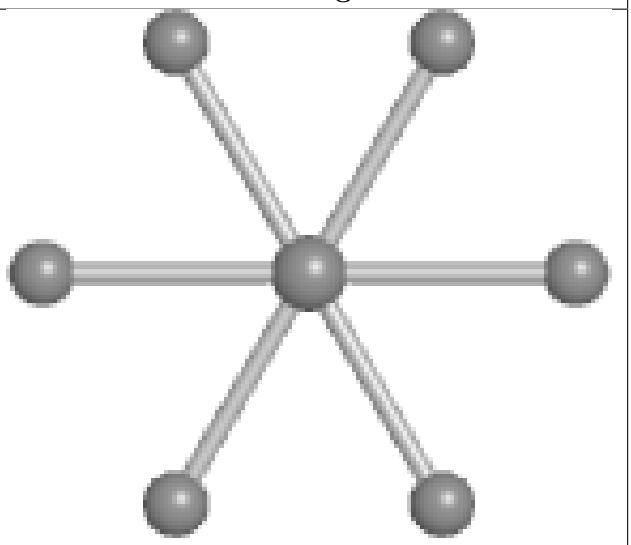
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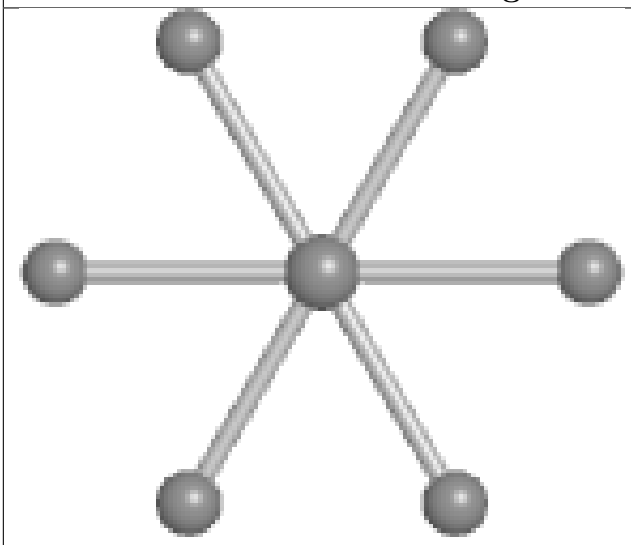


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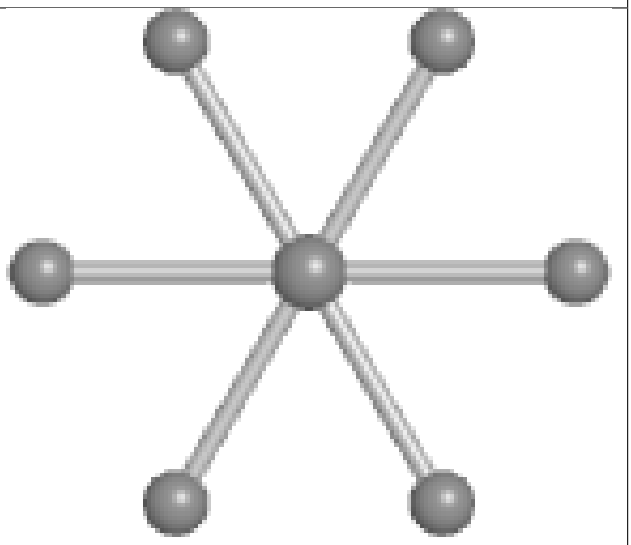


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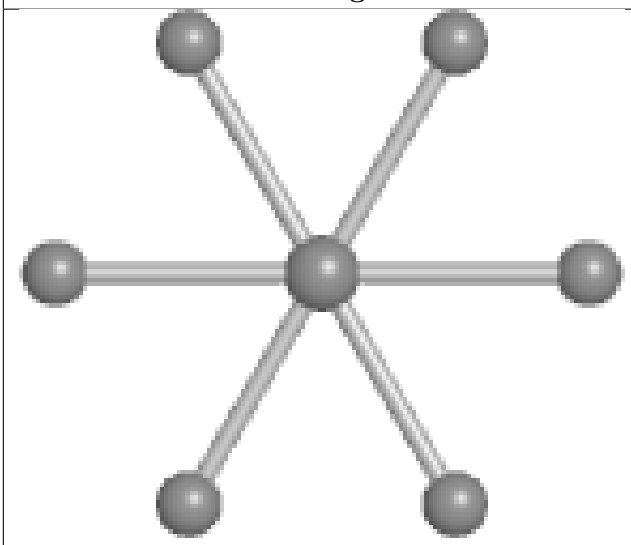
Ligand OHX C1 1976



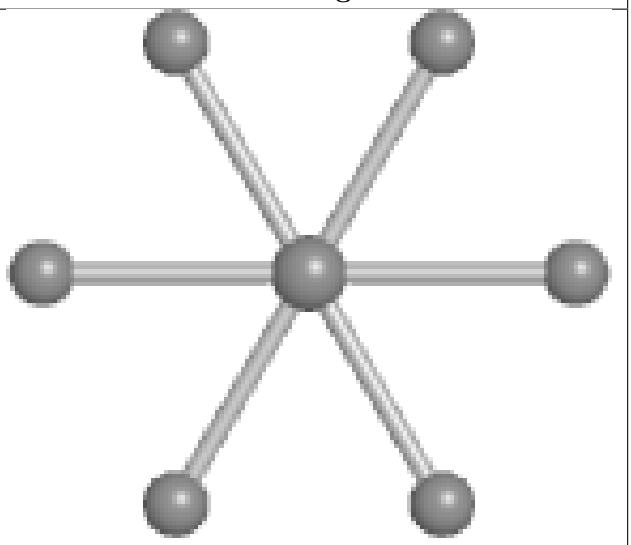
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Bond angles

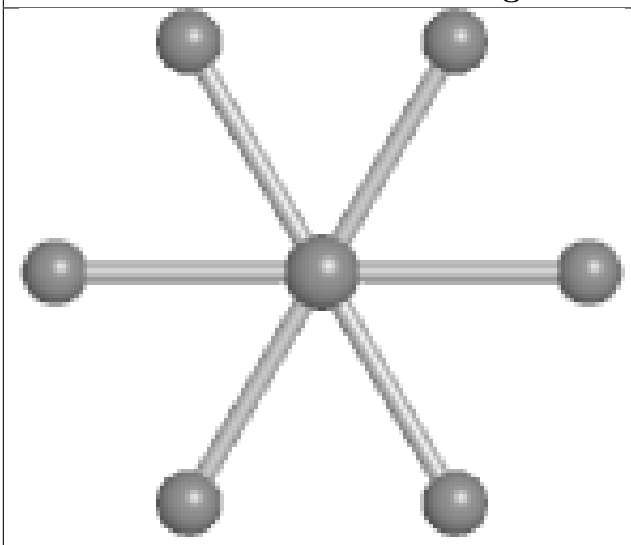


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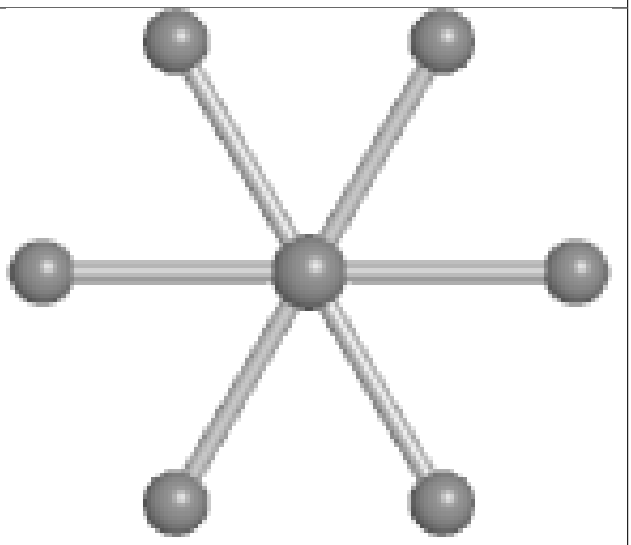


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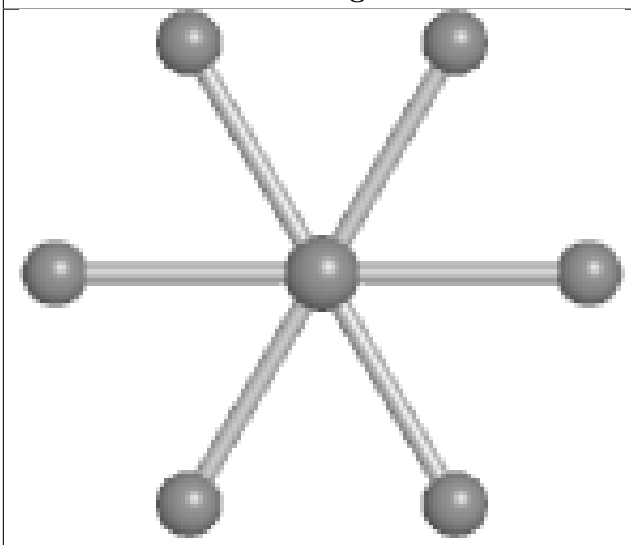
Ligand OHX C1 1985



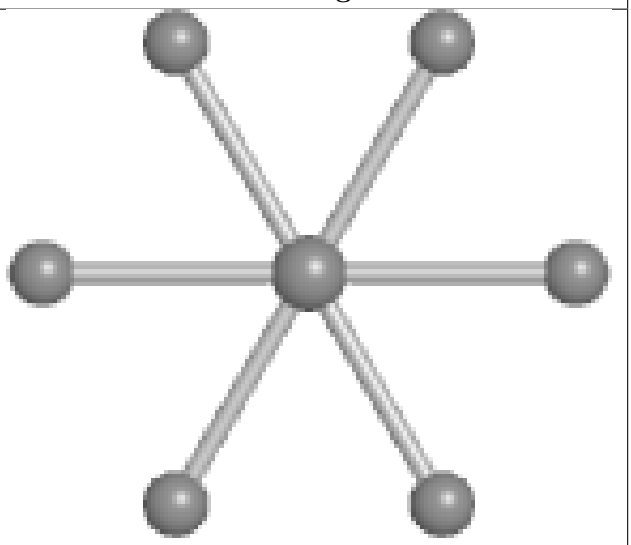
Bond lengths



Bond angles

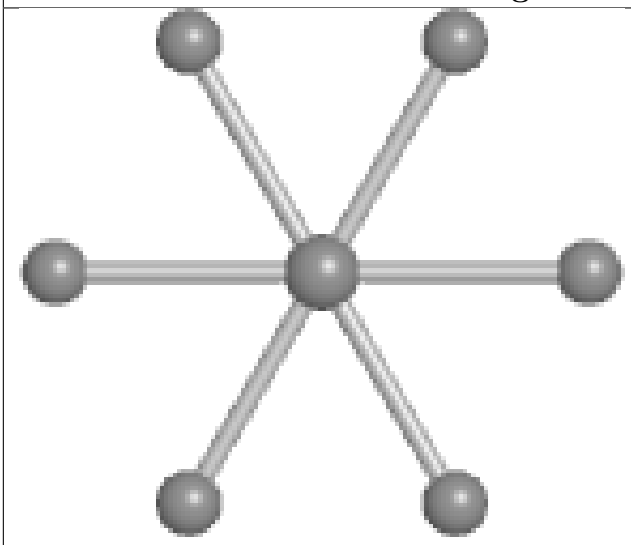


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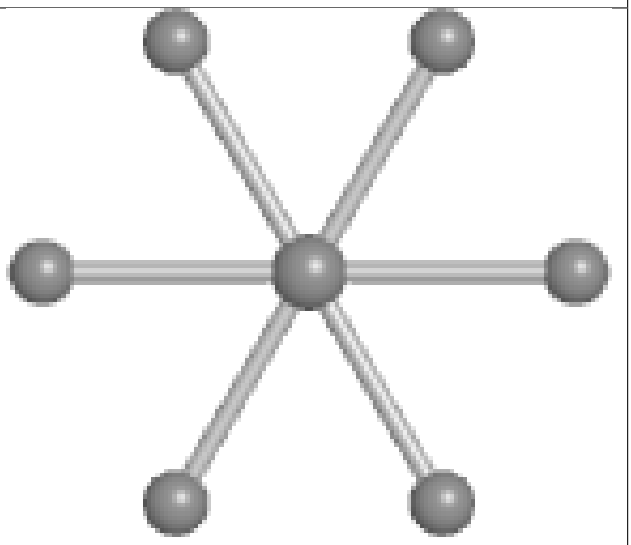


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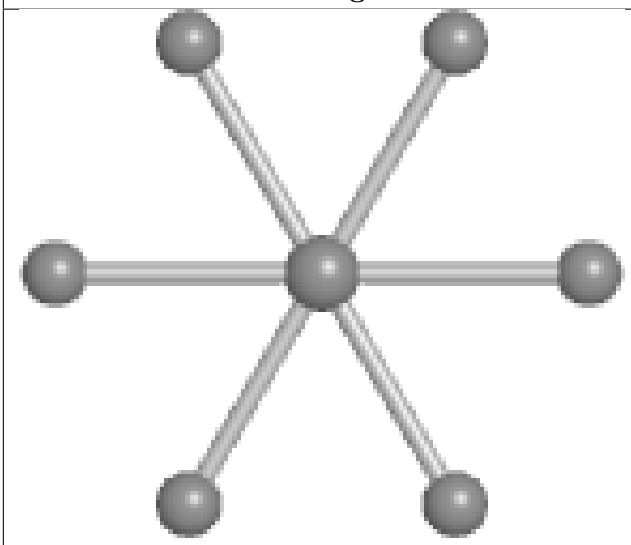
Ligand OHX B2 207



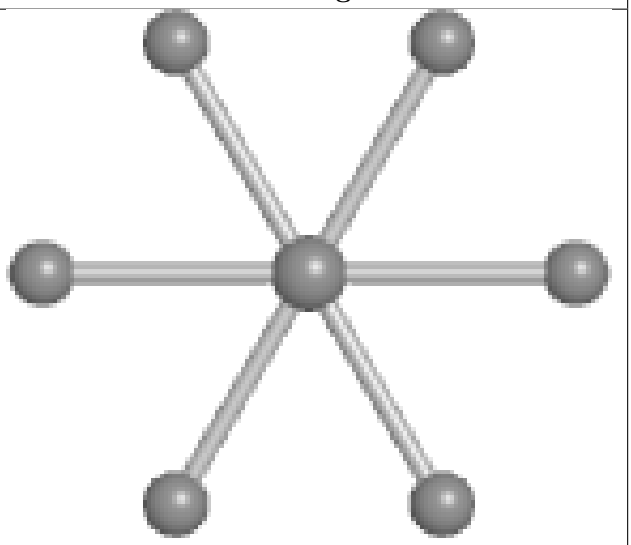
Bond lengths



Bond angles

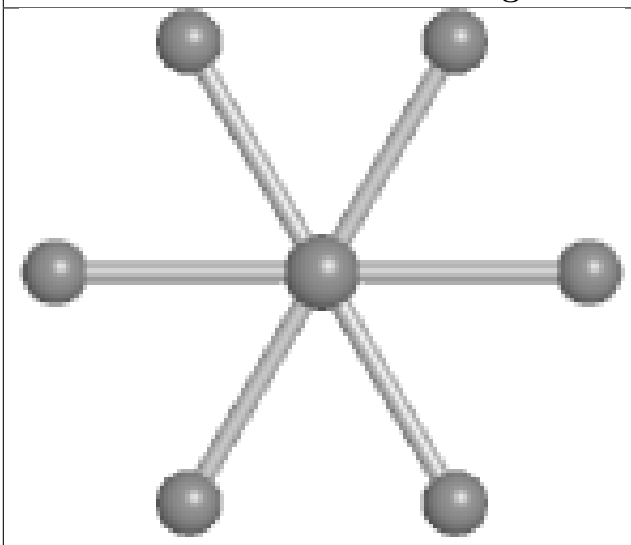


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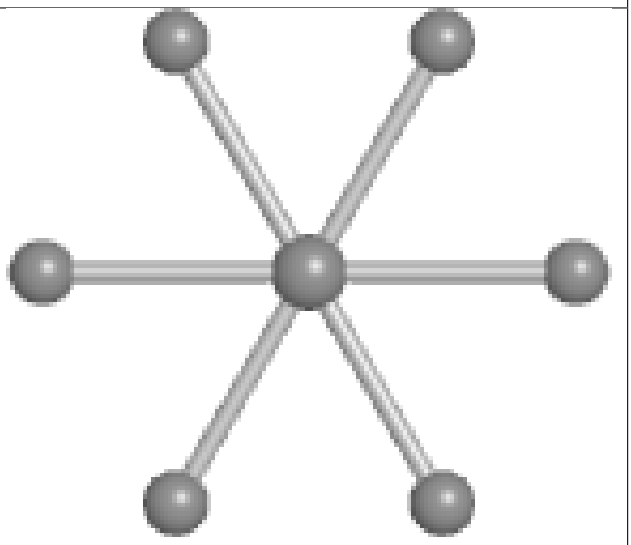


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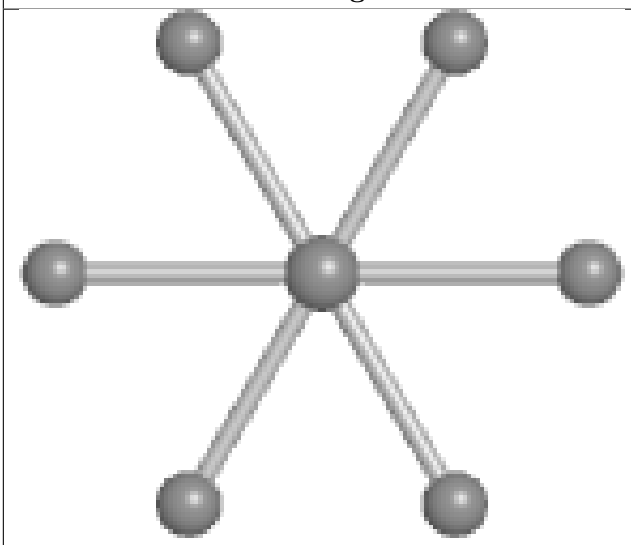
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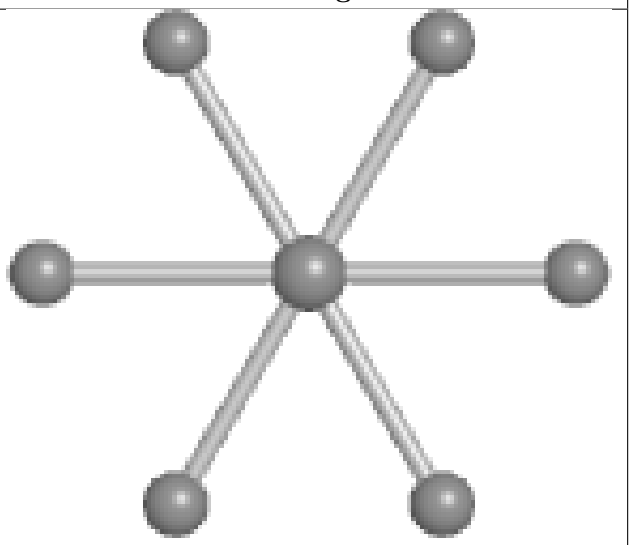
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Bond angles

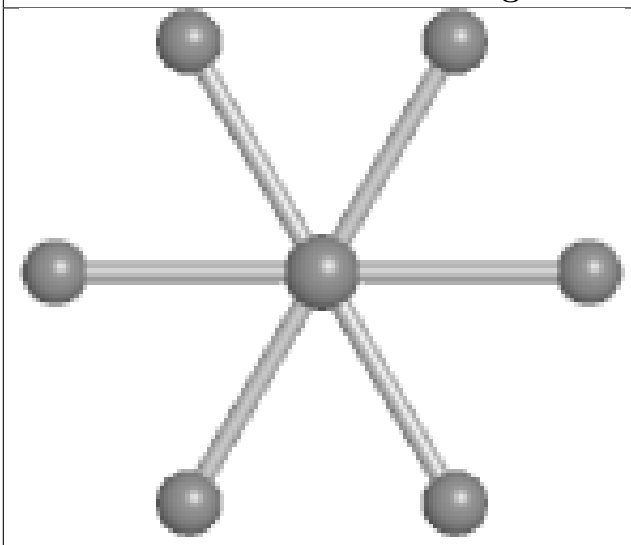


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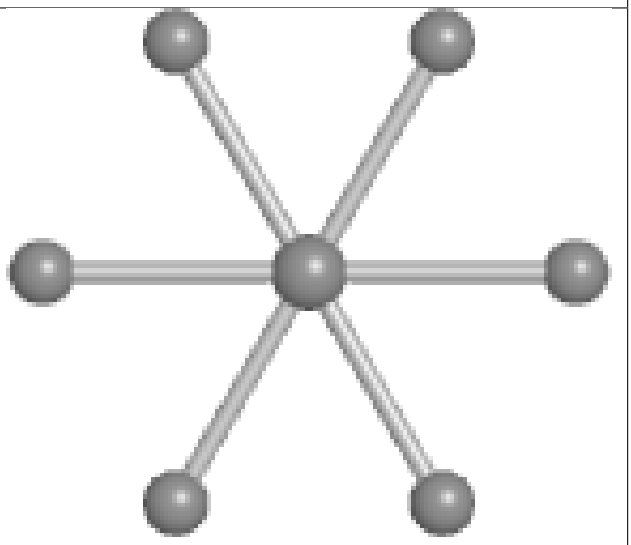


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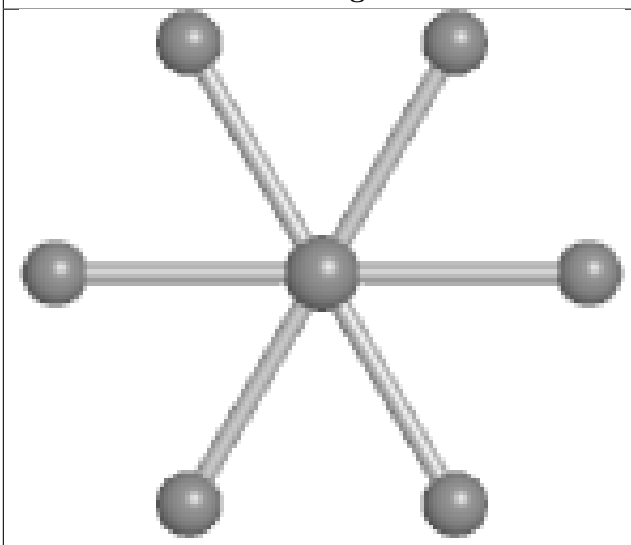
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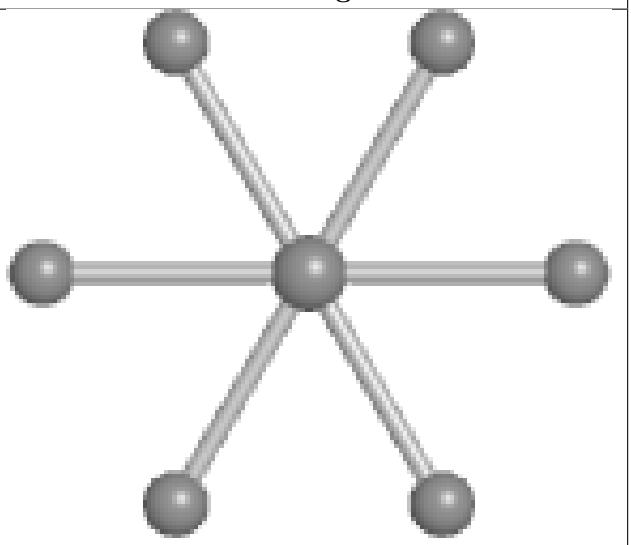
Bond lengths



Bond angles

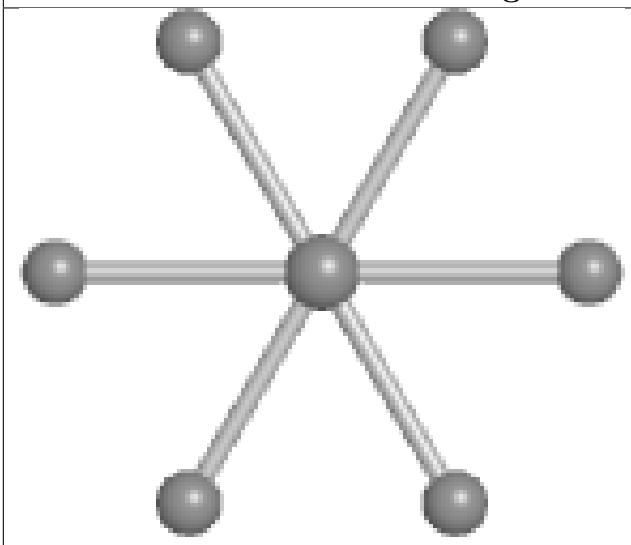


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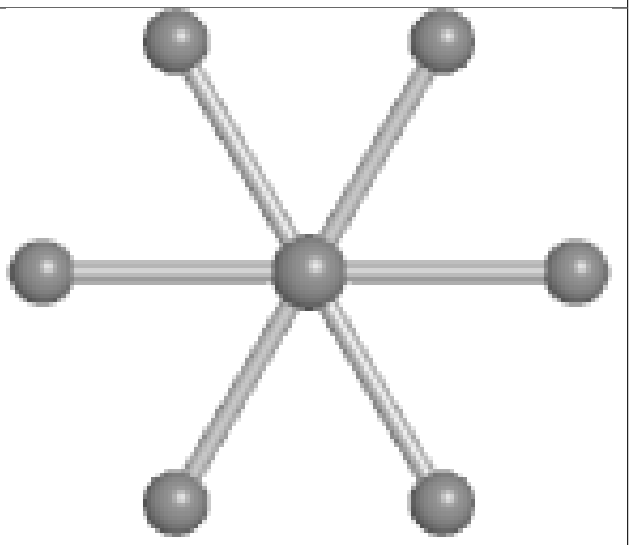


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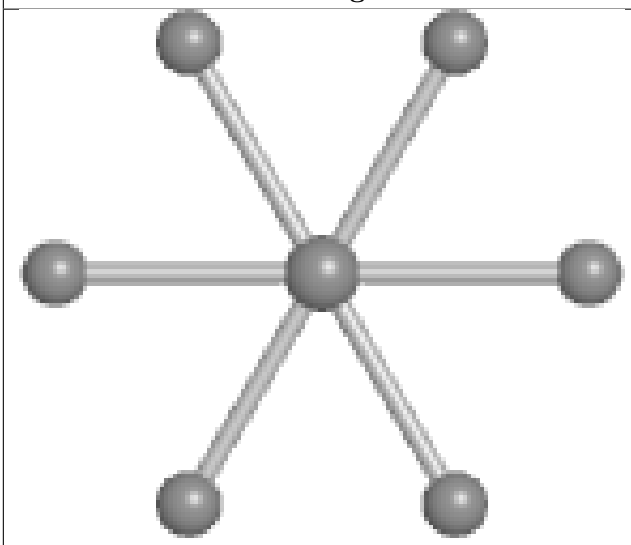
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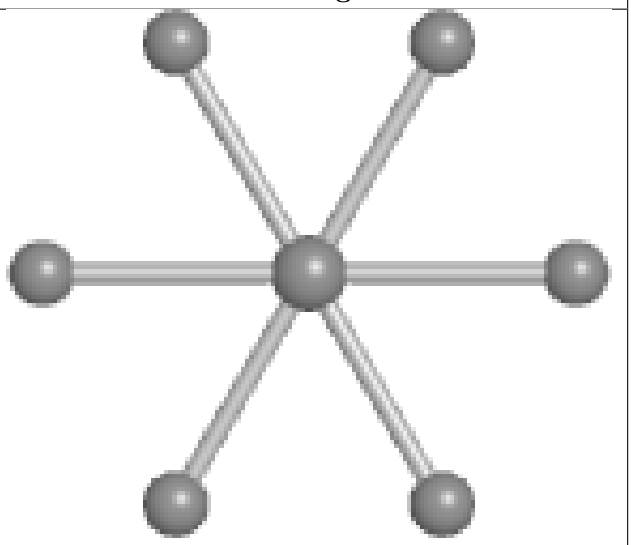
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Bond angles

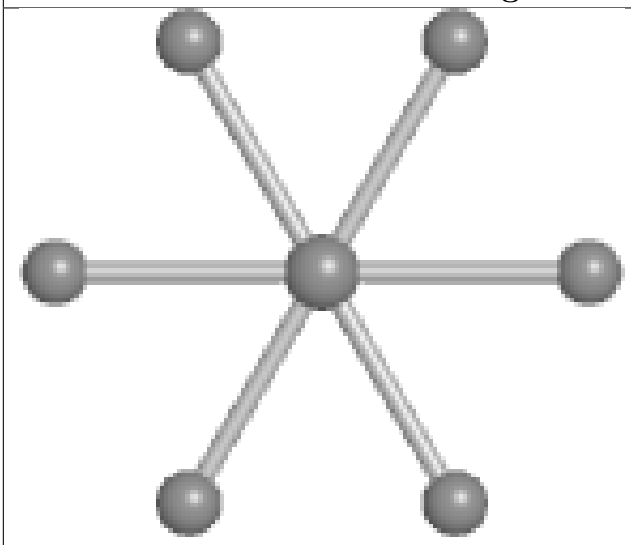


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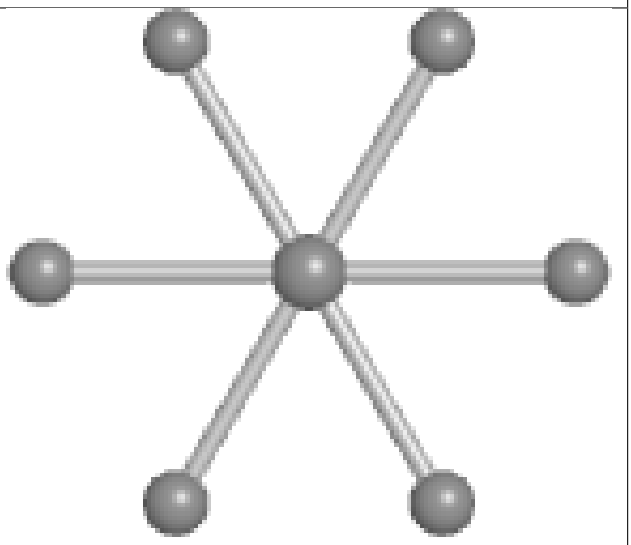


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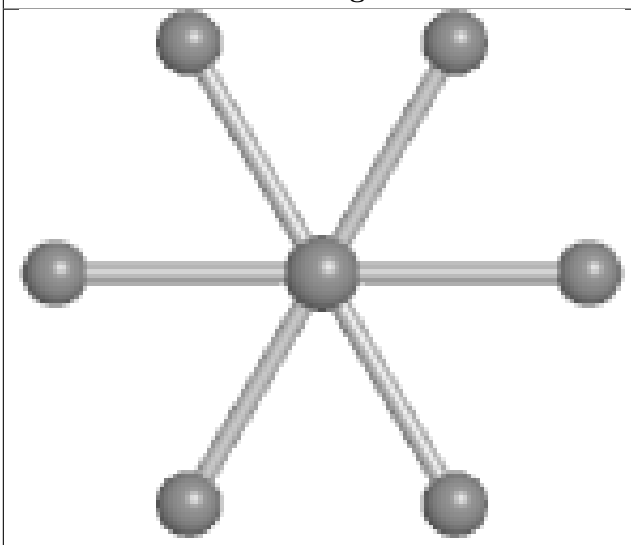
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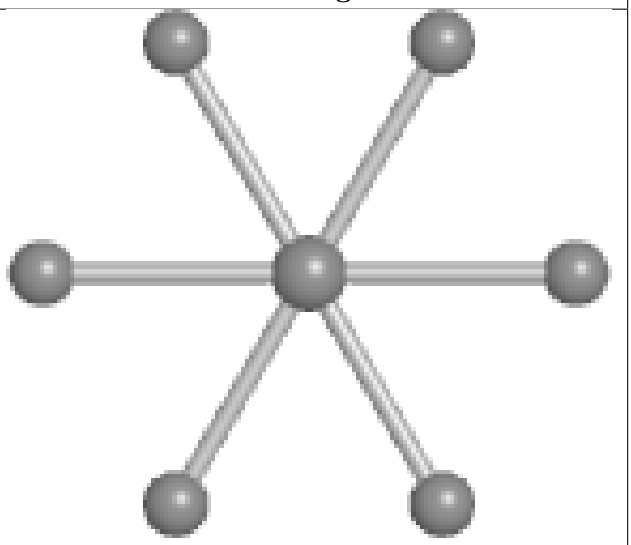
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Bond angles

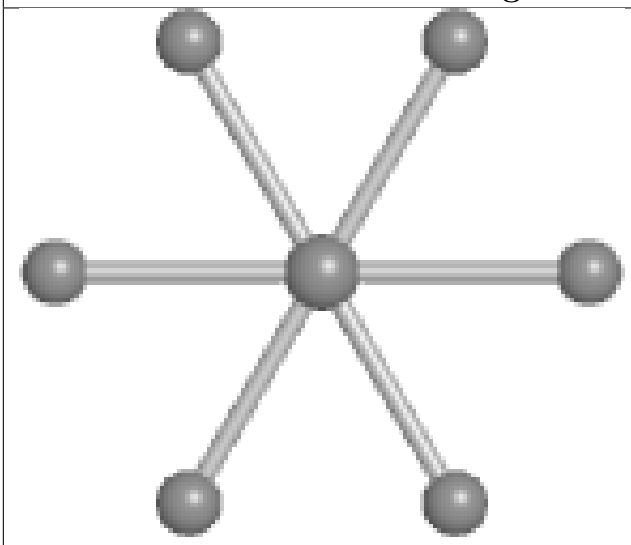


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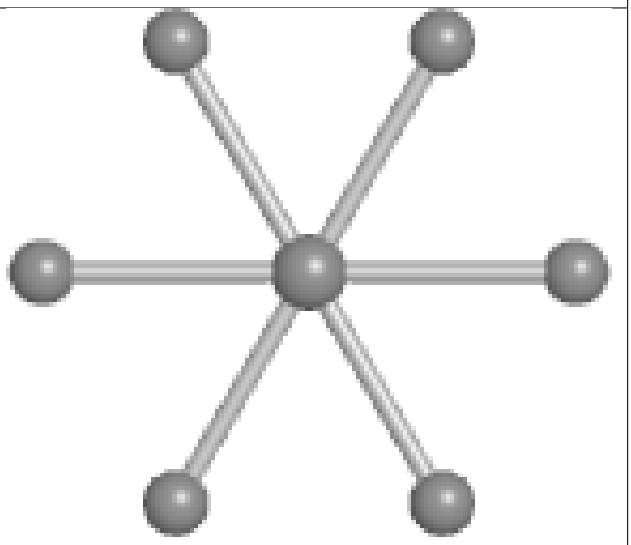


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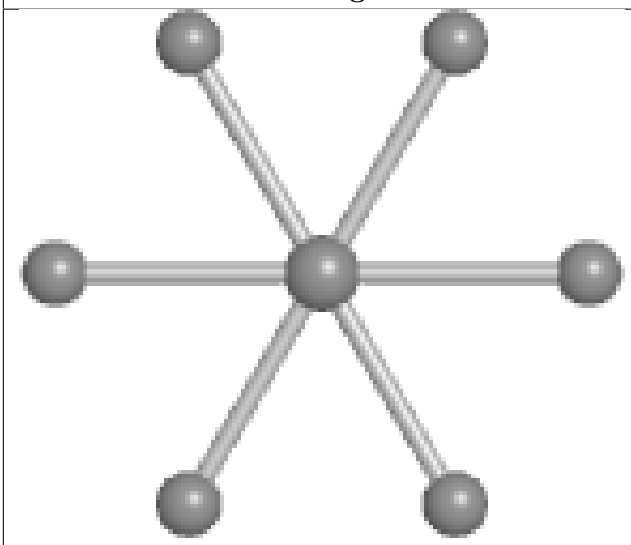
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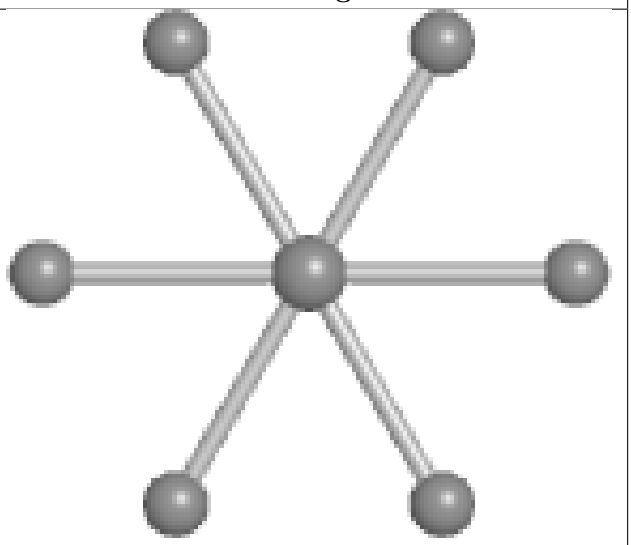
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Bond angles

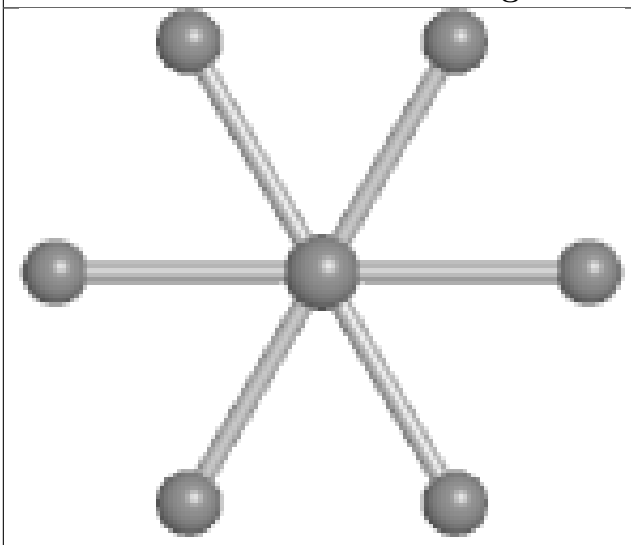


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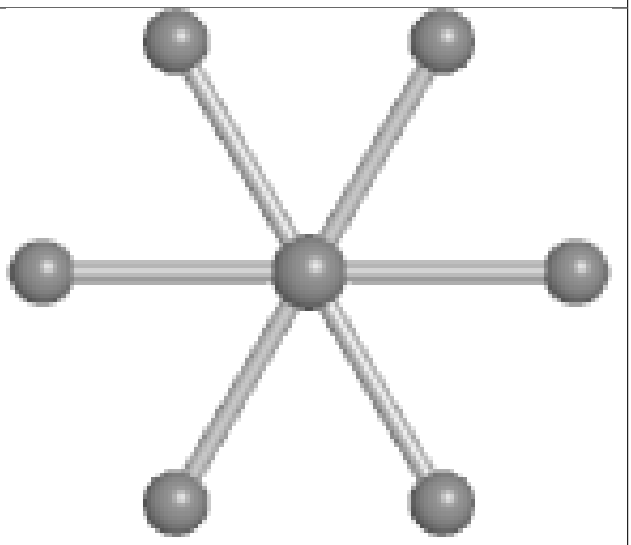


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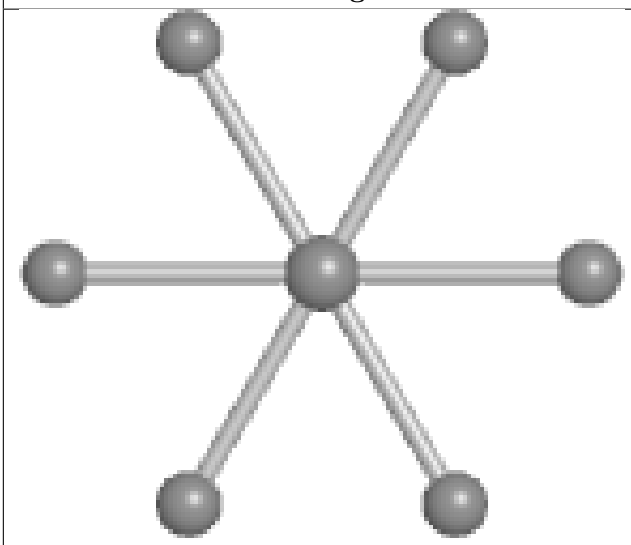
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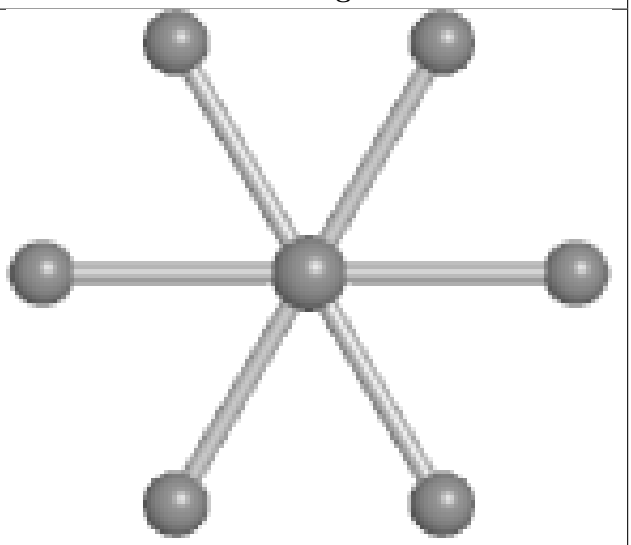
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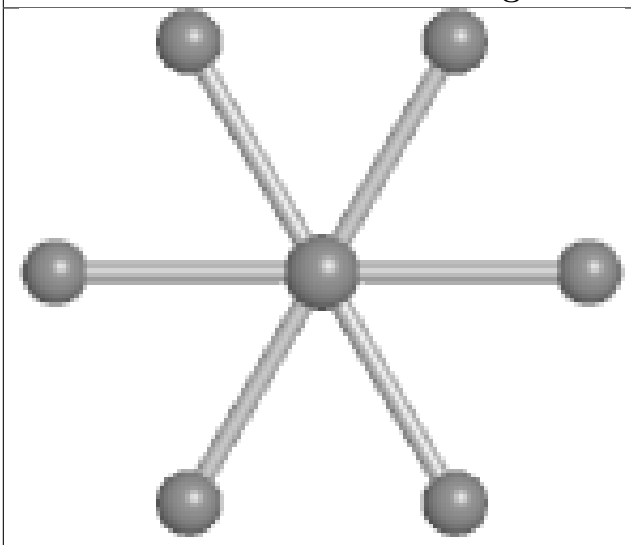


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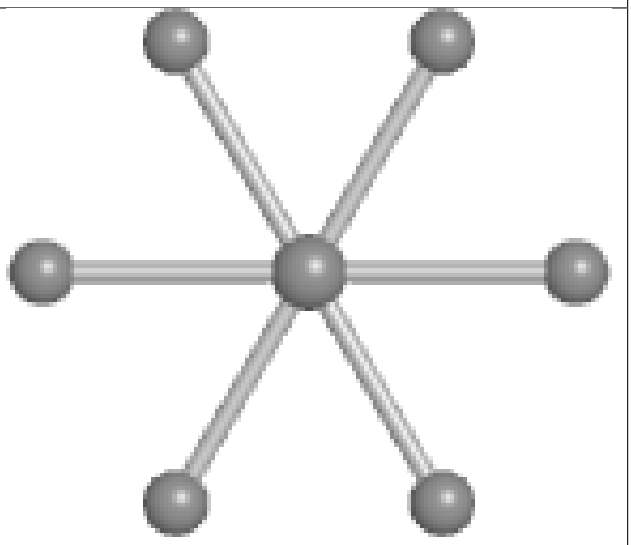


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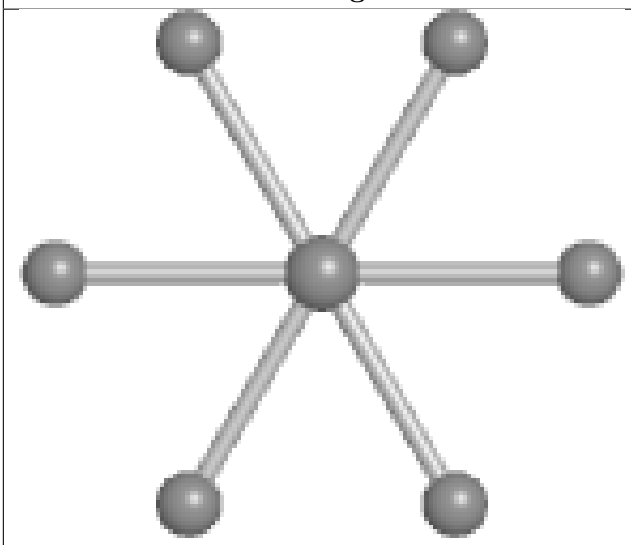
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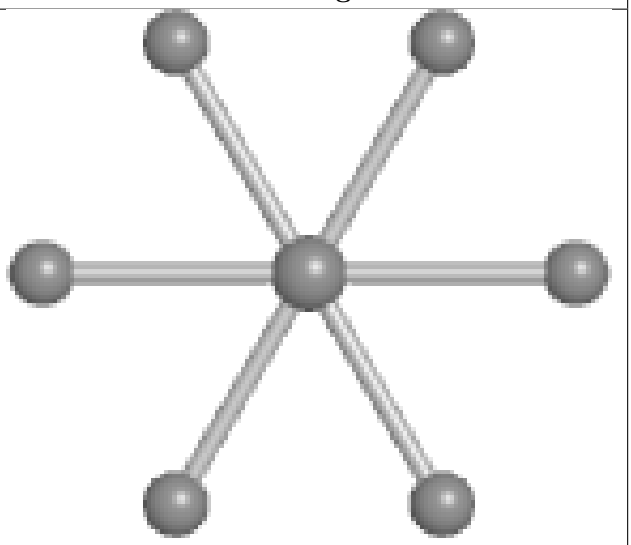
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Bond angles

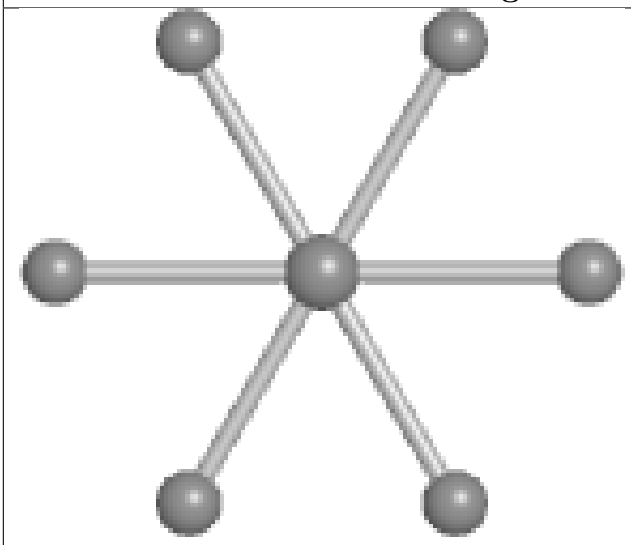


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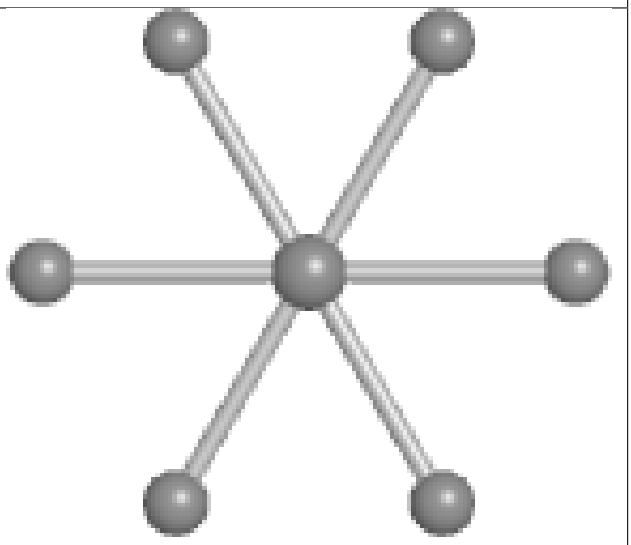


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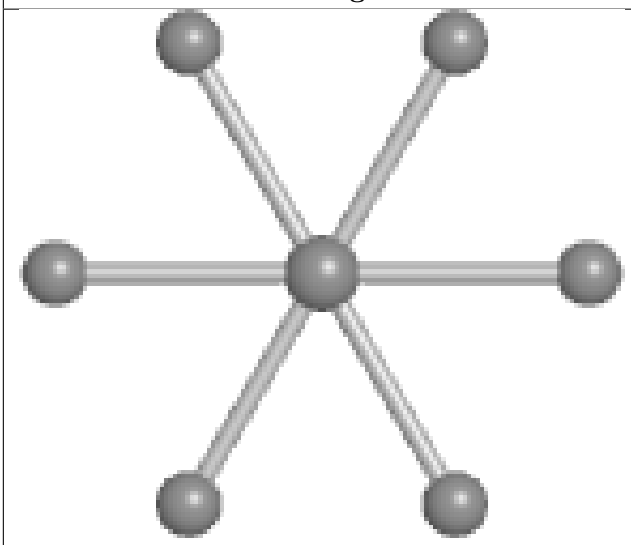
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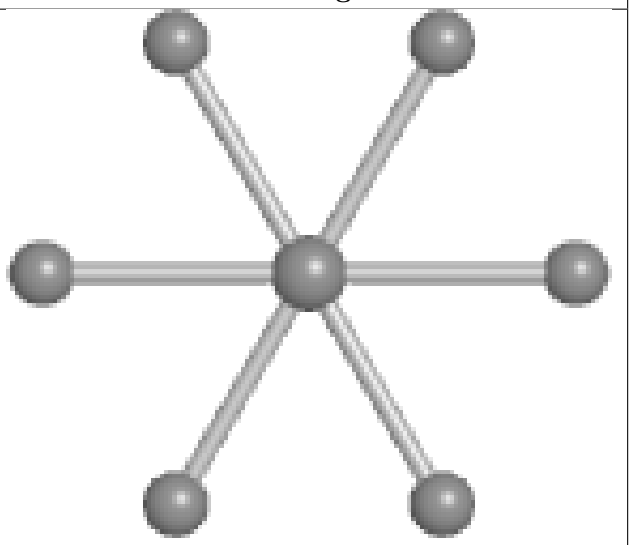
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Bond angles

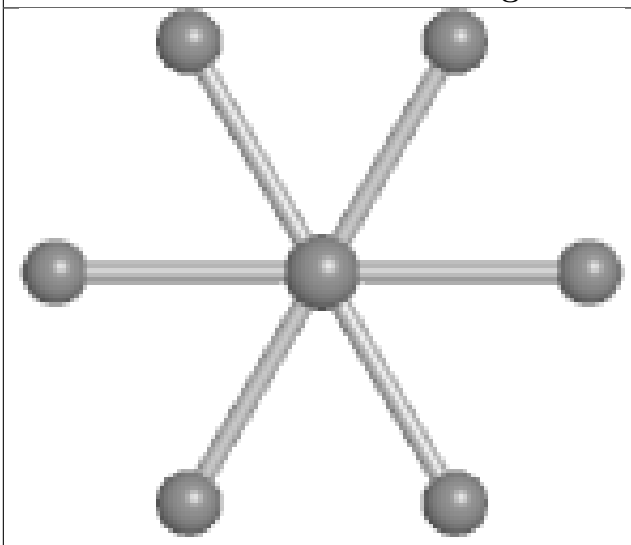


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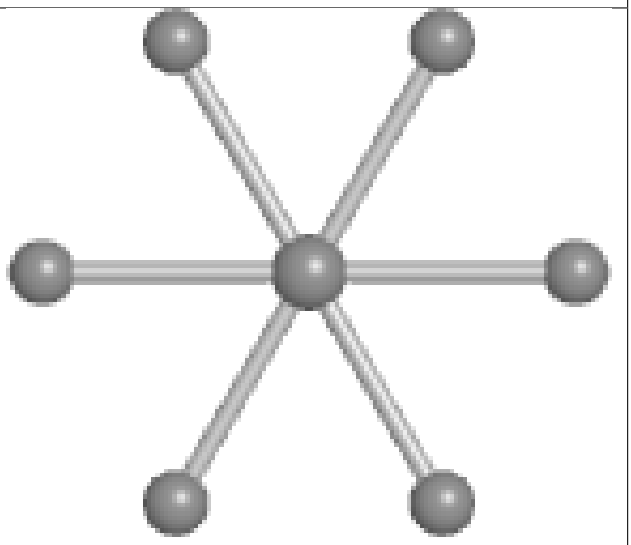


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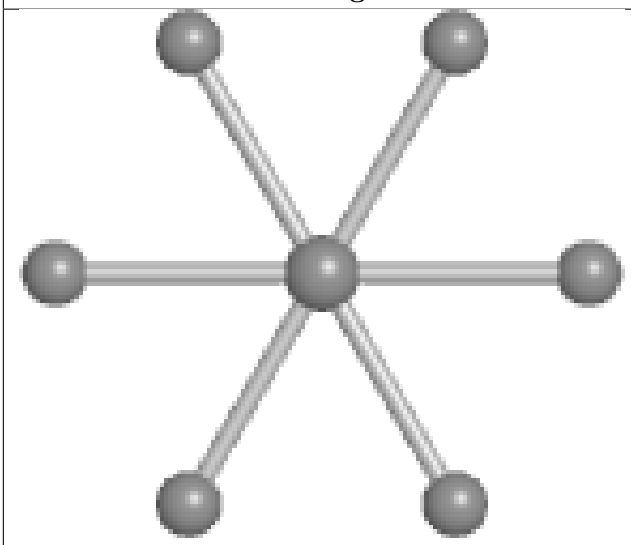
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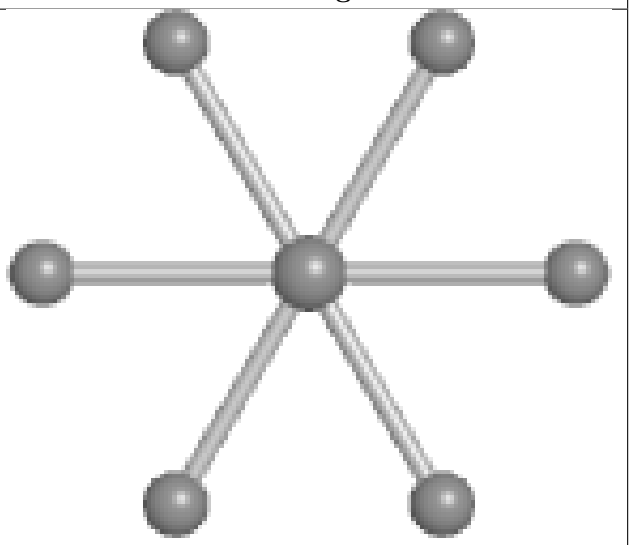
Bond lengths



Bond angles

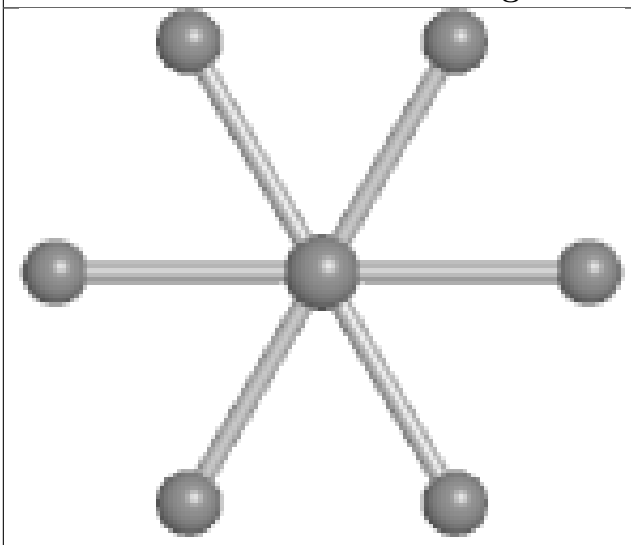


Torsions

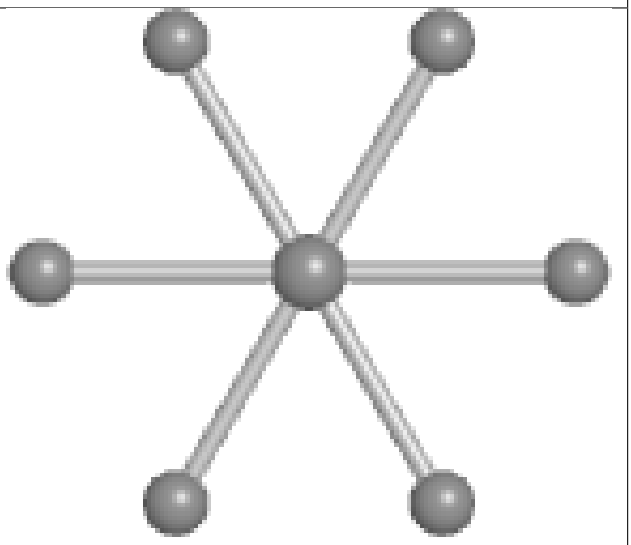


Rings

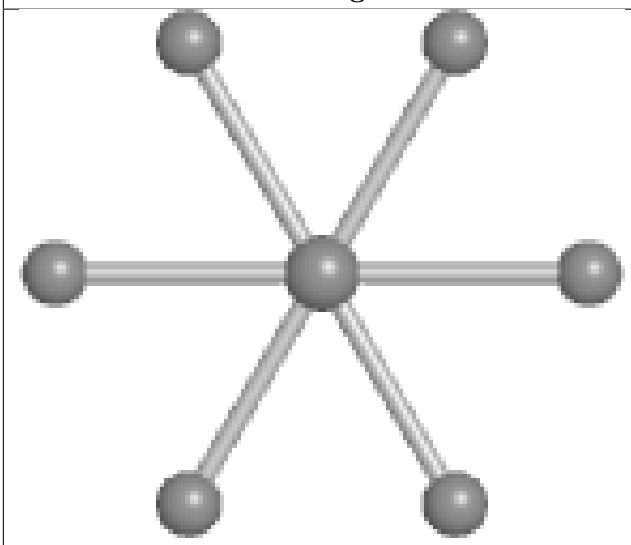
Ligand OHX A1 1988



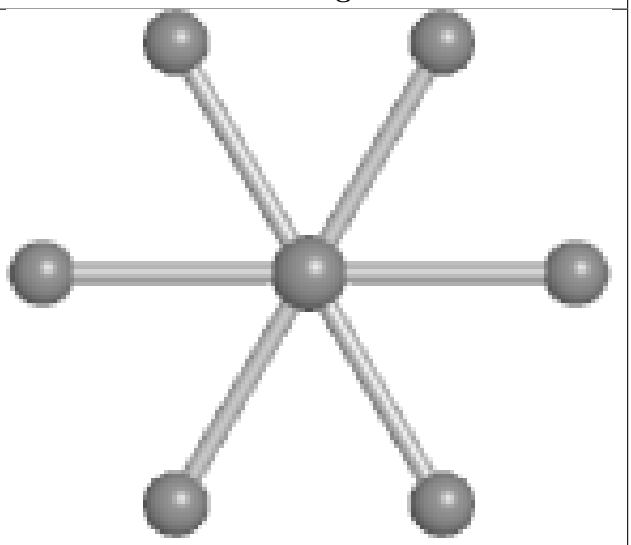
Bond lengths



Bond angles

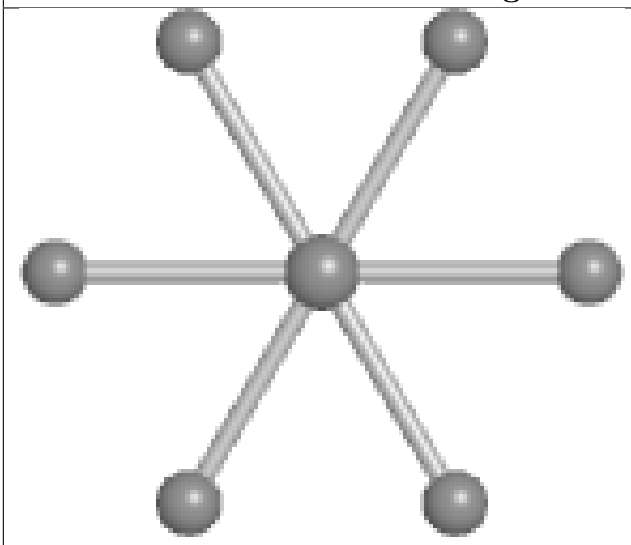


Torsions

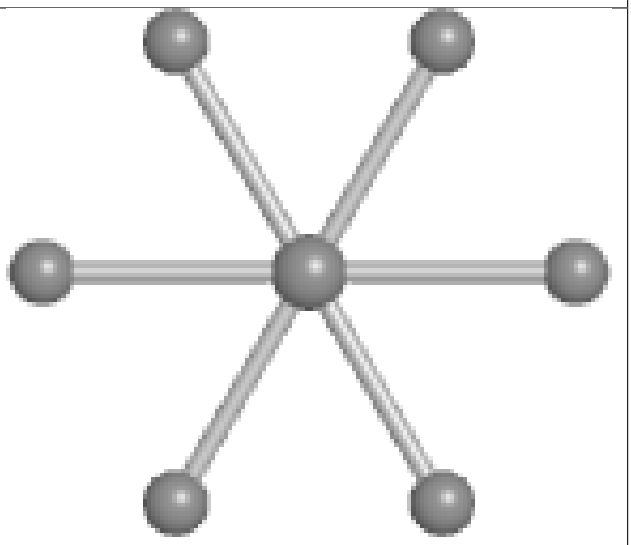


Rings

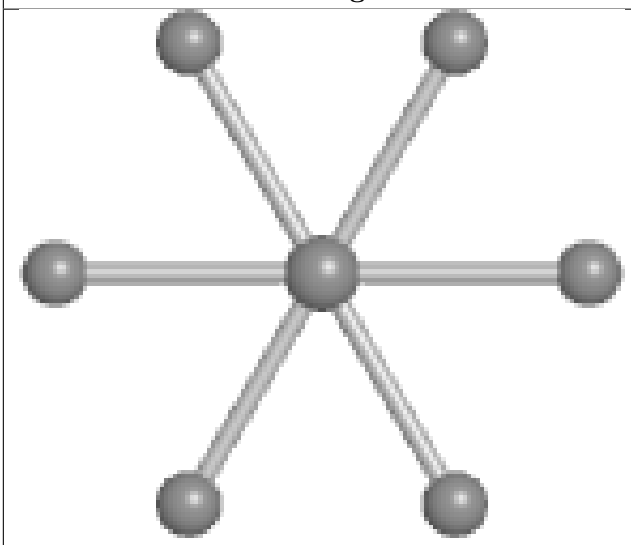
Ligand OHX B1 3602



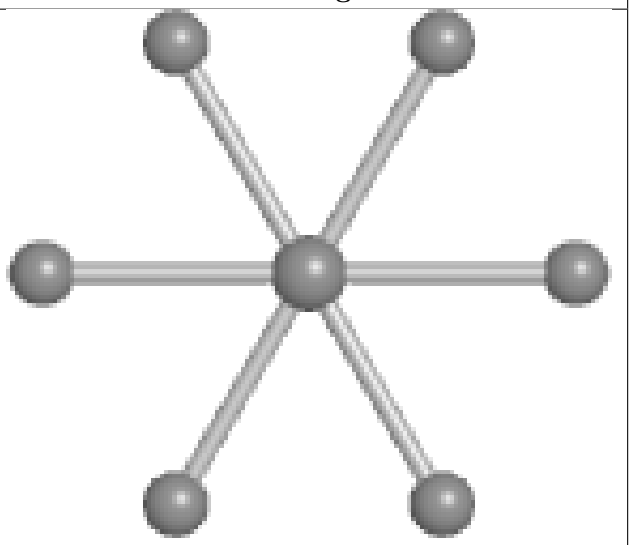
Bond lengths



Bond angles

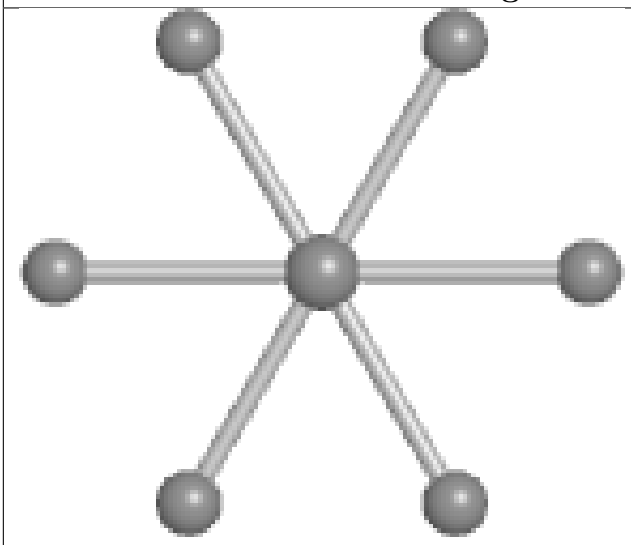


Torsions

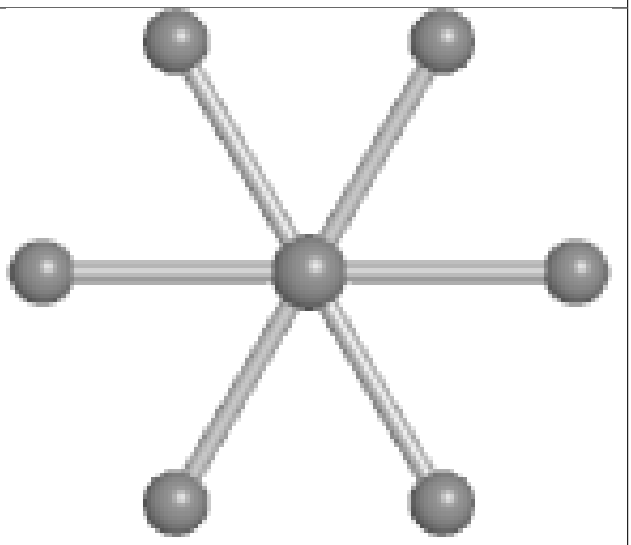


Rings

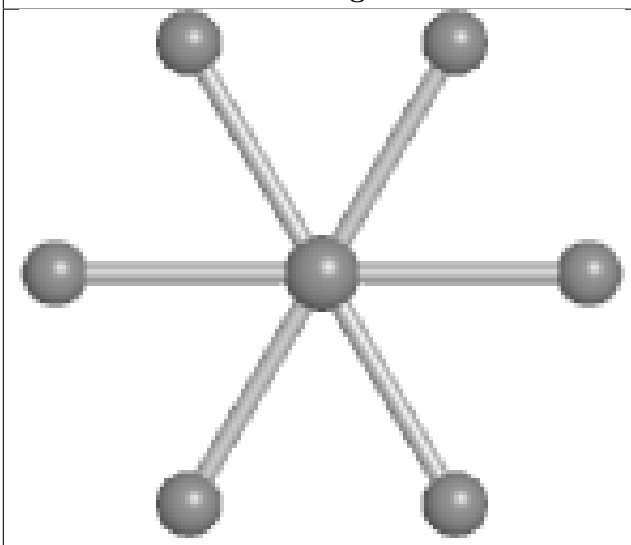
Ligand OHX D1 3541



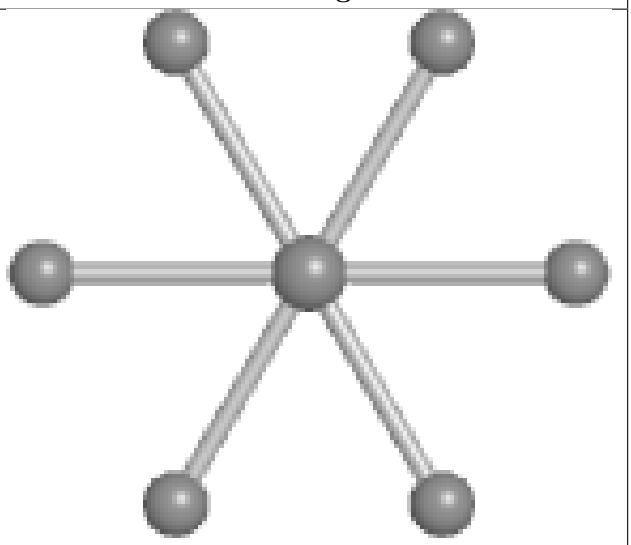
Bond lengths



Bond angles

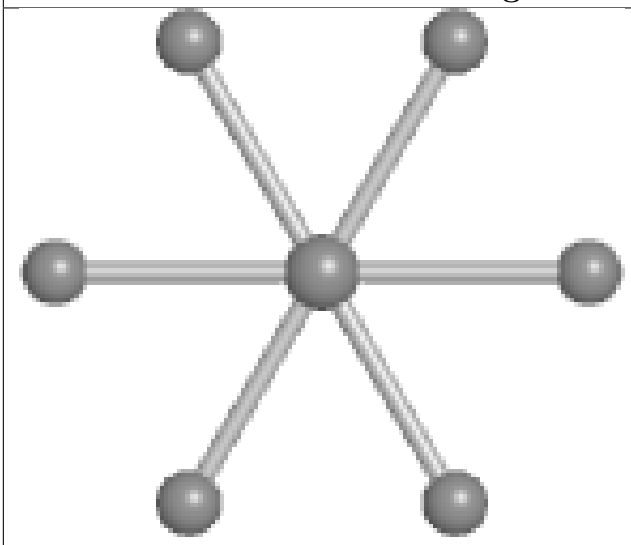


Torsions

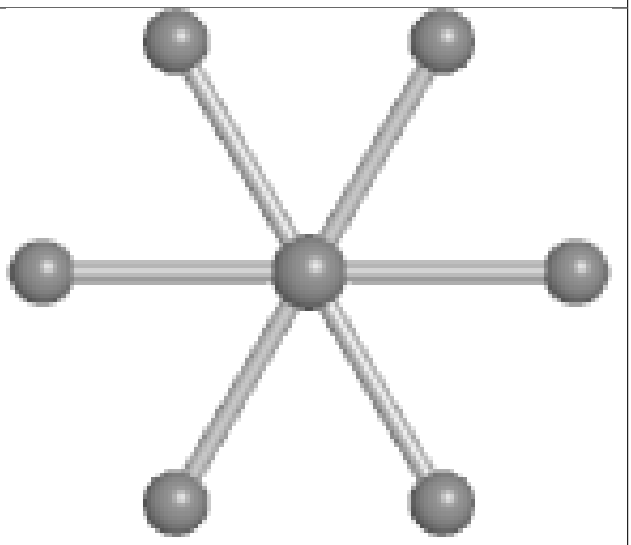


Rings

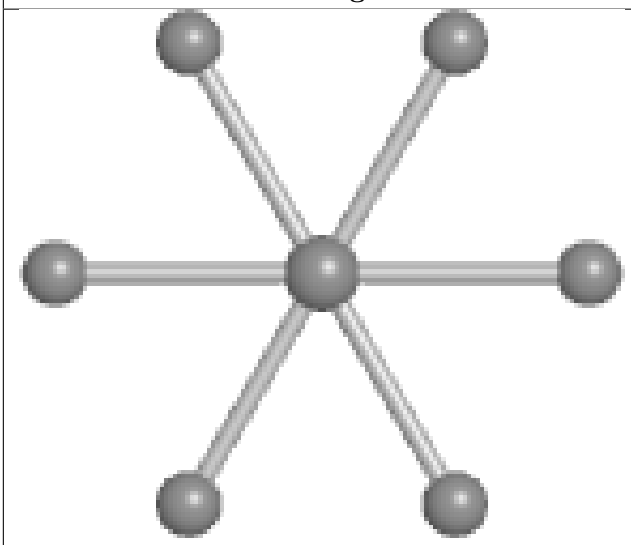
Ligand OHX C1 1998



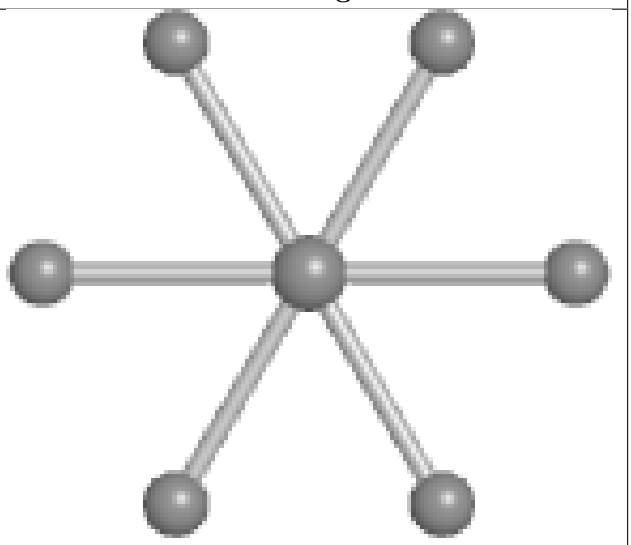
Bond lengths



Bond angles

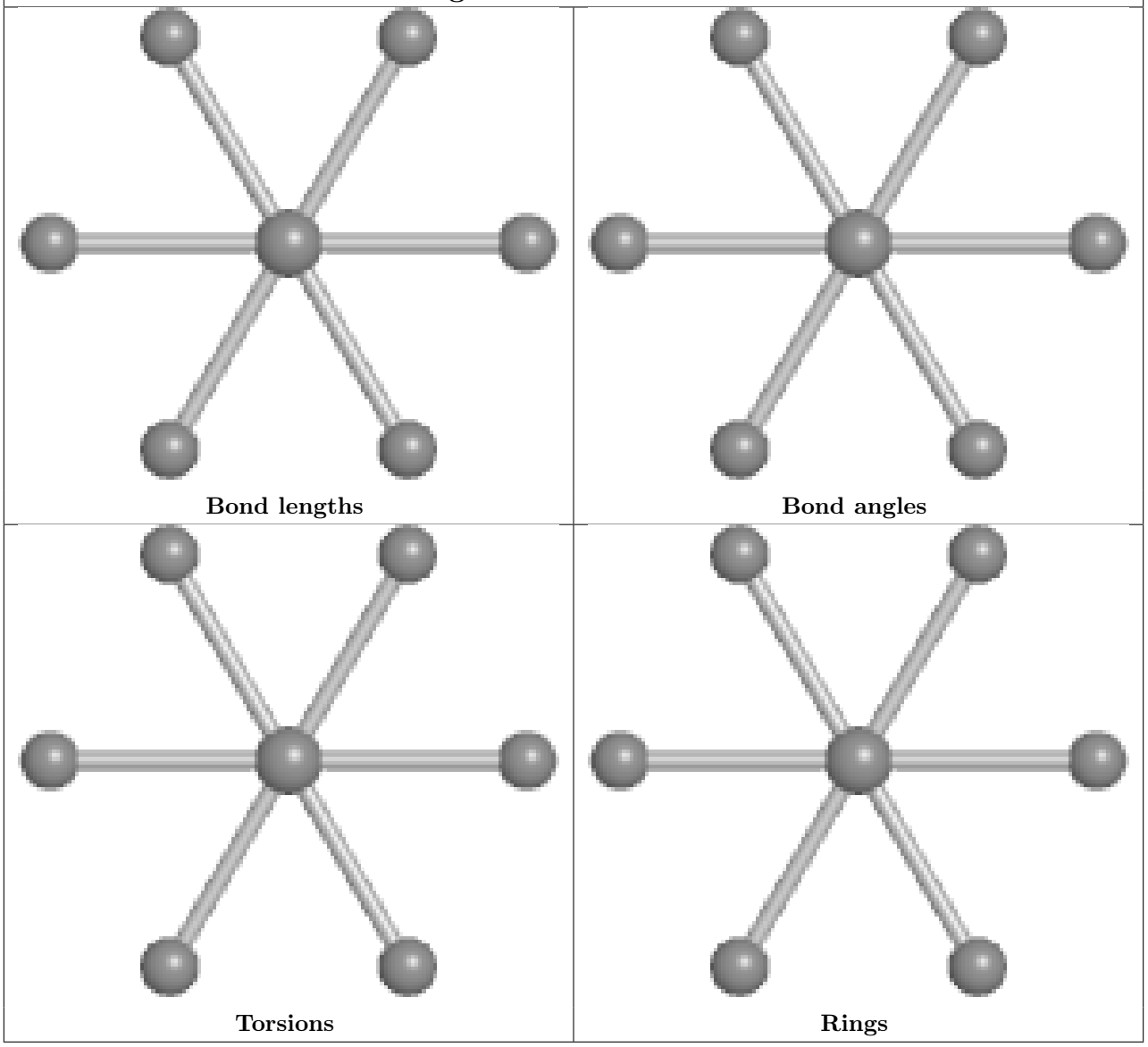


Torsions



Rings

Ligand OHX D1 3573



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
23	Ab	4
23	Cb	4
63	Bh	1

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Mol	Chain	Number of breaks
63	Dh	1
28	Ch	1
68	Bn	1
28	Ah	1
24	Cc	1
24	Ac	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Bh	23:UNK	C	34:UNK	N	29.25
1	Dh	23:UNK	C	34:UNK	N	28.80
1	Ch	25:UNK	C	50:UNK	N	22.77
1	Ab	19:UNK	C	21:UNK	N	20.41
1	Bn	19:UNK	C	27:UNK	N	20.28
1	Cb	19:UNK	C	21:UNK	N	19.97
1	Cb	30:UNK	C	45:UNK	N	19.12
1	Ah	25:UNK	C	50:UNK	N	19.01
1	Cb	86:UNK	C	101:UNK	N	15.94
1	Ab	68:UNK	C	71:UNK	N	15.61
1	Ab	86:UNK	C	101:UNK	N	13.12
1	Cb	68:UNK	C	71:UNK	N	10.71
1	Ab	30:UNK	C	45:UNK	N	9.43
1	Cc	54:UNK	C	61:UNK	N	5.78
1	Ac	54:UNK	C	61:UNK	N	4.90

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	A1	1789/1800 (99%)	0.64	135 (7%)	20	20	45, 138, 429, 753	0
1	C1	1789/1800 (99%)	0.68	135 (7%)	20	20	42, 120, 419, 674	0
2	AA	220/252 (87%)	1.20	51 (23%)	2	4	64, 150, 323, 474	0
2	CA	220/252 (87%)	1.04	42 (19%)	3	6	66, 119, 336, 538	0
3	AB	219/254 (86%)	0.90	35 (15%)	5	8	42, 117, 298, 500	0
3	CB	219/254 (86%)	0.93	41 (18%)	3	6	50, 108, 288, 386	0
4	AC	189/240 (78%)	0.96	35 (18%)	3	6	52, 120, 278, 403	0
4	CC	189/240 (78%)	0.74	26 (13%)	6	10	41, 120, 262, 460	0
5	AD	169/225 (75%)	0.95	33 (19%)	3	6	58, 150, 355, 516	0
5	CD	169/225 (75%)	1.27	46 (27%)	1	3	33, 108, 269, 383	0
6	AE	157/197 (79%)	1.11	30 (19%)	3	6	44, 140, 362, 438	0
6	CE	157/197 (79%)	0.95	30 (19%)	3	6	31, 99, 330, 482	0
7	AF	77/156 (49%)	1.17	19 (24%)	2	4	45, 95, 205, 412	0
7	CF	77/156 (49%)	1.96	30 (38%)	1	2	56, 91, 267, 342	0
8	AG	117/151 (77%)	0.68	23 (19%)	3	5	35, 108, 284, 362	0
8	CG	117/151 (77%)	1.01	25 (21%)	2	5	46, 97, 263, 458	0
9	AH	128/137 (93%)	1.35	38 (29%)	1	3	53, 186, 349, 436	0
9	CH	128/137 (93%)	1.18	36 (28%)	1	3	39, 132, 354, 482	0
10	AI	121/142 (85%)	1.07	30 (24%)	2	4	55, 140, 329, 419	0
10	CI	121/142 (85%)	1.61	43 (35%)	1	2	46, 116, 273, 447	0
11	AJ	134/143 (93%)	1.08	32 (23%)	2	4	74, 144, 302, 340	0
11	CJ	134/143 (93%)	1.37	36 (26%)	1	3	44, 99, 288, 381	0
12	AK	67/136 (49%)	0.96	11 (16%)	4	8	52, 142, 319, 407	0
12	CK	67/136 (49%)	1.97	28 (41%)	0	1	64, 199, 350, 401	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
13	AL	120/146 (82%)	1.07	28 (23%)	2	4	55, 146, 298, 514	0
13	CL	120/146 (82%)	0.94	24 (20%)	3	5	52, 96, 293, 519	0
14	AM	106/144 (73%)	0.75	16 (15%)	5	9	71, 138, 348, 425	0
14	CM	106/144 (73%)	0.97	21 (19%)	3	5	42, 81, 260, 338	0
15	AN	111/121 (91%)	1.75	39 (35%)	1	2	68, 129, 336, 412	0
15	CN	111/121 (91%)	1.19	30 (27%)	1	3	32, 111, 286, 424	0
16	AO	127/130 (97%)	0.75	20 (15%)	5	9	53, 95, 256, 411	0
16	CO	127/130 (97%)	0.90	20 (15%)	5	9	54, 91, 229, 441	0
17	AP	116/145 (80%)	1.10	26 (22%)	2	4	29, 95, 247, 384	0
17	CP	116/145 (80%)	1.08	23 (19%)	3	5	29, 71, 190, 418	0
18	AQ	67/108 (62%)	1.13	11 (16%)	4	8	94, 210, 332, 355	0
18	CQ	63/108 (58%)	1.74	25 (39%)	1	1	68, 150, 282, 307	0
19	AR	47/67 (70%)	1.27	11 (23%)	2	4	107, 245, 393, 457	0
19	CR	47/67 (70%)	1.75	14 (29%)	1	3	51, 221, 381, 425	0
20	AS	39/56 (69%)	1.45	11 (28%)	1	3	58, 108, 181, 260	0
20	CS	39/56 (69%)	0.99	4 (10%)	12	14	37, 95, 140, 292	0
21	AT	313/319 (98%)	1.33	76 (24%)	2	4	106, 195, 286, 348	0
21	CT	313/319 (98%)	1.53	90 (28%)	1	3	67, 158, 257, 328	0
22	Aa	0/20	-	-			-	-
22	Bo	0/20	-	-			-	-
22	Ca	0/20	-	-			-	-
23	Ab	0/105	-	-			-	-
23	Cb	0/105	-	-			-	-
24	Ac	0/93	-	-			-	-
24	Cc	0/93	-	-			-	-
25	Ad	0/35	-	-			-	-
25	Cd	0/35	-	-			-	-
26	Ae	0/21	-	-			-	-
26	Bj	0/21	-	-			-	-
26	Dj	0/21	-	-			-	-
27	Af	0/11	-	-			-	-
28	Ah	0/41	-	-			-	-
28	Ch	0/41	-	-			-	-
29	B1	3206/3396 (94%)	0.48	178 (5%)	30	26	33, 86, 395, 634	0
29	D1	3206/3396 (94%)	0.53	224 (6%)	22	21	30, 94, 427, 674	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
30	B2	121/121 (100%)	0.56	8 (6%) 24 22	46, 118, 189, 323	0
30	D2	121/121 (100%)	0.61	11 (9%) 15 17	36, 95, 180, 349	0
31	B3	158/158 (100%)	0.46	10 (6%) 26 23	46, 108, 258, 619	0
31	D3	158/158 (100%)	0.71	16 (10%) 12 14	59, 136, 358, 586	0
32	BA	213/217 (98%)	1.14	40 (18%) 3 6	137, 327, 441, 483	0
32	DA	213/217 (98%)	1.14	43 (20%) 3 5	159, 354, 442, 484	0
33	BB	234/254 (92%)	1.45	70 (29%) 1 3	25, 83, 246, 419	0
33	DB	234/254 (92%)	1.52	80 (34%) 1 2	54, 108, 254, 417	0
34	BC	364/387 (94%)	1.03	77 (21%) 2 5	20, 66, 216, 560	0
34	DC	364/387 (94%)	0.95	67 (18%) 3 6	29, 58, 208, 543	0
35	BD	268/362 (74%)	0.90	45 (16%) 4 7	34, 70, 207, 500	0
35	DD	268/362 (74%)	1.30	64 (23%) 2 4	50, 102, 274, 463	0
36	BE	287/297 (96%)	1.39	82 (28%) 1 3	58, 119, 355, 497	0
36	DE	287/297 (96%)	1.09	64 (22%) 2 4	38, 91, 302, 478	0
37	BF	176/176 (100%)	1.02	38 (21%) 2 4	25, 81, 305, 519	0
37	DF	176/176 (100%)	1.29	46 (26%) 1 4	31, 69, 342, 518	0
38	BG	215/244 (88%)	0.39	20 (9%) 14 16	21, 59, 226, 486	0
38	DG	215/244 (88%)	0.45	15 (6%) 22 21	25, 49, 167, 330	0
39	BH	173/256 (67%)	1.07	41 (23%) 2 4	45, 110, 297, 429	0
39	DH	173/256 (67%)	1.30	45 (26%) 1 4	70, 146, 316, 422	0
40	BI	191/191 (100%)	1.08	38 (19%) 3 5	27, 83, 237, 347	0
40	DI	191/191 (100%)	0.18	11 (5%) 29 25	22, 49, 164, 286	0
41	BJ	208/221 (94%)	1.34	56 (26%) 1 3	39, 93, 251, 452	0
41	DJ	208/221 (94%)	0.96	41 (19%) 3 5	25, 64, 257, 456	0
42	BK	165/174 (94%)	1.50	45 (27%) 1 3	56, 125, 348, 497	0
42	DK	165/174 (94%)	1.32	41 (24%) 2 4	45, 97, 330, 532	0
43	BN	120/138 (86%)	1.07	29 (24%) 2 4	34, 77, 260, 387	0
43	DN	120/138 (86%)	0.96	21 (17%) 4 7	33, 60, 262, 325	0
44	BO	187/204 (91%)	1.26	48 (25%) 1 4	38, 86, 178, 383	0
44	DO	187/204 (91%)	1.72	72 (38%) 1 2	57, 119, 255, 327	0
45	BP	196/199 (98%)	0.37	18 (9%) 14 17	23, 48, 152, 409	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
45	DP	196/199 (98%)	0.51	14 (7%) 22 21	23, 45, 111, 424	0
46	BQ	154/184 (83%)	0.81	23 (14%) 5 9	30, 55, 144, 337	0
46	DQ	154/184 (83%)	0.90	32 (20%) 2 5	37, 77, 243, 373	0
47	BR	143/186 (76%)	0.75	20 (13%) 6 10	38, 70, 200, 421	0
47	DR	143/186 (76%)	1.36	37 (25%) 1 4	60, 87, 244, 378	0
48	BS	188/189 (99%)	1.02	42 (22%) 2 4	52, 101, 419, 569	0
48	DS	188/189 (99%)	1.49	59 (31%) 1 3	59, 109, 589, 657	0
49	BT	119/160 (74%)	1.12	27 (22%) 2 4	42, 73, 221, 310	0
49	DT	119/160 (74%)	1.12	24 (20%) 3 5	36, 72, 184, 282	0
50	BU	129/137 (94%)	1.02	23 (17%) 4 6	27, 70, 208, 391	0
50	DU	129/137 (94%)	0.60	13 (10%) 12 14	20, 48, 151, 235	0
51	BV	59/155 (38%)	1.08	14 (23%) 2 4	29, 84, 259, 363	0
51	DV	59/155 (38%)	0.85	6 (10%) 12 14	53, 73, 197, 320	0
52	BW	94/142 (66%)	1.33	25 (26%) 1 4	53, 91, 211, 312	0
52	DW	94/142 (66%)	1.36	24 (25%) 1 4	64, 124, 247, 337	0
53	BX	107/127 (84%)	0.69	16 (14%) 5 9	58, 91, 182, 233	0
53	DX	107/127 (84%)	1.19	21 (19%) 3 5	56, 106, 248, 361	0
54	BY	149/149 (100%)	1.57	45 (30%) 1 3	30, 76, 331, 456	0
54	DY	149/149 (100%)	1.56	47 (31%) 1 3	49, 95, 277, 409	0
55	BZ	98/105 (93%)	0.96	16 (16%) 4 8	52, 128, 269, 360	0
55	DZ	98/105 (93%)	0.93	18 (18%) 3 6	56, 134, 272, 365	0
56	Ba	86/113 (76%)	0.95	19 (22%) 2 4	38, 83, 232, 396	0
56	Da	86/113 (76%)	1.19	25 (29%) 1 3	51, 82, 274, 430	0
57	Bb	125/130 (96%)	0.82	22 (17%) 4 7	26, 54, 138, 435	0
57	Db	125/130 (96%)	1.12	27 (21%) 2 4	39, 77, 168, 380	0
58	Bc	68/120 (56%)	0.70	10 (14%) 6 9	46, 89, 202, 381	0
58	Dc	68/120 (56%)	0.66	8 (11%) 9 12	50, 123, 270, 348	0
59	Bd	72/88 (81%)	1.53	22 (30%) 1 3	36, 79, 322, 434	0
59	Dd	72/88 (81%)	1.51	24 (33%) 1 2	30, 103, 268, 336	0
60	Be	48/51 (94%)	0.93	10 (20%) 2 5	30, 72, 159, 290	0
60	De	48/51 (94%)	1.44	13 (27%) 1 3	40, 118, 222, 333	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
61	Bf	95/106 (89%)	1.63	28 (29%) 1 3	57, 145, 363, 475	0
61	Df	95/106 (89%)	2.15	40 (42%) 0 1	62, 195, 389, 486	0
62	Bg	83/92 (90%)	1.13	19 (22%) 2 4	35, 98, 311, 431	0
62	Dg	83/92 (90%)	1.06	19 (22%) 2 4	42, 103, 241, 369	0
63	Bh	0/44	-	-	-	-
63	Dh	0/44	-	-	-	-
64	Bi	0/12	-	-	-	-
64	Di	0/12	-	-	-	-
65	Bk	0/16	-	-	-	-
65	Dk	0/16	-	-	-	-
66	Bl	0/19	-	-	-	-
67	Bm	0/9	-	-	-	-
68	Bn	0/27	-	-	-	-
69	Bp	0/8	-	-	-	-
70	Bq	0/17	-	-	-	-
71	Br	0/23	-	-	-	-
72	DL	138/165 (83%)	1.00	27 (19%) 3 5	84, 172, 387, 465	0
73	DM	130/312 (41%)	1.02	22 (16%) 4 7	47, 121, 305, 409	0
All	All	25728/30002 (85%)	0.88	4064 (15%) 5 9	20, 105, 353, 753	0

All (4064) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
29	B1	136	G	15.9
14	CM	31	PRO	11.8
42	BK	154	THR	11.4
21	CT	212	ALA	11.2
42	DK	152	HIS	10.8
2	AA	49	ASN	10.8
12	CK	35	CYS	10.7
43	DN	28	SER	10.5
21	AT	44	SER	10.5
7	CF	113	PRO	10.1
5	CD	104	ASN	10.1
37	DF	68	PRO	10.0
42	DK	154	THR	10.0
35	DD	67	THR	9.8
58	Bc	3	GLY	9.8
2	AA	157	ASP	9.8
41	DJ	113	GLN	9.7

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Mol	Chain	Res	Type	RSRZ
42	BK	135	GLY	9.6
61	Df	48	SER	9.6
11	CJ	143	ARG	9.5
34	BC	125	SER	9.5
21	AT	80	ALA	9.5
61	Df	56	PRO	9.4
73	DM	72	ASP	9.4
61	Df	34	SER	9.3
30	D2	39	C	9.3
37	BF	68	PRO	9.2
42	DK	136	ALA	9.1
36	BE	9	SER	9.0
21	CT	51	ASP	9.0
42	BK	152	HIS	8.9
42	BK	130	VAL	8.9
15	AN	85	ARG	8.8
29	B1	1644	C	8.7
5	CD	184	PHE	8.7
41	BJ	116	ARG	8.7
17	CP	40	SER	8.7
1	C1	1700	C	8.7
61	Df	22	GLN	8.7
10	CI	124	THR	8.6
15	AN	33	GLN	8.6
54	DY	48	TYR	8.6
7	CF	141	LYS	8.5
42	DK	130	VAL	8.5
39	BH	205	ALA	8.5
53	DX	44	GLY	8.5
57	Db	115	LEU	8.5
7	CF	116	ARG	8.5
12	CK	31	ASN	8.4
39	DH	210	ALA	8.4
21	CT	113	VAL	8.4
72	DL	103	ASN	8.4
61	Bf	34	SER	8.4
42	BK	136	ALA	8.4
29	D1	2418	G	8.3
36	DE	232	ASP	8.3
37	DF	147	ALA	8.3
54	DY	50	PRO	8.3
57	Bb	8	LYS	8.2

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Mol	Chain	Res	Type	RSRZ
21	AT	59	ARG	8.2
18	CQ	99	ALA	8.2
11	CJ	142	TYR	8.1
1	C1	1795	U	8.1
40	BI	171	ASP	8.1
10	CI	101	ALA	8.0
37	DF	28	GLN	8.0
43	BN	66	THR	7.9
8	CG	80	LEU	7.9
21	CT	213	SER	7.9
47	DR	152	HIS	7.9
21	AT	25	THR	7.9
1	A1	1795	U	7.9
29	D1	2726	C	7.9
36	DE	214	ASP	7.9
51	DV	56	ARG	7.9
42	BK	128	TYR	7.8
60	De	45	ARG	7.8
1	C1	1677	C	7.8
44	DO	123	GLN	7.7
54	BY	104	THR	7.7
33	BB	20	THR	7.7
21	CT	172	ALA	7.7
6	AE	101	VAL	7.7
2	CA	154	GLU	7.7
15	CN	11	GLU	7.7
47	DR	90	ASP	7.7
34	BC	45	SER	7.6
48	DS	160	GLU	7.6
42	BK	150	ASN	7.6
41	BJ	114	GLY	7.6
7	AF	113	PRO	7.6
29	B1	2494	A	7.6
48	BS	53	LYS	7.5
36	DE	216	GLU	7.5
45	DP	61	ALA	7.5
33	DB	152	SER	7.5
72	DL	33	GLY	7.5
59	Dd	40	PRO	7.5
41	DJ	120	GLY	7.5
7	CF	140	VAL	7.5
49	DT	101	CYS	7.5

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Mol	Chain	Res	Type	RSRZ
54	DY	29	PRO	7.5
37	BF	35	VAL	7.5
29	B1	2688	U	7.4
5	AD	161	ASP	7.4
42	BK	132	ASN	7.3
19	CR	34	GLU	7.3
33	BB	139	HIS	7.3
2	CA	213	GLN	7.3
32	DA	192	SER	7.3
37	DF	86	ALA	7.3
33	BB	65	ASP	7.3
7	CF	99	ARG	7.3
29	D1	2688	U	7.2
11	AJ	141	SER	7.2
41	BJ	196	PHE	7.2
54	BY	52	TYR	7.2
29	B1	119	U	7.2
40	BI	41	ILE	7.2
35	DD	96	GLY	7.2
21	CT	52	GLN	7.2
48	DS	163	ARG	7.2
44	BO	57	GLN	7.1
4	CC	159	HIS	7.1
52	BW	53	HIS	7.1
48	DS	159	ALA	7.1
7	AF	116	ARG	7.0
34	BC	115	LYS	7.0
36	DE	222	LEU	7.0
2	AA	156	VAL	7.0
54	BY	38	GLU	7.0
56	Ba	24	SER	7.0
42	DK	119	SER	7.0
44	DO	40	ALA	7.0
12	AK	10	LYS	7.0
2	CA	169	SER	6.9
41	DJ	8	CYS	6.9
29	D1	326	U	6.9
6	CE	174	ARG	6.9
5	AD	147	THR	6.9
1	C1	662	U	6.9
41	DJ	3	ARG	6.8
33	DB	20	THR	6.8

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Mol	Chain	Res	Type	RSRZ
47	DR	149	ALA	6.8
2	CA	101	ARG	6.8
36	BE	273	ARG	6.8
29	B1	2418	G	6.8
10	CI	53	PRO	6.8
61	Bf	10	THR	6.8
61	Df	21	THR	6.8
21	AT	96	THR	6.7
5	AD	104	ASN	6.7
11	CJ	20	ALA	6.7
54	BY	48	TYR	6.7
16	CO	62	VAL	6.7
57	Db	116	GLY	6.7
18	AQ	78	ILE	6.7
50	BU	9	THR	6.7
47	BR	153	PHE	6.7
35	DD	66	GLY	6.7
29	D1	2473	C	6.7
33	DB	7	ASN	6.7
19	AR	20	GLY	6.6
47	DR	95	GLU	6.6
47	DR	140	LEU	6.6
41	BJ	175	ASN	6.6
3	AB	159	THR	6.6
48	DS	165	LYS	6.6
58	Dc	10	ARG	6.6
6	CE	22	SER	6.6
34	DC	179	ALA	6.6
45	DP	198	GLY	6.6
61	Bf	12	CYS	6.6
4	AC	187	LYS	6.6
36	BE	40	HIS	6.6
29	D1	1644	C	6.6
21	CT	50	ASP	6.6
1	A1	1255	G	6.6
37	DF	36	PRO	6.6
15	AN	11	GLU	6.5
42	DK	62	ASN	6.5
54	BY	23	GLY	6.5
3	CB	238	SER	6.5
61	Bf	56	PRO	6.5
33	BB	140	ASN	6.5

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Mol	Chain	Res	Type	RSRZ
35	BD	72	ALA	6.5
61	Df	53	GLN	6.5
35	DD	194	TYR	6.4
47	BR	90	ASP	6.4
42	BK	159	THR	6.4
52	DW	88	MET	6.4
48	DS	158	GLU	6.4
5	CD	183	ALA	6.4
29	D1	437	G	6.4
37	BF	115	GLU	6.4
61	Bf	59	HIS	6.4
37	DF	153	PRO	6.4
12	CK	28	PHE	6.4
61	Df	25	VAL	6.4
39	DH	213	LYS	6.3
46	BQ	11	PRO	6.3
1	C1	1676	U	6.3
42	BK	27	GLY	6.3
2	AA	127	ARG	6.3
16	CO	19	LYS	6.3
43	BN	41	GLN	6.3
36	BE	178	ASN	6.3
54	BY	106	ALA	6.3
48	DS	173	ARG	6.3
49	DT	21	LYS	6.2
6	AE	22	SER	6.2
33	BB	215	ASN	6.2
54	BY	108	GLY	6.2
42	DK	41	SER	6.2
1	A1	69	G	6.2
36	BE	214	ASP	6.2
59	Bd	54	LYS	6.2
38	BG	215	GLY	6.2
58	Dc	3	GLY	6.2
15	AN	118	VAL	6.2
42	DK	145	LYS	6.2
2	CA	172	LEU	6.2
18	CQ	76	ALA	6.2
47	BR	155	MET	6.2
39	BH	189	LEU	6.2
1	C1	1699	G	6.2
35	DD	263	GLY	6.2

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Mol	Chain	Res	Type	RSRZ
7	CF	100	TYR	6.2
10	AI	9	LYS	6.2
20	AS	43	PHE	6.2
54	DY	108	GLY	6.2
36	BE	176	SER	6.1
50	DU	43	GLY	6.1
9	CH	86	THR	6.1
21	CT	203	THR	6.1
15	AN	51	VAL	6.1
42	BK	79	ILE	6.1
41	DJ	5	PRO	6.1
44	BO	150	TRP	6.1
1	C1	1800	A	6.1
17	AP	28	ASN	6.1
36	DE	40	HIS	6.1
54	BY	79	TRP	6.1
3	AB	94	GLN	6.1
36	DE	220	SER	6.1
29	B1	137	G	6.1
37	BF	83	TYR	6.1
13	AL	17	LEU	6.1
4	AC	191	ASP	6.1
54	DY	54	GLY	6.0
44	BO	59	PHE	6.0
33	DB	24	GLN	6.0
41	DJ	101	LYS	6.0
61	Df	41	ARG	6.0
12	AK	36	ASP	6.0
42	DK	132	ASN	6.0
35	DD	69	ARG	6.0
48	DS	166	ASN	6.0
55	DZ	11	ASN	6.0
35	DD	85	SER	6.0
7	AF	94	ILE	5.9
39	DH	209	ALA	5.9
47	DR	58	ASN	5.9
54	DY	62	HIS	5.9
42	DK	125	MET	5.9
32	BA	197	ASN	5.9
35	DD	83	GLY	5.9
40	BI	190	ASP	5.9
54	BY	51	GLY	5.9

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Mol	Chain	Res	Type	RSRZ
12	CK	22	PRO	5.9
35	BD	82	THR	5.9
52	BW	122	ALA	5.9
36	BE	268	GLU	5.9
33	BB	201	GLY	5.9
33	DB	86	GLN	5.9
29	B1	2402	A	5.9
45	DP	125	ARG	5.9
3	AB	156	THR	5.8
13	CL	97	ASP	5.8
43	BN	69	THR	5.8
59	Dd	54	LYS	5.8
52	BW	91	ASN	5.8
29	D1	3273	A	5.8
34	BC	243	HIS	5.8
48	DS	164	LEU	5.8
60	De	36	ARG	5.8
11	AJ	140	LYS	5.8
6	AE	169	PRO	5.8
72	DL	102	GLY	5.8
21	AT	207	ASP	5.8
29	B1	2726	C	5.8
17	AP	27	ASN	5.8
36	DE	230	ASP	5.7
34	DC	114	VAL	5.7
13	CL	73	MET	5.7
44	DO	110	ALA	5.7
29	B1	1199	C	5.7
21	CT	49	GLY	5.7
14	AM	68	ARG	5.7
61	Bf	57	VAL	5.7
2	AA	28	ASN	5.7
35	BD	83	GLY	5.7
35	BD	51	ALA	5.7
36	DE	219	PHE	5.7
9	CH	112	ILE	5.7
54	BY	89	GLN	5.7
41	BJ	117	GLY	5.7
43	DN	52	GLY	5.7
38	BG	155	LYS	5.7
16	AO	52	TYR	5.7
61	Df	54	THR	5.7

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Mol	Chain	Res	Type	RSRZ
7	CF	118	GLN	5.7
1	A1	1	U	5.6
29	B1	326	U	5.6
12	AK	35	CYS	5.6
15	AN	81	THR	5.6
32	BA	188	ASN	5.6
29	D1	847	A	5.6
32	DA	49	PHE	5.6
1	C1	137	U	5.6
46	BQ	95	LEU	5.6
15	AN	76	SER	5.6
73	DM	193	ASN	5.6
44	DO	105	ARG	5.6
2	AA	152	PRO	5.6
10	AI	53	PRO	5.6
44	BO	94	TYR	5.6
42	BK	149	GLY	5.6
55	BZ	84	LEU	5.6
10	CI	128	HIS	5.6
40	BI	184	LYS	5.6
42	DK	146	GLY	5.6
29	B1	133	U	5.6
9	AH	17	ALA	5.5
42	BK	148	VAL	5.5
34	DC	154	TYR	5.5
44	DO	179	LYS	5.5
59	Bd	73	ARG	5.5
9	AH	117	ASP	5.5
32	DA	193	LEU	5.5
33	BB	82	VAL	5.5
13	CL	59	GLY	5.5
52	DW	46	TYR	5.5
29	B1	3314	A	5.5
73	DM	74	GLU	5.5
6	CE	121	SER	5.5
14	AM	71	VAL	5.5
48	DS	161	ALA	5.5
39	DH	199	ALA	5.5
33	DB	118	GLU	5.5
47	DR	41	ASP	5.5
34	DC	133	TYR	5.5
51	BV	19	THR	5.5

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Mol	Chain	Res	Type	RSRZ
8	CG	53	LEU	5.4
1	C1	1192	C	5.4
37	DF	164	SER	5.4
48	DS	169	ALA	5.4
19	CR	36	THR	5.4
33	BB	29	LEU	5.4
39	DH	127	PRO	5.4
29	B1	1027	A	5.4
14	CM	37	VAL	5.4
3	AB	93	GLY	5.4
4	CC	15	GLY	5.4
62	Bg	43	GLY	5.4
53	DX	62	SER	5.4
14	AM	28	LEU	5.4
15	AN	63	LEU	5.4
44	BO	15	GLN	5.4
54	DY	117	ARG	5.4
41	BJ	170	LYS	5.4
2	CA	145	ALA	5.4
29	B1	285	A	5.4
1	A1	379	U	5.4
40	BI	90	MET	5.4
33	BB	138	GLY	5.4
44	DO	3	ALA	5.4
47	DR	103	ALA	5.4
6	AE	110	GLN	5.4
43	DN	78	THR	5.3
54	BY	54	GLY	5.4
32	DA	194	LEU	5.3
4	AC	153	ALA	5.3
33	DB	121	GLY	5.3
42	DK	42	GLY	5.3
5	CD	185	ARG	5.3
6	AE	23	ARG	5.3
37	BF	78	ARG	5.3
18	AQ	54	VAL	5.3
50	BU	135	VAL	5.3
2	AA	30	GLN	5.3
59	Bd	30	GLN	5.3
40	BI	148	GLY	5.3
55	DZ	88	GLY	5.3
34	BC	1	MET	5.3

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Mol	Chain	Res	Type	RSRZ
41	BJ	40	LYS	5.3
34	BC	328	ILE	5.3
39	DH	207	ASP	5.3
14	CM	3	GLY	5.3
35	DD	174	ALA	5.3
35	DD	198	ARG	5.3
62	Bg	59	CYS	5.3
20	CS	44	ARG	5.3
21	AT	79	TYR	5.3
17	AP	40	SER	5.3
33	DB	19	HIS	5.3
37	DF	57	HIS	5.3
29	B1	1198	C	5.3
33	BB	25	GLY	5.3
34	DC	1	MET	5.3
34	DC	63	PRO	5.3
54	BY	24	LYS	5.3
44	BO	139	HIS	5.3
33	DB	153	GLY	5.2
57	Db	8	LYS	5.2
13	AL	73	MET	5.2
44	DO	41	ARG	5.2
56	Ba	78	LYS	5.2
15	AN	62	VAL	5.2
35	DD	261	VAL	5.2
52	DW	64	GLU	5.2
16	CO	84	GLY	5.2
41	BJ	120	GLY	5.2
43	BN	23	ILE	5.2
19	CR	35	ASP	5.2
21	AT	46	LYS	5.2
44	DO	153	ASP	5.2
31	B3	86	U	5.2
2	CA	173	ILE	5.2
45	DP	62	THR	5.2
34	DC	115	LYS	5.2
35	BD	69	ARG	5.2
47	BR	152	HIS	5.2
39	DH	236	GLY	5.2
50	BU	76	ALA	5.2
29	B1	3390	G	5.2
54	DY	104	THR	5.2

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Mol	Chain	Res	Type	RSRZ
6	AE	21	SER	5.2
15	CN	20	ILE	5.2
1	A1	1794	A	5.1
41	DJ	10	ARG	5.1
1	C1	1632	C	5.1
13	AL	74	GLN	5.1
1	A1	1701	A	5.1
14	CM	69	LYS	5.1
47	BR	72	LYS	5.1
1	C1	1201	G	5.1
48	DS	172	ARG	5.1
10	CI	100	LYS	5.1
36	BE	57	ASN	5.1
37	DF	61	ASN	5.1
2	AA	154	GLU	5.1
39	DH	202	GLU	5.1
2	AA	201	LEU	5.1
4	AC	142	LEU	5.1
12	CK	36	ASP	5.1
29	D1	175	C	5.1
53	DX	66	GLN	5.1
5	AD	152	GLY	5.1
58	Dc	49	LYS	5.1
20	AS	39	CYS	5.1
73	DM	195	GLN	5.1
29	D1	3353	G	5.1
21	AT	55	GLY	5.1
11	CJ	121	SER	5.1
32	BA	192	SER	5.1
46	DQ	6	ALA	5.1
35	BD	66	GLY	5.1
32	BA	36	VAL	5.1
61	Df	46	LYS	5.0
36	DE	245	GLU	5.0
43	DN	66	THR	5.0
29	D1	72	C	5.0
9	CH	105	LEU	5.0
34	BC	360	ASP	5.0
29	D1	2451	G	5.0
3	AB	130	ILE	5.0
36	BE	200	PHE	5.0
1	A1	1240	U	5.0

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Mol	Chain	Res	Type	RSRZ
8	AG	104	ARG	5.0
33	DB	216	HIS	5.0
39	DH	157	VAL	5.0
36	BE	10	SER	5.0
57	Bb	13	HIS	5.0
3	AB	92	ALA	5.0
41	DJ	11	TYR	5.0
44	BO	4	TYR	5.0
57	Db	21	HIS	5.0
6	AE	105	LEU	5.0
38	BG	235	PHE	5.0
41	DJ	175	ASN	5.0
5	CD	63	GLN	5.0
52	DW	120	LYS	5.0
18	CQ	50	ILE	5.0
33	DB	187	HIS	5.0
40	DI	49	ASN	5.0
38	DG	161	VAL	5.0
34	BC	128	LYS	5.0
9	CH	11	SER	4.9
29	D1	2402	A	4.9
49	DT	38	ASP	4.9
43	DN	41	GLN	4.9
52	DW	78	ASP	4.9
54	BY	85	ASP	4.9
4	CC	143	ARG	4.9
4	CC	73	VAL	4.9
9	AH	10	ASN	4.9
3	CB	50	ILE	4.9
9	AH	80	HIS	4.9
17	AP	48	HIS	4.9
54	BY	16	SER	4.9
36	DE	38	THR	4.9
53	DX	45	ILE	4.9
33	DB	62	VAL	4.9
53	DX	53	ASP	4.9
10	CI	129	GLY	4.9
60	De	32	ASN	4.9
61	Bf	11	TYR	4.9
73	DM	71	PRO	4.9
34	BC	7	GLU	4.9
61	Df	81	ALA	4.9

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Mol	Chain	Res	Type	RSRZ
33	BB	160	SER	4.9
11	AJ	41	PRO	4.9
14	CM	9	VAL	4.9
8	CG	54	LEU	4.9
33	BB	19	HIS	4.9
41	BJ	45	GLU	4.9
33	BB	232	GLY	4.9
56	Da	61	LYS	4.9
56	Ba	71	LEU	4.9
17	CP	55	GLU	4.8
36	BE	295	GLY	4.8
41	DJ	114	GLY	4.8
4	CC	191	ASP	4.8
45	DP	199	TYR	4.8
48	BS	19	LYS	4.8
33	DB	96	LEU	4.8
37	DF	140	VAL	4.8
1	C1	272	U	4.8
9	AH	39	ILE	4.8
3	CB	175	GLY	4.8
73	DM	6	GLU	4.8
73	DM	69	ASP	4.8
34	BC	337	THR	4.8
51	DV	24	GLY	4.8
5	CD	163	SER	4.8
49	BT	101	CYS	4.8
51	BV	42	GLN	4.8
33	DB	53	GLY	4.8
46	DQ	116	HIS	4.8
36	BE	79	TYR	4.8
29	B1	3353	G	4.8
53	DX	102	SER	4.8
59	Dd	30	GLN	4.8
19	AR	39	THR	4.8
54	DY	38	GLU	4.8
2	AA	158	VAL	4.8
30	B2	39	C	4.8
10	AI	117	GLY	4.8
29	D1	2403	G	4.8
15	CN	95	ALA	4.8
21	AT	66	HIS	4.8
33	DB	97	ASN	4.8

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Mol	Chain	Res	Type	RSRZ
21	CT	214	ALA	4.7
29	B1	2397	A	4.7
9	AH	15	GLY	4.7
52	DW	106	ASP	4.7
57	Db	39	ASP	4.7
59	Dd	65	ARG	4.7
8	CG	46	THR	4.7
4	CC	20	GLU	4.7
41	DJ	115	MET	4.7
41	DJ	195	ALA	4.7
46	BQ	77	GLY	4.7
50	BU	85	TRP	4.7
48	DS	49	THR	4.7
4	AC	170	THR	4.7
33	DB	218	HIS	4.7
1	A1	1631	A	4.7
11	AJ	143	ARG	4.7
61	Df	52	GLY	4.7
48	BS	92	GLN	4.7
5	AD	162	VAL	4.7
44	BO	127	TYR	4.7
8	CG	140	LYS	4.7
5	CD	148	ARG	4.7
41	DJ	204	GLY	4.7
1	A1	1200	G	4.7
29	B1	781	G	4.7
11	AJ	132	LYS	4.7
54	BY	109	TYR	4.7
29	B1	682	U	4.7
19	CR	28	VAL	4.7
38	DG	208	SER	4.7
48	DS	168	ALA	4.7
53	DX	58	VAL	4.6
21	AT	140	CYS	4.6
29	D1	718	G	4.6
45	BP	58	LEU	4.6
6	CE	171	ARG	4.6
1	A1	369	A	4.6
14	CM	112	GLY	4.6
21	CT	310	ILE	4.6
6	AE	100	LYS	4.6
29	D1	1555	U	4.6

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Mol	Chain	Res	Type	RSRZ
34	BC	363	SER	4.6
35	BD	73	ARG	4.6
48	DS	13	SER	4.6
12	CK	52	GLY	4.6
36	DE	210	GLU	4.6
41	DJ	117	GLY	4.6
61	Df	7	THR	4.6
3	CB	150	GLN	4.6
6	AE	38	ASN	4.6
1	A1	1720	G	4.6
33	BB	52	SER	4.6
35	DD	64	SER	4.6
42	BK	161	SER	4.6
52	BW	139	ILE	4.6
35	DD	63	GLU	4.6
35	BD	187	LEU	4.6
5	AD	103	ASN	4.6
21	AT	69	GLN	4.6
17	AP	67	ALA	4.6
34	BC	31	ALA	4.6
15	AN	13	GLU	4.6
18	CQ	74	SER	4.6
37	DF	115	GLU	4.6
47	DR	153	PHE	4.6
56	Ba	76	SER	4.6
38	DG	215	GLY	4.6
43	DN	25	LYS	4.6
16	AO	76	SER	4.6
20	CS	26	SER	4.6
1	A1	191	C	4.6
44	BO	145	ASP	4.6
13	CL	20	THR	4.6
11	CJ	100	GLN	4.6
21	AT	45	TRP	4.6
1	C1	1150	G	4.6
34	DC	170	PRO	4.6
33	DB	117	GLU	4.6
8	CG	67	THR	4.5
42	DK	147	THR	4.5
33	DB	22	LEU	4.5
34	BC	23	ALA	4.5
1	A1	126	A	4.5

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Mol	Chain	Res	Type	RSRZ
45	BP	125	ARG	4.5
15	CN	112	VAL	4.5
33	BB	142	ASP	4.5
37	DF	145	LEU	4.5
39	BH	198	ALA	4.5
42	BK	28	ASP	4.5
72	DL	137	GLN	4.5
32	BA	190	PHE	4.5
29	B1	3287	U	4.5
29	B1	2403	G	4.5
29	D1	137	G	4.5
44	BO	178	HIS	4.5
44	DO	178	HIS	4.5
48	BS	151	ARG	4.5
20	AS	34	TYR	4.5
37	DF	83	TYR	4.5
7	CF	144	ALA	4.5
32	DA	158	GLN	4.5
35	DD	5	GLN	4.5
1	A1	503	G	4.5
1	A1	70	C	4.5
10	CI	9	LYS	4.5
34	BC	114	VAL	4.5
36	BE	39	GLN	4.5
11	CJ	131	GLY	4.5
39	DH	182	GLY	4.5
10	CI	51	SER	4.5
44	DO	125	SER	4.5
43	BN	48	GLY	4.5
5	AD	185	ARG	4.5
34	DC	47	LEU	4.5
42	BK	60	ARG	4.5
45	DP	182	ASN	4.5
1	C1	1	U	4.5
36	BE	294	ALA	4.5
49	BT	121	ALA	4.5
48	BS	76	SER	4.5
3	AB	144	TRP	4.5
36	DE	149	GLY	4.5
37	BF	36	PRO	4.5
9	CH	52	ARG	4.5
21	AT	130	THR	4.5

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Mol	Chain	Res	Type	RSRZ
33	DB	60	LYS	4.5
40	DI	171	ASP	4.5
43	BN	90	VAL	4.5
2	AA	21	ASN	4.5
1	C1	695	U	4.5
11	CJ	104	GLU	4.5
14	CM	29	GLU	4.5
44	DO	81	TYR	4.5
33	DB	173	GLY	4.5
29	B1	2404	A	4.4
29	D1	2404	A	4.4
48	BS	90	PRO	4.4
37	BF	139	LYS	4.4
44	DO	63	ARG	4.4
35	BD	71	VAL	4.4
1	C1	1796	C	4.4
42	DK	102	PHE	4.4
1	C1	823	G	4.4
38	DG	78	GLU	4.4
14	AM	26	GLY	4.4
32	BA	37	GLY	4.4
14	CM	129	GLN	4.4
7	CF	86	ILE	4.4
16	AO	61	ILE	4.4
36	BE	122	VAL	4.4
43	DN	63	VAL	4.4
44	DO	115	VAL	4.4
21	CT	177	MET	4.4
33	BB	162	ALA	4.4
47	BR	149	ALA	4.4
46	DQ	55	GLN	4.4
48	BS	132	PHE	4.4
34	DC	3	HIS	4.4
13	CL	141	THR	4.4
33	BB	199	THR	4.4
37	BF	119	ALA	4.4
42	DK	128	TYR	4.4
49	DT	54	HIS	4.4
49	DT	67	VAL	4.4
34	BC	327	CYS	4.4
1	A1	1096	C	4.4
48	BS	13	SER	4.4

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Mol	Chain	Res	Type	RSRZ
43	DN	29	ALA	4.4
72	DL	106	LEU	4.4
9	AH	124	ASP	4.4
5	CD	152	GLY	4.4
33	BB	74	GLU	4.4
2	CA	152	PRO	4.4
29	B1	747	A	4.4
29	D1	25	U	4.4
6	AE	39	LYS	4.4
13	CL	86	LEU	4.4
29	B1	132	C	4.4
10	CI	54	ALA	4.4
62	Bg	40	SER	4.4
3	CB	146	THR	4.4
35	BD	96	GLY	4.4
36	BE	184	ASP	4.4
43	DN	48	GLY	4.4
1	C1	453	U	4.4
8	AG	52	VAL	4.4
48	BS	3	ASN	4.4
61	Df	82	GLN	4.4
35	BD	214	GLY	4.3
33	BB	31	THR	4.3
58	Dc	1	MET	4.3
1	C1	62	A	4.3
45	DP	70	PRO	4.3
42	BK	151	SER	4.3
13	AL	70	VAL	4.3
14	CM	121	GLY	4.3
3	CB	96	THR	4.3
34	DC	304	THR	4.3
36	DE	223	PHE	4.3
40	BI	143	GLU	4.3
48	DS	157	GLU	4.3
2	CA	218	ALA	4.3
35	DD	92	ASN	4.3
1	A1	137	U	4.3
15	AN	19	ILE	4.3
34	BC	21	ARG	4.3
59	Dd	24	ARG	4.3
32	DA	162	VAL	4.3
34	DC	87	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
37	DF	37	GLY	4.3
42	BK	125	MET	4.3
11	CJ	124	PRO	4.3
57	Bb	21	HIS	4.3
21	CT	277	GLU	4.3
41	BJ	189	GLU	4.3
48	DS	19	LYS	4.3
1	A1	522	U	4.3
1	A1	1796	C	4.3
36	BE	134	ALA	4.3
46	DQ	132	ALA	4.3
29	D1	119	U	4.3
3	CB	165	VAL	4.3
10	AI	128	HIS	4.3
7	AF	134	THR	4.3
56	Ba	11	GLU	4.3
12	AK	17	ILE	4.3
48	DS	176	ARG	4.3
46	DQ	130	TYR	4.3
47	DR	62	VAL	4.3
34	DC	185	GLY	4.3
58	Bc	1	MET	4.3
13	AL	18	LEU	4.3
33	DB	29	LEU	4.3
60	Be	29	LEU	4.3
29	D1	2494	A	4.3
1	C1	1285	U	4.3
33	BB	200	ARG	4.3
35	BD	70	ALA	4.3
1	C1	1200	G	4.3
54	DY	64	GLN	4.3
5	CD	42	LEU	4.3
1	A1	453	U	4.3
34	BC	3	HIS	4.3
73	DM	21	GLU	4.3
19	CR	29	ARG	4.3
34	DC	23	ALA	4.3
48	BS	23	TRP	4.3
19	CR	30	VAL	4.3
36	BE	144	VAL	4.3
15	AN	84	MET	4.3
29	D1	1198	C	4.3

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Mol	Chain	Res	Type	RSRZ
6	AE	97	LEU	4.3
44	DO	23	GLN	4.3
34	DC	128	LYS	4.3
33	BB	218	HIS	4.2
19	CR	50	GLU	4.2
3	AB	121	VAL	4.2
52	BW	112	THR	4.2
21	AT	93	ASP	4.2
29	D1	3271	G	4.2
33	DB	124	GLY	4.2
72	DL	141	CYS	4.2
41	BJ	208	ASN	4.2
47	DR	78	ASN	4.2
30	B2	11	A	4.2
2	AA	47	VAL	4.2
3	AB	60	SER	4.2
46	BQ	94	LEU	4.2
52	BW	60	TYR	4.2
2	AA	33	GLN	4.2
29	B1	118	U	4.2
14	CM	16	ASN	4.2
43	BN	128	ARG	4.2
7	CF	117	VAL	4.2
11	CJ	18	ALA	4.2
44	BO	134	LEU	4.2
47	DR	120	GLU	4.2
49	BT	51	GLY	4.2
1	C1	105	A	4.2
34	DC	178	LEU	4.2
44	DO	106	VAL	4.2
4	AC	119	ALA	4.2
21	CT	284	ALA	4.2
62	Dg	59	CYS	4.2
49	BT	98	HIS	4.2
15	AN	10	GLU	4.2
72	DL	120	SER	4.2
37	BF	28	GLN	4.2
44	DO	165	THR	4.2
1	C1	69	G	4.2
29	D1	1573	G	4.2
59	Bd	24	ARG	4.2
29	D1	1643	A	4.2

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Mol	Chain	Res	Type	RSRZ
33	BB	143	GLU	4.2
11	AJ	131	GLY	4.2
43	BN	28	SER	4.2
50	BU	111	GLY	4.2
7	AF	142	VAL	4.2
12	CK	49	LYS	4.2
20	AS	16	LYS	4.2
41	BJ	101	LYS	4.2
62	Bg	41	PHE	4.2
62	Dg	77	ALA	4.2
34	BC	147	GLU	4.2
34	BC	253	GLY	4.2
52	DW	79	GLY	4.2
6	AE	175	ARG	4.2
61	Bf	41	ARG	4.2
42	DK	8	PRO	4.2
29	B1	981	U	4.1
2	CA	110	TYR	4.1
10	CI	97	TYR	4.1
29	D1	102	C	4.1
35	DD	79	GLY	4.1
56	Da	11	GLU	4.1
72	DL	122	GLY	4.1
48	DS	62	ARG	4.1
36	BE	187	THR	4.1
2	AA	218	ALA	4.1
55	BZ	37	GLY	4.1
10	CI	82	ASN	4.1
44	BO	181	ASN	4.1
37	DF	46	ARG	4.1
42	DK	137	ARG	4.1
62	Dg	49	ARG	4.1
37	DF	35	VAL	4.1
50	BU	91	VAL	4.1
10	CI	30	THR	4.1
37	DF	119	ALA	4.1
29	D1	682	U	4.1
9	CH	15	GLY	4.1
35	BD	224	GLY	4.1
41	DJ	123	HIS	4.1
3	CB	228	ASN	4.1
11	CJ	95	LYS	4.1

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Mol	Chain	Res	Type	RSRZ
33	BB	109	GLU	4.1
49	DT	83	ARG	4.1
43	BN	21	VAL	4.1
47	DR	23	ASN	4.1
17	AP	43	PHE	4.1
50	BU	95	PHE	4.1
31	B3	77	A	4.1
32	DA	139	SER	4.1
33	BB	127	ALA	4.1
59	Bd	44	THR	4.1
2	AA	172	LEU	4.1
33	BB	234	LYS	4.1
35	BD	188	ARG	4.1
58	Dc	4	VAL	4.1
17	AP	61	SER	4.1
17	AP	66	SER	4.1
37	BF	164	SER	4.1
39	DH	198	ALA	4.1
46	BQ	6	ALA	4.1
46	BQ	65	SER	4.1
29	D1	136	G	4.1
34	BC	174	LYS	4.1
62	Dg	19	GLY	4.1
44	DO	31	ARG	4.1
62	Dg	64	VAL	4.1
52	BW	80	ASN	4.1
29	B1	2872	A	4.1
34	BC	173	GLN	4.1
40	BI	137	SER	4.1
54	DY	78	LEU	4.1
61	Df	32	LYS	4.1
3	CB	163	GLY	4.1
16	AO	84	GLY	4.1
29	B1	2871	G	4.1
33	BB	62	VAL	4.1
17	AP	141	GLU	4.1
45	BP	138	LEU	4.1
52	BW	128	ALA	4.1
61	Bf	30	ALA	4.1
12	CK	29	GLN	4.1
2	AA	196	SER	4.1
15	CN	120	SER	4.1

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Mol	Chain	Res	Type	RSRZ
39	DH	193	LYS	4.1
8	CG	130	ARG	4.1
16	CO	52	TYR	4.1
29	B1	1349	G	4.1
53	DX	100	HIS	4.0
36	BE	245	GLU	4.0
6	CE	36	LEU	4.0
44	DO	57	GLN	4.0
61	Df	87	ARG	4.0
37	DF	45	GLY	4.0
44	DO	127	TYR	4.0
61	Bf	91	PHE	4.0
1	C1	1096	C	4.0
10	CI	15	HIS	4.0
11	CJ	74	HIS	4.0
13	AL	131	LEU	4.0
12	CK	44	LYS	4.0
36	DE	231	ILE	4.0
57	Db	19	ARG	4.0
5	AD	105	GLY	4.0
39	DH	140	VAL	4.0
47	DR	119	GLY	4.0
36	BE	242	SER	4.0
45	BP	180	SER	4.0
2	AA	48	ILE	4.0
15	AN	86	ILE	4.0
33	BB	235	ALA	4.0
29	B1	1195	A	4.0
33	BB	190	ARG	4.0
36	BE	53	VAL	4.0
3	AB	114	GLY	4.0
5	CD	61	TYR	4.0
32	DA	197	ASN	4.0
15	CN	70	THR	4.0
62	Bg	73	THR	4.0
15	AN	119	ALA	4.0
40	BI	64	HIS	4.0
29	B1	1643	A	4.0
32	DA	43	PRO	4.0
33	BB	73	GLU	4.0
53	DX	67	GLU	4.0
55	BZ	52	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
29	D1	2873	U	4.0
34	DC	309	GLY	4.0
41	BJ	194	GLY	4.0
43	DN	27	GLN	4.0
50	DU	65	GLY	4.0
44	BO	182	ASN	4.0
59	Dd	47	TYR	4.0
52	DW	61	LYS	4.0
56	Da	24	SER	4.0
57	Db	62	LYS	4.0
1	C1	1435	G	4.0
48	DS	174	ALA	4.0
54	DY	32	ARG	4.0
8	CG	44	GLY	4.0
2	AA	202	TYR	4.0
21	CT	69	GLN	4.0
29	B1	3360	C	4.0
21	CT	124	SER	4.0
13	CL	123	ARG	4.0
3	CB	237	VAL	4.0
42	DK	157	GLU	4.0
39	BH	235	GLY	4.0
59	Dd	60	GLY	4.0
39	DH	147	LYS	4.0
44	BO	133	ILE	4.0
29	D1	172	G	4.0
54	DY	53	PHE	4.0
36	BE	210	GLU	3.9
9	CH	87	GLY	3.9
62	Bg	19	GLY	3.9
37	DF	117	LYS	3.9
43	BN	25	LYS	3.9
34	BC	22	ALA	3.9
2	CA	214	VAL	3.9
5	CD	96	SER	3.9
33	BB	202	VAL	3.9
36	BE	62	CYS	3.9
55	BZ	67	VAL	3.9
21	AT	103	PHE	3.9
33	BB	124	GLY	3.9
48	DS	152	GLU	3.9
44	BO	72	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
8	AG	128	TYR	3.9
10	AI	104	GLN	3.9
57	Bb	38	ILE	3.9
10	AI	54	ALA	3.9
36	DE	178	ASN	3.9
36	DE	9	SER	3.9
9	AH	29	HIS	3.9
37	BF	57	HIS	3.9
1	C1	1364	G	3.9
73	DM	83	TYR	3.9
8	CG	110	ASP	3.9
35	DD	188	ARG	3.9
34	BC	53	MET	3.9
21	AT	158	PRO	3.9
29	B1	2462	A	3.9
36	DE	255	PRO	3.9
50	BU	53	SER	3.9
29	D1	781	G	3.9
36	BE	25	GLU	3.9
34	DC	181	ILE	3.9
1	A1	402	C	3.9
29	B1	765	C	3.9
35	DD	73	ARG	3.9
36	DE	147	ASP	3.9
49	BT	24	ALA	3.9
13	AL	84	TRP	3.9
3	AB	163	GLY	3.9
47	BR	78	ASN	3.9
21	AT	115	ILE	3.9
21	CT	170	ILE	3.9
44	DO	16	SER	3.9
29	B1	2528	G	3.9
35	BD	54	GLU	3.9
12	AK	54	THR	3.9
36	DE	187	THR	3.9
54	BY	80	THR	3.9
29	D1	1017	C	3.9
48	BS	147	ALA	3.9
4	CC	141	LYS	3.9
21	AT	85	TRP	3.9
34	DC	112	ASP	3.9
44	BO	179	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
19	AR	17	GLY	3.9
40	BI	178	GLY	3.9
44	BO	175	ASN	3.9
4	CC	34	TYR	3.9
49	BT	22	HIS	3.9
16	AO	4	SER	3.9
34	DC	147	GLU	3.9
54	BY	95	SER	3.9
29	D1	3216	G	3.9
36	BE	18	THR	3.9
7	AF	96	LYS	3.9
18	CQ	46	LYS	3.9
34	DC	124	LYS	3.9
1	A1	1676	U	3.9
31	D3	113	U	3.9
5	CD	200	ASN	3.9
21	AT	17	ASN	3.9
56	Da	15	ASN	3.9
46	DQ	8	SER	3.9
46	DQ	66	SER	3.9
48	DS	155	LEU	3.9
10	AI	56	PHE	3.8
59	Bd	29	VAL	3.9
36	DE	11	ALA	3.8
37	DF	89	THR	3.8
41	BJ	115	MET	3.8
44	DO	39	ALA	3.8
3	CB	87	GLN	3.8
29	D1	2817	A	3.8
39	BH	129	PRO	3.8
15	AN	65	ILE	3.8
1	C1	694	U	3.8
1	C1	1378	U	3.8
15	CN	54	GLY	3.8
32	BA	88	ASP	3.8
56	Da	75	ILE	3.8
10	AI	15	HIS	3.8
48	BS	89	LEU	3.8
42	BK	63	GLU	3.8
13	CL	117	LYS	3.8
15	CN	77	LYS	3.8
35	DD	133	SER	3.8

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Mol	Chain	Res	Type	RSRZ
49	BT	52	MET	3.8
54	DY	93	SER	3.8
3	AB	96	THR	3.8
1	C1	1798	U	3.8
29	D1	2978	U	3.8
35	DD	68	GLY	3.8
11	CJ	22	VAL	3.8
54	DY	52	TYR	3.8
61	Df	2	VAL	3.8
3	CB	212	LYS	3.8
17	CP	39	LYS	3.8
42	BK	62	ASN	3.8
59	Bd	71	SER	3.8
2	AA	131	GLN	3.8
36	BE	274	GLN	3.8
3	AB	202	GLY	3.8
6	CE	97	LEU	3.8
43	DN	34	ALA	3.8
44	DO	34	ASN	3.8
1	C1	284	G	3.8
34	DC	125	SER	3.8
40	BI	144	ILE	3.8
38	BG	179	LEU	3.8
54	DY	119	PRO	3.8
3	CB	140	ARG	3.8
44	DO	64	VAL	3.8
17	CP	71	CYS	3.8
4	CC	28	GLU	3.8
30	B2	10	C	3.8
42	BK	15	GLU	3.8
35	DD	45	ASN	3.8
1	C1	1114	G	3.8
2	AA	188	LEU	3.8
13	AL	32	LEU	3.8
5	CD	67	PRO	3.8
29	B1	2401	A	3.8
33	DB	138	GLY	3.8
33	DB	199	THR	3.8
53	BX	92	GLY	3.8
54	BY	37	GLY	3.8
59	Bd	2	GLY	3.8
35	BD	203	ARG	3.8

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Mol	Chain	Res	Type	RSRZ
36	BE	145	PHE	3.8
37	BF	90	LYS	3.8
38	BG	161	VAL	3.8
29	B1	262	U	3.8
29	B1	1455	U	3.8
60	De	20	ASN	3.8
1	A1	557	G	3.8
29	D1	2450	G	3.8
31	B3	75	G	3.8
44	DO	107	GLY	3.8
60	Be	28	ARG	3.8
73	DM	68	SER	3.8
33	DB	243	THR	3.8
36	DE	135	VAL	3.8
61	Bf	60	LYS	3.8
39	BH	134	TYR	3.8
29	D1	252	U	3.8
9	CH	9	ASP	3.8
9	CH	102	LEU	3.8
36	DE	189	GLU	3.8
17	AP	119	GLY	3.7
42	BK	73	GLY	3.7
53	DX	61	GLY	3.7
62	Bg	17	ARG	3.8
9	CH	55	SER	3.7
29	B1	845	G	3.7
37	BF	86	ALA	3.7
62	Bg	92	ALA	3.7
33	DB	139	HIS	3.7
15	AN	46	GLU	3.7
34	DC	213	GLU	3.7
55	DZ	8	GLU	3.7
11	CJ	27	GLY	3.7
34	BC	208	VAL	3.7
34	BC	212	ASN	3.7
30	B2	9	C	3.7
49	DT	32	LYS	3.7
33	DB	220	GLY	3.7
42	BK	126	ASP	3.7
46	BQ	76	PHE	3.7
21	CT	140	CYS	3.7
37	BF	87	THR	3.7

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Mol	Chain	Res	Type	RSRZ
44	DO	111	ALA	3.7
59	Dd	69	HIS	3.7
21	CT	194	GLY	3.7
51	BV	24	GLY	3.7
12	CK	27	ASP	3.7
9	CH	6	GLN	3.7
39	DH	123	GLN	3.7
1	A1	279	G	3.7
1	C1	1130	G	3.7
12	AK	46	LEU	3.7
29	D1	1560	G	3.7
59	Dd	20	ASN	3.7
72	DL	104	ILE	3.7
7	CF	145	ALA	3.7
35	DD	28	ALA	3.7
43	DN	9	ALA	3.7
49	DT	44	ALA	3.7
3	AB	162	CYS	3.7
59	Bd	22	CYS	3.7
30	D2	69	C	3.7
33	BB	173	GLY	3.7
35	DD	80	GLY	3.7
29	B1	2524	A	3.7
29	D1	2397	A	3.7
1	C1	679	U	3.7
29	D1	610	G	3.7
46	DQ	71	ALA	3.7
15	CN	104	THR	3.7
39	BH	190	VAL	3.7
59	Bd	37	CYS	3.7
1	C1	1399	C	3.7
54	BY	31	GLY	3.7
29	D1	2872	A	3.7
7	CF	136	ARG	3.7
11	CJ	101	SER	3.7
46	DQ	20	SER	3.7
5	AD	94	THR	3.7
14	AM	3	GLY	3.7
54	DY	51	GLY	3.7
29	B1	2208	A	3.7
21	AT	310	ILE	3.7
36	BE	86	TYR	3.7

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Mol	Chain	Res	Type	RSRZ
37	DF	125	GLN	3.7
51	DV	41	LYS	3.7
21	CT	266	ASP	3.7
2	CA	62	ARG	3.6
30	D2	50	U	3.6
9	CH	33	LEU	3.6
11	CJ	11	GLY	3.6
16	AO	100	GLY	3.6
38	BG	226	GLY	3.6
61	Bf	64	THR	3.6
58	Bc	43	LYS	3.6
42	DK	116	TYR	3.6
9	AH	6	GLN	3.6
52	DW	90	ALA	3.6
5	CD	180	ARG	3.6
19	CR	41	VAL	3.6
34	DC	116	ARG	3.6
1	C1	1111	G	3.6
3	AB	113	LEU	3.6
5	CD	97	LEU	3.6
35	BD	85	SER	3.6
56	Ba	4	LEU	3.6
38	DG	213	GLY	3.6
72	DL	76	SER	3.6
73	DM	200	SER	3.6
29	B1	1580	A	3.6
52	BW	67	ILE	3.6
33	BB	209	HIS	3.6
53	DX	63	LYS	3.6
13	CL	50	ALA	3.6
6	CE	110	GLN	3.6
7	CF	115	PHE	3.6
39	BH	175	VAL	3.6
44	BO	31	ARG	3.6
14	AM	67	MET	3.6
48	DS	182	ASP	3.6
35	DD	235	LEU	3.6
49	BT	62	GLY	3.6
34	BC	63	PRO	3.6
9	CH	104	ALA	3.6
36	BE	189	GLU	3.6
34	BC	167	ARG	3.6

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Mol	Chain	Res	Type	RSRZ
48	DS	40	ALA	3.6
21	CT	125	GLY	3.6
43	BN	103	ILE	3.6
48	BS	16	GLY	3.6
17	CP	28	ASN	3.6
30	B2	64	A	3.6
51	DV	59	HIS	3.6
39	BH	212	ALA	3.6
1	A1	94	U	3.6
31	D3	146	U	3.6
55	DZ	89	VAL	3.6
21	CT	121	MET	3.6
40	BI	162	GLN	3.6
59	Dd	37	CYS	3.6
5	AD	153	GLY	3.6
44	DO	72	LYS	3.6
41	BJ	23	ASN	3.6
9	AH	85	ALA	3.6
9	AH	93	THR	3.6
34	BC	209	PHE	3.6
34	DC	217	ALA	3.6
35	BD	261	VAL	3.6
42	BK	167	TYR	3.6
54	BY	35	ALA	3.6
72	DL	17	ALA	3.6
15	AN	34	LEU	3.6
32	BA	194	LEU	3.6
36	BE	95	TRP	3.6
8	CG	84	ILE	3.6
43	DN	127	LYS	3.6
21	AT	97	GLY	3.6
50	BU	65	GLY	3.6
29	B1	102	C	3.6
29	D1	2495	C	3.6
13	AL	23	ASP	3.6
50	BU	97	ASP	3.6
55	DZ	99	ASP	3.6
29	B1	538	G	3.6
29	B1	718	G	3.6
41	BJ	27	PRO	3.6
5	CD	123	VAL	3.6
10	AI	10	ARG	3.6

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Mol	Chain	Res	Type	RSRZ
33	BB	157	VAL	3.6
39	BH	197	VAL	3.6
41	DJ	4	ARG	3.6
44	DO	96	ARG	3.6
5	CD	209	TYR	3.6
11	AJ	32	ASN	3.6
36	DE	12	TYR	3.6
41	DJ	9	TYR	3.6
48	BS	57	VAL	3.6
57	Db	20	HIS	3.6
2	AA	12	GLU	3.6
17	AP	140	LYS	3.6
34	BC	252	ILE	3.6
47	DR	67	ILE	3.6
49	DT	100	LYS	3.6
5	AD	150	GLY	3.6
29	D1	1582	C	3.6
49	DT	41	ASP	3.5
61	Df	72	LEU	3.5
7	AF	100	TYR	3.5
32	BA	166	ALA	3.5
42	BK	119	SER	3.5
48	BS	58	HIS	3.5
8	AG	140	LYS	3.5
35	BD	67	THR	3.5
46	DQ	74	LYS	3.5
50	BU	96	GLU	3.5
59	Dd	61	THR	3.5
14	CM	53	TRP	3.5
55	DZ	18	ILE	3.5
36	DE	39	GLN	3.5
10	CI	10	ARG	3.5
35	DD	197	ARG	3.5
48	BS	24	LEU	3.5
56	Ba	50	ARG	3.5
1	C1	1523	G	3.5
2	CA	129	ASP	3.5
54	DY	85	ASP	3.5
15	AN	82	TYR	3.5
17	AP	92	CYS	3.5
61	Bf	88	CYS	3.5
5	CD	188	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
53	DX	71	SER	3.5
58	Bc	14	LYS	3.5
2	AA	173	ILE	3.5
9	CH	99	GLN	3.5
7	CF	142	VAL	3.5
60	Be	16	ALA	3.5
72	DL	126	ALA	3.5
1	A1	1241	G	3.5
29	B1	3315	G	3.5
5	CD	211	ILE	3.5
34	BC	304	THR	3.5
57	Bb	70	GLY	3.5
6	AE	86	LEU	3.5
73	DM	60	ARG	3.5
33	DB	206	PRO	3.5
39	BH	199	ALA	3.5
1	C1	1720	G	3.5
5	CD	151	GLY	3.5
6	AE	64	GLU	3.5
21	CT	112	SER	3.5
29	D1	240	U	3.5
35	BD	10	SER	3.5
36	BE	63	GLN	3.5
50	BU	101	VAL	3.5
61	Bf	58	PHE	3.5
29	D1	1842	A	3.5
31	B3	51	G	3.5
40	DI	118	LEU	3.5
54	DY	69	TRP	3.5
6	CE	172	VAL	3.5
10	CI	50	THR	3.5
14	AM	129	GLN	3.5
60	De	31	THR	3.5
8	AG	81	ALA	3.5
36	DE	181	PRO	3.5
40	BI	158	ALA	3.5
34	BC	6	TYR	3.5
44	DO	174	ILE	3.5
1	C1	660	G	3.5
1	C1	1350	U	3.5
30	B2	14	U	3.5
61	Df	83	LEU	3.5

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Mol	Chain	Res	Type	RSRZ
6	CE	63	ASP	3.5
21	CT	105	GLY	3.5
34	BC	185	GLY	3.5
41	BJ	177	ASP	3.5
42	DK	168	ASP	3.5
49	DT	62	GLY	3.5
61	Bf	14	GLY	3.5
9	AH	18	ARG	3.5
9	AH	79	VAL	3.5
1	C1	217	A	3.5
5	CD	186	ASN	3.5
6	CE	65	LYS	3.5
56	Da	76	SER	3.5
13	AL	19	ASN	3.5
34	BC	346	THR	3.5
35	DD	213	ASN	3.5
36	BE	212	ALA	3.5
43	BN	9	ALA	3.5
38	DG	149	TYR	3.5
2	CA	25	GLY	3.4
2	CA	46	HIS	3.4
4	AC	190	ARG	3.4
17	AP	109	ARG	3.4
33	DB	148	VAL	3.4
37	DF	48	ARG	3.4
57	Bb	39	ASP	3.4
1	A1	78	A	3.4
1	C1	1797	A	3.4
42	DK	43	GLN	3.4
49	BT	71	SER	3.4
2	CA	197	ILE	3.4
62	Dg	33	GLN	3.4
35	DD	75	PRO	3.4
41	BJ	221	ALA	3.4
42	BK	98	ALA	3.4
45	DP	181	ALA	3.4
53	DX	18	ALA	3.4
54	DY	106	ALA	3.4
29	B1	1555	U	3.4
29	D1	1821	U	3.4
21	AT	311	ARG	3.4
37	BF	37	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
37	BF	45	GLY	3.4
37	BF	71	VAL	3.4
29	D1	2475	G	3.4
5	AD	181	GLU	3.4
15	AN	103	ILE	3.4
35	DD	205	PRO	3.4
1	A1	1191	U	3.4
13	AL	25	ASN	3.4
21	CT	201	THR	3.4
54	BY	81	LEU	3.4
61	Df	10	THR	3.4
18	CQ	68	ARG	3.4
32	DA	164	CYS	3.4
44	DO	38	ARG	3.4
2	AA	76	ILE	3.4
4	CC	115	ILE	3.4
14	CM	8	ASP	3.4
15	CN	13	GLU	3.4
1	A1	80	A	3.4
29	B1	1026	A	3.4
37	DF	137	ASP	3.4
39	BH	125	ALA	3.4
53	BX	18	ALA	3.4
18	CQ	75	LEU	3.4
39	BH	109	LEU	3.4
48	BS	91	SER	3.4
59	Dd	39	TYR	3.4
34	BC	66	LYS	3.4
49	DT	102	ARG	3.4
10	AI	48	GLY	3.4
61	Df	74	CYS	3.4
1	A1	320	U	3.4
5	CD	173	ALA	3.4
29	B1	2817	A	3.4
5	AD	100	ASN	3.4
11	AJ	60	PHE	3.4
34	BC	126	LYS	3.4
36	BE	89	THR	3.4
11	CJ	19	VAL	3.4
21	CT	178	VAL	3.4
52	DW	97	LYS	3.4
54	BY	132	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
15	AN	99	ILE	3.4
42	BK	59	ILE	3.4
21	AT	223	TRP	3.4
35	DD	58	HIS	3.4
35	DD	140	HIS	3.4
43	BN	12	TRP	3.4
1	C1	1341	A	3.4
21	AT	212	ALA	3.4
21	AT	257	ALA	3.4
33	DB	59	ALA	3.4
37	BF	148	GLU	3.4
37	BF	137	ASP	3.4
9	CH	8	ARG	3.4
34	BC	4	ARG	3.4
36	BE	269	SER	3.4
40	BI	23	ARG	3.4
46	DQ	56	ARG	3.4
61	Bf	46	LYS	3.4
42	BK	97	SER	3.4
37	DF	62	THR	3.4
4	CC	36	GLY	3.4
42	DK	73	GLY	3.4
45	DP	69	GLY	3.4
55	DZ	75	ASN	3.4
58	Bc	59	ASN	3.4
62	Dg	83	ILE	3.4
12	CK	46	LEU	3.4
20	CS	27	HIS	3.4
29	D1	2971	A	3.4
60	De	16	ALA	3.4
33	BB	197	PRO	3.4
6	CE	39	LYS	3.4
17	CP	140	LYS	3.4
14	CM	68	ARG	3.4
36	DE	29	ASP	3.4
42	DK	111	ASP	3.4
13	CL	107	SER	3.4
45	BP	198	GLY	3.4
46	BQ	8	SER	3.4
1	C1	229	U	3.4
39	DH	162	LEU	3.4
41	BJ	195	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
29	B1	72	C	3.3
29	B1	2580	A	3.3
2	AA	194	PRO	3.3
36	BE	255	PRO	3.3
16	AO	74	VAL	3.3
42	DK	72	ARG	3.3
44	DO	35	VAL	3.3
46	BQ	131	ARG	3.3
3	AB	207	LEU	3.3
21	CT	246	SER	3.3
29	D1	2460	U	3.3
32	DA	50	SER	3.3
4	AC	70	THR	3.3
50	DU	31	ALA	3.3
29	B1	2458	A	3.3
31	B3	84	C	3.3
41	DJ	19	LYS	3.3
9	CH	79	VAL	3.3
17	CP	121	ARG	3.3
42	DK	104	PHE	3.3
21	AT	113	VAL	3.3
21	CT	305	TYR	3.3
17	CP	35	GLY	3.3
21	AT	191	ASP	3.3
29	D1	2349	U	3.3
36	BE	232	ASP	3.3
37	DF	87	THR	3.3
5	AD	191	ALA	3.3
32	DA	141	ASN	3.3
48	DS	47	ASN	3.3
1	C1	239	C	3.3
13	AL	115	ARG	3.3
18	CQ	58	ARG	3.3
41	BJ	3	ARG	3.3
48	DS	74	ARG	3.3
49	DT	26	HIS	3.3
57	Db	98	HIS	3.3
9	AH	33	LEU	3.3
14	CM	70	GLN	3.3
18	CQ	71	ILE	3.3
36	DE	75	LEU	3.3
9	CH	109	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
17	CP	115	GLY	3.3
17	CP	119	GLY	3.3
21	CT	15	GLY	3.3
35	BD	80	GLY	3.3
32	DA	142	ASP	3.3
32	DA	143	ASP	3.3
3	CB	248	SER	3.3
6	CE	152	SER	3.3
48	DS	76	SER	3.3
62	Dg	58	SER	3.3
40	BI	188	THR	3.3
1	A1	505	A	3.3
5	AD	186	ASN	3.3
1	C1	934	C	3.3
6	CE	168	ARG	3.3
29	D1	2143	A	3.3
34	BC	46	PHE	3.3
55	BZ	11	ASN	3.3
12	CK	56	HIS	3.3
34	BC	260	VAL	3.3
7	AF	93	TYR	3.3
1	C1	240	U	3.3
18	CQ	100	ILE	3.3
36	BE	195	LEU	3.3
1	C1	772	G	3.3
17	AP	63	GLN	3.3
29	D1	2474	G	3.3
34	DC	173	GLN	3.3
41	BJ	13	LYS	3.3
53	DX	114	ASP	3.3
5	AD	184	PHE	3.3
8	AG	113	PHE	3.3
9	CH	106	ALA	3.3
40	BI	83	THR	3.3
41	DJ	201	SER	3.3
49	DT	47	SER	3.3
72	DL	24	ALA	3.3
3	AB	108	ASN	3.3
17	CP	94	ASN	3.3
29	D1	786	A	3.3
29	D1	1707	A	3.3
59	Dd	44	THR	3.3

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Mol	Chain	Res	Type	RSRZ
11	AJ	92	TYR	3.3
1	A1	175	G	3.3
4	AC	161	GLY	3.3
5	AD	86	GLN	3.3
29	D1	1878	G	3.3
44	BO	82	GLY	3.3
48	BS	60	LYS	3.3
2	AA	72	ASP	3.3
33	DB	142	ASP	3.3
37	BF	147	ALA	3.3
42	DK	28	ASP	3.3
52	DW	122	ALA	3.3
54	DY	68	PHE	3.3
2	CA	113	ARG	3.3
47	DR	83	VAL	3.3
48	DS	167	ARG	3.3
12	CK	54	THR	3.3
29	D1	1705	U	3.3
34	DC	96	PRO	3.3
41	BJ	176	LEU	3.3
46	DQ	79	THR	3.3
33	DB	140	ASN	3.3
35	BD	50	TYR	3.3
35	DD	173	GLY	3.3
44	BO	58	GLY	3.3
59	Bd	9	GLY	3.3
15	AN	32	LYS	3.3
35	DD	208	VAL	3.3
35	DD	246	ARG	3.3
41	DJ	193	ASP	3.3
54	BY	75	LEU	3.3
1	A1	959	U	3.3
29	D1	249	U	3.3
42	BK	74	PRO	3.3
32	BA	96	ASN	3.2
45	BP	65	ASN	3.2
11	CJ	125	GLU	3.2
44	DO	15	GLN	3.2
48	DS	175	GLN	3.2
29	B1	3260	G	3.2
4	AC	76	ARG	3.2
11	AJ	20	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
36	BE	85	ARG	3.2
48	BS	110	ARG	3.2
50	BU	52	ALA	3.2
59	Dd	11	ARG	3.2
73	DM	84	VAL	3.2
10	CI	111	MET	3.2
29	D1	1094	U	3.2
2	AA	125	ASP	3.2
19	AR	52	ASP	3.2
42	DK	45	PRO	3.2
51	BV	36	SER	3.2
57	Db	69	SER	3.2
51	BV	59	HIS	3.2
59	Dd	57	HIS	3.2
55	BZ	73	GLY	3.2
60	De	33	ASN	3.2
3	CB	208	GLU	3.2
17	AP	138	GLU	3.2
34	BC	213	GLU	3.2
34	DC	46	PHE	3.2
1	C1	872	G	3.2
2	CA	26	ALA	3.2
21	CT	254	ALA	3.2
34	DC	161	LEU	3.2
61	Bf	35	LEU	3.2
1	C1	61	A	3.2
29	D1	1580	A	3.2
29	D1	2192	C	3.2
54	BY	50	PRO	3.2
40	BI	89	LYS	3.2
48	BS	148	ASP	3.2
48	DS	171	ASP	3.2
55	BZ	97	ASP	3.2
6	AE	87	SER	3.2
15	AN	60	THR	3.2
21	CT	37	SER	3.2
34	BC	245	GLY	3.2
34	BC	315	GLY	3.2
36	BE	56	THR	3.2
48	DS	118	HIS	3.2
12	AK	31	ASN	3.2
21	CT	311	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
4	AC	144	ALA	3.2
34	DC	295	ALA	3.2
29	D1	2575	G	3.2
43	DN	103	ILE	3.2
1	A1	67	A	3.2
48	DS	186	LYS	3.2
34	DC	48	GLY	3.2
39	BH	144	GLU	3.2
39	DH	186	LEU	3.2
40	BI	146	LEU	3.2
8	CG	150	VAL	3.2
13	CL	46	VAL	3.2
49	BT	40	VAL	3.2
52	BW	70	GLU	3.2
1	A1	730	G	3.2
29	D1	1018	G	3.2
1	C1	659	C	3.2
13	CL	84	TRP	3.2
35	DD	190	GLY	3.2
41	DJ	194	GLY	3.2
8	AG	80	LEU	3.2
32	DA	157	PHE	3.2
33	BB	22	LEU	3.2
3	CB	39	THR	3.2
17	CP	69	ARG	3.2
29	B1	2493	U	3.2
34	DC	2	SER	3.2
57	Db	3	SER	3.2
59	Bd	70	VAL	3.2
60	Be	30	ARG	3.2
5	AD	39	GLU	3.2
19	CR	31	GLU	3.2
14	CM	127	ASN	3.2
21	CT	119	ALA	3.2
29	B1	2398	A	3.2
29	D1	1195	A	3.2
29	D1	3260	G	3.2
1	C1	70	C	3.2
29	D1	1866	C	3.2
34	BC	170	PRO	3.2
9	AH	102	LEU	3.2
1	C1	1522	U	3.2

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Mol	Chain	Res	Type	RSRZ
18	CQ	62	VAL	3.2
29	B1	248	U	3.2
31	D3	86	U	3.2
33	BB	208	ASP	3.2
33	DB	49	VAL	3.2
56	Da	70	ARG	3.2
15	AN	120	SER	3.2
5	CD	107	LYS	3.2
46	DQ	137	ASN	3.2
60	De	50	ASN	3.2
29	D1	285	A	3.2
29	D1	2256	A	3.2
11	AJ	142	TYR	3.2
29	D1	1581	C	3.2
38	BG	75	TYR	3.2
32	BA	72	PHE	3.2
47	BR	35	PHE	3.2
44	DO	114	ARG	3.2
48	DS	162	ARG	3.2
10	CI	46	ALA	3.2
21	AT	227	ALA	3.2
46	DQ	53	ASP	3.2
56	Da	58	ALA	3.2
21	AT	277	GLU	3.1
34	DC	77	THR	3.1
44	BO	43	THR	3.1
11	CJ	139	GLN	3.1
1	A1	22	A	3.1
35	DD	43	ASN	3.1
59	Dd	48	ASN	3.1
29	D1	2267	C	3.1
29	D1	2871	G	3.1
33	DB	30	ARG	3.1
33	DB	64	ARG	3.1
34	DC	245	GLY	3.1
55	BZ	35	ARG	3.1
8	CG	41	ALA	3.1
14	CM	119	LYS	3.1
21	CT	78	ALA	3.1
21	CT	303	ALA	3.1
58	Bc	2	ALA	3.1
72	DL	31	LYS	3.1

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Mol	Chain	Res	Type	RSRZ
52	BW	106	ASP	3.1
1	A1	2	A	3.1
1	C1	661	A	3.1
29	B1	1103	A	3.1
29	D1	1558	A	3.1
1	C1	653	C	3.1
2	AA	138	TYR	3.1
62	Dg	41	PHE	3.1
1	A1	1699	G	3.1
29	D1	805	G	3.1
4	AC	50	ILE	3.1
11	AJ	36	ILE	3.1
44	DO	151	ILE	3.1
57	Bb	11	LYS	3.1
21	AT	190	ALA	3.1
41	BJ	92	HIS	3.1
51	BV	11	ALA	3.1
3	CB	232	GLU	3.1
1	A1	135	A	3.1
29	D1	71	A	3.1
33	BB	86	GLN	3.1
36	BE	38	THR	3.1
39	DH	79	GLN	3.1
56	Da	46	THR	3.1
1	A1	1677	C	3.1
18	CQ	49	ARG	3.1
21	AT	10	ARG	3.1
29	B1	135	C	3.1
29	D1	2257	C	3.1
36	BE	54	ARG	3.1
37	BF	46	ARG	3.1
37	DF	82	ARG	3.1
46	DQ	62	ARG	3.1
52	BW	51	VAL	3.1
55	BZ	59	TYR	3.1
9	CH	35	GLY	3.1
21	CT	173	GLY	3.1
54	DY	37	GLY	3.1
1	C1	246	G	3.1
34	BC	179	ALA	3.1
39	BH	131	ALA	3.1
72	DL	26	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
33	BB	104	LEU	3.1
33	BB	180	LEU	3.1
29	B1	1356	U	3.1
43	BN	16	GLU	3.1
1	A1	1151	A	3.1
4	CC	97	SER	3.1
6	AE	104	PHE	3.1
9	AH	55	SER	3.1
20	AS	41	GLN	3.1
21	CT	207	ASP	3.1
34	BC	216	ASP	3.1
10	CI	78	THR	3.1
2	AA	29	VAL	3.1
6	AE	126	ARG	3.1
6	CE	132	ARG	3.1
6	CE	169	PRO	3.1
19	AR	19	THR	3.1
41	DJ	196	PHE	3.1
36	DE	139	PRO	3.1
37	DF	91	VAL	3.1
42	BK	138	VAL	3.1
34	DC	120	LYS	3.1
35	DD	204	GLY	3.1
11	CJ	62	ASN	3.1
52	DW	111	ASN	3.1
54	DY	148	ILE	3.1
56	Da	87	ASN	3.1
1	A1	127	G	3.1
29	D1	3390	G	3.1
16	CO	116	ALA	3.1
36	DE	294	ALA	3.1
7	CF	81	HIS	3.1
54	BY	25	HIS	3.1
29	D1	1554	U	3.1
29	D1	3270	U	3.1
39	DH	144	GLU	3.1
40	BI	11	GLU	3.1
6	CE	82	ARG	3.1
29	D1	2673	A	3.1
34	DC	327	CYS	3.1
12	AK	13	SER	3.1
16	AO	5	SER	3.1

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Mol	Chain	Res	Type	RSRZ
21	CT	82	SER	3.1
43	BN	74	ARG	3.1
47	DR	89	ASP	3.1
48	BS	81	ARG	3.1
56	Ba	84	ASP	3.1
56	Da	31	ARG	3.1
8	AG	51	GLY	3.1
29	D1	2263	C	3.1
60	De	49	MET	3.1
62	Bg	11	THR	3.1
42	DK	20	ASN	3.1
1	A1	1793	G	3.1
29	D1	304	G	3.1
31	D3	85	G	3.1
1	C1	681	U	3.1
29	B1	1094	U	3.1
29	D1	2570	U	3.1
2	CA	221	GLU	3.1
17	AP	121	ARG	3.1
15	CN	98	GLN	3.1
40	BI	88	TYR	3.1
41	BJ	113	GLN	3.1
48	BS	52	LYS	3.1
52	BW	109	LYS	3.1
11	AJ	64	ASP	3.1
18	AQ	74	SER	3.1
33	BB	243	THR	3.1
42	DK	34	SER	3.1
32	BA	198	TRP	3.1
4	AC	118	ALA	3.1
38	BG	147	LEU	3.1
11	CJ	32	ASN	3.1
21	CT	17	ASN	3.1
42	BK	7	ASN	3.1
58	Bc	6	ALA	3.1
29	B1	3293	U	3.1
29	D1	1035	G	3.1
29	D1	2979	U	3.1
44	BO	158	HIS	3.1
4	AC	186	VAL	3.1
34	DC	79	VAL	3.1
36	DE	254	LYS	3.1

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Mol	Chain	Res	Type	RSRZ
39	BH	106	LYS	3.1
48	BS	133	LYS	3.1
49	BT	50	LYS	3.1
54	BY	32	ARG	3.1
1	A1	525	A	3.1
32	DA	33	GLU	3.1
11	CJ	73	GLY	3.0
35	DD	21	PRO	3.0
44	DO	76	PRO	3.0
46	DQ	5	GLY	3.0
49	BT	65	TYR	3.0
54	BY	33	GLY	3.0
13	CL	45	LEU	3.0
15	AN	107	THR	3.0
21	CT	72	THR	3.0
32	DA	42	ASP	3.0
49	DT	61	THR	3.0
57	Db	84	THR	3.0
14	AM	19	ALA	3.0
21	AT	24	ALA	3.0
34	BC	233	TRP	3.0
29	B1	120	G	3.0
4	AC	8	LYS	3.0
13	AL	123	ARG	3.0
32	DA	54	LYS	3.0
44	DO	158	HIS	3.0
51	BV	48	ARG	3.0
21	CT	269	TYR	3.0
50	BU	43	GLY	3.0
57	Bb	7	PRO	3.0
37	DF	64	LEU	3.0
48	DS	185	LEU	3.0
56	Da	4	LEU	3.0
5	AD	96	SER	3.0
9	CH	56	SER	3.0
31	D3	128	U	3.0
34	BC	361	THR	3.0
45	BP	184	THR	3.0
53	BX	53	ASP	3.0
56	Da	39	PHE	3.0
5	CD	92	ARG	3.0
8	AG	107	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
9	CH	103	ARG	3.0
10	AI	76	VAL	3.0
10	CI	98	ASN	3.0
48	BS	15	VAL	3.0
49	BT	112	ASN	3.0
61	Bf	42	ARG	3.0
4	AC	159	HIS	3.0
57	Bb	9	ILE	3.0
1	C1	67	A	3.0
31	D3	126	A	3.0
32	BA	121	PRO	3.0
33	DB	120	PRO	3.0
13	CL	136	GLN	3.0
29	B1	633	C	3.0
29	D1	2675	C	3.0
72	DL	35	LEU	3.0
38	DG	225	GLN	3.0
3	AB	248	SER	3.0
40	BI	19	SER	3.0
53	BX	83	ASP	3.0
61	Df	15	LYS	3.0
10	CI	34	VAL	3.0
53	BX	51	ARG	3.0
29	B1	2442	G	3.0
29	B1	3216	G	3.0
29	D1	2481	G	3.0
37	BF	154	LEU	3.0
35	DD	23	PRO	3.0
1	A1	1192	C	3.0
1	C1	394	C	3.0
10	CI	110	GLU	3.0
32	DA	22	GLU	3.0
61	Df	92	GLU	3.0
35	BD	28	ALA	3.0
50	BU	60	ALA	3.0
2	AA	129	ASP	3.0
12	CK	55	THR	3.0
16	CO	5	SER	3.0
35	DD	186	LYS	3.0
38	DG	150	LYS	3.0
10	AI	89	MET	3.0
35	BD	215	ILE	3.0

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Mol	Chain	Res	Type	RSRZ
36	BE	293	LEU	3.0
42	BK	12	LEU	3.0
1	A1	76	A	3.0
29	D1	783	A	3.0
44	DO	175	ASN	3.0
3	AB	112	GLY	3.0
33	DB	232	GLY	3.0
54	BY	28	HIS	3.0
3	CB	236	PRO	3.0
17	AP	64	PRO	3.0
29	D1	1199	C	3.0
39	BH	107	GLU	3.0
5	CD	170	GLN	3.0
9	CH	101	ALA	3.0
39	DH	192	GLN	3.0
15	AN	61	LYS	3.0
34	DC	126	LYS	3.0
44	DO	170	LYS	3.0
61	Df	13	LYS	3.0
50	BU	126	TRP	3.0
4	AC	39	VAL	3.0
34	DC	361	THR	3.0
36	BE	191	ASP	3.0
1	A1	6	G	3.0
1	A1	1101	G	3.0
1	C1	828	U	3.0
1	C1	913	G	3.0
21	AT	105	GLY	3.0
29	B1	1078	U	3.0
4	CC	22	ASN	3.0
29	D1	2253	G	3.0
35	BD	36	HIS	3.0
35	BD	68	GLY	3.0
39	BH	130	TYR	3.0
48	DS	129	GLY	3.0
29	D1	961	C	3.0
29	D1	1562	C	3.0
31	D3	94	C	3.0
35	DD	164	GLU	3.0
40	DI	51	GLN	3.0
43	BN	50	LYS	3.0
51	BV	30	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
53	DX	83	ASP	3.0
56	Da	47	ASP	3.0
18	AQ	73	GLY	3.0
21	CT	77	GLY	3.0
33	BB	13	GLY	3.0
38	DG	226	GLY	3.0
41	BJ	124	GLY	3.0
54	BY	36	GLY	3.0
1	C1	486	G	3.0
7	AF	104	HIS	3.0
31	D3	95	G	3.0
36	BE	175	HIS	3.0
55	BZ	68	TYR	3.0
13	CL	25	ASN	3.0
29	B1	175	C	3.0
49	DT	43	LYS	3.0
47	BR	120	GLU	3.0
47	DR	74	GLU	3.0
48	DS	170	ARG	3.0
54	DY	65	GLN	3.0
72	DL	105	GLN	3.0
10	CI	121	ILE	2.9
21	CT	19	TRP	2.9
33	DB	137	ILE	2.9
54	BY	22	ILE	2.9
32	DA	159	LEU	2.9
30	D2	14	U	2.9
5	CD	161	ASP	2.9
15	CN	76	SER	2.9
29	D1	2449	A	2.9
32	BA	42	ASP	2.9
34	BC	44	THR	2.9
33	BB	53	GLY	2.9
40	DI	81	GLY	2.9
48	DS	16	GLY	2.9
29	D1	1565	G	2.9
32	DA	160	LYS	2.9
35	DD	191	LYS	2.9
29	D1	1574	C	2.9
8	CG	52	VAL	2.9
14	CM	122	ARG	2.9
35	DD	42	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
42	DK	10	ARG	2.9
50	BU	137	VAL	2.9
11	AJ	100	GLN	2.9
36	BE	51	LEU	2.9
1	A1	1370	U	2.9
1	C1	935	U	2.9
1	C1	959	U	2.9
29	B1	2873	U	2.9
1	A1	1256	A	2.9
1	C1	135	A	2.9
30	D2	11	A	2.9
34	BC	230	THR	2.9
36	BE	120	LYS	2.9
36	DE	59	ASP	2.9
41	BJ	19	LYS	2.9
48	DS	73	GLY	2.9
32	DA	19	TYR	2.9
57	Bb	90	LYS	2.9
59	Dd	17	THR	2.9
1	A1	573	C	2.9
2	AA	159	ALA	2.9
21	AT	104	VAL	2.9
29	D1	1021	G	2.9
39	BH	203	VAL	2.9
39	DH	163	VAL	2.9
39	DH	212	ALA	2.9
4	AC	59	LEU	2.9
7	CF	80	MET	2.9
11	AJ	40	GLU	2.9
11	AJ	116	LEU	2.9
32	DA	40	ASN	2.9
33	DB	41	ILE	2.9
36	DE	188	GLU	2.9
39	DH	211	LEU	2.9
57	Db	35	GLN	2.9
60	Be	25	GLN	2.9
10	CI	48	GLY	2.9
29	B1	1221	A	2.9
29	D1	1559	A	2.9
35	BD	78	GLY	2.9
39	BH	234	GLY	2.9
40	BI	122	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
47	DR	142	GLY	2.9
49	BT	73	GLY	2.9
52	DW	121	LYS	2.9
2	CA	147	THR	2.9
3	CB	153	SER	2.9
7	CF	78	THR	2.9
32	BA	79	SER	2.9
32	DA	23	THR	2.9
39	BH	110	THR	2.9
41	BJ	17	TYR	2.9
46	BQ	60	PHE	2.9
50	BU	35	TYR	2.9
2	CA	146	LEU	2.9
50	DU	32	ARG	2.9
51	BV	20	LEU	2.9
5	AD	63	GLN	2.9
62	Bg	33	GLN	2.9
72	DL	11	LYS	2.9
1	A1	604	A	2.9
42	DK	144	CYS	2.9
59	Bd	4	GLY	2.9
37	BF	27	PRO	2.9
43	DN	49	PRO	2.9
61	Df	43	TYR	2.9
1	A1	1376	C	2.9
11	CJ	98	ASP	2.9
18	CQ	78	ILE	2.9
34	BC	176	ALA	2.9
40	DI	41	ILE	2.9
43	BN	29	ALA	2.9
44	DO	67	ARG	2.9
47	DR	104	LEU	2.9
48	BS	40	ALA	2.9
52	BW	47	ALA	2.9
52	BW	110	VAL	2.9
52	DW	114	VAL	2.9
21	CT	273	ASP	2.9
58	Bc	40	SER	2.9
29	D1	170	G	2.9
29	D1	1507	G	2.9
29	D1	1766	G	2.9
29	D1	3275	U	2.9

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Mol	Chain	Res	Type	RSRZ
11	CJ	40	GLU	2.9
19	AR	50	GLU	2.9
21	CT	14	GLU	2.9
5	AD	139	ASN	2.9
15	AN	98	GLN	2.9
57	Bb	31	ASN	2.9
57	Db	78	ASN	2.9
29	D1	2324	A	2.9
33	DB	43	GLY	2.9
35	BD	204	GLY	2.9
56	Ba	66	GLY	2.9
59	Dd	23	GLY	2.9
13	AL	133	VAL	2.9
38	BG	23	ALA	2.9
39	BH	132	VAL	2.9
31	B3	76	C	2.9
39	DH	246	MET	2.9
41	DJ	221	ALA	2.9
2	CA	77	SER	2.9
31	D3	34	U	2.9
59	Bd	33	THR	2.9
44	DO	156	HIS	2.9
29	D1	725	G	2.9
29	D1	3345	G	2.9
20	AS	20	GLN	2.9
1	C1	1081	A	2.9
6	CE	30	LEU	2.9
29	D1	1027	A	2.9
35	DD	78	GLY	2.9
42	BK	17	LEU	2.9
54	DY	143	GLY	2.9
16	AO	25	VAL	2.9
17	CP	109	ARG	2.9
33	BB	210	PRO	2.9
6	AE	159	ALA	2.9
29	D1	245	U	2.9
13	CL	77	THR	2.9
19	CR	8	THR	2.9
34	DC	104	THR	2.9
53	DX	86	THR	2.9
54	BY	41	HIS	2.9
59	Bd	17	THR	2.9

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Mol	Chain	Res	Type	RSRZ
3	AB	251	LYS	2.9
15	CN	52	LYS	2.9
61	Df	66	LYS	2.9
1	A1	1584	G	2.9
29	D1	264	G	2.9
29	D1	1020	G	2.9
29	D1	2452	G	2.9
3	CB	230	TRP	2.9
21	AT	52	GLN	2.9
35	BD	109	TRP	2.9
7	CF	111	VAL	2.8
9	CH	74	VAL	2.8
16	AO	14	ILE	2.8
3	CB	239	PRO	2.8
29	D1	1556	C	2.8
5	CD	206	SER	2.8
32	DA	5	THR	2.8
36	DE	18	THR	2.8
44	DO	128	LYS	2.8
33	BB	106	SER	2.8
57	Bb	14	THR	2.8
2	CA	43	ASP	2.8
8	AG	142	GLU	2.8
15	AN	94	GLU	2.8
36	BE	142	PHE	2.8
36	BE	188	GLU	2.8
73	DM	10	GLU	2.8
13	CL	74	GLN	2.8
35	DD	65	TRP	2.8
10	AI	113	GLY	2.8
33	DB	213	GLY	2.8
1	C1	260	U	2.8
31	D3	77	A	2.8
34	BC	181	ILE	2.8
52	BW	95	ILE	2.8
34	BC	307	PRO	2.8
45	BP	165	ALA	2.8
21	AT	117	LYS	2.8
29	B1	174	C	2.8
30	D2	9	C	2.8
34	DC	127	LYS	2.8
57	Db	80	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
34	DC	313	HIS	2.8
4	AC	86	LEU	2.8
44	DO	180	PHE	2.8
1	A1	1201	G	2.8
5	CD	91	GLU	2.8
36	DE	281	GLU	2.8
4	CC	101	GLN	2.8
21	CT	151	VAL	2.8
39	DH	139	VAL	2.8
42	BK	113	GLY	2.8
29	D1	2946	A	2.8
5	CD	95	ASN	2.8
7	CF	106	ASN	2.8
12	CK	51	ALA	2.8
40	BI	139	ASN	2.8
11	CJ	129	PHE	2.8
36	BE	83	LEU	2.8
1	A1	1129	U	2.8
7	AF	99	ARG	2.8
21	CT	97	GLY	2.8
29	B1	2319	U	2.8
29	D1	2493	U	2.8
31	D3	75	G	2.8
34	BC	112	ASP	2.8
41	BJ	98	ARG	2.8
61	Df	27	GLN	2.8
1	A1	266	A	2.8
15	AN	43	LYS	2.8
21	AT	83	ALA	2.8
21	AT	253	ALA	2.8
33	BB	12	ALA	2.8
48	DS	12	ALA	2.8
15	AN	49	ASN	2.8
40	BI	149	ASN	2.8
44	BO	70	ASN	2.8
29	B1	2495	C	2.8
7	AF	81	HIS	2.8
34	DC	224	HIS	2.8
1	C1	782	U	2.8
29	D1	1564	U	2.8
3	CB	210	THR	2.8
50	BU	48	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
59	Bd	55	ARG	2.8
15	CN	94	GLU	2.8
18	AQ	61	SER	2.8
33	DB	114	SER	2.8
44	BO	120	TRP	2.8
51	DV	9	SER	2.8
1	C1	142	G	2.8
1	C1	1371	A	2.8
17	AP	114	LYS	2.8
29	D1	830	A	2.8
29	D1	2677	G	2.8
6	AE	138	LYS	2.8
9	AH	40	ALA	2.8
32	BA	145	TYR	2.8
33	BB	133	TYR	2.8
55	BZ	60	ALA	2.8
62	Bg	60	CYS	2.8
1	C1	874	C	2.8
10	AI	60	LEU	2.8
38	BG	244	ASN	2.8
1	A1	267	U	2.8
1	C1	650	U	2.8
2	CA	47	VAL	2.8
9	AH	81	VAL	2.8
10	CI	44	ARG	2.8
15	CN	108	ILE	2.8
33	BB	216	HIS	2.8
33	DB	219	ILE	2.8
41	BJ	210	ILE	2.8
46	DQ	127	ARG	2.8
52	DW	139	ILE	2.8
41	BJ	161	GLY	2.8
1	A1	1689	A	2.8
7	CF	112	SER	2.8
21	CT	99	THR	2.8
21	CT	306	THR	2.8
35	DD	106	TRP	2.8
8	AG	49	GLN	2.8
37	DF	139	LYS	2.8
37	DF	160	SER	2.8
37	DF	170	LYS	2.8
1	C1	127	G	2.8

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Mol	Chain	Res	Type	RSRZ
3	CB	143	TYR	2.8
39	DH	131	ALA	2.8
44	BO	102	ALA	2.8
14	CM	2	PRO	2.8
42	DK	118	PRO	2.8
48	DS	25	ASP	2.8
13	AL	66	LEU	2.8
37	DF	174	LEU	2.8
49	DT	89	LEU	2.8
62	Dg	22	LEU	2.8
1	A1	1426	C	2.8
29	D1	135	C	2.8
29	B1	3156	U	2.8
3	AB	83	ILE	2.8
6	AE	168	ARG	2.8
12	CK	33	ARG	2.8
13	AL	69	ILE	2.8
21	CT	90	ARG	2.8
38	BG	26	VAL	2.8
41	BJ	24	ARG	2.8
47	DR	139	ILE	2.8
54	BY	117	ARG	2.8
17	CP	70	LYS	2.8
37	DF	166	LYS	2.8
3	AB	232	GLU	2.8
9	AH	54	GLU	2.8
8	CG	77	SER	2.8
34	BC	65	SER	2.8
37	BF	21	THR	2.8
49	BT	4	SER	2.8
50	DU	131	SER	2.8
52	BW	50	ALA	2.8
35	BD	146	PRO	2.8
53	BX	25	SER	2.8
1	C1	523	G	2.8
46	BQ	53	ASP	2.8
29	B1	546	C	2.8
29	B1	1579	C	2.8
29	D1	2616	C	2.8
1	A1	1665	U	2.7
16	CO	61	ILE	2.7
8	AG	130	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
36	BE	24	ARG	2.7
38	BG	110	ARG	2.7
61	Bf	69	VAL	2.7
62	Bg	26	VAL	2.7
6	CE	100	LYS	2.7
32	BA	170	GLY	2.7
54	DY	28	HIS	2.7
8	AG	103	GLU	2.7
35	BD	189	ALA	2.7
36	DE	133	GLU	2.7
40	BI	189	GLU	2.7
44	DO	104	GLU	2.7
7	AF	143	SER	2.7
10	AI	124	THR	2.7
14	AM	5	SER	2.7
21	AT	295	SER	2.7
21	CT	171	SER	2.7
59	Bd	6	PRO	2.7
43	DN	47	ASP	2.7
48	DS	111	ASP	2.7
18	AQ	81	ARG	2.7
34	BC	336	VAL	2.7
6	AE	74	ASN	2.7
73	DM	58	MET	2.7
7	CF	96	LYS	2.7
61	Bf	13	LYS	2.7
33	BB	131	GLY	2.7
43	BN	30	GLY	2.7
50	DU	55	GLY	2.7
34	BC	338	LEU	2.7
37	BF	9	TRP	2.7
43	DN	51	ALA	2.7
57	Bb	2	ALA	2.7
36	DE	274	GLN	2.7
39	BH	123	GLN	2.7
42	BK	102	PHE	2.7
47	BR	61	PRO	2.7
10	AI	50	THR	2.7
29	B1	2549	G	2.7
15	CN	51	VAL	2.7
17	CP	83	VAL	2.7
33	DB	51	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
36	BE	72	ASP	2.7
54	DY	22	ILE	2.7
47	DR	151	ARG	2.7
15	CN	21	LYS	2.7
21	CT	118	LYS	2.7
44	BO	93	LYS	2.7
44	DO	33	LYS	2.7
15	CN	73	GLY	2.7
39	DH	145	ASN	2.7
33	BB	50	HIS	2.7
56	Ba	17	HIS	2.7
1	A1	529	A	2.7
1	C1	39	A	2.7
12	CK	53	TYR	2.7
37	DF	158	TYR	2.7
39	BH	141	ALA	2.7
43	DN	85	TRP	2.7
1	A1	278	U	2.7
1	C1	379	U	2.7
2	CA	194	PRO	2.7
29	B1	3302	U	2.7
33	BB	36	GLU	2.7
47	DR	148	GLU	2.7
62	Dg	91	GLU	2.7
43	BN	58	ILE	2.7
1	C1	228	G	2.7
4	CC	85	VAL	2.7
47	BR	99	THR	2.7
15	CN	39	SER	2.7
21	CT	316	MET	2.7
29	B1	3220	G	2.7
50	DU	128	ARG	2.7
72	DL	101	SER	2.7
40	BI	177	ASP	2.7
41	BJ	193	ASP	2.7
50	DU	27	ASP	2.7
3	AB	134	LEU	2.7
11	AJ	52	LEU	2.7
20	AS	17	GLY	2.7
21	CT	202	LEU	2.7
34	DC	225	GLY	2.7
41	BJ	125	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
49	DT	91	LEU	2.7
54	DY	36	GLY	2.7
21	CT	200	ASN	2.7
44	BO	117	ASN	2.7
1	A1	1425	A	2.7
1	C1	369	A	2.7
3	AB	124	ALA	2.7
34	BC	273	HIS	2.7
34	DC	258	ALA	2.7
29	B1	240	U	2.7
29	D1	1740	U	2.7
54	DY	79	TRP	2.7
59	Bd	49	TRP	2.7
32	DA	137	PRO	2.7
41	DJ	189	GLU	2.7
1	A1	1709	C	2.7
9	AH	111	ARG	2.7
21	CT	309	VAL	2.7
34	BC	300	ARG	2.7
35	DD	93	MET	2.7
39	BH	147	LYS	2.7
46	BQ	127	ARG	2.7
48	BS	51	VAL	2.7
56	Da	5	LYS	2.7
2	AA	169	SER	2.7
29	D1	173	G	2.7
3	AB	78	ASP	2.7
21	AT	225	LEU	2.7
21	CT	93	ASP	2.7
36	BE	171	LEU	2.7
44	DO	145	ASP	2.7
12	CK	68	GLY	2.7
39	BH	148	ALA	2.7
21	CT	174	ASN	2.7
29	B1	3163	A	2.7
29	D1	159	A	2.7
32	DA	41	TYR	2.7
40	BI	37	ASN	2.7
50	BU	33	ASN	2.7
57	Bb	92	TYR	2.7
35	DD	109	TRP	2.7
36	BE	139	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
11	AJ	22	VAL	2.7
17	CP	141	GLU	2.7
33	DB	42	ARG	2.7
34	DC	260	VAL	2.7
36	DE	270	LYS	2.7
44	DO	32	GLN	2.7
46	BQ	3	ARG	2.7
52	BW	56	ARG	2.7
54	DY	126	LYS	2.7
61	Df	76	LYS	2.7
12	CK	30	THR	2.7
56	Da	20	LEU	2.7
1	A1	1364	G	2.7
1	A1	1523	G	2.7
29	B1	3361	G	2.7
21	AT	208	GLY	2.7
59	Dd	62	GLY	2.7
61	Bf	51	GLY	2.7
1	A1	260	U	2.7
1	C1	1687	U	2.7
29	B1	3283	U	2.7
29	D1	2818	U	2.7
4	AC	114	ALA	2.7
8	AG	63	ALA	2.7
33	BB	222	ALA	2.7
35	BD	218	ALA	2.7
45	DP	183	ALA	2.7
29	D1	747	A	2.7
29	D1	2144	A	2.7
2	AA	170	ILE	2.7
33	DB	215	ASN	2.7
35	DD	196	ASN	2.7
57	Bb	6	HIS	2.7
3	CB	91	ARG	2.7
39	BH	139	VAL	2.7
52	BW	99	VAL	2.7
9	CH	61	MET	2.7
36	DE	123	GLU	2.7
41	DJ	56	GLU	2.7
56	Ba	81	GLU	2.7
3	CB	198	THR	2.7
4	CC	44	THR	2.7

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Mol	Chain	Res	Type	RSRZ
1	A1	272	U	2.7
1	A1	1228	G	2.7
21	AT	41	THR	2.7
36	DE	28	THR	2.7
7	CF	143	SER	2.7
11	AJ	73	GLY	2.7
16	CO	59	GLY	2.7
29	B1	149	U	2.7
33	DB	160	SER	2.7
35	BD	269	SER	2.7
41	BJ	201	SER	2.7
41	DJ	205	SER	2.7
52	DW	118	GLY	2.7
53	DX	94	SER	2.7
10	CI	56	PHE	2.7
11	AJ	120	ASP	2.6
21	CT	226	ALA	2.6
44	BO	55	ALA	2.6
1	A1	1193	A	2.6
5	CD	89	ILE	2.6
18	CQ	90	LYS	2.6
18	CQ	97	LYS	2.6
29	D1	3314	A	2.6
42	DK	18	VAL	2.6
43	DN	31	LYS	2.6
36	BE	107	ARG	2.6
44	DO	60	VAL	2.6
6	CE	64	GLU	2.6
8	CG	45	LEU	2.6
9	CH	110	LEU	2.6
39	BH	202	GLU	2.6
46	DQ	118	GLN	2.6
29	B1	2996	U	2.6
29	D1	2264	U	2.6
2	AA	128	SER	2.6
4	AC	17	PHE	2.6
15	CN	107	THR	2.6
8	CG	143	SER	2.6
17	CP	43	PHE	2.6
29	D1	2615	G	2.6
30	D2	91	G	2.6
34	BC	251	CYS	2.6

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Mol	Chain	Res	Type	RSRZ
57	Db	67	SER	2.6
4	CC	148	LYS	2.6
11	CJ	120	ASP	2.6
29	B1	2803	A	2.6
36	BE	229	ASP	2.6
51	BV	57	LYS	2.6
33	DB	193	ARG	2.6
36	BE	50	ARG	2.6
44	BO	60	VAL	2.6
39	DH	129	PRO	2.6
41	BJ	171	TRP	2.6
50	DU	126	TRP	2.6
36	DE	57	ASN	2.6
56	Da	80	ASN	2.6
41	DJ	215	GLU	2.6
42	DK	78	GLU	2.6
48	DS	179	GLU	2.6
36	DE	182	GLY	2.6
37	DF	163	PHE	2.6
10	AI	59	LYS	2.6
29	D1	2618	G	2.6
29	D1	2874	G	2.6
33	BB	203	ALA	2.6
37	BF	89	THR	2.6
41	BJ	143	SER	2.6
1	A1	61	A	2.6
1	C1	1193	A	2.6
34	BC	324	VAL	2.6
46	BQ	91	VAL	2.6
6	CE	76	LEU	2.6
38	DG	239	LEU	2.6
54	DY	39	HIS	2.6
60	De	44	TRP	2.6
1	C1	522	U	2.6
1	C1	1491	U	2.6
3	CB	94	GLN	2.6
12	CK	37	GLU	2.6
15	AN	83	GLU	2.6
17	AP	99	ASN	2.6
30	D2	74	C	2.6
43	DN	16	GLU	2.6
49	BT	45	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
44	DO	58	GLY	2.6
46	BQ	38	GLY	2.6
51	BV	18	GLY	2.6
53	BX	65	GLY	2.6
61	Df	14	GLY	2.6
8	CG	76	LYS	2.6
11	AJ	14	LYS	2.6
21	CT	283	LYS	2.6
41	DJ	126	ALA	2.6
54	DY	66	ALA	2.6
1	A1	142	G	2.6
1	C1	810	G	2.6
1	A1	1081	A	2.6
5	CD	156	ARG	2.6
16	AO	129	VAL	2.6
9	AH	2	SER	2.6
18	AQ	69	LEU	2.6
29	B1	1573	G	2.6
34	BC	104	THR	2.6
29	B1	121	A	2.6
29	B1	962	A	2.6
41	BJ	21	ARG	2.6
41	DJ	76	MET	2.6
41	BJ	35	ASP	2.6
54	BY	88	ASP	2.6
29	D1	1078	U	2.6
6	AE	27	GLU	2.6
8	CG	142	GLU	2.6
29	D1	2136	C	2.6
16	CO	64	GLN	2.6
21	CT	299	GLN	2.6
72	DL	9	GLU	2.6
47	DR	72	LYS	2.6
48	BS	128	LYS	2.6
73	DM	184	GLY	2.6
34	DC	335	ILE	2.6
10	AI	46	ALA	2.6
12	CK	47	ARG	2.6
18	CQ	40	VAL	2.6
46	BQ	17	ALA	2.6
48	BS	154	ALA	2.6
35	DD	187	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
37	DF	134	ARG	2.6
1	A1	656	G	2.6
1	A1	1108	G	2.6
1	C1	1493	A	2.6
54	DY	34	MET	2.6
7	CF	72	THR	2.6
10	AI	30	THR	2.6
36	DE	261	THR	2.6
34	DC	277	SER	2.6
36	DE	13	SER	2.6
29	B1	766	U	2.6
33	BB	196	TRP	2.6
21	AT	76	ASP	2.6
36	BE	29	ASP	2.6
57	Db	88	HIS	2.6
4	AC	92	GLN	2.6
11	CJ	83	GLN	2.6
12	CK	7	LYS	2.6
18	CQ	98	GLN	2.6
37	BF	129	GLU	2.6
42	DK	77	GLU	2.6
61	Df	24	LYS	2.6
34	BC	87	VAL	2.6
35	DD	72	ALA	2.6
47	DR	101	VAL	2.6
10	CI	89	MET	2.6
47	DR	111	ARG	2.6
48	BS	88	ARG	2.6
29	D1	846	A	2.6
1	A1	1558	U	2.6
1	C1	539	G	2.6
21	CT	317	THR	2.6
29	B1	1687	U	2.6
29	D1	2446	U	2.6
29	D1	2522	G	2.6
36	DE	70	THR	2.6
6	CE	87	SER	2.6
9	CH	125	SER	2.6
21	AT	166	SER	2.6
51	BV	38	SER	2.6
1	C1	883	C	2.6
29	D1	1563	C	2.6

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Mol	Chain	Res	Type	RSRZ
31	B3	151	C	2.6
39	BH	83	ASP	2.6
44	DO	130	PHE	2.6
72	DL	144	ASP	2.6
21	CT	286	GLU	2.6
35	BD	190	GLY	2.6
54	DY	20	GLY	2.6
36	BE	113	LEU	2.6
53	BX	118	LEU	2.6
56	Da	82	GLU	2.6
4	CC	122	VAL	2.6
6	AE	176	ASN	2.6
10	CI	86	VAL	2.6
10	AI	49	MET	2.6
20	AS	44	ARG	2.6
21	AT	31	ASN	2.6
36	BE	292	ALA	2.6
44	BO	144	ARG	2.6
46	DQ	81	ALA	2.6
48	DS	130	ASN	2.6
49	DT	90	ASN	2.6
50	DU	33	ASN	2.6
60	De	13	MET	2.6
1	C1	515	A	2.6
6	AE	95	TYR	2.6
29	B1	3273	A	2.6
29	B1	3274	A	2.6
29	D1	1455	U	2.6
29	D1	1760	A	2.6
10	CI	14	THR	2.6
16	CO	20	THR	2.6
21	AT	247	PRO	2.6
21	CT	168	THR	2.6
29	B1	3288	G	2.6
36	BE	132	THR	2.6
57	Db	5	PRO	2.6
18	AQ	97	LYS	2.5
44	BO	28	TRP	2.5
53	BX	14	LYS	2.5
29	B1	1562	C	2.5
29	B1	2489	C	2.5
29	D1	2265	C	2.5

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Mol	Chain	Res	Type	RSRZ
3	AB	241	ASP	2.5
36	BE	64	ILE	2.5
37	DF	63	LEU	2.5
41	BJ	99	ILE	2.5
16	AO	59	GLY	2.5
33	BB	81	GLY	2.5
72	DL	134	GLY	2.5
18	CQ	45	GLU	2.5
33	DB	116	VAL	2.5
37	BF	94	GLU	2.5
44	BO	63	ARG	2.5
44	DO	95	GLN	2.5
46	DQ	126	ARG	2.5
52	BW	107	VAL	2.5
52	DW	72	ALA	2.5
58	Bc	15	GLU	2.5
29	D1	2398	A	2.5
29	D1	2500	A	2.5
62	Dg	37	TYR	2.5
2	CA	107	PHE	2.5
11	AJ	115	THR	2.5
11	CJ	26	LYS	2.5
29	B1	1878	G	2.5
47	BR	123	THR	2.5
4	AC	84	ILE	2.5
13	AL	101	LEU	2.5
20	CS	50	ILE	2.5
33	DB	52	SER	2.5
38	BG	83	LEU	2.5
45	BP	43	ILE	2.5
54	DY	81	LEU	2.5
41	BJ	53	VAL	2.5
5	AD	210	ALA	2.5
8	AG	57	ALA	2.5
33	BB	239	ALA	2.5
39	DH	83	ASP	2.5
43	BN	51	ALA	2.5
46	DQ	128	ARG	2.5
49	BT	94	GLU	2.5
52	BW	88	MET	2.5
61	Bf	87	ARG	2.5
32	BA	11	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
72	DL	95	ASP	2.5
1	A1	1798	U	2.5
1	A1	1797	A	2.5
5	CD	103	ASN	2.5
29	B1	2727	A	2.5
56	Ba	80	ASN	2.5
57	Db	57	TYR	2.5
10	CI	52	LYS	2.5
10	CI	72	LYS	2.5
11	CJ	12	LYS	2.5
14	CM	118	PRO	2.5
48	BS	180	LYS	2.5
37	DF	112	THR	2.5
44	DO	80	THR	2.5
48	BS	4	LEU	2.5
10	AI	41	VAL	2.5
10	AI	120	SER	2.5
29	D1	132	C	2.5
29	D1	2350	C	2.5
30	D2	10	C	2.5
19	AR	18	ARG	2.5
34	BC	284	ARG	2.5
35	DD	10	SER	2.5
37	BF	82	ARG	2.5
37	BF	140	VAL	2.5
41	BJ	69	ARG	2.5
41	BJ	197	VAL	2.5
47	BR	62	VAL	2.5
48	DS	20	ARG	2.5
54	DY	16	SER	2.5
36	DE	287	ALA	2.5
1	A1	504	U	2.5
2	AA	148	ASP	2.5
16	AO	87	GLU	2.5
29	D1	118	U	2.5
49	DT	86	GLU	2.5
51	BV	32	GLN	2.5
1	A1	1219	A	2.5
29	D1	2554	A	2.5
19	AR	43	ASN	2.5
44	DO	47	LYS	2.5
32	BA	66	CYS	2.5

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Mol	Chain	Res	Type	RSRZ
21	AT	7	LEU	2.5
34	BC	215	ILE	2.5
56	Da	71	LEU	2.5
1	C1	393	C	2.5
29	B1	247	C	2.5
29	B1	779	G	2.5
29	B1	2466	G	2.5
29	D1	236	G	2.5
35	DD	250	TRP	2.5
59	Dd	49	TRP	2.5
38	DG	154	GLY	2.5
45	BP	175	THR	2.5
48	BS	9	ARG	2.5
4	CC	171	ALA	2.5
9	AH	101	ALA	2.5
9	CH	2	SER	2.5
37	BF	81	ALA	2.5
41	BJ	205	SER	2.5
48	DS	37	SER	2.5
52	BW	90	ALA	2.5
33	DB	73	GLU	2.5
36	BE	136	GLU	2.5
10	AI	72	LYS	2.5
40	DI	177	ASP	2.5
29	B1	2680	A	2.5
29	D1	848	A	2.5
29	D1	2259	A	2.5
42	BK	52	TYR	2.5
52	DW	96	LYS	2.5
15	CN	103	ILE	2.5
21	CT	115	ILE	2.5
33	BB	144	ASN	2.5
35	BD	221	ASN	2.5
46	DQ	120	ASN	2.5
16	CO	109	GLY	2.5
21	CT	181	TRP	2.5
35	BD	65	TRP	2.5
39	DH	180	VAL	2.5
50	DU	136	VAL	2.5
39	BH	236	GLY	2.5
61	Df	42	ARG	2.5
1	A1	239	C	2.5

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Mol	Chain	Res	Type	RSRZ
29	B1	1764	U	2.5
29	B1	2675	C	2.5
29	D1	2159	U	2.5
36	DE	203	HIS	2.5
53	BX	47	ALA	2.5
9	AH	11	SER	2.5
2	CA	217	GLU	2.5
11	CJ	99	GLU	2.5
15	AN	115	GLU	2.5
32	BA	196	LYS	2.5
35	DD	157	GLU	2.5
45	BP	122	GLN	2.5
6	CE	59	LEU	2.5
12	CK	34	LEU	2.5
21	AT	183	LEU	2.5
29	D1	3322	A	2.5
33	DB	176	ASP	2.5
59	Bd	47	TYR	2.5
39	BH	150	LEU	2.5
47	DR	138	LEU	2.5
2	CA	160	ILE	2.5
10	CI	84	ILE	2.5
7	AF	117	VAL	2.5
7	CF	139	VAL	2.5
21	AT	248	ASN	2.5
32	DA	138	VAL	2.5
33	DB	230	VAL	2.5
47	BR	58	ASN	2.5
54	DY	44	ASN	2.5
60	Be	33	ASN	2.5
62	Bg	49	ARG	2.5
1	A1	183	U	2.5
29	B1	3319	U	2.5
33	DB	228	GLY	2.5
50	DU	134	GLY	2.5
7	AF	92	HIS	2.5
29	D1	5	G	2.5
39	DH	148	ALA	2.5
48	BS	11	ALA	2.5
49	BT	119	ALA	2.5
39	BH	128	LYS	2.5
41	BJ	202	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
44	DO	77	LYS	2.5
54	DY	63	LYS	2.5
17	AP	47	SER	2.5
21	CT	166	SER	2.5
32	DA	20	SER	2.5
10	CI	27	GLU	2.5
10	CI	116	LEU	2.5
13	AL	15	LEU	2.5
18	CQ	51	LEU	2.5
32	BA	199	GLN	2.5
33	DB	217	GLN	2.5
35	DD	233	LEU	2.5
36	BE	237	GLU	2.5
46	BQ	139	TYR	2.5
61	Bf	82	GLN	2.5
21	CT	220	ILE	2.5
29	B1	1251	A	2.5
29	B1	1454	A	2.5
29	D1	2569	A	2.5
36	DE	190	ILE	2.5
8	CG	137	PRO	2.5
5	CD	133	VAL	2.5
1	A1	380	U	2.5
7	CF	87	ARG	2.5
9	AH	90	ARG	2.5
33	DB	113	VAL	2.5
61	Df	57	VAL	2.5
29	B1	1801	U	2.5
8	CG	139	TRP	2.5
2	AA	60	ALA	2.5
7	AF	144	ALA	2.5
29	D1	2306	C	2.5
33	DB	229	ALA	2.5
1	A1	284	G	2.5
1	C1	845	G	2.5
5	AD	41	LYS	2.5
9	AH	129	LYS	2.5
13	AL	137	HIS	2.5
29	B1	170	G	2.5
41	DJ	13	LYS	2.5
47	DR	20	LYS	2.5
49	DT	98	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
57	Bb	71	HIS	2.5
12	AK	24	LEU	2.4
13	AL	140	THR	2.4
35	DD	256	THR	2.4
4	AC	195	SER	2.4
43	DN	105	GLN	2.4
44	DO	119	TYR	2.4
29	B1	1559	A	2.4
29	B1	1588	A	2.4
2	AA	27	ARG	2.4
5	AD	98	MET	2.4
8	AG	108	ASP	2.4
13	AL	16	ARG	2.4
16	CO	129	VAL	2.4
17	CP	120	VAL	2.4
41	BJ	93	PRO	2.4
44	DO	109	ARG	2.4
48	DS	188	ASP	2.4
50	BU	58	VAL	2.4
42	DK	27	GLY	2.4
29	D1	2476	C	2.4
31	D3	35	C	2.4
33	BB	7	ASN	2.4
34	DC	287	LYS	2.4
46	BQ	120	ASN	2.4
46	DQ	64	ASN	2.4
56	Ba	15	ASN	2.4
57	Db	104	ASN	2.4
56	Da	73	LEU	2.4
13	CL	140	THR	2.4
32	BA	5	THR	2.4
36	BE	155	THR	2.4
29	B1	1025	A	2.4
35	BD	143	GLU	2.4
1	A1	134	U	2.4
1	A1	1052	U	2.4
6	AE	67	PRO	2.4
11	AJ	122	ARG	2.4
11	AJ	98	ASP	2.4
14	AM	143	ASP	2.4
9	AH	113	GLY	2.4
14	AM	120	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
36	BE	165	GLY	2.4
39	DH	120	LYS	2.4
44	BO	186	GLY	2.4
52	DW	100	LYS	2.4
1	C1	184	C	2.4
29	B1	1802	C	2.4
29	D1	1761	C	2.4
33	DB	239	ALA	2.4
34	DC	106	TRP	2.4
59	Bd	53	ALA	2.4
40	BI	118	LEU	2.4
48	DS	24	LEU	2.4
4	CC	17	PHE	2.4
10	CI	70	ASN	2.4
21	CT	159	ASN	2.4
1	A1	1130	G	2.4
12	AK	41	ILE	2.4
11	CJ	49	TYR	2.4
1	C1	71	A	2.4
4	AC	85	VAL	2.4
29	B1	783	A	2.4
15	CN	46	GLU	2.4
29	D1	558	U	2.4
29	D1	1075	A	2.4
29	D1	2458	A	2.4
47	BR	100	THR	2.4
7	AF	136	ARG	2.4
41	BJ	4	ARG	2.4
44	DO	172	ARG	2.4
45	BP	4	GLU	2.4
2	AA	26	ALA	2.4
9	AH	53	ASP	2.4
10	AI	55	GLY	2.4
13	CL	96	LYS	2.4
33	DB	244	GLY	2.4
34	DC	294	GLY	2.4
39	DH	124	ASP	2.4
29	D1	3272	C	2.4
56	Ba	20	LEU	2.4
34	DC	358	TRP	2.4
2	CA	69	ASN	2.4
3	CB	108	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
40	BI	50	ASN	2.4
47	BR	23	ASN	2.4
1	C1	821	U	2.4
1	C1	824	G	2.4
29	D1	735	A	2.4
29	D1	2095	G	2.4
29	D1	2687	G	2.4
29	D1	3302	U	2.4
34	DC	324	VAL	2.4
52	BW	86	VAL	2.4
2	CA	219	THR	2.4
32	DA	63	MET	2.4
44	BO	126	THR	2.4
56	Da	19	ARG	2.4
39	DH	208	GLU	2.4
44	BO	56	LYS	2.4
16	AO	45	GLY	2.4
33	DB	212	GLY	2.4
36	BE	149	GLY	2.4
38	BG	239	LEU	2.4
54	DY	31	GLY	2.4
45	DP	24	ALA	2.4
4	AC	166	ASP	2.4
8	AG	110	ASP	2.4
21	CT	192	PHE	2.4
29	B1	3272	C	2.4
44	BO	136	ASP	2.4
73	DM	197	PHE	2.4
13	CL	42	TYR	2.4
32	BA	21	ASN	2.4
35	BD	43	ASN	2.4
44	BO	122	ASN	2.4
57	Bb	78	ASN	2.4
1	A1	23	G	2.4
1	A1	1351	G	2.4
1	C1	525	A	2.4
21	AT	316	MET	2.4
29	B1	1282	G	2.4
29	B1	1750	A	2.4
29	D1	1200	A	2.4
29	D1	2503	G	2.4
29	D1	2619	G	2.4

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Mol	Chain	Res	Type	RSRZ
31	D3	124	G	2.4
32	BA	122	ARG	2.4
32	DA	48	ARG	2.4
52	DW	73	MET	2.4
2	CA	216	GLU	2.4
4	AC	128	GLU	2.4
8	CG	47	PRO	2.4
16	AO	18	GLU	2.4
59	Dd	33	THR	2.4
61	Df	55	LYS	2.4
8	AG	54	LEU	2.4
47	BR	32	LEU	2.4
56	Da	16	LEU	2.4
4	AC	130	GLY	2.4
56	Ba	3	GLY	2.4
11	AJ	109	PHE	2.4
47	DR	44	PHE	2.4
55	DZ	95	ALA	2.4
3	CB	144	TRP	2.4
41	BJ	31	ILE	2.4
29	D1	2472	U	2.4
29	D1	2617	U	2.4
2	AA	113	ARG	2.4
3	AB	143	TYR	2.4
4	AC	37	VAL	2.4
11	AJ	79	TYR	2.4
32	BA	87	VAL	2.4
47	DR	81	VAL	2.4
47	DR	155	MET	2.4
54	BY	87	ARG	2.4
1	A1	217	A	2.4
29	B1	2441	A	2.4
56	Da	21	HIS	2.4
29	B1	2463	G	2.4
31	B3	85	G	2.4
3	AB	120	GLU	2.4
11	AJ	104	GLU	2.4
14	AM	25	GLN	2.4
21	CT	153	GLN	2.4
42	BK	134	PRO	2.4
43	BN	65	LEU	2.4
53	BX	23	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
57	Bb	35	GLN	2.4
12	CK	40	THR	2.4
36	DE	71	GLY	2.4
45	BP	45	GLY	2.4
61	Df	65	THR	2.4
2	CA	106	SER	2.4
5	CD	208	SER	2.4
21	AT	235	SER	2.4
21	CT	83	ALA	2.4
48	DS	67	ALA	2.4
7	AF	70	ILE	2.4
21	AT	211	ILE	2.4
31	D3	106	C	2.4
34	DC	144	ILE	2.4
36	BE	60	ILE	2.4
3	AB	86	VAL	2.4
4	AC	164	VAL	2.4
8	AG	150	VAL	2.4
17	AP	100	ASP	2.4
33	DB	241	ARG	2.4
37	DF	93	VAL	2.4
55	DZ	97	ASP	2.4
45	BP	85	ARG	2.4
58	Bc	4	VAL	2.4
1	C1	1217	A	2.4
29	B1	735	A	2.4
29	D1	980	A	2.4
2	AA	35	PRO	2.3
10	AI	103	ASN	2.4
16	CO	38	LEU	2.4
33	DB	191	LEU	2.4
36	DE	81	HIS	2.4
47	DR	136	ASN	2.4
61	Bf	85	LEU	2.4
9	CH	12	GLN	2.3
29	B1	1018	G	2.3
29	B1	2121	G	2.3
53	BX	34	PRO	2.3
17	AP	129	GLY	2.3
19	CR	20	GLY	2.3
35	DD	88	GLY	2.3
36	BE	151	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
21	AT	192	PHE	2.3
21	AT	284	ALA	2.3
37	DF	21	THR	2.3
53	BX	15	ALA	2.3
1	A1	1379	C	2.3
12	CK	70	SER	2.3
29	B1	3164	C	2.3
19	AR	48	VAL	2.3
21	AT	19	TRP	2.3
5	AD	112	ARG	2.3
13	AL	110	ARG	2.3
14	AM	123	ARG	2.3
47	BR	150	VAL	2.3
55	DZ	90	VAL	2.3
21	CT	191	ASP	2.3
34	DC	360	ASP	2.3
36	BE	147	ASP	2.3
44	DO	189	LYS	2.3
48	BS	182	ASP	2.3
1	C1	811	A	2.3
6	AE	128	LEU	2.3
49	DT	34	TYR	2.3
4	AC	174	HIS	2.3
29	B1	2667	A	2.3
30	D2	64	A	2.3
37	BF	172	HIS	2.3
38	BG	186	HIS	2.3
3	CB	62	PRO	2.3
6	AE	144	PRO	2.3
10	CI	109	PRO	2.3
32	DA	62	ASN	2.3
5	AD	66	GLN	2.3
11	AJ	125	GLU	2.3
29	D1	1354	G	2.3
29	D1	2448	G	2.3
34	BC	141	GLY	2.3
38	BG	159	GLN	2.3
48	DS	113	GLY	2.3
1	C1	227	U	2.3
32	BA	71	ALA	2.3
32	DA	168	ALA	2.3
50	BU	51	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
60	Be	27	ILE	2.3
5	CD	220	VAL	2.3
21	CT	295	SER	2.3
32	DA	6	SER	2.3
44	DO	118	SER	2.3
32	BA	97	LYS	2.3
33	BB	193	ARG	2.3
37	DF	9	TRP	2.3
37	DF	173	MET	2.3
59	Bd	18	LEU	2.3
1	A1	26	A	2.3
29	B1	980	A	2.3
29	D1	1026	A	2.3
54	BY	103	ASP	2.3
72	DL	107	ASP	2.3
10	AI	87	PRO	2.3
10	CI	85	ILE	2.3
1	A1	552	G	2.3
1	A1	650	U	2.3
20	AS	15	GLY	2.3
21	CT	55	GLY	2.3
1	A1	1690	G	2.3
2	CA	60	ALA	2.3
15	AN	17	GLN	2.3
29	B1	264	G	2.3
29	B1	1029	G	2.3
29	B1	2555	G	2.3
29	D1	133	U	2.3
29	D1	1356	U	2.3
29	D1	2266	U	2.3
29	D1	3340	G	2.3
31	D3	23	U	2.3
39	DH	174	GLY	2.3
54	BY	20	GLY	2.3
36	DE	111	GLN	2.3
39	DH	155	ASN	2.3
41	DJ	219	ALA	2.3
48	BS	2	ALA	2.3
58	Dc	59	ASN	2.3
62	Bg	91	GLU	2.3
9	AH	91	THR	2.3
17	CP	32	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
29	D1	140	C	2.3
33	DB	101	VAL	2.3
48	BS	100	ARG	2.3
53	DX	90	VAL	2.3
56	Da	23	VAL	2.3
18	CQ	63	SER	2.3
33	BB	18	SER	2.3
35	DD	156	LEU	2.3
54	DY	75	LEU	2.3
36	DE	129	TYR	2.3
29	B1	2484	A	2.3
29	B1	2673	A	2.3
16	CO	113	HIS	2.3
34	DC	11	HIS	2.3
39	DH	78	PHE	2.3
49	BT	18	ASP	2.3
61	Df	58	PHE	2.3
61	Df	59	HIS	2.3
13	AL	59	GLY	2.3
40	BI	10	ILE	2.3
46	DQ	77	GLY	2.3
61	Df	47	GLN	2.3
62	Dg	35	ALA	2.3
1	C1	1521	G	2.3
5	CD	102	ARG	2.3
9	AH	92	LYS	2.3
29	B1	1063	G	2.3
29	B1	3383	G	2.3
29	D1	58	G	2.3
29	D1	1019	G	2.3
34	BC	279	ASN	2.3
35	DD	221	ASN	2.3
41	BJ	186	GLU	2.3
44	DO	122	ASN	2.3
2	AA	80	THR	2.3
13	AL	86	LEU	2.3
21	CT	81	LEU	2.3
29	B1	2572	C	2.3
29	D1	2531	C	2.3
39	DH	150	LEU	2.3
53	DX	60	ARG	2.3
54	BY	34	MET	2.3

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Mol	Chain	Res	Type	RSRZ
2	CA	138	TYR	2.3
34	DC	92	TYR	2.3
49	BT	47	SER	2.3
52	DW	130	TYR	2.3
1	C1	1559	A	2.3
29	B1	786	A	2.3
29	B1	1490	A	2.3
29	D1	607	A	2.3
1	A1	238	U	2.3
51	BV	40	PHE	2.3
40	DI	98	PRO	2.3
3	AB	177	GLY	2.3
13	AL	97	ASP	2.3
15	AN	54	GLY	2.3
34	DC	310	GLY	2.3
36	DE	127	GLY	2.3
48	DS	66	HIS	2.3
62	Dg	92	ALA	2.3
15	CN	69	LYS	2.3
39	BH	133	LYS	2.3
43	BN	20	VAL	2.3
44	BO	11	GLN	2.3
2	AA	109	ASN	2.3
21	CT	265	LEU	2.3
29	B1	304	G	2.3
29	B1	2465	G	2.3
44	BO	96	ARG	2.3
44	DO	19	LEU	2.3
53	DX	98	ASN	2.3
55	BZ	25	LEU	2.3
13	CL	129	TRP	2.3
7	CF	77	SER	2.3
14	CM	5	SER	2.3
16	AO	122	SER	2.3
29	D1	2100	A	2.3
29	D1	2401	A	2.3
32	BA	50	SER	2.3
1	A1	292	U	2.3
1	C1	664	U	2.3
9	CH	23	PHE	2.3
18	CQ	92	ILE	2.3
54	BY	148	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
2	CA	166	GLY	2.3
5	AD	188	LYS	2.3
18	AQ	99	ALA	2.3
44	DO	79	ALA	2.3
44	DO	166	ALA	2.3
62	Bg	34	HIS	2.3
4	CC	137	VAL	2.3
11	AJ	78	VAL	2.3
18	CQ	43	ASP	2.3
21	CT	114	ASP	2.3
37	BF	116	LYS	2.3
41	BJ	198	LYS	2.3
43	BN	84	LYS	2.3
4	CC	54	ARG	2.3
6	AE	174	ARG	2.3
6	CE	57	ARG	2.3
33	BB	8	GLN	2.3
33	BB	123	ARG	2.3
33	BB	163	ARG	2.3
34	BC	323	MET	2.3
41	DJ	7	ARG	2.3
46	DQ	147	GLU	2.3
2	AA	69	ASN	2.3
29	B1	1016	C	2.3
29	B1	1780	G	2.3
29	D1	1023	C	2.3
29	D1	1633	C	2.3
29	D1	2573	G	2.3
47	BR	121	CYS	2.3
12	CK	21	TYR	2.3
1	A1	1657	U	2.3
1	C1	499	U	2.3
1	C1	505	A	2.3
29	D1	1593	A	2.3
29	D1	2875	U	2.3
36	DE	200	PHE	2.3
62	Bg	78	THR	2.3
34	BC	2	SER	2.3
36	DE	197	SER	2.3
59	Bd	36	SER	2.3
72	DL	38	SER	2.3
2	CA	161	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
5	AD	101	GLY	2.3
44	BO	76	PRO	2.3
3	CB	211	LEU	2.3
8	CG	81	ALA	2.3
11	CJ	102	LYS	2.3
13	AL	102	ALA	2.3
21	AT	62	LYS	2.3
32	BA	78	LYS	2.3
34	BC	217	ALA	2.3
36	BE	131	LEU	2.3
39	BH	114	ALA	2.3
46	DQ	149	VAL	2.3
48	BS	12	ALA	2.3
60	De	18	LYS	2.3
17	CP	96	VAL	2.3
21	AT	141	LEU	2.3
32	DA	163	LEU	2.3
43	BN	60	LEU	2.3
57	Db	26	HIS	2.3
2	AA	13	ASP	2.3
5	CD	98	MET	2.3
17	CP	116	ASP	2.3
21	CT	59	ARG	2.3
33	DB	1	MET	2.3
39	BH	124	ASP	2.3
42	BK	11	ASP	2.3
35	BD	87	GLN	2.3
55	DZ	36	GLN	2.3
1	C1	1045	C	2.2
29	D1	2470	C	2.2
1	A1	642	G	2.2
1	A1	1692	G	2.2
1	C1	56	U	2.2
1	C1	680	U	2.2
5	CD	44	ASN	2.2
29	D1	1544	G	2.2
3	AB	66	PHE	2.2
29	D1	2553	U	2.2
38	DG	93	ASN	2.2
44	DO	30	TYR	2.2
12	CK	25	THR	2.2
29	B1	711	A	2.2

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Mol	Chain	Res	Type	RSRZ
29	B1	1558	A	2.2
29	B1	2456	A	2.2
29	D1	1575	A	2.2
8	AG	76	LYS	2.2
11	AJ	47	LYS	2.2
19	AR	24	GLY	2.2
38	BG	152	GLY	2.2
39	BH	213	LYS	2.2
5	AD	149	VAL	2.2
6	CE	141	VAL	2.2
21	AT	27	ALA	2.2
21	AT	81	LEU	2.2
35	BD	242	ALA	2.2
39	DH	214	LEU	2.2
52	DW	116	PRO	2.2
21	AT	262	VAL	2.2
41	DJ	127	ALA	2.2
42	DK	33	ALA	2.2
48	BS	131	ALA	2.2
58	Dc	66	VAL	2.2
9	AH	84	ARG	2.2
16	AO	78	ARG	2.2
72	DL	100	HIS	2.2
1	C1	1379	C	2.2
6	CE	153	GLU	2.2
9	AH	12	GLN	2.2
12	CK	42	GLN	2.2
16	CO	115	GLU	2.2
32	DA	199	GLN	2.2
1	A1	602	U	2.2
1	A1	710	U	2.2
30	B2	50	U	2.2
11	CJ	92	TYR	2.2
29	B1	156	G	2.2
29	B1	173	G	2.2
29	B1	2475	G	2.2
32	BA	27	ASN	2.2
32	BA	94	ASN	2.2
44	BO	90	ASN	2.2
29	D1	1858	A	2.2
33	BB	224	THR	2.2
34	BC	235	THR	2.2

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Mol	Chain	Res	Type	RSRZ
44	DO	14	LYS	2.2
54	DY	6	THR	2.2
61	Df	60	LYS	2.2
21	AT	280	GLY	2.2
33	DB	131	GLY	2.2
33	DB	159	SER	2.2
39	DH	141	ALA	2.2
41	BJ	190	VAL	2.2
54	DY	30	GLY	2.2
5	AD	163	SER	2.2
40	BI	168	ARG	2.2
56	Da	72	ARG	2.2
1	A1	321	C	2.2
1	C1	625	C	2.2
15	AN	80	GLU	2.2
29	B1	1442	U	2.2
29	D1	1759	C	2.2
31	D3	84	C	2.2
39	DH	158	ASP	2.2
42	BK	165	GLN	2.2
21	AT	278	PHE	2.2
36	BE	30	TYR	2.2
36	DE	119	TYR	2.2
41	DJ	17	TYR	2.2
43	BN	35	ILE	2.2
46	DQ	36	ILE	2.2
54	BY	129	PHE	2.2
1	A1	1601	G	2.2
1	C1	1245	G	2.2
21	CT	179	LYS	2.2
38	BG	206	LYS	2.2
48	DS	53	LYS	2.2
2	CA	9	LEU	2.2
3	CB	82	ASN	2.2
33	BB	97	ASN	2.2
2	AA	42	PRO	2.2
2	CA	112	THR	2.2
3	CB	166	THR	2.2
33	DB	27	ALA	2.2
33	DB	240	ALA	2.2
34	BC	250	ALA	2.2
35	DD	227	THR	2.2

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Mol	Chain	Res	Type	RSRZ
40	BI	109	ALA	2.2
47	DR	141	ARG	2.2
56	Ba	85	ALA	2.2
62	Bg	51	ALA	2.2
36	BE	80	SER	2.2
42	BK	26	SER	2.2
48	DS	30	SER	2.2
62	Dg	21	SER	2.2
6	CE	124	HIS	2.2
1	C1	1231	U	2.2
1	C1	1615	C	2.2
4	CC	184	ILE	2.2
11	CJ	63	ILE	2.2
29	D1	1706	C	2.2
14	AM	142	GLU	2.2
15	CN	10	GLU	2.2
35	DD	145	ILE	2.2
55	DZ	57	GLU	2.2
5	CD	45	LYS	2.2
45	BP	199	TYR	2.2
45	DP	130	LYS	2.2
35	DD	236	LEU	2.2
1	A1	1341	A	2.2
29	D1	6	A	2.2
29	D1	1065	A	2.2
29	D1	1116	G	2.2
29	D1	2727	A	2.2
36	DE	95	TRP	2.2
2	AA	51	GLY	2.2
2	AA	185	ARG	2.2
3	AB	175	GLY	2.2
4	AC	143	ARG	2.2
11	CJ	123	ARG	2.2
14	AM	118	PRO	2.2
16	CO	80	ASN	2.2
42	BK	171	VAL	2.2
17	AP	113	ALA	2.2
18	CQ	79	ALA	2.2
32	BA	10	ARG	2.2
33	DB	210	PRO	2.2
38	DG	96	PRO	2.2
44	DO	182	ASN	2.2

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Mol	Chain	Res	Type	RSRZ
53	DX	117	ALA	2.2
61	Bf	95	GLY	2.2
62	Dg	74	ALA	2.2
8	CG	61	THR	2.2
46	BQ	87	SER	2.2
52	DW	53	HIS	2.2
61	Bf	48	SER	2.2
1	C1	321	C	2.2
15	AN	20	ILE	2.2
16	AO	27	ILE	2.2
19	CR	40	ILE	2.2
45	BP	64	PHE	2.2
45	DP	73	PHE	2.2
2	CA	212	GLN	2.2
5	CD	41	LYS	2.2
10	AI	52	LYS	2.2
29	B1	1238	C	2.2
29	D1	2489	C	2.2
42	BK	156	LYS	2.2
43	BN	42	LYS	2.2
44	DO	11	GLN	2.2
3	CB	243	TYR	2.2
8	CG	56	ASP	2.2
10	CI	123	TYR	2.2
36	BE	216	GLU	2.2
45	DP	150	GLU	2.2
56	Ba	51	LEU	2.2
33	DB	208	ASP	2.2
1	C1	92	A	2.2
1	A1	1100	G	2.2
1	C1	487	G	2.2
3	CB	179	VAL	2.2
29	D1	1454	A	2.2
29	D1	1482	A	2.2
29	D1	1913	A	2.2
34	BC	122	TRP	2.2
35	BD	106	TRP	2.2
3	CB	168	ARG	2.2
9	CH	90	ARG	2.2
29	B1	94	G	2.2
29	D1	538	G	2.2
31	B3	70	G	2.2

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Mol	Chain	Res	Type	RSRZ
39	BH	196	ALA	2.2
41	BJ	76	MET	2.2
44	DO	44	ARG	2.2
56	Ba	45	GLY	2.2
60	Be	46	ARG	2.2
10	CI	67	ALA	2.2
21	AT	172	ALA	2.2
21	CT	27	ALA	2.2
33	BB	66	PRO	2.2
49	BT	53	PRO	2.2
1	A1	1579	U	2.2
2	AA	219	THR	2.2
7	CF	134	THR	2.2
29	B1	1353	U	2.2
29	B1	1549	U	2.2
29	B1	1724	U	2.2
29	D1	2506	U	2.2
38	DG	143	THR	2.2
3	AB	107	SER	2.2
15	AN	77	LYS	2.2
15	CN	22	ILE	2.2
21	CT	235	SER	2.2
32	DA	111	ILE	2.2
33	DB	106	SER	2.2
48	DS	134	HIS	2.2
7	AF	91	LEU	2.2
29	B1	3217	C	2.2
36	BE	104	LEU	2.2
54	DY	70	LYS	2.2
38	BG	25	GLN	2.2
42	BK	39	GLN	2.2
6	CE	102	GLU	2.2
21	CT	5	GLU	2.2
49	BT	118	GLU	2.2
1	A1	1244	A	2.2
29	D1	736	A	2.2
41	DJ	190	VAL	2.2
46	BQ	114	VAL	2.2
36	DE	72	ASP	2.2
41	BJ	83	ASP	2.2
44	BO	159	ARG	2.2
57	Bb	1	MET	2.2

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Mol	Chain	Res	Type	RSRZ
60	Be	44	TRP	2.2
1	A1	1435	G	2.2
10	AI	67	ALA	2.2
10	AI	99	GLY	2.2
21	CT	298	GLY	2.2
36	DE	266	ALA	2.2
41	DJ	6	ALA	2.2
48	BS	54	ALA	2.2
48	DS	183	ALA	2.2
49	BT	23	GLY	2.2
53	BX	79	ALA	2.2
56	Ba	88	PRO	2.2
29	D1	2328	U	2.2
21	AT	159	ASN	2.2
34	DC	331	ASN	2.2
42	DK	150	ASN	2.2
10	CI	33	PHE	2.2
9	CH	70	LYS	2.2
47	DR	86	THR	2.2
61	Df	84	THR	2.2
21	AT	33	LEU	2.2
32	BA	90	LEU	2.2
55	DZ	104	LEU	2.2
6	CE	21	SER	2.2
34	DC	45	SER	2.2
54	BY	93	SER	2.2
9	AH	99	GLN	2.2
12	AK	42	GLN	2.2
16	CO	25	VAL	2.2
33	BB	217	GLN	2.2
36	BE	198	TYR	2.2
39	BH	151	VAL	2.2
42	DK	15	GLU	2.2
43	BN	15	VAL	2.2
1	A1	515	A	2.2
1	A1	1691	A	2.2
1	C1	41	A	2.2
1	C1	856	A	2.2
4	CC	90	ARG	2.2
21	AT	92	TRP	2.2
29	D1	2456	A	2.2
38	BG	243	MET	2.2

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Mol	Chain	Res	Type	RSRZ
39	BH	249	ARG	2.2
44	DO	28	TRP	2.2
2	AA	200	ASP	2.1
6	CE	181	ALA	2.1
11	CJ	86	ALA	2.1
29	B1	2860	U	2.1
32	BA	131	ALA	2.1
33	DB	162	ALA	2.1
36	DE	284	ALA	2.1
41	DJ	118	ALA	2.1
57	Bb	5	PRO	2.1
1	C1	557	G	2.1
29	B1	1560	G	2.1
14	AM	21	PHE	2.1
17	AP	39	LYS	2.1
41	DJ	203	LYS	2.1
46	DQ	76	PHE	2.1
48	DS	180	LYS	2.1
34	DC	95	THR	2.1
62	Dg	46	THR	2.1
1	A1	658	C	2.1
19	CR	37	SER	2.1
32	DA	64	SER	2.1
13	CL	98	TYR	2.1
33	BB	148	VAL	2.1
41	DJ	53	VAL	2.1
1	A1	104	A	2.1
1	A1	1421	A	2.1
6	AE	31	ALA	2.1
21	AT	119	ALA	2.1
29	D1	262	U	2.1
33	BB	26	ALA	2.1
39	BH	244	ALA	2.1
39	DH	135	GLY	2.1
41	DJ	218	ALA	2.1
55	DZ	21	GLY	2.1
62	Dg	53	GLY	2.1
18	AQ	67	ASP	2.1
33	DB	65	ASP	2.1
29	B1	3318	G	2.1
29	B1	3345	G	2.1
29	D1	609	G	2.1

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Mol	Chain	Res	Type	RSRZ
29	D1	1758	G	2.1
29	D1	2574	G	2.1
34	BC	47	LEU	2.1
36	BE	92	LEU	2.1
36	BE	254	LYS	2.1
57	Db	34	LYS	2.1
57	Db	72	LYS	2.1
9	AH	3	ASN	2.1
32	BA	40	ASN	2.1
4	AC	41	VAL	2.1
16	CO	121	VAL	2.1
32	BA	9	VAL	2.1
32	DA	140	HIS	2.1
33	DB	61	VAL	2.1
34	DC	243	HIS	2.1
35	DD	272	VAL	2.1
44	BO	121	VAL	2.1
46	DQ	133	HIS	2.1
48	DS	17	VAL	2.1
33	BB	159	SER	2.1
35	BD	195	ARG	2.1
41	BJ	157	TYR	2.1
55	BZ	23	TYR	2.1
55	DZ	98	SER	2.1
1	A1	125	U	2.1
1	A1	603	U	2.1
1	A1	754	A	2.1
1	C1	1240	U	2.1
1	C1	1558	U	2.1
3	CB	246	GLU	2.1
5	AD	183	ALA	2.1
5	CD	52	GLU	2.1
29	B1	2460	U	2.1
29	B1	2464	U	2.1
29	D1	2626	A	2.1
31	B3	74	U	2.1
5	CD	154	ALA	2.1
6	CE	185	GLY	2.1
35	BD	250	TRP	2.1
57	Bb	37	GLY	2.1
2	AA	111	ILE	2.1
3	AB	88	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
4	AC	78	LYS	2.1
15	CN	19	ILE	2.1
15	CN	41	ILE	2.1
20	AS	30	LEU	2.1
40	BI	187	ILE	2.1
54	DY	118	ILE	2.1
9	CH	124	ASP	2.1
1	A1	1212	G	2.1
29	B1	2584	G	2.1
29	B1	2922	G	2.1
29	B1	3144	G	2.1
29	D1	2534	G	2.1
7	CF	138	ASN	2.1
8	AG	151	ASN	2.1
5	CD	125	THR	2.1
29	B1	2560	C	2.1
30	B2	40	C	2.1
40	BI	16	VAL	2.1
41	BJ	96	VAL	2.1
53	BX	90	VAL	2.1
54	DY	101	VAL	2.1
60	Be	43	ASN	2.1
1	A1	1059	U	2.1
1	C1	781	U	2.1
1	C1	873	U	2.1
9	AH	58	TYR	2.1
36	DE	153	THR	2.1
37	DF	152	THR	2.1
73	DM	16	ARG	2.1
29	B1	2617	U	2.1
29	B1	3352	U	2.1
3	CB	60	SER	2.1
11	AJ	61	SER	2.1
15	CN	38	SER	2.1
10	AI	71	GLU	2.1
13	AL	83	ALA	2.1
16	CO	21	GLY	2.1
18	AQ	76	ALA	2.1
34	DC	107	ALA	2.1
36	BE	130	GLU	2.1
44	DO	55	ALA	2.1
44	BO	128	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
48	DS	187	GLU	2.1
55	BZ	105	ALA	2.1
57	Bb	58	GLY	2.1
21	CT	223	TRP	2.1
3	CB	234	PRO	2.1
34	BC	96	PRO	2.1
34	DC	25	ILE	2.1
39	DH	82	LEU	2.1
46	DQ	63	PHE	2.1
1	A1	96	G	2.1
1	A1	853	G	2.1
1	A1	1548	G	2.1
1	C1	290	G	2.1
1	C1	1299	G	2.1
29	B1	547	G	2.1
40	DI	12	VAL	2.1
73	DM	41	VAL	2.1
1	C1	191	C	2.1
1	C1	559	C	2.1
1	C1	1413	U	2.1
5	CD	157	ARG	2.1
9	CH	107	ARG	2.1
10	CI	49	MET	2.1
13	AL	120	ARG	2.1
29	B1	2821	C	2.1
15	AN	48	HIS	2.1
29	B1	134	U	2.1
29	B1	1014	U	2.1
43	BN	77	ARG	2.1
44	BO	38	ARG	2.1
61	Df	80	ARG	2.1
36	DE	45	ASN	2.1
57	Db	31	ASN	2.1
43	BN	78	THR	2.1
62	Bg	37	TYR	2.1
1	A1	425	A	2.1
3	CB	164	SER	2.1
5	AD	155	ALA	2.1
5	CD	158	GLN	2.1
9	CH	97	GLY	2.1
4	AC	115	ILE	2.1
5	CD	223	SER	2.1

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Mol	Chain	Res	Type	RSRZ
6	AE	177	ALA	2.1
11	CJ	132	LYS	2.1
13	CL	95	GLY	2.1
21	CT	204	ALA	2.1
29	D1	1557	A	2.1
36	BE	138	GLY	2.1
34	DC	24	SER	2.1
36	BE	13	SER	2.1
36	DE	32	GLN	2.1
37	BF	144	ALA	2.1
47	DR	118	GLY	2.1
47	DR	146	SER	2.1
55	DZ	54	SER	2.1
17	AP	118	PRO	2.1
34	BC	18	PRO	2.1
9	AH	4	VAL	2.1
1	C1	501	U	2.1
1	C1	656	G	2.1
29	B1	774	G	2.1
29	B1	2752	U	2.1
29	D1	916	G	2.1
36	BE	213	ASP	2.1
40	BI	12	VAL	2.1
42	DK	69	VAL	2.1
44	DO	124	ASP	2.1
49	BT	33	VAL	2.1
30	D2	90	U	2.1
40	DI	1	MET	2.1
8	CG	151	ASN	2.1
10	CI	114	HIS	2.1
37	DF	54	TYR	2.1
19	CR	51	ASN	2.1
21	AT	198	ASN	2.1
33	DB	132	ASN	2.1
34	BC	295	ALA	2.1
36	DE	227	LEU	2.1
37	BF	145	LEU	2.1
37	DF	72	ASN	2.1
54	DY	41	HIS	2.1
45	BP	197	LEU	2.1
49	DT	85	LEU	2.1
55	DZ	64	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
59	Dd	13	ASN	2.1
2	CA	100	GLY	2.1
8	AG	41	ALA	2.1
9	AH	75	GLY	2.1
29	B1	913	A	2.1
39	DH	125	ALA	2.1
40	BI	95	ALA	2.1
50	BU	100	GLY	2.1
50	DU	100	GLY	2.1
15	CN	17	GLN	2.1
48	BS	50	ILE	2.1
61	Bf	53	GLN	2.1
3	AB	85	PRO	2.1
33	DB	36	GLU	2.1
52	DW	87	SER	2.1
54	BY	131	SER	2.1
1	A1	657	U	2.1
29	D1	2269	U	2.1
38	DG	26	VAL	2.1
40	BI	82	VAL	2.1
32	BA	26	ARG	2.1
42	BK	10	ARG	2.1
60	De	42	ARG	2.1
1	A1	574	G	2.1
4	CC	166	ASP	2.1
32	BA	46	ASP	2.1
48	DS	116	ASP	2.1
1	C1	455	C	2.1
9	CH	49	LYS	2.1
11	AJ	49	TYR	2.1
29	D1	2568	C	2.1
36	DE	198	TYR	2.1
40	DI	2	LYS	2.1
44	DO	139	HIS	2.1
52	BW	108	LEU	2.1
59	Dd	68	LYS	2.1
7	CF	104	HIS	2.1
1	A1	793	A	2.1
9	AH	23	PHE	2.1
16	AO	96	ALA	2.1
17	CP	129	GLY	2.1
20	AS	27	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
10	CI	74	ALA	2.1
21	AT	138	GLY	2.1
21	CT	296	ALA	2.1
29	B1	3347	A	2.1
17	CP	36	THR	2.1
32	BA	62	ASN	2.1
39	DH	184	ALA	2.1
44	BO	69	GLY	2.1
33	DB	17	THR	2.1
34	DC	54	THR	2.1
37	BF	152	THR	2.1
40	BI	77	ASN	2.1
45	BP	30	GLY	2.1
73	DM	181	PHE	2.1
2	AA	207	PRO	2.1
16	CO	18	GLU	2.1
18	CQ	53	GLU	2.1
21	CT	276	PRO	2.1
54	BY	65	GLN	2.1
54	BY	83	PRO	2.1
34	BC	156	SER	2.1
41	DJ	54	SER	2.1
1	A1	1491	U	2.1
19	AR	15	VAL	2.1
29	D1	2268	U	2.1
47	DR	66	ARG	2.0
48	BS	74	ARG	2.0
1	A1	516	G	2.0
1	A1	1521	G	2.0
1	C1	131	C	2.0
1	C1	987	G	2.0
1	C1	1698	G	2.0
13	CL	94	ASP	2.0
16	AO	101	TYR	2.0
29	B1	176	G	2.0
35	DD	169	LEU	2.0
49	BT	120	LYS	2.0
1	A1	62	A	2.0
2	AA	85	ALA	2.0
7	AF	126	GLY	2.0
14	CM	98	GLY	2.0
21	AT	11	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
33	DB	50	HIS	2.0
39	BH	210	ALA	2.0
41	BJ	95	HIS	2.0
42	BK	105	GLY	2.0
44	BO	174	ILE	2.0
46	BQ	5	GLY	2.0
46	BQ	26	PHE	2.0
46	DQ	67	ILE	2.0
49	DT	81	GLY	2.0
54	BY	110	GLY	2.0
54	DY	67	HIS	2.0
3	CB	204	THR	2.0
32	DA	188	ASN	2.0
32	DA	200	ASN	2.0
21	AT	313	TRP	2.0
21	CT	300	THR	2.0
35	BD	213	ASN	2.0
44	DO	126	THR	2.0
46	DQ	125	GLN	2.0
48	DS	23	TRP	2.0
58	Dc	8	GLU	2.0
3	CB	121	VAL	2.0
15	AN	38	SER	2.0
21	AT	82	SER	2.0
29	B1	1241	U	2.0
29	D1	2137	U	2.0
29	D1	3283	U	2.0
35	DD	267	VAL	2.0
49	BT	99	SER	2.0
52	BW	48	SER	2.0
55	BZ	9	SER	2.0
15	CN	68	ARG	2.0
5	AD	45	LYS	2.0
21	AT	179	LYS	2.0
47	BR	52	LEU	2.0
54	BY	91	LEU	2.0
1	A1	653	C	2.0
1	C1	405	C	2.0
29	D1	3154	C	2.0
29	D1	383	G	2.0
29	D1	2465	G	2.0
29	D1	3197	G	2.0

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Mol	Chain	Res	Type	RSRZ
46	BQ	113	TYR	2.0
49	BT	34	TYR	2.0
55	DZ	23	TYR	2.0
9	CH	88	GLY	2.0
18	CQ	73	GLY	2.0
32	DA	37	GLY	2.0
33	DB	105	GLY	2.0
41	BJ	172	GLY	2.0
29	D1	3274	A	2.0
57	Db	29	ALA	2.0
10	CI	68	PRO	2.0
2	CA	74	VAL	2.0
4	CC	26	THR	2.0
21	AT	203	THR	2.0
29	B1	698	U	2.0
34	BC	345	ASN	2.0
35	BD	40	THR	2.0
53	BX	98	ASN	2.0
57	Db	86	THR	2.0
61	Bf	22	GLN	2.0
62	Bg	90	VAL	2.0
72	DL	129	THR	2.0
8	AG	55	ARG	2.0
51	DV	1	MET	2.0
7	CF	79	LYS	2.0
32	DA	147	LYS	2.0
33	DB	223	SER	2.0
44	BO	77	LYS	2.0
59	Dd	36	SER	2.0
62	Dg	40	SER	2.0
1	C1	186	C	2.0
1	C1	682	C	2.0
2	CA	144	ILE	2.0
57	Db	117	ILE	2.0
9	AH	69	ALA	2.0
1	A1	623	A	2.0
1	A1	732	G	2.0
1	C1	1228	G	2.0
21	CT	75	ALA	2.0
29	B1	330	G	2.0
34	DC	250	ALA	2.0
17	AP	97	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
29	D1	438	A	2.0
48	BS	111	ASP	2.0
48	DS	121	HIS	2.0
73	DM	31	ASP	2.0
1	C1	292	U	2.0
29	B1	2521	U	2.0
37	BF	153	PRO	2.0
21	AT	181	TRP	2.0
32	BA	8	GLN	2.0
37	DF	94	GLU	2.0
42	DK	38	GLU	2.0
44	DO	112	ASN	2.0
55	BZ	14	LEU	2.0
37	BF	162	SER	2.0
73	DM	199	SER	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

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
74	OHX	C1	1998	7/7	0.26	0.63	129,129,129,129	7
74	OHX	A1	1983	7/7	0.30	0.69	122,122,122,122	7
74	OHX	B1	3554	7/7	0.44	0.50	156,156,156,156	7
74	OHX	B1	3548	7/7	0.46	0.47	153,153,153,153	7
74	OHX	D1	3586	7/7	0.46	0.64	115,115,115,115	7
74	OHX	C1	1989	7/7	0.48	0.53	114,114,114,114	7
74	OHX	B1	3613	7/7	0.51	0.55	93,93,93,93	7
74	OHX	B1	3608	7/7	0.56	0.53	75,75,75,75	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3599	7/7	0.58	0.40	87,87,87,87	7
74	OHX	D1	3535	7/7	0.59	0.58	142,142,142,142	7
74	OHX	B1	3592	7/7	0.60	0.66	106,106,106,106	7
74	OHX	A1	1993	7/7	0.60	0.43	108,108,108,108	7
74	OHX	B1	3577	7/7	0.62	0.57	148,148,148,148	7
74	OHX	D1	3564	7/7	0.62	0.40	85,85,85,85	7
74	OHX	D1	3490	7/7	0.62	0.39	167,167,167,167	7
74	OHX	D1	3616	7/7	0.62	0.43	150,150,150,150	7
74	OHX	D1	3601	7/7	0.63	0.67	99,99,99,99	7
74	OHX	A1	1964	7/7	0.63	0.40	85,85,85,85	7
74	OHX	B1	3552	7/7	0.64	0.39	138,138,138,138	7
74	OHX	D1	3605	7/7	0.64	0.52	93,93,93,93	7
74	OHX	B1	3600	7/7	0.64	0.36	135,135,135,135	7
74	OHX	C1	1974	7/7	0.65	0.45	118,118,118,118	7
74	OHX	A1	1966	7/7	0.65	0.43	120,120,120,120	7
74	OHX	D1	3541	7/7	0.66	0.47	141,141,141,141	7
74	OHX	A1	1925	7/7	0.66	0.38	165,165,165,165	7
74	OHX	C1	1991	7/7	0.66	0.49	77,77,77,77	7
74	OHX	B1	3535	7/7	0.66	0.38	170,170,170,170	7
74	OHX	C1	1956	7/7	0.66	0.37	170,170,170,170	7
74	OHX	B1	3589	7/7	0.66	0.71	85,85,85,85	7
74	OHX	C1	1950	7/7	0.67	0.28	215,215,215,215	7
74	OHX	D1	3609	7/7	0.67	0.36	73,73,73,73	7
74	OHX	A1	1954	7/7	0.67	0.30	153,153,153,153	7
74	OHX	D3	206	7/7	0.67	0.42	77,77,77,77	7
74	OHX	B2	208	7/7	0.68	0.59	152,152,152,152	7
74	OHX	C1	1978	7/7	0.68	0.41	145,145,145,145	7
74	OHX	B2	210	7/7	0.68	0.56	131,131,131,131	7
74	OHX	B1	3574	7/7	0.69	0.34	136,136,136,136	7
74	OHX	C1	1985	7/7	0.70	0.42	153,153,153,153	7
74	OHX	D1	3550	7/7	0.70	0.39	100,100,100,100	7
74	OHX	C1	1988	7/7	0.70	0.42	146,146,146,146	7
74	OHX	B1	3502	7/7	0.70	0.39	166,166,166,166	7
74	OHX	D1	3599	7/7	0.70	0.32	93,93,93,93	7
74	OHX	B2	207	7/7	0.70	0.46	104,104,104,104	7
74	OHX	A1	1953	7/7	0.70	0.49	122,122,122,122	7
74	OHX	C1	1976	7/7	0.70	0.44	118,118,118,118	7
74	OHX	D1	3610	7/7	0.70	0.63	94,94,94,94	7
74	OHX	D1	3519	7/7	0.70	0.45	111,111,111,111	7
74	OHX	A1	1974	7/7	0.70	0.54	136,136,136,136	7
74	OHX	D1	3544	7/7	0.71	0.36	127,127,127,127	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3544	7/7	0.71	0.35	130,130,130,130	7
74	OHX	D1	3525	7/7	0.71	0.31	106,106,106,106	7
74	OHX	D1	3622	7/7	0.71	0.32	142,142,142,142	7
74	OHX	D1	3568	7/7	0.71	0.55	92,92,92,92	7
74	OHX	C1	1965	7/7	0.72	0.37	101,101,101,101	7
74	OHX	C1	1966	7/7	0.72	0.38	127,127,127,127	7
74	OHX	B1	3534	7/7	0.72	0.32	128,128,128,128	7
74	OHX	D1	3623	7/7	0.72	0.57	23,23,23,23	7
74	OHX	D1	3524	7/7	0.72	0.38	162,162,162,162	7
74	OHX	A1	1995	7/7	0.73	0.40	80,80,80,80	7
74	OHX	B1	3581	7/7	0.73	0.35	106,106,106,106	7
74	OHX	D1	3603	7/7	0.73	0.41	114,114,114,114	7
74	OHX	D1	3542	7/7	0.73	0.28	198,198,198,198	7
74	OHX	D1	3507	7/7	0.73	0.39	133,133,133,133	7
74	OHX	A1	1997	7/7	0.74	0.35	100,100,100,100	7
74	OHX	B3	206	7/7	0.74	0.22	201,201,201,201	7
74	OHX	D1	3522	7/7	0.74	0.41	133,133,133,133	7
74	OHX	D1	3555	7/7	0.74	0.46	150,150,150,150	7
74	OHX	A1	1978	7/7	0.74	0.49	139,139,139,139	7
74	OHX	A1	1958	7/7	0.74	0.31	116,116,116,116	7
74	OHX	D1	3578	7/7	0.74	0.46	222,222,222,222	7
74	OHX	B1	3603	7/7	0.74	0.23	63,63,63,63	7
74	OHX	D1	3506	7/7	0.74	0.47	131,131,131,131	7
74	OHX	D3	211	7/7	0.74	0.34	137,137,137,137	7
74	OHX	D1	3593	7/7	0.75	0.48	99,99,99,99	7
74	OHX	B1	3523	7/7	0.75	0.31	150,150,150,150	7
74	OHX	B1	3557	7/7	0.75	0.37	46,46,46,46	7
74	OHX	B1	3545	7/7	0.75	0.42	82,82,82,82	7
74	OHX	D1	3587	7/7	0.76	0.62	111,111,111,111	7
74	OHX	B1	3533	7/7	0.76	0.45	149,149,149,149	7
74	OHX	BO	301	7/7	0.76	0.47	110,110,110,110	7
74	OHX	D1	3505	7/7	0.76	0.35	160,160,160,160	7
74	OHX	A1	1996	7/7	0.76	0.45	100,100,100,100	7
74	OHX	B1	3515	7/7	0.76	0.43	119,119,119,119	7
74	OHX	C1	1957	7/7	0.76	0.41	226,226,226,226	7
74	OHX	D1	3559	7/7	0.76	0.29	116,116,116,116	7
74	OHX	A1	1998	7/7	0.76	0.58	125,125,125,125	7
74	OHX	D1	3566	7/7	0.76	0.32	88,88,88,88	7
74	OHX	B1	3584	7/7	0.76	0.44	99,99,99,99	7
74	OHX	C1	1996	7/7	0.76	0.45	86,86,86,86	7
74	OHX	D1	3529	7/7	0.76	0.35	130,130,130,130	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	DJ	301	7/7	0.76	0.26	138,138,138,138	7
74	OHX	A1	1988	7/7	0.77	0.47	25,25,25,25	7
74	OHX	A1	1970	7/7	0.77	0.29	66,66,66,66	7
74	OHX	B1	3546	7/7	0.77	0.32	148,148,148,148	7
74	OHX	B1	3602	7/7	0.77	0.40	75,75,75,75	7
74	OHX	A1	1963	7/7	0.77	0.38	137,137,137,137	7
74	OHX	D1	3595	7/7	0.77	0.41	90,90,90,90	7
74	OHX	D2	208	7/7	0.77	0.39	105,105,105,105	7
74	OHX	D3	205	7/7	0.77	0.23	199,199,199,199	7
74	OHX	D1	3475	7/7	0.77	0.37	142,142,142,142	7
74	OHX	B1	3539	7/7	0.77	0.32	137,137,137,137	7
74	OHX	B1	3542	7/7	0.77	0.47	64,64,64,64	7
74	OHX	D1	3611	7/7	0.78	0.30	82,82,82,82	7
74	OHX	D1	3556	7/7	0.78	0.37	146,146,146,146	7
74	OHX	D1	3618	7/7	0.78	0.26	62,62,62,62	7
74	OHX	C1	1980	7/7	0.78	0.47	162,162,162,162	7
74	OHX	B1	3609	7/7	0.78	0.49	80,80,80,80	7
74	OHX	B1	3510	7/7	0.78	0.36	153,153,153,153	7
74	OHX	B2	203	7/7	0.78	0.40	174,174,174,174	7
74	OHX	D1	3545	7/7	0.78	0.47	77,77,77,77	7
74	OHX	A1	2002	7/7	0.78	0.39	185,185,185,185	7
74	OHX	C1	1995	7/7	0.78	0.43	51,51,51,51	7
74	OHX	B1	3568	7/7	0.79	0.26	94,94,94,94	7
74	OHX	B1	3555	7/7	0.79	0.41	103,103,103,103	7
74	OHX	B2	209	7/7	0.79	0.34	148,148,148,148	7
74	OHX	B1	3551	7/7	0.79	0.54	84,84,84,84	7
74	OHX	C1	1962	7/7	0.79	0.31	180,180,180,180	7
74	OHX	D1	3509	7/7	0.79	0.44	120,120,120,120	7
74	OHX	B2	205	7/7	0.79	0.30	159,159,159,159	7
74	OHX	D1	3573	7/7	0.79	0.46	135,135,135,135	7
74	OHX	D3	208	7/7	0.79	0.33	135,135,135,135	7
74	OHX	C1	2000	7/7	0.79	0.40	82,82,82,82	7
74	OHX	D1	3585	7/7	0.79	0.28	102,102,102,102	7
74	OHX	A1	1991	7/7	0.80	0.40	98,98,98,98	7
74	OHX	B1	3511	7/7	0.80	0.31	160,160,160,160	7
74	OHX	D1	3516	7/7	0.80	0.43	138,138,138,138	7
74	OHX	B1	3611	7/7	0.80	0.34	68,68,68,68	7
74	OHX	A1	1999	7/7	0.80	0.27	99,99,99,99	7
74	OHX	D2	207	7/7	0.80	0.30	111,111,111,111	7
74	OHX	C1	1975	7/7	0.80	0.35	119,119,119,119	7
74	OHX	B3	209	7/7	0.80	0.34	99,99,99,99	7
74	OHX	B1	3621	7/7	0.80	0.29	83,83,83,83	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3504	7/7	0.80	0.35	140,140,140,140	7
74	OHX	D3	210	7/7	0.80	0.28	74,74,74,74	7
74	OHX	B1	3528	7/7	0.80	0.35	158,158,158,158	7
74	OHX	B1	3506	7/7	0.80	0.41	53,53,53,53	7
74	OHX	D1	3569	7/7	0.81	0.35	88,88,88,88	7
74	OHX	A1	1930	7/7	0.81	0.38	228,228,228,228	7
74	OHX	B3	210	7/7	0.81	0.38	64,64,64,64	7
74	OHX	B1	3570	7/7	0.81	0.37	91,91,91,91	7
74	OHX	B1	3594	7/7	0.81	0.36	100,100,100,100	7
74	OHX	B1	3532	7/7	0.81	0.31	172,172,172,172	7
74	OHX	D1	3590	7/7	0.81	0.47	55,55,55,55	7
74	OHX	B1	3575	7/7	0.81	0.36	123,123,123,123	7
74	OHX	B1	3601	7/7	0.81	0.69	158,158,158,158	7
74	OHX	B1	3520	7/7	0.81	0.39	109,109,109,109	7
74	OHX	A1	1947	7/7	0.81	0.34	143,143,143,143	7
74	OHX	B1	3582	7/7	0.81	0.40	83,83,83,83	7
74	OHX	B1	3560	7/7	0.81	0.40	105,105,105,105	7
74	OHX	D1	3471	7/7	0.81	0.31	260,260,260,260	7
74	OHX	B1	3617	7/7	0.82	0.32	90,90,90,90	7
74	OHX	C1	1981	7/7	0.82	0.25	87,87,87,87	7
74	OHX	A1	1940	7/7	0.82	0.34	166,166,166,166	7
74	OHX	C1	1987	7/7	0.82	0.24	108,108,108,108	7
74	OHX	B1	3514	7/7	0.82	0.26	123,123,123,123	7
74	OHX	D1	3614	7/7	0.82	0.48	83,83,83,83	7
74	OHX	D1	3574	7/7	0.82	0.37	114,114,114,114	7
74	OHX	A1	1989	7/7	0.82	0.43	70,70,70,70	7
74	OHX	D1	3580	7/7	0.82	0.36	114,114,114,114	7
74	OHX	B1	3610	7/7	0.82	0.32	68,68,68,68	7
74	OHX	D2	204	7/7	0.82	0.30	116,116,116,116	7
74	OHX	B1	3530	7/7	0.82	0.34	138,138,138,138	7
74	OHX	D1	3549	7/7	0.82	0.25	127,127,127,127	7
74	OHX	D1	3513	7/7	0.82	0.35	160,160,160,160	7
74	OHX	D1	3552	7/7	0.82	0.41	115,115,115,115	7
74	OHX	C1	1952	7/7	0.82	0.28	239,239,239,239	7
74	OHX	B1	3565	7/7	0.82	0.30	120,120,120,120	7
74	OHX	D1	3600	7/7	0.82	0.25	96,96,96,96	7
74	OHX	C1	1999	7/7	0.82	0.32	41,41,41,41	7
74	OHX	A1	1977	7/7	0.83	0.34	119,119,119,119	7
74	OHX	CT	401	7/7	0.83	0.27	117,117,117,117	7
74	OHX	D1	3548	7/7	0.83	0.36	77,77,77,77	7
74	OHX	D2	209	7/7	0.83	0.38	74,74,74,74	7
74	OHX	D1	3457	7/7	0.83	0.31	130,130,130,130	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	C1	1959	7/7	0.83	0.32	166,166,166,166	7
74	OHX	A1	1965	7/7	0.83	0.30	114,114,114,114	7
74	OHX	D1	3538	7/7	0.83	0.37	87,87,87,87	7
74	OHX	B1	3616	7/7	0.83	0.41	103,103,103,103	7
74	OHX	D1	3498	7/7	0.83	0.35	103,103,103,103	7
74	OHX	Dd	102	7/7	0.83	0.29	118,118,118,118	7
74	OHX	B1	3580	7/7	0.84	0.34	84,84,84,84	7
74	OHX	B1	3619	7/7	0.84	0.34	85,85,85,85	7
74	OHX	A1	1973	7/7	0.84	0.29	101,101,101,101	7
74	OHX	D1	3558	7/7	0.84	0.34	127,127,127,127	7
74	OHX	C1	1919	7/7	0.84	0.34	159,159,159,159	7
74	OHX	D1	3521	7/7	0.84	0.20	163,163,163,163	7
74	OHX	C1	1940	7/7	0.84	0.31	139,139,139,139	7
74	OHX	B1	3481	7/7	0.84	0.34	133,133,133,133	7
74	OHX	D1	3466	7/7	0.84	0.27	103,103,103,103	7
74	OHX	B1	3490	7/7	0.84	0.31	109,109,109,109	7
74	OHX	D1	3534	7/7	0.84	0.32	142,142,142,142	7
74	OHX	B1	3493	7/7	0.84	0.25	135,135,135,135	7
74	OHX	D1	3579	7/7	0.84	0.41	44,44,44,44	7
74	OHX	D1	3481	7/7	0.84	0.27	137,137,137,137	7
74	OHX	A1	1967	7/7	0.84	0.42	96,96,96,96	7
74	OHX	D1	3497	7/7	0.84	0.36	99,99,99,99	7
74	OHX	C1	1958	7/7	0.84	0.30	153,153,153,153	7
74	OHX	D1	3500	7/7	0.84	0.36	139,139,139,139	7
74	OHX	D1	3546	7/7	0.84	0.30	105,105,105,105	7
74	OHX	B1	3538	7/7	0.84	0.36	93,93,93,93	7
74	OHX	A1	1984	7/7	0.84	0.20	65,65,65,65	7
74	OHX	A1	1952	7/7	0.84	0.36	110,110,110,110	7
74	OHX	D1	3613	7/7	0.85	0.38	57,57,57,57	7
74	OHX	B1	3472	7/7	0.85	0.34	132,132,132,132	7
74	OHX	D1	3526	7/7	0.85	0.26	158,158,158,158	7
74	OHX	B1	3556	7/7	0.85	0.43	104,104,104,104	7
74	OHX	B1	3571	7/7	0.85	0.37	176,176,176,176	7
74	OHX	D1	3592	7/7	0.85	0.36	118,118,118,118	7
74	OHX	D1	3625	7/7	0.85	0.40	100,100,100,100	7
74	OHX	C1	2001	7/7	0.85	0.29	130,130,130,130	7
74	OHX	C1	1986	7/7	0.85	0.23	169,169,169,169	7
74	OHX	D1	3596	7/7	0.85	0.32	114,114,114,114	7
74	OHX	A1	2000	7/7	0.85	0.35	75,75,75,75	7
74	OHX	C1	1972	7/7	0.85	0.41	216,216,216,216	7
74	OHX	D1	3515	7/7	0.85	0.20	173,173,173,173	7
74	OHX	B1	3558	7/7	0.85	0.27	130,130,130,130	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3620	7/7	0.85	0.27	58,58,58,58	7
74	OHX	A1	1946	7/7	0.85	0.30	153,153,153,153	7
74	OHX	B1	3541	7/7	0.85	0.39	117,117,117,117	7
74	OHX	C1	1997	7/7	0.85	0.26	36,36,36,36	7
74	OHX	A1	1982	7/7	0.86	0.34	148,148,148,148	7
74	OHX	B3	212	7/7	0.86	0.27	98,98,98,98	7
74	OHX	B1	3618	7/7	0.86	0.36	109,109,109,109	7
74	OHX	D1	3602	7/7	0.86	0.45	109,109,109,109	7
74	OHX	D1	3517	7/7	0.86	0.31	126,126,126,126	7
74	OHX	D1	3557	7/7	0.86	0.22	148,148,148,148	7
74	OHX	A1	1935	7/7	0.86	0.24	156,156,156,156	7
74	OHX	B1	3579	7/7	0.86	0.31	47,47,47,47	7
74	OHX	D1	3563	7/7	0.86	0.36	99,99,99,99	7
74	OHX	C1	1979	7/7	0.86	0.19	190,190,190,190	7
74	OHX	C1	1945	7/7	0.86	0.27	122,122,122,122	7
74	OHX	D1	3615	7/7	0.86	0.35	73,73,73,73	7
74	OHX	C1	1947	7/7	0.86	0.33	70,70,70,70	7
74	OHX	B1	3495	7/7	0.86	0.39	108,108,108,108	7
74	OHX	D1	3528	7/7	0.86	0.39	96,96,96,96	7
74	OHX	B1	3566	7/7	0.86	0.35	107,107,107,107	7
74	OHX	D1	3532	7/7	0.86	0.24	102,102,102,102	7
74	OHX	D1	3485	7/7	0.86	0.29	90,90,90,90	7
74	OHX	B1	3501	7/7	0.86	0.40	99,99,99,99	7
74	OHX	D1	3494	7/7	0.86	0.34	105,105,105,105	7
74	OHX	A1	1921	7/7	0.86	0.27	148,148,148,148	7
74	OHX	B1	3588	7/7	0.86	0.27	78,78,78,78	7
74	OHX	B1	3517	7/7	0.86	0.22	111,111,111,111	7
74	OHX	C1	1992	7/7	0.86	0.34	76,76,76,76	7
74	OHX	B1	3573	7/7	0.86	0.33	111,111,111,111	7
74	OHX	D1	3594	7/7	0.86	0.19	30,30,30,30	7
74	OHX	DE	301	7/7	0.86	0.17	302,302,302,302	7
74	OHX	B1	3614	7/7	0.86	0.52	163,163,163,163	7
74	OHX	A1	1934	7/7	0.86	0.41	122,122,122,122	7
74	OHX	B1	3469	7/7	0.87	0.27	169,169,169,169	7
74	OHX	C1	1982	7/7	0.87	0.31	106,106,106,106	7
74	OHX	D1	3476	7/7	0.87	0.31	100,100,100,100	7
74	OHX	B1	3586	7/7	0.87	0.36	116,116,116,116	7
74	OHX	A1	1992	7/7	0.87	0.34	45,45,45,45	7
74	OHX	D1	3489	7/7	0.87	0.28	75,75,75,75	7
74	OHX	B1	3612	7/7	0.87	0.33	45,45,45,45	7
74	OHX	D1	3493	7/7	0.87	0.26	126,126,126,126	7
74	OHX	B1	3547	7/7	0.87	0.37	117,117,117,117	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	C1	1960	7/7	0.87	0.29	111,111,111,111	7
74	OHX	D1	3606	7/7	0.87	0.24	63,63,63,63	7
74	OHX	D1	3551	7/7	0.87	0.25	120,120,120,120	7
74	OHX	C1	1990	7/7	0.87	0.27	105,105,105,105	7
74	OHX	A1	1922	7/7	0.87	0.31	133,133,133,133	7
74	OHX	A1	1942	7/7	0.87	0.22	97,97,97,97	7
74	OHX	D1	3467	7/7	0.87	0.26	129,129,129,129	7
74	OHX	D1	3469	7/7	0.87	0.32	152,152,152,152	7
74	OHX	B1	3519	7/7	0.88	0.31	115,115,115,115	7
74	OHX	D1	3518	7/7	0.88	0.36	108,108,108,108	7
74	OHX	D1	3474	7/7	0.88	0.31	118,118,118,118	7
74	OHX	CI	201	7/7	0.88	0.22	143,143,143,143	7
74	OHX	D1	3499	7/7	0.88	0.21	114,114,114,114	7
74	OHX	A1	1985	7/7	0.88	0.44	86,86,86,86	7
74	OHX	D1	3480	7/7	0.88	0.26	127,127,127,127	7
74	OHX	B1	3564	7/7	0.88	0.32	126,126,126,126	7
74	OHX	D1	3527	7/7	0.88	0.26	146,146,146,146	7
74	OHX	D1	3460	7/7	0.88	0.23	138,138,138,138	7
74	OHX	D1	3584	7/7	0.88	0.40	47,47,47,47	7
74	OHX	D1	3487	7/7	0.88	0.33	103,103,103,103	7
74	OHX	D1	3511	7/7	0.88	0.36	85,85,85,85	7
74	OHX	A1	1944	7/7	0.88	0.33	108,108,108,108	7
74	OHX	D1	3589	7/7	0.88	0.34	56,56,56,56	7
74	OHX	B1	3604	7/7	0.88	0.28	53,53,53,53	7
74	OHX	B1	3572	7/7	0.88	0.24	56,56,56,56	7
74	OHX	CS	102	7/7	0.89	0.35	184,184,184,184	7
74	OHX	D1	3533	7/7	0.89	0.23	92,92,92,92	7
74	OHX	A1	1981	7/7	0.89	0.36	128,128,128,128	7
74	OHX	B1	3531	7/7	0.89	0.30	65,65,65,65	7
74	OHX	D1	3575	7/7	0.89	0.34	84,84,84,84	7
74	OHX	D1	3577	7/7	0.89	0.23	198,198,198,198	7
74	OHX	B1	3583	7/7	0.89	0.36	126,126,126,126	7
74	OHX	C1	1984	7/7	0.89	0.29	78,78,78,78	7
74	OHX	B2	206	7/7	0.89	0.24	128,128,128,128	7
74	OHX	B1	3491	7/7	0.89	0.32	99,99,99,99	7
74	OHX	B1	3437	7/7	0.89	0.29	156,156,156,156	7
74	OHX	A1	1919	7/7	0.89	0.31	141,141,141,141	7
74	OHX	B1	3516	7/7	0.89	0.31	136,136,136,136	7
74	OHX	D2	203	7/7	0.89	0.28	94,94,94,94	7
74	OHX	B1	3497	7/7	0.89	0.21	103,103,103,103	7
74	OHX	A1	1962	7/7	0.89	0.32	193,193,193,193	7
74	OHX	B1	3597	7/7	0.89	0.41	137,137,137,137	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3479	7/7	0.89	0.33	145,145,145,145	7
74	OHX	C1	1971	7/7	0.89	0.28	131,131,131,131	7
74	OHX	A1	1933	7/7	0.89	0.20	152,152,152,152	7
74	OHX	B1	3525	7/7	0.89	0.33	54,54,54,54	7
74	OHX	C1	1931	7/7	0.89	0.29	130,130,130,130	7
74	OHX	C1	1933	7/7	0.89	0.23	111,111,111,111	7
74	OHX	DC	401	7/7	0.89	0.25	93,93,93,93	7
74	OHX	C1	1938	7/7	0.89	0.34	191,191,191,191	7
74	OHX	B1	3487	7/7	0.89	0.28	116,116,116,116	7
74	OHX	D1	3531	7/7	0.89	0.24	136,136,136,136	7
74	OHX	D1	3488	7/7	0.90	0.23	141,141,141,141	7
74	OHX	C1	1954	7/7	0.90	0.25	116,116,116,116	7
74	OHX	B1	3513	7/7	0.90	0.23	171,171,171,171	7
74	OHX	B1	3595	7/7	0.90	0.25	73,73,73,73	7
74	OHX	A1	1990	7/7	0.90	0.37	117,117,117,117	7
74	OHX	A1	1968	7/7	0.90	0.36	180,180,180,180	7
74	OHX	A1	1969	7/7	0.90	0.23	87,87,87,87	7
74	OHX	AT	401	7/7	0.90	0.30	207,207,207,207	7
74	OHX	B1	3518	7/7	0.90	0.31	105,105,105,105	7
74	OHX	B1	3435	7/7	0.90	0.30	130,130,130,130	7
74	OHX	C1	1968	7/7	0.90	0.26	103,103,103,103	7
74	OHX	A1	1941	7/7	0.90	0.22	124,124,124,124	7
74	OHX	D1	3554	7/7	0.90	0.23	122,122,122,122	7
74	OHX	B1	3606	7/7	0.90	0.24	74,74,74,74	7
74	OHX	D1	3510	7/7	0.90	0.25	108,108,108,108	7
74	OHX	B1	3521	7/7	0.90	0.29	107,107,107,107	7
74	OHX	D1	3433	7/7	0.90	0.25	128,128,128,128	7
74	OHX	D1	3514	7/7	0.90	0.26	173,173,173,173	7
74	OHX	D1	3453	7/7	0.90	0.25	124,124,124,124	7
74	OHX	B1	3549	7/7	0.90	0.33	86,86,86,86	7
74	OHX	D1	3565	7/7	0.90	0.23	60,60,60,60	7
74	OHX	D1	3620	7/7	0.90	0.32	78,78,78,78	7
74	OHX	D1	3621	7/7	0.90	0.25	67,67,67,67	7
74	OHX	B1	3498	7/7	0.90	0.30	83,83,83,83	7
74	OHX	B1	3454	7/7	0.90	0.29	123,123,123,123	7
74	OHX	A1	1939	7/7	0.90	0.20	100,100,100,100	7
74	OHX	D2	202	7/7	0.90	0.23	106,106,106,106	7
74	OHX	D1	3570	7/7	0.90	0.32	49,49,49,49	7
74	OHX	D1	3572	7/7	0.90	0.23	91,91,91,91	7
74	OHX	B1	3503	7/7	0.90	0.29	86,86,86,86	7
74	OHX	C1	1936	7/7	0.90	0.30	126,126,126,126	7
74	OHX	A1	1948	7/7	0.90	0.27	106,106,106,106	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	A1	1960	7/7	0.90	0.29	70,70,70,70	7
74	OHX	C1	1943	7/7	0.90	0.25	141,141,141,141	7
74	OHX	B1	3509	7/7	0.90	0.26	124,124,124,124	7
74	OHX	A1	1936	7/7	0.90	0.26	129,129,129,129	7
74	OHX	D1	3482	7/7	0.90	0.24	107,107,107,107	7
74	OHX	D3	212	7/7	0.90	0.31	71,71,71,71	7
74	OHX	D1	3483	7/7	0.90	0.27	98,98,98,98	7
74	OHX	B1	3562	7/7	0.90	0.40	130,130,130,130	7
74	OHX	D1	3486	7/7	0.90	0.28	143,143,143,143	7
74	OHX	DO	301	7/7	0.90	0.33	285,285,285,285	7
74	OHX	B1	3483	7/7	0.90	0.29	71,71,71,71	7
74	OHX	B1	3596	7/7	0.91	0.32	56,56,56,56	7
74	OHX	B1	3550	7/7	0.91	0.22	137,137,137,137	7
74	OHX	B1	3482	7/7	0.91	0.27	111,111,111,111	7
74	OHX	Ac	100	7/7	0.91	0.32	131,131,131,131	7
74	OHX	B1	3553	7/7	0.91	0.26	66,66,66,66	7
74	OHX	A1	1927	7/7	0.91	0.26	139,139,139,139	7
74	OHX	D1	3503	7/7	0.91	0.31	120,120,120,120	7
74	OHX	D1	3461	7/7	0.91	0.28	128,128,128,128	7
74	OHX	D1	3536	7/7	0.91	0.29	140,140,140,140	7
74	OHX	B1	3578	7/7	0.91	0.28	112,112,112,112	7
74	OHX	D1	3619	7/7	0.91	0.26	86,86,86,86	7
74	OHX	D1	3576	7/7	0.91	0.20	76,76,76,76	7
74	OHX	D1	3539	7/7	0.91	0.23	69,69,69,69	7
74	OHX	A1	1955	7/7	0.91	0.27	110,110,110,110	7
74	OHX	B1	3605	7/7	0.91	0.28	52,52,52,52	7
74	OHX	B1	3536	7/7	0.91	0.30	324,324,324,324	7
74	OHX	A1	1957	7/7	0.91	0.27	129,129,129,129	7
74	OHX	B1	3459	7/7	0.91	0.23	160,160,160,160	7
74	OHX	D1	3547	7/7	0.91	0.22	64,64,64,64	7
74	OHX	B1	3522	7/7	0.91	0.24	129,129,129,129	7
74	OHX	A1	1949	7/7	0.91	0.23	101,101,101,101	7
74	OHX	C1	1994	7/7	0.91	0.20	47,47,47,47	7
74	OHX	B1	3512	7/7	0.91	0.31	113,113,113,113	7
74	OHX	C1	1910	7/7	0.91	0.22	138,138,138,138	7
74	OHX	D1	3553	7/7	0.91	0.33	145,145,145,145	7
74	OHX	D3	209	7/7	0.91	0.20	127,127,127,127	7
74	OHX	C1	1970	7/7	0.91	0.13	176,176,176,176	7
74	OHX	B1	3527	7/7	0.91	0.27	84,84,84,84	7
74	OHX	D1	3597	7/7	0.91	0.37	222,222,222,222	7
74	OHX	A1	1938	7/7	0.91	0.24	155,155,155,155	7
74	OHX	D1	3523	7/7	0.91	0.21	106,106,106,106	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3529	7/7	0.91	0.17	171,171,171,171	7
74	OHX	A1	1994	7/7	0.91	0.34	123,123,123,123	7
74	OHX	A1	1929	7/7	0.91	0.18	114,114,114,114	7
74	OHX	B1	3470	7/7	0.92	0.21	122,122,122,122	7
74	OHX	D1	3449	7/7	0.92	0.25	124,124,124,124	7
74	OHX	B1	3524	7/7	0.92	0.23	97,97,97,97	7
74	OHX	D1	3454	7/7	0.92	0.23	117,117,117,117	7
74	OHX	A1	1923	7/7	0.92	0.25	98,98,98,98	7
74	OHX	B1	3476	7/7	0.92	0.22	102,102,102,102	7
74	OHX	B1	3477	7/7	0.92	0.21	101,101,101,101	7
74	OHX	A1	1950	7/7	0.92	0.17	127,127,127,127	7
74	OHX	D1	3508	7/7	0.92	0.21	88,88,88,88	7
74	OHX	B1	3448	7/7	0.92	0.21	124,124,124,124	7
74	OHX	D1	3468	7/7	0.92	0.23	130,130,130,130	7
74	OHX	B1	3453	7/7	0.92	0.24	127,127,127,127	7
74	OHX	D1	3581	7/7	0.92	0.27	60,60,60,60	7
74	OHX	C1	1913	7/7	0.92	0.23	149,149,149,149	7
74	OHX	A1	1926	7/7	0.92	0.29	87,87,87,87	7
74	OHX	C1	1923	7/7	0.92	0.25	123,123,123,123	7
74	OHX	C1	1926	7/7	0.92	0.22	96,96,96,96	7
74	OHX	D1	3477	7/7	0.92	0.19	142,142,142,142	7
74	OHX	C1	1993	7/7	0.92	0.26	93,93,93,93	7
74	OHX	D1	3591	7/7	0.92	0.23	43,43,43,43	7
74	OHX	C1	1967	7/7	0.92	0.21	100,100,100,100	7
74	OHX	C1	1927	7/7	0.92	0.19	149,149,149,149	7
74	OHX	C1	1969	7/7	0.92	0.26	133,133,133,133	7
74	OHX	B1	3456	7/7	0.92	0.28	106,106,106,106	7
74	OHX	B1	3508	7/7	0.92	0.23	113,113,113,113	7
74	OHX	B2	204	7/7	0.92	0.20	132,132,132,132	7
74	OHX	D1	3598	7/7	0.92	0.25	65,65,65,65	7
74	OHX	B1	3569	7/7	0.92	0.17	95,95,95,95	7
74	OHX	D1	3562	7/7	0.92	0.28	121,121,121,121	7
74	OHX	C1	1939	7/7	0.92	0.20	103,103,103,103	7
74	OHX	A1	1971	7/7	0.92	0.20	94,94,94,94	7
74	OHX	A1	1972	7/7	0.92	0.23	87,87,87,87	7
74	OHX	DO	302	7/7	0.92	0.24	77,77,77,77	7
74	OHX	B1	3537	7/7	0.92	0.27	56,56,56,56	7
74	OHX	B1	3591	7/7	0.93	0.31	55,55,55,55	7
74	OHX	D1	3537	7/7	0.93	0.21	74,74,74,74	7
74	OHX	B1	3499	7/7	0.93	0.22	123,123,123,123	7
74	OHX	B2	202	7/7	0.93	0.19	106,106,106,106	7
74	OHX	D1	3540	7/7	0.93	0.25	85,85,85,85	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3425	7/7	0.93	0.21	108,108,108,108	7
74	OHX	C1	1951	7/7	0.93	0.16	152,152,152,152	7
74	OHX	A1	1951	7/7	0.93	0.28	259,259,259,259	7
74	OHX	A1	1979	7/7	0.93	0.17	81,81,81,81	7
74	OHX	B1	3438	7/7	0.93	0.18	168,168,168,168	7
74	OHX	B1	3443	7/7	0.93	0.24	134,134,134,134	7
74	OHX	D1	3495	7/7	0.93	0.18	160,160,160,160	7
74	OHX	B1	3446	7/7	0.93	0.20	113,113,113,113	7
74	OHX	A1	1914	7/7	0.93	0.24	145,145,145,145	7
74	OHX	A1	1943	7/7	0.93	0.18	176,176,176,176	7
74	OHX	B1	3484	7/7	0.93	0.22	143,143,143,143	7
74	OHX	D1	3501	7/7	0.93	0.17	102,102,102,102	7
74	OHX	B3	207	7/7	0.93	0.23	68,68,68,68	7
74	OHX	B1	3576	7/7	0.93	0.26	86,86,86,86	7
74	OHX	B1	3485	7/7	0.93	0.25	110,110,110,110	7
74	OHX	B1	3486	7/7	0.93	0.24	104,104,104,104	7
74	OHX	D1	3405	7/7	0.93	0.25	110,110,110,110	0
74	OHX	D1	3617	7/7	0.93	0.22	50,50,50,50	7
74	OHX	D1	3413	7/7	0.93	0.25	114,114,114,114	7
74	OHX	B1	3607	7/7	0.93	0.26	44,44,44,44	7
74	OHX	D1	3439	7/7	0.93	0.24	107,107,107,107	7
74	OHX	A1	1961	7/7	0.93	0.16	105,105,105,105	7
74	OHX	B1	3455	7/7	0.93	0.20	134,134,134,134	7
74	OHX	C1	1915	7/7	0.93	0.24	120,120,120,120	7
74	OHX	C1	1973	7/7	0.93	0.17	95,95,95,95	7
74	OHX	A1	1908	7/7	0.93	0.25	96,96,96,96	7
74	OHX	C1	1920	7/7	0.93	0.23	103,103,103,103	7
74	OHX	D1	3462	7/7	0.93	0.21	114,114,114,114	7
74	OHX	D2	205	7/7	0.93	0.20	84,84,84,84	7
74	OHX	D2	206	7/7	0.93	0.23	85,85,85,85	7
74	OHX	B1	3457	7/7	0.93	0.20	147,147,147,147	7
74	OHX	C1	1977	7/7	0.93	0.21	102,102,102,102	7
74	OHX	B1	3559	7/7	0.93	0.20	68,68,68,68	7
74	OHX	A1	1911	7/7	0.93	0.22	112,112,112,112	7
74	OHX	B1	3585	7/7	0.93	0.33	197,197,197,197	7
74	OHX	D3	207	7/7	0.93	0.22	123,123,123,123	7
74	OHX	D1	3473	7/7	0.93	0.18	123,123,123,123	7
74	OHX	B1	3615	7/7	0.93	0.22	49,49,49,49	7
74	OHX	B1	3561	7/7	0.93	0.42	280,280,280,280	7
74	OHX	C1	1983	7/7	0.93	0.25	59,59,59,59	7
74	OHX	D1	3583	7/7	0.93	0.20	88,88,88,88	7
74	OHX	D1	3530	7/7	0.93	0.22	51,51,51,51	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3587	7/7	0.93	0.28	154,154,154,154	7
74	OHX	D1	3479	7/7	0.93	0.26	99,99,99,99	7
74	OHX	B1	3466	7/7	0.93	0.17	120,120,120,120	7
74	OHX	A1	1987	7/7	0.93	0.24	72,72,72,72	7
74	OHX	C1	1942	7/7	0.93	0.20	112,112,112,112	7
74	OHX	B1	3431	7/7	0.94	0.16	125,125,125,125	7
74	OHX	D1	3520	7/7	0.94	0.21	109,109,109,109	7
74	OHX	C1	1961	7/7	0.94	0.20	101,101,101,101	7
74	OHX	D1	3607	7/7	0.94	0.23	78,78,78,78	7
74	OHX	D1	3608	7/7	0.94	0.26	14,14,14,14	7
74	OHX	B1	3526	7/7	0.94	0.22	174,174,174,174	7
74	OHX	C1	1963	7/7	0.94	0.20	94,94,94,94	7
74	OHX	C1	1964	7/7	0.94	0.23	88,88,88,88	7
74	OHX	C1	1916	7/7	0.94	0.25	169,169,169,169	7
74	OHX	B1	3507	7/7	0.94	0.26	104,104,104,104	7
74	OHX	D1	3484	7/7	0.94	0.19	116,116,116,116	7
74	OHX	A1	1915	7/7	0.94	0.21	129,129,129,129	7
74	OHX	C1	1922	7/7	0.94	0.23	142,142,142,142	7
74	OHX	A1	1959	7/7	0.94	0.28	110,110,110,110	7
74	OHX	B1	3460	7/7	0.94	0.20	137,137,137,137	7
74	OHX	B1	3461	7/7	0.94	0.21	101,101,101,101	7
74	OHX	B1	3462	7/7	0.94	0.20	90,90,90,90	7
74	OHX	D1	3492	7/7	0.94	0.23	112,112,112,112	7
74	OHX	B1	3488	7/7	0.94	0.16	104,104,104,104	7
74	OHX	D1	3624	7/7	0.94	0.24	95,95,95,95	7
74	OHX	B1	3465	7/7	0.94	0.20	142,142,142,142	7
74	OHX	C1	1937	7/7	0.94	0.18	124,124,124,124	7
74	OHX	A1	1932	7/7	0.94	0.20	142,142,142,142	7
74	OHX	D1	3441	7/7	0.94	0.20	124,124,124,124	7
74	OHX	B1	3468	7/7	0.94	0.25	89,89,89,89	7
74	OHX	B1	3441	7/7	0.94	0.23	129,129,129,129	7
74	OHX	AL	201	7/7	0.94	0.15	122,122,122,122	7
74	OHX	D1	3543	7/7	0.94	0.20	45,45,45,45	7
74	OHX	D1	3588	7/7	0.94	0.28	336,336,336,336	7
74	OHX	A1	1928	7/7	0.94	0.15	99,99,99,99	7
74	OHX	D1	3459	7/7	0.94	0.23	96,96,96,96	7
74	OHX	B3	203	7/7	0.94	0.20	140,140,140,140	7
74	OHX	B1	3474	7/7	0.94	0.19	179,179,179,179	7
74	OHX	C1	1949	7/7	0.94	0.17	97,97,97,97	7
74	OHX	D1	3463	7/7	0.94	0.19	140,140,140,140	7
74	OHX	A1	1924	7/7	0.94	0.21	150,150,150,150	7
74	OHX	B3	208	7/7	0.94	0.18	79,79,79,79	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3543	7/7	0.94	0.15	102,102,102,102	7
74	OHX	B1	3421	7/7	0.94	0.27	141,141,141,141	0
74	OHX	A1	1986	7/7	0.94	0.19	98,98,98,98	7
74	OHX	BC	401	7/7	0.94	0.16	66,66,66,66	7
74	OHX	B1	3590	7/7	0.94	0.18	69,69,69,69	7
74	OHX	B1	3426	7/7	0.94	0.20	111,111,111,111	7
74	OHX	D1	3491	7/7	0.95	0.17	37,37,37,37	7
74	OHX	A1	1980	7/7	0.95	0.14	136,136,136,136	7
74	OHX	B1	3494	7/7	0.95	0.19	118,118,118,118	7
74	OHX	B1	3429	7/7	0.95	0.17	93,93,93,93	7
74	OHX	D1	3458	7/7	0.95	0.17	103,103,103,103	7
74	OHX	B1	3496	7/7	0.95	0.19	122,122,122,122	7
74	OHX	B1	3447	7/7	0.95	0.22	126,126,126,126	7
74	OHX	C1	1941	7/7	0.95	0.18	109,109,109,109	7
74	OHX	B1	3430	7/7	0.95	0.20	99,99,99,99	7
74	OHX	C1	1914	7/7	0.95	0.15	128,128,128,128	7
74	OHX	D1	3502	7/7	0.95	0.16	79,79,79,79	7
74	OHX	D1	3464	7/7	0.95	0.16	92,92,92,92	7
74	OHX	D1	3465	7/7	0.95	0.19	101,101,101,101	7
74	OHX	B1	3403	7/7	0.95	0.26	126,126,126,126	0
74	OHX	B1	3500	7/7	0.95	0.21	116,116,116,116	7
74	OHX	C1	1948	7/7	0.95	0.20	117,117,117,117	7
74	OHX	B1	3409	7/7	0.95	0.22	122,122,122,122	0
74	OHX	B1	3416	7/7	0.95	0.25	113,113,113,113	0
74	OHX	B1	3598	7/7	0.95	0.20	100,100,100,100	7
74	OHX	A1	1976	7/7	0.95	0.24	51,51,51,51	7
74	OHX	B1	3440	7/7	0.95	0.24	105,105,105,105	7
74	OHX	C1	1955	7/7	0.95	0.20	106,106,106,106	7
74	OHX	B1	3473	7/7	0.95	0.17	91,91,91,91	7
74	OHX	D1	3478	7/7	0.95	0.17	117,117,117,117	7
74	OHX	C1	1928	7/7	0.95	0.22	165,165,165,165	7
74	OHX	C1	1930	7/7	0.95	0.18	112,112,112,112	7
74	OHX	B1	3458	7/7	0.95	0.25	114,114,114,114	7
74	OHX	D1	3436	7/7	0.95	0.24	125,125,125,125	7
74	OHX	D1	3437	7/7	0.95	0.22	103,103,103,103	7
74	OHX	A1	1945	7/7	0.95	0.16	108,108,108,108	7
74	OHX	D1	3440	7/7	0.95	0.25	137,137,137,137	7
74	OHX	C1	1934	7/7	0.95	0.18	141,141,141,141	7
74	OHX	D1	3448	7/7	0.95	0.22	107,107,107,107	7
74	OHX	D1	3604	7/7	0.95	0.18	44,44,44,44	7
74	OHX	C1	1935	7/7	0.95	0.15	93,93,93,93	7
74	OHX	D1	3450	7/7	0.95	0.22	112,112,112,112	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	D1	3567	7/7	0.95	0.16	106,106,106,106	7
74	OHX	D1	3451	7/7	0.95	0.22	112,112,112,112	7
74	OHX	C1	1932	7/7	0.96	0.18	115,115,115,115	7
74	OHX	A1	1904	7/7	0.96	0.18	137,137,137,137	7
74	OHX	A1	1937	7/7	0.96	0.16	158,158,158,158	7
74	OHX	D1	3512	7/7	0.96	0.16	108,108,108,108	7
74	OHX	A1	1920	7/7	0.96	0.15	126,126,126,126	7
74	OHX	B1	3433	7/7	0.96	0.21	98,98,98,98	7
74	OHX	A1	1910	7/7	0.96	0.19	146,146,146,146	7
74	OHX	D1	3561	7/7	0.96	0.17	65,65,65,65	7
74	OHX	D1	3470	7/7	0.96	0.13	84,84,84,84	7
74	OHX	B1	3436	7/7	0.96	0.15	104,104,104,104	7
74	OHX	A1	1905	7/7	0.96	0.19	118,118,118,118	0
74	OHX	D1	3612	7/7	0.96	0.18	36,36,36,36	7
74	OHX	CS	101	7/7	0.96	0.27	46,46,46,46	7
74	OHX	A1	1912	7/7	0.96	0.18	125,125,125,125	7
74	OHX	B1	3439	7/7	0.96	0.19	90,90,90,90	7
74	OHX	B1	3463	7/7	0.96	0.16	137,137,137,137	7
74	OHX	Bd	102	7/7	0.96	0.15	73,73,73,73	7
74	OHX	D1	3416	7/7	0.96	0.12	108,108,108,108	7
74	OHX	D1	3571	7/7	0.96	0.17	77,77,77,77	7
74	OHX	D1	3417	7/7	0.96	0.19	91,91,91,91	7
74	OHX	D1	3418	7/7	0.96	0.22	103,103,103,103	0
74	OHX	D1	3425	7/7	0.96	0.16	126,126,126,126	7
74	OHX	D1	3429	7/7	0.96	0.21	82,82,82,82	7
74	OHX	D1	3432	7/7	0.96	0.20	100,100,100,100	7
74	OHX	C1	1944	7/7	0.96	0.12	134,134,134,134	7
74	OHX	Bg	101	7/7	0.96	0.24	79,79,79,79	7
74	OHX	C1	1946	7/7	0.96	0.15	63,63,63,63	7
74	OHX	B1	3464	7/7	0.96	0.20	89,89,89,89	7
74	OHX	B1	3410	7/7	0.96	0.17	111,111,111,111	0
74	OHX	A1	1906	7/7	0.96	0.15	97,97,97,97	7
74	OHX	D1	3444	7/7	0.96	0.20	72,72,72,72	7
74	OHX	D1	3445	7/7	0.96	0.19	101,101,101,101	7
74	OHX	D1	3447	7/7	0.96	0.20	142,142,142,142	7
74	OHX	D3	203	7/7	0.96	0.14	86,86,86,86	7
74	OHX	D3	204	7/7	0.96	0.19	120,120,120,120	7
74	OHX	B1	3442	7/7	0.96	0.21	89,89,89,89	7
74	OHX	B1	3419	7/7	0.96	0.17	109,109,109,109	7
74	OHX	B1	3444	7/7	0.96	0.15	111,111,111,111	7
74	OHX	A1	1907	7/7	0.96	0.18	111,111,111,111	7
74	OHX	A1	1916	7/7	0.96	0.16	91,91,91,91	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	A1	2001	7/7	0.96	0.17	26,26,26,26	7
74	OHX	C1	1925	7/7	0.96	0.14	116,116,116,116	7
74	OHX	B1	3475	7/7	0.96	0.20	84,84,84,84	7
74	OHX	B1	3452	7/7	0.96	0.17	134,134,134,134	7
74	OHX	D1	3504	7/7	0.96	0.16	101,101,101,101	7
74	OHX	B1	3427	7/7	0.96	0.23	95,95,95,95	7
74	OHX	C1	1929	7/7	0.96	0.21	90,90,90,90	7
74	OHX	B1	3478	7/7	0.96	0.14	110,110,110,110	7
74	OHX	Dd	101	7/7	0.96	0.23	32,32,32,32	7
74	OHX	B1	3505	7/7	0.96	0.15	134,134,134,134	7
74	OHX	B1	3540	7/7	0.97	0.14	58,58,58,58	7
74	OHX	A1	1918	7/7	0.97	0.18	94,94,94,94	7
74	OHX	C1	1902	7/7	0.97	0.22	108,108,108,108	0
74	OHX	C1	1905	7/7	0.97	0.11	114,114,114,114	7
74	OHX	C1	1909	7/7	0.97	0.14	130,130,130,130	7
74	OHX	D1	3442	7/7	0.97	0.16	126,126,126,126	7
74	OHX	D1	3443	7/7	0.97	0.14	96,96,96,96	7
74	OHX	A1	1903	7/7	0.97	0.15	122,122,122,122	7
74	OHX	C1	1912	7/7	0.97	0.12	117,117,117,117	7
74	OHX	D1	3446	7/7	0.97	0.17	83,83,83,83	7
74	OHX	AS	101	7/7	0.97	0.19	29,29,29,29	7
74	OHX	B1	3418	7/7	0.97	0.14	106,106,106,106	0
74	OHX	B1	3593	7/7	0.97	0.15	46,46,46,46	7
74	OHX	B1	3432	7/7	0.97	0.17	79,79,79,79	7
74	OHX	A1	1909	7/7	0.97	0.12	115,115,115,115	7
74	OHX	A1	1975	7/7	0.97	0.17	67,67,67,67	7
74	OHX	C1	1921	7/7	0.97	0.12	145,145,145,145	7
74	OHX	D1	3496	7/7	0.97	0.18	155,155,155,155	7
74	OHX	D1	3455	7/7	0.97	0.16	110,110,110,110	7
74	OHX	D1	3456	7/7	0.97	0.19	131,131,131,131	7
74	OHX	B1	3423	7/7	0.97	0.21	91,91,91,91	7
74	OHX	B1	3492	7/7	0.97	0.20	70,70,70,70	7
74	OHX	C1	1924	7/7	0.97	0.12	82,82,82,82	7
74	OHX	B1	3451	7/7	0.97	0.15	86,86,86,86	7
74	OHX	D1	3401	7/7	0.97	0.20	96,96,96,96	0
74	OHX	D1	3403	7/7	0.97	0.19	96,96,96,96	0
74	OHX	B1	3567	7/7	0.97	0.11	126,126,126,126	7
74	OHX	D1	3406	7/7	0.97	0.12	107,107,107,107	0
74	OHX	D1	3409	7/7	0.97	0.14	114,114,114,114	0
74	OHX	D1	3410	7/7	0.97	0.22	96,96,96,96	0
74	OHX	C1	1953	7/7	0.97	0.16	56,56,56,56	7
74	OHX	B1	3424	7/7	0.97	0.19	105,105,105,105	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	A1	1917	7/7	0.97	0.15	130,130,130,130	7
74	OHX	B3	211	7/7	0.97	0.14	67,67,67,67	7
74	OHX	D1	3422	7/7	0.97	0.15	114,114,114,114	7
74	OHX	D1	3472	7/7	0.97	0.15	185,185,185,185	7
74	OHX	B1	3406	7/7	0.97	0.23	106,106,106,106	0
74	OHX	B1	3467	7/7	0.97	0.14	119,119,119,119	7
74	OHX	D1	3430	7/7	0.97	0.15	101,101,101,101	7
74	OHX	D1	3560	7/7	0.97	0.19	82,82,82,82	7
74	OHX	B2	201	7/7	0.97	0.10	141,141,141,141	7
74	OHX	DT	201	7/7	0.97	0.22	100,100,100,100	0
74	OHX	Bd	101	7/7	0.97	0.22	32,32,32,32	7
74	OHX	D1	3435	7/7	0.97	0.12	92,92,92,92	7
74	OHX	B1	3405	7/7	0.98	0.18	101,101,101,101	0
74	OHX	D1	3434	7/7	0.98	0.13	77,77,77,77	7
74	OHX	BT	201	7/7	0.98	0.17	91,91,91,91	7
74	OHX	B1	3422	7/7	0.98	0.12	93,93,93,93	7
74	OHX	A1	1901	7/7	0.98	0.14	100,100,100,100	0
74	OHX	B1	3480	7/7	0.98	0.10	85,85,85,85	7
74	OHX	B1	3407	7/7	0.98	0.12	105,105,105,105	0
74	OHX	C1	1903	7/7	0.98	0.16	115,115,115,115	0
74	OHX	C1	1904	7/7	0.98	0.18	113,113,113,113	0
74	OHX	B1	3408	7/7	0.98	0.17	98,98,98,98	0
74	OHX	C1	1907	7/7	0.98	0.18	123,123,123,123	7
74	OHX	B1	3563	7/7	0.98	0.17	152,152,152,152	7
74	OHX	A1	1902	7/7	0.98	0.14	112,112,112,112	0
74	OHX	C1	1911	7/7	0.98	0.11	96,96,96,96	7
74	OHX	A1	1931	7/7	0.98	0.14	96,96,96,96	7
74	OHX	B1	3428	7/7	0.98	0.15	109,109,109,109	7
74	OHX	B1	3411	7/7	0.98	0.14	105,105,105,105	0
74	OHX	D1	3402	7/7	0.98	0.20	100,100,100,100	0
74	OHX	D1	3582	7/7	0.98	0.13	71,71,71,71	7
74	OHX	B1	3413	7/7	0.98	0.13	106,106,106,106	7
74	OHX	D1	3404	7/7	0.98	0.21	99,99,99,99	0
74	OHX	B3	201	7/7	0.98	0.20	117,117,117,117	0
74	OHX	B3	202	7/7	0.98	0.11	116,116,116,116	0
74	OHX	D1	3407	7/7	0.98	0.15	113,113,113,113	0
74	OHX	D1	3408	7/7	0.98	0.13	143,143,143,143	0
74	OHX	B1	3449	7/7	0.98	0.14	105,105,105,105	7
74	OHX	B3	204	7/7	0.98	0.13	84,84,84,84	7
74	OHX	D1	3411	7/7	0.98	0.15	117,117,117,117	0
74	OHX	D1	3412	7/7	0.98	0.17	126,126,126,126	0
74	OHX	B3	205	7/7	0.98	0.11	123,123,123,123	7

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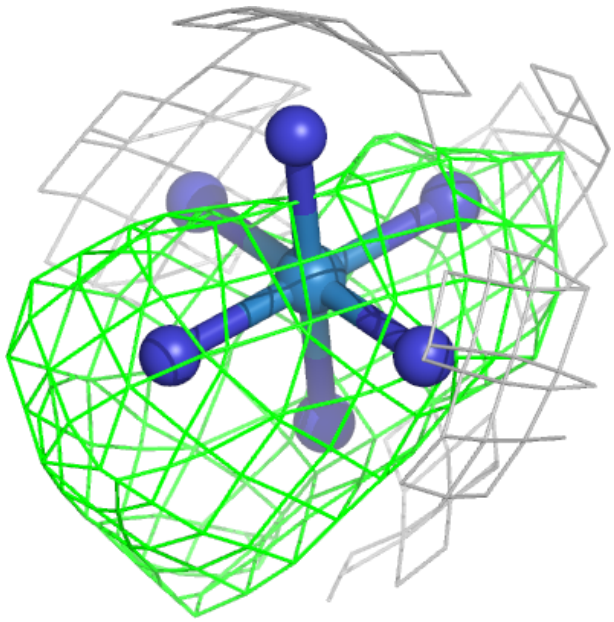
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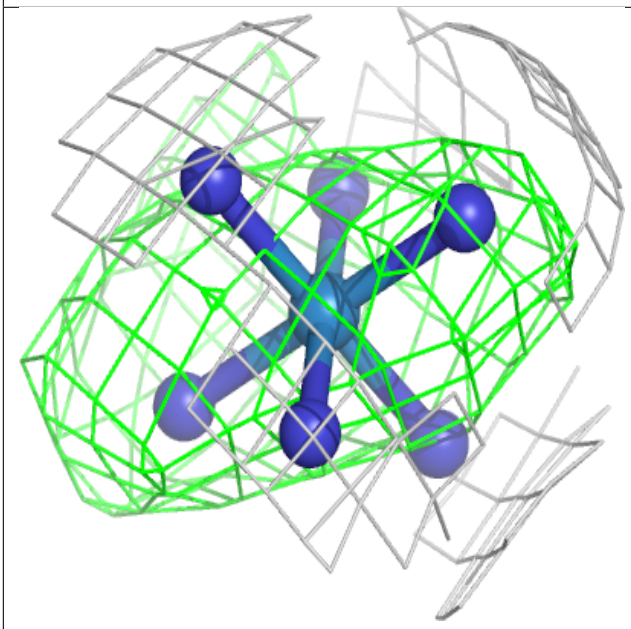
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
74	OHX	B1	3489	7/7	0.98	0.13	129,129,129,129	7
74	OHX	B1	3414	7/7	0.98	0.13	106,106,106,106	0
74	OHX	A1	1956	7/7	0.98	0.11	159,159,159,159	7
74	OHX	D1	3419	7/7	0.98	0.14	92,92,92,92	0
74	OHX	D1	3421	7/7	0.98	0.12	98,98,98,98	7
74	OHX	B1	3417	7/7	0.98	0.12	102,102,102,102	0
74	OHX	D1	3423	7/7	0.98	0.09	88,88,88,88	7
74	OHX	D1	3424	7/7	0.98	0.09	125,125,125,125	7
74	OHX	B1	3434	7/7	0.98	0.17	102,102,102,102	7
74	OHX	D1	3426	7/7	0.98	0.15	112,112,112,112	7
74	OHX	D1	3427	7/7	0.98	0.12	90,90,90,90	7
74	OHX	A1	1913	7/7	0.98	0.11	135,135,135,135	7
74	OHX	B1	3404	7/7	0.98	0.15	114,114,114,114	0
74	OHX	B1	3420	7/7	0.98	0.15	93,93,93,93	7
74	OHX	Dg	101	7/7	0.98	0.19	69,69,69,69	7
74	OHX	B1	3401	7/7	0.99	0.18	90,90,90,90	0
74	OHX	D3	201	7/7	0.99	0.14	93,93,93,93	0
74	OHX	D3	202	7/7	0.99	0.14	116,116,116,116	0
74	OHX	C1	1908	7/7	0.99	0.11	104,104,104,104	7
74	OHX	B1	3415	7/7	0.99	0.14	93,93,93,93	7
74	OHX	D1	3428	7/7	0.99	0.11	80,80,80,80	7
74	OHX	B1	3412	7/7	0.99	0.13	121,121,121,121	0
74	OHX	D1	3414	7/7	0.99	0.11	114,114,114,114	0
74	OHX	D1	3431	7/7	0.99	0.12	109,109,109,109	7
74	OHX	D1	3415	7/7	0.99	0.10	139,139,139,139	0
74	OHX	C1	1901	7/7	0.99	0.14	100,100,100,100	0
74	OHX	D1	3452	7/7	0.99	0.10	94,94,94,94	7
74	OHX	B1	3450	7/7	0.99	0.14	91,91,91,91	7
74	OHX	B1	3445	7/7	0.99	0.09	113,113,113,113	7
74	OHX	D2	201	7/7	0.99	0.09	94,94,94,94	7
74	OHX	B1	3402	7/7	0.99	0.15	99,99,99,99	0
74	OHX	D1	3420	7/7	0.99	0.10	112,112,112,112	0
74	OHX	D1	3438	7/7	0.99	0.11	98,98,98,98	7
74	OHX	B1	3471	7/7	0.99	0.11	130,130,130,130	7
74	OHX	C1	1906	7/7	0.99	0.13	101,101,101,101	7
74	OHX	C1	1917	7/7	0.99	0.15	130,130,130,130	7
74	OHX	C1	1918	7/7	0.99	0.14	123,123,123,123	7

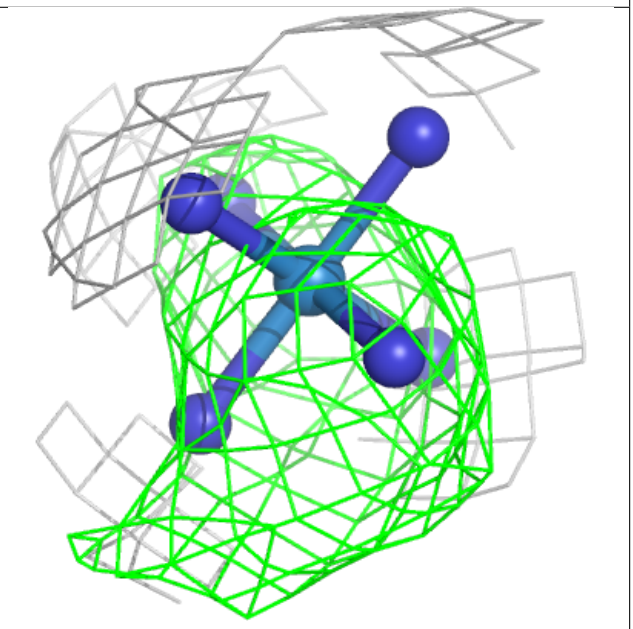
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around OHX C1 1998:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

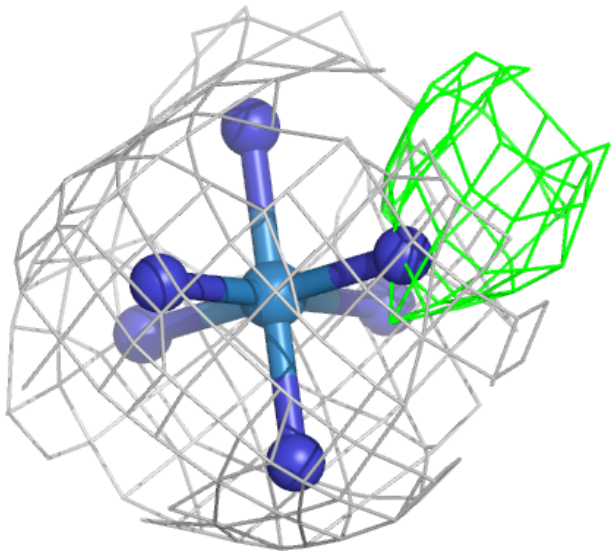


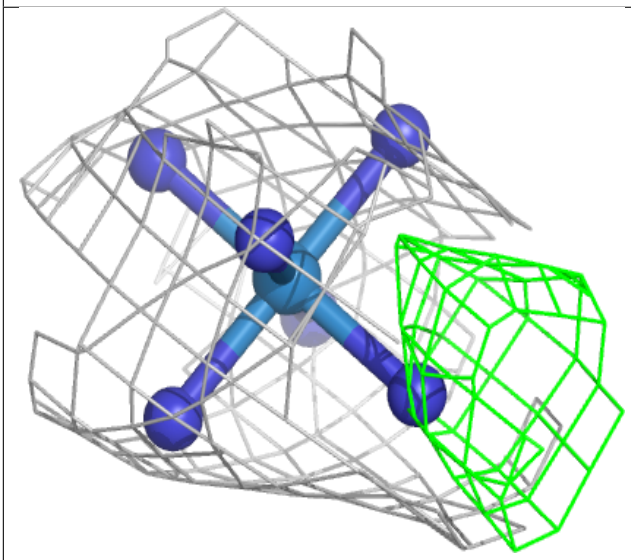


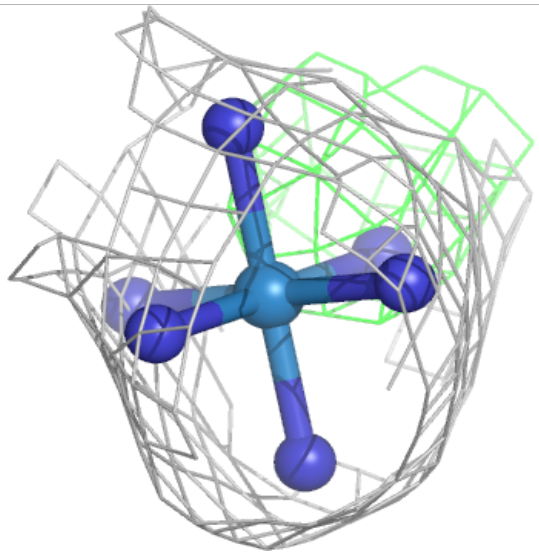


Electron density around OHX A1 1983:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

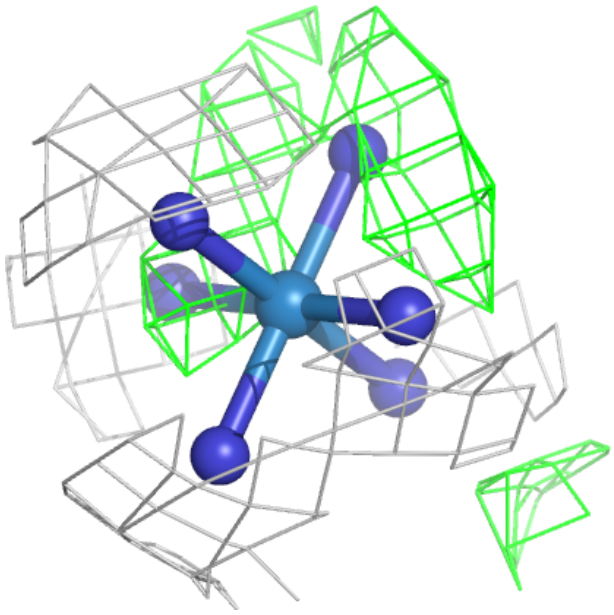


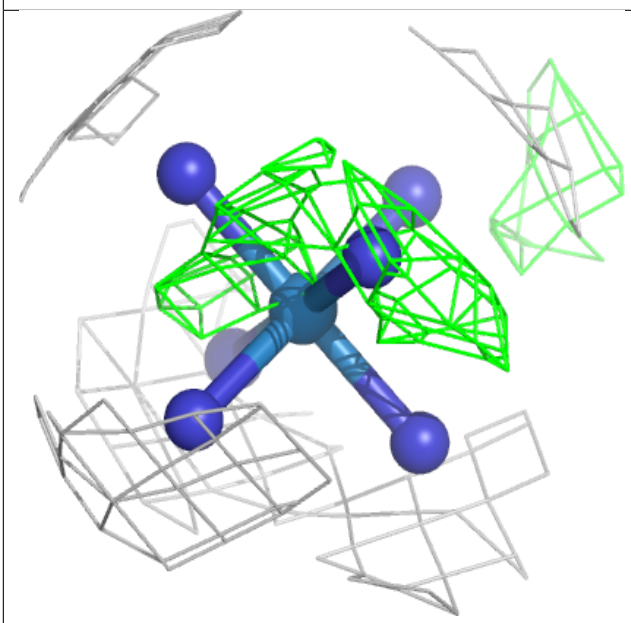


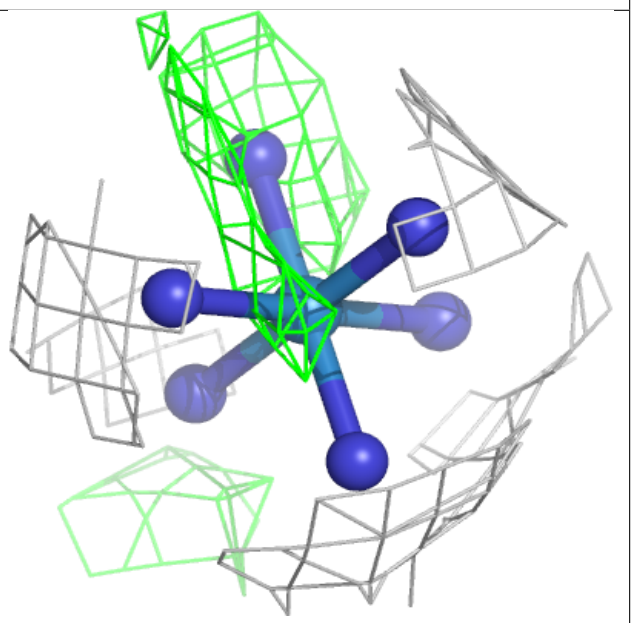


Electron density around OHX B1 3554:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

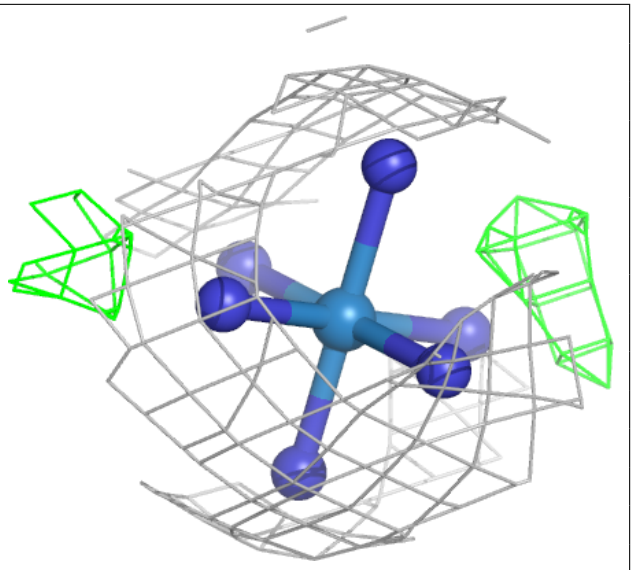


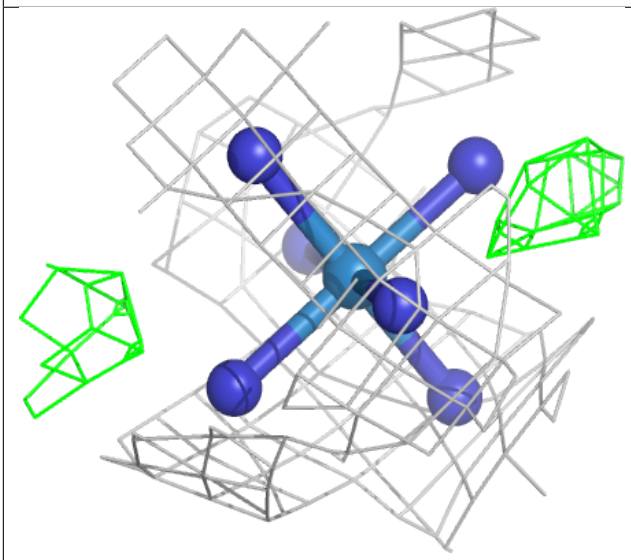


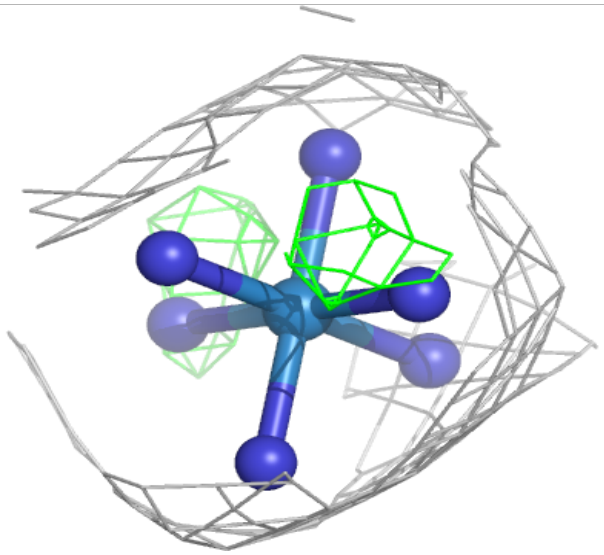


Electron density around OHX B1 3548:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

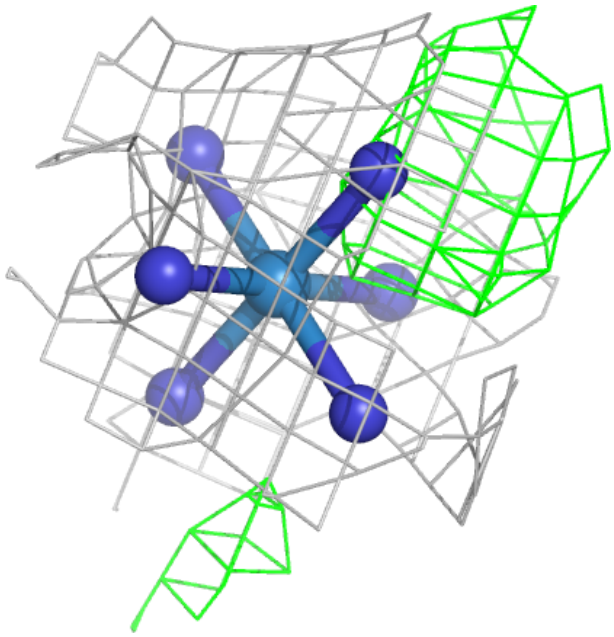


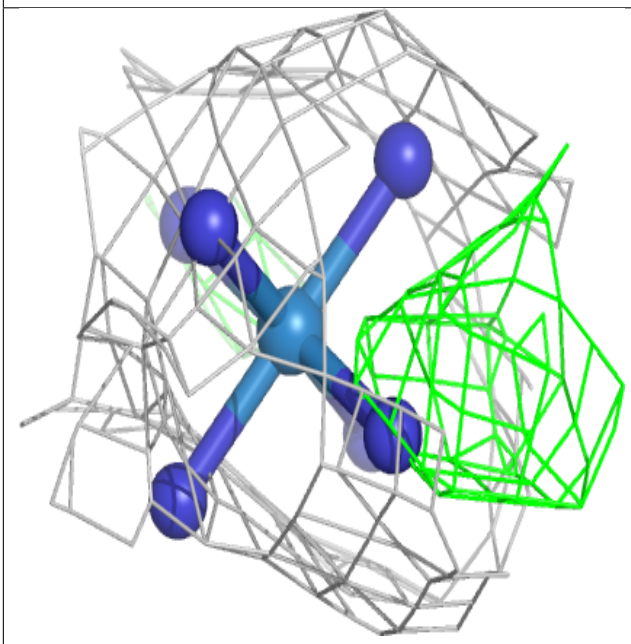


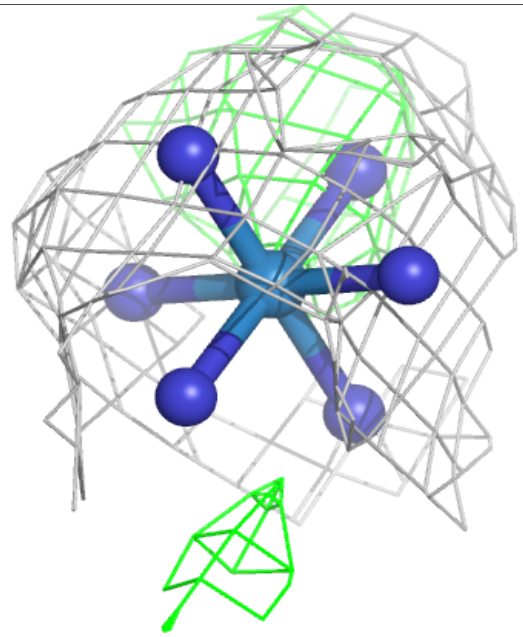


Electron density around OHX D1 3586:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

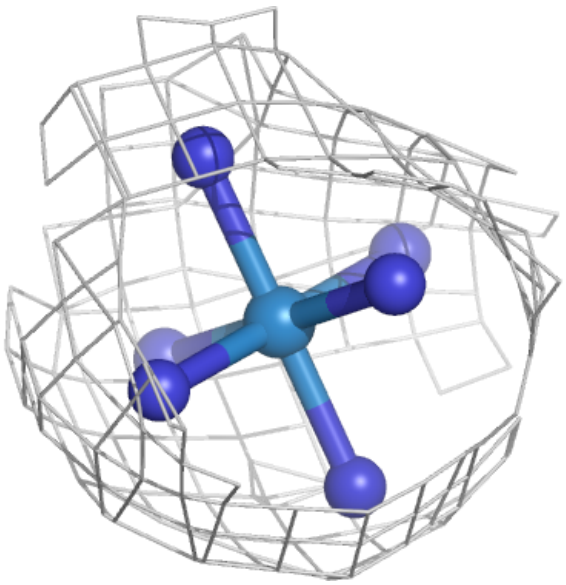


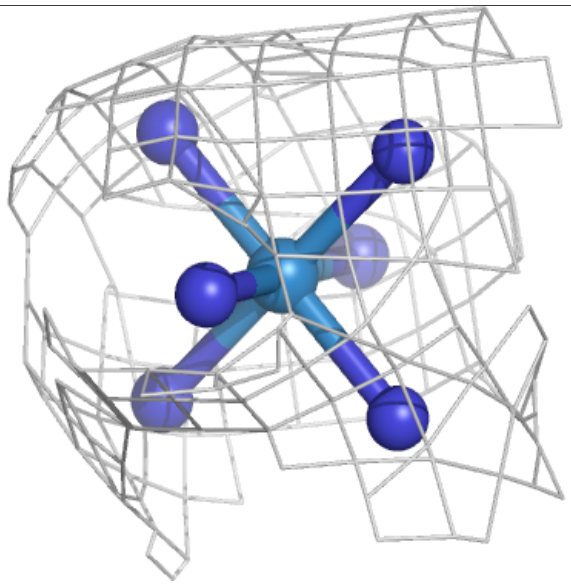


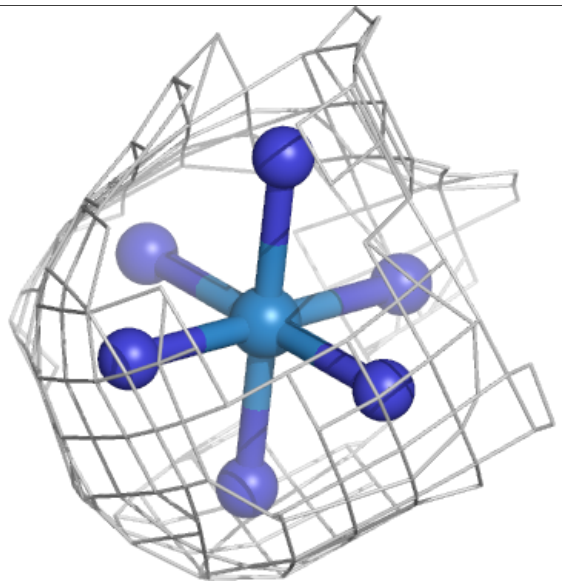


Electron density around OHX C1 1989:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

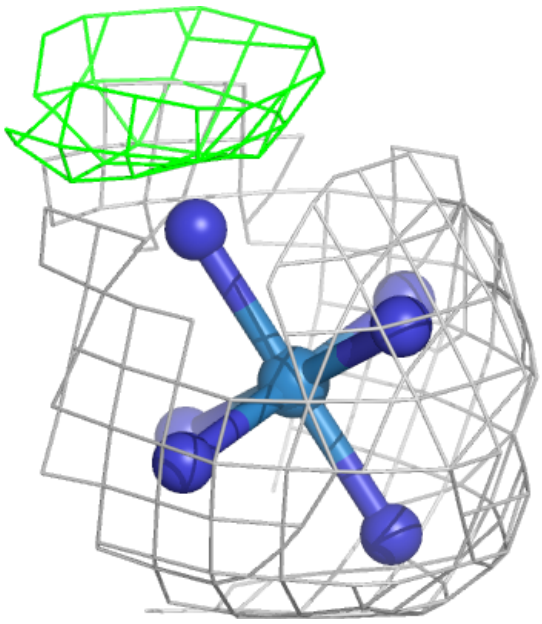


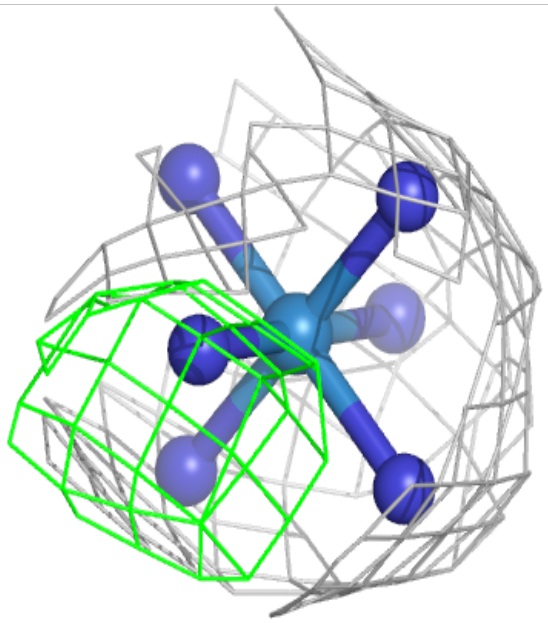


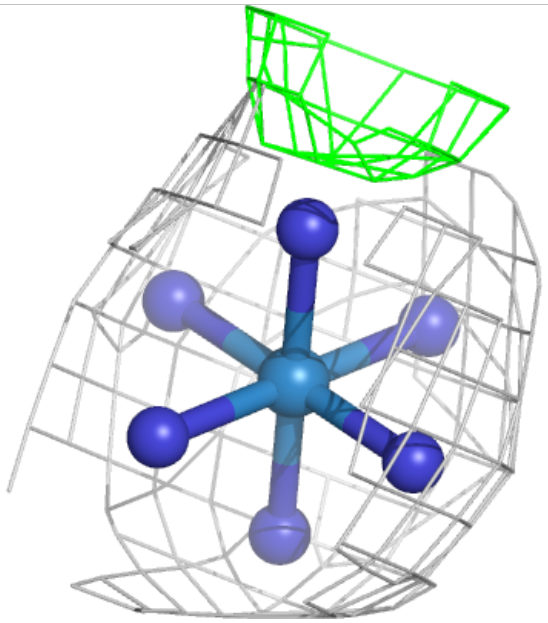


Electron density around OHX B1 3613:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

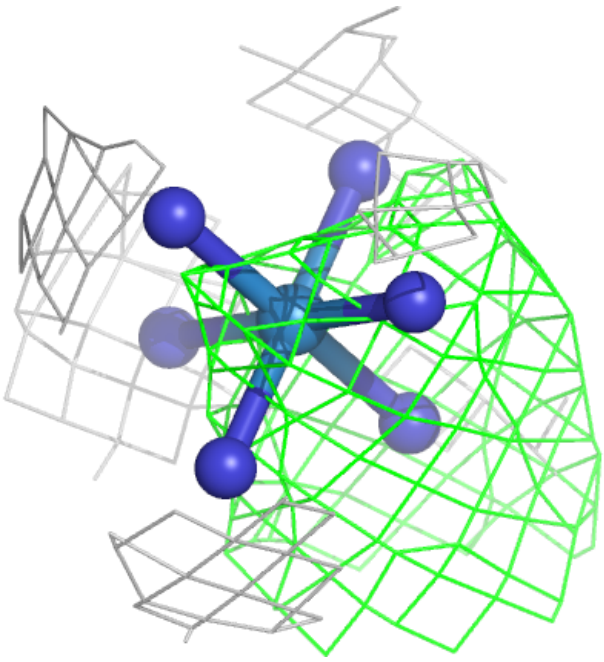


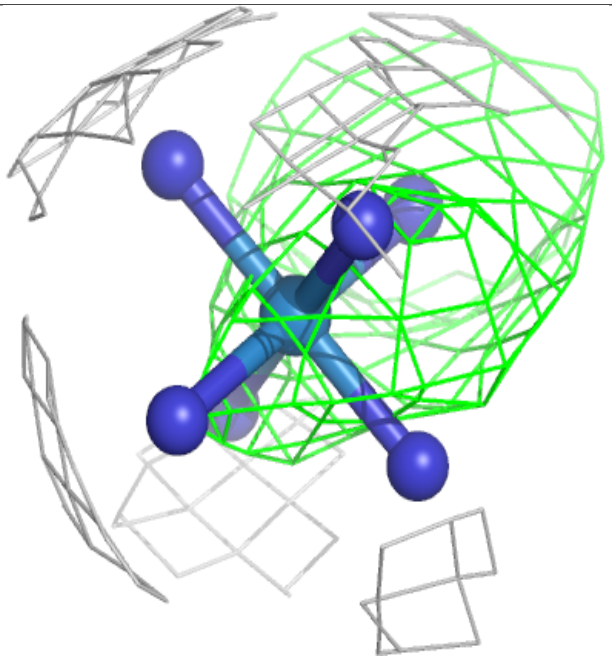


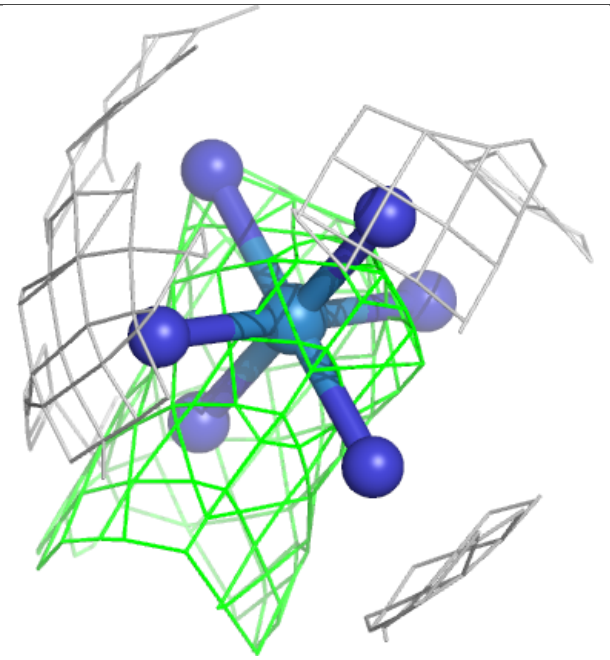


Electron density around OHX B1 3608:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

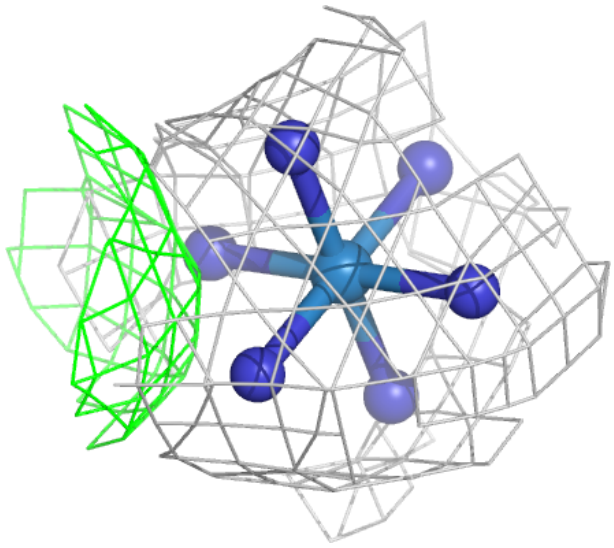


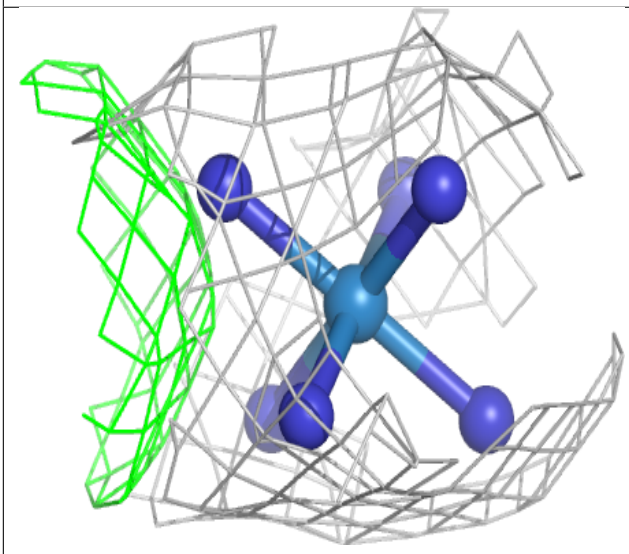


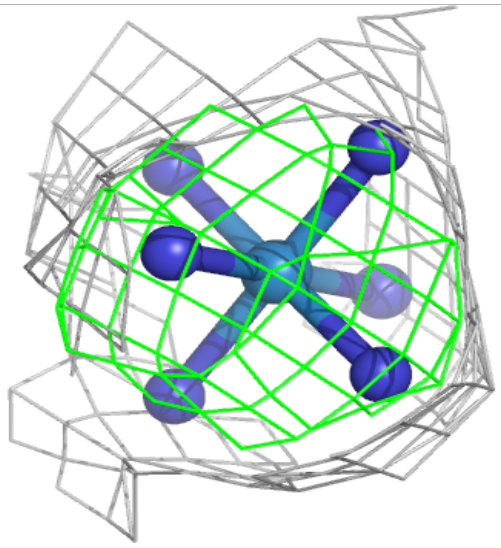


Electron density around OHX D1 3535:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

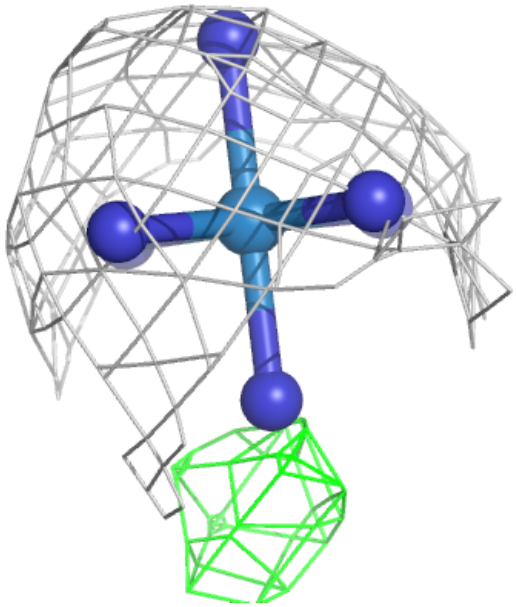


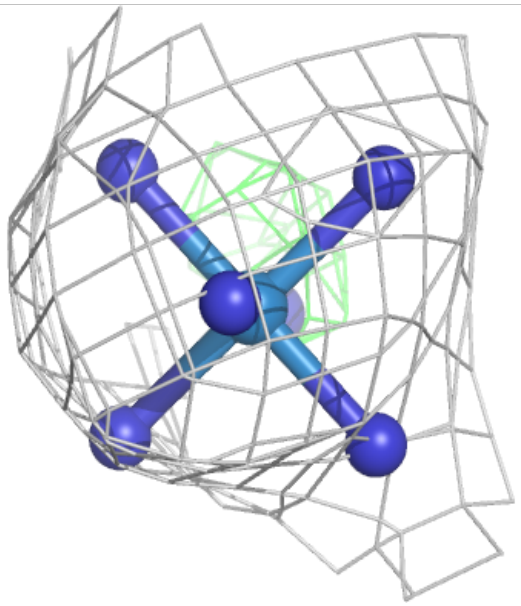


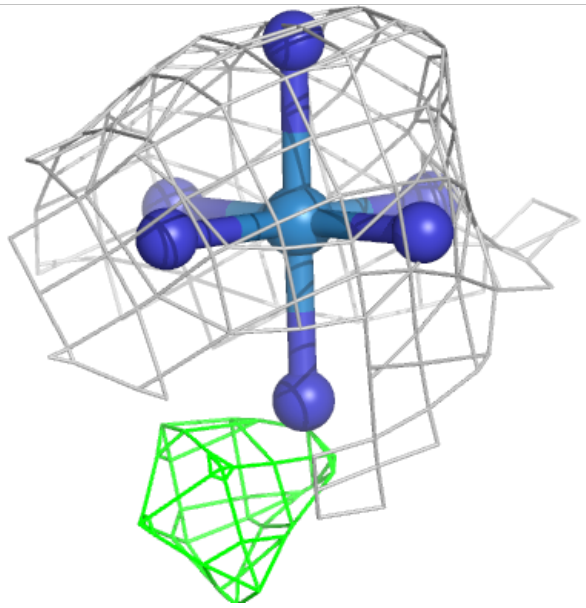


Electron density around OHX B1 3592:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

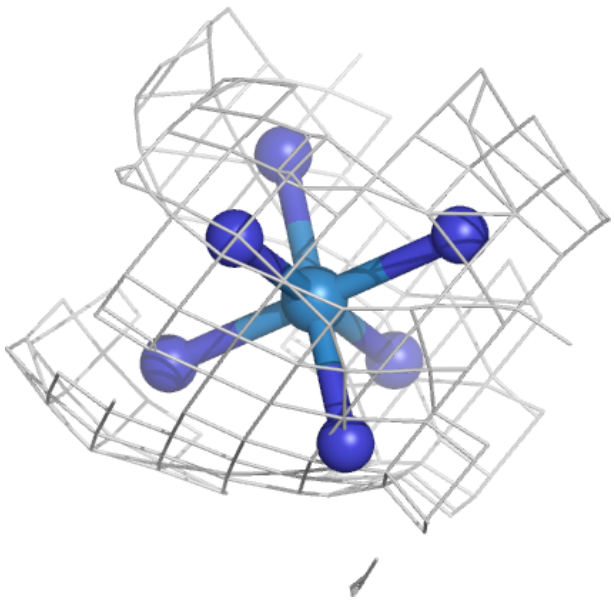


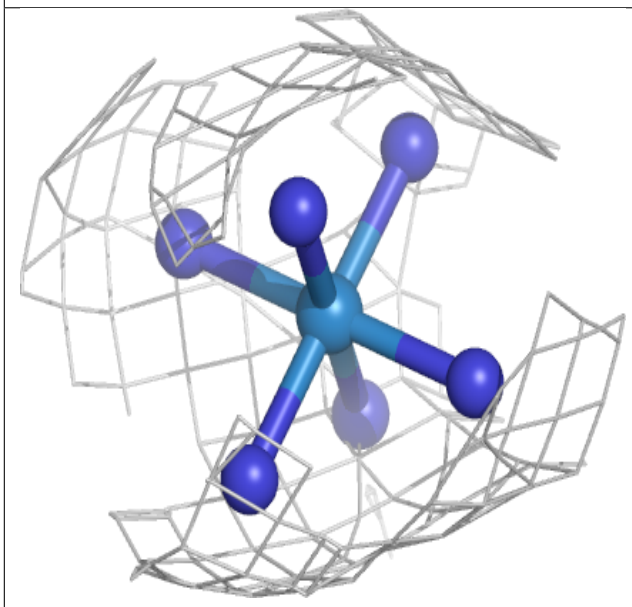


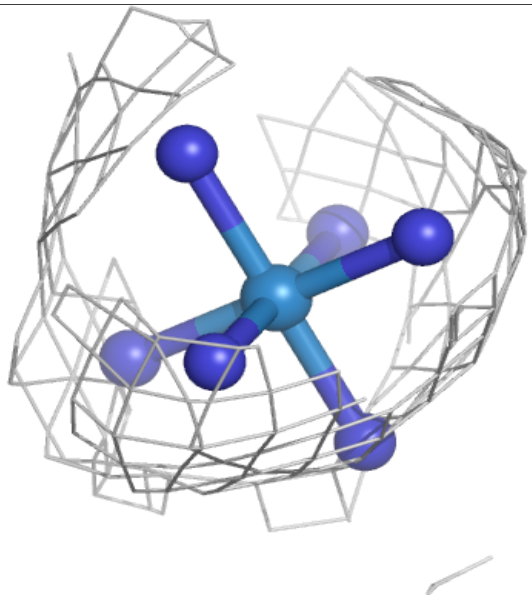


Electron density around OHX A1 1993:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

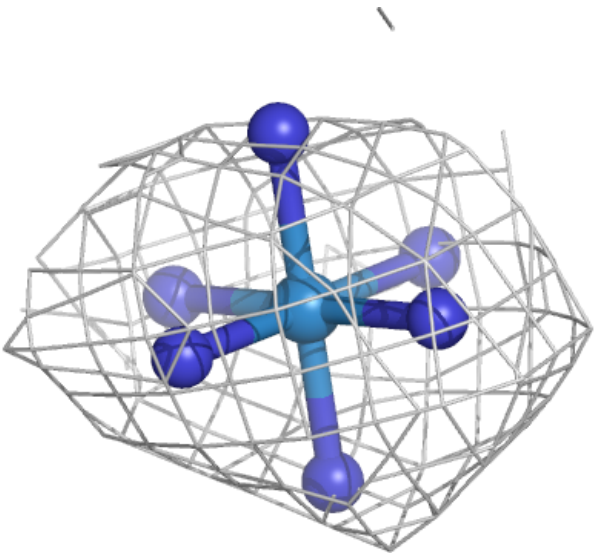


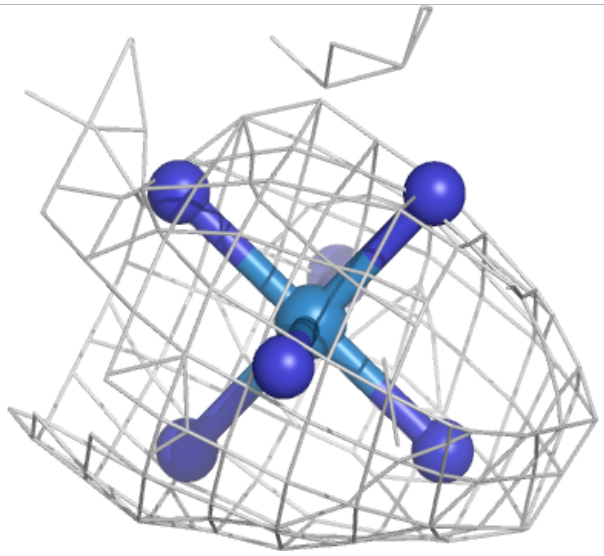


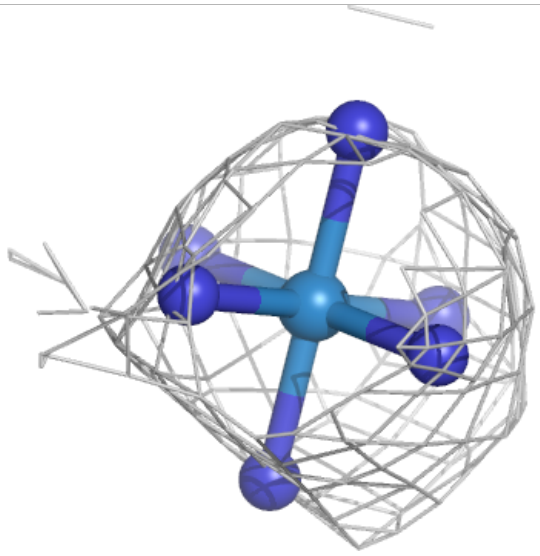


Electron density around OHX B1 3577:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

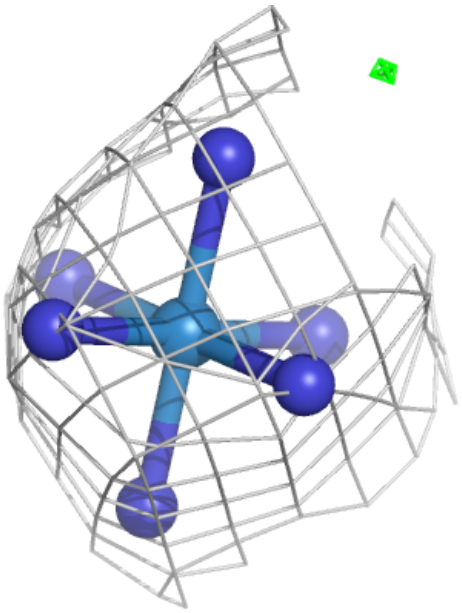


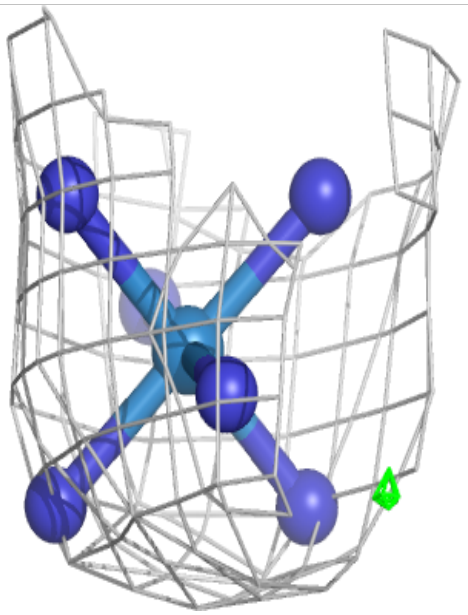


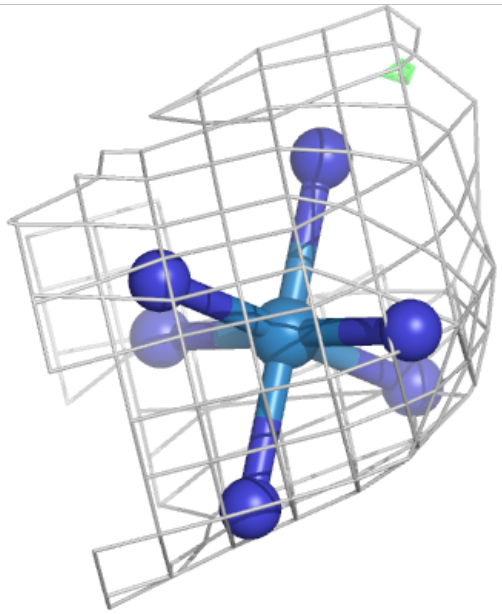


Electron density around OHX D1 3616:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

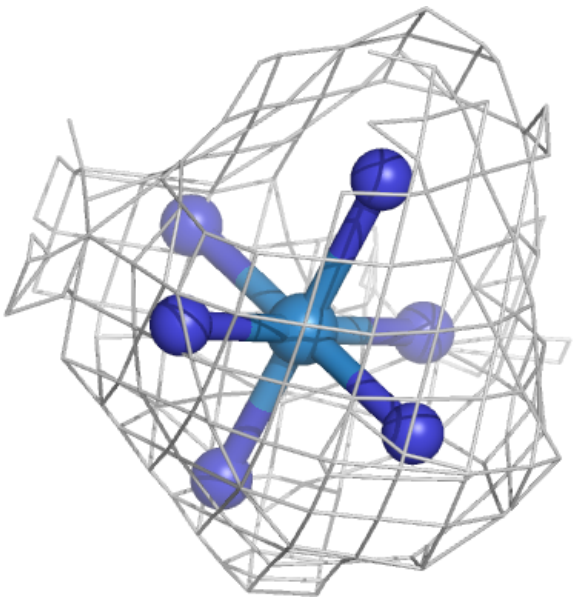


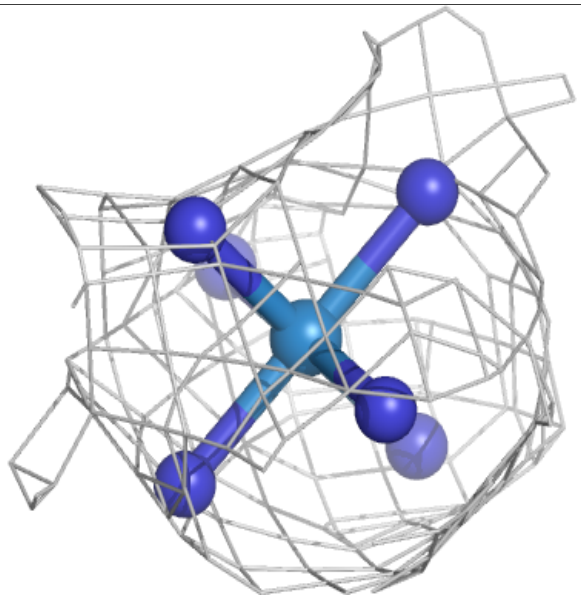


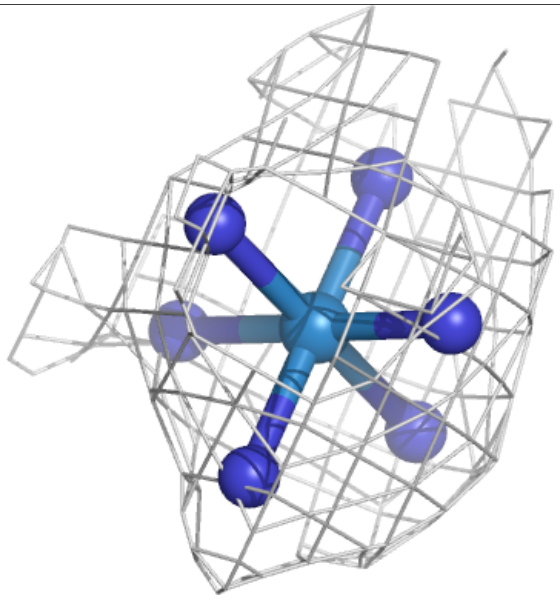


Electron density around OHX D1 3601:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

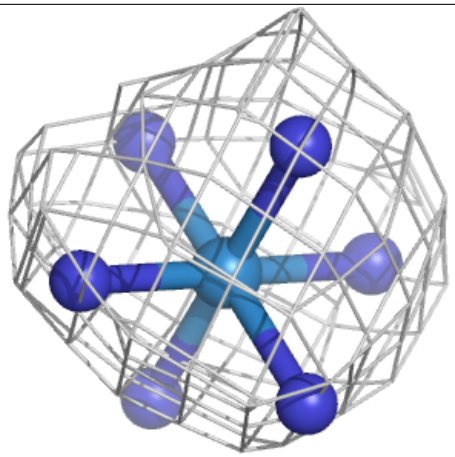


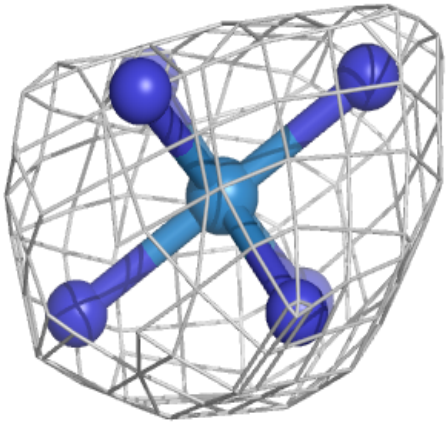


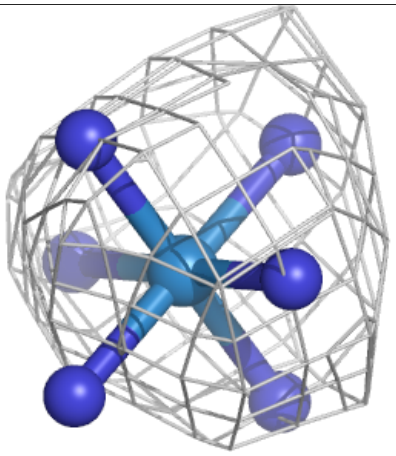


Electron density around OHX D1 3605:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

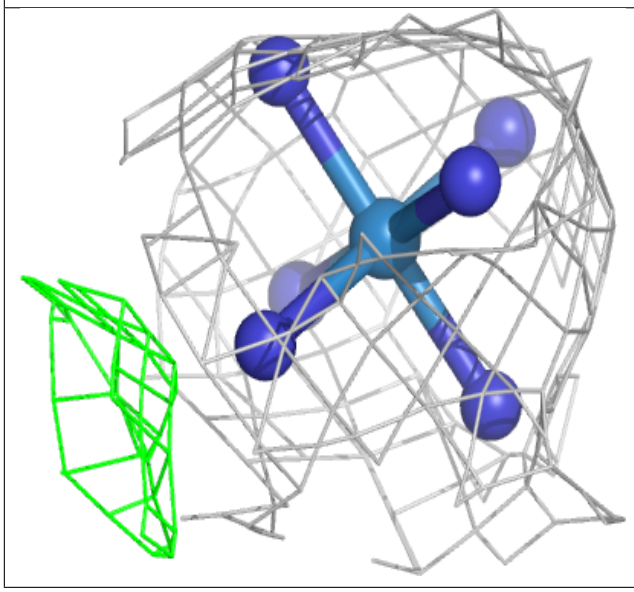


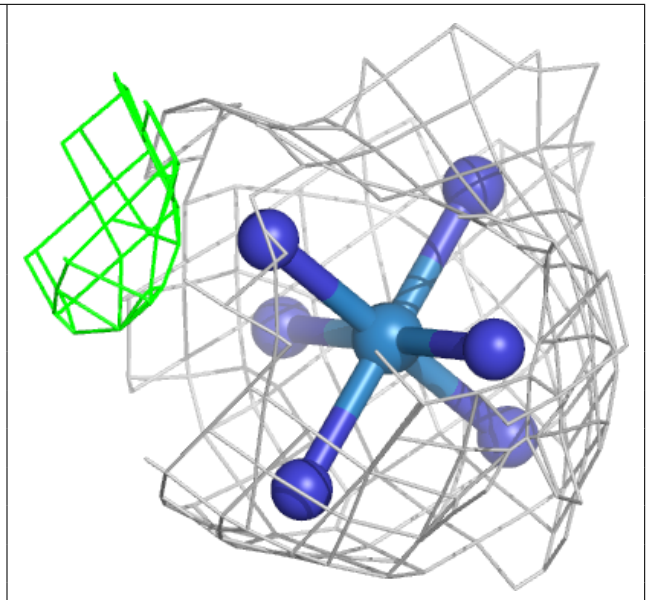


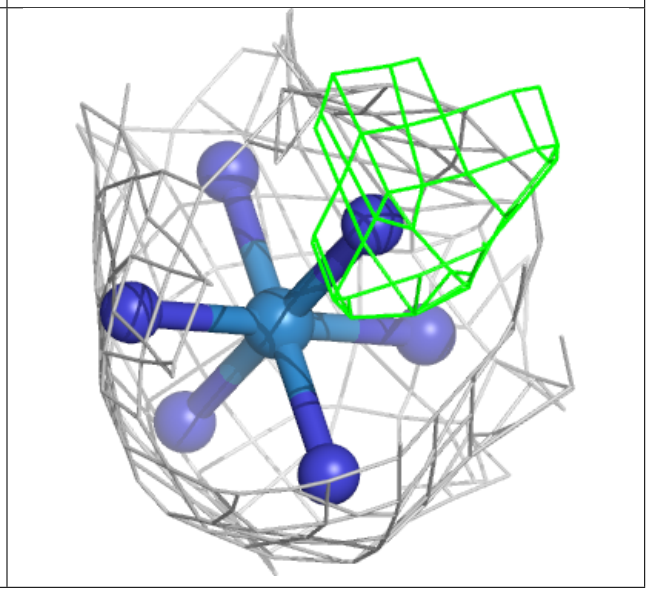


Electron density around OHX C1 1974:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

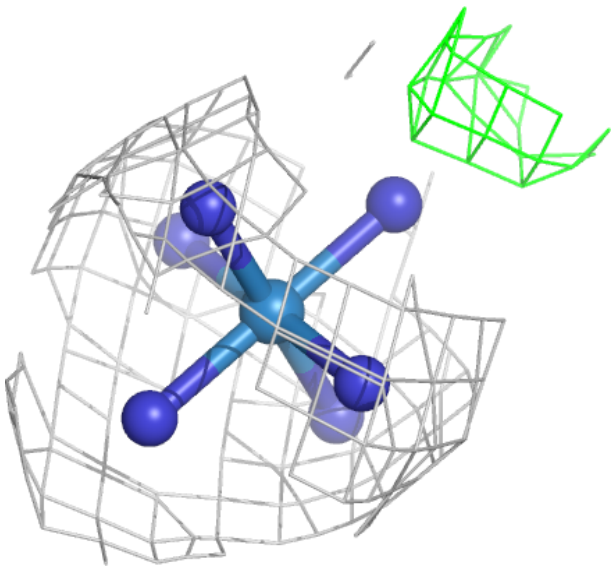


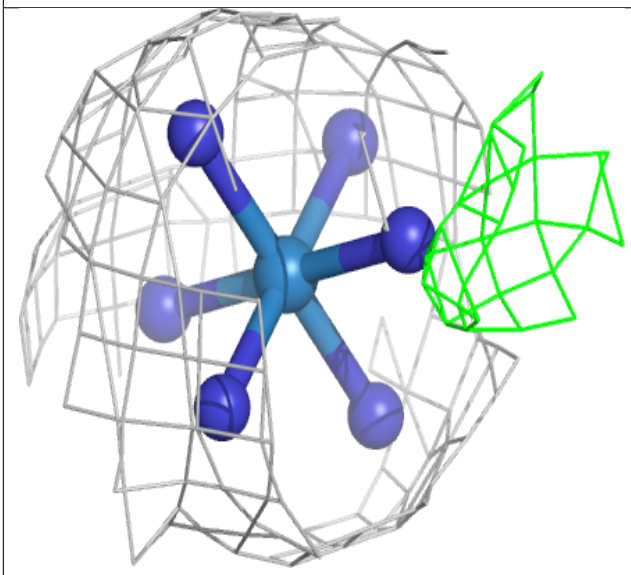


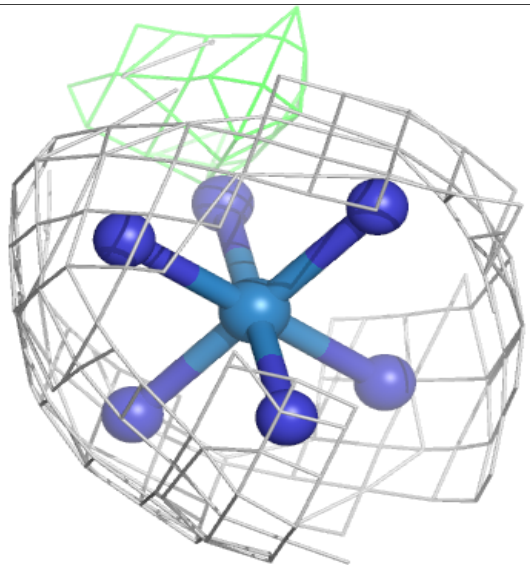


Electron density around OHX A1 1966:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

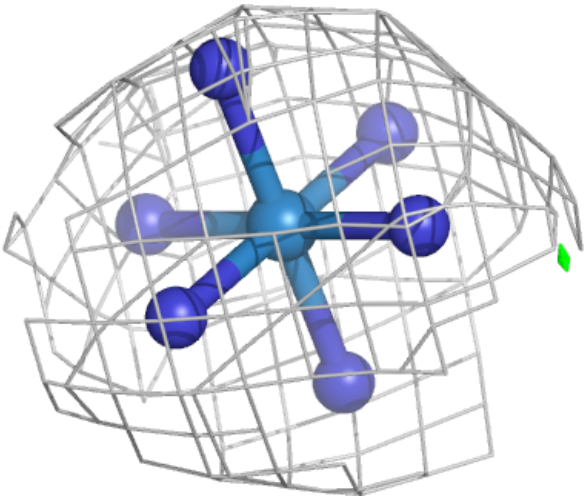


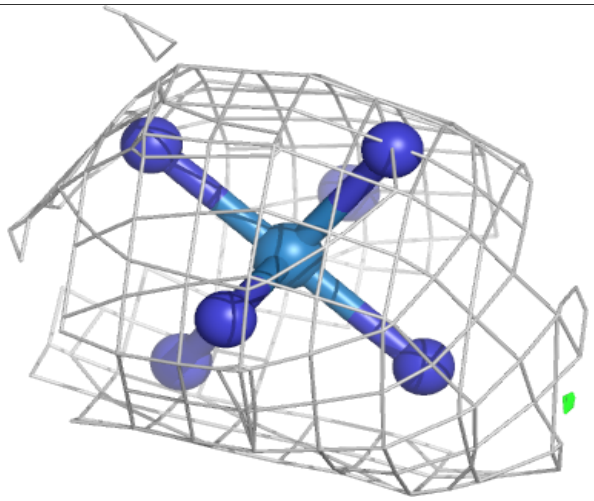


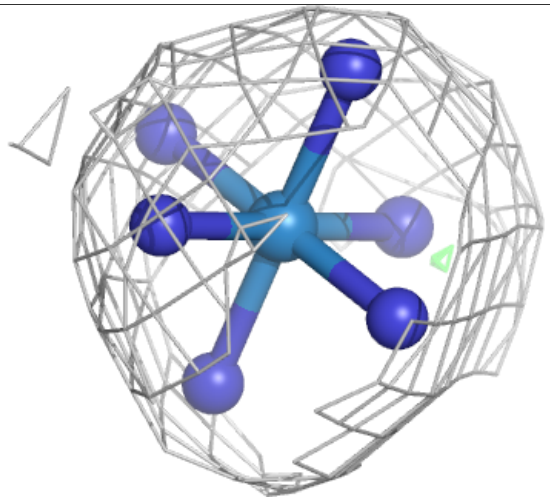


Electron density around OHX D1 3541:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

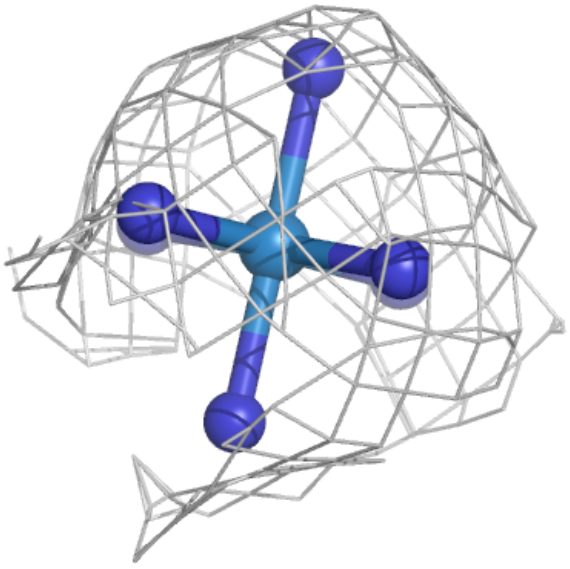


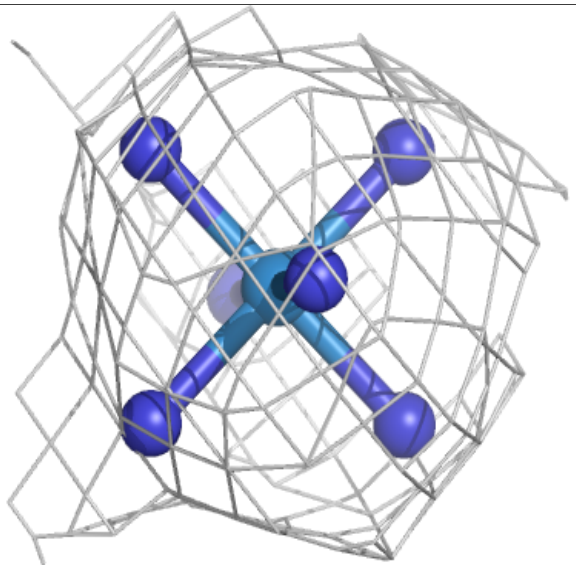


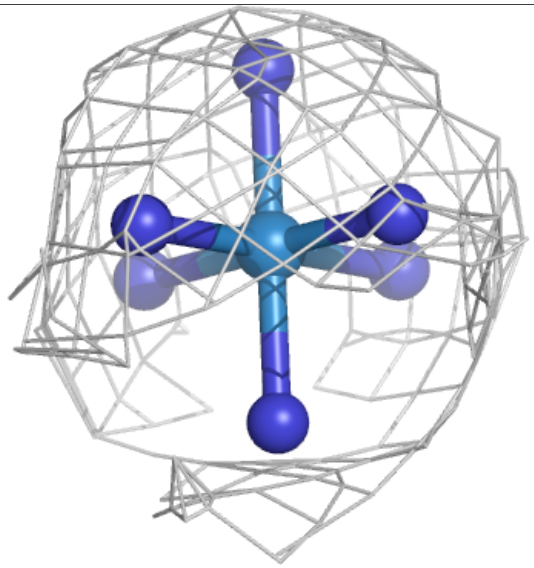


Electron density around OHX C1 1991:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

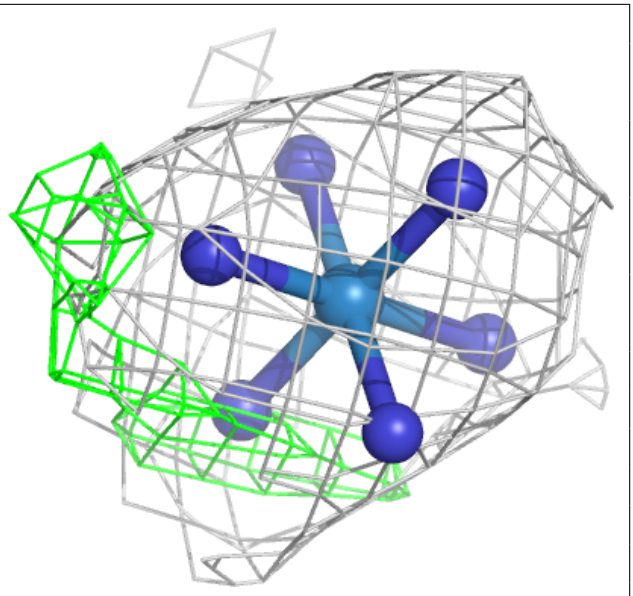


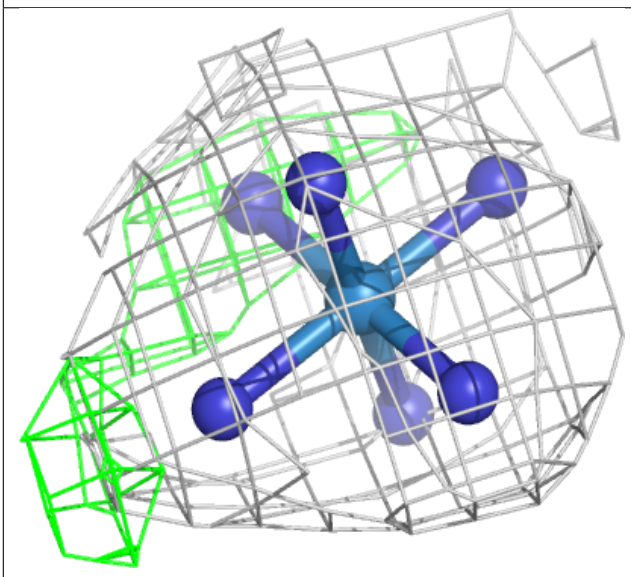


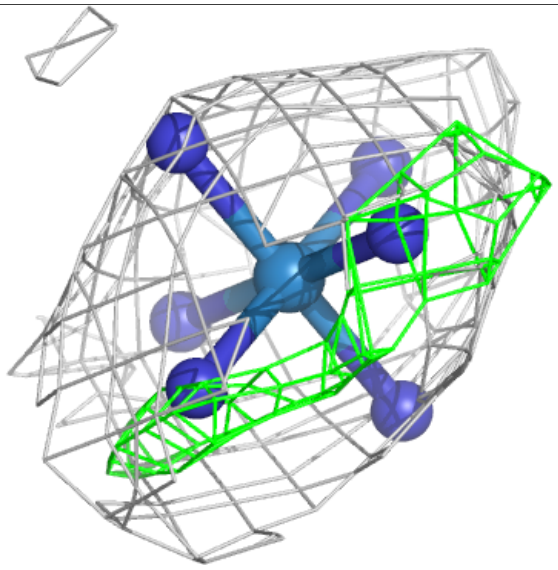


Electron density around OHX B1 3589:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

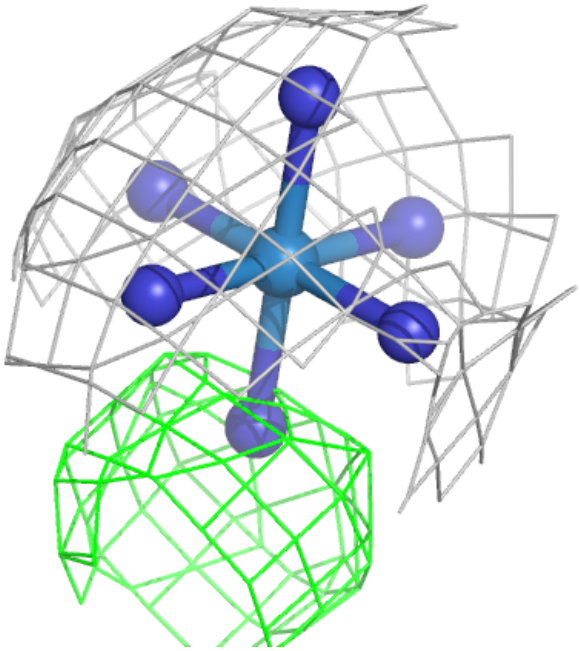


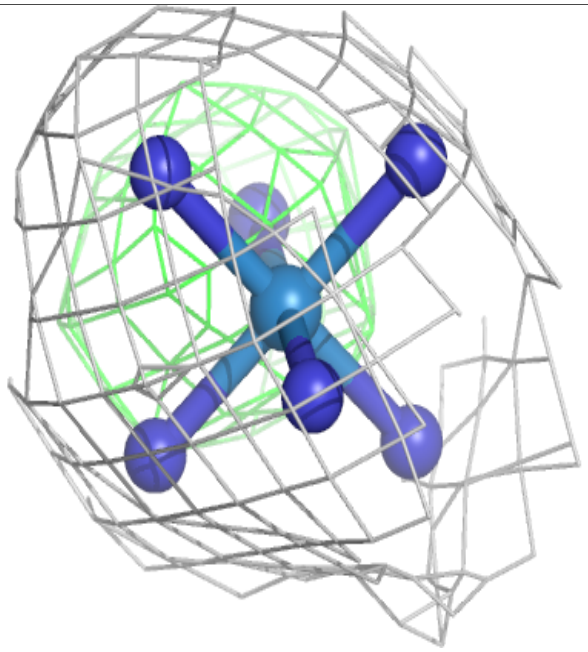


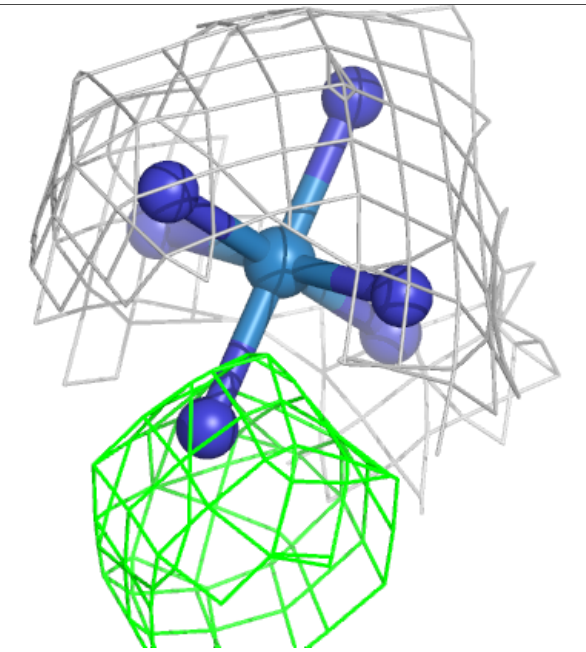


Electron density around OHX D3 206:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

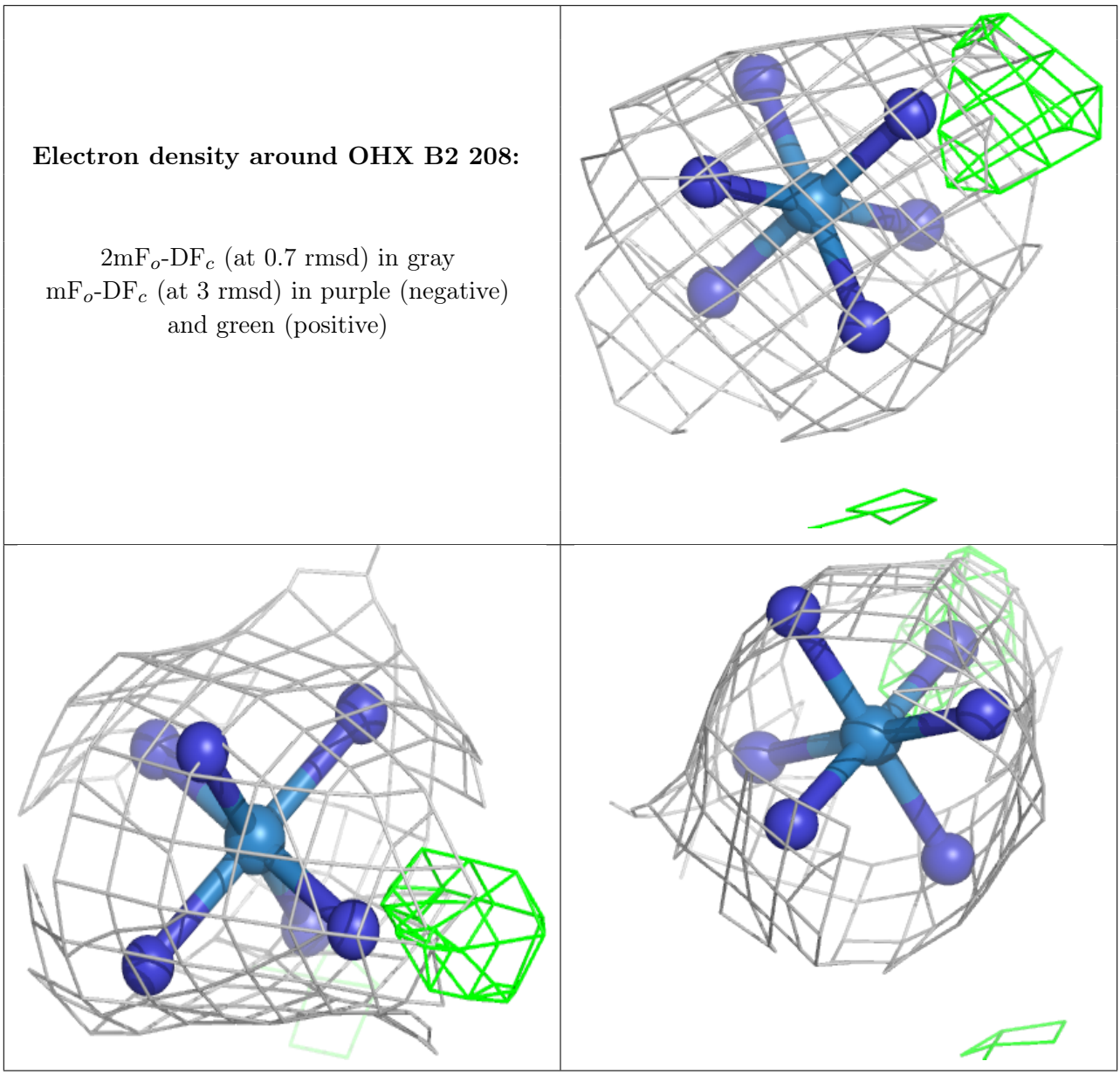






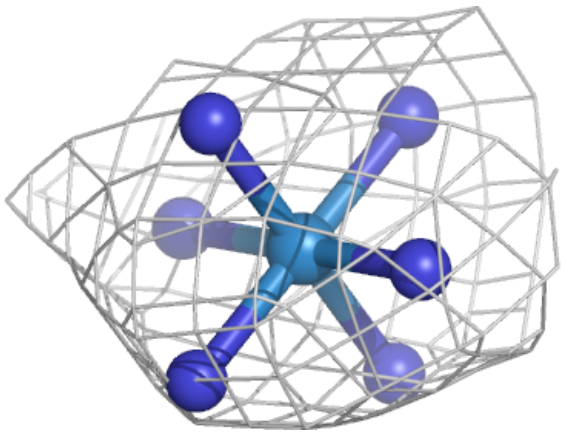
Electron density around OHX B2 208:

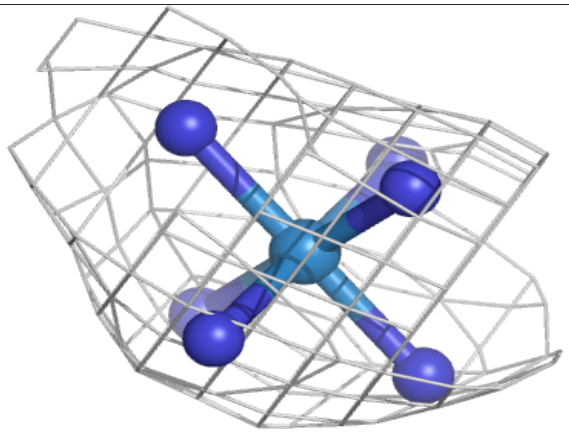
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

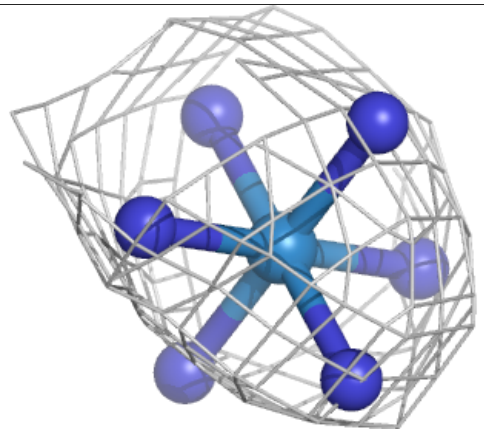


Electron density around OHX C1 1978:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

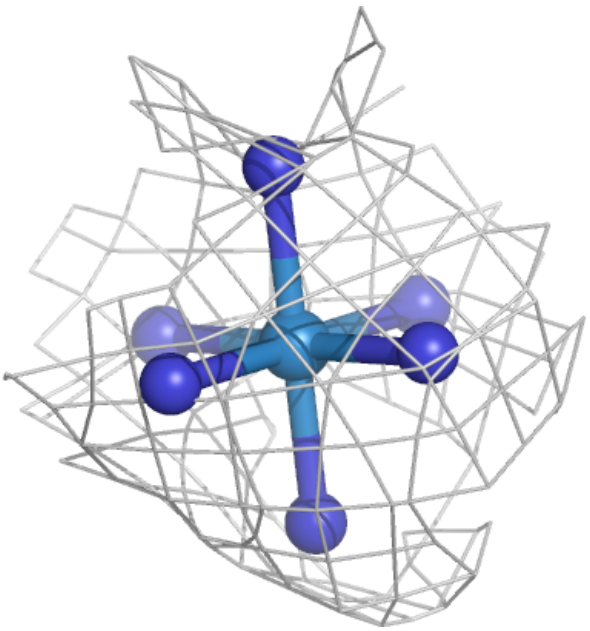


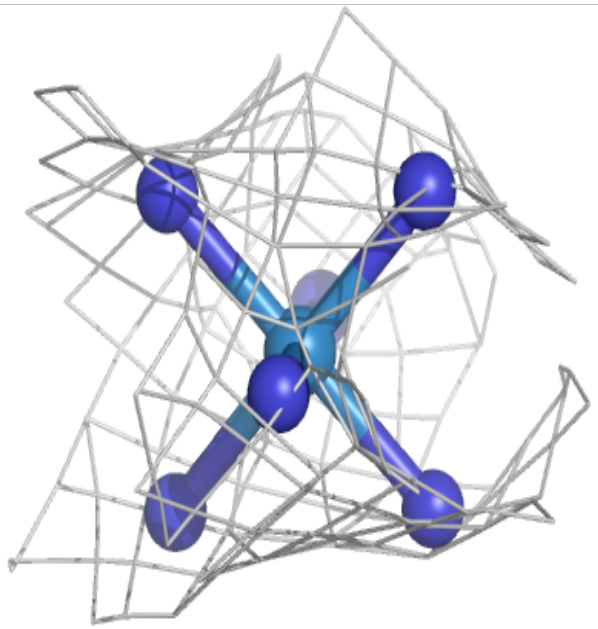


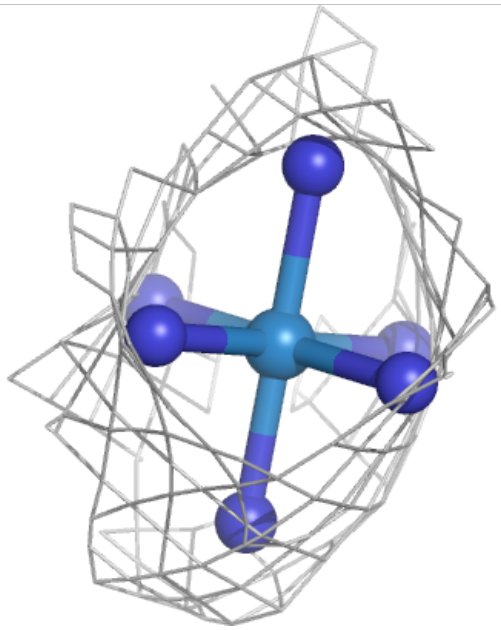


Electron density around OHX B2 210:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

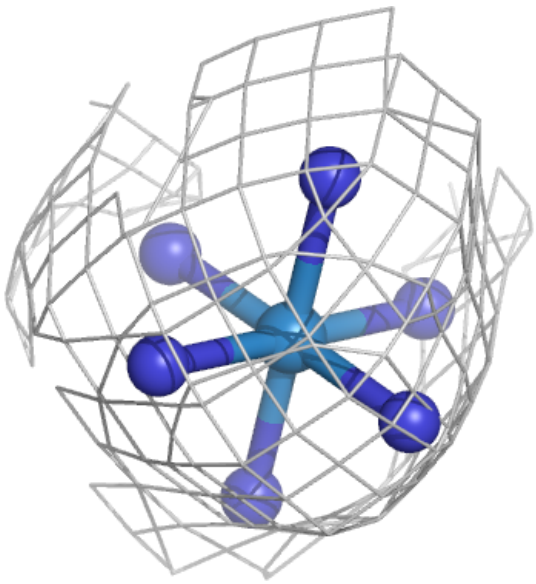


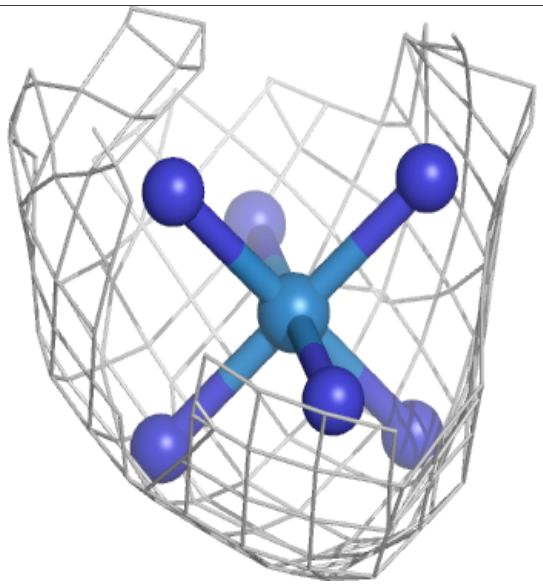


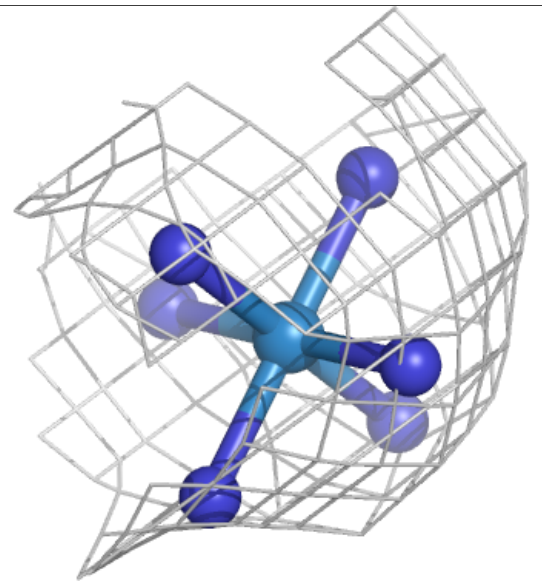


Electron density around OHX C1 1985:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

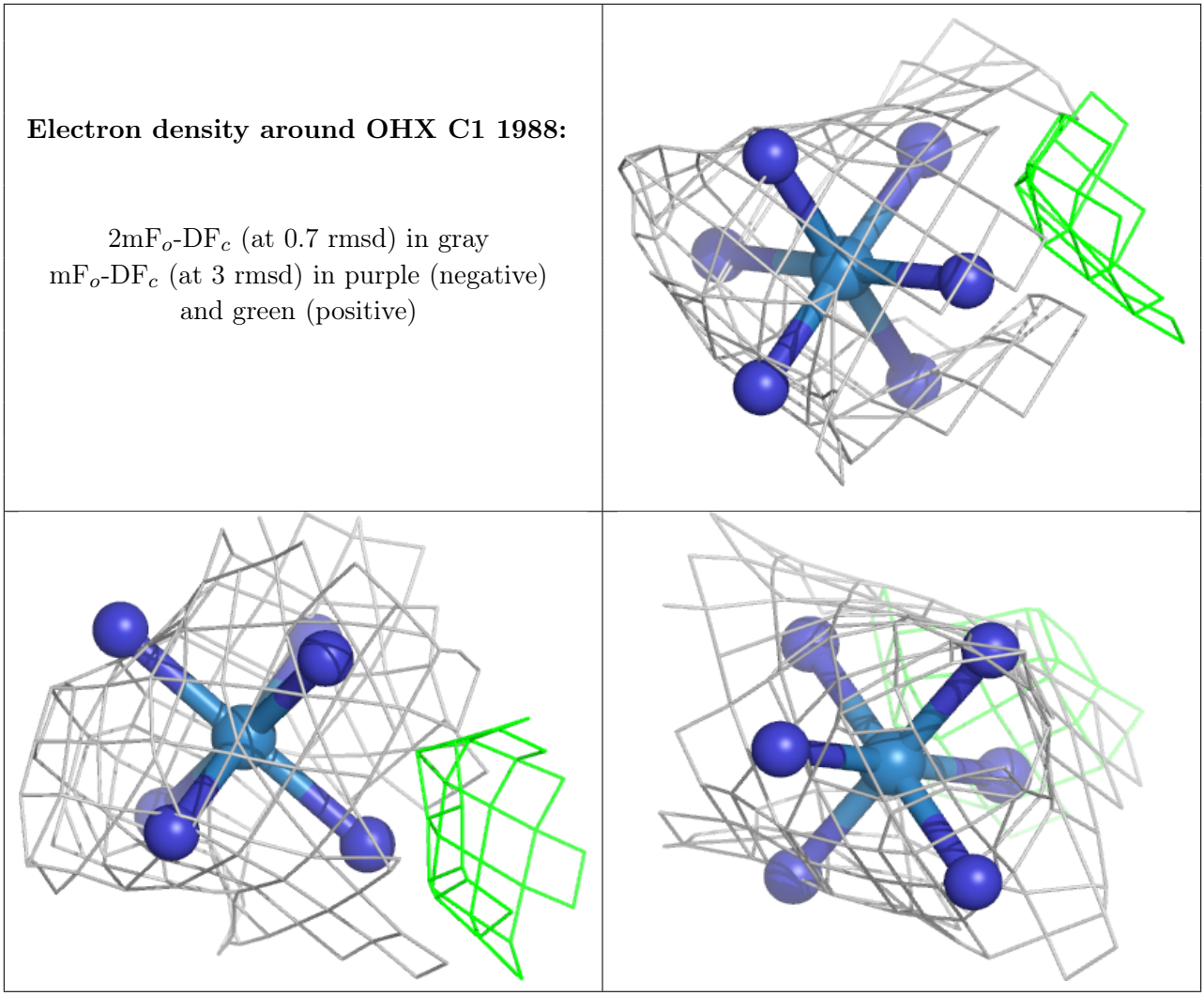






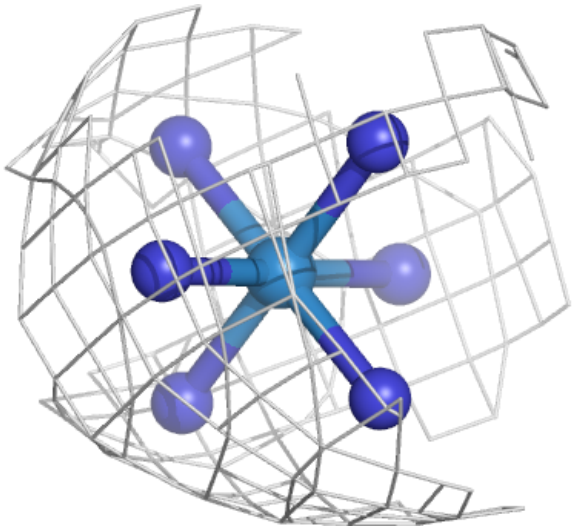
Electron density around OHX C1 1988:

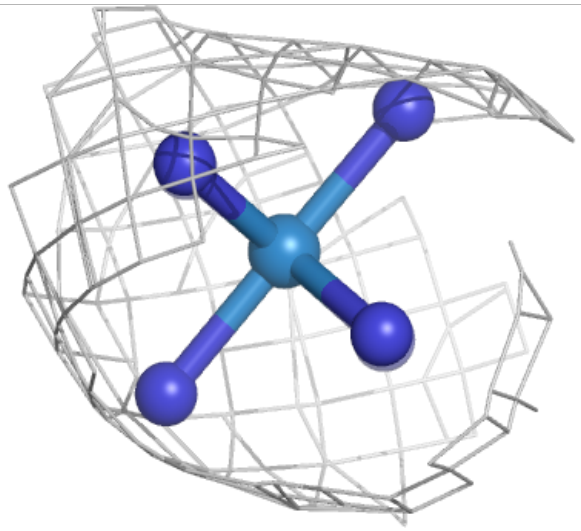
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

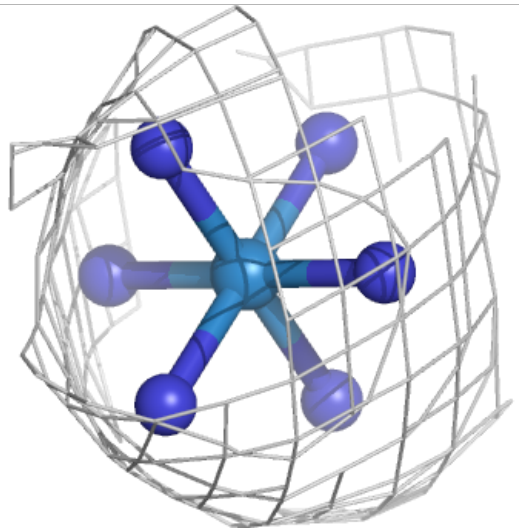


Electron density around OHX B2 207:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

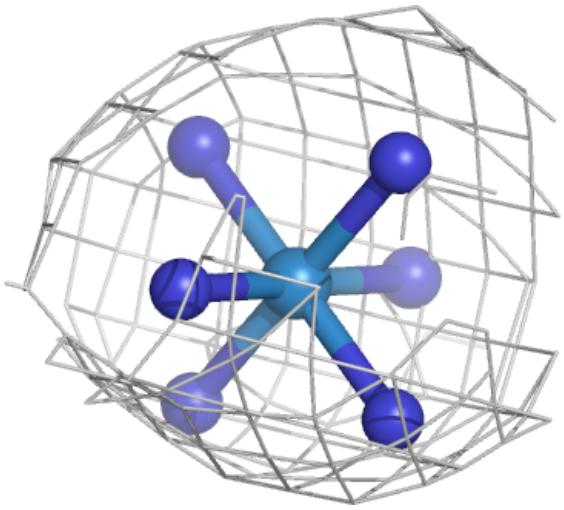


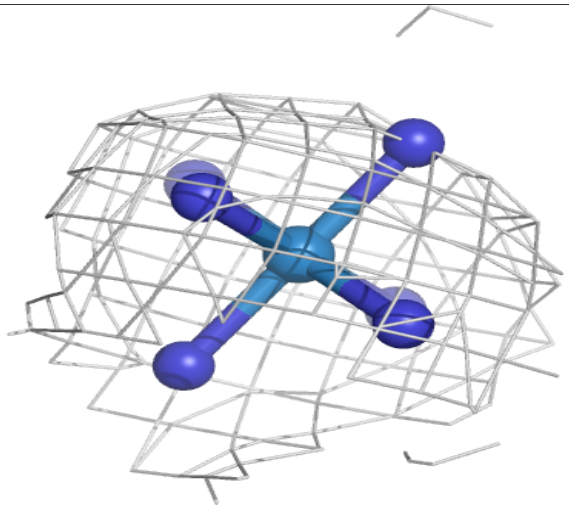


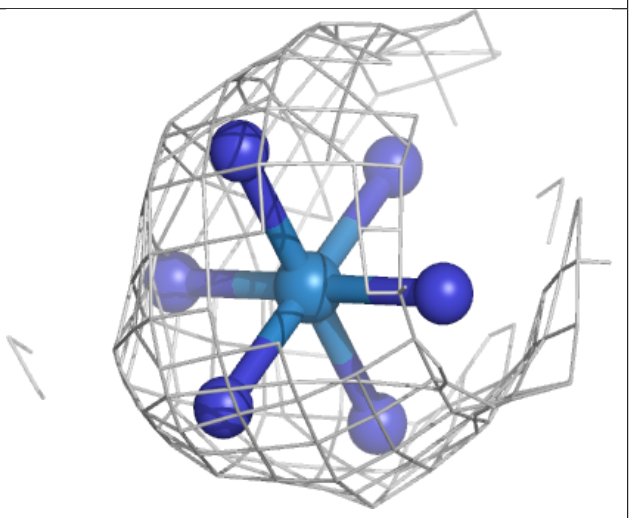


Electron density around OHX A1 1953:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

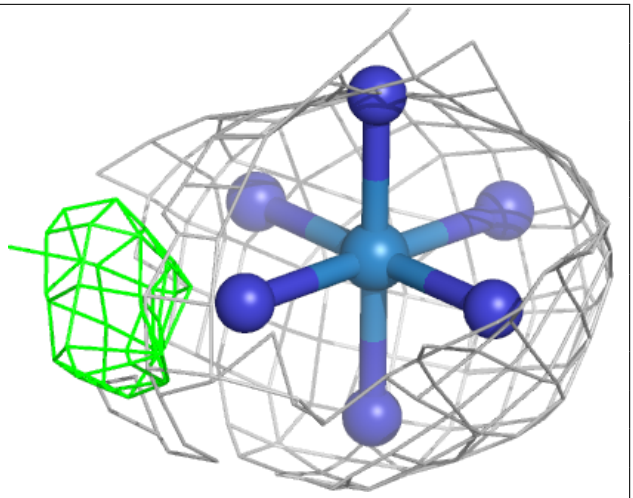


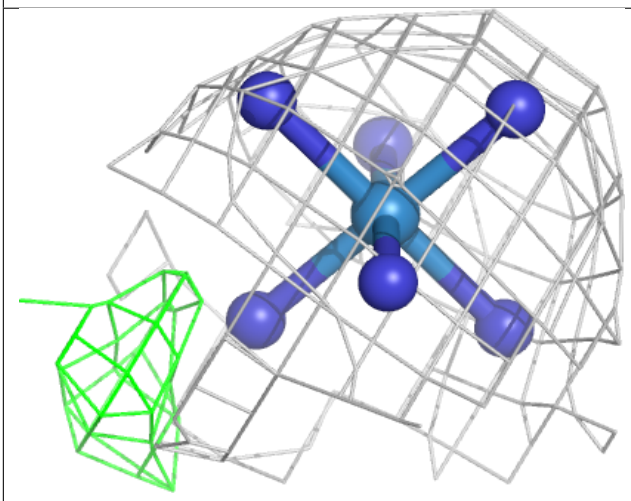


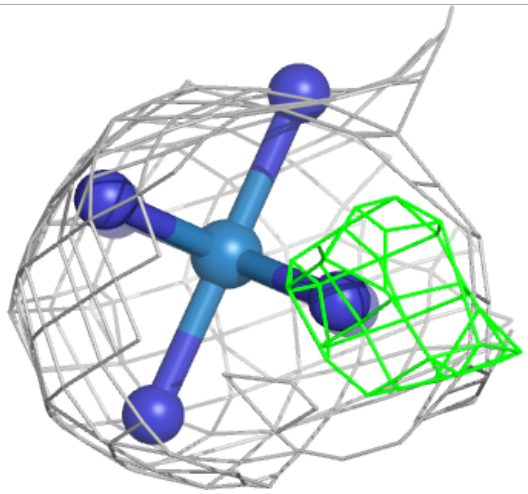


Electron density around OHX C1 1976:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

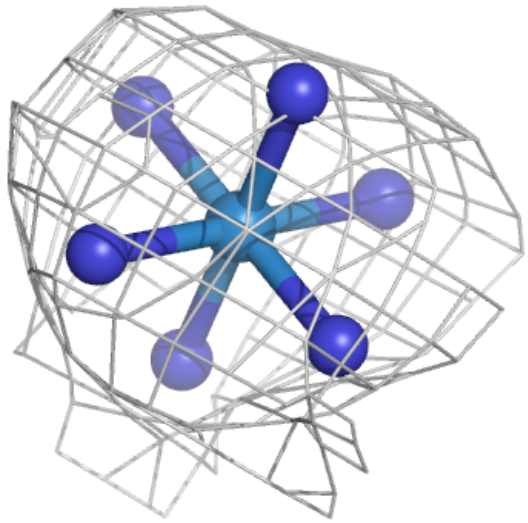


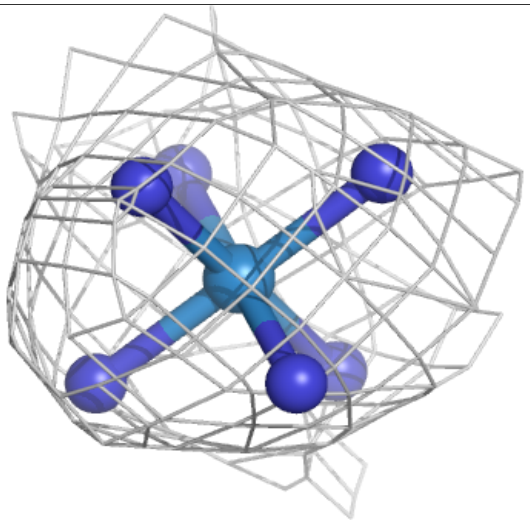


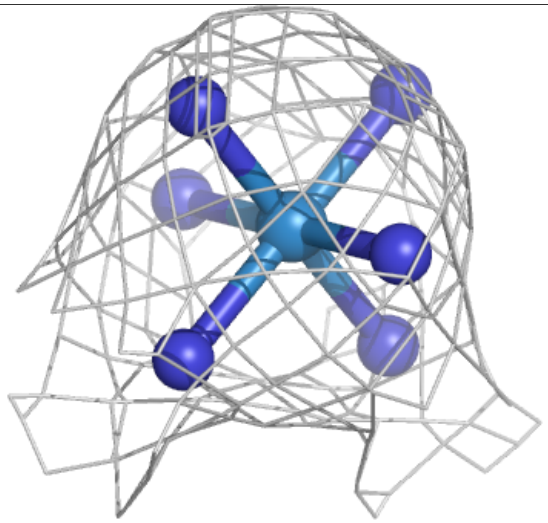


Electron density around OHX D1 3610:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

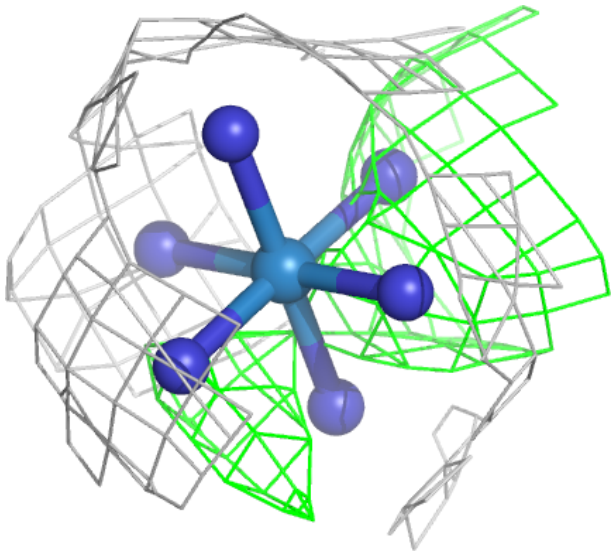


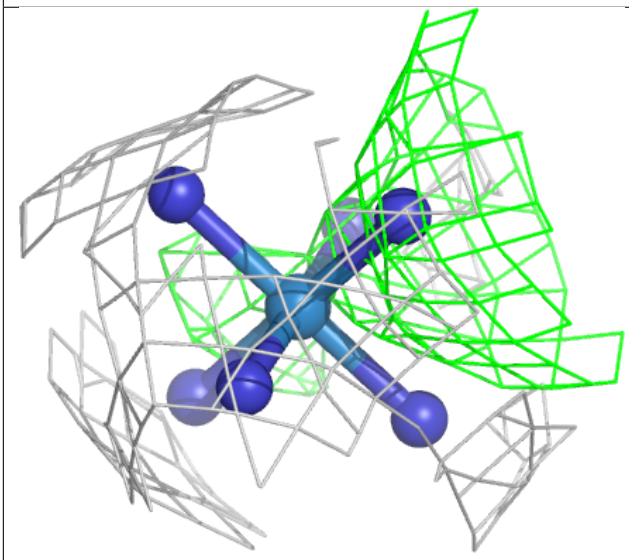


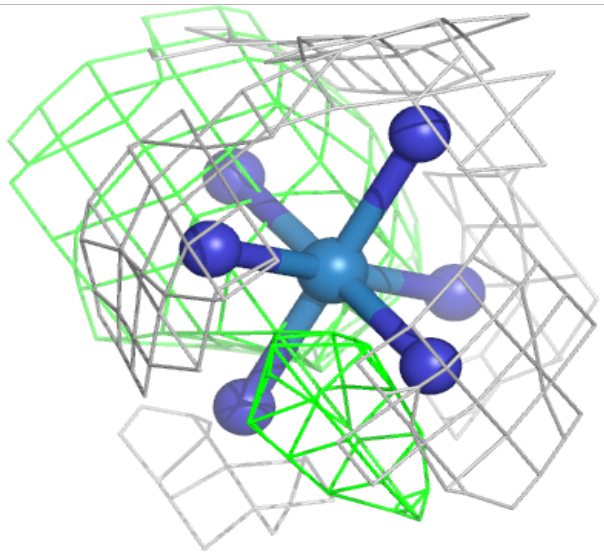


Electron density around OHX D1 3519:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

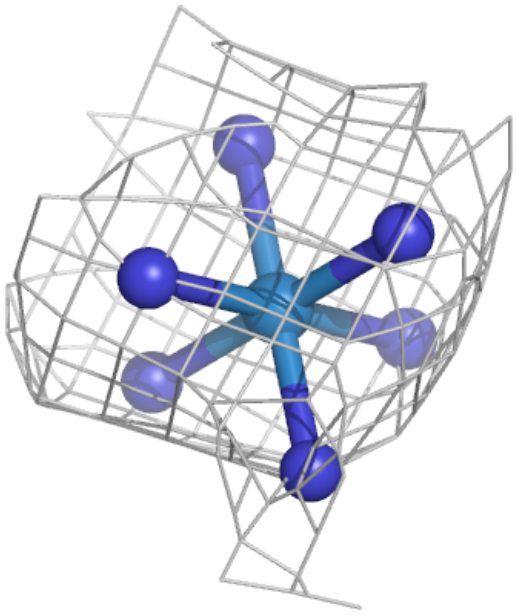


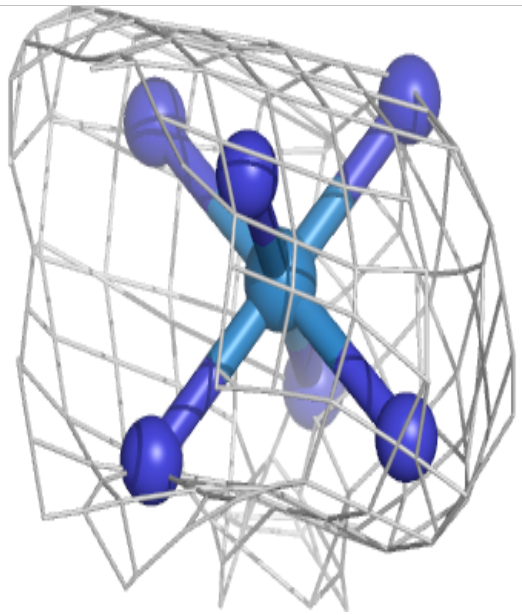


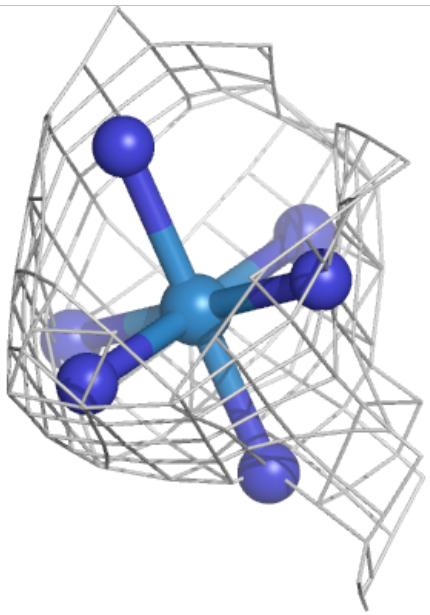


Electron density around OHX A1 1974:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

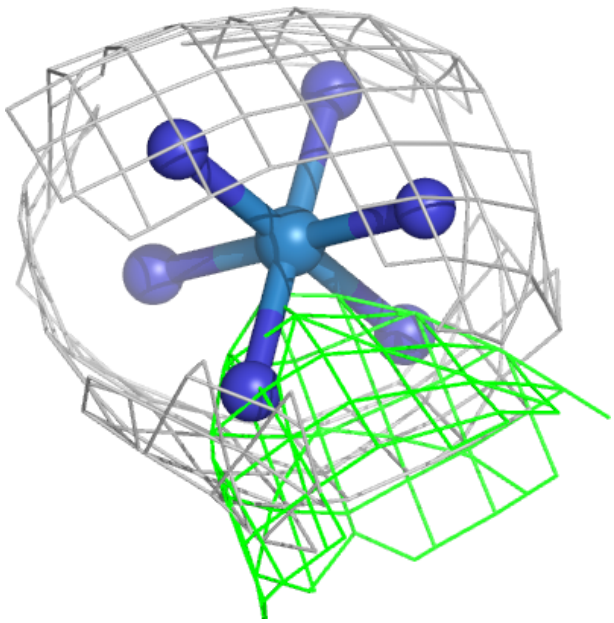


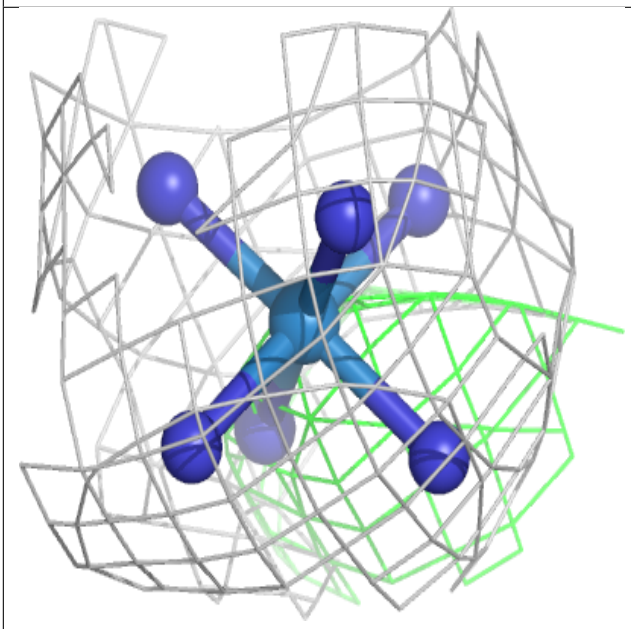


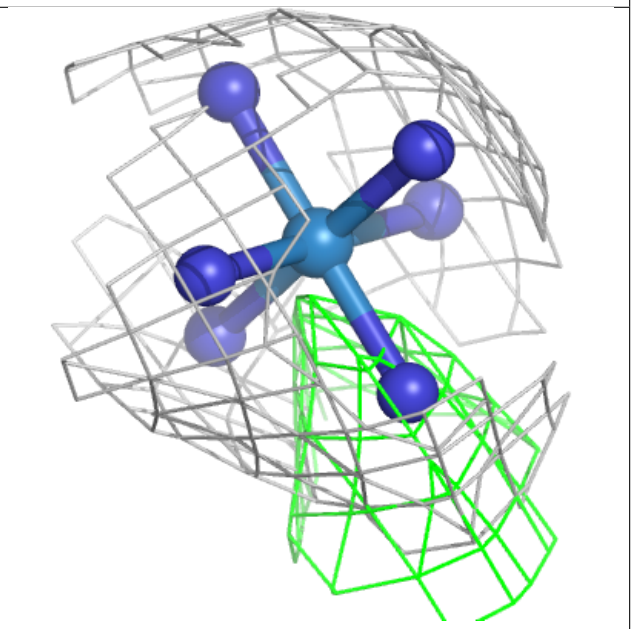


Electron density around OHX D1 3568:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

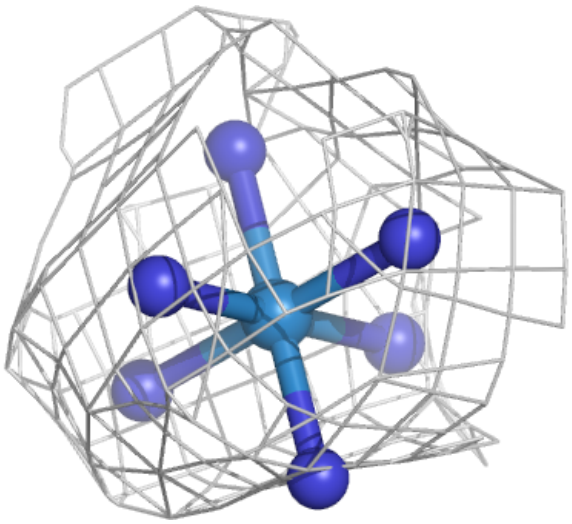


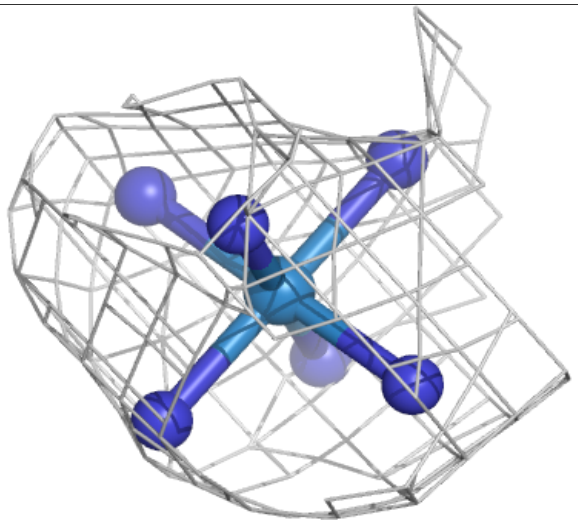


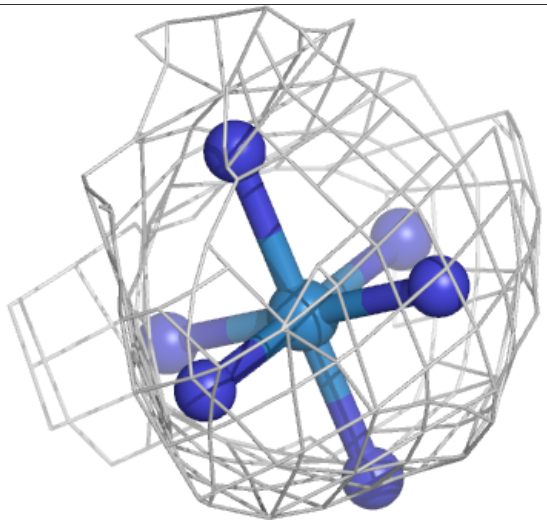


Electron density around OHX D1 3623:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

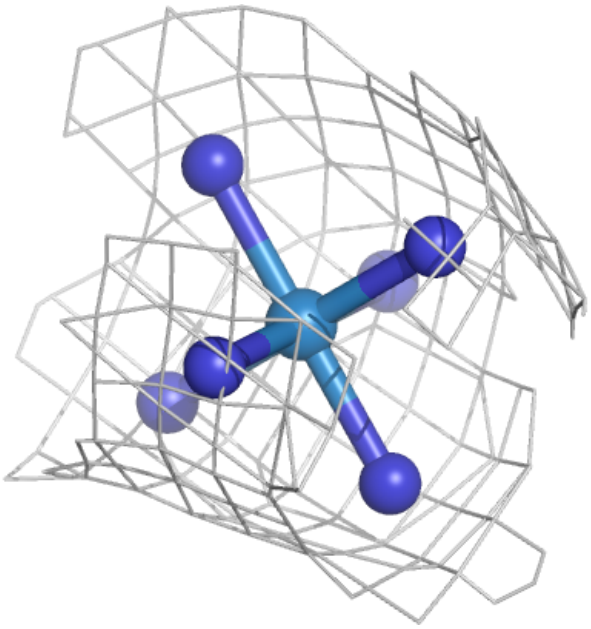


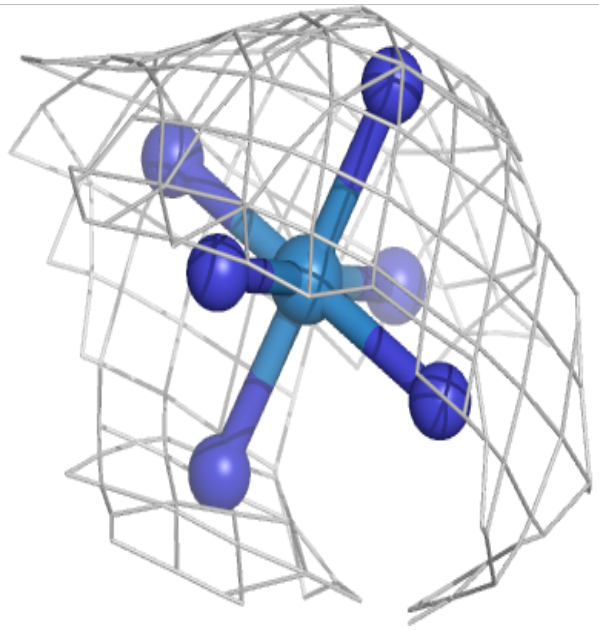


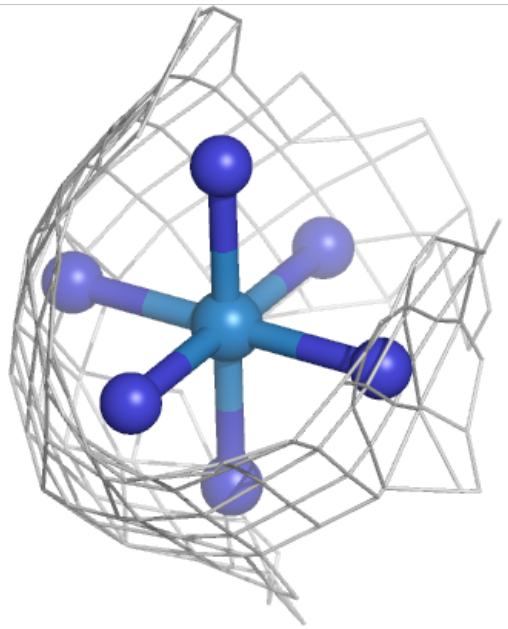


Electron density around OHX A1 1995:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

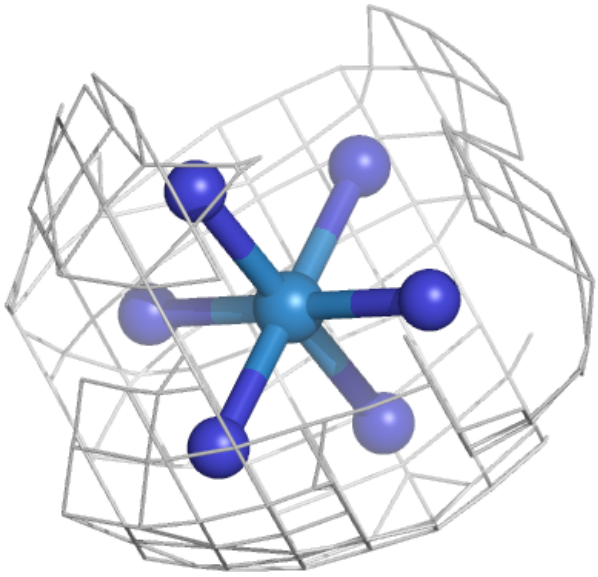


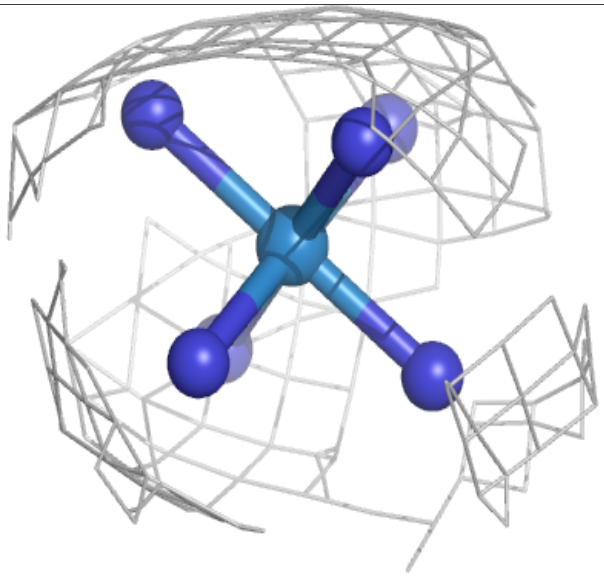


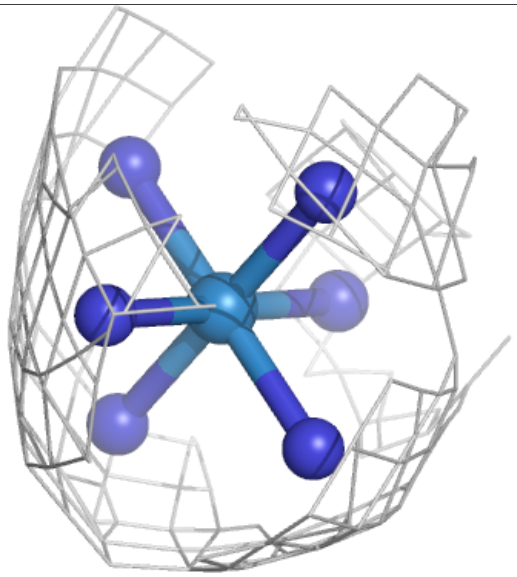


Electron density around OHX D1 3603:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

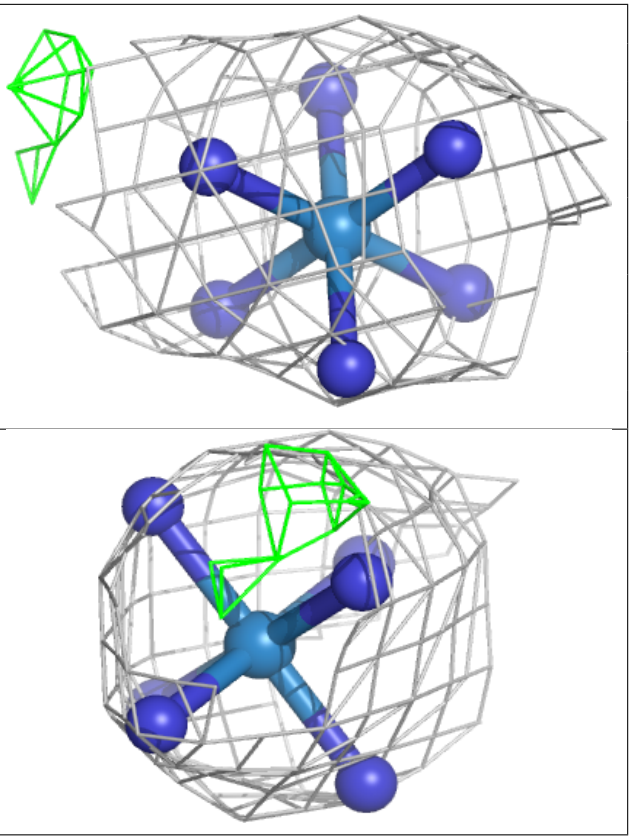


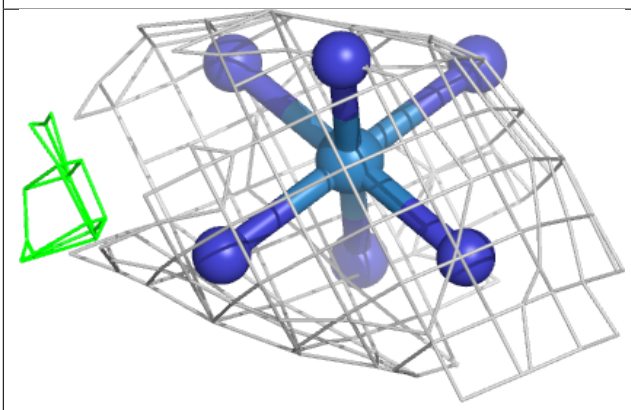




Electron density around OHX D1 3522:

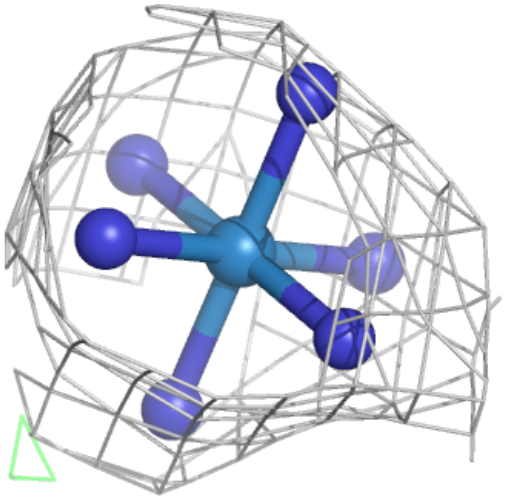
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

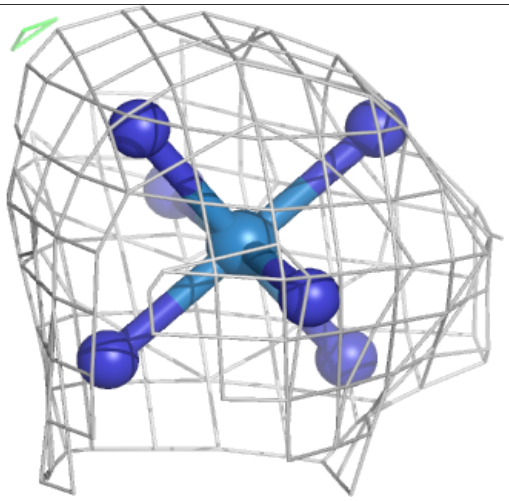


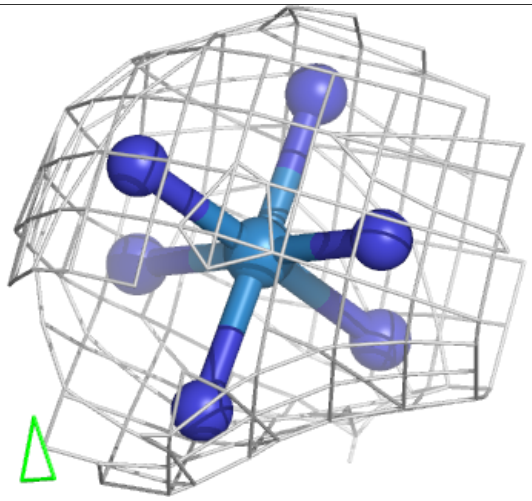


Electron density around OHX D1 3555:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

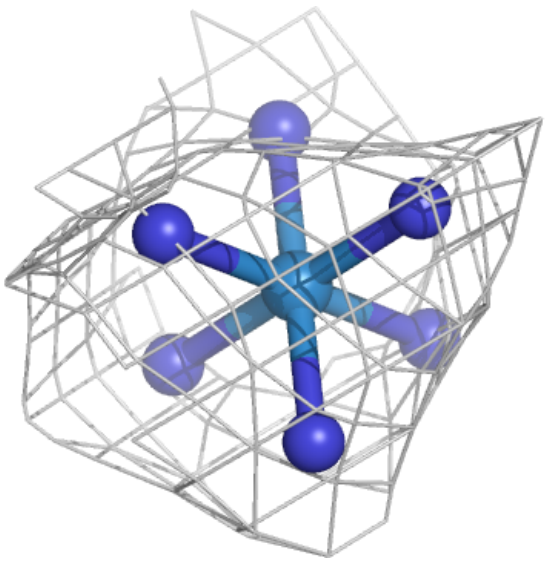


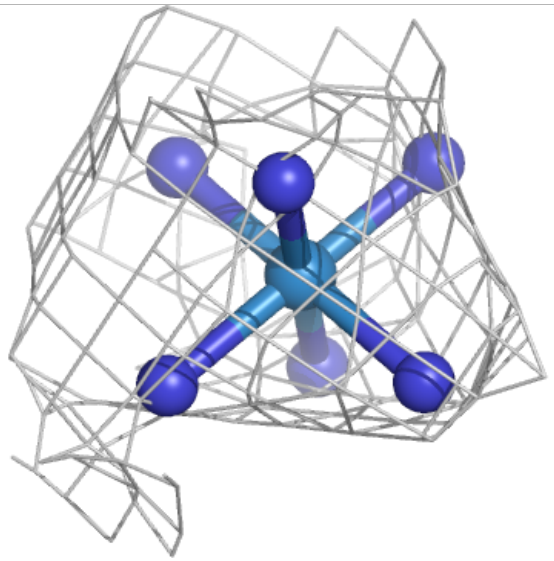


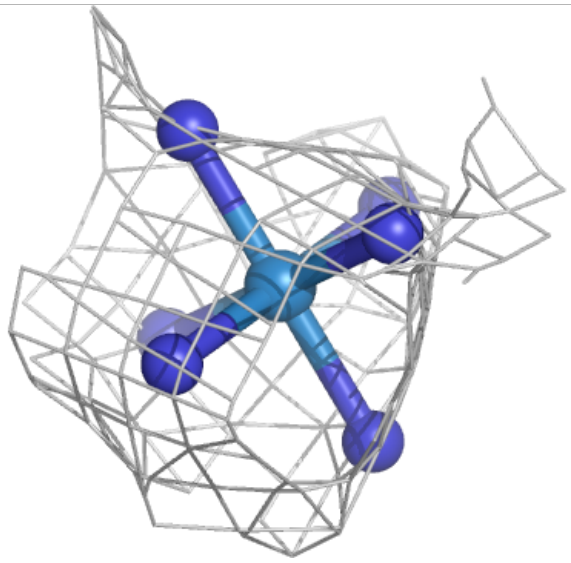


Electron density around OHX A1 1978:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

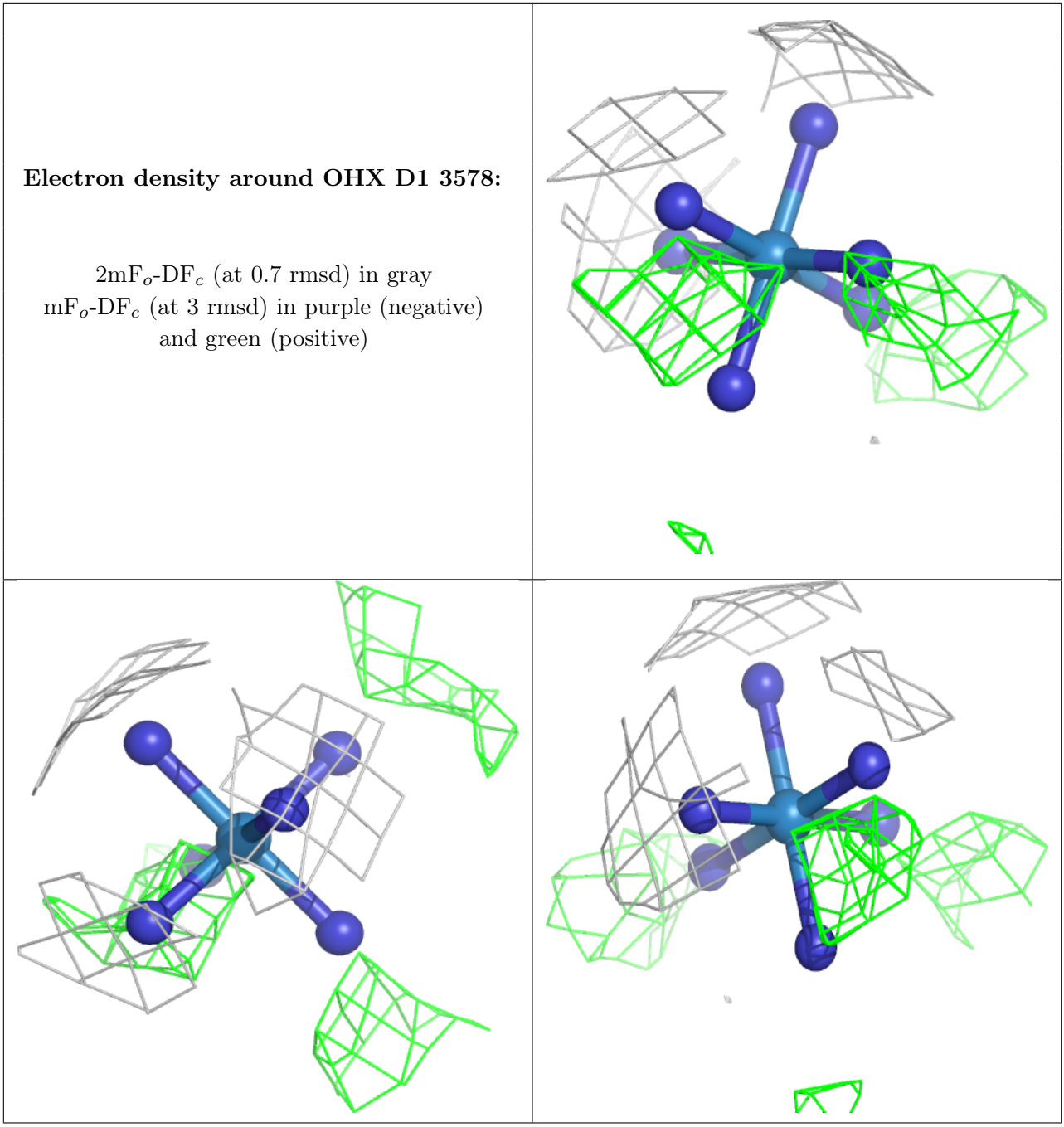






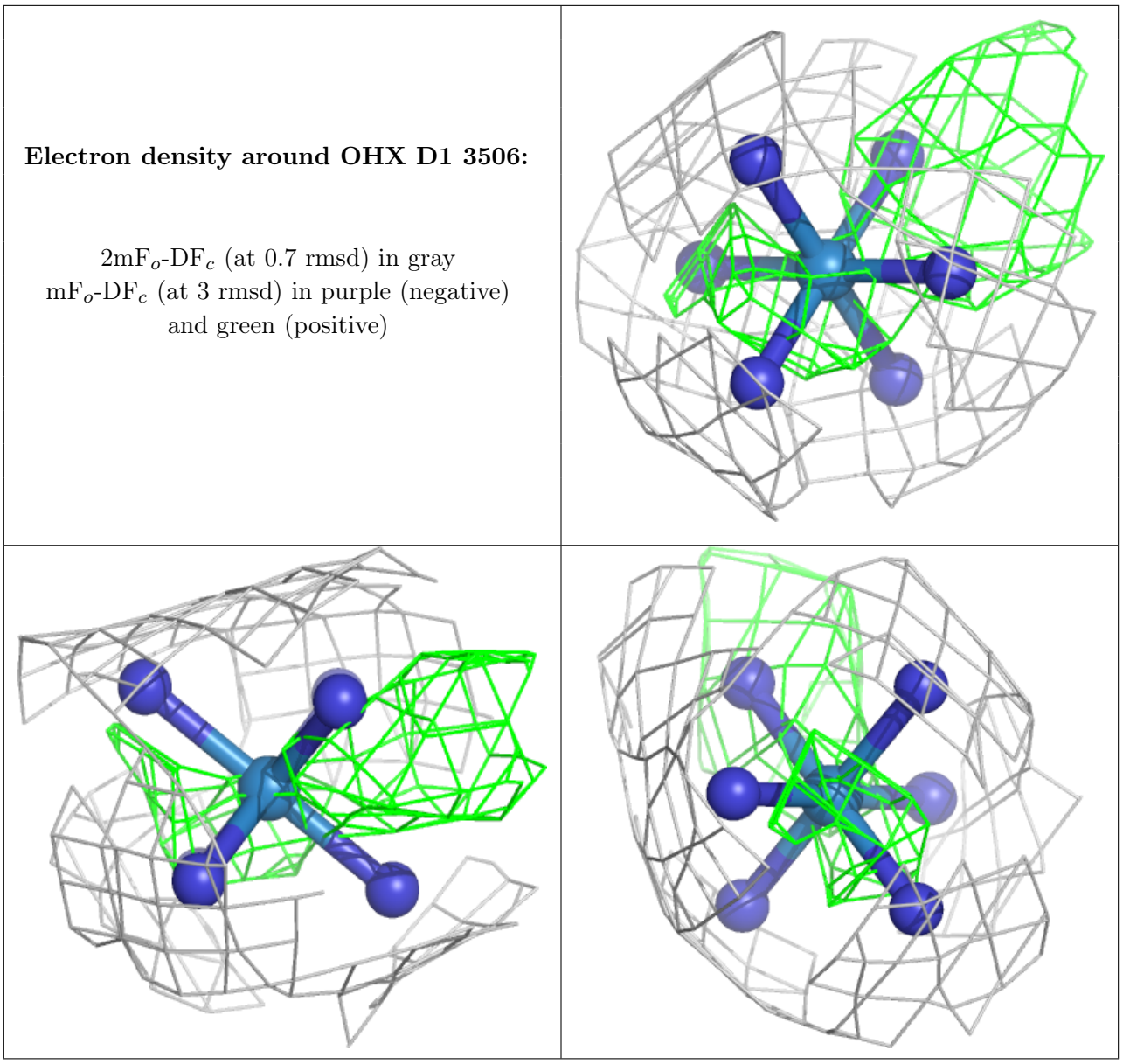
Electron density around OHX D1 3578:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



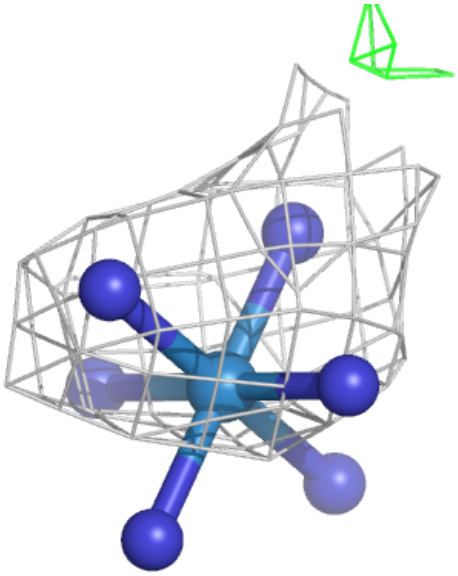
Electron density around OHX D1 3506:

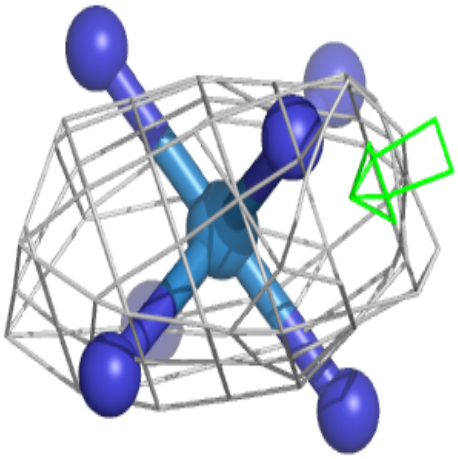
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

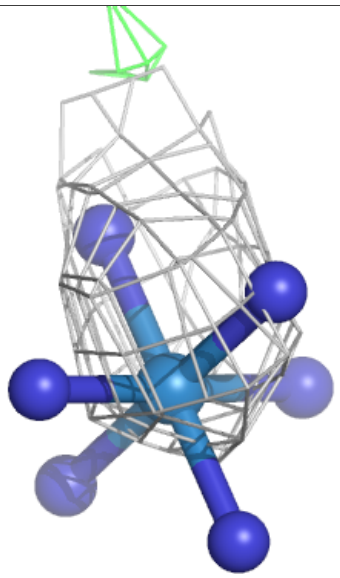


Electron density around OHX D1 3593:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

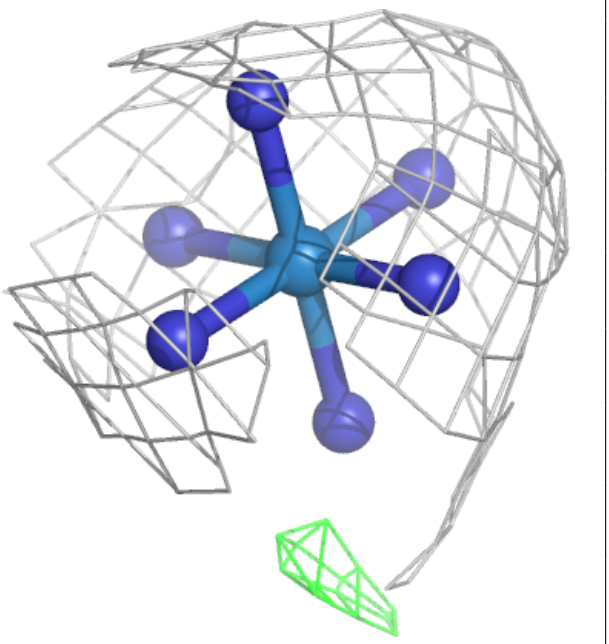


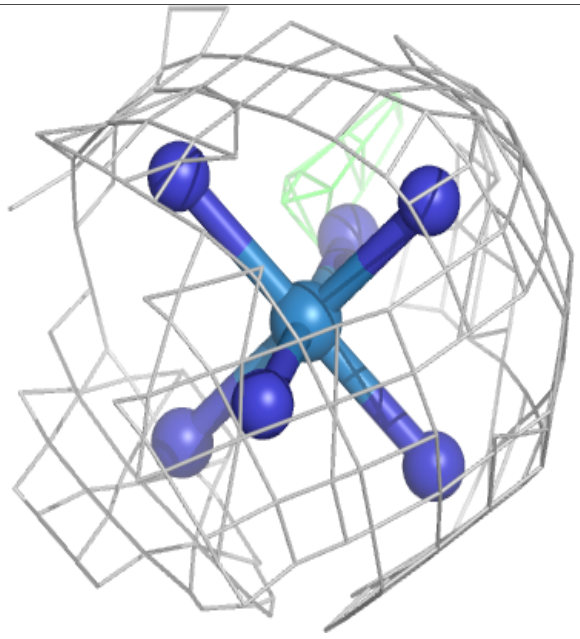


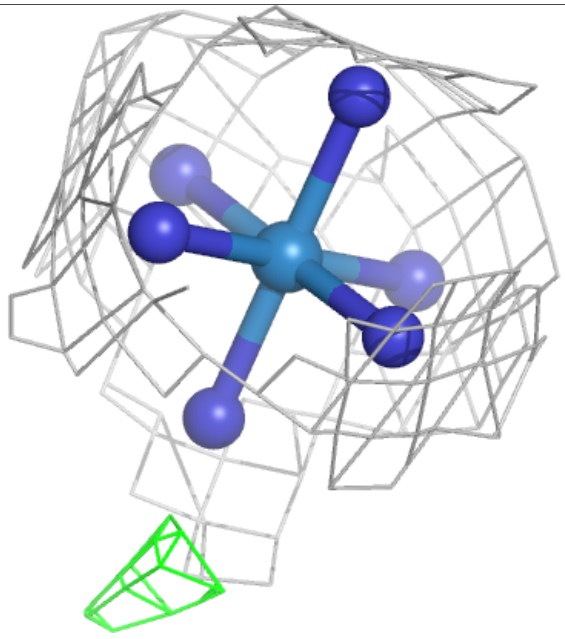


Electron density around OHX B1 3545:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

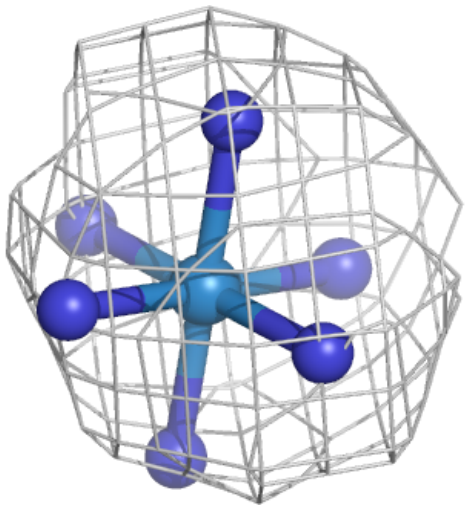


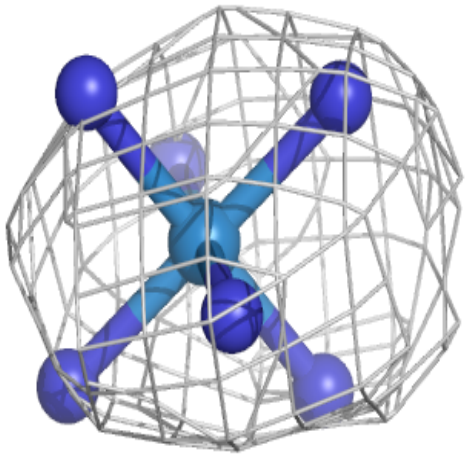


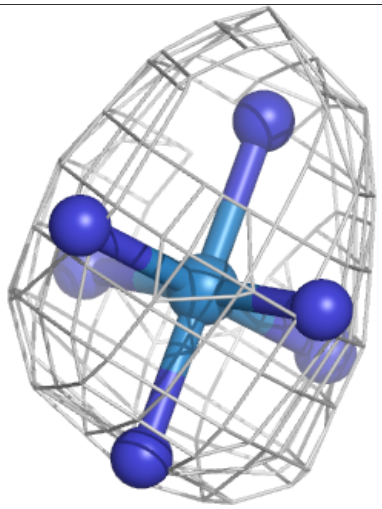


Electron density around OHX D1 3587:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

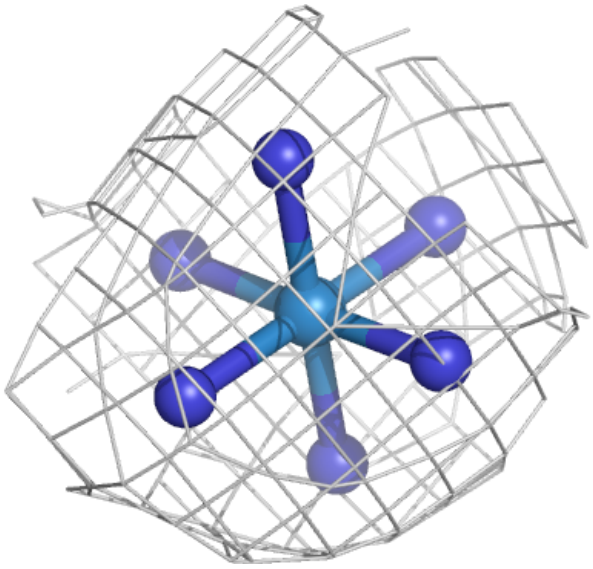


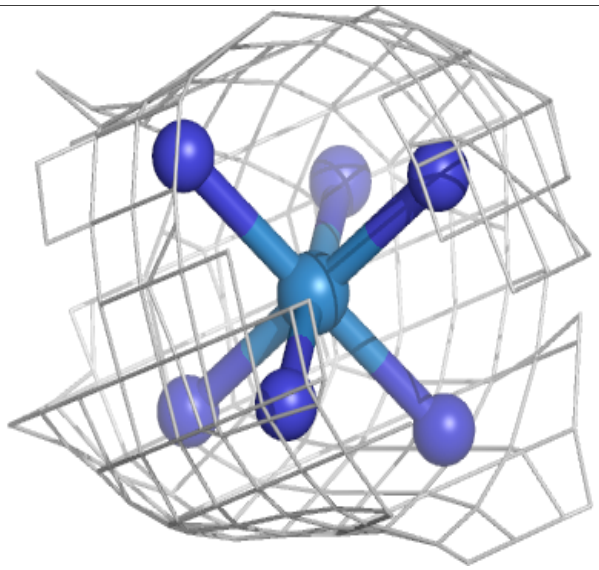


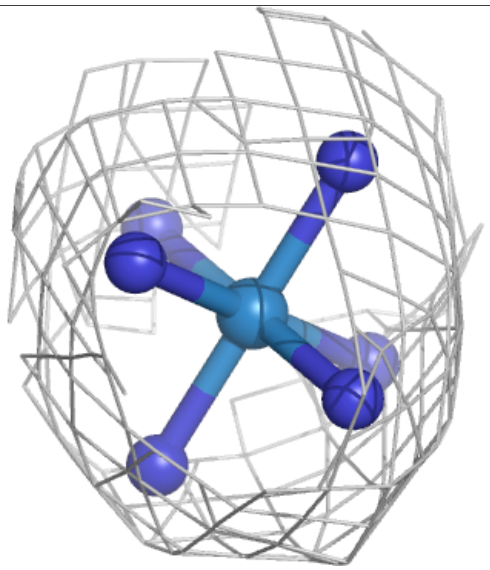


Electron density around OHX B1 3533:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

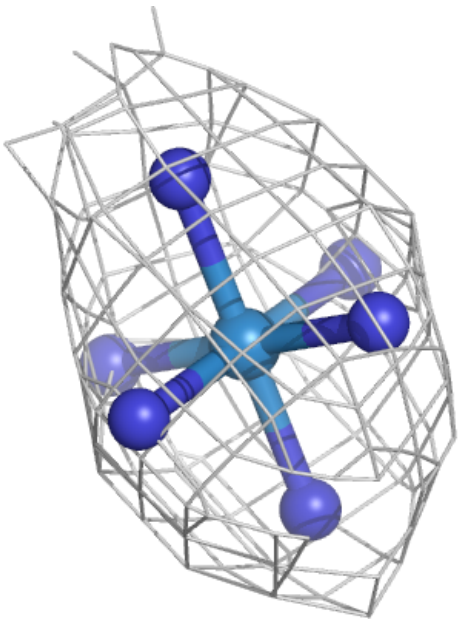


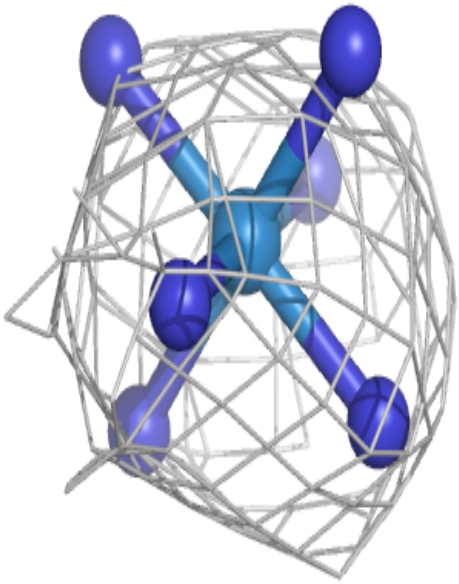


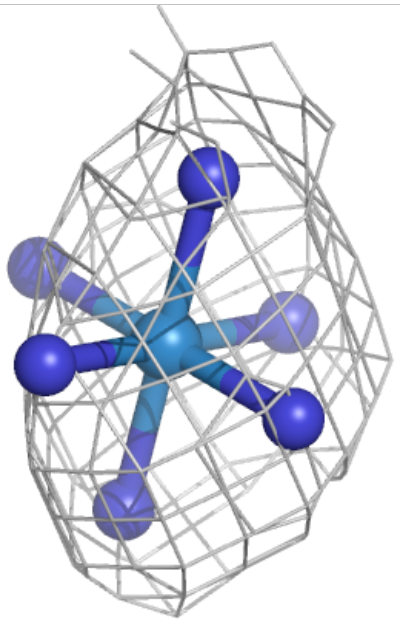


Electron density around OHX BO 301:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

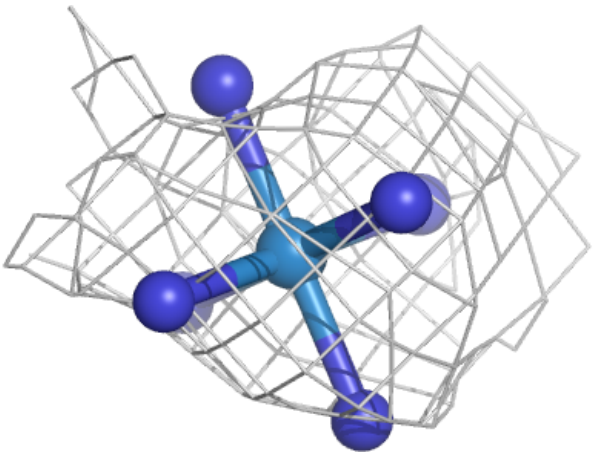


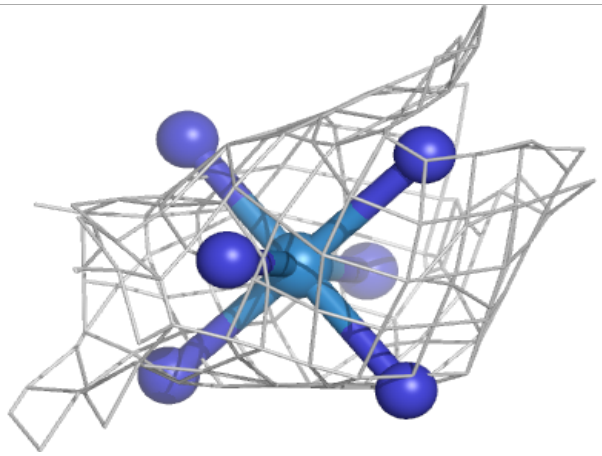


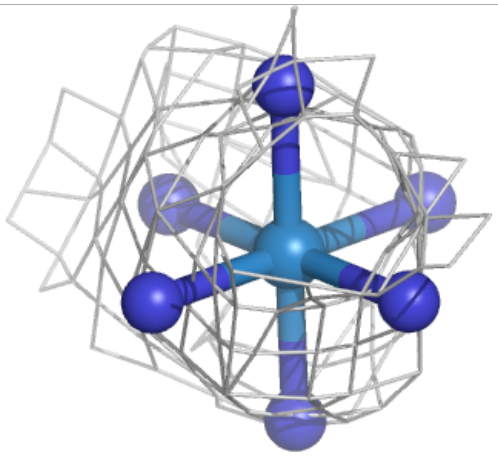


Electron density around OHX A1 1996:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

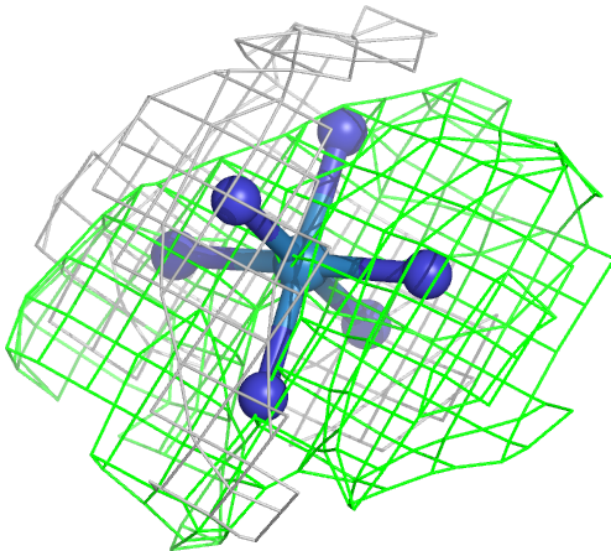


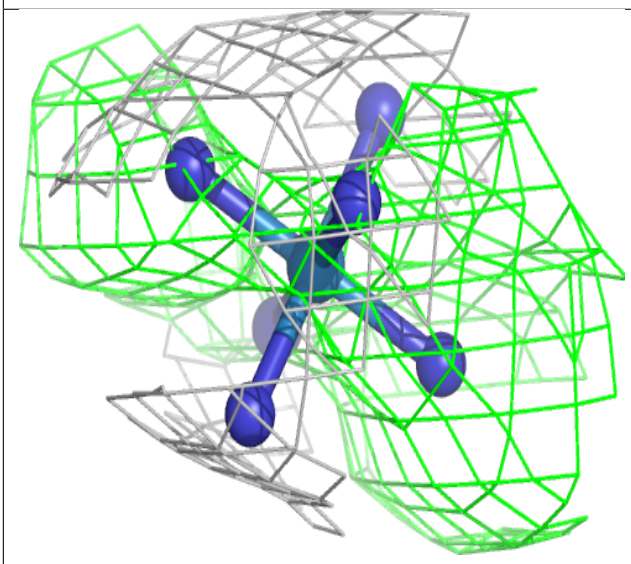


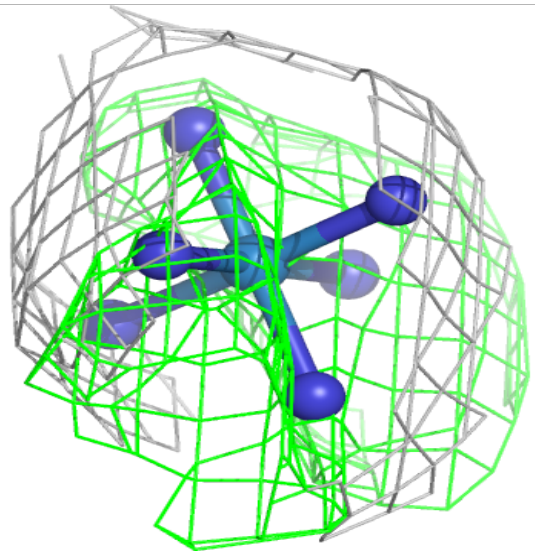


Electron density around OHX B1 3515:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

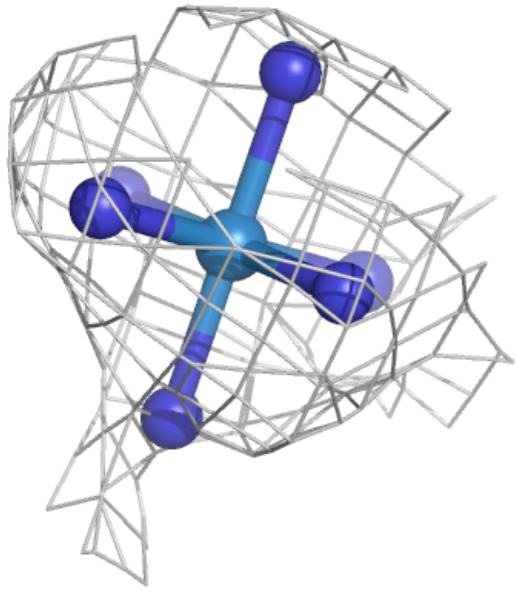


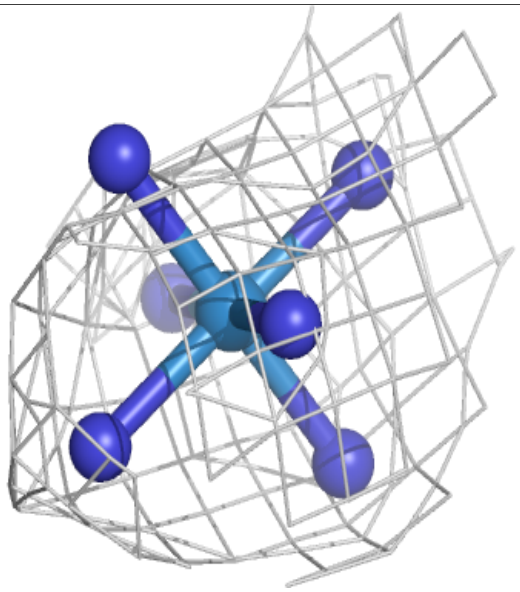


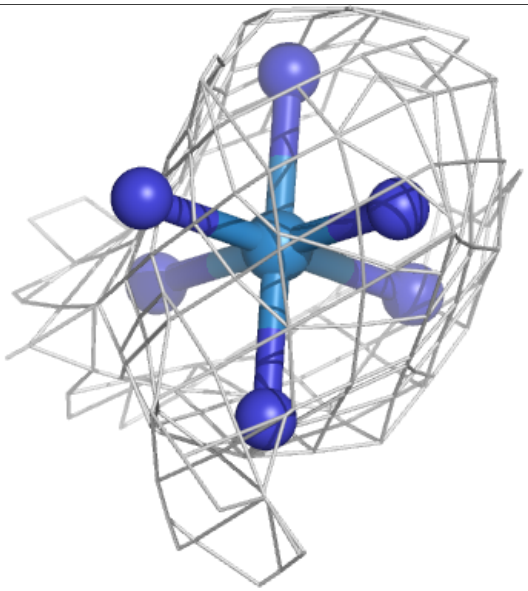


Electron density around OHX C1 1957:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

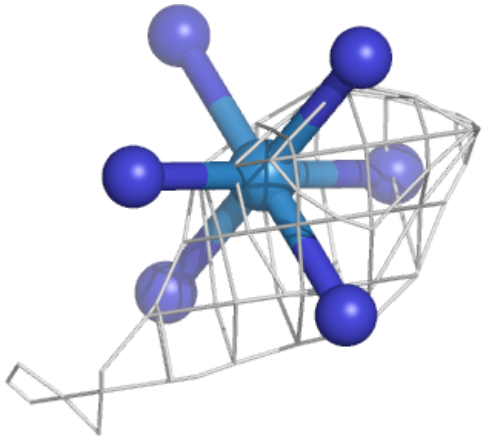


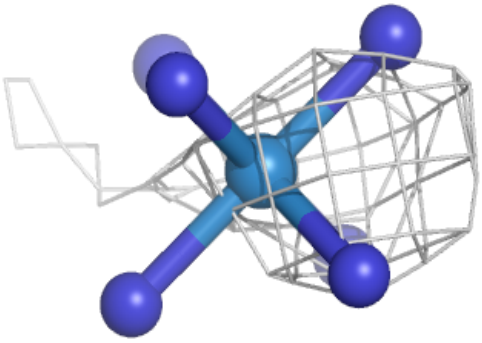


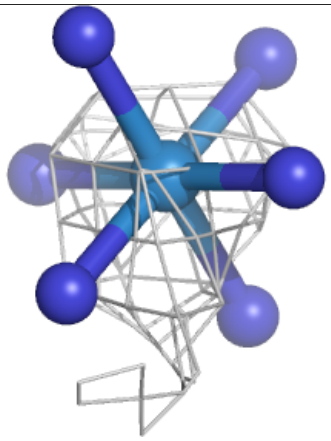


Electron density around OHX A1 1998:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

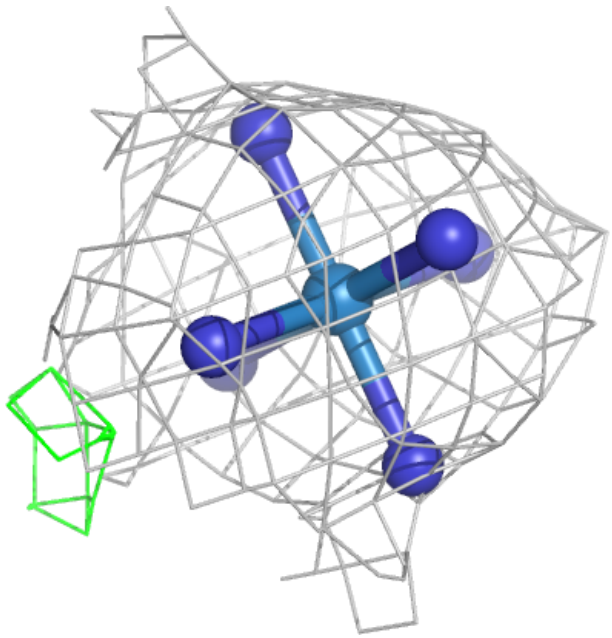


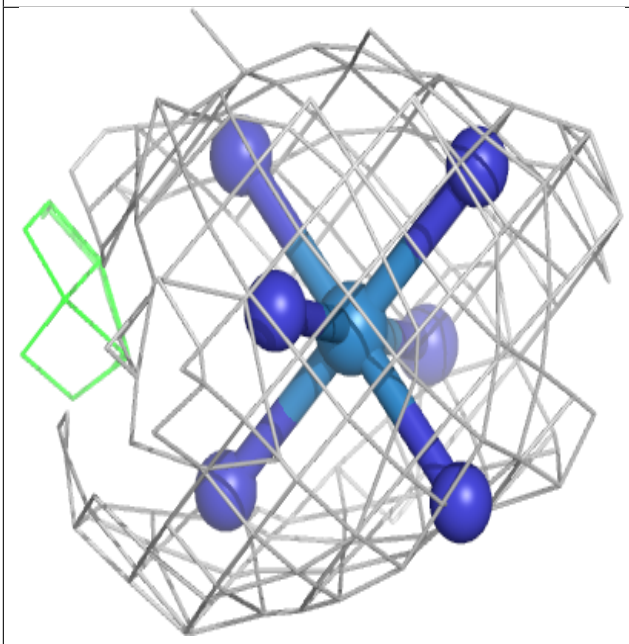


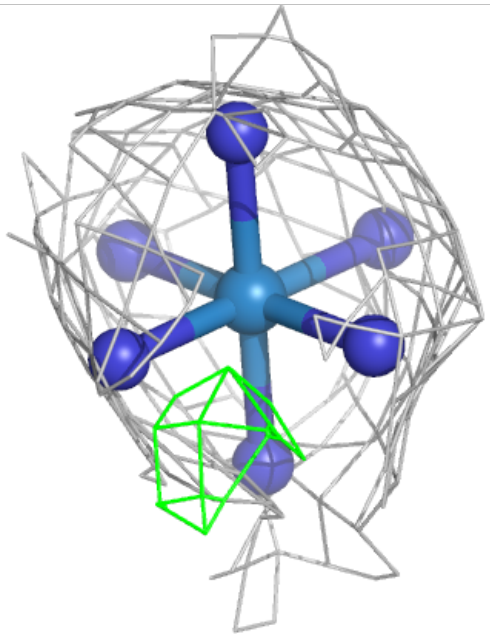


Electron density around OHX B1 3584:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

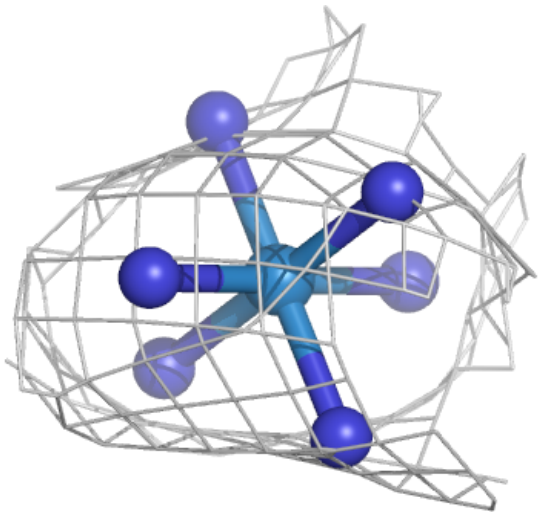


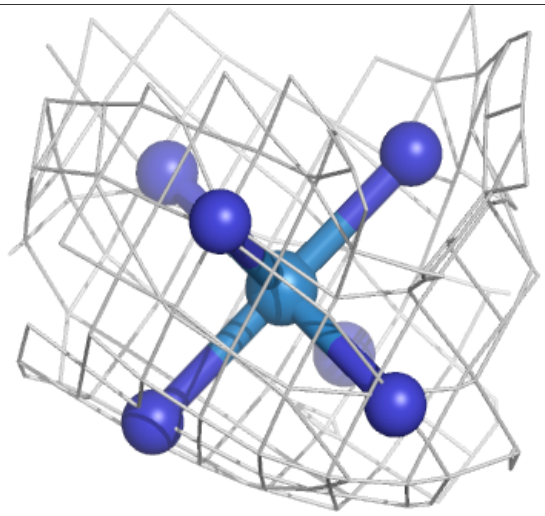


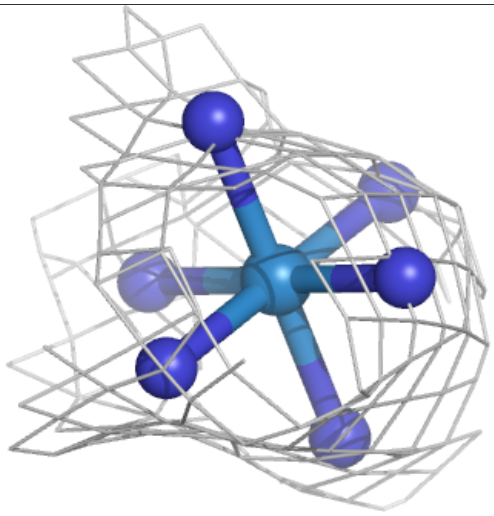


Electron density around OHX C1 1996:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

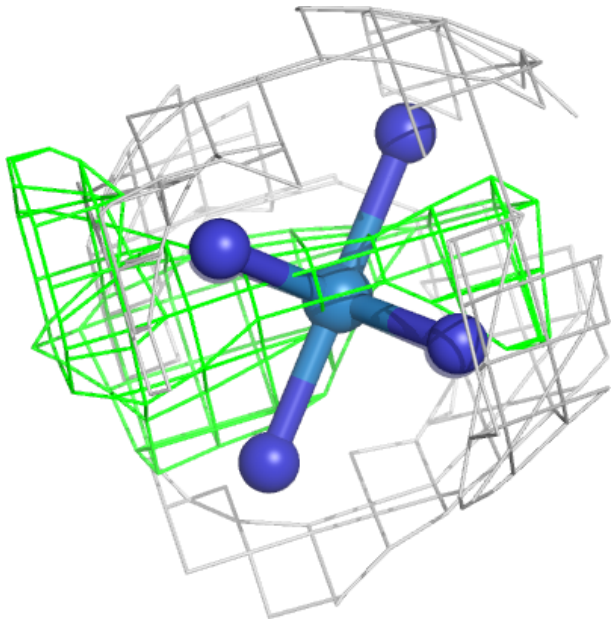


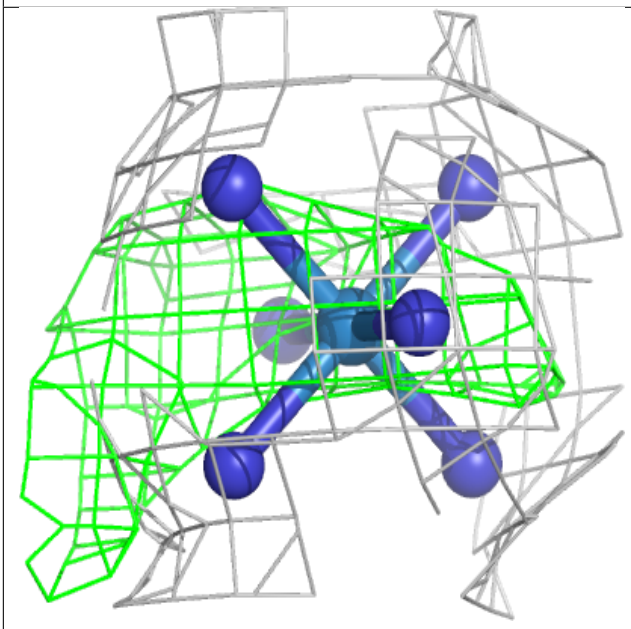


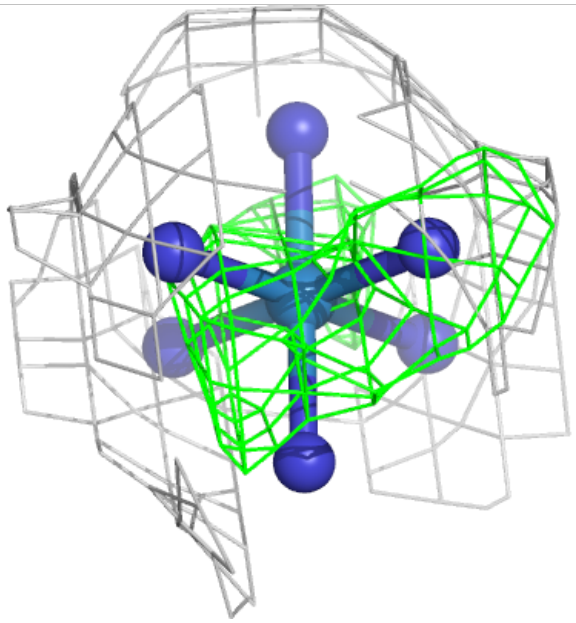


Electron density around OHX A1 1988:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

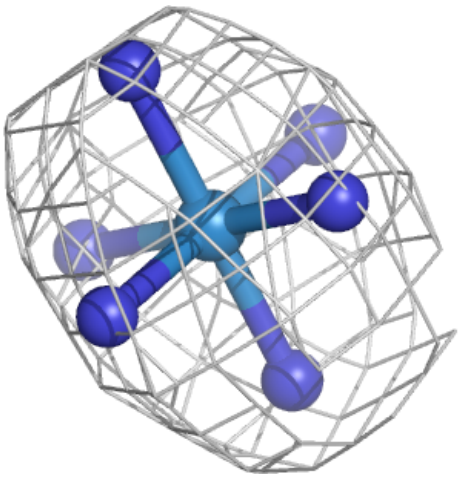


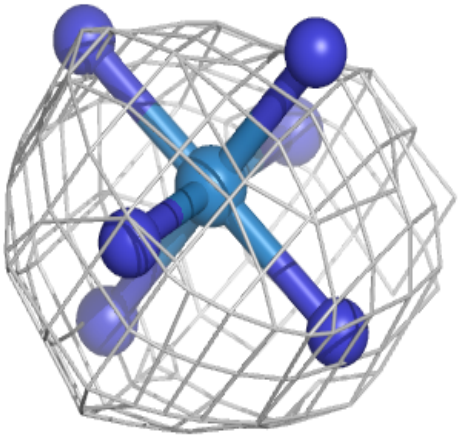


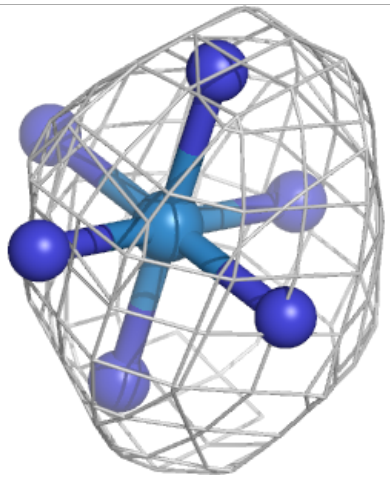


Electron density around OHX B1 3602:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

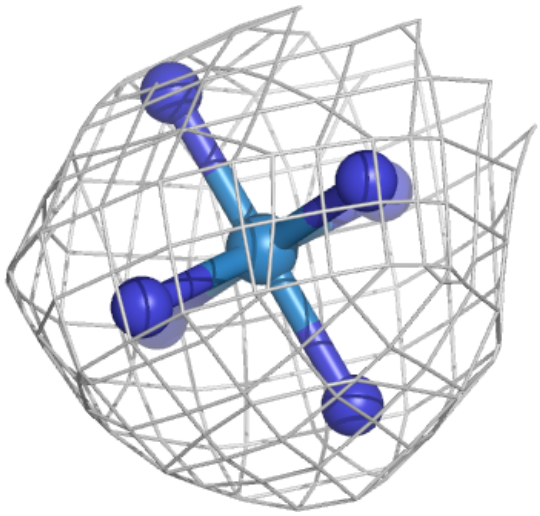


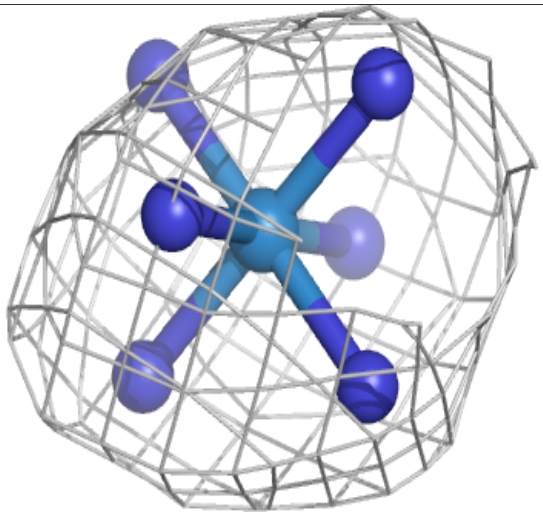


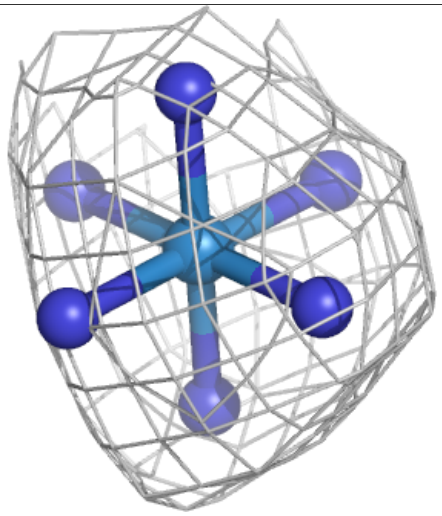


Electron density around OHX D1 3595:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

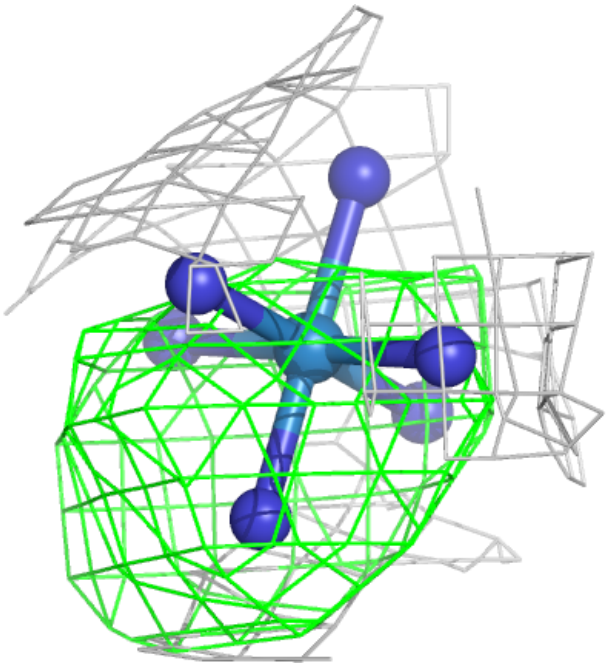


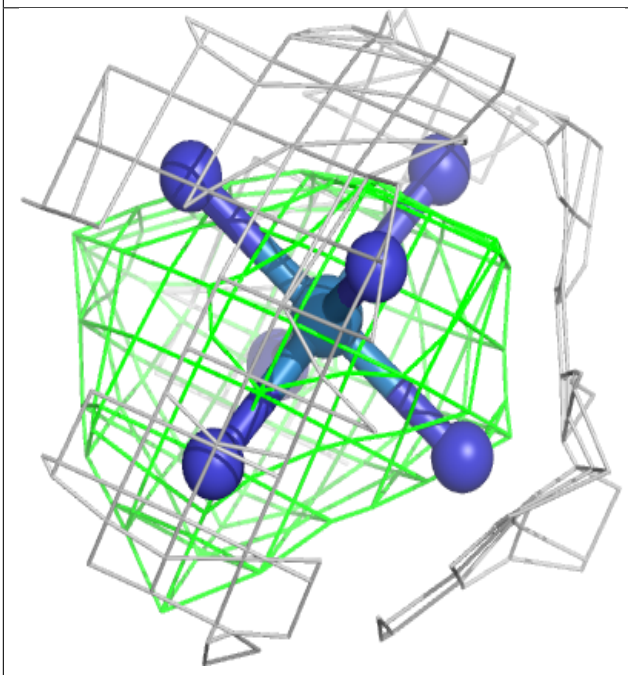


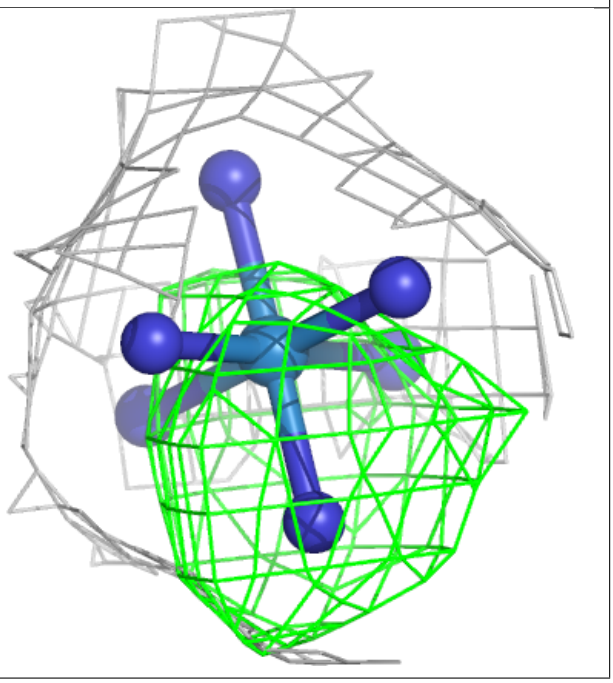


Electron density around OHX B1 3542:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

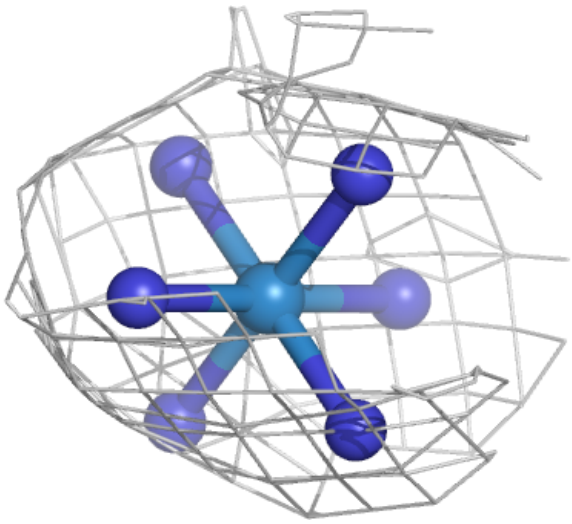


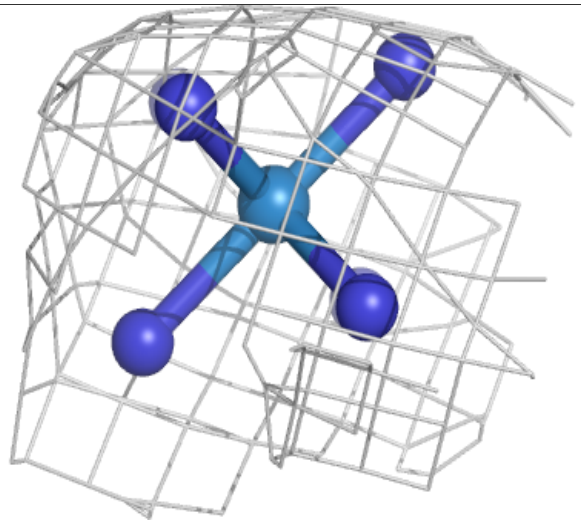


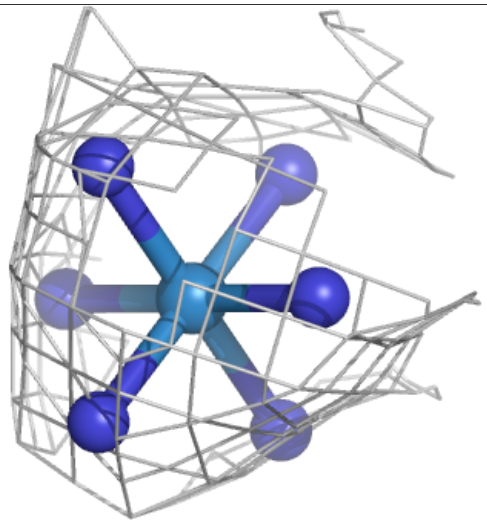


Electron density around OHX C1 1980:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

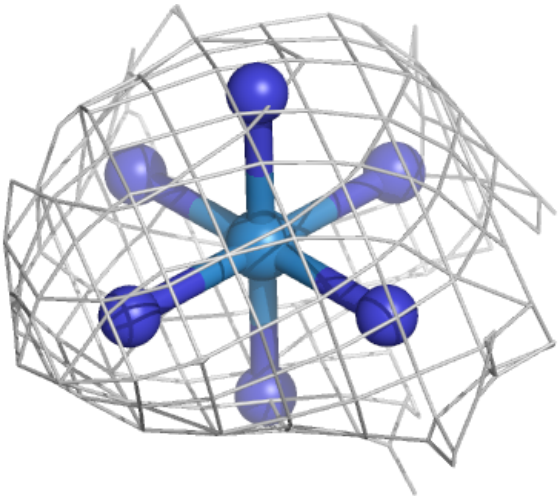


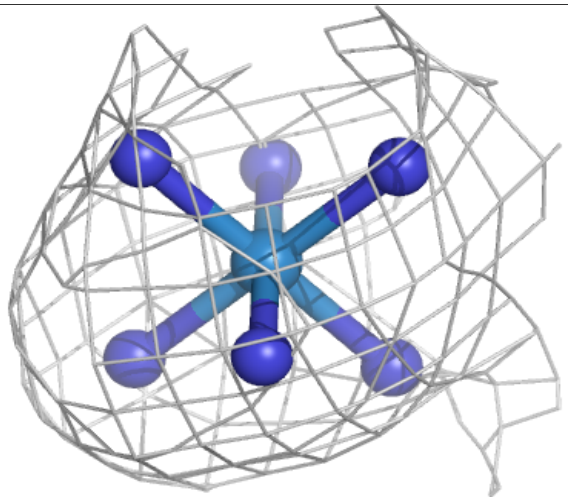


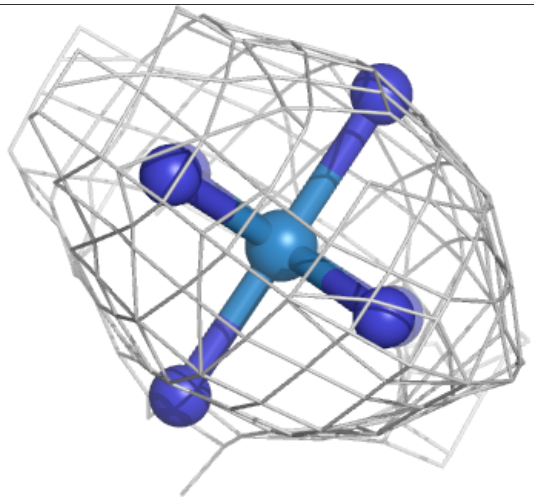


Electron density around OHX B1 3609:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

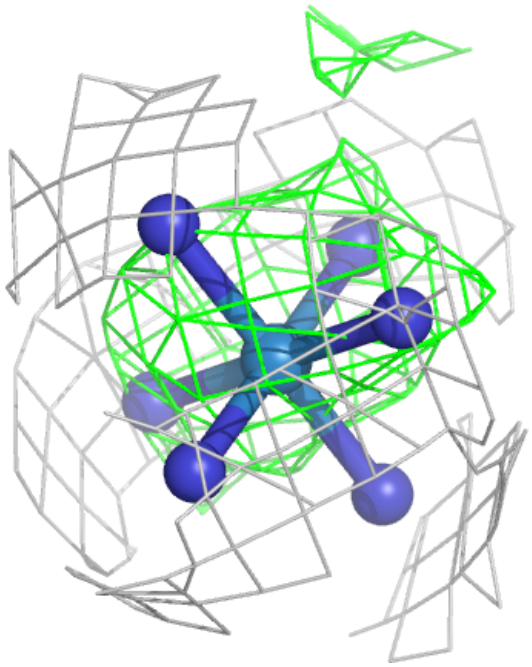


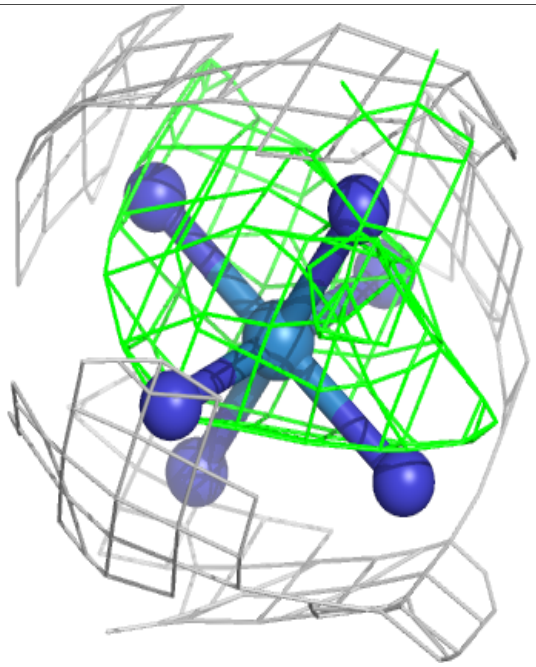


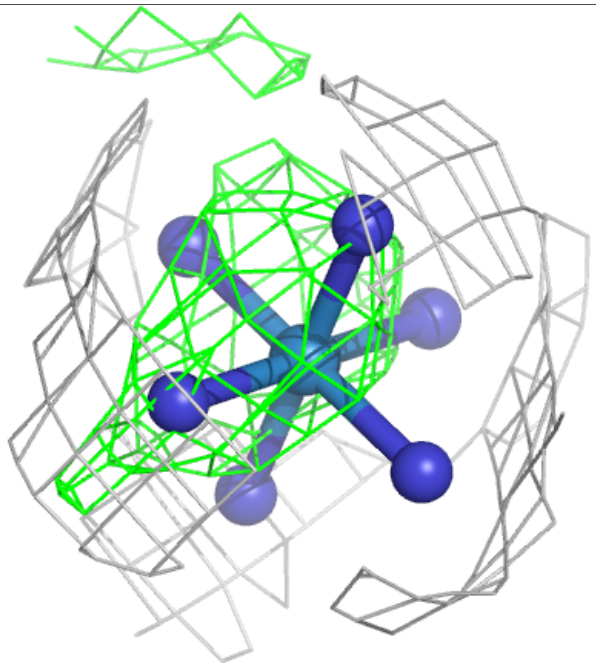


Electron density around OHX D1 3545:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

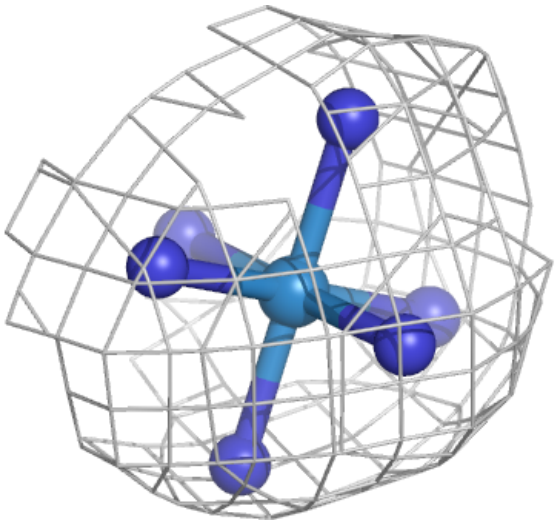


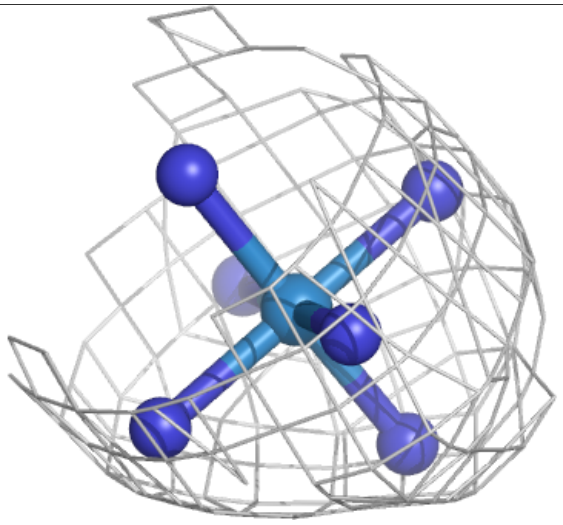


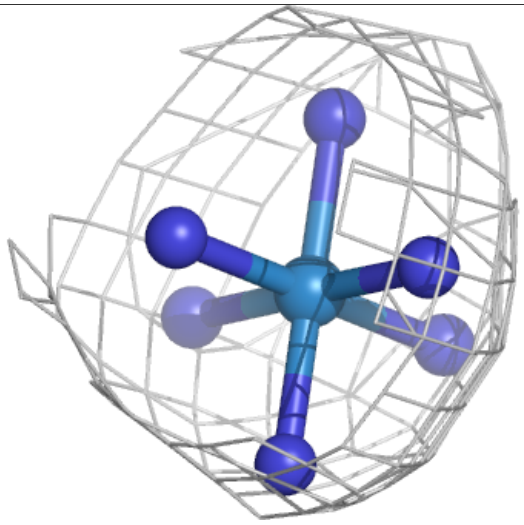


Electron density around OHX C1 1995:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

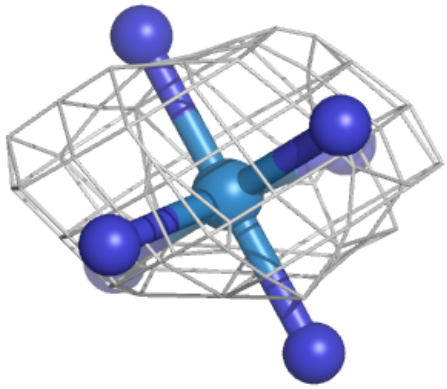


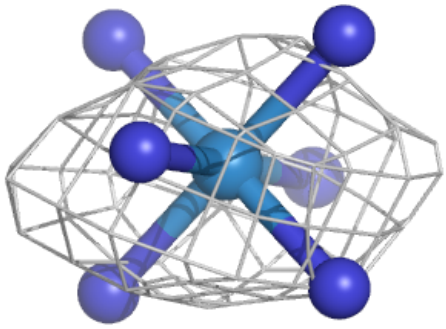


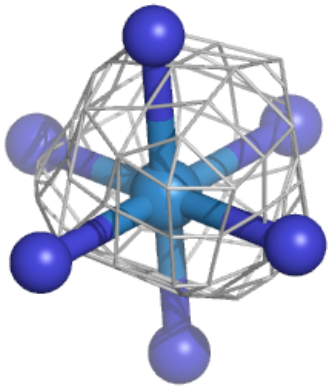


Electron density around OHX B1 3555:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

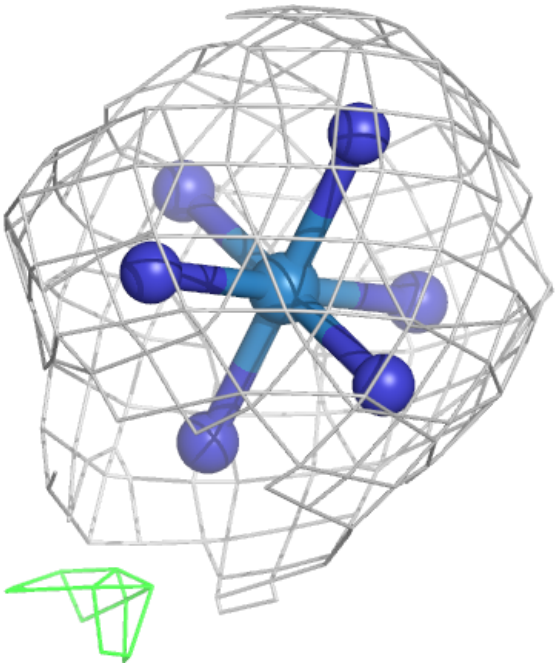


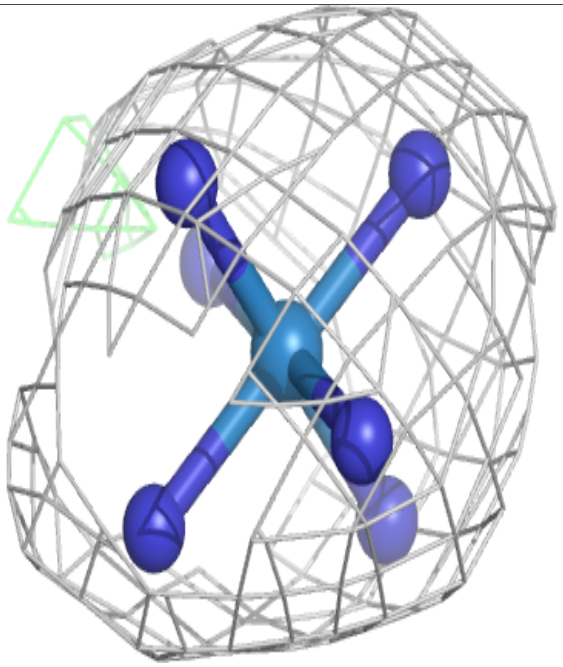


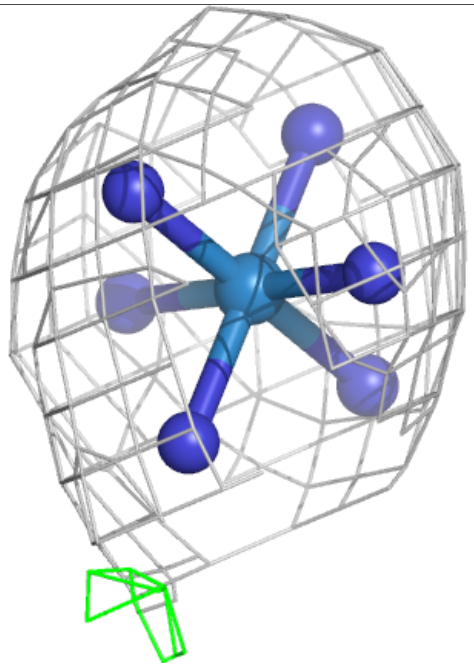


Electron density around OHX B1 3551:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

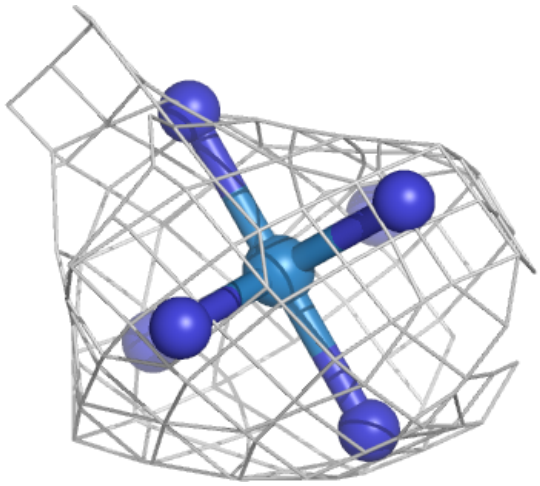


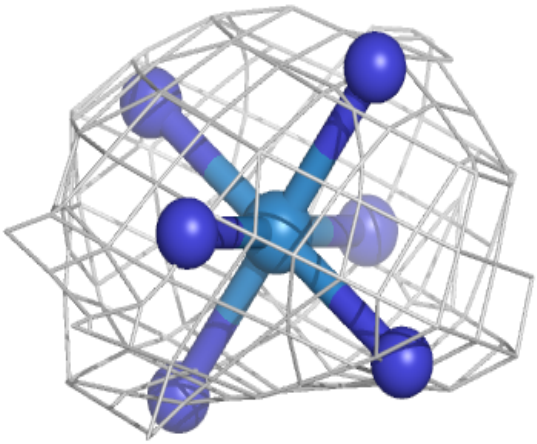


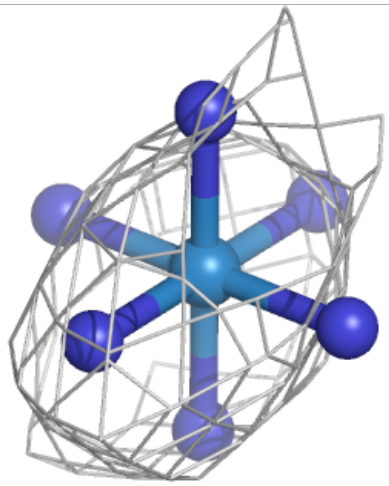


Electron density around OHX D1 3509:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

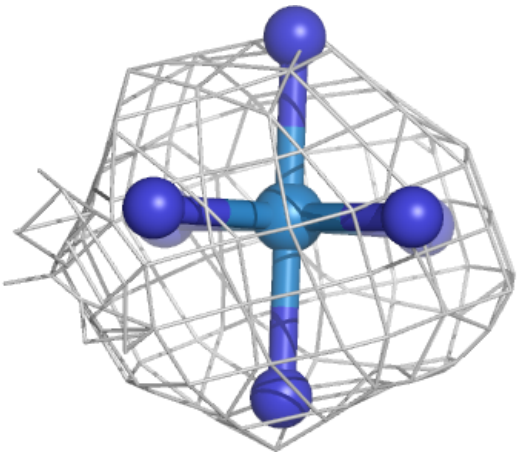


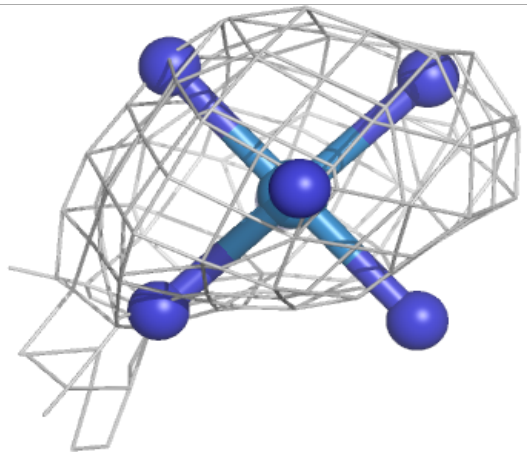


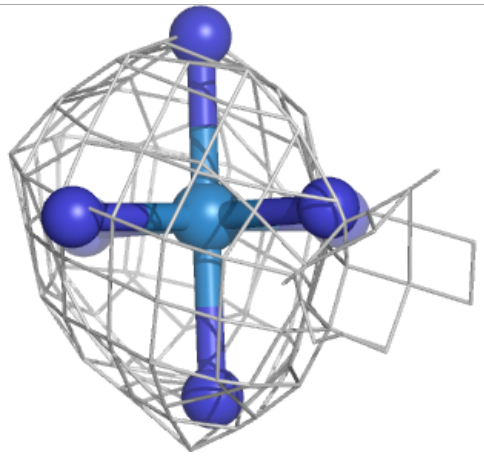


Electron density around OHX D1 3573:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

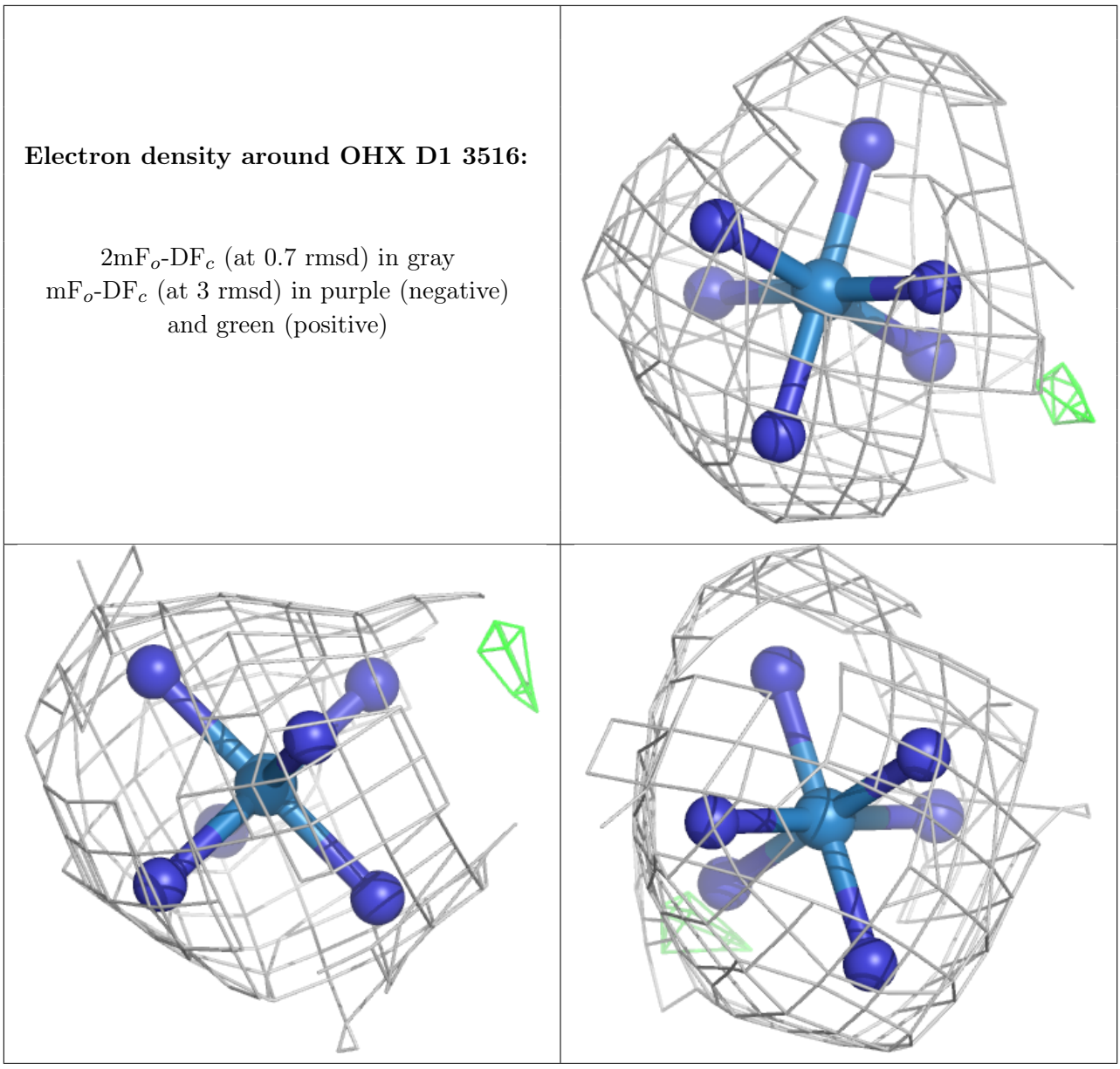






Electron density around OHX D1 3516:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.