Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:12 PM UTC

PDB ID	:	1H1K / pdb_00001h1k
Title	:	THE BLUETONGUE VIRUS (BTV) CORE BINDS DSRNA
Authors	:	Diprose, J.M.; Grimes, J.M.; Sutton, G.C.; Burroughs, J.N.; Meyer, A.; Maan, S.; Mertens, P.P.C.; Stuart, D.I.
Deposited on	:	2002-07-17
Resolution	:	10.00 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 ⓘ symbol.

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

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

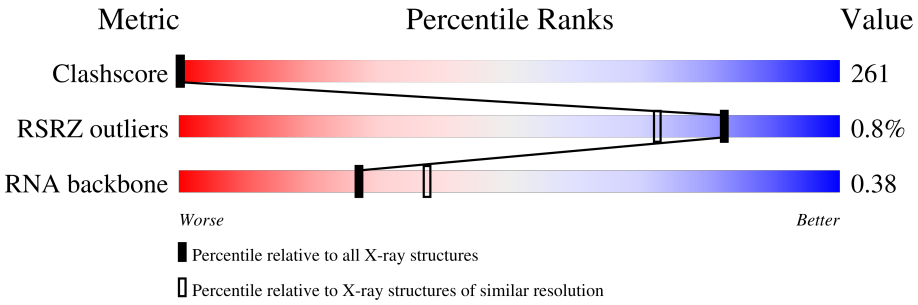
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 10.00 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))
Clashscore	190562	1002 (15.00-4.06)
RSRZ outliers	180081	1162 (11.50-4.00)
RNA backbone	3983	1057 (11.50-3.10)

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	I	412	2% 78% 21%
2	J	276	2% 72% 25%
3	K	265	% 77% 18%
4	L	412	79% 21%
5	M	276	73% 24%
6	N	265	82% 15%

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 40008 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 RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	I	412	9061	4120	2060	2470	411	0	0	0

- Molecule 2 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	J	276	6069	2760	1380	1654	275	0	0	0

- Molecule 3 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	K	265	5827	2650	1325	1588	264	0	0	0

- Molecule 4 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
4	L	412	8237	3708	824	3294	411	0	0	0

- Molecule 5 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
5	M	276	5517	2484	552	2206	275	0	0	0

- Molecule 6 is a RNA chain called RNA.

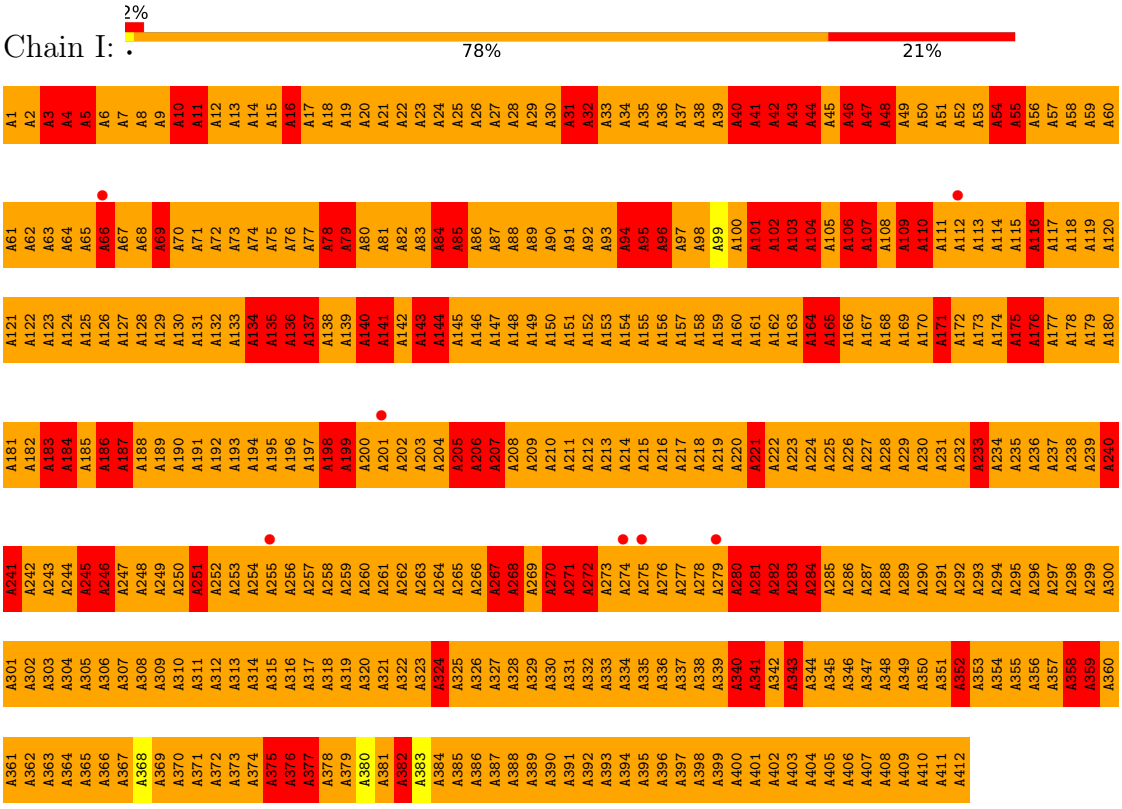
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
6	N	265	5297	2385	530	2118	264	0	0	0

3 Residue-property plots (i)

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

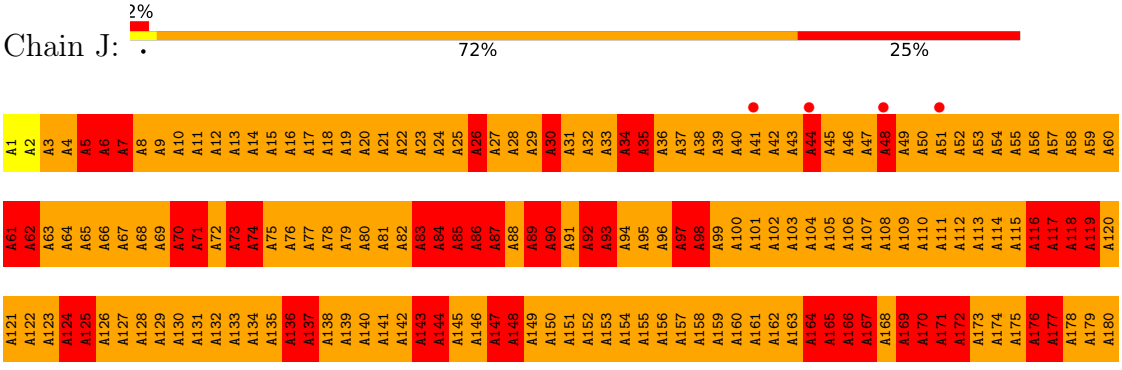
• Molecule 1: RNA

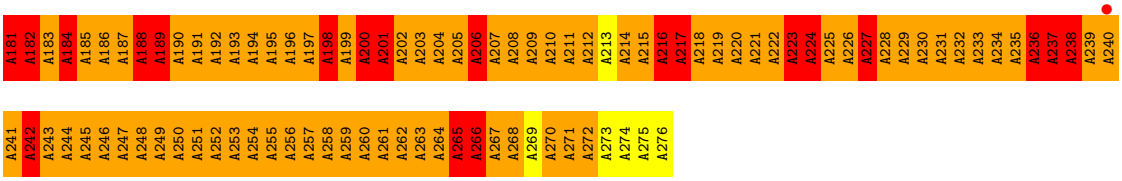
Chain I:



• Molecule 2: RNA

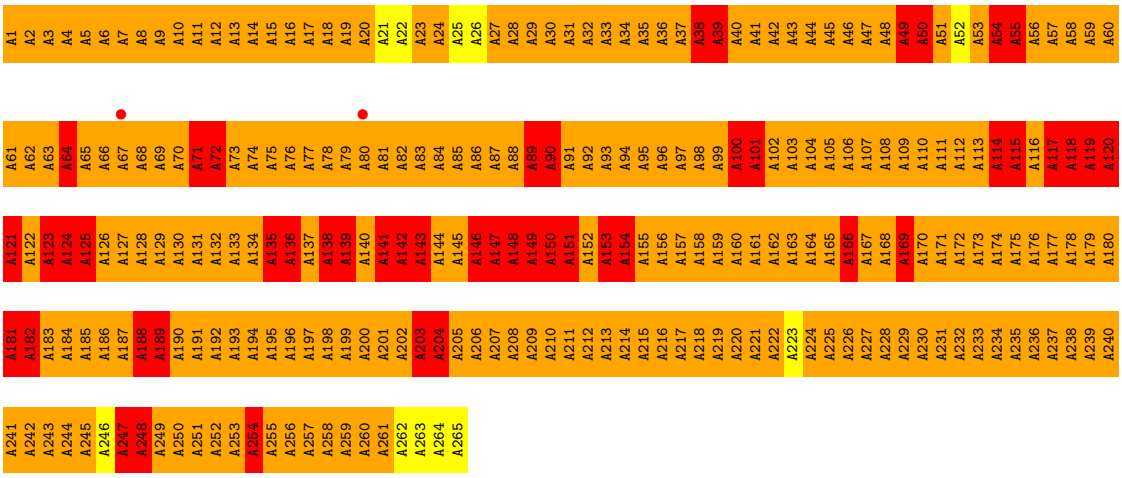
Chain J:





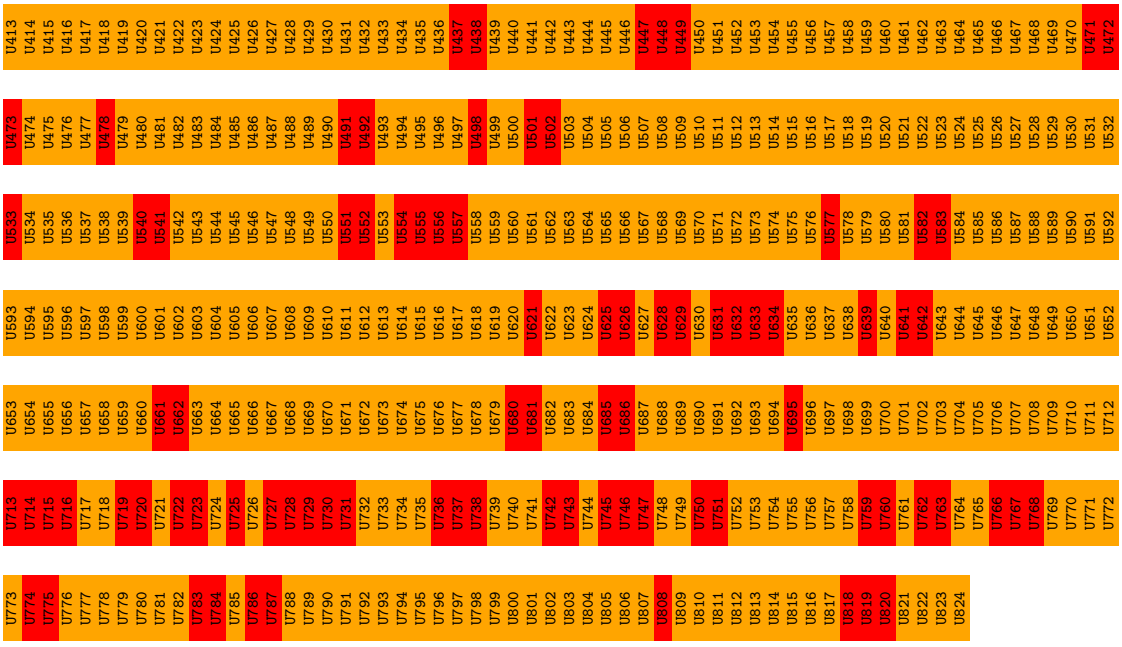
• Molecule 3: RNA

Chain K:



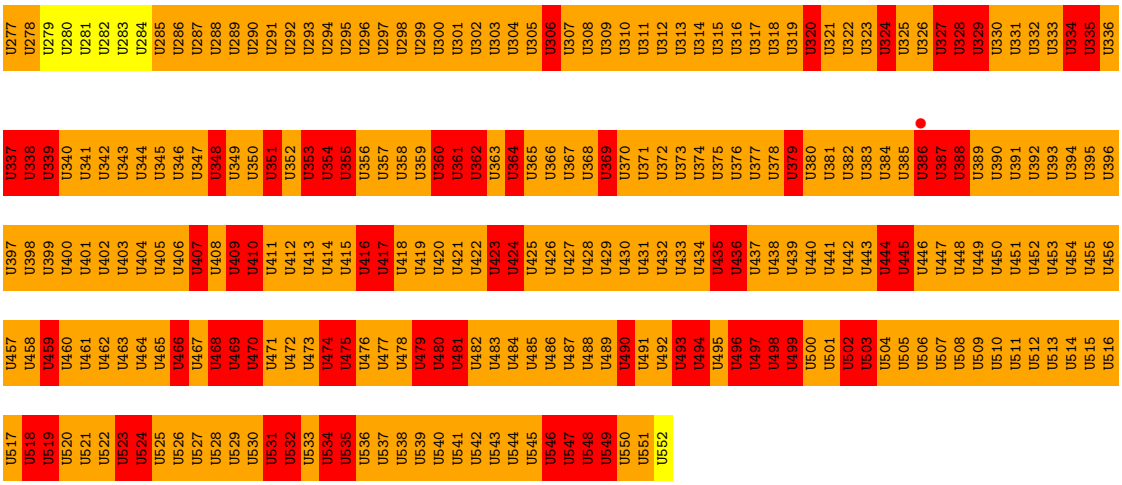
• Molecule 4: RNA

Chain L:



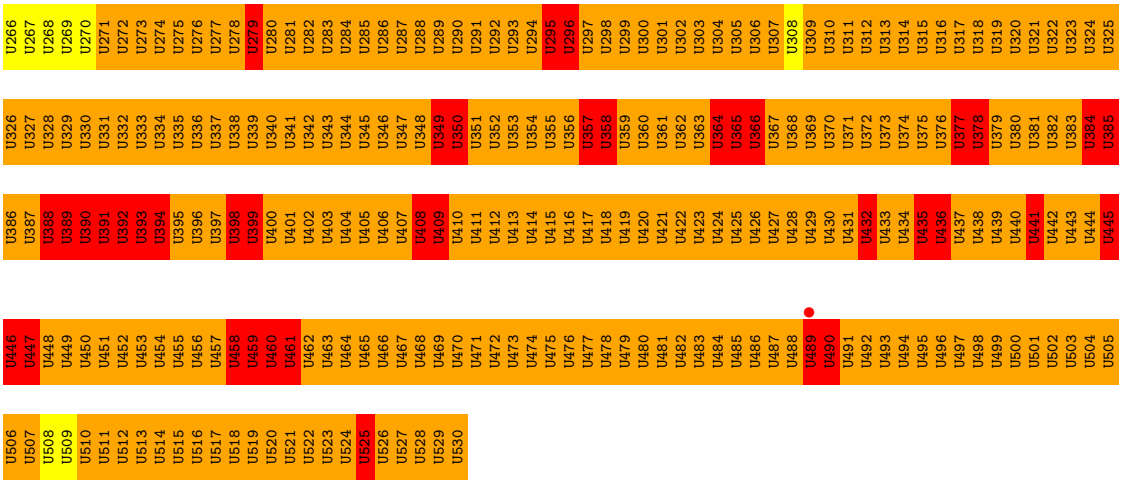
• Molecule 5: RNA

Chain M:



• Molecule 6: RNA

Chain N:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	795.60Å 821.80Å 753.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	(Not available) – 10.00 200.00 – 10.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) ((Not available)-10.00) 73.2 (200.00-10.00)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	4.83 (at 3.49Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	(Not available) , (Not available) (Not available) , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	48.5	Xtriage
Anisotropy	0.015	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.45 , 35.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.38$, $< L^2 > = 0.21$	Xtriage
Estimated twinning fraction	0.078 for k,h,-l	Xtriage
F_o,F_c correlation	0.19	EDS
Total number of atoms	40008	wwPDB-VP
Average B, all atoms (Å^2)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.12% 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)

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	I	3.18	666/10296 (6.5%)	3.41	942/16060 (5.9%)
2	J	3.17	438/6896 (6.4%)	3.27	631/10756 (5.9%)
3	K	3.58	445/6621 (6.7%)	3.12	553/10327 (5.4%)
4	L	3.50	706/9060 (7.8%)	3.53	935/14000 (6.7%)
5	M	3.42	434/6068 (7.2%)	3.63	631/9376 (6.7%)
6	N	3.76	442/5824 (7.6%)	3.18	494/8994 (5.5%)
All	All	3.42	3131/44765 (7.0%)	3.37	4186/69513 (6.0%)

All (3131) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	313	U	O3'-P	38.87	2.19	1.61
3	K	12	A	O3'-P	38.44	2.18	1.61
1	I	149	A	O3'-P	37.84	2.17	1.61
3	K	11	A	O3'-P	37.70	2.17	1.61
3	K	75	A	O3'-P	37.56	2.17	1.61
4	L	679	U	O3'-P	37.34	2.17	1.61
6	N	524	U	O3'-P	36.13	2.15	1.61
5	M	312	U	O3'-P	35.83	2.14	1.61
6	N	510	U	O3'-P	35.51	2.14	1.61
2	J	242	A	O3'-P	35.37	2.14	1.61
5	M	548	U	O3'-P	33.98	2.12	1.61
5	M	311	U	O3'-P	33.87	2.12	1.61
6	N	519	U	O3'-P	33.34	2.11	1.61
3	K	252	A	O3'-P	33.03	2.10	1.61
3	K	242	A	O3'-P	32.94	2.10	1.61
4	L	678	U	O3'-P	32.92	2.10	1.61
6	N	279	U	O3'-P	32.55	2.10	1.61
3	K	74	A	O3'-P	32.24	2.09	1.61
1	I	79	A	O3'-P	-32.07	1.13	1.61
6	N	516	U	O3'-P	31.95	2.09	1.61
1	I	384	A	O3'-P	31.82	2.08	1.61
3	K	259	A	O3'-P	31.66	2.08	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	322	U	O3'-P	30.52	2.06	1.61
6	N	520	U	O3'-P	29.78	2.05	1.61
3	K	241	A	O3'-P	29.66	2.05	1.61
6	N	299	U	O3'-P	29.59	2.05	1.61
2	J	3	A	O3'-P	29.50	2.05	1.61
3	K	179	A	O3'-P	29.39	2.05	1.61
6	N	484	U	O3'-P	29.32	2.05	1.61
6	N	455	U	O3'-P	28.95	2.04	1.61
4	L	446	U	O3'-P	28.88	2.04	1.61
1	I	146	A	O3'-P	28.77	2.04	1.61
4	L	440	U	O3'-P	28.64	2.04	1.61
3	K	184	A	O3'-P	28.41	2.03	1.61
3	K	45	A	O3'-P	28.32	2.03	1.61
6	N	341	U	O3'-P	28.27	2.03	1.61
6	N	289	U	O3'-P	28.24	2.03	1.61
1	I	40	A	O3'-P	28.22	2.03	1.61
4	L	439	U	O3'-P	28.17	2.03	1.61
6	N	518	U	O3'-P	28.17	2.03	1.61
5	M	314	U	O3'-P	28.02	2.03	1.61
3	K	33	A	O3'-P	28.00	2.03	1.61
4	L	451	U	O3'-P	27.95	2.03	1.61
3	K	251	A	O3'-P	27.47	2.02	1.61
6	N	271	U	O3'-P	27.24	2.02	1.61
2	J	241	A	O3'-P	27.21	2.02	1.61
3	K	63	A	O3'-P	27.16	2.01	1.61
3	K	243	A	O3'-P	27.14	2.01	1.61
3	K	260	A	O3'-P	26.92	2.01	1.61
1	I	145	A	O3'-P	26.90	2.01	1.61
2	J	239	A	O3'-P	26.83	2.01	1.61
5	M	308	U	O3'-P	26.81	2.01	1.61
6	N	325	U	O3'-P	26.60	2.01	1.61
6	N	485	U	O3'-P	26.42	2.00	1.61
3	K	23	A	O3'-P	26.40	2.00	1.61
6	N	457	U	O3'-P	26.36	2.00	1.61
3	K	16	A	O3'-P	26.31	2.00	1.61
3	K	178	A	O3'-P	26.23	2.00	1.61
3	K	54	A	O3'-P	26.17	2.00	1.61
3	K	46	A	O3'-P	25.99	2.00	1.61
4	L	676	U	O3'-P	25.99	2.00	1.61
4	L	536	U	O3'-P	25.98	2.00	1.61
2	J	28	A	O3'-P	-25.73	1.22	1.61
6	N	426	U	O3'-P	-25.42	1.23	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	456	U	O3'-P	-25.19	1.23	1.61
5	M	524	U	O3'-P	-25.09	1.23	1.61
3	K	244	A	O3'-P	25.06	1.98	1.61
3	K	208	A	O3'-P	24.98	1.98	1.61
2	J	271	A	O3'-P	24.98	1.98	1.61
2	J	270	A	O3'-P	24.97	1.98	1.61
3	K	13	A	O3'-P	24.91	1.98	1.61
4	L	598	U	O3'-P	-24.82	1.24	1.61
4	L	677	U	O3'-P	24.78	1.98	1.61
4	L	447	U	O3'-P	24.72	1.98	1.61
4	L	445	U	O3'-P	24.64	1.98	1.61
1	I	226	A	O3'-P	-24.61	1.24	1.61
3	K	14	A	O3'-P	24.60	1.98	1.61
6	N	288	U	O3'-P	24.54	1.98	1.61
1	I	385	A	O3'-P	24.43	1.97	1.61
1	I	355	A	O3'-P	24.40	1.97	1.61
3	K	15	A	O3'-P	24.39	1.97	1.61
3	K	10	A	O3'-P	24.34	1.97	1.61
6	N	387	U	O3'-P	24.33	1.97	1.61
5	M	549	U	O3'-P	24.29	1.97	1.61
6	N	427	U	O3'-P	-24.21	1.24	1.61
3	K	19	A	O3'-P	24.16	1.97	1.61
2	J	168	A	O3'-P	24.04	1.97	1.61
5	M	474	U	O3'-P	23.84	1.97	1.61
6	N	303	U	O3'-P	23.72	1.96	1.61
1	I	143	A	O3'-P	23.70	1.96	1.61
2	J	203	A	O3'-P	-23.66	1.25	1.61
6	N	346	U	O3'-P	23.55	1.96	1.61
5	M	307	U	O3'-P	23.51	1.96	1.61
3	K	103	A	O3'-P	-23.49	1.25	1.61
5	M	494	U	O3'-P	-23.42	1.26	1.61
3	K	104	A	O3'-P	-23.35	1.26	1.61
3	K	225	A	O3'-P	23.32	1.96	1.61
3	K	20	A	O3'-P	23.26	1.96	1.61
6	N	509	U	O3'-P	23.20	1.96	1.61
4	L	442	U	O3'-P	23.05	1.95	1.61
3	K	22	A	O3'-P	23.03	1.95	1.61
4	L	680	U	O3'-P	22.96	1.95	1.61
6	N	497	U	O3'-P	22.95	1.95	1.61
1	I	150	A	O3'-P	22.90	1.95	1.61
6	N	459	U	O3'-P	22.78	1.95	1.61
4	L	675	U	O3'-P	22.72	1.95	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	282	U	O3'-P	22.70	1.95	1.61
2	J	115	A	O3'-P	22.68	1.95	1.61
4	L	469	U	O3'-P	22.66	1.95	1.61
1	I	351	A	O3'-P	22.63	1.95	1.61
4	L	589	U	O3'-P	-22.45	1.27	1.61
6	N	523	U	O3'-P	22.34	1.94	1.61
2	J	274	A	O3'-P	22.26	1.94	1.61
4	L	441	U	O3'-P	22.23	1.94	1.61
6	N	352	U	O3'-P	22.07	1.94	1.61
1	I	344	A	O3'-P	22.06	1.94	1.61
6	N	515	U	O3'-P	21.90	1.94	1.61
1	I	147	A	O3'-P	21.83	1.93	1.61
3	K	227	A	O3'-P	21.80	1.93	1.61
3	K	209	A	O3'-P	21.71	1.93	1.61
1	I	239	A	O3'-P	-21.65	1.28	1.61
1	I	235	A	O3'-P	-21.46	1.28	1.61
6	N	318	U	O3'-P	21.35	1.93	1.61
1	I	95	A	O3'-P	21.32	1.93	1.61
5	M	527	U	O3'-P	-21.29	1.29	1.61
1	I	96	A	O3'-P	-21.29	1.29	1.61
2	J	273	A	O3'-P	21.26	1.93	1.61
6	N	373	U	O3'-P	21.22	1.93	1.61
3	K	226	A	O3'-P	21.20	1.93	1.61
4	L	778	U	O3'-P	-21.19	1.29	1.61
1	I	3	A	O3'-P	21.17	1.93	1.61
3	K	261	A	O3'-P	21.17	1.92	1.61
5	M	287	U	O3'-P	-21.16	1.29	1.61
2	J	240	A	O3'-P	21.13	1.92	1.61
4	L	430	U	O3'-P	21.10	1.92	1.61
2	J	4	A	O3'-P	21.09	1.92	1.61
4	L	448	U	O3'-P	21.08	1.92	1.61
1	I	99	A	O3'-P	21.07	1.92	1.61
1	I	2	A	O3'-P	21.00	1.92	1.61
4	L	819	U	O3'-P	20.86	1.92	1.61
1	I	223	A	O3'-P	-20.80	1.29	1.61
1	I	205	A	O3'-P	20.68	1.92	1.61
6	N	508	U	O3'-P	20.62	1.92	1.61
5	M	340	U	O3'-P	20.61	1.92	1.61
4	L	452	U	O3'-P	20.60	1.92	1.61
3	K	218	A	O3'-P	20.50	1.92	1.61
1	I	289	A	O3'-P	20.47	1.91	1.61
2	J	170	A	O3'-P	20.46	1.91	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	246	A	O3'-P	20.44	1.91	1.61
4	L	767	U	O3'-P	-20.44	1.30	1.61
4	L	756	U	O3'-P	-20.43	1.30	1.61
5	M	503	U	O3'-P	-20.42	1.30	1.61
2	J	196	A	O3'-P	20.36	1.91	1.61
3	K	190	A	O3'-P	20.33	1.91	1.61
4	L	601	U	O3'-P	-20.33	1.30	1.61
2	J	174	A	O3'-P	-20.11	1.30	1.61
4	L	564	U	O3'-P	-19.96	1.31	1.61
6	N	314	U	O3'-P	19.84	1.91	1.61
6	N	351	U	O3'-P	19.74	1.90	1.61
1	I	42	A	O3'-P	-19.69	1.31	1.61
5	M	346	U	O3'-P	-19.68	1.31	1.61
6	N	278	U	O3'-P	19.64	1.90	1.61
2	J	198	A	O3'-P	-19.61	1.31	1.61
2	J	26	A	O3'-P	-19.58	1.31	1.61
5	M	493	U	O3'-P	19.58	1.90	1.61
6	N	460	U	O3'-P	19.58	1.90	1.61
1	I	148	A	O3'-P	19.57	1.90	1.61
1	I	381	A	O3'-P	19.50	1.90	1.61
2	J	65	A	O3'-P	-19.46	1.31	1.61
1	I	220	A	O3'-P	19.44	1.90	1.61
2	J	27	A	O3'-P	-19.44	1.31	1.61
6	N	272	U	O3'-P	19.33	1.90	1.61
1	I	288	A	O3'-P	19.32	1.90	1.61
4	L	740	U	O3'-P	-19.27	1.32	1.61
5	M	468	U	O3'-P	19.24	1.90	1.61
4	L	786	U	O3'-P	19.20	1.90	1.61
2	J	269	A	O3'-P	19.20	1.90	1.61
1	I	380	A	O3'-P	19.17	1.90	1.61
2	J	96	A	O3'-P	-19.17	1.32	1.61
4	L	713	U	O3'-P	19.11	1.89	1.61
1	I	379	A	O3'-P	19.10	1.89	1.61
2	J	71	A	O3'-P	-19.09	1.32	1.61
2	J	272	A	O3'-P	19.02	1.89	1.61
1	I	237	A	O3'-P	-18.96	1.32	1.61
6	N	308	U	O3'-P	18.95	1.89	1.61
4	L	663	U	O3'-P	18.87	1.89	1.61
5	M	386	U	O3'-P	18.87	1.89	1.61
4	L	535	U	O3'-P	18.79	1.89	1.61
2	J	243	A	O3'-P	18.78	1.89	1.61
6	N	487	U	O3'-P	18.76	1.89	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	565	U	O3'-P	-18.74	1.33	1.61
1	I	225	A	O3'-P	-18.73	1.33	1.61
6	N	270	U	O3'-P	18.71	1.89	1.61
5	M	280	U	O3'-P	18.68	1.89	1.61
3	K	76	A	O3'-P	18.63	1.89	1.61
1	I	25	A	O3'-P	-18.53	1.33	1.61
3	K	44	A	O3'-P	18.53	1.89	1.61
1	I	272	A	O3'-P	-18.44	1.33	1.61
5	M	283	U	O3'-P	18.33	1.88	1.61
3	K	196	A	O3'-P	18.28	1.88	1.61
4	L	563	U	O3'-P	-18.22	1.33	1.61
2	J	275	A	O3'-P	18.19	1.88	1.61
1	I	178	A	O3'-P	-18.13	1.33	1.61
5	M	459	U	O3'-P	-18.11	1.33	1.61
1	I	294	A	O3'-P	18.09	1.88	1.61
1	I	262	A	O3'-P	-18.03	1.34	1.61
6	N	429	U	O3'-P	-17.91	1.34	1.61
4	L	755	U	O3'-P	-17.84	1.34	1.61
3	K	155	A	O3'-P	17.81	1.87	1.61
4	L	557	U	O3'-P	-17.71	1.34	1.61
2	J	39	A	O3'-P	-17.68	1.34	1.61
4	L	813	U	O3'-P	-17.68	1.34	1.61
6	N	269	U	O3'-P	17.66	1.87	1.61
4	L	597	U	O3'-P	-17.65	1.34	1.61
5	M	462	U	O3'-P	-17.64	1.34	1.61
4	L	573	U	O3'-P	-17.63	1.34	1.61
2	J	101	A	O3'-P	-17.62	1.34	1.61
1	I	53	A	O3'-P	-17.60	1.34	1.61
4	L	454	U	O3'-P	17.60	1.87	1.61
1	I	227	A	O3'-P	-17.57	1.34	1.61
4	L	822	U	O3'-P	17.56	1.87	1.61
2	J	98	A	O3'-P	-17.45	1.34	1.61
1	I	378	A	O3'-P	17.42	1.87	1.61
4	L	602	U	O3'-P	-17.38	1.35	1.61
1	I	328	A	O3'-P	-17.37	1.35	1.61
6	N	267	U	O3'-P	17.36	1.87	1.61
5	M	279	U	O3'-P	17.33	1.87	1.61
4	L	555	U	O3'-P	-17.31	1.35	1.61
4	L	624	U	O3'-P	17.31	1.87	1.61
6	N	266	U	O3'-P	17.30	1.87	1.61
6	N	304	U	O3'-P	17.28	1.87	1.61
1	I	103	A	O3'-P	17.26	1.87	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	206	A	O3'-P	-17.25	1.35	1.61
4	L	720	U	O3'-P	17.24	1.87	1.61
1	I	179	A	O3'-P	-17.23	1.35	1.61
4	L	757	U	O3'-P	-17.22	1.35	1.61
4	L	576	U	O3'-P	-17.22	1.35	1.61
4	L	443	U	O3'-P	17.18	1.86	1.61
6	N	344	U	O3'-P	17.11	1.86	1.61
3	K	232	A	O3'-P	17.09	1.86	1.61
4	L	725	U	O3'-P	17.05	1.86	1.61
4	L	783	U	O3'-P	17.05	1.86	1.61
3	K	224	A	O3'-P	17.01	1.86	1.61
5	M	281	U	O3'-P	17.01	1.86	1.61
1	I	203	A	O3'-P	-16.97	1.35	1.61
5	M	310	U	O3'-P	16.93	1.86	1.61
6	N	483	U	O3'-P	16.89	1.86	1.61
2	J	116	A	O3'-P	16.87	1.86	1.61
4	L	685	U	O3'-P	16.85	1.86	1.61
6	N	357	U	O3'-P	16.82	1.86	1.61
3	K	50	A	O3'-P	16.80	1.86	1.61
6	N	409	U	O3'-P	-16.79	1.35	1.61
6	N	321	U	O3'-P	16.76	1.86	1.61
4	L	582	U	O3'-P	-16.75	1.36	1.61
6	N	300	U	O3'-P	16.71	1.86	1.61
4	L	645	U	O3'-P	-16.70	1.36	1.61
5	M	278	U	O3'-P	16.67	1.86	1.61
1	I	98	A	O3'-P	16.67	1.86	1.61
3	K	205	A	O3'-P	16.67	1.86	1.61
3	K	258	A	O3'-P	16.67	1.86	1.61
3	K	264	A	O3'-P	16.65	1.86	1.61
4	L	657	U	O3'-P	16.63	1.86	1.61
4	L	634	U	O3'-P	-16.61	1.36	1.61
1	I	356	A	O3'-P	16.58	1.86	1.61
2	J	248	A	O3'-P	-16.55	1.36	1.61
5	M	525	U	O3'-P	-16.55	1.36	1.61
4	L	600	U	O3'-P	-16.53	1.36	1.61
2	J	58	A	O3'-P	-16.51	1.36	1.61
4	L	716	U	O3'-P	-16.50	1.36	1.61
1	I	4	A	O3'-P	16.50	1.85	1.61
4	L	712	U	O3'-P	16.49	1.85	1.61
2	J	162	A	O3'-P	16.49	1.85	1.61
4	L	799	U	O3'-P	-16.46	1.36	1.61
1	I	303	A	O3'-P	16.46	1.85	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	105	A	O3'-P	-16.46	1.36	1.61
4	L	551	U	O3'-P	16.44	1.85	1.61
4	L	556	U	O3'-P	-16.42	1.36	1.61
1	I	382	A	O3'-P	16.41	1.85	1.61
4	L	745	U	O3'-P	-16.41	1.36	1.61
3	K	151	A	O3'-P	-16.36	1.36	1.61
2	J	199	A	O3'-P	-16.35	1.36	1.61
3	K	67	A	O3'-P	16.29	1.85	1.61
3	K	51	A	O3'-P	16.27	1.85	1.61
5	M	419	U	O3'-P	16.23	1.85	1.61
2	J	142	A	O3'-P	-16.22	1.36	1.61
2	J	85	A	O3'-P	16.22	1.85	1.61
5	M	531	U	O3'-P	16.19	1.85	1.61
2	J	145	A	O3'-P	16.19	1.85	1.61
4	L	468	U	O3'-P	16.16	1.85	1.61
2	J	2	A	O3'-P	16.14	1.85	1.61
3	K	188	A	O3'-P	16.12	1.85	1.61
1	I	187	A	O3'-P	-16.11	1.36	1.61
6	N	287	U	O3'-P	16.11	1.85	1.61
2	J	175	A	O3'-P	-16.03	1.37	1.61
4	L	620	U	O3'-P	16.02	1.85	1.61
4	L	456	U	O3'-P	15.97	1.85	1.61
6	N	447	U	O3'-P	-15.96	1.37	1.61
4	L	632	U	O3'-P	15.96	1.85	1.61
5	M	390	U	O3'-P	15.83	1.84	1.61
5	M	513	U	O3'-P	-15.76	1.37	1.61
4	L	751	U	O3'-P	-15.75	1.37	1.61
1	I	74	A	O3'-P	-15.71	1.37	1.61
5	M	487	U	O3'-P	-15.72	1.37	1.61
3	K	105	A	O3'-P	-15.71	1.37	1.61
5	M	517	U	O3'-P	-15.69	1.37	1.61
1	I	18	A	O3'-P	-15.65	1.37	1.61
5	M	551	U	O3'-P	15.64	1.84	1.61
5	M	526	U	O3'-P	-15.64	1.37	1.61
4	L	639	U	O3'-P	-15.63	1.37	1.61
4	L	588	U	O3'-P	-15.62	1.37	1.61
1	I	62	A	O3'-P	-15.62	1.37	1.61
4	L	769	U	O3'-P	-15.61	1.37	1.61
6	N	434	U	O3'-P	-15.59	1.37	1.61
4	L	429	U	O3'-P	15.59	1.84	1.61
5	M	447	U	O3'-P	-15.56	1.37	1.61
2	J	64	A	O3'-P	-15.55	1.37	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	268	U	O3'-P	15.55	1.84	1.61
3	K	94	A	O3'-P	-15.54	1.37	1.61
2	J	244	A	O3'-P	15.54	1.84	1.61
4	L	584	U	O3'-P	-15.49	1.38	1.61
4	L	471	U	O3'-P	15.46	1.84	1.61
5	M	479	U	O3'-P	15.46	1.84	1.61
4	L	739	U	O3'-P	-15.45	1.38	1.61
1	I	185	A	O3'-P	-15.43	1.38	1.61
5	M	298	U	O3'-P	-15.42	1.38	1.61
3	K	128	A	O3'-P	-15.41	1.38	1.61
4	L	733	U	O3'-P	15.38	1.84	1.61
4	L	438	U	O3'-P	15.38	1.84	1.61
4	L	669	U	O3'-P	-15.37	1.38	1.61
6	N	333	U	O3'-P	15.35	1.84	1.61
3	K	9	A	O3'-P	15.29	1.84	1.61
4	L	541	U	O3'-P	-15.29	1.38	1.61
4	L	575	U	O3'-P	-15.29	1.38	1.61
5	M	510	U	O3'-P	-15.27	1.38	1.61
3	K	197	A	O3'-P	15.25	1.84	1.61
5	M	460	U	O3'-P	-15.24	1.38	1.61
6	N	403	U	O3'-P	-15.24	1.38	1.61
6	N	507	U	O3'-P	15.23	1.83	1.61
3	K	231	A	O3'-P	15.23	1.83	1.61
1	I	167	A	O3'-P	15.21	1.83	1.61
3	K	21	A	O3'-P	15.20	1.83	1.61
1	I	138	A	O3'-P	15.18	1.83	1.61
1	I	260	A	O3'-P	-15.18	1.38	1.61
2	J	247	A	O3'-P	-15.15	1.38	1.61
6	N	343	U	O3'-P	15.14	1.83	1.61
4	L	480	U	O3'-P	15.12	1.83	1.61
3	K	180	A	O3'-P	15.11	1.83	1.61
4	L	594	U	O3'-P	-15.08	1.38	1.61
6	N	315	U	O3'-P	15.05	1.83	1.61
1	I	171	A	O3'-P	15.04	1.83	1.61
4	L	730	U	O3'-P	14.99	1.83	1.61
1	I	249	A	O3'-P	-14.95	1.38	1.61
4	L	770	U	O3'-P	-14.94	1.38	1.61
5	M	347	U	O3'-P	-14.93	1.38	1.61
4	L	823	U	O3'-P	14.93	1.83	1.61
3	K	90	A	O3'-P	-14.91	1.38	1.61
1	I	394	A	O3'-P	14.90	1.83	1.61
3	K	150	A	O3'-P	14.88	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	408	A	O3'-P	14.88	1.83	1.61
4	L	768	U	O3'-P	-14.87	1.38	1.61
1	I	248	A	O3'-P	-14.84	1.38	1.61
1	I	374	A	O3'-P	14.83	1.83	1.61
4	L	583	U	O3'-P	-14.82	1.39	1.61
5	M	491	U	O3'-P	-14.81	1.39	1.61
1	I	170	A	O3'-P	14.79	1.83	1.61
6	N	285	U	O3'-P	14.76	1.83	1.61
5	M	321	U	O3'-P	14.75	1.83	1.61
4	L	726	U	O3'-P	14.71	1.83	1.61
1	I	212	A	O3'-P	-14.71	1.39	1.61
2	J	265	A	O3'-P	-14.66	1.39	1.61
1	I	111	A	O3'-P	14.64	1.83	1.61
2	J	1	A	O3'-P	14.64	1.83	1.61
1	I	61	A	O3'-P	-14.61	1.39	1.61
1	I	69	A	O3'-P	-14.60	1.39	1.61
1	I	390	A	O3'-P	14.60	1.83	1.61
6	N	458	U	O3'-P	14.60	1.83	1.61
5	M	349	U	O3'-P	-14.52	1.39	1.61
2	J	163	A	O3'-P	14.49	1.82	1.61
1	I	158	A	O3'-P	-14.49	1.39	1.61
4	L	692	U	O3'-P	-14.49	1.39	1.61
6	N	391	U	O3'-P	14.48	1.82	1.61
6	N	302	U	O3'-P	14.46	1.82	1.61
6	N	454	U	O3'-P	14.44	1.82	1.61
4	L	774	U	O3'-P	14.44	1.82	1.61
4	L	818	U	O3'-P	14.43	1.82	1.61
6	N	528	U	O3'-P	14.43	1.82	1.61
3	K	219	A	O3'-P	14.40	1.82	1.61
4	L	707	U	O3'-P	14.40	1.82	1.61
4	L	723	U	O3'-P	14.40	1.82	1.61
1	I	275	A	O3'-P	-14.39	1.39	1.61
4	L	428	U	O3'-P	14.37	1.82	1.61
4	L	592	U	O3'-P	-14.36	1.39	1.61
6	N	479	U	O3'-P	14.34	1.82	1.61
3	K	47	A	O3'-P	14.34	1.82	1.61
4	L	773	U	O3'-P	14.33	1.82	1.61
1	I	1	A	O3'-P	14.33	1.82	1.61
6	N	453	U	O3'-P	14.30	1.82	1.61
5	M	504	U	O3'-P	-14.29	1.39	1.61
1	I	395	A	O3'-P	14.28	1.82	1.61
6	N	482	U	O3'-P	-14.27	1.39	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	373	A	O3'-P	14.27	1.82	1.61
1	I	75	A	O3'-P	-14.24	1.39	1.61
4	L	580	U	O3'-P	-14.21	1.39	1.61
4	L	431	U	O3'-P	14.20	1.82	1.61
6	N	437	U	O3'-P	-14.19	1.39	1.61
6	N	342	U	O3'-P	14.19	1.82	1.61
2	J	144	A	O3'-P	-14.17	1.39	1.61
2	J	93	A	O3'-P	-14.16	1.40	1.61
4	L	572	U	O3'-P	-14.16	1.40	1.61
3	K	24	A	O3'-P	14.16	1.82	1.61
5	M	547	U	O3'-P	14.09	1.82	1.61
1	I	84	A	O3'-P	14.09	1.82	1.61
2	J	266	A	O3'-P	-14.09	1.40	1.61
2	J	32	A	O3'-P	-14.08	1.40	1.61
5	M	455	U	O3'-P	-14.06	1.40	1.61
3	K	228	A	O3'-P	14.06	1.82	1.61
6	N	298	U	O3'-P	14.05	1.82	1.61
5	M	277	U	O3'-P	14.04	1.82	1.61
1	I	54	A	O3'-P	-14.02	1.40	1.61
6	N	414	U	O3'-P	14.01	1.82	1.61
6	N	347	U	O3'-P	13.98	1.82	1.61
6	N	465	U	O3'-P	13.98	1.82	1.61
5	M	417	U	O3'-P	-13.97	1.40	1.61
6	N	486	U	O3'-P	13.95	1.82	1.61
6	N	395	U	O3'-P	-13.95	1.40	1.61
2	J	33	A	O3'-P	-13.94	1.40	1.61
3	K	262	A	O3'-P	13.93	1.82	1.61
5	M	509	U	O3'-P	-13.92	1.40	1.61
2	J	201	A	O3'-P	-13.87	1.40	1.61
1	I	173	A	O3'-P	-13.84	1.40	1.61
1	I	11	A	O3'-P	-13.82	1.40	1.61
6	N	295	U	O3'-P	13.82	1.81	1.61
6	N	521	U	O3'-P	13.82	1.81	1.61
3	K	215	A	O3'-P	13.81	1.81	1.61
6	N	441	U	O3'-P	-13.77	1.40	1.61
1	I	201	A	O3'-P	13.73	1.81	1.61
4	L	628	U	O3'-P	13.71	1.81	1.61
5	M	413	U	O3'-P	13.71	1.81	1.61
6	N	436	U	O3'-P	-13.69	1.40	1.61
2	J	158	A	O3'-P	-13.69	1.40	1.61
1	I	261	A	O3'-P	-13.68	1.40	1.61
5	M	478	U	O3'-P	13.68	1.81	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	724	U	O3'-P	13.66	1.81	1.61
3	K	32	A	O3'-P	13.66	1.81	1.61
5	M	550	U	O3'-P	13.64	1.81	1.61
1	I	397	A	O3'-P	13.63	1.81	1.61
4	L	749	U	O3'-P	-13.63	1.40	1.61
3	K	111	A	O3'-P	-13.62	1.40	1.61
4	L	460	U	O3'-P	-13.61	1.40	1.61
1	I	64	A	O3'-P	-13.59	1.40	1.61
1	I	345	A	O3'-P	13.57	1.81	1.61
6	N	313	U	O3'-P	13.52	1.81	1.61
2	J	191	A	O3'-P	-13.51	1.40	1.61
3	K	212	A	O3'-P	13.51	1.81	1.61
1	I	140	A	O3'-P	13.49	1.81	1.61
1	I	63	A	O3'-P	-13.46	1.41	1.61
1	I	200	A	O3'-P	13.45	1.81	1.61
3	K	160	A	O3'-P	-13.44	1.41	1.61
3	K	91	A	O3'-P	-13.43	1.41	1.61
2	J	212	A	O3'-P	13.43	1.81	1.61
6	N	412	U	O3'-P	-13.42	1.41	1.61
4	L	527	U	O3'-P	13.41	1.81	1.61
2	J	95	A	O3'-P	-13.39	1.41	1.61
4	L	453	U	O3'-P	13.39	1.81	1.61
1	I	409	A	O3'-P	13.38	1.81	1.61
3	K	189	A	O3'-P	13.38	1.81	1.61
6	N	466	U	O3'-P	13.38	1.81	1.61
4	L	805	U	O3'-P	-13.37	1.41	1.61
1	I	97	A	O3'-P	-13.36	1.41	1.61
2	J	107	A	O3'-P	-13.36	1.41	1.61
5	M	288	U	O3'-P	-13.35	1.41	1.61
4	L	612	U	O3'-P	-13.30	1.41	1.61
3	K	137	A	O3'-P	-13.29	1.41	1.61
4	L	433	U	O3'-P	13.29	1.81	1.61
1	I	190	A	O3'-P	-13.28	1.41	1.61
5	M	519	U	O3'-P	-13.26	1.41	1.61
4	L	455	U	O3'-P	13.25	1.81	1.61
5	M	371	U	O3'-P	-13.25	1.41	1.61
5	M	429	U	O3'-P	-13.24	1.41	1.61
6	N	424	U	O3'-P	-13.23	1.41	1.61
6	N	286	U	O3'-P	13.18	1.80	1.61
1	I	204	A	O3'-P	13.18	1.80	1.61
3	K	82	A	O3'-P	-13.14	1.41	1.61
3	K	101	A	O3'-P	-13.13	1.41	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	792	U	O3'-P	-13.11	1.41	1.61
4	L	444	U	O3'-P	13.10	1.80	1.61
3	K	53	A	O3'-P	13.10	1.80	1.61
4	L	763	U	O3'-P	-13.10	1.41	1.61
6	N	511	U	O3'-P	13.09	1.80	1.61
1	I	24	A	O3'-P	-13.06	1.41	1.61
2	J	90	A	O3'-P	-13.05	1.41	1.61
2	J	253	A	O3'-P	-13.05	1.41	1.61
2	J	100	A	O3'-P	-13.03	1.41	1.61
1	I	349	A	O3'-P	13.01	1.80	1.61
3	K	25	A	O3'-P	12.99	1.80	1.61
4	L	427	U	O3'-P	12.98	1.80	1.61
4	L	531	U	O3'-P	12.98	1.80	1.61
1	I	12	A	O3'-P	-12.97	1.41	1.61
1	I	224	A	O3'-P	-12.95	1.41	1.61
5	M	353	U	O3'-P	-12.93	1.41	1.61
4	L	771	U	O3'-P	-12.91	1.41	1.61
1	I	240	A	O3'-P	-12.91	1.41	1.61
1	I	236	A	O3'-P	-12.87	1.41	1.61
2	J	36	A	O3'-P	-12.86	1.41	1.61
1	I	47	A	O3'-P	-12.86	1.41	1.61
2	J	236	A	O3'-P	12.85	1.80	1.61
6	N	452	U	O3'-P	12.84	1.80	1.61
5	M	520	U	O3'-P	-12.82	1.42	1.61
1	I	109	A	O3'-P	12.80	1.80	1.61
1	I	383	A	O3'-P	12.78	1.80	1.61
3	K	217	A	O3'-P	12.75	1.80	1.61
6	N	499	U	O3'-P	12.74	1.80	1.61
6	N	529	U	O3'-P	12.73	1.80	1.61
3	K	233	A	O3'-P	12.73	1.80	1.61
3	K	263	A	O3'-P	12.71	1.80	1.61
2	J	106	A	O3'-P	-12.70	1.42	1.61
5	M	463	U	O3'-P	-12.67	1.42	1.61
5	M	329	U	O3'-P	12.65	1.80	1.61
4	L	800	U	O3'-P	-12.64	1.42	1.61
4	L	650	U	O3'-P	-12.64	1.42	1.61
3	K	131	A	O3'-P	-12.63	1.42	1.61
5	M	305	U	O3'-P	-12.63	1.42	1.61
1	I	251	A	O3'-P	-12.62	1.42	1.61
6	N	275	U	O3'-P	12.60	1.80	1.61
4	L	579	U	O3'-P	-12.60	1.42	1.61
6	N	472	U	O3'-P	-12.58	1.42	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	302	A	O3'-P	12.56	1.79	1.61
4	L	693	U	O3'-P	-12.55	1.42	1.61
5	M	395	U	O3'-P	-12.54	1.42	1.61
4	L	462	U	O3'-P	12.52	1.79	1.61
1	I	283	A	C3'-O3'	-12.51	1.24	1.43
6	N	389	U	O3'-P	12.50	1.79	1.61
4	L	554	U	C3'-O3'	-12.50	1.24	1.43
4	L	649	U	O3'-P	-12.47	1.42	1.61
5	M	412	U	O3'-P	12.46	1.79	1.61
1	I	166	A	O3'-P	12.46	1.79	1.61
1	I	104	A	O3'-P	12.40	1.79	1.61
4	L	635	U	O3'-P	-12.38	1.42	1.61
1	I	271	A	C3'-O3'	-12.36	1.24	1.43
1	I	222	A	O3'-P	-12.35	1.42	1.61
3	K	171	A	O3'-P	12.35	1.79	1.61
2	J	40	A	O3'-P	-12.33	1.42	1.61
1	I	134	A	C3'-O3'	-12.32	1.24	1.43
6	N	353	U	O3'-P	12.32	1.79	1.61
1	I	80	A	O3'-P	-12.32	1.42	1.61
4	L	481	U	O3'-P	12.29	1.79	1.61
3	K	203	A	C3'-O3'	-12.27	1.24	1.43
4	L	585	U	O3'-P	-12.26	1.42	1.61
5	M	345	U	O3'-P	-12.25	1.42	1.61
6	N	522	U	O3'-P	12.25	1.79	1.61
6	N	307	U	O3'-P	12.23	1.79	1.61
5	M	409	U	O3'-P	-12.23	1.42	1.61
4	L	599	U	O3'-P	-12.22	1.42	1.61
2	J	92	A	C3'-O3'	-12.20	1.24	1.43
5	M	461	U	O3'-P	-12.19	1.42	1.61
6	N	345	U	O3'-P	12.19	1.79	1.61
4	L	722	U	C3'-O3'	-12.18	1.24	1.43
3	K	127	A	O3'-P	-12.17	1.42	1.61
3	K	146	A	O3'-P	12.16	1.79	1.61
4	L	523	U	O3'-P	12.16	1.79	1.61
3	K	6	A	O3'-P	12.16	1.79	1.61
5	M	469	U	O3'-P	12.13	1.79	1.61
1	I	157	A	O3'-P	-12.12	1.43	1.61
1	I	241	A	O3'-P	-12.10	1.43	1.61
4	L	781	U	O3'-P	-12.10	1.43	1.61
5	M	446	U	O3'-P	-12.10	1.43	1.61
5	M	448	U	O3'-P	-12.10	1.43	1.61
1	I	391	A	O3'-P	12.10	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	22	A	O3'-P	-12.10	1.43	1.61
1	I	65	A	O3'-P	12.09	1.79	1.61
3	K	163	A	O3'-P	-12.09	1.43	1.61
1	I	267	A	C3'-O3'	-12.09	1.25	1.43
1	I	66	A	O3'-P	12.07	1.79	1.61
3	K	29	A	O3'-P	12.05	1.79	1.61
2	J	185	A	O3'-P	-12.04	1.43	1.61
1	I	350	A	C3'-O3'	-12.04	1.24	1.42
1	I	318	A	O3'-P	-12.04	1.43	1.61
2	J	125	A	O3'-P	-12.01	1.43	1.61
6	N	290	U	O3'-P	12.01	1.79	1.61
6	N	445	U	O3'-P	11.99	1.79	1.61
4	L	472	U	O3'-P	11.99	1.79	1.61
5	M	364	U	O3'-P	-11.99	1.43	1.61
1	I	405	A	C3'-O3'	-11.98	1.24	1.42
1	I	253	A	C3'-O3'	-11.97	1.24	1.42
4	L	752	U	O3'-P	-11.97	1.43	1.61
1	I	52	A	O3'-P	-11.97	1.43	1.61
4	L	465	U	O3'-P	11.97	1.79	1.61
1	I	394	A	C3'-O3'	-11.96	1.24	1.42
5	M	325	U	C3'-O3'	-11.96	1.24	1.42
4	L	746	U	O3'-P	-11.96	1.43	1.61
1	I	361	A	C3'-O3'	-11.94	1.24	1.42
1	I	264	A	C3'-O3'	-11.94	1.24	1.42
5	M	410	U	O3'-P	-11.93	1.43	1.61
3	K	125	A	O3'-P	-11.93	1.43	1.61
5	M	336	U	C3'-O3'	-11.93	1.24	1.42
1	I	286	A	C3'-O3'	-11.92	1.24	1.42
1	I	317	A	C3'-O3'	-11.92	1.24	1.42
4	L	751	U	C3'-O3'	-11.92	1.24	1.42
4	L	609	U	C3'-O3'	-11.91	1.24	1.42
1	I	306	A	C3'-O3'	-11.90	1.24	1.42
4	L	435	U	C3'-O3'	-11.90	1.24	1.42
5	M	356	U	O3'-P	11.90	1.79	1.61
1	I	86	A	O3'-P	-11.89	1.43	1.61
4	L	587	U	C3'-O3'	-11.89	1.24	1.42
6	N	419	U	O3'-P	-11.89	1.43	1.61
6	N	402	U	O3'-P	-11.89	1.43	1.61
1	I	383	A	C3'-O3'	-11.88	1.24	1.42
1	I	372	A	C3'-O3'	-11.88	1.24	1.42
4	L	588	U	C3'-O3'	-11.88	1.24	1.42
1	I	328	A	C3'-O3'	-11.88	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	526	U	O3'-P	11.87	1.78	1.61
4	L	527	U	C3'-O3'	-11.86	1.24	1.42
4	L	543	U	C3'-O3'	-11.86	1.24	1.42
1	I	73	A	O3'-P	-11.85	1.43	1.61
4	L	490	U	C3'-O3'	-11.85	1.24	1.42
1	I	227	A	C3'-O3'	-11.85	1.24	1.42
3	K	208	A	C3'-O3'	-11.85	1.24	1.42
3	K	198	A	C3'-O3'	-11.84	1.24	1.42
4	L	693	U	C3'-O3'	-11.84	1.24	1.42
3	K	230	A	C3'-O3'	-11.84	1.24	1.42
4	L	458	U	C3'-O3'	-11.84	1.24	1.42
4	L	599	U	C3'-O3'	-11.84	1.24	1.42
4	L	714	U	C3'-O3'	-11.83	1.24	1.42
5	M	358	U	C3'-O3'	-11.83	1.24	1.42
4	L	555	U	C3'-O3'	-11.83	1.24	1.42
5	M	292	U	C3'-O3'	-11.83	1.24	1.42
1	I	303	A	C3'-O3'	-11.83	1.24	1.42
4	L	576	U	C3'-O3'	-11.83	1.24	1.42
2	J	142	A	C3'-O3'	-11.83	1.24	1.42
3	K	209	A	C3'-O3'	-11.83	1.24	1.42
4	L	501	U	C3'-O3'	-11.83	1.24	1.42
6	N	388	U	O3'-P	11.83	1.78	1.61
1	I	339	A	C3'-O3'	-11.82	1.24	1.42
1	I	347	A	C3'-O3'	-11.82	1.24	1.42
3	K	186	A	C3'-O3'	-11.82	1.24	1.42
5	M	290	U	C3'-O3'	-11.82	1.24	1.42
4	L	479	U	C3'-O3'	-11.82	1.24	1.42
3	K	252	A	C3'-O3'	-11.82	1.24	1.42
4	L	413	U	C3'-O3'	-11.82	1.24	1.42
5	M	347	U	C3'-O3'	-11.82	1.24	1.42
1	I	358	A	C3'-O3'	-11.82	1.24	1.42
1	I	239	A	C3'-O3'	-11.82	1.24	1.42
4	L	468	U	C3'-O3'	-11.82	1.24	1.42
5	M	380	U	C3'-O3'	-11.82	1.24	1.42
2	J	140	A	C3'-O3'	-11.81	1.24	1.42
5	M	369	U	C3'-O3'	-11.81	1.24	1.42
1	I	242	A	C3'-O3'	-11.81	1.24	1.42
4	L	728	U	O3'-P	11.81	1.78	1.61
1	I	84	A	C3'-O3'	-11.81	1.24	1.42
4	L	593	U	C3'-O3'	-11.81	1.24	1.42
4	L	602	U	C3'-O3'	-11.81	1.24	1.42
5	M	495	U	O3'-P	-11.81	1.43	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	197	A	C3'-O3'	-11.81	1.24	1.42
3	K	264	A	C3'-O3'	-11.81	1.24	1.42
4	L	604	U	C3'-O3'	-11.81	1.24	1.42
5	M	359	U	C3'-O3'	-11.81	1.24	1.42
5	M	414	U	C3'-O3'	-11.81	1.24	1.42
6	N	340	U	O3'-P	11.81	1.78	1.61
4	L	566	U	C3'-O3'	-11.80	1.24	1.42
5	M	301	U	C3'-O3'	-11.80	1.24	1.42
2	J	151	A	C3'-O3'	-11.80	1.24	1.42
2	J	252	A	C3'-O3'	-11.80	1.24	1.42
4	L	565	U	C3'-O3'	-11.80	1.24	1.42
4	L	696	U	C3'-O3'	-11.80	1.24	1.42
4	L	642	U	C3'-O3'	-11.80	1.24	1.42
5	M	403	U	C3'-O3'	-11.80	1.24	1.42
2	J	206	A	C3'-O3'	-11.79	1.24	1.42
5	M	279	U	C3'-O3'	-11.79	1.24	1.42
5	M	392	U	C3'-O3'	-11.79	1.24	1.42
2	J	254	A	O3'-P	-11.79	1.43	1.61
3	K	164	A	C3'-O3'	-11.79	1.24	1.42
4	L	480	U	C3'-O3'	-11.79	1.24	1.42
3	K	263	A	C3'-O3'	-11.79	1.24	1.42
1	I	282	A	C3'-O3'	-11.79	1.24	1.42
2	J	195	A	C3'-O3'	-11.79	1.24	1.42
2	J	241	A	C3'-O3'	-11.79	1.24	1.42
5	M	314	U	C3'-O3'	-11.79	1.24	1.42
1	I	238	A	C3'-O3'	-11.79	1.24	1.42
3	K	241	A	C3'-O3'	-11.78	1.24	1.42
4	L	469	U	C3'-O3'	-11.78	1.24	1.42
1	I	272	A	C3'-O3'	-11.78	1.24	1.42
2	J	263	A	C3'-O3'	-11.78	1.24	1.42
3	K	219	A	C3'-O3'	-11.78	1.24	1.42
4	L	769	U	C3'-O3'	-11.78	1.24	1.42
2	J	219	A	C3'-O3'	-11.78	1.24	1.42
4	L	725	U	C3'-O3'	-11.78	1.24	1.42
4	L	773	U	C3'-O3'	-11.78	1.24	1.42
5	M	281	U	C3'-O3'	-11.78	1.24	1.42
1	I	295	A	C3'-O3'	-11.77	1.24	1.42
2	J	173	A	C3'-O3'	-11.77	1.24	1.42
2	J	265	A	C3'-O3'	-11.77	1.24	1.42
5	M	425	U	C3'-O3'	-11.77	1.24	1.42
3	K	242	A	C3'-O3'	-11.77	1.24	1.42
4	L	703	U	C3'-O3'	-11.77	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	286	U	C3'-O3'	-11.77	1.24	1.42
3	K	88	A	C3'-O3'	-11.77	1.24	1.42
3	K	120	A	C3'-O3'	-11.77	1.24	1.42
3	K	253	A	C3'-O3'	-11.77	1.24	1.42
1	I	201	A	C3'-O3'	-11.77	1.24	1.42
2	J	118	A	C3'-O3'	-11.77	1.24	1.42
5	M	348	U	C3'-O3'	-11.77	1.24	1.42
4	L	457	U	C3'-O3'	-11.77	1.24	1.42
4	L	472	U	C3'-O3'	-11.77	1.24	1.42
4	L	577	U	C3'-O3'	-11.77	1.24	1.42
1	I	104	A	C3'-O3'	-11.76	1.24	1.42
2	J	173	A	O3'-P	-11.76	1.43	1.61
4	L	505	U	C3'-O3'	-11.76	1.24	1.42
4	L	513	U	C3'-O3'	-11.76	1.24	1.42
1	I	344	A	C3'-O3'	-11.76	1.24	1.42
1	I	401	A	C3'-O3'	-11.76	1.24	1.42
5	M	303	U	C3'-O3'	-11.76	1.24	1.42
3	K	99	A	C3'-O3'	-11.76	1.24	1.42
5	M	450	U	C3'-O3'	-11.76	1.24	1.42
1	I	261	A	C3'-O3'	-11.76	1.24	1.42
1	I	302	A	C3'-O3'	-11.76	1.24	1.42
2	J	131	A	C3'-O3'	-11.76	1.24	1.42
4	L	483	U	C3'-O3'	-11.76	1.24	1.42
2	J	230	A	C3'-O3'	-11.75	1.24	1.42
3	K	81	A	O3'-P	-11.75	1.43	1.61
3	K	176	A	C3'-O3'	-11.75	1.24	1.42
2	J	169	A	C3'-O3'	-11.75	1.24	1.42
5	M	452	U	O3'-P	-11.75	1.43	1.61
2	J	184	A	C3'-O3'	-11.75	1.24	1.42
2	J	217	A	C3'-O3'	-11.75	1.24	1.42
4	L	574	U	C3'-O3'	-11.75	1.24	1.42
4	L	692	U	C3'-O3'	-11.75	1.24	1.42
5	M	381	U	C3'-O3'	-11.75	1.24	1.42
1	I	369	A	C3'-O3'	-11.75	1.24	1.42
4	L	424	U	C3'-O3'	-11.75	1.24	1.42
1	I	231	A	C3'-O3'	-11.75	1.24	1.42
4	L	610	U	C3'-O3'	-11.75	1.24	1.42
4	L	681	U	C3'-O3'	-11.75	1.24	1.42
1	I	340	A	C3'-O3'	-11.75	1.24	1.42
3	K	175	A	C3'-O3'	-11.75	1.24	1.42
4	L	533	U	C3'-O3'	-11.75	1.24	1.42
4	L	707	U	C3'-O3'	-11.75	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	260	A	C3'-O3'	-11.74	1.24	1.42
4	L	598	U	C3'-O3'	-11.74	1.24	1.42
4	L	740	U	C3'-O3'	-11.74	1.24	1.42
4	L	747	U	C3'-O3'	-11.74	1.24	1.42
5	M	384	U	C3'-O3'	-11.74	1.24	1.42
1	I	275	A	C3'-O3'	-11.74	1.24	1.42
1	I	325	A	C3'-O3'	-11.74	1.24	1.42
1	I	6	A	C3'-O3'	-11.74	1.24	1.42
2	J	276	A	C3'-O3'	-11.74	1.24	1.42
3	K	231	A	C3'-O3'	-11.74	1.24	1.42
5	M	533	U	C3'-O3'	-11.74	1.24	1.42
5	M	436	U	C3'-O3'	-11.74	1.24	1.42
6	N	441	U	C3'-O3'	-11.74	1.24	1.42
1	I	60	A	C3'-O3'	-11.74	1.24	1.42
2	J	197	A	C3'-O3'	-11.74	1.24	1.42
2	J	208	A	C3'-O3'	-11.74	1.24	1.42
2	J	250	A	C3'-O3'	-11.74	1.24	1.42
1	I	121	A	C3'-O3'	-11.74	1.24	1.42
1	I	137	A	C3'-O3'	-11.74	1.24	1.42
1	I	30	A	C3'-O3'	-11.73	1.24	1.42
1	I	81	A	C3'-O3'	-11.73	1.24	1.42
3	K	131	A	C3'-O3'	-11.73	1.24	1.42
4	L	523	U	C3'-O3'	-11.73	1.24	1.42
5	M	334	U	C3'-O3'	-11.73	1.24	1.42
4	L	569	U	C3'-O3'	-11.73	1.24	1.42
5	M	309	U	C3'-O3'	-11.73	1.24	1.42
5	M	370	U	C3'-O3'	-11.73	1.24	1.42
6	N	308	U	C3'-O3'	-11.73	1.24	1.42
1	I	216	A	C3'-O3'	-11.73	1.24	1.42
1	I	362	A	C3'-O3'	-11.73	1.24	1.42
2	J	239	A	C3'-O3'	-11.73	1.24	1.42
4	L	446	U	C3'-O3'	-11.73	1.24	1.42
4	L	524	U	C3'-O3'	-11.73	1.24	1.42
5	M	435	U	C3'-O3'	-11.73	1.24	1.42
2	J	261	A	C3'-O3'	-11.73	1.24	1.42
4	L	439	U	C3'-O3'	-11.73	1.24	1.42
4	L	521	U	C3'-O3'	-11.73	1.24	1.42
6	N	275	U	C3'-O3'	-11.73	1.24	1.42
1	I	377	A	C3'-O3'	-11.73	1.24	1.42
3	K	153	A	C3'-O3'	-11.73	1.24	1.42
4	L	425	U	C3'-O3'	-11.73	1.24	1.42
4	L	516	U	C3'-O3'	-11.73	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	399	U	O3'-P	-11.73	1.43	1.61
1	I	38	A	C3'-O3'	-11.72	1.24	1.42
1	I	402	A	C3'-O3'	-11.72	1.24	1.42
4	L	729	U	C3'-O3'	-11.72	1.24	1.42
1	I	11	A	C3'-O3'	-11.72	1.24	1.42
1	I	205	A	C3'-O3'	-11.72	1.24	1.42
3	K	121	A	C3'-O3'	-11.72	1.24	1.42
4	L	544	U	C3'-O3'	-11.72	1.24	1.42
4	L	685	U	C3'-O3'	-11.72	1.24	1.42
4	L	742	U	C3'-O3'	-11.72	1.24	1.42
4	L	824	U	C3'-O3'	-11.72	1.24	1.42
5	M	315	U	C3'-O3'	-11.72	1.24	1.42
3	K	154	A	C3'-O3'	-11.72	1.24	1.42
5	M	480	U	C3'-O3'	-11.72	1.24	1.42
4	L	494	U	C3'-O3'	-11.72	1.24	1.42
6	N	319	U	C3'-O3'	-11.72	1.24	1.42
1	I	228	A	C3'-O3'	-11.72	1.24	1.42
1	I	322	A	C3'-O3'	-11.72	1.24	1.42
4	L	775	U	C3'-O3'	-11.72	1.24	1.42
5	M	298	U	C3'-O3'	-11.72	1.24	1.42
5	M	312	U	C3'-O3'	-11.72	1.24	1.42
6	N	297	U	C3'-O3'	-11.72	1.24	1.42
1	I	144	A	C3'-O3'	-11.71	1.24	1.42
1	I	210	A	C3'-O3'	-11.71	1.24	1.42
2	J	274	A	C3'-O3'	-11.72	1.24	1.42
4	L	428	U	C3'-O3'	-11.72	1.24	1.42
2	J	180	A	C3'-O3'	-11.71	1.24	1.42
5	M	326	U	C3'-O3'	-11.71	1.24	1.42
2	J	30	A	C3'-O3'	-11.71	1.24	1.42
4	L	653	U	C3'-O3'	-11.71	1.24	1.42
4	L	676	U	C3'-O3'	-11.71	1.24	1.42
5	M	491	U	C3'-O3'	-11.71	1.24	1.42
6	N	430	U	C3'-O3'	-11.71	1.24	1.42
1	I	366	A	C3'-O3'	-11.71	1.24	1.42
2	J	129	A	C3'-O3'	-11.71	1.24	1.42
2	J	162	A	C3'-O3'	-11.71	1.24	1.42
2	J	228	A	C3'-O3'	-11.71	1.24	1.42
1	I	250	A	C3'-O3'	-11.71	1.24	1.42
2	J	76	A	C3'-O3'	-11.71	1.24	1.42
2	J	120	A	C3'-O3'	-11.71	1.24	1.42
4	L	484	U	C3'-O3'	-11.71	1.24	1.42
4	L	784	U	C3'-O3'	-11.71	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	181	A	C3'-O3'	-11.71	1.24	1.42
5	M	304	U	C3'-O3'	-11.71	1.24	1.42
5	M	413	U	C3'-O3'	-11.71	1.24	1.42
1	I	188	A	C3'-O3'	-11.71	1.24	1.42
1	I	249	A	C3'-O3'	-11.71	1.24	1.42
1	I	391	A	C3'-O3'	-11.71	1.24	1.42
4	L	512	U	C3'-O3'	-11.71	1.24	1.42
4	L	820	U	C3'-O3'	-11.71	1.24	1.42
2	J	186	A	C3'-O3'	-11.70	1.24	1.42
4	L	748	U	C3'-O3'	-11.71	1.24	1.42
4	L	753	U	C3'-O3'	-11.71	1.24	1.42
4	L	758	U	C3'-O3'	-11.70	1.24	1.42
1	I	220	A	C3'-O3'	-11.70	1.24	1.42
2	J	153	A	C3'-O3'	-11.70	1.24	1.42
2	J	199	A	C3'-O3'	-11.70	1.24	1.42
3	K	115	A	C3'-O3'	-11.70	1.24	1.42
3	K	142	A	C3'-O3'	-11.70	1.24	1.42
3	K	148	A	C3'-O3'	-11.70	1.24	1.42
3	K	187	A	C3'-O3'	-11.70	1.24	1.42
3	K	220	A	C3'-O3'	-11.70	1.24	1.42
4	L	643	U	C3'-O3'	-11.70	1.24	1.42
4	L	813	U	C3'-O3'	-11.70	1.24	1.42
1	I	58	A	C3'-O3'	-11.70	1.24	1.42
1	I	151	A	C3'-O3'	-11.70	1.24	1.42
3	K	259	A	C3'-O3'	-11.70	1.24	1.42
4	L	535	U	C3'-O3'	-11.70	1.24	1.42
4	L	687	U	C3'-O3'	-11.70	1.24	1.42
4	L	762	U	C3'-O3'	-11.70	1.24	1.42
4	L	806	U	C3'-O3'	-11.70	1.24	1.42
5	M	538	U	C3'-O3'	-11.70	1.24	1.42
1	I	25	A	C3'-O3'	-11.70	1.24	1.42
1	I	128	A	C3'-O3'	-11.70	1.24	1.42
4	L	473	U	C3'-O3'	-11.70	1.24	1.42
4	L	532	U	C3'-O3'	-11.70	1.24	1.42
4	L	632	U	C3'-O3'	-11.70	1.24	1.42
4	L	764	U	C3'-O3'	-11.70	1.24	1.42
1	I	55	A	C3'-O3'	-11.69	1.24	1.42
1	I	407	A	C3'-O3'	-11.69	1.24	1.42
4	L	586	U	C3'-O3'	-11.70	1.24	1.42
4	L	702	U	C3'-O3'	-11.70	1.24	1.42
4	L	818	U	C3'-O3'	-11.70	1.24	1.42
6	N	281	U	C3'-O3'	-11.70	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	731	U	C3'-O3'	-11.69	1.24	1.42
5	M	323	U	C3'-O3'	-11.70	1.24	1.42
5	M	505	U	C3'-O3'	-11.69	1.24	1.42
6	N	398	U	C3'-O3'	-11.70	1.24	1.42
4	L	416	U	C3'-O3'	-11.69	1.24	1.42
5	M	287	U	C3'-O3'	-11.69	1.24	1.42
5	M	424	U	C3'-O3'	-11.69	1.24	1.42
2	J	254	A	C3'-O3'	-11.69	1.24	1.42
3	K	76	A	C3'-O3'	-11.69	1.24	1.42
3	K	143	A	C3'-O3'	-11.69	1.24	1.42
4	L	445	U	C3'-O3'	-11.69	1.24	1.42
4	L	538	U	C3'-O3'	-11.69	1.24	1.42
4	L	732	U	C3'-O3'	-11.69	1.24	1.42
4	L	759	U	C3'-O3'	-11.69	1.24	1.42
4	L	795	U	C3'-O3'	-11.69	1.24	1.42
3	K	72	A	C3'-O3'	-11.69	1.24	1.42
4	L	564	U	C3'-O3'	-11.69	1.24	1.42
1	I	297	A	C3'-O3'	-11.69	1.24	1.42
3	K	104	A	C3'-O3'	-11.69	1.24	1.42
4	L	447	U	C3'-O3'	-11.69	1.24	1.42
4	L	526	U	C3'-O3'	-11.69	1.24	1.42
4	L	560	U	C3'-O3'	-11.69	1.24	1.42
5	M	329	U	C3'-O3'	-11.69	1.24	1.42
5	M	389	U	C3'-O3'	-11.69	1.24	1.42
5	M	439	U	C3'-O3'	-11.69	1.24	1.42
1	I	222	A	C3'-O3'	-11.69	1.24	1.42
2	J	158	A	C3'-O3'	-11.69	1.24	1.42
3	K	77	A	C3'-O3'	-11.69	1.24	1.42
4	L	726	U	C3'-O3'	-11.69	1.24	1.42
5	M	337	U	C3'-O3'	-11.69	1.24	1.42
5	M	527	U	C3'-O3'	-11.69	1.24	1.42
6	N	303	U	C3'-O3'	-11.69	1.24	1.42
1	I	122	A	C3'-O3'	-11.68	1.24	1.42
3	K	50	A	C3'-O3'	-11.68	1.24	1.42
1	I	374	A	C3'-O3'	-11.68	1.24	1.42
4	L	623	U	C3'-O3'	-11.68	1.24	1.42
1	I	292	A	C3'-O3'	-11.68	1.24	1.42
1	I	330	A	C3'-O3'	-11.68	1.24	1.42
2	J	19	A	C3'-O3'	-11.68	1.24	1.42
2	J	107	A	C3'-O3'	-11.68	1.24	1.42
2	J	164	A	C3'-O3'	-11.68	1.24	1.42
2	J	175	A	C3'-O3'	-11.68	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	171	A	C3'-O3'	-11.68	1.24	1.42
2	J	272	A	C3'-O3'	-11.68	1.24	1.42
3	K	137	A	C3'-O3'	-11.68	1.24	1.42
3	K	170	A	C3'-O3'	-11.68	1.24	1.42
4	L	671	U	C3'-O3'	-11.68	1.24	1.42
4	L	718	U	C3'-O3'	-11.68	1.24	1.42
5	M	402	U	C3'-O3'	-11.68	1.24	1.42
5	M	458	U	C3'-O3'	-11.68	1.24	1.42
5	M	490	U	C3'-O3'	-11.68	1.24	1.42
2	J	96	A	C3'-O3'	-11.68	1.24	1.42
3	K	11	A	C3'-O3'	-11.68	1.24	1.42
1	I	52	A	C3'-O3'	-11.68	1.24	1.42
1	I	98	A	C3'-O3'	-11.68	1.24	1.42
2	J	91	A	C3'-O3'	-11.68	1.24	1.42
3	K	6	A	C3'-O3'	-11.68	1.24	1.42
3	K	23	A	C3'-O3'	-11.68	1.24	1.42
3	K	193	A	C3'-O3'	-11.68	1.24	1.42
3	K	216	A	C3'-O3'	-11.68	1.24	1.42
4	L	700	U	C3'-O3'	-11.68	1.24	1.42
5	M	285	U	C3'-O3'	-11.68	1.24	1.42
5	M	353	U	C3'-O3'	-11.68	1.24	1.42
5	M	391	U	C3'-O3'	-11.68	1.24	1.42
5	M	446	U	C3'-O3'	-11.68	1.24	1.42
5	M	516	U	C3'-O3'	-11.68	1.24	1.42
1	I	179	A	C3'-O3'	-11.67	1.24	1.42
2	J	260	A	C3'-O3'	-11.67	1.24	1.42
5	M	447	U	C3'-O3'	-11.67	1.24	1.42
6	N	473	U	C3'-O3'	-11.67	1.24	1.42
3	K	165	A	C3'-O3'	-11.67	1.24	1.42
6	N	474	U	C3'-O3'	-11.67	1.24	1.42
3	K	105	A	C3'-O3'	-11.67	1.24	1.42
3	K	109	A	C3'-O3'	-11.67	1.24	1.42
4	L	549	U	C3'-O3'	-11.67	1.24	1.42
5	M	472	U	C3'-O3'	-11.67	1.24	1.42
5	M	483	U	C3'-O3'	-11.67	1.24	1.42
6	N	386	U	C3'-O3'	-11.67	1.24	1.42
5	M	522	U	C3'-O3'	-11.67	1.24	1.42
1	I	106	A	C3'-O3'	-11.67	1.24	1.42
3	K	60	A	C3'-O3'	-11.67	1.24	1.42
3	K	94	A	C3'-O3'	-11.67	1.24	1.42
3	K	107	A	C3'-O3'	-11.67	1.24	1.42
4	L	500	U	C3'-O3'	-11.67	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	506	U	C3'-O3'	-11.67	1.24	1.42
4	L	607	U	C3'-O3'	-11.67	1.24	1.42
4	L	809	U	C3'-O3'	-11.67	1.24	1.42
5	M	390	U	C3'-O3'	-11.67	1.24	1.42
1	I	314	A	C3'-O3'	-11.66	1.24	1.42
1	I	78	A	C3'-O3'	-11.66	1.24	1.42
1	I	95	A	C3'-O3'	-11.66	1.24	1.42
1	I	123	A	C3'-O3'	-11.66	1.24	1.42
1	I	288	A	C3'-O3'	-11.66	1.24	1.42
4	L	620	U	C3'-O3'	-11.66	1.24	1.42
6	N	420	U	C3'-O3'	-11.66	1.24	1.42
4	L	434	U	C3'-O3'	-11.66	1.24	1.42
4	L	451	U	C3'-O3'	-11.66	1.24	1.42
4	L	522	U	C3'-O3'	-11.66	1.24	1.42
4	L	558	U	C3'-O3'	-11.66	1.24	1.42
5	M	367	U	C3'-O3'	-11.66	1.24	1.42
5	M	457	U	C3'-O3'	-11.66	1.24	1.42
6	N	280	U	C3'-O3'	-11.66	1.24	1.42
6	N	435	U	C3'-O3'	-11.66	1.24	1.42
6	N	486	U	C3'-O3'	-11.66	1.24	1.42
1	I	91	A	C3'-O3'	-11.66	1.24	1.42
1	I	101	A	C3'-O3'	-11.66	1.24	1.42
1	I	111	A	C3'-O3'	-11.66	1.24	1.42
4	L	596	U	C3'-O3'	-11.66	1.24	1.42
1	I	113	A	C3'-O3'	-11.66	1.24	1.42
1	I	199	A	C3'-O3'	-11.66	1.24	1.42
2	J	98	A	C3'-O3'	-11.66	1.24	1.42
2	J	237	A	C3'-O3'	-11.66	1.24	1.42
3	K	110	A	C3'-O3'	-11.66	1.24	1.42
4	L	436	U	C3'-O3'	-11.66	1.24	1.42
5	M	461	U	C3'-O3'	-11.66	1.24	1.42
6	N	431	U	C3'-O3'	-11.66	1.24	1.42
6	N	468	U	C3'-O3'	-11.66	1.24	1.42
1	I	8	A	C3'-O3'	-11.66	1.24	1.42
3	K	52	A	C3'-O3'	-11.66	1.24	1.42
3	K	63	A	C3'-O3'	-11.66	1.24	1.42
3	K	204	A	C3'-O3'	-11.66	1.24	1.42
3	K	217	A	C3'-O3'	-11.66	1.24	1.42
4	L	441	U	C3'-O3'	-11.66	1.24	1.42
6	N	292	U	C3'-O3'	-11.66	1.24	1.42
6	N	495	U	C3'-O3'	-11.66	1.24	1.42
4	L	649	U	C3'-O3'	-11.66	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	478	U	C3'-O3'	-11.66	1.24	1.42
1	I	23	A	C3'-O3'	-11.65	1.24	1.42
2	J	85	A	C3'-O3'	-11.65	1.24	1.42
3	K	85	A	C3'-O3'	-11.65	1.24	1.42
4	L	688	U	C3'-O3'	-11.65	1.24	1.42
5	M	395	U	C3'-O3'	-11.65	1.24	1.42
5	M	397	U	C3'-O3'	-11.65	1.24	1.42
5	M	428	U	C3'-O3'	-11.65	1.24	1.42
6	N	461	U	C3'-O3'	-11.65	1.24	1.42
1	I	79	A	C3'-O3'	-11.65	1.24	1.42
1	I	160	A	C3'-O3'	-11.65	1.24	1.42
1	I	170	A	C3'-O3'	-11.65	1.24	1.42
3	K	30	A	C3'-O3'	-11.65	1.24	1.42
4	L	621	U	C3'-O3'	-11.65	1.24	1.42
2	J	144	A	C3'-O3'	-11.65	1.24	1.42
3	K	226	A	C3'-O3'	-11.65	1.24	1.42
4	L	568	U	C3'-O3'	-11.65	1.24	1.42
3	K	228	A	C3'-O3'	-11.65	1.24	1.42
4	L	517	U	C3'-O3'	-11.65	1.24	1.42
4	L	755	U	C3'-O3'	-11.65	1.24	1.42
4	L	817	U	C3'-O3'	-11.65	1.24	1.42
5	M	479	U	C3'-O3'	-11.65	1.24	1.42
6	N	314	U	C3'-O3'	-11.65	1.24	1.42
1	I	159	A	C3'-O3'	-11.65	1.24	1.42
1	I	399	A	C3'-O3'	-11.65	1.24	1.42
2	J	69	A	C3'-O3'	-11.65	1.24	1.42
3	K	83	A	C3'-O3'	-11.65	1.24	1.42
3	K	260	A	C3'-O3'	-11.65	1.24	1.42
4	L	496	U	C3'-O3'	-11.65	1.24	1.42
5	M	373	U	C3'-O3'	-11.65	1.24	1.42
4	L	461	U	C3'-O3'	-11.65	1.24	1.42
4	L	502	U	C3'-O3'	-11.65	1.24	1.42
4	L	663	U	C3'-O3'	-11.65	1.24	1.42
6	N	324	U	C3'-O3'	-11.65	1.24	1.42
4	L	608	U	C3'-O3'	-11.65	1.24	1.42
5	M	278	U	C3'-O3'	-11.65	1.24	1.42
5	M	469	U	C3'-O3'	-11.65	1.24	1.42
6	N	291	U	C3'-O3'	-11.65	1.24	1.42
6	N	340	U	C3'-O3'	-11.65	1.24	1.42
6	N	347	U	C3'-O3'	-11.65	1.24	1.42
6	N	375	U	C3'-O3'	-11.65	1.24	1.42
1	I	62	A	C3'-O3'	-11.64	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	4	A	C3'-O3'	-11.64	1.24	1.42
3	K	159	A	C3'-O3'	-11.64	1.24	1.42
3	K	192	A	C3'-O3'	-11.64	1.24	1.42
3	K	237	A	C3'-O3'	-11.64	1.24	1.42
4	L	597	U	C3'-O3'	-11.64	1.24	1.42
5	M	307	U	C3'-O3'	-11.64	1.24	1.42
5	M	385	U	O3'-P	11.64	1.78	1.61
5	M	552	U	C3'-O3'	-11.64	1.24	1.42
1	I	110	A	C3'-O3'	-11.64	1.24	1.42
1	I	117	A	C3'-O3'	-11.64	1.24	1.42
2	J	8	A	C3'-O3'	-11.64	1.24	1.42
2	J	243	A	C3'-O3'	-11.64	1.24	1.42
3	K	61	A	C3'-O3'	-11.64	1.24	1.42
3	K	248	A	C3'-O3'	-11.64	1.24	1.42
4	L	580	U	C3'-O3'	-11.64	1.24	1.42
4	L	689	U	C3'-O3'	-11.64	1.24	1.42
4	L	712	U	C3'-O3'	-11.64	1.24	1.42
4	L	765	U	C3'-O3'	-11.64	1.24	1.42
4	L	799	U	C3'-O3'	-11.64	1.24	1.42
5	M	362	U	C3'-O3'	-11.64	1.24	1.42
6	N	365	U	C3'-O3'	-11.64	1.24	1.42
6	N	446	U	C3'-O3'	-11.64	1.24	1.42
6	N	475	U	C3'-O3'	-11.64	1.24	1.42
6	N	496	U	C3'-O3'	-11.64	1.24	1.42
3	K	87	A	C3'-O3'	-11.64	1.24	1.42
5	M	445	U	C3'-O3'	-11.64	1.24	1.42
3	K	93	A	C3'-O3'	-11.64	1.24	1.42
3	K	225	A	C3'-O3'	-11.64	1.24	1.42
4	L	720	U	C3'-O3'	-11.64	1.24	1.42
5	M	378	U	C3'-O3'	-11.64	1.24	1.42
4	L	701	U	C3'-O3'	-11.64	1.24	1.42
1	I	221	A	C3'-O3'	-11.63	1.24	1.42
1	I	336	A	C3'-O3'	-11.63	1.24	1.42
4	L	518	U	C3'-O3'	-11.64	1.24	1.42
4	L	582	U	C3'-O3'	-11.64	1.24	1.42
4	L	815	U	C3'-O3'	-11.63	1.24	1.42
6	N	513	U	C3'-O3'	-11.63	1.24	1.42
1	I	145	A	C3'-O3'	-11.63	1.24	1.42
1	I	168	A	C3'-O3'	-11.63	1.24	1.42
6	N	376	U	C3'-O3'	-11.63	1.24	1.42
1	I	370	A	C3'-O3'	-11.63	1.24	1.42
2	J	87	A	C3'-O3'	-11.63	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	89	A	C3'-O3'	-11.63	1.24	1.42
2	J	221	A	C3'-O3'	-11.63	1.24	1.42
4	L	414	U	C3'-O3'	-11.63	1.24	1.42
4	L	450	U	C3'-O3'	-11.63	1.24	1.42
5	M	293	U	C3'-O3'	-11.63	1.24	1.42
6	N	298	U	C3'-O3'	-11.63	1.24	1.42
6	N	374	U	C3'-O3'	-11.63	1.24	1.42
6	N	424	U	C3'-O3'	-11.63	1.24	1.42
6	N	479	U	C3'-O3'	-11.63	1.24	1.42
1	I	45	A	C3'-O3'	-11.63	1.24	1.42
1	I	93	A	C3'-O3'	-11.63	1.24	1.42
1	I	107	A	C3'-O3'	-11.63	1.24	1.42
2	J	22	A	C3'-O3'	-11.63	1.24	1.42
3	K	258	A	C3'-O3'	-11.63	1.24	1.42
4	L	776	U	C3'-O3'	-11.63	1.24	1.42
2	J	41	A	C3'-O3'	-11.63	1.24	1.42
2	J	147	A	C3'-O3'	-11.63	1.24	1.42
3	K	3	A	C3'-O3'	-11.63	1.24	1.42
4	L	559	U	C3'-O3'	-11.63	1.24	1.42
4	L	633	U	C3'-O3'	-11.63	1.24	1.42
4	L	664	U	C3'-O3'	-11.63	1.24	1.42
5	M	386	U	C3'-O3'	-11.63	1.24	1.42
5	M	511	U	C3'-O3'	-11.63	1.24	1.42
5	M	523	U	C3'-O3'	-11.63	1.24	1.42
1	I	67	A	C3'-O3'	-11.63	1.24	1.42
1	I	76	A	C3'-O3'	-11.63	1.24	1.42
1	I	140	A	C3'-O3'	-11.62	1.24	1.42
1	I	280	A	C3'-O3'	-11.62	1.24	1.42
2	J	155	A	C3'-O3'	-11.63	1.24	1.42
2	J	188	A	C3'-O3'	-11.63	1.24	1.42
2	J	201	A	C3'-O3'	-11.63	1.24	1.42
3	K	84	A	C3'-O3'	-11.63	1.24	1.42
3	K	126	A	C3'-O3'	-11.63	1.24	1.42
5	M	508	U	C3'-O3'	-11.63	1.24	1.42
6	N	451	U	C3'-O3'	-11.63	1.24	1.42
6	N	463	U	C3'-O3'	-11.63	1.24	1.42
1	I	390	A	C3'-O3'	-11.62	1.24	1.42
2	J	245	A	O3'-P	11.62	1.78	1.61
3	K	44	A	C3'-O3'	-11.62	1.24	1.42
4	L	418	U	C3'-O3'	-11.62	1.24	1.42
5	M	541	U	C3'-O3'	-11.62	1.24	1.42
6	N	270	U	C3'-O3'	-11.62	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	490	U	C3'-O3'	-11.62	1.24	1.42
1	I	22	A	C3'-O3'	-11.62	1.24	1.42
1	I	27	A	C3'-O3'	-11.62	1.24	1.42
1	I	65	A	C3'-O3'	-11.62	1.24	1.42
1	I	212	A	C3'-O3'	-11.62	1.24	1.42
2	J	246	A	C3'-O3'	-11.62	1.24	1.42
1	I	71	A	C3'-O3'	-11.62	1.24	1.42
1	I	217	A	C3'-O3'	-11.62	1.24	1.42
1	I	385	A	C3'-O3'	-11.62	1.24	1.42
3	K	49	A	O3'-P	11.62	1.78	1.61
2	J	227	A	C3'-O3'	-11.62	1.24	1.42
3	K	250	A	C3'-O3'	-11.62	1.24	1.42
4	L	536	U	C3'-O3'	-11.62	1.24	1.42
4	L	611	U	C3'-O3'	-11.62	1.24	1.42
4	L	631	U	C3'-O3'	-11.62	1.24	1.42
4	L	636	U	C3'-O3'	-11.62	1.24	1.42
4	L	682	U	C3'-O3'	-11.62	1.24	1.42
6	N	442	U	C3'-O3'	-11.62	1.24	1.42
6	N	500	U	C3'-O3'	-11.62	1.24	1.42
1	I	56	A	C3'-O3'	-11.62	1.24	1.42
1	I	255	A	C3'-O3'	-11.62	1.24	1.42
1	I	357	A	C3'-O3'	-11.62	1.24	1.42
3	K	71	A	C3'-O3'	-11.62	1.24	1.42
4	L	715	U	C3'-O3'	-11.62	1.24	1.42
5	M	331	U	C3'-O3'	-11.62	1.24	1.42
5	M	356	U	C3'-O3'	-11.62	1.24	1.42
1	I	103	A	C3'-O3'	-11.62	1.24	1.42
1	I	204	A	C3'-O3'	-11.62	1.24	1.42
1	I	388	A	C3'-O3'	-11.62	1.24	1.42
3	K	239	A	C3'-O3'	-11.62	1.24	1.42
4	L	590	U	C3'-O3'	-11.62	1.24	1.42
4	L	756	U	C3'-O3'	-11.62	1.24	1.42
5	M	456	U	C3'-O3'	-11.62	1.24	1.42
6	N	419	U	C3'-O3'	-11.62	1.24	1.42
2	J	109	A	C3'-O3'	-11.62	1.24	1.42
3	K	82	A	C3'-O3'	-11.62	1.24	1.42
3	K	98	A	C3'-O3'	-11.62	1.24	1.42
4	L	417	U	C3'-O3'	-11.62	1.24	1.42
4	L	485	U	C3'-O3'	-11.62	1.24	1.42
5	M	535	U	C3'-O3'	-11.62	1.24	1.42
6	N	302	U	C3'-O3'	-11.62	1.24	1.42
6	N	327	U	C3'-O3'	-11.62	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	357	U	C3'-O3'	-11.62	1.24	1.42
6	N	402	U	C3'-O3'	-11.62	1.24	1.42
6	N	409	U	C3'-O3'	-11.62	1.24	1.42
6	N	413	U	C3'-O3'	-11.62	1.24	1.42
1	I	10	A	C3'-O3'	-11.62	1.24	1.42
3	K	17	A	C3'-O3'	-11.62	1.24	1.42
3	K	41	A	C3'-O3'	-11.62	1.24	1.42
1	I	28	A	C3'-O3'	-11.61	1.24	1.42
1	I	164	A	C3'-O3'	-11.61	1.24	1.42
1	I	308	A	C3'-O3'	-11.62	1.24	1.42
2	J	13	A	C3'-O3'	-11.61	1.24	1.42
2	J	146	A	C3'-O3'	-11.62	1.24	1.42
3	K	128	A	C3'-O3'	-11.62	1.24	1.42
3	K	215	A	C3'-O3'	-11.62	1.24	1.42
4	L	427	U	C3'-O3'	-11.62	1.24	1.42
5	M	379	U	C3'-O3'	-11.61	1.24	1.42
5	M	497	U	C3'-O3'	-11.61	1.24	1.42
6	N	325	U	C3'-O3'	-11.61	1.24	1.42
6	N	391	U	C3'-O3'	-11.61	1.24	1.42
6	N	458	U	C3'-O3'	-11.61	1.24	1.42
6	N	462	U	C3'-O3'	-11.61	1.24	1.42
6	N	530	U	C3'-O3'	-11.62	1.24	1.42
1	I	61	A	C3'-O3'	-11.61	1.24	1.42
2	J	3	A	C3'-O3'	-11.61	1.24	1.42
2	J	44	A	C3'-O3'	-11.61	1.24	1.42
2	J	75	A	C3'-O3'	-11.61	1.24	1.42
2	J	135	A	C3'-O3'	-11.61	1.24	1.42
3	K	118	A	C3'-O3'	-11.61	1.24	1.42
4	L	463	U	C3'-O3'	-11.61	1.24	1.42
2	J	125	A	C3'-O3'	-11.61	1.24	1.42
3	K	65	A	C3'-O3'	-11.61	1.24	1.42
3	K	206	A	C3'-O3'	-11.61	1.24	1.42
4	L	433	U	C3'-O3'	-11.61	1.24	1.42
4	L	452	U	C3'-O3'	-11.61	1.24	1.42
4	L	515	U	C3'-O3'	-11.61	1.24	1.42
4	L	823	U	C3'-O3'	-11.61	1.24	1.42
4	L	591	U	C3'-O3'	-11.61	1.24	1.42
4	L	677	U	C3'-O3'	-11.61	1.24	1.42
6	N	313	U	C3'-O3'	-11.61	1.24	1.42
6	N	330	U	C3'-O3'	-11.61	1.24	1.42
1	I	26	A	C3'-O3'	-11.61	1.24	1.42
1	I	73	A	C3'-O3'	-11.61	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	184	A	C3'-O3'	-11.61	1.24	1.42
2	J	52	A	C3'-O3'	-11.61	1.24	1.42
2	J	179	A	C3'-O3'	-11.61	1.24	1.42
4	L	616	U	C3'-O3'	-11.61	1.24	1.42
1	I	254	A	C3'-O3'	-11.61	1.24	1.42
2	J	78	A	C3'-O3'	-11.61	1.24	1.42
2	J	216	A	C3'-O3'	-11.61	1.24	1.42
2	J	271	A	C3'-O3'	-11.61	1.24	1.42
4	L	641	U	C3'-O3'	-11.61	1.24	1.42
4	L	648	U	O3'-P	-11.61	1.43	1.61
4	L	655	U	C3'-O3'	-11.61	1.24	1.42
4	L	697	U	C3'-O3'	-11.61	1.24	1.42
4	L	698	U	C3'-O3'	-11.61	1.24	1.42
4	L	709	U	C3'-O3'	-11.61	1.24	1.42
5	M	400	U	C3'-O3'	-11.61	1.24	1.42
5	M	513	U	C3'-O3'	-11.61	1.24	1.42
5	M	534	U	C3'-O3'	-11.61	1.24	1.42
6	N	408	U	C3'-O3'	-11.61	1.24	1.42
6	N	489	U	C3'-O3'	-11.61	1.24	1.42
2	J	124	A	C3'-O3'	-11.61	1.24	1.42
2	J	202	A	C3'-O3'	-11.61	1.24	1.42
5	M	468	U	C3'-O3'	-11.61	1.24	1.42
6	N	503	U	C3'-O3'	-11.61	1.24	1.42
6	N	509	U	C3'-O3'	-11.61	1.24	1.42
1	I	21	A	C3'-O3'	-11.61	1.24	1.42
1	I	68	A	C3'-O3'	-11.61	1.24	1.42
1	I	269	A	C3'-O3'	-11.61	1.24	1.42
2	J	213	A	C3'-O3'	-11.61	1.24	1.42
3	K	95	A	C3'-O3'	-11.61	1.24	1.42
4	L	540	U	C3'-O3'	-11.61	1.24	1.42
4	L	658	U	C3'-O3'	-11.61	1.24	1.42
4	L	733	U	C3'-O3'	-11.61	1.24	1.42
5	M	335	U	C3'-O3'	-11.61	1.24	1.42
5	M	423	U	C3'-O3'	-11.61	1.24	1.42
6	N	269	U	C3'-O3'	-11.61	1.24	1.42
3	K	245	A	C3'-O3'	-11.60	1.24	1.42
1	I	57	A	C3'-O3'	-11.60	1.24	1.42
1	I	124	A	C3'-O3'	-11.60	1.24	1.42
1	I	158	A	C3'-O3'	-11.60	1.24	1.42
1	I	296	A	C3'-O3'	-11.60	1.24	1.42
2	J	235	A	C3'-O3'	-11.60	1.24	1.42
3	K	8	A	C3'-O3'	-11.60	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	786	U	C3'-O3'	-11.60	1.24	1.42
4	L	821	U	C3'-O3'	-11.60	1.24	1.42
5	M	496	U	C3'-O3'	-11.60	1.24	1.42
1	I	410	A	C3'-O3'	-11.60	1.24	1.42
2	J	55	A	C3'-O3'	-11.60	1.24	1.42
3	K	14	A	C3'-O3'	-11.60	1.24	1.42
3	K	68	A	C3'-O3'	-11.60	1.24	1.42
3	K	160	A	C3'-O3'	-11.60	1.24	1.42
3	K	74	A	C3'-O3'	-11.60	1.24	1.42
4	L	665	U	C3'-O3'	-11.60	1.24	1.42
4	L	802	U	C3'-O3'	-11.60	1.24	1.42
5	M	481	U	C3'-O3'	-11.60	1.24	1.42
5	M	500	U	C3'-O3'	-11.60	1.24	1.42
6	N	296	U	C3'-O3'	-11.60	1.24	1.42
6	N	516	U	C3'-O3'	-11.60	1.24	1.42
4	L	741	U	C3'-O3'	-11.60	1.24	1.42
1	I	118	A	C3'-O3'	-11.60	1.24	1.42
1	I	133	A	C3'-O3'	-11.60	1.24	1.42
2	J	136	A	C3'-O3'	-11.60	1.24	1.42
2	J	205	A	C3'-O3'	-11.60	1.24	1.42
2	J	53	A	C3'-O3'	-11.60	1.24	1.42
2	J	150	A	C3'-O3'	-11.60	1.24	1.42
4	L	674	U	C3'-O3'	-11.60	1.24	1.42
4	L	675	U	C3'-O3'	-11.60	1.24	1.42
3	K	247	A	C3'-O3'	-11.60	1.24	1.42
4	L	638	U	C3'-O3'	-11.60	1.24	1.42
4	L	660	U	C3'-O3'	-11.60	1.24	1.42
4	L	779	U	C3'-O3'	-11.60	1.24	1.42
5	M	357	U	C3'-O3'	-11.60	1.24	1.42
6	N	457	U	C3'-O3'	-11.60	1.24	1.42
6	N	491	U	C3'-O3'	-11.60	1.24	1.42
1	I	17	A	C3'-O3'	-11.60	1.24	1.42
1	I	147	A	C3'-O3'	-11.60	1.24	1.42
1	I	182	A	C3'-O3'	-11.60	1.24	1.42
1	I	265	A	C3'-O3'	-11.60	1.24	1.42
2	J	152	A	C3'-O3'	-11.60	1.24	1.42
4	L	770	U	C3'-O3'	-11.60	1.24	1.42
6	N	358	U	C3'-O3'	-11.60	1.24	1.42
6	N	418	U	C3'-O3'	-11.60	1.24	1.42
1	I	333	A	C3'-O3'	-11.60	1.24	1.42
2	J	210	A	C3'-O3'	-11.60	1.24	1.42
3	K	73	A	C3'-O3'	-11.60	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	238	A	C3'-O3'	-11.60	1.24	1.42
4	L	491	U	C3'-O3'	-11.60	1.24	1.42
4	L	619	U	C3'-O3'	-11.60	1.24	1.42
5	M	346	U	C3'-O3'	-11.60	1.24	1.42
4	L	465	U	C3'-O3'	-11.60	1.24	1.42
4	L	542	U	C3'-O3'	-11.60	1.24	1.42
4	L	737	U	C3'-O3'	-11.60	1.24	1.42
4	L	781	U	C3'-O3'	-11.60	1.24	1.42
4	L	792	U	C3'-O3'	-11.60	1.24	1.42
5	M	546	U	C3'-O3'	-11.60	1.24	1.42
6	N	341	U	C3'-O3'	-11.60	1.24	1.42
1	I	7	A	C3'-O3'	-11.59	1.24	1.42
1	I	12	A	C3'-O3'	-11.59	1.24	1.42
1	I	318	A	C3'-O3'	-11.59	1.24	1.42
4	L	462	U	C3'-O3'	-11.59	1.24	1.42
1	I	195	A	C3'-O3'	-11.59	1.24	1.42
2	J	10	A	C3'-O3'	-11.59	1.24	1.42
4	L	489	U	C3'-O3'	-11.59	1.24	1.42
2	J	21	A	C3'-O3'	-11.59	1.24	1.42
2	J	36	A	C3'-O3'	-11.59	1.24	1.42
2	J	47	A	C3'-O3'	-11.59	1.24	1.42
2	J	128	A	C3'-O3'	-11.59	1.24	1.42
2	J	172	A	C3'-O3'	-11.59	1.24	1.42
3	K	1	A	C3'-O3'	-11.59	1.24	1.42
3	K	39	A	C3'-O3'	-11.59	1.24	1.42
3	K	79	A	C3'-O3'	-11.59	1.24	1.42
3	K	162	A	C3'-O3'	-11.59	1.24	1.42
4	L	467	U	C3'-O3'	-11.59	1.24	1.42
4	L	493	U	C3'-O3'	-11.59	1.24	1.42
4	L	724	U	C3'-O3'	-11.59	1.24	1.42
4	L	743	U	C3'-O3'	-11.59	1.24	1.42
4	L	814	U	C3'-O3'	-11.59	1.24	1.42
5	M	340	U	C3'-O3'	-11.59	1.24	1.42
5	M	351	U	C3'-O3'	-11.59	1.24	1.42
5	M	470	U	C3'-O3'	-11.59	1.24	1.42
5	M	540	U	C3'-O3'	-11.59	1.24	1.42
1	I	15	A	C3'-O3'	-11.59	1.24	1.42
1	I	16	A	C3'-O3'	-11.59	1.24	1.42
1	I	307	A	C3'-O3'	-11.59	1.24	1.42
1	I	351	A	C3'-O3'	-11.59	1.24	1.42
2	J	168	A	C3'-O3'	-11.59	1.24	1.42
3	K	227	A	C3'-O3'	-11.59	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	69	A	C3'-O3'	-11.59	1.24	1.42
1	I	177	A	C3'-O3'	-11.59	1.24	1.42
1	I	192	A	C3'-O3'	-11.59	1.24	1.42
1	I	396	A	C3'-O3'	-11.59	1.24	1.42
2	J	218	A	C3'-O3'	-11.59	1.24	1.42
3	K	132	A	C3'-O3'	-11.59	1.24	1.42
4	L	635	U	C3'-O3'	-11.59	1.24	1.42
4	L	780	U	C3'-O3'	-11.59	1.24	1.42
6	N	452	U	C3'-O3'	-11.59	1.24	1.42
2	J	25	A	C3'-O3'	-11.59	1.24	1.42
2	J	74	A	C3'-O3'	-11.59	1.24	1.42
2	J	183	A	C3'-O3'	-11.59	1.24	1.42
2	J	224	A	C3'-O3'	-11.59	1.24	1.42
3	K	249	A	C3'-O3'	-11.59	1.24	1.42
4	L	757	U	C3'-O3'	-11.59	1.24	1.42
4	L	790	U	C3'-O3'	-11.59	1.24	1.42
4	L	811	U	C3'-O3'	-11.59	1.24	1.42
5	M	284	U	O3'-P	11.59	1.78	1.61
5	M	318	U	C3'-O3'	-11.59	1.24	1.42
5	M	467	U	C3'-O3'	-11.59	1.24	1.42
6	N	368	U	C3'-O3'	-11.59	1.24	1.42
6	N	501	U	C3'-O3'	-11.59	1.24	1.42
1	I	90	A	C3'-O3'	-11.59	1.24	1.42
3	K	182	A	C3'-O3'	-11.59	1.24	1.42
3	K	214	A	C3'-O3'	-11.59	1.24	1.42
4	L	571	U	C3'-O3'	-11.59	1.24	1.42
4	L	807	U	C3'-O3'	-11.59	1.24	1.42
5	M	345	U	C3'-O3'	-11.59	1.24	1.42
2	J	113	A	C3'-O3'	-11.59	1.24	1.42
2	J	259	A	C3'-O3'	-11.59	1.24	1.42
3	K	10	A	C3'-O3'	-11.59	1.24	1.42
3	K	25	A	C3'-O3'	-11.59	1.24	1.42
4	L	430	U	C3'-O3'	-11.59	1.24	1.42
4	L	474	U	C3'-O3'	-11.59	1.24	1.42
4	L	816	U	C3'-O3'	-11.59	1.24	1.42
5	M	434	U	C3'-O3'	-11.59	1.24	1.42
5	M	452	U	C3'-O3'	-11.59	1.24	1.42
5	M	514	U	C3'-O3'	-11.59	1.24	1.42
6	N	343	U	C3'-O3'	-11.59	1.24	1.42
6	N	346	U	C3'-O3'	-11.59	1.24	1.42
6	N	369	U	C3'-O3'	-11.59	1.24	1.42
1	I	115	A	C3'-O3'	-11.58	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	120	A	C3'-O3'	-11.58	1.24	1.42
1	I	166	A	C3'-O3'	-11.58	1.24	1.42
1	I	193	A	C3'-O3'	-11.58	1.24	1.42
2	J	66	A	C3'-O3'	-11.58	1.24	1.42
2	J	86	A	C3'-O3'	-11.58	1.24	1.42
2	J	159	A	C3'-O3'	-11.58	1.24	1.42
2	J	275	A	C3'-O3'	-11.58	1.24	1.42
3	K	7	A	C3'-O3'	-11.58	1.24	1.42
3	K	151	A	C3'-O3'	-11.58	1.24	1.42
5	M	296	U	C3'-O3'	-11.58	1.24	1.42
3	K	199	A	C3'-O3'	-11.58	1.24	1.42
3	K	236	A	C3'-O3'	-11.58	1.24	1.42
4	L	547	U	C3'-O3'	-11.58	1.24	1.42
6	N	397	U	C3'-O3'	-11.58	1.24	1.42
6	N	497	U	C3'-O3'	-11.58	1.24	1.42
1	I	156	A	C3'-O3'	-11.58	1.24	1.42
1	I	36	A	C3'-O3'	-11.58	1.24	1.42
1	I	181	A	C3'-O3'	-11.58	1.24	1.42
1	I	243	A	C3'-O3'	-11.58	1.24	1.42
1	I	183	A	C3'-O3'	-11.58	1.24	1.42
2	J	15	A	C3'-O3'	-11.58	1.24	1.42
2	J	24	A	C3'-O3'	-11.58	1.24	1.42
2	J	54	A	C3'-O3'	-11.58	1.24	1.42
2	J	108	A	C3'-O3'	-11.58	1.24	1.42
2	J	141	A	C3'-O3'	-11.58	1.24	1.42
2	J	207	A	C3'-O3'	-11.58	1.24	1.42
2	J	248	A	C3'-O3'	-11.58	1.24	1.42
2	J	251	A	C3'-O3'	-11.58	1.24	1.42
3	K	34	A	C3'-O3'	-11.58	1.24	1.42
4	L	537	U	C3'-O3'	-11.58	1.24	1.42
4	L	573	U	C3'-O3'	-11.58	1.24	1.42
4	L	767	U	C3'-O3'	-11.58	1.24	1.42
4	L	777	U	C3'-O3'	-11.58	1.24	1.42
5	M	406	U	C3'-O3'	-11.58	1.24	1.42
5	M	484	U	C3'-O3'	-11.58	1.24	1.42
5	M	494	U	C3'-O3'	-11.58	1.24	1.42
5	M	501	U	C3'-O3'	-11.58	1.24	1.42
5	M	524	U	C3'-O3'	-11.58	1.24	1.42
6	N	320	U	C3'-O3'	-11.58	1.24	1.42
6	N	352	U	C3'-O3'	-11.58	1.24	1.42
6	N	363	U	C3'-O3'	-11.58	1.24	1.42
6	N	364	U	C3'-O3'	-11.58	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	380	U	C3'-O3'	-11.58	1.24	1.42
6	N	385	U	C3'-O3'	-11.58	1.24	1.42
6	N	518	U	C3'-O3'	-11.58	1.24	1.42
6	N	525	U	C3'-O3'	-11.58	1.24	1.42
1	I	50	A	C3'-O3'	-11.58	1.24	1.42
1	I	112	A	C3'-O3'	-11.58	1.24	1.42
1	I	135	A	C3'-O3'	-11.58	1.24	1.42
1	I	266	A	C3'-O3'	-11.58	1.24	1.42
2	J	6	A	C3'-O3'	-11.58	1.24	1.42
2	J	232	A	C3'-O3'	-11.58	1.24	1.42
2	J	273	A	C3'-O3'	-11.58	1.24	1.42
4	L	529	U	C3'-O3'	-11.58	1.24	1.42
4	L	668	U	C3'-O3'	-11.58	1.24	1.42
5	M	463	U	C3'-O3'	-11.58	1.24	1.42
5	M	529	U	C3'-O3'	-11.58	1.24	1.42
5	M	544	U	C3'-O3'	-11.58	1.24	1.42
5	M	549	U	C3'-O3'	-11.58	1.24	1.42
6	N	335	U	C3'-O3'	-11.58	1.24	1.42
6	N	507	U	C3'-O3'	-11.58	1.24	1.42
5	M	313	U	C3'-O3'	-11.58	1.24	1.42
5	M	419	U	C3'-O3'	-11.58	1.24	1.42
5	M	441	U	C3'-O3'	-11.58	1.24	1.42
5	M	536	U	C3'-O3'	-11.58	1.24	1.42
6	N	390	U	C3'-O3'	-11.58	1.24	1.42
6	N	478	U	C3'-O3'	-11.58	1.24	1.42
6	N	483	U	C3'-O3'	-11.58	1.24	1.42
6	N	514	U	C3'-O3'	-11.58	1.24	1.42
2	J	31	A	C3'-O3'	-11.57	1.24	1.42
2	J	119	A	C3'-O3'	-11.57	1.24	1.42
3	K	112	A	C3'-O3'	-11.57	1.24	1.42
3	K	173	A	C3'-O3'	-11.57	1.24	1.42
4	L	528	U	C3'-O3'	-11.57	1.24	1.42
6	N	353	U	C3'-O3'	-11.57	1.24	1.42
1	I	88	A	C3'-O3'	-11.57	1.24	1.42
1	I	311	A	C3'-O3'	-11.57	1.24	1.42
2	J	42	A	C3'-O3'	-11.57	1.24	1.42
2	J	81	A	C3'-O3'	-11.57	1.24	1.42
3	K	35	A	C3'-O3'	-11.57	1.24	1.42
3	K	129	A	C3'-O3'	-11.57	1.24	1.42
3	K	261	A	C3'-O3'	-11.57	1.24	1.42
4	L	678	U	C3'-O3'	-11.57	1.24	1.42
5	M	368	U	C3'-O3'	-11.57	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	492	U	C3'-O3'	-11.57	1.24	1.42
6	N	362	U	C3'-O3'	-11.57	1.24	1.42
6	N	480	U	C3'-O3'	-11.57	1.24	1.42
6	N	484	U	C3'-O3'	-11.57	1.24	1.42
6	N	499	U	C3'-O3'	-11.57	1.24	1.42
6	N	387	U	C3'-O3'	-11.57	1.24	1.42
6	N	522	U	C3'-O3'	-11.57	1.24	1.42
1	I	150	A	C3'-O3'	-11.57	1.24	1.42
1	I	206	A	C3'-O3'	-11.57	1.24	1.42
1	I	363	A	C3'-O3'	-11.57	1.24	1.42
2	J	111	A	C3'-O3'	-11.57	1.24	1.42
2	J	190	A	C3'-O3'	-11.57	1.24	1.42
3	K	167	A	C3'-O3'	-11.57	1.24	1.42
4	L	562	U	C3'-O3'	-11.57	1.24	1.42
5	M	474	U	C3'-O3'	-11.57	1.24	1.42
5	M	528	U	C3'-O3'	-11.57	1.24	1.42
6	N	283	U	C3'-O3'	-11.57	1.24	1.42
6	N	354	U	C3'-O3'	-11.57	1.24	1.42
6	N	505	U	C3'-O3'	-11.57	1.24	1.42
6	N	527	U	C3'-O3'	-11.57	1.24	1.42
1	I	1	A	C3'-O3'	-11.57	1.24	1.42
1	I	163	A	C3'-O3'	-11.57	1.24	1.42
2	J	94	A	C3'-O3'	-11.57	1.24	1.42
3	K	66	A	C3'-O3'	-11.57	1.24	1.42
4	L	449	U	C3'-O3'	-11.57	1.24	1.42
4	L	507	U	C3'-O3'	-11.57	1.24	1.42
5	M	396	U	C3'-O3'	-11.57	1.24	1.42
1	I	324	A	C3'-O3'	-11.57	1.24	1.42
2	J	262	A	C3'-O3'	-11.57	1.24	1.42
3	K	19	A	C3'-O3'	-11.57	1.24	1.42
5	M	512	U	C3'-O3'	-11.57	1.24	1.42
6	N	339	U	C3'-O3'	-11.57	1.24	1.42
6	N	428	U	C3'-O3'	-11.57	1.24	1.42
1	I	34	A	C3'-O3'	-11.57	1.24	1.42
1	I	139	A	C3'-O3'	-11.57	1.24	1.42
1	I	355	A	C3'-O3'	-11.57	1.24	1.42
2	J	11	A	C3'-O3'	-11.57	1.24	1.42
2	J	39	A	C3'-O3'	-11.57	1.24	1.42
2	J	57	A	C3'-O3'	-11.57	1.24	1.42
2	J	194	A	C3'-O3'	-11.57	1.24	1.42
2	J	212	A	C3'-O3'	-11.57	1.24	1.42
2	J	65	A	C3'-O3'	-11.57	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	268	A	C3'-O3'	-11.57	1.24	1.42
3	K	57	A	C3'-O3'	-11.57	1.24	1.42
6	N	342	U	C3'-O3'	-11.57	1.24	1.42
4	L	613	U	C3'-O3'	-11.57	1.24	1.42
5	M	412	U	C3'-O3'	-11.57	1.24	1.42
6	N	396	U	C3'-O3'	-11.57	1.24	1.42
6	N	417	U	C3'-O3'	-11.57	1.24	1.42
1	I	59	A	C3'-O3'	-11.56	1.24	1.42
1	I	162	A	C3'-O3'	-11.56	1.24	1.42
2	J	33	A	C3'-O3'	-11.56	1.24	1.42
2	J	165	A	C3'-O3'	-11.56	1.24	1.42
2	J	234	A	C3'-O3'	-11.56	1.24	1.42
3	K	184	A	C3'-O3'	-11.56	1.24	1.42
3	K	194	A	C3'-O3'	-11.56	1.24	1.42
3	K	205	A	C3'-O3'	-11.56	1.24	1.42
3	K	233	A	C3'-O3'	-11.56	1.24	1.42
4	L	669	U	C3'-O3'	-11.56	1.24	1.42
4	L	711	U	C3'-O3'	-11.56	1.24	1.42
4	L	713	U	C3'-O3'	-11.56	1.24	1.42
4	L	551	U	C3'-O3'	-11.56	1.24	1.42
5	M	364	U	C3'-O3'	-11.56	1.24	1.42
5	M	543	U	C3'-O3'	-11.56	1.24	1.42
6	N	336	U	C3'-O3'	-11.56	1.24	1.42
6	N	434	U	C3'-O3'	-11.56	1.24	1.42
6	N	449	U	C3'-O3'	-11.56	1.24	1.42
6	N	456	U	C3'-O3'	-11.56	1.24	1.42
6	N	529	U	C3'-O3'	-11.56	1.24	1.42
1	I	42	A	C3'-O3'	-11.56	1.24	1.42
1	I	153	A	C3'-O3'	-11.56	1.24	1.42
1	I	225	A	C3'-O3'	-11.56	1.24	1.42
2	J	238	A	C3'-O3'	-11.56	1.24	1.42
4	L	629	U	C3'-O3'	-11.56	1.24	1.42
5	M	320	U	C3'-O3'	-11.56	1.24	1.42
2	J	50	A	C3'-O3'	-11.56	1.24	1.42
3	K	28	A	C3'-O3'	-11.56	1.24	1.42
3	K	37	A	C3'-O3'	-11.56	1.24	1.42
3	K	54	A	C3'-O3'	-11.56	1.24	1.42
4	L	644	U	C3'-O3'	-11.56	1.24	1.42
4	L	735	U	C3'-O3'	-11.56	1.24	1.42
5	M	462	U	C3'-O3'	-11.56	1.24	1.42
5	M	485	U	C3'-O3'	-11.56	1.24	1.42
4	L	454	U	C3'-O3'	-11.56	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	630	U	C3'-O3'	-11.56	1.24	1.42
4	L	783	U	C3'-O3'	-11.56	1.24	1.42
5	M	417	U	C3'-O3'	-11.56	1.24	1.42
5	M	488	U	C3'-O3'	-11.56	1.24	1.42
6	N	329	U	C3'-O3'	-11.56	1.24	1.42
6	N	351	U	C3'-O3'	-11.56	1.24	1.42
6	N	493	U	C3'-O3'	-11.56	1.24	1.42
1	I	35	A	C3'-O3'	-11.56	1.24	1.42
2	J	63	A	C3'-O3'	-11.56	1.24	1.42
3	K	139	A	C3'-O3'	-11.56	1.24	1.42
5	M	526	U	C3'-O3'	-11.56	1.24	1.42
1	I	3	A	C3'-O3'	-11.56	1.24	1.42
1	I	89	A	C3'-O3'	-11.56	1.24	1.42
1	I	256	A	C3'-O3'	-11.56	1.24	1.42
2	J	12	A	C3'-O3'	-11.56	1.24	1.42
2	J	83	A	C3'-O3'	-11.56	1.24	1.42
2	J	157	A	C3'-O3'	-11.56	1.24	1.42
3	K	21	A	C3'-O3'	-11.56	1.24	1.42
3	K	96	A	C3'-O3'	-11.56	1.24	1.42
4	L	509	U	C3'-O3'	-11.56	1.24	1.42
5	M	537	U	C3'-O3'	-11.56	1.24	1.42
6	N	464	U	C3'-O3'	-11.56	1.24	1.42
4	L	429	U	C3'-O3'	-11.56	1.24	1.42
4	L	553	U	C3'-O3'	-11.56	1.24	1.42
4	L	622	U	C3'-O3'	-11.56	1.24	1.42
4	L	774	U	C3'-O3'	-11.56	1.24	1.42
4	L	793	U	C3'-O3'	-11.56	1.24	1.42
5	M	300	U	C3'-O3'	-11.56	1.24	1.42
5	M	408	U	C3'-O3'	-11.56	1.24	1.42
6	N	373	U	C3'-O3'	-11.56	1.24	1.42
1	I	44	A	C3'-O3'	-11.55	1.24	1.42
3	K	138	A	C3'-O3'	-11.56	1.24	1.42
6	N	520	U	C3'-O3'	-11.56	1.24	1.42
1	I	46	A	C3'-O3'	-11.55	1.24	1.42
1	I	72	A	C3'-O3'	-11.55	1.24	1.42
1	I	172	A	C3'-O3'	-11.56	1.24	1.42
6	N	453	U	C3'-O3'	-11.56	1.24	1.42
1	I	171	A	C3'-O3'	-11.55	1.24	1.42
1	I	190	A	C3'-O3'	-11.55	1.24	1.42
2	J	58	A	C3'-O3'	-11.56	1.24	1.42
2	J	249	A	C3'-O3'	-11.55	1.24	1.42
3	K	22	A	C3'-O3'	-11.56	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	499	U	C3'-O3'	-11.56	1.24	1.42
6	N	487	U	C3'-O3'	-11.55	1.24	1.42
2	J	1	A	C3'-O3'	-11.55	1.24	1.42
2	J	17	A	C3'-O3'	-11.55	1.24	1.42
2	J	20	A	C3'-O3'	-11.55	1.24	1.42
3	K	55	A	C3'-O3'	-11.55	1.24	1.42
3	K	70	A	C3'-O3'	-11.55	1.24	1.42
3	K	255	A	C3'-O3'	-11.55	1.24	1.42
4	L	612	U	C3'-O3'	-11.55	1.24	1.42
5	M	499	U	C3'-O3'	-11.55	1.24	1.42
2	J	177	A	C3'-O3'	-11.55	1.24	1.42
3	K	189	A	C3'-O3'	-11.55	1.24	1.42
3	K	222	A	C3'-O3'	-11.55	1.24	1.42
4	L	456	U	C3'-O3'	-11.55	1.24	1.42
4	L	640	U	C3'-O3'	-11.55	1.24	1.42
4	L	656	U	C3'-O3'	-11.55	1.24	1.42
4	L	679	U	C3'-O3'	-11.55	1.24	1.42
4	L	684	U	C3'-O3'	-11.55	1.24	1.42
5	M	440	U	C3'-O3'	-11.55	1.24	1.42
6	N	331	U	C3'-O3'	-11.55	1.24	1.42
6	N	521	U	C3'-O3'	-11.55	1.24	1.42
6	N	524	U	C3'-O3'	-11.55	1.24	1.42
1	I	13	A	C3'-O3'	-11.55	1.24	1.42
1	I	19	A	C3'-O3'	-11.55	1.24	1.42
1	I	92	A	C3'-O3'	-11.55	1.24	1.42
1	I	102	A	C3'-O3'	-11.55	1.24	1.42
1	I	127	A	C3'-O3'	-11.55	1.24	1.42
1	I	138	A	C3'-O3'	-11.55	1.24	1.42
1	I	174	A	C3'-O3'	-11.55	1.24	1.42
1	I	335	A	C3'-O3'	-11.55	1.24	1.42
2	J	18	A	C3'-O3'	-11.55	1.24	1.42
2	J	185	A	C3'-O3'	-11.55	1.24	1.42
3	K	32	A	C3'-O3'	-11.55	1.24	1.42
3	K	127	A	C3'-O3'	-11.55	1.24	1.42
3	K	133	A	C3'-O3'	-11.55	1.24	1.42
4	L	440	U	C3'-O3'	-11.55	1.24	1.42
4	L	624	U	C3'-O3'	-11.55	1.24	1.42
3	K	145	A	C3'-O3'	-11.55	1.24	1.42
4	L	626	U	C3'-O3'	-11.55	1.24	1.42
4	L	727	U	C3'-O3'	-11.55	1.24	1.42
4	L	648	U	C3'-O3'	-11.55	1.24	1.42
5	M	332	U	C3'-O3'	-11.55	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	375	U	C3'-O3'	-11.55	1.24	1.42
5	M	545	U	C3'-O3'	-11.55	1.24	1.42
6	N	309	U	C3'-O3'	-11.55	1.24	1.42
6	N	333	U	C3'-O3'	-11.55	1.24	1.42
6	N	472	U	C3'-O3'	-11.55	1.24	1.42
6	N	485	U	C3'-O3'	-11.55	1.24	1.42
1	I	24	A	C3'-O3'	-11.55	1.24	1.42
1	I	29	A	C3'-O3'	-11.55	1.24	1.42
1	I	154	A	C3'-O3'	-11.55	1.24	1.42
2	J	110	A	C3'-O3'	-11.55	1.24	1.42
4	L	721	U	C3'-O3'	-11.55	1.24	1.42
4	L	803	U	C3'-O3'	-11.55	1.24	1.42
1	I	213	A	C3'-O3'	-11.55	1.24	1.42
2	J	264	A	C3'-O3'	-11.55	1.24	1.42
3	K	106	A	C3'-O3'	-11.55	1.24	1.42
3	K	134	A	C3'-O3'	-11.55	1.24	1.42
3	K	156	A	C3'-O3'	-11.55	1.24	1.42
3	K	200	A	C3'-O3'	-11.55	1.24	1.42
4	L	520	U	C3'-O3'	-11.55	1.24	1.42
4	L	734	U	C3'-O3'	-11.55	1.24	1.42
5	M	311	U	C3'-O3'	-11.55	1.24	1.42
6	N	502	U	C3'-O3'	-11.55	1.24	1.42
6	N	519	U	C3'-O3'	-11.55	1.24	1.42
1	I	80	A	C3'-O3'	-11.54	1.24	1.42
1	I	146	A	C3'-O3'	-11.55	1.24	1.42
1	I	211	A	C3'-O3'	-11.54	1.24	1.42
2	J	126	A	C3'-O3'	-11.55	1.24	1.42
4	L	531	U	C3'-O3'	-11.55	1.24	1.42
4	L	670	U	C3'-O3'	-11.55	1.24	1.42
5	M	525	U	C3'-O3'	-11.55	1.24	1.42
2	J	34	A	C3'-O3'	-11.54	1.24	1.42
2	J	77	A	C3'-O3'	-11.54	1.24	1.42
2	J	97	A	C3'-O3'	-11.54	1.24	1.42
3	K	13	A	C3'-O3'	-11.54	1.24	1.42
3	K	111	A	C3'-O3'	-11.54	1.24	1.42
4	L	647	U	C3'-O3'	-11.54	1.24	1.42
5	M	521	U	C3'-O3'	-11.55	1.24	1.42
5	M	365	U	C3'-O3'	-11.54	1.24	1.42
5	M	502	U	C3'-O3'	-11.54	1.24	1.42
5	M	539	U	C3'-O3'	-11.54	1.24	1.42
6	N	379	U	C3'-O3'	-11.54	1.24	1.42
6	N	440	U	C3'-O3'	-11.54	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	481	U	C3'-O3'	-11.54	1.24	1.42
1	I	47	A	C3'-O3'	-11.54	1.24	1.42
1	I	116	A	C3'-O3'	-11.54	1.24	1.42
1	I	173	A	C3'-O3'	-11.54	1.24	1.42
2	J	105	A	C3'-O3'	-11.54	1.24	1.42
1	I	169	A	C3'-O3'	-11.54	1.24	1.42
2	J	102	A	C3'-O3'	-11.54	1.24	1.42
2	J	229	A	C3'-O3'	-11.54	1.24	1.42
2	J	133	A	C3'-O3'	-11.54	1.24	1.42
2	J	148	A	C3'-O3'	-11.54	1.24	1.42
2	J	154	A	C3'-O3'	-11.54	1.24	1.42
3	K	58	A	C3'-O3'	-11.54	1.24	1.42
3	K	161	A	C3'-O3'	-11.54	1.24	1.42
4	L	627	U	C3'-O3'	-11.54	1.24	1.42
5	M	291	U	C3'-O3'	-11.54	1.24	1.42
5	M	342	U	C3'-O3'	-11.54	1.24	1.42
5	M	495	U	C3'-O3'	-11.54	1.24	1.42
6	N	287	U	C3'-O3'	-11.54	1.24	1.42
1	I	180	A	C3'-O3'	-11.54	1.24	1.42
1	I	276	A	C3'-O3'	-11.54	1.24	1.42
2	J	2	A	C3'-O3'	-11.54	1.24	1.42
2	J	16	A	C3'-O3'	-11.54	1.24	1.42
4	L	628	U	C3'-O3'	-11.54	1.24	1.42
4	L	652	U	C3'-O3'	-11.54	1.24	1.42
5	M	322	U	C3'-O3'	-11.54	1.24	1.42
5	M	473	U	C3'-O3'	-11.54	1.24	1.42
6	N	322	U	C3'-O3'	-11.54	1.24	1.42
6	N	412	U	C3'-O3'	-11.54	1.24	1.42
1	I	48	A	C3'-O3'	-11.54	1.24	1.42
1	I	99	A	C3'-O3'	-11.54	1.24	1.42
1	I	251	A	C3'-O3'	-11.54	1.24	1.42
2	J	9	A	C3'-O3'	-11.54	1.24	1.42
2	J	171	A	C3'-O3'	-11.54	1.24	1.42
4	L	504	U	C3'-O3'	-11.54	1.24	1.42
4	L	541	U	C3'-O3'	-11.54	1.24	1.42
4	L	659	U	C3'-O3'	-11.54	1.24	1.42
4	L	763	U	C3'-O3'	-11.54	1.24	1.42
5	M	489	U	C3'-O3'	-11.54	1.24	1.42
5	M	530	U	C3'-O3'	-11.54	1.24	1.42
5	M	548	U	C3'-O3'	-11.54	1.24	1.42
6	N	492	U	C3'-O3'	-11.54	1.24	1.42
1	I	87	A	C3'-O3'	-11.54	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	208	A	C3'-O3'	-11.54	1.24	1.42
5	M	459	U	C3'-O3'	-11.54	1.24	1.42
1	I	20	A	C3'-O3'	-11.53	1.24	1.42
1	I	94	A	C3'-O3'	-11.54	1.24	1.42
1	I	189	A	C3'-O3'	-11.53	1.24	1.42
2	J	28	A	C3'-O3'	-11.54	1.24	1.42
2	J	43	A	C3'-O3'	-11.54	1.24	1.42
2	J	103	A	C3'-O3'	-11.54	1.24	1.42
2	J	191	A	C3'-O3'	-11.54	1.24	1.42
2	J	245	A	C3'-O3'	-11.54	1.24	1.42
2	J	226	A	C3'-O3'	-11.53	1.24	1.42
2	J	258	A	C3'-O3'	-11.54	1.24	1.42
3	K	26	A	C3'-O3'	-11.54	1.24	1.42
3	K	59	A	C3'-O3'	-11.54	1.24	1.42
3	K	117	A	C3'-O3'	-11.54	1.24	1.42
4	L	615	U	C3'-O3'	-11.54	1.24	1.42
4	L	800	U	C3'-O3'	-11.54	1.24	1.42
3	K	116	A	C3'-O3'	-11.53	1.24	1.42
4	L	546	U	C3'-O3'	-11.53	1.24	1.42
4	L	667	U	C3'-O3'	-11.54	1.24	1.42
4	L	789	U	C3'-O3'	-11.53	1.24	1.42
4	L	796	U	C3'-O3'	-11.54	1.24	1.42
5	M	355	U	C3'-O3'	-11.54	1.24	1.42
6	N	427	U	C3'-O3'	-11.54	1.24	1.42
5	M	422	U	C3'-O3'	-11.53	1.24	1.42
5	M	448	U	C3'-O3'	-11.53	1.24	1.42
5	M	451	U	C3'-O3'	-11.53	1.24	1.42
6	N	429	U	C3'-O3'	-11.54	1.24	1.42
6	N	450	U	C3'-O3'	-11.54	1.24	1.42
1	I	39	A	C3'-O3'	-11.53	1.24	1.42
1	I	51	A	C3'-O3'	-11.53	1.24	1.42
2	J	68	A	C3'-O3'	-11.53	1.24	1.42
4	L	471	U	C3'-O3'	-11.53	1.24	1.42
4	L	552	U	C3'-O3'	-11.53	1.24	1.42
4	L	766	U	C3'-O3'	-11.53	1.24	1.42
1	I	83	A	C3'-O3'	-11.53	1.24	1.42
1	I	114	A	C3'-O3'	-11.53	1.24	1.42
1	I	329	A	C3'-O3'	-11.53	1.24	1.42
2	J	32	A	C3'-O3'	-11.53	1.24	1.42
2	J	80	A	C3'-O3'	-11.53	1.24	1.42
2	J	121	A	C3'-O3'	-11.53	1.24	1.42
4	L	585	U	C3'-O3'	-11.53	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	220	A	C3'-O3'	-11.53	1.24	1.42
4	L	444	U	C3'-O3'	-11.53	1.24	1.42
6	N	307	U	C3'-O3'	-11.53	1.24	1.42
6	N	498	U	C3'-O3'	-11.53	1.24	1.42
6	N	506	U	C3'-O3'	-11.53	1.24	1.42
6	N	510	U	C3'-O3'	-11.53	1.24	1.42
6	N	512	U	C3'-O3'	-11.53	1.24	1.42
1	I	4	A	C3'-O3'	-11.53	1.24	1.42
1	I	100	A	C3'-O3'	-11.53	1.24	1.42
1	I	157	A	C3'-O3'	-11.53	1.24	1.42
1	I	258	A	C3'-O3'	-11.53	1.24	1.42
2	J	70	A	C3'-O3'	-11.53	1.24	1.42
2	J	143	A	C3'-O3'	-11.53	1.24	1.42
3	K	77	A	O3'-P	11.53	1.78	1.61
1	I	178	A	C3'-O3'	-11.53	1.24	1.42
2	J	26	A	C3'-O3'	-11.53	1.24	1.42
3	K	40	A	C3'-O3'	-11.53	1.24	1.42
3	K	92	A	C3'-O3'	-11.53	1.24	1.42
3	K	123	A	C3'-O3'	-11.53	1.24	1.42
3	K	244	A	C3'-O3'	-11.53	1.24	1.42
4	L	645	U	C3'-O3'	-11.53	1.24	1.42
4	L	812	U	C3'-O3'	-11.53	1.24	1.42
5	M	282	U	C3'-O3'	-11.53	1.24	1.42
6	N	508	U	C3'-O3'	-11.53	1.24	1.42
1	I	136	A	C3'-O3'	-11.53	1.24	1.42
1	I	155	A	C3'-O3'	-11.53	1.24	1.42
1	I	165	A	C3'-O3'	-11.53	1.24	1.42
4	L	819	U	C3'-O3'	-11.53	1.24	1.42
6	N	395	U	C3'-O3'	-11.53	1.24	1.42
6	N	407	U	C3'-O3'	-11.53	1.24	1.42
1	I	203	A	C3'-O3'	-11.53	1.24	1.42
1	I	300	A	C3'-O3'	-11.53	1.24	1.42
2	J	51	A	C3'-O3'	-11.53	1.24	1.42
2	J	99	A	C3'-O3'	-11.53	1.24	1.42
2	J	176	A	C3'-O3'	-11.53	1.24	1.42
2	J	182	A	C3'-O3'	-11.53	1.24	1.42
3	K	172	A	C3'-O3'	-11.53	1.24	1.42
4	L	654	U	C3'-O3'	-11.53	1.24	1.42
4	L	691	U	C3'-O3'	-11.53	1.24	1.42
5	M	542	U	C3'-O3'	-11.53	1.24	1.42
4	L	495	U	C3'-O3'	-11.53	1.24	1.42
5	M	324	U	C3'-O3'	-11.53	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	18	A	C3'-O3'	-11.52	1.24	1.42
1	I	273	A	C3'-O3'	-11.52	1.24	1.42
1	I	313	A	C3'-O3'	-11.52	1.24	1.42
2	J	114	A	C3'-O3'	-11.52	1.24	1.42
2	J	161	A	C3'-O3'	-11.52	1.24	1.42
4	L	618	U	C3'-O3'	-11.52	1.24	1.42
4	L	680	U	C3'-O3'	-11.52	1.24	1.42
5	M	411	U	C3'-O3'	-11.52	1.24	1.42
6	N	438	U	C3'-O3'	-11.52	1.24	1.42
2	J	23	A	C3'-O3'	-11.52	1.24	1.42
2	J	49	A	C3'-O3'	-11.52	1.24	1.42
2	J	193	A	C3'-O3'	-11.52	1.24	1.42
2	J	198	A	C3'-O3'	-11.52	1.24	1.42
3	K	24	A	C3'-O3'	-11.52	1.24	1.42
3	K	31	A	C3'-O3'	-11.52	1.24	1.42
3	K	47	A	C3'-O3'	-11.52	1.24	1.42
3	K	140	A	C3'-O3'	-11.52	1.24	1.42
6	N	267	U	C3'-O3'	-11.52	1.24	1.42
3	K	149	A	C3'-O3'	-11.52	1.24	1.42
3	K	150	A	C3'-O3'	-11.52	1.24	1.42
3	K	183	A	C3'-O3'	-11.52	1.24	1.42
4	L	579	U	C3'-O3'	-11.52	1.24	1.42
4	L	634	U	C3'-O3'	-11.52	1.24	1.42
4	L	704	U	C3'-O3'	-11.52	1.24	1.42
4	L	752	U	C3'-O3'	-11.52	1.24	1.42
4	L	787	U	C3'-O3'	-11.52	1.24	1.42
5	M	437	U	C3'-O3'	-11.52	1.24	1.42
5	M	550	U	C3'-O3'	-11.52	1.24	1.42
6	N	384	U	C3'-O3'	-11.52	1.24	1.42
6	N	467	U	C3'-O3'	-11.52	1.24	1.42
6	N	528	U	C3'-O3'	-11.52	1.24	1.42
4	L	804	U	C3'-O3'	-11.52	1.24	1.42
6	N	305	U	C3'-O3'	-11.52	1.24	1.42
1	I	301	A	C3'-O3'	-11.52	1.24	1.42
1	I	373	A	C3'-O3'	-11.52	1.24	1.42
5	M	401	U	C3'-O3'	-11.52	1.24	1.42
1	I	70	A	C3'-O3'	-11.52	1.24	1.42
1	I	187	A	C3'-O3'	-11.52	1.24	1.42
3	K	100	A	C3'-O3'	-11.52	1.24	1.42
5	M	302	U	C3'-O3'	-11.52	1.24	1.42
6	N	470	U	C3'-O3'	-11.52	1.24	1.42
1	I	191	A	C3'-O3'	-11.52	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	240	A	C3'-O3'	-11.52	1.24	1.42
1	I	277	A	C3'-O3'	-11.52	1.24	1.42
2	J	37	A	C3'-O3'	-11.52	1.24	1.42
3	K	157	A	C3'-O3'	-11.52	1.24	1.42
4	L	423	U	C3'-O3'	-11.52	1.24	1.42
4	L	575	U	C3'-O3'	-11.52	1.24	1.42
4	L	650	U	C3'-O3'	-11.52	1.24	1.42
4	L	745	U	C3'-O3'	-11.52	1.24	1.42
4	L	788	U	C3'-O3'	-11.52	1.24	1.42
5	M	289	U	C3'-O3'	-11.52	1.24	1.42
5	M	363	U	C3'-O3'	-11.52	1.24	1.42
5	M	532	U	C3'-O3'	-11.52	1.24	1.42
6	N	401	U	C3'-O3'	-11.52	1.24	1.42
1	I	41	A	C3'-O3'	-11.52	1.24	1.42
1	I	77	A	C3'-O3'	-11.52	1.24	1.42
1	I	161	A	C3'-O3'	-11.52	1.24	1.42
1	I	287	A	C3'-O3'	-11.52	1.24	1.42
1	I	194	A	C3'-O3'	-11.52	1.24	1.42
2	J	209	A	C3'-O3'	-11.52	1.24	1.42
3	K	46	A	C3'-O3'	-11.52	1.24	1.42
3	K	103	A	C3'-O3'	-11.52	1.24	1.42
3	K	178	A	C3'-O3'	-11.52	1.24	1.42
4	L	443	U	C3'-O3'	-11.52	1.24	1.42
4	L	503	U	C3'-O3'	-11.52	1.24	1.42
4	L	525	U	C3'-O3'	-11.52	1.24	1.42
4	L	778	U	C3'-O3'	-11.52	1.24	1.42
5	M	433	U	C3'-O3'	-11.52	1.24	1.42
5	M	486	U	C3'-O3'	-11.52	1.24	1.42
5	M	487	U	C3'-O3'	-11.52	1.24	1.42
6	N	285	U	C3'-O3'	-11.52	1.24	1.42
6	N	288	U	C3'-O3'	-11.52	1.24	1.42
6	N	318	U	C3'-O3'	-11.52	1.24	1.42
2	J	223	A	C3'-O3'	-11.51	1.24	1.42
3	K	89	A	C3'-O3'	-11.51	1.24	1.42
4	L	511	U	C3'-O3'	-11.51	1.24	1.42
5	M	385	U	C3'-O3'	-11.51	1.24	1.42
6	N	338	U	C3'-O3'	-11.51	1.24	1.42
1	I	43	A	C3'-O3'	-11.51	1.24	1.42
1	I	126	A	C3'-O3'	-11.51	1.24	1.42
1	I	338	A	O3'-P	-11.51	1.43	1.61
2	J	14	A	C3'-O3'	-11.51	1.24	1.42
2	J	257	A	C3'-O3'	-11.51	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	114	A	C3'-O3'	-11.51	1.24	1.42
3	K	265	A	C3'-O3'	-11.51	1.24	1.42
5	M	547	U	C3'-O3'	-11.51	1.24	1.42
6	N	482	U	C3'-O3'	-11.51	1.24	1.42
4	L	705	U	C3'-O3'	-11.51	1.24	1.42
4	L	716	U	C3'-O3'	-11.51	1.24	1.42
4	L	794	U	C3'-O3'	-11.51	1.24	1.42
1	I	152	A	C3'-O3'	-11.51	1.24	1.42
2	J	163	A	C3'-O3'	-11.51	1.24	1.42
1	I	37	A	C3'-O3'	-11.51	1.24	1.42
1	I	380	A	C3'-O3'	-11.51	1.24	1.42
2	J	44	A	O3'-P	-11.51	1.43	1.61
2	J	56	A	C3'-O3'	-11.51	1.24	1.42
2	J	106	A	C3'-O3'	-11.51	1.24	1.42
3	K	155	A	C3'-O3'	-11.51	1.24	1.42
3	K	27	A	C3'-O3'	-11.51	1.24	1.42
3	K	211	A	C3'-O3'	-11.51	1.24	1.42
3	K	256	A	C3'-O3'	-11.51	1.24	1.42
5	M	466	U	C3'-O3'	-11.51	1.24	1.42
6	N	403	U	C3'-O3'	-11.51	1.24	1.42
1	I	33	A	C3'-O3'	-11.51	1.24	1.42
1	I	82	A	C3'-O3'	-11.51	1.24	1.42
1	I	86	A	C3'-O3'	-11.51	1.24	1.42
2	J	215	A	C3'-O3'	-11.51	1.24	1.42
3	K	36	A	C3'-O3'	-11.51	1.24	1.42
3	K	101	A	C3'-O3'	-11.51	1.24	1.42
4	L	617	U	C3'-O3'	-11.51	1.24	1.42
3	K	2	A	C3'-O3'	-11.51	1.24	1.42
3	K	4	A	C3'-O3'	-11.51	1.24	1.42
3	K	135	A	C3'-O3'	-11.51	1.24	1.42
4	L	470	U	C3'-O3'	-11.51	1.24	1.42
3	K	195	A	C3'-O3'	-11.51	1.24	1.42
4	L	460	U	C3'-O3'	-11.51	1.24	1.42
4	L	487	U	C3'-O3'	-11.51	1.24	1.42
4	L	785	U	C3'-O3'	-11.51	1.24	1.42
5	M	354	U	C3'-O3'	-11.51	1.24	1.42
6	N	360	U	C3'-O3'	-11.51	1.24	1.42
6	N	517	U	C3'-O3'	-11.51	1.24	1.42
1	I	244	A	C3'-O3'	-11.50	1.24	1.42
1	I	346	A	C3'-O3'	-11.50	1.24	1.42
2	J	64	A	C3'-O3'	-11.50	1.24	1.42
2	J	93	A	C3'-O3'	-11.50	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	5	A	C3'-O3'	-11.50	1.24	1.42
3	K	119	A	C3'-O3'	-11.50	1.24	1.42
5	M	519	U	C3'-O3'	-11.50	1.24	1.42
1	I	257	A	C3'-O3'	-11.50	1.24	1.42
2	J	127	A	C3'-O3'	-11.50	1.24	1.42
6	N	445	U	C3'-O3'	-11.50	1.24	1.42
2	J	132	A	C3'-O3'	-11.50	1.24	1.42
2	J	270	A	C3'-O3'	-11.50	1.24	1.42
3	K	38	A	C3'-O3'	-11.50	1.24	1.42
3	K	232	A	C3'-O3'	-11.50	1.24	1.42
4	L	455	U	C3'-O3'	-11.50	1.24	1.42
4	L	646	U	C3'-O3'	-11.50	1.24	1.42
6	N	425	U	C3'-O3'	-11.50	1.24	1.42
4	L	746	U	C3'-O3'	-11.50	1.24	1.42
6	N	300	U	C3'-O3'	-11.50	1.24	1.42
6	N	316	U	C3'-O3'	-11.50	1.24	1.42
6	N	465	U	C3'-O3'	-11.50	1.24	1.42
1	I	32	A	C3'-O3'	-11.50	1.24	1.42
1	I	53	A	C3'-O3'	-11.50	1.24	1.42
2	J	88	A	C3'-O3'	-11.50	1.24	1.42
1	I	63	A	C3'-O3'	-11.50	1.25	1.42
1	I	96	A	C3'-O3'	-11.50	1.25	1.42
1	I	132	A	C3'-O3'	-11.50	1.24	1.42
2	J	95	A	C3'-O3'	-11.50	1.24	1.42
2	J	166	A	C3'-O3'	-11.50	1.24	1.42
2	J	116	A	C3'-O3'	-11.50	1.25	1.42
2	J	204	A	C3'-O3'	-11.50	1.24	1.42
2	J	269	A	C3'-O3'	-11.50	1.25	1.42
3	K	16	A	C3'-O3'	-11.50	1.25	1.42
3	K	56	A	C3'-O3'	-11.50	1.24	1.42
3	K	69	A	C3'-O3'	-11.50	1.24	1.42
3	K	90	A	C3'-O3'	-11.50	1.24	1.42
3	K	190	A	C3'-O3'	-11.50	1.24	1.42
4	L	601	U	C3'-O3'	-11.50	1.24	1.42
4	L	772	U	C3'-O3'	-11.50	1.24	1.42
4	L	810	U	C3'-O3'	-11.50	1.24	1.42
4	L	419	U	C3'-O3'	-11.50	1.25	1.42
4	L	510	U	C3'-O3'	-11.50	1.25	1.42
4	L	657	U	C3'-O3'	-11.50	1.25	1.42
4	L	690	U	C3'-O3'	-11.50	1.25	1.42
6	N	306	U	C3'-O3'	-11.50	1.24	1.42
6	N	423	U	C3'-O3'	-11.50	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	439	U	C3'-O3'	-11.50	1.24	1.42
6	N	469	U	C3'-O3'	-11.50	1.25	1.42
1	I	109	A	C3'-O3'	-11.50	1.25	1.42
1	I	141	A	C3'-O3'	-11.50	1.25	1.42
4	L	625	U	C3'-O3'	-11.50	1.25	1.42
5	M	280	U	C3'-O3'	-11.50	1.25	1.42
1	I	218	A	C3'-O3'	-11.50	1.25	1.42
1	I	291	A	C3'-O3'	-11.50	1.25	1.42
1	I	406	A	C3'-O3'	-11.50	1.25	1.42
2	J	40	A	C3'-O3'	-11.50	1.25	1.42
2	J	240	A	C3'-O3'	-11.50	1.25	1.42
3	K	141	A	C3'-O3'	-11.50	1.25	1.42
4	L	481	U	C3'-O3'	-11.50	1.25	1.42
4	L	719	U	C3'-O3'	-11.50	1.25	1.42
4	L	736	U	C3'-O3'	-11.50	1.25	1.42
4	L	771	U	C3'-O3'	-11.50	1.25	1.42
4	L	808	U	C3'-O3'	-11.50	1.25	1.42
6	N	494	U	C3'-O3'	-11.50	1.25	1.42
5	M	430	U	C3'-O3'	-11.50	1.25	1.42
5	M	510	U	C3'-O3'	-11.50	1.25	1.42
6	N	321	U	C3'-O3'	-11.50	1.25	1.42
6	N	460	U	C3'-O3'	-11.50	1.25	1.42
1	I	247	A	C3'-O3'	-11.49	1.25	1.42
2	J	35	A	C3'-O3'	-11.49	1.25	1.42
3	K	9	A	C3'-O3'	-11.49	1.25	1.42
1	I	403	A	C3'-O3'	-11.49	1.25	1.42
2	J	45	A	C3'-O3'	-11.49	1.25	1.42
2	J	61	A	C3'-O3'	-11.49	1.25	1.42
2	J	115	A	C3'-O3'	-11.49	1.25	1.42
2	J	130	A	C3'-O3'	-11.49	1.25	1.42
2	J	174	A	C3'-O3'	-11.49	1.25	1.42
3	K	48	A	C3'-O3'	-11.49	1.25	1.42
3	K	243	A	C3'-O3'	-11.49	1.25	1.42
4	L	438	U	C3'-O3'	-11.49	1.25	1.42
4	L	581	U	C3'-O3'	-11.49	1.25	1.42
4	L	672	U	C3'-O3'	-11.49	1.25	1.42
4	L	717	U	C3'-O3'	-11.49	1.25	1.42
5	M	415	U	C3'-O3'	-11.49	1.25	1.42
5	M	426	U	C3'-O3'	-11.49	1.25	1.42
5	M	477	U	C3'-O3'	-11.49	1.25	1.42
6	N	349	U	C3'-O3'	-11.49	1.25	1.42
6	N	459	U	C3'-O3'	-11.49	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	478	U	C3'-O3'	-11.49	1.25	1.42
4	L	768	U	C3'-O3'	-11.49	1.25	1.42
4	L	782	U	C3'-O3'	-11.49	1.25	1.42
5	M	407	U	C3'-O3'	-11.49	1.25	1.42
6	N	272	U	C3'-O3'	-11.49	1.25	1.42
6	N	498	U	O3'-P	11.49	1.78	1.61
1	I	319	A	C3'-O3'	-11.49	1.25	1.42
1	I	74	A	C3'-O3'	-11.49	1.25	1.42
1	I	75	A	C3'-O3'	-11.49	1.25	1.42
1	I	143	A	C3'-O3'	-11.49	1.25	1.42
3	K	130	A	C3'-O3'	-11.49	1.25	1.42
3	K	212	A	C3'-O3'	-11.49	1.25	1.42
2	J	5	A	C3'-O3'	-11.49	1.25	1.42
3	K	75	A	C3'-O3'	-11.49	1.25	1.42
4	L	488	U	C3'-O3'	-11.49	1.25	1.42
6	N	277	U	C3'-O3'	-11.49	1.25	1.42
6	N	311	U	C3'-O3'	-11.49	1.25	1.42
6	N	526	U	C3'-O3'	-11.49	1.25	1.42
1	I	131	A	C3'-O3'	-11.49	1.25	1.42
2	J	73	A	C3'-O3'	-11.49	1.25	1.42
3	K	20	A	C3'-O3'	-11.49	1.25	1.42
3	K	80	A	C3'-O3'	-11.49	1.25	1.42
3	K	254	A	C3'-O3'	-11.49	1.25	1.42
4	L	432	U	C3'-O3'	-11.49	1.25	1.42
4	L	476	U	C3'-O3'	-11.49	1.25	1.42
4	L	614	U	C3'-O3'	-11.49	1.25	1.42
5	M	398	U	C3'-O3'	-11.49	1.25	1.42
4	L	744	U	C3'-O3'	-11.49	1.25	1.42
5	M	350	U	O3'-P	-11.49	1.44	1.61
5	M	517	U	C3'-O3'	-11.49	1.25	1.42
6	N	515	U	C3'-O3'	-11.49	1.25	1.42
1	I	167	A	C3'-O3'	-11.48	1.25	1.42
1	I	229	A	C3'-O3'	-11.48	1.25	1.42
2	J	84	A	C3'-O3'	-11.48	1.25	1.42
3	K	12	A	C3'-O3'	-11.48	1.25	1.42
3	K	179	A	C3'-O3'	-11.48	1.25	1.42
3	K	221	A	C3'-O3'	-11.48	1.25	1.42
3	K	234	A	C3'-O3'	-11.48	1.25	1.42
5	M	374	U	C3'-O3'	-11.48	1.25	1.42
5	M	551	U	C3'-O3'	-11.48	1.25	1.42
6	N	276	U	C3'-O3'	-11.48	1.25	1.42
4	L	706	U	C3'-O3'	-11.48	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	420	U	C3'-O3'	-11.48	1.25	1.42
6	N	299	U	C3'-O3'	-11.48	1.25	1.42
6	N	471	U	C3'-O3'	-11.48	1.25	1.42
1	I	207	A	C3'-O3'	-11.48	1.25	1.42
1	I	64	A	C3'-O3'	-11.48	1.25	1.42
1	I	66	A	C3'-O3'	-11.48	1.25	1.42
1	I	214	A	C3'-O3'	-11.48	1.25	1.42
6	N	406	U	C3'-O3'	-11.48	1.25	1.42
1	I	290	A	C3'-O3'	-11.48	1.25	1.42
2	J	62	A	C3'-O3'	-11.48	1.25	1.42
3	K	15	A	C3'-O3'	-11.48	1.25	1.42
3	K	67	A	C3'-O3'	-11.48	1.25	1.42
4	L	548	U	C3'-O3'	-11.48	1.25	1.42
4	L	798	U	C3'-O3'	-11.48	1.25	1.42
4	L	812	U	O3'-P	-11.48	1.44	1.61
6	N	410	U	C3'-O3'	-11.48	1.25	1.42
6	N	447	U	C3'-O3'	-11.48	1.25	1.42
1	I	31	A	C3'-O3'	-11.48	1.25	1.42
3	K	124	A	C3'-O3'	-11.48	1.25	1.42
1	I	40	A	C3'-O3'	-11.48	1.25	1.42
1	I	196	A	C3'-O3'	-11.48	1.25	1.42
1	I	412	A	C3'-O3'	-11.48	1.25	1.42
2	J	27	A	C3'-O3'	-11.48	1.25	1.42
3	K	29	A	C3'-O3'	-11.48	1.25	1.42
3	K	210	A	C3'-O3'	-11.48	1.25	1.42
4	L	448	U	C3'-O3'	-11.48	1.25	1.42
4	L	557	U	C3'-O3'	-11.48	1.25	1.42
4	L	661	U	C3'-O3'	-11.48	1.25	1.42
4	L	744	U	O3'-P	-11.48	1.44	1.61
4	L	791	U	C3'-O3'	-11.48	1.25	1.42
5	M	444	U	C3'-O3'	-11.48	1.25	1.42
6	N	414	U	C3'-O3'	-11.48	1.25	1.42
1	I	202	A	C3'-O3'	-11.47	1.25	1.42
3	K	169	A	C3'-O3'	-11.47	1.25	1.42
3	K	223	A	C3'-O3'	-11.47	1.25	1.42
5	M	515	U	C3'-O3'	-11.47	1.25	1.42
6	N	511	U	C3'-O3'	-11.47	1.25	1.42
1	I	237	A	C3'-O3'	-11.47	1.25	1.42
2	J	122	A	C3'-O3'	-11.47	1.25	1.42
2	J	231	A	C3'-O3'	-11.47	1.25	1.42
3	K	43	A	C3'-O3'	-11.47	1.25	1.42
4	L	730	U	C3'-O3'	-11.47	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	319	U	C3'-O3'	-11.47	1.25	1.42
6	N	278	U	C3'-O3'	-11.47	1.25	1.42
6	N	388	U	C3'-O3'	-11.47	1.25	1.42
1	I	186	A	C3'-O3'	-11.47	1.25	1.42
4	L	592	U	C3'-O3'	-11.47	1.25	1.42
5	M	472	U	O3'-P	-11.47	1.44	1.61
1	I	197	A	C3'-O3'	-11.47	1.25	1.42
1	I	259	A	C3'-O3'	-11.47	1.25	1.42
1	I	368	A	C3'-O3'	-11.47	1.25	1.42
2	J	7	A	C3'-O3'	-11.47	1.25	1.42
2	J	72	A	C3'-O3'	-11.47	1.25	1.42
2	J	181	A	C3'-O3'	-11.47	1.25	1.42
2	J	242	A	C3'-O3'	-11.47	1.25	1.42
3	K	144	A	C3'-O3'	-11.47	1.25	1.42
6	N	477	U	C3'-O3'	-11.47	1.25	1.42
4	L	728	U	C3'-O3'	-11.47	1.25	1.42
4	L	797	U	C3'-O3'	-11.47	1.25	1.42
4	L	801	U	C3'-O3'	-11.47	1.25	1.42
5	M	531	U	C3'-O3'	-11.47	1.25	1.42
6	N	328	U	C3'-O3'	-11.47	1.25	1.42
6	N	466	U	C3'-O3'	-11.47	1.25	1.42
1	I	9	A	C3'-O3'	-11.47	1.25	1.42
1	I	105	A	C3'-O3'	-11.47	1.25	1.42
4	L	606	U	C3'-O3'	-11.47	1.25	1.42
6	N	332	U	C3'-O3'	-11.47	1.25	1.42
1	I	233	A	C3'-O3'	-11.47	1.25	1.42
1	I	245	A	C3'-O3'	-11.47	1.25	1.42
1	I	316	A	C3'-O3'	-11.47	1.25	1.42
2	J	48	A	C3'-O3'	-11.47	1.25	1.42
3	K	81	A	C3'-O3'	-11.47	1.25	1.42
3	K	113	A	C3'-O3'	-11.47	1.25	1.42
4	L	637	U	C3'-O3'	-11.47	1.25	1.42
4	L	805	U	C3'-O3'	-11.47	1.25	1.42
5	M	443	U	C3'-O3'	-11.47	1.25	1.42
1	I	85	A	C3'-O3'	-11.46	1.25	1.42
1	I	175	A	C3'-O3'	-11.47	1.25	1.42
1	I	232	A	C3'-O3'	-11.46	1.25	1.42
1	I	337	A	C3'-O3'	-11.47	1.25	1.42
2	J	137	A	C3'-O3'	-11.47	1.25	1.42
2	J	267	A	C3'-O3'	-11.47	1.25	1.42
3	K	62	A	C3'-O3'	-11.47	1.25	1.42
5	M	308	U	C3'-O3'	-11.47	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	384	A	C3'-O3'	-11.46	1.25	1.42
2	J	117	A	C3'-O3'	-11.46	1.25	1.42
2	J	139	A	C3'-O3'	-11.46	1.25	1.42
3	K	18	A	C3'-O3'	-11.46	1.25	1.42
4	L	556	U	C3'-O3'	-11.46	1.25	1.42
4	L	673	U	C3'-O3'	-11.46	1.25	1.42
4	L	754	U	C3'-O3'	-11.46	1.25	1.42
4	L	822	U	C3'-O3'	-11.47	1.25	1.42
5	M	501	U	O3'-P	-11.47	1.44	1.61
5	M	297	U	C3'-O3'	-11.46	1.25	1.42
5	M	475	U	C3'-O3'	-11.46	1.25	1.42
5	M	507	U	C3'-O3'	-11.46	1.25	1.42
5	M	518	U	C3'-O3'	-11.46	1.25	1.42
6	N	266	U	C3'-O3'	-11.46	1.25	1.42
6	N	310	U	C3'-O3'	-11.47	1.25	1.42
1	I	14	A	C3'-O3'	-11.46	1.25	1.42
1	I	20	A	O3'-P	-11.46	1.44	1.61
2	J	71	A	C3'-O3'	-11.46	1.25	1.42
3	K	45	A	C3'-O3'	-11.46	1.25	1.42
5	M	330	U	C3'-O3'	-11.46	1.25	1.42
6	N	488	U	C3'-O3'	-11.46	1.25	1.42
6	N	523	U	C3'-O3'	-11.46	1.25	1.42
3	K	102	A	C3'-O3'	-11.46	1.25	1.42
4	L	466	U	C3'-O3'	-11.46	1.25	1.42
4	L	477	U	C3'-O3'	-11.46	1.25	1.42
4	L	514	U	C3'-O3'	-11.46	1.25	1.42
4	L	562	U	O3'-P	-11.46	1.44	1.61
4	L	584	U	C3'-O3'	-11.46	1.25	1.42
5	M	286	U	C3'-O3'	-11.46	1.25	1.42
5	M	455	U	C3'-O3'	-11.46	1.25	1.42
6	N	504	U	C3'-O3'	-11.46	1.25	1.42
1	I	246	A	C3'-O3'	-11.46	1.25	1.42
6	N	294	U	C3'-O3'	-11.46	1.25	1.42
1	I	379	A	C3'-O3'	-11.46	1.25	1.42
2	J	82	A	C3'-O3'	-11.46	1.25	1.42
2	J	104	A	C3'-O3'	-11.46	1.25	1.42
3	K	136	A	C3'-O3'	-11.46	1.25	1.42
4	L	498	U	C3'-O3'	-11.46	1.25	1.42
4	L	561	U	C3'-O3'	-11.46	1.25	1.42
4	L	699	U	C3'-O3'	-11.46	1.25	1.42
4	L	749	U	C3'-O3'	-11.46	1.25	1.42
5	M	418	U	C3'-O3'	-11.46	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	436	U	C3'-O3'	-11.46	1.25	1.42
6	N	355	U	C3'-O3'	-11.46	1.25	1.42
2	J	214	A	C3'-O3'	-11.46	1.25	1.42
4	L	570	U	C3'-O3'	-11.46	1.25	1.42
5	M	503	U	C3'-O3'	-11.46	1.25	1.42
6	N	274	U	C3'-O3'	-11.46	1.25	1.42
6	N	344	U	C3'-O3'	-11.46	1.25	1.42
1	I	5	A	C3'-O3'	-11.45	1.25	1.42
1	I	281	A	C3'-O3'	-11.45	1.25	1.42
1	I	284	A	C3'-O3'	-11.45	1.25	1.42
2	J	59	A	C3'-O3'	-11.45	1.25	1.42
2	J	225	A	C3'-O3'	-11.45	1.25	1.42
2	J	253	A	C3'-O3'	-11.45	1.25	1.42
3	K	78	A	C3'-O3'	-11.46	1.25	1.42
4	L	760	U	C3'-O3'	-11.45	1.25	1.42
6	N	350	U	C3'-O3'	-11.46	1.25	1.42
6	N	455	U	C3'-O3'	-11.46	1.25	1.42
4	L	595	U	C3'-O3'	-11.45	1.25	1.42
1	I	125	A	C3'-O3'	-11.45	1.25	1.42
1	I	198	A	C3'-O3'	-11.45	1.25	1.42
1	I	224	A	C3'-O3'	-11.45	1.25	1.42
2	J	149	A	C3'-O3'	-11.45	1.25	1.42
2	J	160	A	C3'-O3'	-11.45	1.25	1.42
3	K	33	A	C3'-O3'	-11.45	1.25	1.42
4	L	600	U	C3'-O3'	-11.45	1.25	1.42
4	L	708	U	C3'-O3'	-11.45	1.25	1.42
5	M	429	U	C3'-O3'	-11.45	1.25	1.42
5	M	506	U	C3'-O3'	-11.45	1.25	1.42
4	L	459	U	C3'-O3'	-11.45	1.25	1.42
1	I	149	A	C3'-O3'	-11.45	1.25	1.42
1	I	185	A	C3'-O3'	-11.45	1.25	1.42
1	I	305	A	C3'-O3'	-11.45	1.25	1.42
1	I	341	A	C3'-O3'	-11.45	1.25	1.42
2	J	38	A	C3'-O3'	-11.45	1.25	1.42
6	N	317	U	C3'-O3'	-11.45	1.25	1.42
6	N	381	U	C3'-O3'	-11.45	1.25	1.42
1	I	299	A	C3'-O3'	-11.45	1.25	1.42
2	J	29	A	C3'-O3'	-11.45	1.25	1.42
3	K	180	A	C3'-O3'	-11.45	1.25	1.42
4	L	545	U	C3'-O3'	-11.45	1.25	1.42
5	M	387	U	C3'-O3'	-11.45	1.25	1.42
6	N	284	U	C3'-O3'	-11.45	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	304	U	C3'-O3'	-11.45	1.25	1.42
1	I	392	A	C3'-O3'	-11.44	1.25	1.42
3	K	49	A	C3'-O3'	-11.45	1.25	1.42
4	L	694	U	C3'-O3'	-11.45	1.25	1.42
3	K	91	A	C3'-O3'	-11.44	1.25	1.42
5	M	509	U	C3'-O3'	-11.44	1.25	1.42
1	I	352	A	C3'-O3'	-11.44	1.25	1.42
2	J	187	A	C3'-O3'	-11.44	1.25	1.42
3	K	42	A	C3'-O3'	-11.44	1.25	1.42
4	L	550	U	C3'-O3'	-11.44	1.25	1.42
4	L	686	U	C3'-O3'	-11.44	1.25	1.42
5	M	352	U	C3'-O3'	-11.44	1.25	1.42
6	N	295	U	C3'-O3'	-11.44	1.25	1.42
6	N	411	U	C3'-O3'	-11.44	1.25	1.42
6	N	476	U	C3'-O3'	-11.44	1.25	1.42
2	J	100	A	C3'-O3'	-11.44	1.25	1.42
5	M	464	U	C3'-O3'	-11.44	1.25	1.42
2	J	90	A	C3'-O3'	-11.44	1.25	1.42
2	J	196	A	C3'-O3'	-11.44	1.25	1.42
3	K	64	A	C3'-O3'	-11.44	1.25	1.42
3	K	122	A	C3'-O3'	-11.44	1.25	1.42
6	N	422	U	C3'-O3'	-11.44	1.25	1.42
1	I	49	A	C3'-O3'	-11.44	1.25	1.42
1	I	54	A	C3'-O3'	-11.44	1.25	1.42
1	I	209	A	C3'-O3'	-11.44	1.25	1.42
4	L	723	U	C3'-O3'	-11.44	1.25	1.42
4	L	710	U	C3'-O3'	-11.44	1.25	1.42
5	M	277	U	C3'-O3'	-11.44	1.25	1.42
6	N	393	U	C3'-O3'	-11.44	1.25	1.42
3	K	201	A	C3'-O3'	-11.43	1.25	1.42
4	L	595	U	O3'-P	-11.43	1.44	1.61
1	I	215	A	C3'-O3'	-11.43	1.25	1.42
4	L	666	U	C3'-O3'	-11.43	1.25	1.42
5	M	520	U	C3'-O3'	-11.43	1.25	1.42
6	N	437	U	C3'-O3'	-11.43	1.25	1.42
1	I	323	A	C3'-O3'	-11.43	1.25	1.42
1	I	326	A	C3'-O3'	-11.43	1.25	1.42
2	J	67	A	C3'-O3'	-11.43	1.25	1.42
2	J	79	A	C3'-O3'	-11.43	1.25	1.42
4	L	415	U	C3'-O3'	-11.43	1.25	1.42
4	L	603	U	C3'-O3'	-11.43	1.25	1.42
4	L	683	U	C3'-O3'	-11.43	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	583	U	C3'-O3'	-11.43	1.25	1.42
4	L	750	U	C3'-O3'	-11.43	1.25	1.42
5	M	476	U	C3'-O3'	-11.43	1.25	1.42
6	N	273	U	C3'-O3'	-11.43	1.25	1.42
6	N	443	U	C3'-O3'	-11.43	1.25	1.42
6	N	383	U	C3'-O3'	-11.43	1.25	1.42
1	I	338	A	C3'-O3'	-11.43	1.25	1.42
1	I	395	A	C3'-O3'	-11.43	1.25	1.42
5	M	393	U	C3'-O3'	-11.43	1.25	1.42
3	K	51	A	C3'-O3'	-11.43	1.25	1.42
3	K	53	A	C3'-O3'	-11.43	1.25	1.42
3	K	166	A	C3'-O3'	-11.43	1.25	1.42
6	N	289	U	C3'-O3'	-11.43	1.25	1.42
6	N	404	U	C3'-O3'	-11.43	1.25	1.42
1	I	142	A	C3'-O3'	-11.42	1.25	1.42
3	K	147	A	C3'-O3'	-11.42	1.25	1.42
4	L	589	U	C3'-O3'	-11.42	1.25	1.42
4	L	738	U	C3'-O3'	-11.42	1.25	1.42
4	L	739	U	C3'-O3'	-11.42	1.25	1.42
5	M	482	U	C3'-O3'	-11.42	1.25	1.42
6	N	378	U	C3'-O3'	-11.42	1.25	1.42
6	N	421	U	C3'-O3'	-11.42	1.25	1.42
1	I	320	A	C3'-O3'	-11.42	1.25	1.42
3	K	146	A	C3'-O3'	-11.42	1.25	1.42
5	M	371	U	C3'-O3'	-11.42	1.25	1.42
6	N	377	U	C3'-O3'	-11.42	1.25	1.42
5	M	465	U	C3'-O3'	-11.42	1.25	1.42
6	N	381	U	O3'-P	11.42	1.78	1.61
1	I	155	A	O3'-P	-11.42	1.44	1.61
1	I	176	A	C3'-O3'	-11.42	1.25	1.42
2	J	138	A	C3'-O3'	-11.42	1.25	1.42
1	I	378	A	C3'-O3'	-11.42	1.25	1.42
3	K	158	A	C3'-O3'	-11.42	1.25	1.42
5	M	366	U	C3'-O3'	-11.42	1.25	1.42
3	K	168	A	C3'-O3'	-11.42	1.25	1.42
3	K	188	A	C3'-O3'	-11.42	1.25	1.42
4	L	639	U	C3'-O3'	-11.42	1.25	1.42
5	M	409	U	C3'-O3'	-11.42	1.25	1.42
5	M	471	U	C3'-O3'	-11.42	1.25	1.42
6	N	394	U	C3'-O3'	-11.42	1.25	1.42
1	I	262	A	C3'-O3'	-11.41	1.25	1.42
3	K	240	A	C3'-O3'	-11.41	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	426	U	C3'-O3'	-11.41	1.25	1.42
4	L	437	U	C3'-O3'	-11.41	1.25	1.42
5	M	338	U	C3'-O3'	-11.41	1.25	1.42
5	M	431	U	C3'-O3'	-11.41	1.25	1.42
5	M	442	U	C3'-O3'	-11.41	1.25	1.42
6	N	366	U	C3'-O3'	-11.41	1.25	1.42
6	N	399	U	C3'-O3'	-11.41	1.25	1.42
6	N	415	U	C3'-O3'	-11.41	1.25	1.42
6	N	448	U	C3'-O3'	-11.41	1.25	1.42
2	J	170	A	C3'-O3'	-11.41	1.25	1.42
2	J	236	A	C3'-O3'	-11.41	1.25	1.42
5	M	493	U	C3'-O3'	-11.41	1.25	1.42
6	N	282	U	C3'-O3'	-11.41	1.25	1.42
6	N	361	U	C3'-O3'	-11.41	1.25	1.42
6	N	454	U	C3'-O3'	-11.41	1.25	1.42
1	I	226	A	C3'-O3'	-11.41	1.25	1.42
4	L	605	U	C3'-O3'	-11.41	1.25	1.42
1	I	345	A	C3'-O3'	-11.41	1.25	1.42
1	I	353	A	C3'-O3'	-11.41	1.25	1.42
2	J	203	A	C3'-O3'	-11.41	1.25	1.42
5	M	333	U	C3'-O3'	-11.41	1.25	1.42
5	M	410	U	C3'-O3'	-11.41	1.25	1.42
1	I	236	A	C3'-O3'	-11.41	1.25	1.42
1	I	371	A	C3'-O3'	-11.41	1.25	1.42
4	L	662	U	C3'-O3'	-11.41	1.25	1.42
6	N	382	U	C3'-O3'	-11.41	1.25	1.42
1	I	148	A	C3'-O3'	-11.40	1.25	1.42
2	J	91	A	O3'-P	-11.40	1.44	1.61
4	L	464	U	C3'-O3'	-11.40	1.25	1.42
4	L	563	U	C3'-O3'	-11.40	1.25	1.42
5	M	360	U	C3'-O3'	-11.40	1.25	1.42
6	N	389	U	C3'-O3'	-11.40	1.25	1.42
5	M	310	U	C3'-O3'	-11.40	1.25	1.42
5	M	376	U	C3'-O3'	-11.40	1.25	1.42
5	M	388	U	C3'-O3'	-11.40	1.25	1.42
1	I	252	A	C3'-O3'	-11.40	1.25	1.42
4	L	651	U	C3'-O3'	-11.40	1.25	1.42
1	I	119	A	C3'-O3'	-11.40	1.25	1.42
1	I	219	A	C3'-O3'	-11.40	1.25	1.42
4	L	497	U	C3'-O3'	-11.40	1.25	1.42
1	I	200	A	C3'-O3'	-11.40	1.25	1.42
1	I	270	A	C3'-O3'	-11.40	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	321	A	C3'-O3'	-11.40	1.25	1.42
2	J	256	A	C3'-O3'	-11.40	1.25	1.42
3	K	108	A	C3'-O3'	-11.40	1.25	1.42
3	K	253	A	O3'-P	11.40	1.78	1.61
4	L	482	U	C3'-O3'	-11.40	1.25	1.42
5	M	504	U	C3'-O3'	-11.40	1.25	1.42
2	J	46	A	C3'-O3'	-11.40	1.25	1.42
4	L	587	U	O3'-P	-11.40	1.44	1.61
5	M	344	U	C3'-O3'	-11.40	1.25	1.42
5	M	399	U	C3'-O3'	-11.40	1.25	1.42
6	N	392	U	C3'-O3'	-11.40	1.25	1.42
1	I	130	A	C3'-O3'	-11.39	1.25	1.42
1	I	223	A	C3'-O3'	-11.39	1.25	1.42
3	K	125	A	C3'-O3'	-11.39	1.25	1.42
3	K	262	A	C3'-O3'	-11.39	1.25	1.42
5	M	404	U	C3'-O3'	-11.39	1.25	1.42
5	M	498	U	C3'-O3'	-11.39	1.25	1.42
6	N	371	U	C3'-O3'	-11.39	1.25	1.42
6	N	372	U	C3'-O3'	-11.39	1.25	1.42
2	J	247	A	C3'-O3'	-11.39	1.25	1.42
3	K	177	A	C3'-O3'	-11.39	1.25	1.42
3	K	191	A	C3'-O3'	-11.39	1.25	1.42
3	K	229	A	C3'-O3'	-11.39	1.25	1.42
3	K	235	A	C3'-O3'	-11.39	1.25	1.42
5	M	377	U	C3'-O3'	-11.39	1.25	1.42
5	M	453	U	C3'-O3'	-11.39	1.25	1.42
5	M	454	U	C3'-O3'	-11.39	1.25	1.42
6	N	359	U	C3'-O3'	-11.39	1.25	1.42
6	N	426	U	C3'-O3'	-11.39	1.25	1.42
1	I	367	A	C3'-O3'	-11.39	1.25	1.42
5	M	341	U	C3'-O3'	-11.39	1.25	1.42
2	J	192	A	C3'-O3'	-11.39	1.25	1.42
5	M	321	U	C3'-O3'	-11.39	1.25	1.42
1	I	400	A	C3'-O3'	-11.38	1.25	1.42
6	N	432	U	C3'-O3'	-11.38	1.25	1.42
1	I	129	A	C3'-O3'	-11.38	1.25	1.42
2	J	60	A	C3'-O3'	-11.38	1.25	1.42
4	L	475	U	C3'-O3'	-11.38	1.25	1.42
5	M	343	U	C3'-O3'	-11.38	1.25	1.42
1	I	294	A	C3'-O3'	-11.38	1.25	1.42
5	M	382	U	C3'-O3'	-11.38	1.25	1.42
6	N	279	U	C3'-O3'	-11.38	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	290	U	C3'-O3'	-11.38	1.25	1.42
2	J	156	A	C3'-O3'	-11.38	1.25	1.42
5	M	316	U	C3'-O3'	-11.38	1.25	1.42
6	N	405	U	C3'-O3'	-11.38	1.25	1.42
1	I	2	A	C3'-O3'	-11.38	1.25	1.42
3	K	86	A	C3'-O3'	-11.38	1.25	1.42
3	K	218	A	C3'-O3'	-11.38	1.25	1.42
4	L	594	U	C3'-O3'	-11.38	1.25	1.42
1	I	397	A	C3'-O3'	-11.38	1.25	1.42
4	L	567	U	C3'-O3'	-11.38	1.25	1.42
6	N	312	U	C3'-O3'	-11.38	1.25	1.42
6	N	433	U	C3'-O3'	-11.38	1.25	1.42
3	K	196	A	C3'-O3'	-11.37	1.25	1.42
1	I	97	A	C3'-O3'	-11.37	1.25	1.42
3	K	213	A	C3'-O3'	-11.37	1.25	1.42
4	L	486	U	C3'-O3'	-11.37	1.25	1.42
1	I	268	A	C3'-O3'	-11.37	1.25	1.42
1	I	274	A	C3'-O3'	-11.37	1.25	1.42
1	I	404	A	C3'-O3'	-11.37	1.25	1.42
1	I	359	A	C3'-O3'	-11.37	1.25	1.42
1	I	309	A	O3'-P	-11.37	1.44	1.61
1	I	349	A	C3'-O3'	-11.37	1.25	1.42
2	J	123	A	C3'-O3'	-11.37	1.25	1.42
6	N	271	U	C3'-O3'	-11.37	1.25	1.42
3	K	202	A	C3'-O3'	-11.36	1.25	1.42
4	L	420	U	C3'-O3'	-11.36	1.25	1.42
6	N	367	U	C3'-O3'	-11.37	1.25	1.42
1	I	348	A	C3'-O3'	-11.36	1.25	1.42
1	I	234	A	C3'-O3'	-11.36	1.25	1.42
1	I	235	A	C3'-O3'	-11.36	1.25	1.42
1	I	304	A	C3'-O3'	-11.36	1.25	1.42
1	I	334	A	C3'-O3'	-11.36	1.25	1.42
1	I	382	A	C3'-O3'	-11.36	1.25	1.42
3	K	152	A	C3'-O3'	-11.36	1.25	1.42
3	K	185	A	C3'-O3'	-11.36	1.25	1.42
5	M	299	U	C3'-O3'	-11.36	1.25	1.42
5	M	327	U	C3'-O3'	-11.36	1.25	1.42
5	M	449	U	C3'-O3'	-11.36	1.25	1.42
1	I	123	A	O3'-P	-11.36	1.44	1.61
1	I	278	A	C3'-O3'	-11.36	1.25	1.42
6	N	301	U	C3'-O3'	-11.36	1.25	1.42
3	K	163	A	C3'-O3'	-11.36	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	411	A	C3'-O3'	-11.36	1.25	1.42
4	L	534	U	C3'-O3'	-11.36	1.25	1.42
5	M	288	U	C3'-O3'	-11.36	1.25	1.42
3	K	97	A	C3'-O3'	-11.36	1.25	1.42
4	L	422	U	C3'-O3'	-11.36	1.25	1.42
1	I	269	A	O3'-P	-11.35	1.44	1.61
1	I	279	A	C3'-O3'	-11.35	1.25	1.42
2	J	134	A	C3'-O3'	-11.35	1.25	1.42
4	L	695	U	C3'-O3'	-11.35	1.25	1.42
4	L	578	U	C3'-O3'	-11.35	1.25	1.42
5	M	432	U	C3'-O3'	-11.35	1.25	1.42
6	N	334	U	C3'-O3'	-11.35	1.25	1.42
1	I	108	A	C3'-O3'	-11.35	1.25	1.42
1	I	327	A	C3'-O3'	-11.35	1.25	1.42
1	I	393	A	C3'-O3'	-11.35	1.25	1.42
6	N	444	U	C3'-O3'	-11.35	1.25	1.42
3	K	174	A	C3'-O3'	-11.35	1.25	1.42
5	M	405	U	C3'-O3'	-11.35	1.25	1.42
6	N	326	U	C3'-O3'	-11.35	1.25	1.42
6	N	337	U	C3'-O3'	-11.35	1.25	1.42
6	N	370	U	C3'-O3'	-11.35	1.25	1.42
6	N	400	U	C3'-O3'	-11.35	1.25	1.42
6	N	449	U	O3'-P	-11.35	1.44	1.61
1	I	331	A	C3'-O3'	-11.35	1.25	1.42
2	J	112	A	C3'-O3'	-11.35	1.25	1.42
4	L	761	U	C3'-O3'	-11.35	1.25	1.42
5	M	427	U	C3'-O3'	-11.35	1.25	1.42
6	N	345	U	C3'-O3'	-11.35	1.25	1.42
6	N	315	U	C3'-O3'	-11.35	1.25	1.42
1	I	312	A	C3'-O3'	-11.34	1.25	1.42
1	I	360	A	C3'-O3'	-11.34	1.25	1.42
1	I	315	A	C3'-O3'	-11.34	1.25	1.42
6	N	293	U	C3'-O3'	-11.34	1.25	1.42
6	N	356	U	C3'-O3'	-11.34	1.25	1.42
5	M	460	U	C3'-O3'	-11.34	1.25	1.42
6	N	416	U	C3'-O3'	-11.34	1.25	1.42
5	M	283	U	C3'-O3'	-11.34	1.25	1.42
6	N	323	U	C3'-O3'	-11.34	1.25	1.42
4	L	442	U	C3'-O3'	-11.33	1.25	1.42
5	M	305	U	C3'-O3'	-11.33	1.25	1.42
1	I	408	A	C3'-O3'	-11.33	1.25	1.42
2	J	145	A	C3'-O3'	-11.33	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	572	U	C3'-O3'	-11.33	1.25	1.42
5	M	416	U	C3'-O3'	-11.33	1.25	1.42
3	K	224	A	C3'-O3'	-11.33	1.25	1.42
6	N	348	U	C3'-O3'	-11.33	1.25	1.42
1	I	248	A	C3'-O3'	-11.33	1.25	1.42
2	J	101	A	C3'-O3'	-11.33	1.25	1.42
5	M	438	U	C3'-O3'	-11.33	1.25	1.42
3	K	207	A	C3'-O3'	-11.32	1.25	1.42
4	L	508	U	C3'-O3'	-11.32	1.25	1.42
1	I	354	A	C3'-O3'	-11.32	1.25	1.42
5	M	294	U	C3'-O3'	-11.32	1.25	1.42
2	J	266	A	C3'-O3'	-11.32	1.25	1.42
3	K	251	A	C3'-O3'	-11.32	1.25	1.42
1	I	356	A	C3'-O3'	-11.32	1.25	1.42
1	I	381	A	C3'-O3'	-11.32	1.25	1.42
3	K	257	A	C3'-O3'	-11.32	1.25	1.42
5	M	421	U	C3'-O3'	-11.31	1.25	1.42
1	I	293	A	C3'-O3'	-11.31	1.25	1.42
3	K	246	A	C3'-O3'	-11.31	1.25	1.42
2	J	211	A	C3'-O3'	-11.31	1.25	1.42
2	J	255	A	C3'-O3'	-11.31	1.25	1.42
1	I	398	A	O3'-P	11.31	1.78	1.61
3	K	177	A	O3'-P	11.31	1.78	1.61
5	M	383	U	C3'-O3'	-11.31	1.25	1.42
5	M	349	U	C3'-O3'	-11.30	1.25	1.42
6	N	525	U	O3'-P	11.30	1.78	1.61
1	I	389	A	C3'-O3'	-11.30	1.25	1.42
2	J	178	A	C3'-O3'	-11.30	1.25	1.42
4	L	421	U	C3'-O3'	-11.30	1.25	1.42
4	L	492	U	C3'-O3'	-11.30	1.25	1.42
2	J	233	A	C3'-O3'	-11.29	1.25	1.42
1	I	285	A	C3'-O3'	-11.29	1.25	1.42
1	I	364	A	C3'-O3'	-11.29	1.25	1.42
4	L	718	U	O3'-P	-11.29	1.44	1.61
6	N	268	U	C3'-O3'	-11.29	1.25	1.42
1	I	310	A	C3'-O3'	-11.29	1.25	1.42
4	L	705	U	O3'-P	-11.29	1.44	1.61
2	J	200	A	C3'-O3'	-11.28	1.25	1.42
2	J	167	A	C3'-O3'	-11.28	1.25	1.42
4	L	492	U	O3'-P	-11.28	1.44	1.61
1	I	230	A	C3'-O3'	-11.27	1.25	1.42
4	L	453	U	C3'-O3'	-11.27	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	394	U	C3'-O3'	-11.27	1.25	1.42
1	I	332	A	C3'-O3'	-11.27	1.25	1.42
2	J	244	A	C3'-O3'	-11.27	1.25	1.42
1	I	398	A	C3'-O3'	-11.27	1.25	1.42
4	L	539	U	C3'-O3'	-11.26	1.25	1.42
5	M	295	U	C3'-O3'	-11.26	1.25	1.42
1	I	375	A	C3'-O3'	-11.26	1.25	1.42
2	J	189	A	C3'-O3'	-11.26	1.25	1.42
4	L	519	U	C3'-O3'	-11.26	1.25	1.42
1	I	367	A	O3'-P	11.25	1.78	1.61
1	I	387	A	C3'-O3'	-11.25	1.25	1.42
1	I	263	A	C3'-O3'	-11.25	1.25	1.42
5	M	284	U	C3'-O3'	-11.25	1.25	1.42
1	I	342	A	C3'-O3'	-11.25	1.25	1.42
5	M	372	U	C3'-O3'	-11.25	1.25	1.42
4	L	547	U	O3'-P	11.24	1.78	1.61
4	L	431	U	C3'-O3'	-11.24	1.25	1.42
5	M	339	U	C3'-O3'	-11.24	1.25	1.42
1	I	365	A	C3'-O3'	-11.23	1.25	1.42
1	I	289	A	C3'-O3'	-11.23	1.25	1.42
1	I	343	A	C3'-O3'	-11.23	1.25	1.42
1	I	409	A	C3'-O3'	-11.23	1.25	1.42
1	I	298	A	C3'-O3'	-11.22	1.25	1.42
2	J	222	A	C3'-O3'	-11.22	1.25	1.42
4	L	788	U	O3'-P	11.22	1.77	1.61
1	I	376	A	C3'-O3'	-11.21	1.25	1.42
5	M	328	U	C3'-O3'	-11.21	1.25	1.42
1	I	293	A	O3'-P	11.20	1.77	1.61
1	I	386	A	C3'-O3'	-11.20	1.25	1.42
2	J	45	A	O3'-P	-11.20	1.44	1.61
5	M	317	U	C3'-O3'	-11.19	1.25	1.42
5	M	361	U	C3'-O3'	-11.19	1.25	1.42
3	K	93	A	O3'-P	-11.19	1.44	1.61
4	L	804	U	O3'-P	-11.19	1.44	1.61
5	M	306	U	C3'-O3'	-11.19	1.25	1.42
1	I	241	A	C3'-O3'	-11.17	1.25	1.42
5	M	336	U	O3'-P	11.16	1.77	1.61
4	L	530	U	C3'-O3'	-11.15	1.25	1.42
1	I	309	A	C3'-O3'	-11.14	1.25	1.42
1	I	229	A	O3'-P	-11.13	1.44	1.61
6	N	301	U	O3'-P	11.12	1.77	1.61
4	L	522	U	O3'-P	11.11	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	350	U	C3'-O3'	-11.10	1.25	1.42
2	J	154	A	O3'-P	11.10	1.77	1.61
6	N	386	U	O3'-P	11.09	1.77	1.61
1	I	100	A	O3'-P	11.08	1.77	1.61
2	J	29	A	O3'-P	-11.08	1.44	1.61
1	I	259	A	O3'-P	-11.06	1.44	1.61
1	I	85	A	O3'-P	-11.06	1.44	1.61
1	I	276	A	O3'-P	-11.06	1.44	1.61
5	M	309	U	O3'-P	11.05	1.77	1.61
3	K	254	A	O3'-P	11.05	1.77	1.61
4	L	722	U	O3'-P	11.04	1.77	1.61
3	K	216	A	O3'-P	11.01	1.77	1.61
4	L	732	U	O3'-P	11.00	1.77	1.61
1	I	399	A	O3'-P	10.97	1.77	1.61
4	L	806	U	O3'-P	-10.96	1.44	1.61
6	N	280	U	O3'-P	10.94	1.77	1.61
3	K	26	A	O3'-P	10.93	1.77	1.61
5	M	445	U	O3'-P	-10.93	1.44	1.61
3	K	114	A	O3'-P	-10.91	1.44	1.61
4	L	655	U	O3'-P	-10.91	1.44	1.61
3	K	223	A	O3'-P	10.91	1.77	1.61
2	J	94	A	O3'-P	-10.91	1.44	1.61
4	L	646	U	O3'-P	-10.91	1.44	1.61
4	L	457	U	O3'-P	10.90	1.77	1.61
4	L	623	U	O3'-P	10.90	1.77	1.61
3	K	237	A	O3'-P	10.88	1.77	1.61
4	L	543	U	O3'-P	-10.86	1.44	1.61
3	K	130	A	O3'-P	-10.85	1.44	1.61
1	I	208	A	O3'-P	-10.85	1.44	1.61
5	M	444	U	O3'-P	10.84	1.77	1.61
2	J	169	A	O3'-P	10.81	1.77	1.61
3	K	18	A	O3'-P	10.81	1.77	1.61
6	N	326	U	O3'-P	10.80	1.77	1.61
4	L	706	U	O3'-P	10.80	1.77	1.61
1	I	346	A	O3'-P	10.78	1.77	1.61
2	J	161	A	O3'-P	-10.76	1.45	1.61
1	I	350	A	O3'-P	10.76	1.77	1.61
4	L	518	U	O3'-P	-10.76	1.45	1.61
2	J	86	A	O3'-P	10.75	1.77	1.61
4	L	665	U	O3'-P	-10.74	1.45	1.61
1	I	347	A	O3'-P	10.74	1.77	1.61
4	L	779	U	O3'-P	-10.74	1.45	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	114	A	O3'-P	-10.72	1.45	1.61
5	M	394	U	O3'-P	-10.71	1.45	1.61
4	L	542	U	O3'-P	-10.71	1.45	1.61
4	L	793	U	O3'-P	-10.70	1.45	1.61
2	J	264	A	O3'-P	-10.70	1.45	1.61
2	J	268	A	O3'-P	10.65	1.77	1.61
4	L	798	U	O3'-P	-10.65	1.45	1.61
4	L	524	U	O3'-P	-10.65	1.45	1.61
2	J	41	A	O3'-P	10.64	1.77	1.61
4	L	479	U	O3'-P	10.63	1.77	1.61
2	J	164	A	O3'-P	-10.62	1.45	1.61
4	L	537	U	O3'-P	10.62	1.77	1.61
3	K	143	A	O3'-P	10.62	1.77	1.61
6	N	448	U	O3'-P	-10.60	1.45	1.61
3	K	121	A	O3'-P	-10.59	1.45	1.61
1	I	244	A	O3'-P	-10.57	1.45	1.61
2	J	119	A	O3'-P	-10.57	1.45	1.61
3	K	107	A	O3'-P	-10.56	1.45	1.61
1	I	217	A	O3'-P	10.51	1.76	1.61
1	I	295	A	O3'-P	10.50	1.76	1.61
4	L	432	U	O3'-P	10.49	1.76	1.61
3	K	213	A	O3'-P	10.47	1.76	1.61
2	J	21	A	O3'-P	10.45	1.76	1.61
4	L	721	U	O3'-P	10.45	1.76	1.61
4	L	605	U	O3'-P	-10.44	1.45	1.61
6	N	390	U	O3'-P	10.44	1.76	1.61
2	J	148	A	O3'-P	-10.41	1.45	1.61
1	I	107	A	O3'-P	-10.40	1.45	1.61
4	L	672	U	O3'-P	-10.40	1.45	1.61
2	J	218	A	O3'-P	-10.40	1.45	1.61
4	L	607	U	O3'-P	10.39	1.76	1.61
2	J	84	A	O3'-P	-10.39	1.45	1.61
2	J	137	A	O3'-P	-10.39	1.45	1.61
1	I	117	A	O3'-P	10.38	1.76	1.61
2	J	140	A	O3'-P	10.37	1.76	1.61
3	K	34	A	O3'-P	10.35	1.76	1.61
4	L	743	U	O3'-P	-10.34	1.45	1.61
4	L	638	U	O3'-P	-10.34	1.45	1.61
4	L	593	U	O3'-P	-10.30	1.45	1.61
4	L	664	U	O3'-P	10.30	1.76	1.61
2	J	219	A	O3'-P	-10.29	1.45	1.61
2	J	87	A	O3'-P	-10.27	1.45	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2	A	O3'-P	10.26	1.76	1.61
2	J	72	A	O3'-P	-10.25	1.45	1.61
4	L	502	U	O3'-P	-10.25	1.45	1.61
3	K	185	A	O3'-P	10.23	1.76	1.61
1	I	56	A	O3'-P	-10.22	1.45	1.61
5	M	436	U	O3'-P	-10.22	1.45	1.61
5	M	361	U	O3'-P	-10.22	1.45	1.61
6	N	376	U	O3'-P	-10.21	1.45	1.61
5	M	521	U	O3'-P	-10.21	1.45	1.61
6	N	312	U	O3'-P	10.20	1.76	1.61
3	K	84	A	O3'-P	-10.18	1.45	1.61
4	L	590	U	O3'-P	-10.15	1.46	1.61
5	M	523	U	O3'-P	-10.14	1.46	1.61
6	N	435	U	O3'-P	-10.14	1.46	1.61
5	M	464	U	O3'-P	-10.12	1.46	1.61
3	K	68	A	O3'-P	10.12	1.76	1.61
4	L	521	U	O3'-P	10.10	1.76	1.61
6	N	400	U	O3'-P	-10.10	1.46	1.61
1	I	101	A	O3'-P	10.10	1.76	1.61
1	I	90	A	O3'-P	-10.08	1.46	1.61
4	L	561	U	O3'-P	-10.08	1.46	1.61
2	J	52	A	O3'-P	-10.07	1.46	1.61
1	I	343	A	O3'-P	10.06	1.76	1.61
1	I	364	A	O3'-P	-10.05	1.46	1.61
2	J	88	A	O3'-P	-10.05	1.46	1.61
4	L	496	U	O3'-P	-10.01	1.46	1.61
4	L	742	U	O3'-P	10.01	1.76	1.61
3	K	158	A	O3'-P	10.00	1.76	1.61
5	M	319	U	O3'-P	9.99	1.76	1.61
4	L	507	U	O3'-P	-9.96	1.46	1.61
1	I	110	A	O3'-P	9.94	1.76	1.61
1	I	389	A	O3'-P	9.93	1.76	1.61
3	K	5	A	O3'-P	9.91	1.76	1.61
6	N	514	U	O3'-P	9.91	1.76	1.61
4	L	416	U	O3'-P	9.90	1.75	1.61
4	L	729	U	O3'-P	9.89	1.75	1.61
5	M	431	U	O3'-P	9.89	1.75	1.61
1	I	252	A	O3'-P	-9.88	1.46	1.61
6	N	319	U	O3'-P	9.87	1.75	1.61
1	I	238	A	O3'-P	-9.84	1.46	1.61
3	K	95	A	O3'-P	-9.82	1.46	1.61
6	N	451	U	O3'-P	9.81	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	368	A	O3'-P	9.80	1.75	1.61
3	K	203	A	O3'-P	9.77	1.75	1.61
1	I	21	A	O3'-P	-9.77	1.46	1.61
5	M	454	U	O3'-P	9.77	1.75	1.61
3	K	28	A	O3'-P	9.76	1.75	1.61
4	L	747	U	O3'-P	-9.73	1.46	1.61
4	L	419	U	O3'-P	9.73	1.75	1.61
6	N	480	U	O3'-P	9.71	1.75	1.61
6	N	406	U	O3'-P	-9.70	1.46	1.61
4	L	470	U	O3'-P	9.66	1.75	1.61
5	M	507	U	O3'-P	-9.63	1.46	1.61
6	N	500	U	O3'-P	9.62	1.75	1.61
3	K	141	A	O3'-P	9.60	1.75	1.61
1	I	189	A	O3'-P	-9.60	1.46	1.61
2	J	207	A	O3'-P	-9.59	1.46	1.61
4	L	549	U	O3'-P	-9.59	1.46	1.61
1	I	307	A	O3'-P	-9.58	1.46	1.61
3	K	73	A	O3'-P	9.58	1.75	1.61
1	I	268	A	O3'-P	-9.55	1.46	1.61
2	J	54	A	O3'-P	-9.56	1.46	1.61
1	I	297	A	O3'-P	9.53	1.75	1.61
6	N	417	U	O3'-P	-9.53	1.46	1.61
3	K	30	A	O3'-P	9.50	1.75	1.61
1	I	174	A	O3'-P	-9.49	1.47	1.61
3	K	247	A	O3'-P	9.47	1.75	1.61
3	K	7	A	O3'-P	9.45	1.75	1.61
4	L	802	U	O3'-P	-9.45	1.47	1.61
4	L	475	U	O3'-P	9.43	1.75	1.61
6	N	334	U	O3'-P	9.43	1.75	1.61
2	J	261	A	O3'-P	9.42	1.75	1.61
4	L	420	U	O3'-P	9.42	1.75	1.61
4	L	790	U	O3'-P	9.42	1.75	1.61
6	N	401	U	O3'-P	-9.41	1.47	1.61
2	J	61	A	O3'-P	9.36	1.75	1.61
6	N	415	U	O3'-P	9.36	1.75	1.61
6	N	382	U	O3'-P	9.36	1.75	1.61
1	I	184	A	O3'-P	-9.35	1.47	1.61
4	L	734	U	O3'-P	-9.35	1.47	1.61
5	M	425	U	O3'-P	9.34	1.75	1.61
4	L	484	U	O3'-P	-9.34	1.47	1.61
2	J	35	A	O3'-P	-9.33	1.47	1.61
5	M	480	U	O3'-P	9.33	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	26	A	O3'-P	-9.32	1.47	1.61
2	J	195	A	O3'-P	9.32	1.75	1.61
2	J	213	A	O3'-P	9.32	1.75	1.61
1	I	126	A	O3'-P	9.30	1.75	1.61
3	K	83	A	O3'-P	-9.29	1.47	1.61
6	N	475	U	O3'-P	-9.27	1.47	1.61
4	L	772	U	O3'-P	-9.26	1.47	1.61
3	K	210	A	O3'-P	9.26	1.75	1.61
1	I	396	A	O3'-P	9.24	1.75	1.61
6	N	356	U	O3'-P	9.23	1.75	1.61
2	J	249	A	O3'-P	-9.22	1.47	1.61
5	M	286	U	O3'-P	-9.22	1.47	1.61
5	M	528	U	O3'-P	-9.22	1.47	1.61
4	L	637	U	O3'-P	-9.19	1.47	1.61
5	M	539	U	O3'-P	-9.18	1.47	1.61
4	L	511	U	O3'-P	9.18	1.75	1.61
4	L	532	U	O3'-P	9.17	1.75	1.61
3	K	106	A	O3'-P	-9.17	1.47	1.61
1	I	8	A	O3'-P	-9.17	1.47	1.61
5	M	407	U	O3'-P	9.16	1.74	1.61
5	M	508	U	O3'-P	-9.16	1.47	1.61
6	N	413	U	O3'-P	-9.16	1.47	1.61
2	J	133	A	O3'-P	9.15	1.74	1.61
1	I	263	A	O3'-P	-9.13	1.47	1.61
4	L	782	U	O3'-P	-9.13	1.47	1.61
6	N	493	U	O3'-P	-9.12	1.47	1.61
6	N	477	U	O3'-P	9.11	1.74	1.61
4	L	463	U	O3'-P	9.10	1.74	1.61
2	J	238	A	O3'-P	9.09	1.74	1.61
6	N	284	U	O3'-P	9.05	1.74	1.61
4	L	653	U	O3'-P	9.05	1.74	1.61
3	K	43	A	O3'-P	9.03	1.74	1.61
5	M	370	U	O3'-P	-9.02	1.47	1.61
3	K	102	A	O3'-P	-9.02	1.47	1.61
2	J	69	A	O3'-P	9.00	1.74	1.61
4	L	434	U	O3'-P	8.99	1.74	1.61
4	L	461	U	O3'-P	-8.95	1.47	1.61
6	N	375	U	O3'-P	-8.95	1.47	1.61
5	M	516	U	O3'-P	-8.95	1.47	1.61
3	K	4	A	O3'-P	8.95	1.74	1.61
3	K	245	A	O3'-P	8.93	1.74	1.61
1	I	77	A	O3'-P	-8.92	1.47	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	128	A	O3'-P	-8.92	1.47	1.61
3	K	37	A	O3'-P	-8.89	1.47	1.61
6	N	478	U	O3'-P	8.88	1.74	1.61
4	L	699	U	O3'-P	8.88	1.74	1.61
4	L	640	U	O3'-P	8.88	1.74	1.61
4	L	515	U	O3'-P	-8.86	1.47	1.61
1	I	341	A	O3'-P	-8.81	1.48	1.61
5	M	481	U	O3'-P	-8.81	1.48	1.61
5	M	372	U	O3'-P	-8.80	1.48	1.61
4	L	566	U	O3'-P	-8.78	1.48	1.61
1	I	68	A	O3'-P	-8.77	1.48	1.61
3	K	239	A	O3'-P	-8.72	1.48	1.61
6	N	428	U	O3'-P	-8.71	1.48	1.61
6	N	488	U	O3'-P	8.70	1.74	1.61
4	L	621	U	O3'-P	-8.69	1.48	1.61
5	M	540	U	O3'-P	-8.69	1.48	1.61
5	M	367	U	O3'-P	-8.67	1.48	1.61
1	I	94	A	O3'-P	8.65	1.74	1.61
6	N	309	U	O3'-P	8.65	1.74	1.61
4	L	754	U	O3'-P	-8.63	1.48	1.61
1	I	246	A	O3'-P	-8.61	1.48	1.61
5	M	457	U	O3'-P	-8.58	1.48	1.61
2	J	194	A	O3'-P	8.56	1.74	1.61
4	L	553	U	O3'-P	-8.55	1.48	1.61
4	L	801	U	O3'-P	-8.54	1.48	1.61
4	L	636	U	O3'-P	-8.54	1.48	1.61
6	N	392	U	O3'-P	8.54	1.74	1.61
1	I	265	A	O3'-P	-8.53	1.48	1.61
5	M	476	U	O3'-P	-8.53	1.48	1.61
3	K	182	A	O3'-P	-8.52	1.48	1.61
5	M	335	U	O3'-P	8.51	1.74	1.61
5	M	418	U	O3'-P	8.51	1.74	1.61
5	M	421	U	O3'-P	8.49	1.73	1.61
1	I	198	A	O3'-P	8.48	1.73	1.61
3	K	156	A	O3'-P	8.41	1.73	1.61
4	L	512	U	O3'-P	-8.40	1.48	1.61
3	K	147	A	O3'-P	8.40	1.73	1.61
5	M	450	U	O3'-P	-8.38	1.48	1.61
6	N	496	U	O3'-P	8.38	1.73	1.61
4	L	714	U	O3'-P	8.37	1.73	1.61
2	J	178	A	O3'-P	8.36	1.73	1.61
4	L	791	U	O3'-P	8.32	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	130	A	O3'-P	-8.31	1.48	1.61
4	L	762	U	O3'-P	-8.30	1.48	1.61
2	J	108	A	O3'-P	-8.30	1.48	1.61
3	K	8	A	O3'-P	8.28	1.73	1.61
2	J	48	A	O3'-P	-8.28	1.48	1.61
1	I	299	A	O3'-P	-8.27	1.48	1.61
3	K	257	A	O3'-P	-8.27	1.48	1.61
1	I	230	A	O3'-P	-8.23	1.48	1.61
6	N	464	U	O3'-P	8.23	1.73	1.61
1	I	213	A	O3'-P	-8.20	1.48	1.61
6	N	494	U	O3'-P	8.21	1.73	1.61
5	M	363	U	O3'-P	8.19	1.73	1.61
6	N	407	U	O3'-P	-8.17	1.48	1.61
2	J	177	A	O3'-P	-8.13	1.49	1.61
1	I	93	A	O3'-P	8.12	1.73	1.61
4	L	506	U	O3'-P	-8.10	1.49	1.61
1	I	182	A	O3'-P	8.10	1.73	1.61
2	J	182	A	O3'-P	-8.09	1.49	1.61
1	I	270	A	O3'-P	-8.09	1.49	1.61
2	J	47	A	O3'-P	8.05	1.73	1.61
1	I	87	A	O3'-P	-8.05	1.49	1.61
4	L	647	U	O3'-P	-8.05	1.49	1.61
3	K	220	A	O3'-P	8.04	1.73	1.61
6	N	358	U	O3'-P	8.04	1.73	1.61
1	I	271	A	O3'-P	8.03	1.73	1.61
4	L	581	U	O3'-P	-8.03	1.49	1.61
1	I	162	A	O3'-P	8.03	1.73	1.61
4	L	483	U	O3'-P	-8.01	1.49	1.61
1	I	242	A	O3'-P	-8.01	1.49	1.61
4	L	503	U	O3'-P	-8.00	1.49	1.61
1	I	407	A	O3'-P	7.98	1.73	1.61
5	M	328	U	O3'-P	7.98	1.73	1.61
1	I	45	A	O3'-P	-7.98	1.49	1.61
6	N	363	U	O3'-P	-7.96	1.49	1.61
3	K	168	A	O3'-P	7.96	1.73	1.61
1	I	76	A	O3'-P	-7.95	1.49	1.61
1	I	195	A	O3'-P	7.94	1.73	1.61
4	L	652	U	O3'-P	7.93	1.73	1.61
3	K	109	A	O3'-P	7.90	1.73	1.61
5	M	392	U	O3'-P	-7.89	1.49	1.61
2	J	17	A	O3'-P	-7.89	1.49	1.61
3	K	166	A	O3'-P	-7.85	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	550	U	O3'-P	-7.82	1.49	1.61
5	M	348	U	O3'-P	-7.82	1.49	1.61
4	L	753	U	O3'-P	-7.82	1.49	1.61
5	M	530	U	O3'-P	7.81	1.72	1.61
5	M	306	U	O3'-P	-7.76	1.49	1.61
6	N	506	U	O3'-P	7.74	1.72	1.61
6	N	425	U	O3'-P	-7.71	1.49	1.61
5	M	435	U	O3'-P	7.70	1.72	1.61
5	M	486	U	O3'-P	-7.67	1.49	1.61
5	M	506	U	O3'-P	7.67	1.72	1.61
6	N	372	U	O3'-P	7.67	1.72	1.61
3	K	96	A	O3'-P	-7.65	1.49	1.61
2	J	99	A	O3'-P	-7.63	1.49	1.61
4	L	703	U	O3'-P	-7.63	1.49	1.61
5	M	377	U	O3'-P	-7.62	1.49	1.61
4	L	777	U	O3'-P	-7.62	1.49	1.61
1	I	372	A	O3'-P	7.60	1.72	1.61
5	M	341	U	O3'-P	7.59	1.72	1.61
6	N	423	U	O3'-P	-7.58	1.49	1.61
3	K	138	A	O3'-P	7.57	1.72	1.61
4	L	691	U	O3'-P	-7.56	1.49	1.61
4	L	474	U	O3'-P	7.55	1.72	1.61
2	J	216	A	O3'-P	7.53	1.72	1.61
1	I	115	A	O3'-P	-7.52	1.49	1.61
4	L	701	U	O3'-P	-7.51	1.49	1.61
3	K	201	A	O3'-P	7.46	1.72	1.61
2	J	20	A	O3'-P	7.44	1.72	1.61
3	K	118	A	O3'-P	-7.44	1.50	1.61
5	M	511	U	O3'-P	-7.43	1.50	1.61
2	J	237	A	O3'-P	7.42	1.72	1.61
5	M	339	U	O3'-P	7.41	1.72	1.61
5	M	499	U	O3'-P	-7.41	1.50	1.61
5	M	289	U	O3'-P	-7.40	1.50	1.61
1	I	19	A	O3'-P	-7.40	1.50	1.61
3	K	157	A	O3'-P	7.38	1.72	1.61
5	M	449	U	O3'-P	-7.38	1.50	1.61
3	K	172	A	O3'-P	7.38	1.72	1.61
2	J	110	A	O3'-P	7.37	1.72	1.61
1	I	207	A	O3'-P	-7.33	1.50	1.61
1	I	360	A	O3'-P	7.32	1.72	1.61
5	M	532	U	O3'-P	7.32	1.72	1.61
1	I	336	A	O3'-P	7.31	1.72	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	410	A	O3'-P	7.28	1.72	1.61
1	I	89	A	O3'-P	-7.26	1.50	1.61
2	J	118	A	O3'-P	-7.26	1.50	1.61
1	I	159	A	O3'-P	-7.25	1.50	1.61
1	I	247	A	O3'-P	-7.25	1.50	1.61
2	J	15	A	O3'-P	7.23	1.72	1.61
1	I	287	A	O3'-P	7.21	1.72	1.61
2	J	30	A	O3'-P	-7.21	1.50	1.61
1	I	194	A	O3'-P	-7.21	1.50	1.61
4	L	727	U	O3'-P	7.20	1.72	1.61
1	I	137	A	O3'-P	7.19	1.72	1.61
2	J	89	A	O3'-P	-7.18	1.50	1.61
6	N	394	U	O3'-P	-7.17	1.50	1.61
3	K	200	A	O3'-P	7.16	1.71	1.61
2	J	83	A	O3'-P	-7.14	1.50	1.61
4	L	437	U	O3'-P	7.14	1.71	1.61
5	M	331	U	O3'-P	-7.14	1.50	1.61
3	K	27	A	O3'-P	7.14	1.71	1.61
5	M	403	U	O3'-P	-7.14	1.50	1.61
4	L	803	U	O3'-P	-7.07	1.50	1.61
4	L	477	U	O3'-P	7.06	1.71	1.61
1	I	112	A	O3'-P	-7.05	1.50	1.61
6	N	527	U	O3'-P	7.00	1.71	1.61
5	M	426	U	O3'-P	6.99	1.71	1.61
4	L	520	U	O3'-P	6.99	1.71	1.61
6	N	294	U	O3'-P	-6.99	1.50	1.61
1	I	134	A	O3'-P	-6.97	1.50	1.61
2	J	121	A	O3'-P	6.96	1.71	1.61
6	N	408	U	O3'-P	-6.96	1.50	1.61
5	M	546	U	O3'-P	-6.96	1.50	1.61
3	K	129	A	O3'-P	-6.93	1.50	1.61
4	L	482	U	O3'-P	6.93	1.71	1.61
4	L	684	U	O3'-P	6.90	1.71	1.61
4	L	765	U	O3'-P	6.90	1.71	1.61
4	L	554	U	O3'-P	6.90	1.71	1.61
3	K	183	A	O3'-P	6.88	1.71	1.61
4	L	654	U	O3'-P	6.88	1.71	1.61
5	M	404	U	O3'-P	-6.88	1.50	1.61
6	N	502	U	O3'-P	6.87	1.71	1.61
6	N	273	U	O3'-P	-6.86	1.50	1.61
1	I	312	A	O3'-P	-6.85	1.50	1.61
2	J	25	A	O3'-P	-6.84	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	73	A	O3'-P	6.80	1.71	1.61
6	N	335	U	O3'-P	6.80	1.71	1.61
3	K	66	A	O3'-P	6.79	1.71	1.61
3	K	153	A	O3'-P	6.79	1.71	1.61
1	I	211	A	O3'-P	-6.78	1.50	1.61
4	L	708	U	O3'-P	6.78	1.71	1.61
2	J	124	A	O3'-P	-6.76	1.51	1.61
3	K	149	A	O3'-P	-6.75	1.51	1.61
1	I	400	A	O3'-P	6.75	1.71	1.61
1	I	234	A	O3'-P	-6.73	1.51	1.61
4	L	695	U	O3'-P	-6.71	1.51	1.61
1	I	122	A	O3'-P	-6.70	1.51	1.61
1	I	334	A	O3'-P	-6.70	1.51	1.61
1	I	156	A	O3'-P	-6.70	1.51	1.61
1	I	206	A	O3'-P	6.67	1.71	1.61
5	M	338	U	O3'-P	6.67	1.71	1.61
1	I	118	A	O3'-P	6.66	1.71	1.61
6	N	332	U	O3'-P	6.63	1.71	1.61
1	I	43	A	O3'-P	-6.63	1.51	1.61
4	L	715	U	O3'-P	6.60	1.71	1.61
5	M	498	U	O3'-P	6.59	1.71	1.61
6	N	442	U	O3'-P	-6.57	1.51	1.61
1	I	342	A	O3'-P	6.57	1.71	1.61
4	L	486	U	O3'-P	-6.56	1.51	1.61
3	K	126	A	O3'-P	-6.54	1.51	1.61
1	I	48	A	O3'-P	-6.53	1.51	1.61
3	K	144	A	O3'-P	6.53	1.71	1.61
5	M	384	U	O3'-P	6.50	1.71	1.61
4	L	618	U	O3'-P	-6.50	1.51	1.61
6	N	526	U	O3'-P	6.49	1.70	1.61
2	J	202	A	O3'-P	-6.48	1.51	1.61
2	J	231	A	O3'-P	6.47	1.70	1.61
6	N	329	U	O3'-P	6.47	1.70	1.61
1	I	131	A	O3'-P	-6.42	1.51	1.61
6	N	370	U	O3'-P	-6.42	1.51	1.61
1	I	352	A	O3'-P	-6.42	1.51	1.61
2	J	122	A	O3'-P	6.41	1.70	1.61
4	L	485	U	O3'-P	-6.41	1.51	1.61
1	I	37	A	O3'-P	6.41	1.70	1.61
4	L	697	U	O3'-P	6.39	1.70	1.61
4	L	613	U	O3'-P	-6.37	1.51	1.61
4	L	603	U	O3'-P	-6.36	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	165	A	O3'-P	6.36	1.70	1.61
3	K	1	A	O3'-P	6.36	1.70	1.61
3	K	72	A	O3'-P	-6.36	1.51	1.61
1	I	34	A	O3'-P	6.35	1.70	1.61
1	I	401	A	O3'-P	6.35	1.70	1.61
5	M	332	U	O3'-P	-6.35	1.51	1.61
3	K	229	A	O3'-P	6.34	1.70	1.61
4	L	519	U	O3'-P	-6.33	1.51	1.61
4	L	567	U	O3'-P	-6.33	1.51	1.61
6	N	433	U	O3'-P	-6.29	1.51	1.61
1	I	119	A	O3'-P	-6.29	1.51	1.61
4	L	568	U	O3'-P	-6.29	1.51	1.61
2	J	246	A	O3'-P	-6.28	1.51	1.61
4	L	530	U	O3'-P	6.27	1.70	1.61
5	M	316	U	O3'-P	-6.27	1.51	1.61
3	K	238	A	O3'-P	6.25	1.70	1.61
2	J	224	A	O3'-P	-6.25	1.51	1.61
4	L	424	U	O3'-P	6.24	1.70	1.61
4	L	796	U	O3'-P	6.24	1.70	1.61
4	L	748	U	O3'-P	-6.24	1.51	1.61
3	K	255	A	O3'-P	6.24	1.70	1.61
1	I	125	A	O3'-P	6.22	1.70	1.61
1	I	188	A	O3'-P	-6.21	1.51	1.61
2	J	82	A	O3'-P	-6.21	1.51	1.61
5	M	376	U	O3'-P	-6.18	1.51	1.61
4	L	421	U	O3'-P	6.17	1.70	1.61
4	L	750	U	O3'-P	-6.16	1.51	1.61
4	L	570	U	O3'-P	6.15	1.70	1.61
5	M	467	U	O3'-P	6.14	1.70	1.61
4	L	689	U	O3'-P	-6.14	1.51	1.61
1	I	243	A	O3'-P	-6.14	1.51	1.61
5	M	542	U	O3'-P	6.13	1.70	1.61
2	J	132	A	O3'-P	6.13	1.70	1.61
3	K	142	A	O3'-P	6.12	1.70	1.61
4	L	466	U	O3'-P	-6.11	1.51	1.61
1	I	358	A	O3'-P	6.10	1.70	1.61
6	N	336	U	O3'-P	6.10	1.70	1.61
1	I	6	A	O3'-P	6.09	1.70	1.61
4	L	418	U	O3'-P	6.09	1.70	1.61
4	L	674	U	O3'-P	6.09	1.70	1.61
5	M	290	U	O3'-P	-6.08	1.52	1.61
5	M	326	U	O3'-P	-6.08	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	379	U	O3'-P	-6.07	1.52	1.61
2	J	6	A	O3'-P	6.06	1.70	1.61
5	M	362	U	O3'-P	6.06	1.70	1.61
2	J	172	A	O3'-P	-6.06	1.52	1.61
1	I	151	A	O3'-P	6.04	1.70	1.61
1	I	317	A	O3'-P	-6.03	1.52	1.61
2	J	12	A	O3'-P	-6.00	1.52	1.61
1	I	88	A	O3'-P	6.00	1.70	1.61
1	I	108	A	O3'-P	-6.00	1.52	1.61
1	I	357	A	O3'-P	6.00	1.70	1.61
2	J	80	A	O3'-P	-5.99	1.52	1.61
3	K	59	A	O3'-P	5.98	1.70	1.61
1	I	313	A	O3'-P	-5.98	1.52	1.61
6	N	470	U	O3'-P	5.98	1.70	1.61
1	I	369	A	O3'-P	5.98	1.70	1.61
1	I	314	A	O3'-P	-5.98	1.52	1.61
6	N	501	U	O3'-P	5.97	1.70	1.61
4	L	546	U	O3'-P	-5.95	1.52	1.61
4	L	631	U	O3'-P	5.93	1.70	1.61
4	L	764	U	O3'-P	5.92	1.70	1.61
6	N	311	U	O3'-P	5.92	1.70	1.61
4	L	611	U	O3'-P	-5.91	1.52	1.61
5	M	382	U	O3'-P	5.91	1.70	1.61
3	K	78	A	O3'-P	5.91	1.70	1.61
4	L	661	U	O3'-P	5.90	1.70	1.61
6	N	296	U	O3'-P	5.89	1.70	1.61
4	L	820	U	O3'-P	5.89	1.70	1.61
1	I	388	A	O3'-P	5.88	1.70	1.61
6	N	359	U	O3'-P	5.87	1.70	1.61
2	J	192	A	O3'-P	-5.86	1.52	1.61
1	I	279	A	O3'-P	5.85	1.70	1.61
3	K	92	A	O3'-P	-5.85	1.52	1.61
6	N	292	U	O3'-P	5.84	1.70	1.61
4	L	558	U	O3'-P	-5.82	1.52	1.61
1	I	192	A	O3'-P	5.80	1.69	1.61
2	J	53	A	O3'-P	-5.80	1.52	1.61
2	J	79	A	O3'-P	-5.80	1.52	1.61
4	L	688	U	O3'-P	-5.80	1.52	1.61
1	I	120	A	O3'-P	-5.79	1.52	1.61
2	J	5	A	O3'-P	5.76	1.69	1.61
2	J	104	A	O3'-P	-5.75	1.52	1.61
1	I	304	A	O3'-P	5.75	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	38	A	O3'-P	-5.75	1.52	1.61
1	I	36	A	O3'-P	5.74	1.69	1.61
6	N	348	U	O3'-P	-5.74	1.52	1.61
4	L	789	U	O3'-P	5.73	1.69	1.61
2	J	18	A	O3'-P	-5.72	1.52	1.61
4	L	766	U	O3'-P	5.72	1.69	1.61
3	K	112	A	O3'-P	5.72	1.69	1.61
3	K	187	A	O3'-P	5.72	1.69	1.61
5	M	535	U	O3'-P	-5.71	1.52	1.61
3	K	198	A	O3'-P	5.68	1.69	1.61
4	L	528	U	O3'-P	-5.68	1.52	1.61
4	L	719	U	O3'-P	-5.68	1.52	1.61
2	J	263	A	O3'-P	-5.68	1.52	1.61
2	J	179	A	O3'-P	5.66	1.69	1.61
4	L	671	U	O3'-P	-5.65	1.52	1.61
5	M	544	U	O3'-P	5.64	1.69	1.61
2	J	130	A	O3'-P	-5.64	1.52	1.61
4	L	478	U	O3'-P	5.63	1.69	1.61
4	L	817	U	O3'-P	5.63	1.69	1.61
5	M	422	U	O3'-P	5.62	1.69	1.61
5	M	433	U	O3'-P	-5.61	1.52	1.61
2	J	223	A	O3'-P	5.58	1.69	1.61
1	I	363	A	O3'-P	-5.58	1.52	1.61
4	L	642	U	O3'-P	-5.57	1.52	1.61
4	L	821	U	O3'-P	5.57	1.69	1.61
3	K	207	A	O3'-P	-5.57	1.52	1.61
1	I	50	A	O3'-P	5.56	1.69	1.61
4	L	578	U	O3'-P	-5.56	1.52	1.61
4	L	467	U	O3'-P	-5.55	1.52	1.61
1	I	321	A	O3'-P	-5.54	1.52	1.61
4	L	694	U	O3'-P	-5.54	1.52	1.61
4	L	797	U	O3'-P	-5.54	1.52	1.61
6	N	380	U	O3'-P	-5.51	1.52	1.61
4	L	759	U	O3'-P	5.51	1.69	1.61
1	I	266	A	O3'-P	5.50	1.69	1.61
5	M	438	U	O3'-P	5.50	1.69	1.61
4	L	538	U	O3'-P	5.47	1.69	1.61
4	L	681	U	O3'-P	5.47	1.69	1.61
3	K	3	A	O3'-P	5.47	1.69	1.61
5	M	396	U	O3'-P	-5.46	1.52	1.61
4	L	450	U	O3'-P	5.45	1.69	1.61
4	L	591	U	O3'-P	-5.45	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	508	U	O3'-P	5.44	1.69	1.61
1	I	181	A	O3'-P	-5.44	1.52	1.61
4	L	596	U	O3'-P	-5.43	1.53	1.61
2	J	181	A	O3'-P	-5.43	1.53	1.61
1	I	55	A	O3'-P	-5.42	1.53	1.61
1	I	258	A	O3'-P	-5.42	1.53	1.61
4	L	660	U	O3'-P	5.41	1.69	1.61
2	J	235	A	O3'-P	-5.36	1.53	1.61
3	K	234	A	O3'-P	5.36	1.69	1.61
4	L	473	U	O3'-P	5.35	1.69	1.61
2	J	38	A	O3'-P	-5.34	1.53	1.61
6	N	297	U	O3'-P	5.32	1.69	1.61
1	I	354	A	O3'-P	5.27	1.69	1.61
3	K	119	A	O3'-P	-5.25	1.53	1.61
4	L	559	U	O3'-P	-5.24	1.53	1.61
5	M	424	U	O3'-P	-5.24	1.53	1.61
2	J	112	A	O3'-P	-5.24	1.53	1.61
6	N	430	U	O3'-P	-5.22	1.53	1.61
1	I	292	A	O3'-P	5.21	1.69	1.61
2	J	183	A	O3'-P	5.19	1.69	1.61
4	L	615	U	O3'-P	-5.19	1.53	1.61
3	K	100	A	O3'-P	-5.18	1.53	1.61
6	N	404	U	O3'-P	-5.17	1.53	1.61
3	K	108	A	O3'-P	-5.16	1.53	1.61
2	J	126	A	O3'-P	-5.16	1.53	1.61
2	J	233	A	O3'-P	5.15	1.68	1.61
4	L	758	U	O3'-P	5.14	1.68	1.61
1	I	405	A	O3'-P	-5.14	1.53	1.61
1	I	365	A	O3'-P	-5.12	1.53	1.61
1	I	340	A	O3'-P	-5.12	1.53	1.61
4	L	569	U	O3'-P	-5.12	1.53	1.61
3	K	136	A	O3'-P	-5.11	1.53	1.61
5	M	466	U	O3'-P	5.10	1.68	1.61
3	K	80	A	O3'-P	-5.10	1.53	1.61
2	J	129	A	O3'-P	-5.09	1.53	1.61
1	I	113	A	O3'-P	-5.09	1.53	1.61
2	J	102	A	O3'-P	-5.08	1.53	1.61
1	I	164	A	O3'-P	5.08	1.68	1.61
3	K	159	A	O3'-P	5.06	1.68	1.61
1	I	31	A	O3'-P	5.03	1.68	1.61
1	I	180	A	O3'-P	-5.02	1.53	1.61
4	L	417	U	O3'-P	5.01	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	56	A	O3'-P	-5.00	1.53	1.61

All (4186) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	425	U	O3'-P-O5'	-42.82	39.77	104.00
4	L	712	U	O3'-P-O5'	-41.72	41.42	104.00
5	M	453	U	O3'-P-O5'	-37.78	47.33	104.00
4	L	811	U	O3'-P-O5'	-36.55	49.18	104.00
4	L	766	U	O3'-P-O5'	-36.06	49.91	104.00
3	K	120	A	P-O3'-C3'	-35.80	66.50	120.20
5	M	328	U	O3'-P-O5'	35.51	157.26	104.00
3	K	105	A	O3'-P-O5'	-35.16	51.26	104.00
3	K	154	A	O3'-P-O5'	-35.14	51.29	104.00
4	L	713	U	O3'-P-O5'	-35.04	51.44	104.00
4	L	711	U	O3'-P-O5'	-34.87	51.69	104.00
1	I	250	A	O3'-P-O5'	-34.70	51.94	104.00
1	I	13	A	O3'-P-O5'	-34.07	52.89	104.00
5	M	488	U	O3'-P-O5'	-33.90	53.16	104.00
1	I	73	A	O3'-P-O5'	-33.85	53.22	104.00
2	J	204	A	O3'-P-O5'	-33.77	53.34	104.00
4	L	722	U	OP2-P-O3'	-33.55	7.35	108.00
4	L	723	U	O3'-P-O5'	-33.53	53.70	104.00
5	M	327	U	O3'-P-O5'	33.17	153.75	104.00
2	J	223	A	P-O3'-C3'	-33.13	70.50	120.20
1	I	261	A	O3'-P-O5'	-32.96	54.56	104.00
1	I	21	A	O3'-P-O5'	-32.38	55.43	104.00
3	K	155	A	O3'-P-O5'	-31.94	56.09	104.00
5	M	454	U	O3'-P-O5'	-31.72	56.42	104.00
1	I	101	A	OP2-P-O3'	-31.59	13.24	108.00
6	N	311	U	O3'-P-O5'	-31.55	56.67	104.00
1	I	14	A	O3'-P-O5'	-31.53	56.71	104.00
6	N	486	U	O3'-P-O5'	-31.41	56.88	104.00
3	K	167	A	P-O3'-C3'	-31.34	73.18	120.20
4	L	758	U	P-O3'-C3'	-31.16	73.45	120.20
4	L	706	U	P-O3'-C3'	-31.12	73.52	120.20
1	I	67	A	O3'-P-O5'	-31.12	57.32	104.00
6	N	278	U	P-O3'-C3'	-31.12	73.52	120.20
6	N	424	U	O3'-P-O5'	-31.11	57.34	104.00
4	L	763	U	O3'-P-O5'	-30.89	57.67	104.00
2	J	92	A	OP2-P-O3'	-30.86	15.42	108.00
6	N	473	U	O3'-P-O5'	-30.86	57.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	450	U	O3'-P-O5'	-30.79	57.81	104.00
3	K	106	A	O3'-P-O5'	-30.73	57.90	104.00
6	N	305	U	O3'-P-O5'	-30.68	57.97	104.00
2	J	51	A	O3'-P-O5'	-30.65	58.03	104.00
1	I	113	A	O3'-P-O5'	-30.58	58.13	104.00
1	I	74	A	O3'-P-O5'	-30.30	58.55	104.00
5	M	510	U	O3'-P-O5'	-30.15	58.77	104.00
5	M	337	U	P-O3'-C3'	-30.14	74.99	120.20
2	J	171	A	OP2-P-O3'	-29.99	18.04	108.00
6	N	316	U	O3'-P-O5'	-29.79	59.31	104.00
5	M	329	U	O3'-P-O5'	29.69	148.53	104.00
3	K	102	A	O3'-P-O5'	29.59	148.38	104.00
1	I	156	A	O3'-P-O5'	-29.58	59.63	104.00
1	I	186	A	O3'-P-O5'	29.47	148.21	104.00
2	J	145	A	P-O3'-C3'	-29.40	76.10	120.20
2	J	99	A	O3'-P-O5'	-29.19	60.21	104.00
2	J	42	A	O3'-P-O5'	-29.17	60.25	104.00
1	I	95	A	OP2-P-O3'	-29.16	20.52	108.00
4	L	757	U	O3'-P-O5'	-29.04	60.45	104.00
4	L	774	U	O3'-P-O5'	28.98	147.47	104.00
3	K	155	A	P-O3'-C3'	-28.97	76.74	120.20
1	I	278	A	O3'-P-O5'	-28.94	60.59	104.00
1	I	140	A	OP2-P-O3'	-28.70	21.90	108.00
5	M	323	U	O3'-P-O5'	-28.70	60.95	104.00
3	K	212	A	O3'-P-O5'	-28.66	61.01	104.00
1	I	66	A	P-O3'-C3'	-28.65	77.22	120.20
4	L	803	U	O3'-P-O5'	-28.65	61.02	104.00
2	J	89	A	O3'-P-O5'	28.48	146.72	104.00
4	L	694	U	P-O3'-C3'	-28.47	77.49	120.20
4	L	810	U	O3'-P-O5'	-28.39	61.41	104.00
4	L	549	U	O3'-P-O5'	-28.34	61.49	104.00
1	I	4	A	OP2-P-O3'	-28.25	23.25	108.00
1	I	68	A	P-O3'-C3'	-28.21	77.89	120.20
6	N	312	U	O3'-P-O5'	-28.14	61.79	104.00
3	K	204	A	O3'-P-O5'	-28.13	61.80	104.00
3	K	89	A	O3'-P-O5'	28.02	146.02	104.00
1	I	245	A	O3'-P-O5'	27.88	145.82	104.00
4	L	728	U	OP2-P-O3'	-27.88	24.35	108.00
4	L	497	U	P-O3'-C3'	-27.82	78.47	120.20
3	K	192	A	O3'-P-O5'	-27.81	62.28	104.00
4	L	751	U	O3'-P-O5'	-27.80	62.30	104.00
4	L	745	U	O3'-P-O5'	27.79	145.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	531	U	P-O3'-C3'	-27.75	78.57	120.20
5	M	465	U	P-O3'-C3'	-27.62	78.77	120.20
5	M	335	U	O3'-P-O5'	-27.60	62.60	104.00
5	M	501	U	O3'-P-O5'	-27.59	62.62	104.00
6	N	410	U	O3'-P-O5'	27.47	145.20	104.00
3	K	96	A	O3'-P-O5'	-27.46	62.82	104.00
3	K	115	A	O3'-P-O5'	-27.44	62.84	104.00
1	I	134	A	OP1-P-O3'	-27.41	25.78	108.00
1	I	43	A	O3'-P-O5'	27.36	145.05	104.00
2	J	6	A	O3'-P-O5'	27.30	144.95	104.00
5	M	324	U	O3'-P-O5'	-27.19	63.21	104.00
3	K	251	A	P-O3'-C3'	-27.18	79.43	120.20
1	I	286	A	O3'-P-O5'	-27.12	63.31	104.00
2	J	159	A	O3'-P-O5'	-27.12	63.32	104.00
4	L	689	U	O3'-P-O5'	27.00	144.49	104.00
1	I	232	A	P-O3'-C3'	-26.96	79.75	120.20
2	J	183	A	P-O3'-C3'	-26.94	79.79	120.20
2	J	29	A	P-O3'-C3'	-26.94	79.80	120.20
3	K	88	A	O3'-P-O5'	26.93	144.40	104.00
1	I	143	A	OP2-P-O3'	-26.90	27.30	108.00
1	I	231	A	P-O3'-C3'	-26.83	79.95	120.20
5	M	348	U	O3'-P-O5'	-26.70	63.94	104.00
3	K	124	A	OP2-P-O3'	-26.68	27.95	108.00
6	N	485	U	O3'-P-O5'	-26.68	63.98	104.00
4	L	435	U	O3'-P-O5'	-26.61	64.08	104.00
5	M	468	U	O3'-P-O5'	26.54	143.81	104.00
5	M	444	U	O3'-P-O5'	26.52	143.78	104.00
3	K	203	A	OP2-P-O3'	-26.45	28.65	108.00
4	L	712	U	P-O3'-C3'	-26.44	80.54	120.20
2	J	236	A	O3'-P-O5'	26.34	143.51	104.00
1	I	329	A	O3'-P-O5'	-26.30	64.56	104.00
4	L	746	U	O3'-P-O5'	26.29	143.43	104.00
4	L	625	U	O3'-P-O5'	26.28	143.42	104.00
1	I	267	A	OP2-P-O3'	-26.28	29.16	108.00
5	M	336	U	O3'-P-O5'	-26.26	64.61	104.00
2	J	97	A	O3'-P-O5'	26.25	143.37	104.00
5	M	523	U	O3'-P-O5'	26.23	143.34	104.00
5	M	493	U	O3'-P-O5'	26.20	143.30	104.00
5	M	489	U	P-O3'-C3'	-26.18	80.94	120.20
5	M	512	U	O3'-P-O5'	-26.12	64.82	104.00
4	L	532	U	P-O3'-C3'	-26.01	81.18	120.20
3	K	100	A	P-O3'-C3'	-26.00	81.21	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	135	A	O3'-P-O5'	25.96	142.94	104.00
6	N	293	U	O3'-P-O5'	-25.93	65.11	104.00
2	J	102	A	O3'-P-O5'	-25.91	65.13	104.00
5	M	336	U	P-O3'-C3'	-25.88	81.39	120.20
5	M	334	U	P-O3'-C3'	-25.77	81.54	120.20
1	I	86	A	P-O3'-C3'	-25.77	81.55	120.20
3	K	150	A	O3'-P-O5'	25.72	142.59	104.00
1	I	16	A	P-O3'-C3'	-25.68	81.68	120.20
4	L	436	U	O3'-P-O5'	-25.67	65.49	104.00
4	L	765	U	P-O3'-C3'	-25.66	81.71	120.20
5	M	538	U	P-O3'-C3'	-25.62	81.78	120.20
3	K	138	A	O3'-P-O5'	25.61	142.42	104.00
1	I	251	A	O3'-P-O5'	-25.61	65.59	104.00
6	N	357	U	O3'-P-O5'	25.48	142.23	104.00
2	J	226	A	O3'-P-O5'	25.47	142.21	104.00
2	J	222	A	P-O3'-C3'	-25.44	82.03	120.20
3	K	44	A	O3'-P-O5'	-25.43	65.85	104.00
1	I	54	A	O3'-P-O5'	25.39	142.08	104.00
5	M	454	U	P-O3'-C3'	-25.37	82.14	120.20
2	J	43	A	P-O3'-C3'	-25.36	82.16	120.20
5	M	537	U	P-O3'-C3'	-25.35	82.17	120.20
4	L	786	U	O3'-P-O5'	25.32	141.98	104.00
6	N	496	U	O3'-P-O5'	-25.30	66.05	104.00
5	M	406	U	O3'-P-O5'	-25.24	66.13	104.00
1	I	72	A	P-O3'-C3'	-25.22	82.38	120.20
2	J	57	A	O3'-P-O5'	25.20	141.79	104.00
4	L	546	U	O3'-P-O5'	-25.18	66.23	104.00
3	K	164	A	P-O3'-C3'	-25.17	82.45	120.20
3	K	254	A	P-O3'-C3'	-25.15	82.47	120.20
3	K	172	A	O3'-P-O5'	25.15	141.72	104.00
5	M	338	U	O3'-P-O5'	25.15	141.72	104.00
4	L	767	U	OP2-P-O3'	-25.12	32.65	108.00
1	I	78	A	O3'-P-O5'	25.07	141.61	104.00
6	N	526	U	O3'-P-O5'	-25.05	66.42	104.00
1	I	342	A	P-O3'-C3'	-25.05	82.63	120.20
1	I	283	A	OP2-P-O3'	-25.02	32.95	108.00
6	N	364	U	O3'-P-O5'	25.01	141.52	104.00
1	I	82	A	O3'-P-O5'	-25.00	66.50	104.00
1	I	376	A	OP2-P-O3'	-24.97	33.08	108.00
2	J	85	A	O3'-P-O5'	24.97	141.46	104.00
1	I	135	A	P-O3'-C3'	-24.95	82.78	120.20
1	I	388	A	O3'-P-O5'	-24.83	66.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	101	A	P-O3'-C3'	-24.79	83.01	120.20
1	I	65	A	P-O3'-C3'	-24.78	83.03	120.20
2	J	83	A	OP2-P-O3'	-24.73	33.82	108.00
5	M	335	U	P-O3'-C3'	-24.72	83.12	120.20
1	I	128	A	P-O3'-C3'	-24.71	83.13	120.20
5	M	511	U	O3'-P-O5'	-24.71	66.94	104.00
5	M	410	U	O3'-P-O5'	-24.70	66.95	104.00
6	N	468	U	O3'-P-O5'	24.68	141.02	104.00
6	N	417	U	O3'-P-O5'	-24.64	67.03	104.00
1	I	277	A	O3'-P-O5'	-24.62	67.07	104.00
2	J	160	A	O3'-P-O5'	-24.59	67.12	104.00
4	L	742	U	OP2-P-O3'	-24.58	34.27	108.00
1	I	198	A	O3'-P-O5'	24.55	140.82	104.00
1	I	358	A	O3'-P-O5'	24.53	140.79	104.00
3	K	154	A	P-O3'-C3'	-24.52	83.42	120.20
4	L	516	U	O3'-P-O5'	-24.49	67.27	104.00
2	J	216	A	OP2-P-O3'	-24.47	34.58	108.00
3	K	97	A	O3'-P-O5'	-24.47	67.30	104.00
1	I	20	A	O3'-P-O5'	-24.44	67.34	104.00
4	L	611	U	O3'-P-O5'	-24.43	67.35	104.00
4	L	574	U	O3'-P-O5'	-24.43	67.36	104.00
1	I	282	A	O3'-P-O5'	24.38	140.57	104.00
4	L	764	U	O3'-P-O5'	-24.37	67.45	104.00
5	M	495	U	P-O3'-C3'	-24.37	83.65	120.20
3	K	117	A	O3'-P-O5'	24.36	140.53	104.00
4	L	554	U	OP2-P-O3'	-24.30	35.09	108.00
6	N	333	U	O3'-P-O5'	-24.21	67.68	104.00
1	I	240	A	O3'-P-O5'	24.19	140.28	104.00
3	K	119	A	P-O3'-C3'	-24.14	84.00	120.20
1	I	205	A	O3'-P-O5'	24.12	140.18	104.00
2	J	182	A	O3'-P-O5'	-24.11	67.84	104.00
3	K	54	A	O3'-P-O5'	24.08	140.12	104.00
2	J	225	A	O3'-P-O5'	24.06	140.09	104.00
4	L	764	U	P-O3'-C3'	-24.05	84.13	120.20
5	M	426	U	O3'-P-O5'	24.04	140.06	104.00
2	J	86	A	O3'-P-O5'	24.03	140.04	104.00
5	M	379	U	O3'-P-O5'	-24.02	67.97	104.00
5	M	496	U	O3'-P-O5'	23.96	139.94	104.00
3	K	100	A	O3'-P-O5'	-23.91	68.14	104.00
4	L	628	U	O3'-P-O5'	23.88	139.82	104.00
2	J	237	A	O3'-P-O5'	23.85	139.78	104.00
1	I	70	A	O3'-P-O5'	-23.83	68.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	530	U	P-O3'-C3'	-23.82	84.47	120.20
2	J	118	A	O3'-P-O5'	23.78	139.68	104.00
1	I	175	A	OP2-P-O3'	-23.75	36.74	108.00
1	I	322	A	P-O3'-C3'	-23.73	84.61	120.20
1	I	269	A	P-O3'-C3'	-23.72	84.61	120.20
4	L	759	U	P-O3'-C3'	-23.71	84.64	120.20
2	J	173	A	O3'-P-O5'	-23.70	68.44	104.00
1	I	31	A	O3'-P-O5'	23.66	139.50	104.00
6	N	332	U	O3'-P-O5'	-23.62	68.56	104.00
1	I	162	A	P-O3'-C3'	-23.59	84.82	120.20
5	M	518	U	O3'-P-O5'	23.59	139.38	104.00
4	L	681	U	O3'-P-O5'	-23.57	68.64	104.00
4	L	758	U	O3'-P-O5'	-23.54	68.69	104.00
3	K	213	A	O3'-P-O5'	-23.53	68.70	104.00
4	L	713	U	P-O3'-C3'	-23.52	84.92	120.20
5	M	334	U	O3'-P-O5'	-23.51	68.73	104.00
1	I	228	A	O3'-P-O5'	-23.50	68.75	104.00
2	J	236	A	OP2-P-O3'	-23.49	37.53	108.00
6	N	317	U	O3'-P-O5'	-23.48	68.78	104.00
2	J	55	A	O3'-P-O5'	-23.42	68.87	104.00
3	K	164	A	O3'-P-O5'	-23.40	68.90	104.00
1	I	344	A	O3'-P-O5'	23.39	139.08	104.00
1	I	46	A	O3'-P-O5'	23.34	139.01	104.00
1	I	44	A	O3'-P-O5'	23.30	138.96	104.00
5	M	330	U	O3'-P-O5'	23.30	138.96	104.00
6	N	327	U	O3'-P-O5'	-23.25	69.13	104.00
4	L	599	U	O3'-P-O5'	-23.22	69.17	104.00
1	I	280	A	OP2-P-O3'	-23.20	38.40	108.00
1	I	15	A	P-O3'-C3'	-23.19	85.42	120.20
6	N	279	U	P-O3'-C3'	-23.17	85.44	120.20
4	L	811	U	P-O3'-C3'	-23.16	85.47	120.20
6	N	392	U	O3'-P-O5'	23.16	138.74	104.00
2	J	24	A	O3'-P-O5'	23.15	138.73	104.00
6	N	460	U	OP2-P-O3'	-23.13	38.61	108.00
2	J	13	A	O3'-P-O5'	23.12	138.68	104.00
4	L	523	U	O3'-P-O5'	23.11	138.66	104.00
5	M	466	U	P-O3'-C3'	-23.10	85.55	120.20
2	J	228	A	O3'-P-O5'	-23.06	69.41	104.00
5	M	377	U	O3'-P-O5'	-23.03	69.46	104.00
4	L	501	U	O3'-P-O5'	23.02	138.52	104.00
6	N	338	U	O3'-P-O5'	-23.02	69.48	104.00
2	J	61	A	O3'-P-O5'	23.00	138.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	807	U	P-O3'-C3'	-23.00	85.70	120.20
6	N	321	U	O3'-P-O5'	-23.00	69.50	104.00
2	J	34	A	O3'-P-O5'	22.99	138.48	104.00
6	N	484	U	O3'-P-O5'	-22.98	69.53	104.00
2	J	55	A	P-O3'-C3'	-22.97	85.74	120.20
6	N	329	U	O3'-P-O5'	-22.96	69.56	104.00
5	M	360	U	O3'-P-O5'	22.96	138.44	104.00
3	K	87	A	P-O3'-C3'	-22.94	85.79	120.20
2	J	180	A	O3'-P-O5'	22.91	138.37	104.00
6	N	451	U	O3'-P-O5'	-22.85	69.72	104.00
5	M	392	U	O3'-P-O5'	-22.84	69.75	104.00
4	L	675	U	P-O3'-C3'	-22.80	86.00	120.20
1	I	340	A	O3'-P-O5'	22.77	138.15	104.00
1	I	266	A	P-O3'-C3'	-22.76	86.06	120.20
4	L	741	U	O3'-P-O5'	22.76	138.14	104.00
4	L	548	U	O3'-P-O5'	-22.72	69.92	104.00
4	L	737	U	O3'-P-O5'	22.70	138.05	104.00
3	K	117	A	OP2-P-O3'	-22.70	39.90	108.00
4	L	547	U	O3'-P-O5'	-22.69	69.97	104.00
4	L	750	U	OP2-P-O3'	-22.66	40.01	108.00
4	L	530	U	P-O3'-C3'	-22.66	86.21	120.20
5	M	368	U	P-O3'-C3'	-22.64	86.23	120.20
5	M	406	U	P-O3'-C3'	-22.64	86.24	120.20
3	K	253	A	P-O3'-C3'	-22.63	86.26	120.20
6	N	416	U	O3'-P-O5'	-22.56	70.15	104.00
1	I	287	A	O3'-P-O5'	-22.56	70.16	104.00
2	J	116	A	OP2-P-O3'	-22.56	40.33	108.00
6	N	365	U	O3'-P-O5'	22.53	137.80	104.00
1	I	179	A	P-O3'-C3'	-22.52	86.41	120.20
5	M	489	U	O3'-P-O5'	-22.52	70.21	104.00
1	I	175	A	O3'-P-O5'	22.51	137.76	104.00
4	L	685	U	O3'-P-O5'	22.48	137.72	104.00
1	I	271	A	O3'-P-O5'	22.48	137.72	104.00
1	I	110	A	O3'-P-O5'	-22.46	70.31	104.00
4	L	472	U	OP2-P-O3'	-22.44	40.67	108.00
5	M	474	U	O3'-P-O5'	22.41	137.62	104.00
3	K	121	A	P-O3'-C3'	-22.39	86.62	120.20
4	L	480	U	O3'-P-O5'	22.37	137.56	104.00
4	L	754	U	O3'-P-O5'	-22.36	70.47	104.00
4	L	637	U	O3'-P-O5'	-22.34	70.49	104.00
4	L	779	U	P-O3'-C3'	-22.33	86.71	120.20
2	J	186	A	P-O3'-C3'	-22.28	86.78	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	165	A	OP2-P-O3'	-22.25	41.25	108.00
5	M	317	U	O3'-P-O5'	22.25	137.37	104.00
3	K	109	A	P-O3'-C3'	-22.24	86.84	120.20
2	J	123	A	O3'-P-O5'	-22.19	70.71	104.00
6	N	445	U	O3'-P-O5'	22.18	137.27	104.00
4	L	448	U	OP2-P-O3'	-22.17	41.49	108.00
4	L	699	U	P-O3'-C3'	-22.17	86.95	120.20
5	M	488	U	P-O3'-C3'	-22.14	86.99	120.20
1	I	129	A	P-O3'-C3'	-22.12	87.01	120.20
2	J	188	A	O3'-P-O5'	22.12	137.19	104.00
3	K	156	A	O3'-P-O5'	-22.06	70.91	104.00
4	L	479	U	O3'-P-O5'	22.03	137.04	104.00
4	L	421	U	O3'-P-O5'	-21.99	71.01	104.00
1	I	112	A	O3'-P-O5'	-21.99	71.02	104.00
3	K	206	A	O3'-P-O5'	-21.98	71.03	104.00
5	M	480	U	OP2-P-O3'	-21.95	42.14	108.00
3	K	205	A	O3'-P-O5'	-21.93	71.10	104.00
1	I	137	A	P-O3'-C3'	-21.92	87.32	120.20
5	M	393	U	O3'-P-O5'	-21.89	71.16	104.00
1	I	128	A	O3'-P-O5'	-21.84	71.23	104.00
6	N	434	U	O3'-P-O5'	-21.84	71.24	104.00
5	M	319	U	P-O3'-C3'	-21.79	87.52	120.20
1	I	130	A	O3'-P-O5'	21.78	136.67	104.00
3	K	171	A	O3'-P-O5'	21.78	136.67	104.00
2	J	201	A	P-O3'-C3'	-21.76	87.56	120.20
1	I	164	A	OP2-P-O3'	-21.74	42.77	108.00
1	I	233	A	P-O3'-C3'	-21.74	87.58	120.20
4	L	724	U	P-O3'-C3'	-21.73	87.60	120.20
3	K	89	A	OP2-P-O3'	-21.72	42.85	108.00
1	I	375	A	O3'-P-O5'	21.71	136.57	104.00
4	L	496	U	O3'-P-O5'	-21.70	71.45	104.00
1	I	66	A	O3'-P-O5'	-21.70	71.45	104.00
1	I	220	A	O3'-P-O5'	21.68	136.52	104.00
5	M	547	U	O3'-P-O5'	21.63	136.44	104.00
1	I	349	A	P-O3'-C3'	-21.62	87.77	120.20
2	J	182	A	P-O3'-C3'	-21.62	87.77	120.20
1	I	159	A	O3'-P-O5'	21.61	136.41	104.00
6	N	440	U	P-O3'-C3'	-21.61	87.79	120.20
1	I	61	A	O3'-P-O5'	-21.60	71.60	104.00
5	M	469	U	OP2-P-O3'	-21.58	43.25	108.00
2	J	54	A	O3'-P-O5'	-21.57	71.64	104.00
5	M	361	U	O3'-P-O5'	21.57	136.36	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	25	A	O3'-P-O5'	21.56	136.34	104.00
4	L	787	U	O3'-P-O5'	21.55	136.32	104.00
1	I	213	A	O3'-P-O5'	-21.54	71.68	104.00
2	J	210	A	O3'-P-O5'	-21.54	71.70	104.00
1	I	329	A	P-O3'-C3'	-21.53	87.91	120.20
4	L	563	U	O3'-P-O5'	-21.50	71.75	104.00
3	K	5	A	O3'-P-O5'	-21.47	71.79	104.00
5	M	387	U	OP2-P-O3'	-21.43	43.71	108.00
5	M	531	U	P-O3'-C3'	-21.43	88.06	120.20
1	I	267	A	O3'-P-O5'	21.40	136.10	104.00
3	K	97	A	P-O3'-C3'	-21.39	88.11	120.20
4	L	586	U	O3'-P-O5'	-21.37	71.94	104.00
2	J	205	A	P-O3'-C3'	-21.36	88.16	120.20
1	I	334	A	P-O3'-C3'	-21.31	88.23	120.20
1	I	206	A	O3'-P-O5'	21.30	135.95	104.00
5	M	490	U	O3'-P-O5'	21.30	135.95	104.00
6	N	443	U	P-O3'-C3'	-21.30	88.25	120.20
1	I	43	A	OP2-P-O3'	-21.26	44.22	108.00
6	N	446	U	O3'-P-O5'	21.26	135.89	104.00
1	I	115	A	O3'-P-O5'	21.25	135.87	104.00
1	I	181	A	P-O3'-C3'	-21.21	88.38	120.20
2	J	204	A	P-O3'-C3'	-21.19	88.42	120.20
3	K	108	A	P-O3'-C3'	-21.19	88.42	120.20
1	I	84	A	O3'-P-O5'	21.15	135.72	104.00
5	M	333	U	P-O3'-C3'	-21.12	88.52	120.20
4	L	642	U	P-O3'-C3'	-21.11	88.54	120.20
3	K	45	A	O3'-P-O5'	-21.09	72.37	104.00
5	M	464	U	O3'-P-O5'	21.07	135.60	104.00
2	J	128	A	P-O3'-C3'	-21.06	88.61	120.20
6	N	411	U	O3'-P-O5'	21.02	135.53	104.00
5	M	350	U	P-O3'-C3'	-21.02	88.68	120.20
1	I	53	A	O3'-P-O5'	20.99	135.49	104.00
4	L	422	U	O3'-P-O5'	-20.99	72.52	104.00
2	J	73	A	O3'-P-O5'	20.99	135.48	104.00
4	L	573	U	O3'-P-O5'	-20.98	72.53	104.00
1	I	219	A	O3'-P-O5'	20.97	135.45	104.00
2	J	89	A	OP2-P-O3'	-20.96	45.13	108.00
5	M	334	U	OP2-P-O3'	20.96	170.87	108.00
1	I	341	A	P-O3'-C3'	-20.95	88.77	120.20
4	L	447	U	O3'-P-O5'	20.94	135.41	104.00
4	L	478	U	P-O3'-C3'	-20.91	88.83	120.20
1	I	345	A	O3'-P-O5'	20.90	135.35	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	638	U	P-O3'-C3'	-20.87	88.89	120.20
4	L	727	U	O3'-P-O5'	20.85	135.28	104.00
1	I	71	A	P-O3'-C3'	-20.85	88.92	120.20
2	J	60	A	O3'-P-O5'	20.85	135.27	104.00
4	L	804	U	O3'-P-O5'	-20.83	72.75	104.00
2	J	215	A	O3'-P-O5'	20.82	135.23	104.00
5	M	354	U	O3'-P-O5'	20.82	135.23	104.00
1	I	47	A	O3'-P-O5'	20.81	135.21	104.00
3	K	65	A	P-O3'-C3'	-20.80	89.00	120.20
2	J	210	A	P-O3'-C3'	-20.80	89.01	120.20
4	L	551	U	O3'-P-O5'	20.79	135.19	104.00
1	I	31	A	OP2-P-O3'	-20.79	45.63	108.00
2	J	229	A	O3'-P-O5'	-20.78	72.83	104.00
6	N	328	U	O3'-P-O5'	-20.78	72.83	104.00
3	K	247	A	O3'-P-O5'	20.77	135.16	104.00
1	I	286	A	P-O3'-C3'	-20.77	89.05	120.20
3	K	80	A	O3'-P-O5'	-20.74	72.89	104.00
5	M	457	U	P-O3'-C3'	-20.72	89.12	120.20
6	N	393	U	O3'-P-O5'	20.72	135.08	104.00
3	K	71	A	OP2-P-O3'	-20.71	45.88	108.00
6	N	398	U	O3'-P-O5'	20.69	135.04	104.00
2	J	12	A	P-O3'-C3'	-20.68	89.18	120.20
2	J	47	A	P-O3'-C3'	-20.67	89.19	120.20
2	J	43	A	O3'-P-O5'	-20.67	73.00	104.00
2	J	224	A	P-O3'-C3'	-20.66	89.20	120.20
1	I	15	A	O3'-P-O5'	-20.65	73.03	104.00
2	J	200	A	O3'-P-O5'	20.62	134.93	104.00
4	L	724	U	O3'-P-O5'	-20.62	73.07	104.00
4	L	437	U	OP2-P-O3'	-20.61	46.17	108.00
6	N	451	U	P-O3'-C3'	-20.61	89.29	120.20
6	N	428	U	O3'-P-O5'	20.58	134.87	104.00
5	M	299	U	O3'-P-O5'	-20.57	73.14	104.00
6	N	310	U	O3'-P-O5'	-20.57	73.14	104.00
1	I	50	A	O3'-P-O5'	20.56	134.84	104.00
5	M	438	U	P-O3'-C3'	-20.55	89.38	120.20
1	I	67	A	P-O3'-C3'	-20.54	89.39	120.20
3	K	53	A	O3'-P-O5'	20.54	134.81	104.00
2	J	38	A	O3'-P-O5'	20.53	134.79	104.00
5	M	437	U	P-O3'-C3'	-20.53	89.41	120.20
1	I	54	A	OP2-P-O3'	-20.52	46.44	108.00
5	M	386	U	OP2-P-O3'	-20.45	46.64	108.00
1	I	259	A	P-O3'-C3'	-20.43	89.56	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	243	A	P-O3'-C3'	-20.40	89.59	120.20
5	M	349	U	P-O3'-C3'	-20.40	89.60	120.20
3	K	98	A	P-O3'-C3'	-20.40	89.61	120.20
2	J	216	A	O3'-P-O5'	20.39	134.59	104.00
2	J	28	A	P-O3'-C3'	-20.39	89.62	120.20
3	K	248	A	O3'-P-O5'	20.38	134.57	104.00
1	I	231	A	O3'-P-O5'	-20.38	73.43	104.00
6	N	358	U	O3'-P-O5'	20.37	134.55	104.00
5	M	450	U	O3'-P-O5'	-20.34	73.48	104.00
6	N	442	U	P-O3'-C3'	-20.32	89.71	120.20
1	I	282	A	OP2-P-O3'	-20.32	47.04	108.00
2	J	46	A	O3'-P-O5'	20.30	134.46	104.00
4	L	819	U	OP2-P-O3'	-20.28	47.16	108.00
5	M	319	U	O3'-P-O5'	-20.27	73.59	104.00
5	M	299	U	P-O3'-C3'	-20.26	89.81	120.20
5	M	498	U	OP2-P-O3'	-20.24	47.29	108.00
6	N	391	U	O3'-P-O5'	20.23	134.34	104.00
1	I	71	A	O3'-P-O5'	-20.22	73.67	104.00
1	I	134	A	O3'-P-O5'	20.20	134.30	104.00
4	L	556	U	O3'-P-O5'	20.18	134.28	104.00
5	M	444	U	OP2-P-O3'	-20.18	47.46	108.00
2	J	179	A	O3'-P-O5'	20.18	134.27	104.00
1	I	265	A	P-O3'-C3'	-20.16	89.96	120.20
4	L	587	U	O3'-P-O5'	-20.13	73.81	104.00
1	I	26	A	P-O3'-C3'	-20.13	90.01	120.20
2	J	181	A	O3'-P-O5'	20.09	134.14	104.00
4	L	576	U	P-O3'-C3'	-20.09	90.06	120.20
5	M	519	U	P-O3'-C3'	-20.06	90.11	120.20
4	L	665	U	O3'-P-O5'	20.05	134.08	104.00
5	M	485	U	P-O3'-C3'	-20.05	90.12	120.20
5	M	373	U	P-O3'-C3'	-20.05	90.13	120.20
5	M	547	U	OP2-P-O3'	-20.05	47.86	108.00
5	M	418	U	P-O3'-C3'	-20.03	90.16	120.20
3	K	67	A	O3'-P-O5'	20.02	134.03	104.00
1	I	13	A	P-O3'-C3'	-20.02	90.17	120.20
4	L	719	U	OP2-P-O3'	-20.01	47.97	108.00
1	I	300	A	O3'-P-O5'	19.98	133.97	104.00
4	L	554	U	O3'-P-O5'	19.98	133.97	104.00
1	I	376	A	O3'-P-O5'	19.96	133.93	104.00
1	I	253	A	O3'-P-O5'	-19.95	74.07	104.00
4	L	660	U	O3'-P-O5'	-19.93	74.11	104.00
5	M	468	U	OP2-P-O3'	-19.90	48.30	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	97	A	OP2-P-O3'	-19.90	48.30	108.00
2	J	64	A	O3'-P-O5'	-19.87	74.20	104.00
1	I	393	A	O3'-P-O5'	-19.86	74.20	104.00
2	J	265	A	O3'-P-O5'	19.84	133.75	104.00
2	J	142	A	O3'-P-O5'	-19.83	74.26	104.00
4	L	517	U	O3'-P-O5'	-19.82	74.27	104.00
4	L	705	U	P-O3'-C3'	-19.81	90.48	120.20
3	K	254	A	O3'-P-O5'	-19.81	74.28	104.00
4	L	551	U	OP2-P-O3'	-19.79	48.63	108.00
4	L	812	U	P-O3'-C3'	-19.78	90.52	120.20
1	I	58	A	O3'-P-O5'	-19.77	74.34	104.00
1	I	310	A	P-O3'-C3'	-19.76	90.56	120.20
1	I	222	A	P-O3'-C3'	-19.75	90.57	120.20
1	I	79	A	P-O3'-C3'	-19.75	90.58	120.20
1	I	46	A	OP2-P-O3'	-19.75	48.76	108.00
1	I	14	A	P-O3'-C3'	-19.74	90.59	120.20
4	L	711	U	P-O3'-C3'	-19.71	90.64	120.20
1	I	283	A	O3'-P-O5'	19.71	133.56	104.00
3	K	99	A	P-O3'-C3'	-19.70	90.65	120.20
4	L	517	U	P-O3'-C3'	-19.68	90.68	120.20
3	K	144	A	O3'-P-O5'	-19.68	74.49	104.00
1	I	107	A	O3'-P-O5'	-19.64	74.54	104.00
4	L	780	U	P-O3'-C3'	-19.64	90.74	120.20
1	I	18	A	O3'-P-O5'	-19.63	74.55	104.00
2	J	56	A	P-O3'-C3'	-19.60	90.79	120.20
2	J	178	A	P-O3'-C3'	-19.57	90.85	120.20
6	N	430	U	P-O3'-C3'	-19.56	90.86	120.20
3	K	118	A	P-O3'-C3'	-19.56	90.86	120.20
1	I	187	A	O3'-P-O5'	-19.55	74.68	104.00
1	I	37	A	O3'-P-O5'	19.54	133.31	104.00
1	I	198	A	OP2-P-O3'	-19.50	49.49	108.00
6	N	489	U	O3'-P-O5'	19.49	133.24	104.00
5	M	296	U	P-O3'-C3'	-19.49	90.97	120.20
5	M	443	U	O3'-P-O5'	19.46	133.19	104.00
4	L	577	U	P-O3'-C3'	-19.44	91.03	120.20
2	J	79	A	P-O3'-C3'	-19.43	91.06	120.20
6	N	450	U	P-O3'-C3'	-19.43	91.06	120.20
1	I	303	A	O3'-P-O5'	19.40	133.10	104.00
4	L	672	U	O3'-P-O5'	-19.40	74.90	104.00
1	I	305	A	P-O3'-C3'	-19.40	91.10	120.20
6	N	406	U	O3'-P-O5'	-19.38	74.93	104.00
3	K	147	A	OP2-P-O3'	-19.37	49.88	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	37	A	P-O3'-C3'	-19.36	91.15	120.20
1	I	262	A	P-O3'-C3'	-19.36	91.16	120.20
1	I	49	A	O3'-P-O5'	19.35	133.03	104.00
4	L	680	U	OP2-P-O3'	-19.34	49.99	108.00
5	M	504	U	P-O3'-C3'	-19.33	91.20	120.20
1	I	280	A	O3'-P-O5'	19.32	132.98	104.00
2	J	5	A	O3'-P-O5'	19.31	132.96	104.00
1	I	90	A	O3'-P-O5'	-19.30	75.05	104.00
4	L	620	U	O3'-P-O5'	19.30	132.95	104.00
1	I	10	A	O3'-P-O5'	19.28	132.92	104.00
3	K	146	A	OP2-P-O3'	-19.23	50.31	108.00
5	M	458	U	P-O3'-C3'	-19.23	91.36	120.20
4	L	558	U	P-O3'-C3'	-19.21	91.39	120.20
1	I	152	A	O3'-P-O5'	-19.19	75.22	104.00
2	J	48	A	P-O3'-C3'	-19.18	91.42	120.20
2	J	68	A	P-O3'-C3'	-19.18	91.43	120.20
4	L	755	U	P-O3'-C3'	-19.14	91.49	120.20
6	N	497	U	O3'-P-O5'	-19.14	75.30	104.00
1	I	119	A	P-O3'-C3'	-19.13	91.50	120.20
2	J	207	A	P-O3'-C3'	-19.13	91.50	120.20
4	L	668	U	O3'-P-O5'	-19.13	75.31	104.00
2	J	69	A	P-O3'-C3'	-19.12	91.53	120.20
1	I	321	A	P-O3'-C3'	-19.09	91.57	120.20
4	L	776	U	P-O3'-C3'	-19.09	91.57	120.20
4	L	448	U	O3'-P-O5'	19.07	132.61	104.00
6	N	474	U	O3'-P-O5'	-19.06	75.41	104.00
4	L	747	U	P-O3'-C3'	-19.06	91.61	120.20
4	L	632	U	O3'-P-O5'	19.05	132.58	104.00
4	L	760	U	O3'-P-O5'	-19.03	75.45	104.00
4	L	815	U	P-O3'-C3'	-19.02	91.66	120.20
3	K	214	A	O3'-P-O5'	-19.02	75.48	104.00
1	I	232	A	O3'-P-O5'	-19.00	75.50	104.00
1	I	76	A	P-O3'-C3'	-18.98	91.73	120.20
4	L	521	U	P-O3'-C3'	-18.98	91.74	120.20
2	J	126	A	P-O3'-C3'	-18.97	91.75	120.20
1	I	106	A	O3'-P-O5'	18.95	132.42	104.00
1	I	197	A	O3'-P-O5'	18.92	132.38	104.00
1	I	238	A	O3'-P-O5'	-18.89	75.67	104.00
3	K	146	A	O3'-P-O5'	18.88	132.33	104.00
1	I	348	A	P-O3'-C3'	-18.88	91.89	120.20
1	I	82	A	P-O3'-C3'	-18.87	91.89	120.20
2	J	70	A	P-O3'-C3'	-18.87	91.90	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	498	U	P-O3'-C3'	-18.85	91.92	120.20
1	I	161	A	O3'-P-O5'	-18.84	75.74	104.00
2	J	115	A	O3'-P-O5'	18.84	132.26	104.00
4	L	695	U	P-O3'-C3'	-18.83	91.95	120.20
5	M	529	U	O3'-P-O5'	18.83	132.25	104.00
6	N	431	U	P-O3'-C3'	-18.80	92.00	120.20
4	L	806	U	O3'-P-O5'	-18.80	75.80	104.00
3	K	168	A	O3'-P-O5'	-18.80	75.80	104.00
4	L	739	U	O3'-P-O5'	18.79	132.19	104.00
1	I	258	A	P-O3'-C3'	-18.79	92.02	120.20
3	K	46	A	O3'-P-O5'	-18.79	75.82	104.00
3	K	246	A	O3'-P-O5'	18.79	132.18	104.00
1	I	324	A	O3'-P-O5'	18.78	132.17	104.00
1	I	310	A	O3'-P-O5'	-18.78	75.83	104.00
4	L	596	U	O3'-P-O5'	-18.76	75.86	104.00
1	I	256	A	P-O3'-C3'	-18.73	92.11	120.20
1	I	323	A	P-O3'-C3'	-18.72	92.12	120.20
1	I	250	A	P-O3'-C3'	-18.71	92.13	120.20
5	M	534	U	OP2-P-O3'	-18.69	51.93	108.00
3	K	165	A	P-O3'-C3'	-18.69	92.17	120.20
1	I	404	A	O3'-P-O5'	-18.66	76.02	104.00
1	I	77	A	P-O3'-C3'	-18.66	92.22	120.20
6	N	459	U	OP2-P-O3'	-18.63	52.11	108.00
1	I	270	A	O3'-P-O5'	-18.62	76.06	104.00
1	I	302	A	O3'-P-O5'	18.62	131.93	104.00
5	M	288	U	O3'-P-O5'	-18.59	76.11	104.00
1	I	260	A	P-O3'-C3'	-18.59	92.32	120.20
4	L	714	U	O3'-P-O5'	-18.58	76.12	104.00
5	M	319	U	OP2-P-O3'	18.56	163.67	108.00
6	N	356	U	O3'-P-O5'	18.53	131.79	104.00
3	K	54	A	OP2-P-O3'	-18.52	52.42	108.00
1	I	354	A	P-O3'-C3'	-18.52	92.42	120.20
4	L	537	U	O3'-P-O5'	-18.51	76.24	104.00
1	I	269	A	O3'-P-O5'	-18.50	76.25	104.00
5	M	339	U	P-O3'-C3'	-18.47	92.49	120.20
5	M	359	U	O3'-P-O5'	18.45	131.68	104.00
6	N	426	U	O3'-P-O5'	-18.45	76.33	104.00
5	M	369	U	O3'-P-O5'	18.44	131.66	104.00
4	L	671	U	O3'-P-O5'	-18.43	76.35	104.00
4	L	516	U	P-O3'-C3'	-18.38	92.62	120.20
6	N	430	U	O3'-P-O5'	-18.37	76.45	104.00
2	J	84	A	P-O3'-C3'	-18.35	92.67	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	136	A	P-O3'-C3'	-18.35	92.67	120.20
1	I	148	A	P-O3'-C3'	-18.35	92.68	120.20
3	K	167	A	O3'-P-O5'	-18.33	76.51	104.00
1	I	64	A	O3'-P-O5'	-18.32	76.52	104.00
4	L	500	U	P-O3'-C3'	-18.32	92.72	120.20
4	L	734	U	O3'-P-O5'	-18.32	76.53	104.00
5	M	502	U	O3'-P-O5'	18.31	131.46	104.00
4	L	424	U	O3'-P-O5'	-18.30	76.55	104.00
3	K	168	A	P-O3'-C3'	-18.30	92.76	120.20
5	M	347	U	P-O3'-C3'	-18.30	92.76	120.20
2	J	11	A	O3'-P-O5'	-18.27	76.59	104.00
6	N	421	U	P-O3'-C3'	-18.27	92.80	120.20
1	I	40	A	O3'-P-O5'	18.27	131.40	104.00
6	N	315	U	O3'-P-O5'	-18.27	76.60	104.00
1	I	240	A	OP2-P-O3'	-18.26	53.21	108.00
5	M	397	U	O3'-P-O5'	-18.25	76.62	104.00
1	I	332	A	P-O3'-C3'	-18.23	92.86	120.20
2	J	44	A	P-O3'-C3'	-18.21	92.88	120.20
4	L	704	U	P-O3'-C3'	-18.20	92.89	120.20
5	M	429	U	O3'-P-O5'	-18.20	76.70	104.00
5	M	372	U	P-O3'-C3'	-18.19	92.91	120.20
6	N	302	U	O3'-P-O5'	-18.19	76.71	104.00
5	M	354	U	OP2-P-O3'	-18.18	53.47	108.00
1	I	133	A	O3'-P-O5'	-18.16	76.76	104.00
6	N	527	U	O3'-P-O5'	-18.14	76.79	104.00
4	L	695	U	O3'-P-O5'	18.10	131.15	104.00
1	I	17	A	O3'-P-O5'	18.09	131.14	104.00
4	L	566	U	P-O3'-C3'	-18.07	93.09	120.20
4	L	782	U	O3'-P-O5'	18.07	131.11	104.00
5	M	506	U	O3'-P-O5'	18.06	131.09	104.00
1	I	18	A	P-O3'-C3'	-18.06	93.11	120.20
5	M	297	U	P-O3'-C3'	-18.05	93.13	120.20
4	L	582	U	O3'-P-O5'	18.03	131.05	104.00
1	I	264	A	O3'-P-O5'	18.03	131.05	104.00
1	I	69	A	P-O3'-C3'	-18.03	93.16	120.20
2	J	219	A	P-O3'-C3'	-18.02	93.17	120.20
1	I	273	A	O3'-P-O5'	-18.01	76.98	104.00
4	L	742	U	O3'-P-O5'	18.00	131.00	104.00
3	K	138	A	OP2-P-O3'	-18.00	54.02	108.00
4	L	773	U	O3'-P-O5'	17.93	130.89	104.00
6	N	326	U	O3'-P-O5'	-17.92	77.11	104.00
4	L	775	U	P-O3'-C3'	-17.92	93.32	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	320	U	P-O3'-C3'	-17.91	93.33	120.20
4	L	471	U	O3'-P-O5'	17.90	130.85	104.00
1	I	322	A	O3'-P-O5'	-17.90	77.16	104.00
3	K	181	A	OP2-P-O3'	-17.90	54.31	108.00
3	K	250	A	P-O3'-C3'	-17.89	93.37	120.20
3	K	38	A	O3'-P-O5'	17.88	130.81	104.00
4	L	788	U	O3'-P-O5'	17.87	130.81	104.00
3	K	202	A	O3'-P-O5'	-17.87	77.20	104.00
6	N	477	U	P-O3'-C3'	-17.86	93.42	120.20
6	N	476	U	P-O3'-C3'	-17.84	93.43	120.20
6	N	306	U	O3'-P-O5'	-17.84	77.24	104.00
6	N	408	U	O3'-P-O5'	17.84	130.75	104.00
1	I	263	A	O3'-P-O5'	17.83	130.74	104.00
4	L	515	U	O3'-P-O5'	-17.82	77.28	104.00
6	N	435	U	O3'-P-O5'	17.81	130.71	104.00
4	L	456	U	O3'-P-O5'	17.79	130.69	104.00
4	L	685	U	OP2-P-O3'	-17.79	54.63	108.00
5	M	453	U	P-O3'-C3'	-17.79	93.52	120.20
2	J	45	A	O3'-P-O5'	17.76	130.65	104.00
5	M	534	U	O3'-P-O5'	17.76	130.64	104.00
1	I	243	A	O3'-P-O5'	-17.76	77.36	104.00
6	N	458	U	OP2-P-O3'	-17.75	54.75	108.00
3	K	199	A	O3'-P-O5'	-17.73	77.40	104.00
4	L	639	U	P-O3'-C3'	-17.73	93.61	120.20
1	I	343	A	P-O3'-C3'	-17.72	93.62	120.20
2	J	206	A	P-O3'-C3'	-17.69	93.66	120.20
6	N	277	U	P-O3'-C3'	-17.69	93.66	120.20
4	L	508	U	P-O3'-C3'	-17.68	93.67	120.20
2	J	258	A	P-O3'-C3'	-17.66	93.71	120.20
2	J	43	A	OP2-P-O3'	17.65	160.95	108.00
5	M	507	U	O3'-P-O5'	17.63	130.45	104.00
6	N	396	U	P-O3'-C3'	-17.62	93.77	120.20
1	I	403	A	O3'-P-O5'	-17.60	77.59	104.00
5	M	530	U	O3'-P-O5'	-17.60	77.60	104.00
5	M	445	U	O3'-P-O5'	17.59	130.38	104.00
2	J	193	A	P-O3'-C3'	-17.58	93.83	120.20
4	L	776	U	O3'-P-O5'	-17.56	77.66	104.00
3	K	74	A	P-O3'-C3'	-17.54	93.90	120.20
6	N	444	U	O3'-P-O5'	17.53	130.29	104.00
1	I	170	A	O3'-P-O5'	17.52	130.28	104.00
5	M	511	U	P-O3'-C3'	-17.52	93.92	120.20
4	L	799	U	O3'-P-O5'	17.51	130.27	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	699	U	O3'-P-O5'	-17.50	77.75	104.00
2	J	109	A	O3'-P-O5'	17.50	130.25	104.00
3	K	147	A	O3'-P-O5'	17.49	130.23	104.00
4	L	588	U	O3'-P-O5'	17.49	130.23	104.00
5	M	409	U	O3'-P-O5'	17.49	130.23	104.00
3	K	100	A	OP2-P-O3'	17.46	160.39	108.00
1	I	83	A	P-O3'-C3'	-17.45	94.02	120.20
6	N	439	U	P-O3'-C3'	-17.45	94.03	120.20
6	N	280	U	P-O3'-C3'	-17.43	94.06	120.20
2	J	220	A	P-O3'-C3'	-17.41	94.08	120.20
1	I	84	A	OP2-P-O3'	-17.41	55.78	108.00
4	L	723	U	P-O3'-C3'	-17.40	94.10	120.20
1	I	38	A	O3'-P-O5'	17.39	130.09	104.00
6	N	295	U	O3'-P-O5'	17.38	130.07	104.00
5	M	480	U	O3'-P-O5'	17.36	130.04	104.00
4	L	497	U	OP2-P-O3'	17.36	160.08	108.00
1	I	319	A	P-O3'-C3'	-17.35	94.17	120.20
2	J	150	A	O3'-P-O5'	17.35	130.02	104.00
1	I	174	A	P-O3'-C3'	-17.34	94.19	120.20
6	N	313	U	O3'-P-O5'	-17.34	77.99	104.00
2	J	205	A	OP2-P-O3'	17.30	159.91	108.00
4	L	459	U	O3'-P-O5'	-17.30	78.05	104.00
5	M	478	U	O3'-P-O5'	17.29	129.94	104.00
5	M	352	U	O3'-P-O5'	17.29	129.94	104.00
4	L	504	U	P-O3'-C3'	-17.27	94.29	120.20
4	L	631	U	O3'-P-O5'	17.27	129.90	104.00
4	L	707	U	P-O3'-C3'	-17.26	94.31	120.20
4	L	738	U	O3'-P-O5'	17.26	129.88	104.00
5	M	322	U	O3'-P-O5'	-17.24	78.13	104.00
2	J	62	A	P-O3'-C3'	-17.24	94.34	120.20
3	K	73	A	O3'-P-O5'	-17.24	78.15	104.00
1	I	316	A	P-O3'-C3'	-17.18	94.43	120.20
4	L	819	U	O3'-P-O5'	17.18	129.76	104.00
3	K	62	A	O3'-P-O5'	17.17	129.76	104.00
2	J	129	A	P-O3'-C3'	-17.16	94.46	120.20
4	L	719	U	O3'-P-O5'	17.16	129.73	104.00
1	I	232	A	OP2-P-O3'	17.15	159.45	108.00
1	I	47	A	OP2-P-O3'	-17.14	56.56	108.00
6	N	379	U	P-O3'-C3'	-17.14	94.49	120.20
4	L	593	U	P-O3'-C3'	-17.14	94.49	120.20
4	L	549	U	P-O3'-C3'	-17.12	94.52	120.20
1	I	245	A	OP2-P-O3'	-17.11	56.66	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	315	A	O3'-P-O5'	-17.11	78.33	104.00
3	K	135	A	OP2-P-O3'	-17.09	56.72	108.00
5	M	423	U	O3'-P-O5'	17.09	129.64	104.00
1	I	149	A	O3'-P-O5'	17.09	129.63	104.00
2	J	118	A	OP2-P-O3'	-17.08	56.76	108.00
4	L	785	U	O3'-P-O5'	17.05	129.58	104.00
6	N	523	U	O3'-P-O5'	17.05	129.57	104.00
1	I	91	A	P-O3'-C3'	-17.03	94.66	120.20
4	L	505	U	P-O3'-C3'	-17.03	94.66	120.20
6	N	442	U	O3'-P-O5'	17.02	129.53	104.00
1	I	17	A	P-O3'-C3'	-17.01	94.68	120.20
2	J	268	A	O3'-P-O5'	17.01	129.51	104.00
1	I	268	A	P-O3'-C3'	-16.98	94.73	120.20
4	L	765	U	OP2-P-O3'	16.98	158.93	108.00
4	L	806	U	P-O3'-C3'	-16.98	94.74	120.20
1	I	351	A	O3'-P-O5'	16.97	129.45	104.00
5	M	484	U	P-O3'-C3'	-16.97	94.75	120.20
3	K	73	A	P-O3'-C3'	-16.96	94.75	120.20
4	L	544	U	O3'-P-O5'	-16.96	78.55	104.00
5	M	539	U	O3'-P-O5'	16.96	129.44	104.00
5	M	515	U	P-O3'-C3'	-16.96	94.77	120.20
4	L	590	U	P-O3'-C3'	-16.95	94.78	120.20
4	L	758	U	OP2-P-O3'	16.95	158.84	108.00
1	I	40	A	OP2-P-O3'	-16.94	57.17	108.00
4	L	769	U	P-O3'-C3'	-16.94	94.79	120.20
1	I	276	A	O3'-P-O5'	-16.93	78.60	104.00
4	L	818	U	O3'-P-O5'	16.93	129.40	104.00
3	K	83	A	O3'-P-O5'	16.93	129.39	104.00
1	I	19	A	O3'-P-O5'	-16.92	78.62	104.00
2	J	29	A	OP2-P-O3'	16.92	158.76	108.00
2	J	205	A	O3'-P-O5'	-16.92	78.62	104.00
4	L	760	U	P-O3'-C3'	-16.91	94.84	120.20
1	I	133	A	P-O3'-C3'	-16.91	94.84	120.20
2	J	93	A	P-O3'-C3'	-16.90	94.85	120.20
1	I	70	A	P-O3'-C3'	-16.90	94.86	120.20
4	L	472	U	O3'-P-O5'	16.89	129.33	104.00
2	J	172	A	O3'-P-O5'	-16.89	78.67	104.00
1	I	257	A	P-O3'-C3'	-16.88	94.88	120.20
1	I	75	A	P-O3'-C3'	-16.87	94.90	120.20
2	J	63	A	P-O3'-C3'	-16.87	94.90	120.20
5	M	520	U	P-O3'-C3'	-16.86	94.91	120.20
1	I	180	A	P-O3'-C3'	-16.85	94.93	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	88	A	P-O3'-C3'	-16.85	94.93	120.20
4	L	633	U	O3'-P-O5'	16.84	129.26	104.00
4	L	522	U	P-O3'-C3'	-16.82	94.96	120.20
5	M	365	U	P-O3'-C3'	-16.82	94.97	120.20
1	I	87	A	P-O3'-C3'	-16.82	94.97	120.20
3	K	168	A	OP2-P-O3'	16.82	158.45	108.00
2	J	116	A	O3'-P-O5'	16.82	129.22	104.00
5	M	479	U	O3'-P-O5'	16.79	129.19	104.00
1	I	116	A	O3'-P-O5'	16.78	129.17	104.00
3	K	6	A	P-O3'-C3'	-16.76	95.06	120.20
2	J	80	A	O3'-P-O5'	-16.75	78.87	104.00
2	J	14	A	P-O3'-C3'	-16.75	95.08	120.20
1	I	106	A	OP2-P-O3'	-16.74	57.77	108.00
3	K	141	A	OP2-P-O3'	-16.72	57.83	108.00
2	J	93	A	O3'-P-O5'	-16.70	78.96	104.00
3	K	237	A	O3'-P-O5'	-16.69	78.97	104.00
5	M	336	U	OP2-P-O3'	16.68	158.05	108.00
5	M	295	U	O3'-P-O5'	-16.67	78.99	104.00
4	L	796	U	O3'-P-O5'	16.65	128.97	104.00
1	I	292	A	P-O3'-C3'	-16.64	95.24	120.20
2	J	132	A	O3'-P-O5'	-16.63	79.06	104.00
2	J	151	A	P-O3'-C3'	-16.62	95.27	120.20
4	L	481	U	O3'-P-O5'	16.61	128.92	104.00
4	L	680	U	P-O3'-C3'	16.58	145.07	120.20
4	L	774	U	OP2-P-O3'	-16.57	58.28	108.00
1	I	205	A	OP2-P-O3'	-16.56	58.32	108.00
3	K	108	A	O3'-P-O5'	-16.55	79.17	104.00
2	J	257	A	O3'-P-O5'	-16.55	79.18	104.00
1	I	64	A	P-O3'-C3'	-16.54	95.39	120.20
2	J	131	A	O3'-P-O5'	-16.54	79.20	104.00
3	K	111	A	O3'-P-O5'	16.54	128.80	104.00
1	I	169	A	O3'-P-O5'	16.53	128.80	104.00
4	L	518	U	P-O3'-C3'	-16.53	95.41	120.20
1	I	132	A	O3'-P-O5'	-16.52	79.22	104.00
5	M	530	U	OP2-P-O3'	16.52	157.55	108.00
5	M	489	U	OP2-P-O3'	16.51	157.54	108.00
5	M	540	U	O3'-P-O5'	16.51	128.77	104.00
3	K	226	A	P-O3'-C3'	16.51	144.96	120.20
5	M	467	U	P-O3'-C3'	-16.50	95.45	120.20
3	K	49	A	O3'-P-O5'	16.48	128.73	104.00
1	I	204	A	O3'-P-O5'	16.46	128.69	104.00
2	J	86	A	OP2-P-O3'	-16.44	58.67	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	143	A	O3'-P-O5'	16.44	128.66	104.00
4	L	757	U	P-O3'-C3'	-16.43	95.55	120.20
6	N	426	U	P-O3'-C3'	-16.43	95.55	120.20
5	M	526	U	P-O3'-C3'	-16.43	95.56	120.20
4	L	550	U	O3'-P-O5'	16.42	128.63	104.00
4	L	634	U	P-O3'-C3'	-16.42	95.58	120.20
1	I	285	A	P-O3'-C3'	-16.41	95.58	120.20
5	M	512	U	P-O3'-C3'	-16.41	95.59	120.20
1	I	296	A	O3'-P-O5'	-16.39	79.41	104.00
4	L	729	U	OP2-P-O3'	-16.39	58.83	108.00
5	M	329	U	P-O3'-C3'	-16.39	95.62	120.20
5	M	502	U	OP2-P-O3'	-16.39	58.84	108.00
3	K	252	A	P-O3'-C3'	-16.36	95.66	120.20
4	L	544	U	P-O3'-C3'	-16.36	95.66	120.20
4	L	604	U	P-O3'-C3'	-16.36	95.67	120.20
1	I	394	A	O3'-P-O5'	-16.35	79.47	104.00
4	L	783	U	O3'-P-O5'	16.35	128.52	104.00
3	K	124	A	O3'-P-O5'	16.34	128.51	104.00
1	I	363	A	O3'-P-O5'	-16.33	79.51	104.00
4	L	434	U	O3'-P-O5'	-16.33	79.51	104.00
2	J	45	A	P-O3'-C3'	-16.30	95.75	120.20
2	J	144	A	P-O3'-C3'	-16.29	95.76	120.20
6	N	390	U	O3'-P-O5'	16.29	128.43	104.00
5	M	323	U	OP2-P-O3'	16.28	156.85	108.00
6	N	304	U	O3'-P-O5'	-16.28	79.57	104.00
1	I	141	A	O3'-P-O5'	-16.28	79.58	104.00
1	I	19	A	P-O3'-C3'	-16.25	95.82	120.20
3	K	94	A	O3'-P-O5'	-16.25	79.62	104.00
3	K	201	A	O3'-P-O5'	-16.23	79.65	104.00
1	I	133	A	OP2-P-O3'	16.23	156.69	108.00
3	K	217	A	O3'-P-O5'	-16.23	79.66	104.00
2	J	254	A	P-O3'-C3'	-16.22	95.87	120.20
3	K	142	A	OP2-P-O3'	-16.22	59.34	108.00
4	L	689	U	P-O3'-C3'	-16.22	95.88	120.20
1	I	271	A	OP2-P-O3'	-16.21	59.38	108.00
6	N	389	U	OP2-P-O3'	-16.20	59.40	108.00
3	K	247	A	OP2-P-O3'	-16.20	59.41	108.00
4	L	557	U	P-O3'-C3'	-16.19	95.91	120.20
4	L	437	U	O3'-P-O5'	16.19	128.28	104.00
3	K	163	A	P-O3'-C3'	-16.18	95.92	120.20
4	L	736	U	O3'-P-O5'	16.18	128.27	104.00
1	I	228	A	P-O3'-C3'	-16.18	95.94	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	324	U	O3'-P-O5'	-16.18	79.73	104.00
1	I	320	A	P-O3'-C3'	-16.17	95.94	120.20
2	J	184	A	P-O3'-C3'	-16.16	95.95	120.20
4	L	583	U	O3'-P-O5'	-16.16	79.76	104.00
5	M	318	U	P-O3'-C3'	-16.16	95.96	120.20
1	I	358	A	OP2-P-O3'	-16.15	59.54	108.00
6	N	425	U	P-O3'-C3'	-16.15	95.97	120.20
5	M	482	U	O3'-P-O5'	16.15	128.22	104.00
4	L	724	U	OP2-P-O3'	16.14	156.42	108.00
6	N	331	U	O3'-P-O5'	-16.13	79.81	104.00
4	L	666	U	P-O3'-C3'	-16.12	96.01	120.20
5	M	349	U	O3'-P-O5'	-16.12	79.82	104.00
4	L	777	U	P-O3'-C3'	-16.11	96.03	120.20
1	I	73	A	P-O3'-C3'	-16.10	96.05	120.20
2	J	61	A	OP2-P-O3'	-16.10	59.70	108.00
4	L	733	U	O3'-P-O5'	16.09	128.13	104.00
5	M	405	U	O3'-P-O5'	-16.07	79.89	104.00
6	N	281	U	P-O3'-C3'	-16.07	96.10	120.20
4	L	624	U	O3'-P-O5'	16.07	128.10	104.00
1	I	102	A	O3'-P-O5'	-16.06	79.91	104.00
4	L	562	U	O3'-P-O5'	16.06	128.09	104.00
4	L	810	U	P-O3'-C3'	-16.05	96.13	120.20
2	J	87	A	O3'-P-O5'	16.05	128.07	104.00
5	M	406	U	OP2-P-O3'	16.04	156.12	108.00
6	N	386	U	O3'-P-O5'	-16.03	79.95	104.00
4	L	557	U	O3'-P-O5'	-16.02	79.97	104.00
5	M	460	U	O3'-P-O5'	-16.02	79.97	104.00
6	N	319	U	O3'-P-O5'	-16.02	79.98	104.00
4	L	540	U	O3'-P-O5'	16.00	128.00	104.00
1	I	230	A	P-O3'-C3'	-16.00	96.20	120.20
2	J	152	A	P-O3'-C3'	-16.00	96.21	120.20
3	K	157	A	P-O3'-C3'	-15.98	96.22	120.20
6	N	524	U	OP2-P-O3'	-15.98	60.07	108.00
5	M	507	U	P-O3'-C3'	-15.97	96.24	120.20
1	I	161	A	P-O3'-C3'	-15.97	96.25	120.20
2	J	147	A	O3'-P-O5'	15.96	127.94	104.00
5	M	351	U	O3'-P-O5'	15.96	127.94	104.00
1	I	48	A	P-O3'-C3'	-15.96	96.27	120.20
1	I	80	A	P-O3'-C3'	-15.94	96.29	120.20
4	L	766	U	P-O3'-C3'	-15.94	96.29	120.20
4	L	644	U	P-O3'-C3'	-15.93	96.31	120.20
3	K	198	A	O3'-P-O5'	-15.92	80.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	269	A	OP2-P-O3'	15.91	155.73	108.00
4	L	509	U	O3'-P-O5'	-15.90	80.16	104.00
4	L	583	U	P-O3'-C3'	-15.89	96.37	120.20
1	I	244	A	O3'-P-O5'	15.88	127.82	104.00
1	I	255	A	P-O3'-C3'	-15.88	96.39	120.20
5	M	466	U	O3'-P-O5'	-15.87	80.19	104.00
3	K	86	A	P-O3'-C3'	-15.86	96.42	120.20
1	I	351	A	OP2-P-O3'	-15.85	60.45	108.00
2	J	15	A	P-O3'-C3'	-15.84	96.44	120.20
5	M	337	U	OP2-P-O3'	15.83	155.49	108.00
6	N	380	U	P-O3'-C3'	-15.82	96.47	120.20
3	K	52	A	O3'-P-O5'	15.82	127.73	104.00
4	L	602	U	P-O3'-C3'	-15.81	96.49	120.20
4	L	730	U	O3'-P-O5'	15.80	127.71	104.00
3	K	161	A	P-O3'-C3'	-15.80	96.50	120.20
6	N	464	U	O3'-P-O5'	15.79	127.69	104.00
1	I	117	A	P-O3'-C3'	-15.79	96.51	120.20
2	J	202	A	P-O3'-C3'	-15.79	96.51	120.20
5	M	284	U	O3'-P-O5'	15.78	127.67	104.00
1	I	120	A	P-O3'-C3'	-15.78	96.53	120.20
5	M	314	U	O3'-P-O5'	15.78	127.67	104.00
3	K	26	A	O3'-P-O5'	15.78	127.67	104.00
1	I	74	A	P-O3'-C3'	-15.77	96.55	120.20
6	N	473	U	P-O3'-C3'	-15.76	96.56	120.20
1	I	375	A	OP2-P-O3'	-15.75	60.75	108.00
5	M	463	U	P-O3'-C3'	-15.74	96.59	120.20
1	I	184	A	P-O3'-C3'	-15.73	96.61	120.20
2	J	263	A	P-O3'-C3'	-15.73	96.61	120.20
4	L	510	U	O3'-P-O5'	-15.72	80.42	104.00
5	M	324	U	P-O3'-C3'	-15.70	96.65	120.20
6	N	448	U	P-O3'-C3'	-15.70	96.65	120.20
4	L	461	U	O3'-P-O5'	-15.69	80.47	104.00
6	N	489	U	OP2-P-O3'	-15.68	60.97	108.00
5	M	425	U	O3'-P-O5'	15.67	127.50	104.00
5	M	307	U	O3'-P-O5'	15.66	127.48	104.00
1	I	261	A	P-O3'-C3'	-15.65	96.72	120.20
4	L	777	U	O3'-P-O5'	-15.65	80.53	104.00
4	L	488	U	O3'-P-O5'	-15.64	80.54	104.00
1	I	144	A	O3'-P-O5'	-15.64	80.54	104.00
4	L	661	U	O3'-P-O5'	15.63	127.45	104.00
4	L	754	U	P-O3'-C3'	-15.63	96.75	120.20
4	L	480	U	P-O3'-C3'	-15.63	96.76	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	86	A	O3'-P-O5'	15.62	127.44	104.00
4	L	526	U	O3'-P-O5'	-15.62	80.57	104.00
1	I	65	A	OP2-P-O3'	15.61	154.83	108.00
1	I	95	A	O3'-P-O5'	15.61	127.41	104.00
6	N	449	U	O3'-P-O5'	-15.61	80.59	104.00
3	K	25	A	O3'-P-O5'	15.60	127.40	104.00
4	L	477	U	P-O3'-C3'	-15.59	96.81	120.20
2	J	69	A	OP2-P-O3'	15.58	154.75	108.00
6	N	379	U	O3'-P-O5'	-15.58	80.64	104.00
6	N	524	U	O3'-P-O5'	15.56	127.34	104.00
1	I	236	A	P-O3'-C3'	-15.56	96.87	120.20
1	I	192	A	P-O3'-C3'	-15.55	96.87	120.20
1	I	78	A	OP2-P-O3'	-15.54	61.39	108.00
2	J	69	A	O3'-P-O5'	-15.53	80.70	104.00
1	I	15	A	OP2-P-O3'	15.52	154.55	108.00
4	L	498	U	O3'-P-O5'	-15.51	80.74	104.00
1	I	226	A	O3'-P-O5'	15.50	127.25	104.00
2	J	5	A	OP2-P-O3'	-15.49	61.52	108.00
4	L	709	U	O3'-P-O5'	15.49	127.23	104.00
5	M	525	U	P-O3'-C3'	-15.49	96.97	120.20
6	N	399	U	P-O3'-C3'	-15.49	96.97	120.20
1	I	293	A	P-O3'-C3'	-15.48	96.98	120.20
3	K	162	A	O3'-P-O5'	15.47	127.20	104.00
2	J	166	A	OP2-P-O3'	-15.46	61.61	108.00
4	L	520	U	P-O3'-C3'	-15.46	97.00	120.20
1	I	41	A	O3'-P-O5'	15.46	127.19	104.00
5	M	420	U	O3'-P-O5'	-15.44	80.83	104.00
1	I	235	A	O3'-P-O5'	15.43	127.15	104.00
6	N	446	U	OP2-P-O3'	-15.43	61.70	108.00
6	N	454	U	O3'-P-O5'	-15.43	80.85	104.00
1	I	303	A	P-O3'-C3'	-15.41	97.09	120.20
2	J	129	A	O3'-P-O5'	-15.41	80.89	104.00
2	J	162	A	O3'-P-O5'	15.41	127.11	104.00
6	N	400	U	P-O3'-C3'	-15.41	97.09	120.20
4	L	746	U	OP2-P-O3'	-15.40	61.81	108.00
1	I	66	A	OP2-P-O3'	15.38	154.13	108.00
6	N	349	U	OP2-P-O3'	-15.37	61.88	108.00
4	L	598	U	P-O3'-C3'	-15.37	97.15	120.20
3	K	253	A	OP2-P-O3'	15.35	154.06	108.00
1	I	273	A	P-O3'-C3'	-15.35	97.18	120.20
3	K	141	A	O3'-P-O5'	15.34	127.00	104.00
5	M	539	U	P-O3'-C3'	-15.34	97.20	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	561	U	P-O3'-C3'	-15.32	97.22	120.20
1	I	274	A	O3'-P-O5'	15.31	126.97	104.00
4	L	567	U	P-O3'-C3'	-15.31	97.23	120.20
5	M	461	U	P-O3'-C3'	-15.31	97.23	120.20
1	I	12	A	P-O3'-C3'	-15.30	97.25	120.20
6	N	314	U	O3'-P-O5'	-15.29	81.06	104.00
1	I	327	A	O3'-P-O5'	15.29	126.94	104.00
1	I	45	A	O3'-P-O5'	15.28	126.92	104.00
1	I	191	A	P-O3'-C3'	-15.28	97.29	120.20
1	I	304	A	P-O3'-C3'	-15.27	97.30	120.20
5	M	326	U	O3'-P-O5'	15.26	126.89	104.00
1	I	182	A	P-O3'-C3'	-15.25	97.32	120.20
4	L	459	U	P-O3'-C3'	-15.24	97.34	120.20
5	M	328	U	OP2-P-O3'	-15.23	62.30	108.00
4	L	588	U	P-O3'-C3'	-15.22	97.38	120.20
5	M	371	U	P-O3'-C3'	-15.21	97.38	120.20
3	K	246	A	OP2-P-O3'	-15.21	62.38	108.00
4	L	644	U	O3'-P-O5'	15.19	126.79	104.00
2	J	235	A	O3'-P-O5'	15.19	126.79	104.00
3	K	158	A	P-O3'-C3'	-15.19	97.41	120.20
4	L	519	U	P-O3'-C3'	-15.18	97.42	120.20
1	I	137	A	O3'-P-O5'	-15.16	81.26	104.00
5	M	514	U	P-O3'-C3'	-15.15	97.47	120.20
2	J	46	A	P-O3'-C3'	-15.14	97.49	120.20
2	J	90	A	P-O3'-C3'	-15.13	97.50	120.20
5	M	414	U	O3'-P-O5'	15.13	126.70	104.00
3	K	79	A	O3'-P-O5'	-15.12	81.32	104.00
5	M	492	U	P-O3'-C3'	-15.12	97.52	120.20
1	I	225	A	O3'-P-O5'	-15.11	81.33	104.00
1	I	334	A	O3'-P-O5'	-15.11	81.34	104.00
5	M	327	U	OP2-P-O3'	-15.11	62.69	108.00
4	L	559	U	P-O3'-C3'	-15.10	97.55	120.20
6	N	426	U	OP2-P-O3'	15.10	153.29	108.00
1	I	131	A	P-O3'-C3'	-15.09	97.57	120.20
2	J	194	A	P-O3'-C3'	-15.09	97.57	120.20
3	K	97	A	OP2-P-O3'	15.09	153.26	108.00
2	J	209	A	P-O3'-C3'	-15.05	97.62	120.20
6	N	416	U	OP2-P-O3'	15.05	153.15	108.00
4	L	765	U	O3'-P-O5'	-15.04	81.44	104.00
4	L	647	U	O3'-P-O5'	-15.04	81.44	104.00
5	M	458	U	OP2-P-O3'	15.04	153.13	108.00
1	I	340	A	OP2-P-O3'	-15.03	62.90	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	44	A	P-O3'-C3'	-15.03	97.66	120.20
4	L	565	U	P-O3'-C3'	-15.01	97.69	120.20
5	M	305	U	O3'-P-O5'	15.00	126.50	104.00
4	L	605	U	P-O3'-C3'	-14.98	97.73	120.20
2	J	57	A	P-O3'-C3'	-14.97	97.74	120.20
5	M	505	U	P-O3'-C3'	-14.97	97.74	120.20
6	N	392	U	OP2-P-O3'	-14.97	63.08	108.00
6	N	440	U	OP2-P-O3'	14.97	152.91	108.00
2	J	80	A	P-O3'-C3'	-14.96	97.76	120.20
4	L	538	U	O3'-P-O5'	-14.95	81.57	104.00
4	L	556	U	P-O3'-C3'	-14.94	97.79	120.20
3	K	225	A	O3'-P-O5'	-14.93	81.60	104.00
4	L	580	U	O3'-P-O5'	14.92	126.38	104.00
4	L	589	U	P-O3'-C3'	-14.92	97.82	120.20
2	J	237	A	OP2-P-O3'	-14.92	63.25	108.00
4	L	744	U	P-O3'-C3'	-14.90	97.84	120.20
5	M	410	U	P-O3'-C3'	-14.90	97.84	120.20
5	M	475	U	O3'-P-O5'	14.90	126.35	104.00
6	N	381	U	O3'-P-O5'	14.90	126.35	104.00
6	N	497	U	OP2-P-O3'	14.90	152.70	108.00
4	L	730	U	OP2-P-O3'	-14.88	63.35	108.00
5	M	548	U	OP2-P-O3'	-14.88	63.36	108.00
3	K	133	A	P-O3'-C3'	-14.86	97.91	120.20
3	K	166	A	O3'-P-O5'	14.86	126.29	104.00
3	K	92	A	P-O3'-C3'	-14.86	97.91	120.20
1	I	230	A	O3'-P-O5'	-14.85	81.72	104.00
5	M	288	U	P-O3'-C3'	-14.85	97.92	120.20
6	N	301	U	O3'-P-O5'	-14.85	81.72	104.00
4	L	475	U	P-O3'-C3'	-14.84	97.95	120.20
5	M	340	U	P-O3'-C3'	-14.84	97.95	120.20
5	M	300	U	P-O3'-C3'	-14.83	97.95	120.20
6	N	389	U	O3'-P-O5'	14.83	126.24	104.00
1	I	297	A	P-O3'-C3'	-14.82	97.96	120.20
6	N	428	U	P-O3'-C3'	-14.82	97.97	120.20
3	K	99	A	OP2-P-O3'	14.80	152.40	108.00
4	L	781	U	O3'-P-O5'	14.80	126.19	104.00
1	I	85	A	O3'-P-O5'	14.79	126.18	104.00
1	I	402	A	O3'-P-O5'	-14.79	81.82	104.00
4	L	814	U	P-O3'-C3'	-14.79	98.02	120.20
5	M	320	U	O3'-P-O5'	-14.79	81.82	104.00
2	J	52	A	P-O3'-C3'	-14.78	98.03	120.20
6	N	359	U	O3'-P-O5'	14.78	126.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	167	A	OP2-P-O3'	14.77	152.31	108.00
5	M	369	U	P-O3'-C3'	-14.77	98.05	120.20
6	N	295	U	OP2-P-O3'	-14.76	63.72	108.00
4	L	491	U	O3'-P-O5'	14.75	126.13	104.00
6	N	339	U	O3'-P-O5'	-14.74	81.89	104.00
4	L	713	U	OP2-P-O3'	14.74	152.22	108.00
1	I	291	A	P-O3'-C3'	-14.74	98.10	120.20
6	N	487	U	O3'-P-O5'	-14.72	81.91	104.00
5	M	506	U	P-O3'-C3'	-14.72	98.13	120.20
2	J	165	A	O3'-P-O5'	14.71	126.06	104.00
1	I	191	A	O3'-P-O5'	-14.69	81.97	104.00
3	K	96	A	P-O3'-C3'	-14.69	98.17	120.20
5	M	361	U	OP2-P-O3'	-14.69	63.95	108.00
2	J	149	A	O3'-P-O5'	14.68	126.01	104.00
1	I	296	A	P-O3'-C3'	-14.66	98.20	120.20
4	L	770	U	P-O3'-C3'	-14.66	98.21	120.20
1	I	151	A	O3'-P-O5'	14.64	125.96	104.00
1	I	39	A	O3'-P-O5'	14.64	125.96	104.00
1	I	209	A	O3'-P-O5'	14.64	125.96	104.00
5	M	390	U	O3'-P-O5'	14.63	125.95	104.00
6	N	439	U	O3'-P-O5'	-14.63	82.06	104.00
2	J	68	A	O3'-P-O5'	-14.62	82.07	104.00
2	J	6	A	OP2-P-O3'	-14.60	64.20	108.00
5	M	466	U	OP2-P-O3'	14.59	151.78	108.00
4	L	503	U	O3'-P-O5'	14.57	125.85	104.00
2	J	235	A	P-O3'-C3'	-14.56	98.35	120.20
5	M	455	U	P-O3'-C3'	-14.56	98.36	120.20
4	L	650	U	P-O3'-C3'	-14.54	98.39	120.20
4	L	816	U	P-O3'-C3'	-14.52	98.42	120.20
5	M	454	U	OP2-P-O3'	14.52	151.57	108.00
6	N	444	U	P-O3'-C3'	-14.52	98.42	120.20
2	J	88	A	O3'-P-O5'	14.52	125.78	104.00
1	I	68	A	OP2-P-O3'	14.52	151.55	108.00
1	I	118	A	O3'-P-O5'	14.51	125.77	104.00
4	L	637	U	P-O3'-C3'	-14.51	98.43	120.20
5	M	290	U	O3'-P-O5'	-14.50	82.25	104.00
2	J	147	A	OP2-P-O3'	-14.48	64.56	108.00
5	M	408	U	P-O3'-C3'	-14.48	98.48	120.20
1	I	48	A	O3'-P-O5'	-14.48	82.28	104.00
2	J	90	A	O3'-P-O5'	-14.47	82.29	104.00
2	J	88	A	P-O3'-C3'	-14.47	98.50	120.20
5	M	377	U	P-O3'-C3'	-14.47	98.50	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	344	U	O3'-P-O5'	14.47	125.70	104.00
4	L	728	U	O3'-P-O5'	14.46	125.69	104.00
6	N	417	U	P-O3'-C3'	-14.46	98.51	120.20
3	K	155	A	OP2-P-O3'	14.45	151.35	108.00
3	K	174	A	P-O3'-C3'	-14.45	98.52	120.20
4	L	483	U	P-O3'-C3'	-14.45	98.52	120.20
4	L	700	U	P-O3'-C3'	-14.45	98.53	120.20
2	J	83	A	O3'-P-O5'	14.45	125.67	104.00
4	L	564	U	P-O3'-C3'	-14.45	98.53	120.20
2	J	269	A	O3'-P-O5'	14.44	125.66	104.00
1	I	88	A	O3'-P-O5'	14.44	125.66	104.00
4	L	633	U	OP2-P-O3'	-14.44	64.69	108.00
3	K	249	A	O3'-P-O5'	14.43	125.65	104.00
1	I	28	A	O3'-P-O5'	14.43	125.64	104.00
5	M	378	U	O3'-P-O5'	14.42	125.64	104.00
6	N	427	U	P-O3'-C3'	-14.42	98.57	120.20
1	I	8	A	P-O3'-C3'	-14.42	98.57	120.20
1	I	373	A	P-O3'-C3'	-14.41	98.58	120.20
4	L	611	U	P-O3'-C3'	-14.41	98.58	120.20
5	M	367	U	P-O3'-C3'	-14.41	98.58	120.20
2	J	49	A	O3'-P-O5'	14.41	125.61	104.00
2	J	154	A	O3'-P-O5'	14.41	125.61	104.00
5	M	315	U	O3'-P-O5'	14.39	125.58	104.00
2	J	67	A	P-O3'-C3'	-14.38	98.63	120.20
4	L	418	U	O3'-P-O5'	14.37	125.56	104.00
1	I	330	A	P-O3'-C3'	-14.36	98.65	120.20
2	J	184	A	O3'-P-O5'	14.36	125.54	104.00
6	N	474	U	P-O3'-C3'	-14.36	98.67	120.20
2	J	32	A	P-O3'-C3'	-14.35	98.67	120.20
1	I	30	A	O3'-P-O5'	14.35	125.53	104.00
5	M	387	U	O3'-P-O5'	14.34	125.51	104.00
1	I	297	A	O3'-P-O5'	-14.32	82.51	104.00
3	K	120	A	OP2-P-O3'	14.32	150.96	108.00
4	L	560	U	O3'-P-O5'	14.32	125.48	104.00
3	K	68	A	O3'-P-O5'	14.32	125.47	104.00
3	K	51	A	O3'-P-O5'	14.31	125.47	104.00
4	L	627	U	O3'-P-O5'	14.30	125.46	104.00
4	L	608	U	O3'-P-O5'	14.30	125.45	104.00
3	K	66	A	P-O3'-C3'	-14.30	98.75	120.20
3	K	166	A	P-O3'-C3'	-14.29	98.76	120.20
4	L	676	U	P-O3'-C3'	-14.29	98.76	120.20
4	L	425	U	O3'-P-O5'	-14.28	82.59	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	517	U	OP2-P-O3'	14.26	150.78	108.00
3	K	122	A	O3'-P-O5'	14.26	125.38	104.00
4	L	743	U	O3'-P-O5'	14.26	125.39	104.00
6	N	468	U	OP2-P-O3'	-14.26	65.23	108.00
1	I	113	A	P-O3'-C3'	-14.25	98.83	120.20
5	M	337	U	OP1-P-O3'	-14.24	65.27	108.00
6	N	330	U	O3'-P-O5'	-14.24	82.64	104.00
1	I	249	A	P-O3'-C3'	-14.23	98.85	120.20
4	L	715	U	OP2-P-O3'	-14.23	65.31	108.00
2	J	73	A	OP2-P-O3'	-14.23	65.32	108.00
4	L	419	U	OP2-P-O3'	-14.22	65.33	108.00
4	L	656	U	P-O3'-C3'	-14.22	98.86	120.20
1	I	82	A	OP2-P-O3'	14.21	150.64	108.00
2	J	210	A	OP2-P-O3'	14.21	150.63	108.00
4	L	783	U	OP2-P-O3'	-14.21	65.39	108.00
4	L	786	U	OP2-P-O3'	-14.20	65.40	108.00
5	M	381	U	O3'-P-O5'	-14.20	82.70	104.00
5	M	386	U	O3'-P-O5'	14.20	125.30	104.00
2	J	176	A	O3'-P-O5'	14.20	125.30	104.00
2	J	183	A	OP1-P-O3'	-14.20	65.40	108.00
3	K	173	A	P-O3'-C3'	-14.20	98.90	120.20
2	J	187	A	P-O3'-C3'	-14.19	98.91	120.20
1	I	218	A	O3'-P-O5'	14.18	125.27	104.00
5	M	435	U	OP2-P-O3'	-14.17	65.50	108.00
1	I	14	A	OP2-P-O3'	14.17	150.50	108.00
3	K	225	A	P-O3'-C3'	14.15	141.43	120.20
1	I	237	A	O3'-P-O5'	-14.15	82.78	104.00
4	L	498	U	OP2-P-O3'	14.14	150.43	108.00
1	I	127	A	O3'-P-O5'	-14.13	82.80	104.00
4	L	610	U	O3'-P-O5'	-14.13	82.80	104.00
4	L	712	U	OP2-P-O3'	14.13	150.39	108.00
4	L	823	U	OP2-P-O3'	-14.13	65.61	108.00
1	I	73	A	OP2-P-O3'	14.13	150.38	108.00
5	M	465	U	OP2-P-O3'	14.12	150.37	108.00
5	M	545	U	O3'-P-O5'	14.12	125.19	104.00
4	L	729	U	O3'-P-O5'	14.12	125.18	104.00
6	N	343	U	O3'-P-O5'	14.12	125.18	104.00
2	J	71	A	O3'-P-O5'	-14.12	82.82	104.00
4	L	549	U	OP2-P-O3'	14.12	150.36	108.00
4	L	651	U	P-O3'-C3'	-14.11	99.03	120.20
2	J	59	A	P-O3'-C3'	-14.11	99.04	120.20
3	K	156	A	OP2-P-O3'	14.10	150.28	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	194	A	P-O3'-C3'	-14.08	99.08	120.20
6	N	323	U	O3'-P-O5'	-14.06	82.91	104.00
5	M	403	U	O3'-P-O5'	14.06	125.08	104.00
6	N	450	U	OP2-P-O3'	14.06	150.17	108.00
5	M	347	U	OP2-P-O3'	14.05	150.16	108.00
3	K	169	A	O3'-P-O5'	-14.05	82.93	104.00
2	J	127	A	P-O3'-C3'	-14.04	99.13	120.20
5	M	310	U	P-O3'-C3'	-14.04	99.14	120.20
5	M	469	U	O3'-P-O5'	14.04	125.06	104.00
3	K	6	A	O3'-P-O5'	-14.03	82.96	104.00
5	M	457	U	O3'-P-O5'	-14.03	82.96	104.00
2	J	168	A	OP2-P-O3'	-14.03	65.92	108.00
3	K	139	A	O3'-P-O5'	14.03	125.04	104.00
4	L	822	U	O3'-P-O5'	14.02	125.03	104.00
2	J	213	A	O3'-P-O5'	14.01	125.02	104.00
1	I	56	A	O3'-P-O5'	14.01	125.02	104.00
2	J	23	A	O3'-P-O5'	14.01	125.01	104.00
3	K	169	A	P-O3'-C3'	-14.00	99.21	120.20
1	I	236	A	O3'-P-O5'	13.99	124.98	104.00
3	K	47	A	P-O3'-C3'	-13.99	99.22	120.20
2	J	223	A	OP1-P-O3'	-13.98	66.05	108.00
1	I	344	A	P-O3'-C3'	-13.96	99.26	120.20
4	L	521	U	O3'-P-O5'	13.96	124.93	104.00
4	L	823	U	O3'-P-O5'	13.96	124.93	104.00
5	M	363	U	O3'-P-O5'	13.96	124.93	104.00
1	I	109	A	OP2-P-O3'	-13.95	66.15	108.00
6	N	352	U	O3'-P-O5'	-13.94	83.08	104.00
2	J	183	A	OP2-P-O3'	13.94	149.82	108.00
1	I	338	A	P-O3'-C3'	-13.94	99.30	120.20
2	J	40	A	O3'-P-O5'	-13.94	83.10	104.00
5	M	376	U	O3'-P-O5'	-13.93	83.10	104.00
2	J	137	A	O3'-P-O5'	13.92	124.89	104.00
6	N	388	U	OP2-P-O3'	-13.92	66.24	108.00
5	M	508	U	P-O3'-C3'	-13.92	99.32	120.20
3	K	65	A	O3'-P-O5'	-13.91	83.14	104.00
2	J	196	A	O3'-P-O5'	13.90	124.85	104.00
2	J	267	A	O3'-P-O5'	13.90	124.85	104.00
6	N	412	U	P-O3'-C3'	-13.90	99.35	120.20
4	L	629	U	P-O3'-C3'	-13.90	99.36	120.20
1	I	36	A	P-O3'-C3'	-13.89	99.36	120.20
5	M	531	U	OP2-P-O3'	13.89	149.69	108.00
6	N	460	U	O3'-P-O5'	13.89	124.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	211	A	P-O3'-C3'	-13.89	99.36	120.20
4	L	482	U	P-O3'-C3'	-13.89	99.37	120.20
5	M	407	U	P-O3'-C3'	-13.89	99.37	120.20
1	I	302	A	P-O3'-C3'	-13.88	99.39	120.20
1	I	55	A	O3'-P-O5'	13.87	124.81	104.00
6	N	431	U	OP2-P-O3'	13.87	149.62	108.00
1	I	206	A	OP2-P-O3'	-13.87	66.40	108.00
1	I	368	A	O3'-P-O5'	13.86	124.80	104.00
3	K	90	A	P-O3'-C3'	-13.85	99.42	120.20
6	N	375	U	O3'-P-O5'	-13.85	83.23	104.00
5	M	327	U	P-O3'-C3'	-13.84	99.44	120.20
3	K	228	A	O3'-P-O5'	-13.84	83.25	104.00
1	I	132	A	OP2-P-O3'	13.83	149.49	108.00
1	I	387	A	O3'-P-O5'	-13.83	83.26	104.00
5	M	296	U	O3'-P-O5'	-13.82	83.27	104.00
4	L	495	U	O3'-P-O5'	-13.82	83.28	104.00
3	K	191	A	O3'-P-O5'	-13.81	83.28	104.00
5	M	473	U	O3'-P-O5'	13.80	124.71	104.00
4	L	759	U	OP2-P-O3'	13.79	149.38	108.00
5	M	545	U	OP2-P-O3'	-13.77	66.68	108.00
3	K	181	A	O3'-P-O5'	13.77	124.65	104.00
4	L	522	U	O3'-P-O5'	13.77	124.65	104.00
4	L	710	U	O3'-P-O5'	13.76	124.64	104.00
6	N	394	U	O3'-P-O5'	13.76	124.64	104.00
3	K	254	A	OP2-P-O3'	13.75	149.25	108.00
4	L	625	U	OP2-P-O3'	-13.75	66.75	108.00
4	L	694	U	OP2-P-O3'	13.74	149.23	108.00
1	I	304	A	O3'-P-O5'	13.74	124.61	104.00
2	J	170	A	O3'-P-O5'	13.73	124.59	104.00
6	N	422	U	P-O3'-C3'	-13.72	99.62	120.20
1	I	70	A	OP2-P-O3'	13.71	149.12	108.00
4	L	797	U	O3'-P-O5'	13.70	124.55	104.00
4	L	750	U	O3'-P-O5'	13.69	124.54	104.00
4	L	477	U	OP2-P-O3'	13.69	149.06	108.00
2	J	248	A	P-O3'-C3'	-13.69	99.67	120.20
4	L	615	U	P-O3'-C3'	-13.68	99.68	120.20
6	N	304	U	P-O3'-C3'	13.68	140.72	120.20
4	L	571	U	O3'-P-O5'	-13.68	83.49	104.00
1	I	389	A	P-O3'-C3'	13.67	140.70	120.20
4	L	492	U	O3'-P-O5'	13.67	124.50	104.00
5	M	528	U	P-O3'-C3'	-13.66	99.70	120.20
2	J	53	A	O3'-P-O5'	13.65	124.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	323	U	P-O3'-C3'	-13.65	99.73	120.20
3	K	128	A	O3'-P-O5'	-13.64	83.53	104.00
2	J	72	A	O3'-P-O5'	-13.63	83.55	104.00
4	L	776	U	OP2-P-O3'	13.63	148.90	108.00
5	M	536	U	P-O3'-C3'	-13.63	99.75	120.20
6	N	417	U	OP2-P-O3'	13.62	148.87	108.00
1	I	153	A	O3'-P-O5'	-13.62	83.57	104.00
2	J	33	A	P-O3'-C3'	-13.62	99.77	120.20
6	N	455	U	P-O3'-C3'	-13.62	99.78	120.20
3	K	180	A	OP2-P-O3'	-13.61	67.18	108.00
1	I	2	A	O3'-P-O5'	13.60	124.39	104.00
6	N	376	U	O3'-P-O5'	-13.59	83.61	104.00
5	M	433	U	P-O3'-C3'	-13.57	99.84	120.20
1	I	266	A	OP1-P-O3'	-13.57	67.30	108.00
1	I	74	A	OP2-P-O3'	13.56	148.69	108.00
5	M	464	U	P-O3'-C3'	-13.56	99.86	120.20
1	I	231	A	OP2-P-O3'	13.56	148.67	108.00
5	M	527	U	P-O3'-C3'	-13.54	99.88	120.20
3	K	93	A	P-O3'-C3'	-13.53	99.91	120.20
6	N	525	U	O3'-P-O5'	-13.52	83.72	104.00
1	I	55	A	P-O3'-C3'	-13.52	99.93	120.20
5	M	522	U	P-O3'-C3'	-13.52	99.92	120.20
3	K	35	A	O3'-P-O5'	-13.50	83.75	104.00
1	I	229	A	O3'-P-O5'	-13.49	83.76	104.00
1	I	196	A	O3'-P-O5'	13.49	124.24	104.00
5	M	411	U	P-O3'-C3'	-13.49	99.96	120.20
1	I	65	A	OP1-P-O3'	-13.48	67.54	108.00
2	J	252	A	P-O3'-C3'	-13.48	99.98	120.20
1	I	193	A	O3'-P-O5'	13.48	124.22	104.00
4	L	577	U	O3'-P-O5'	-13.48	83.79	104.00
1	I	92	A	P-O3'-C3'	-13.47	100.00	120.20
3	K	43	A	O3'-P-O5'	-13.47	83.80	104.00
6	N	379	U	OP2-P-O3'	13.47	148.41	108.00
6	N	483	U	P-O3'-C3'	-13.47	100.00	120.20
4	L	762	U	O3'-P-O5'	13.46	124.19	104.00
3	K	119	A	OP1-P-O3'	-13.44	67.67	108.00
5	M	399	U	O3'-P-O5'	13.44	124.16	104.00
2	J	11	A	OP2-P-O3'	13.44	148.31	108.00
4	L	420	U	O3'-P-O5'	-13.43	83.85	104.00
5	M	515	U	O3'-P-O5'	13.43	124.14	104.00
6	N	443	U	O3'-P-O5'	13.43	124.14	104.00
4	L	727	U	OP2-P-O3'	-13.42	67.74	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	311	U	O3'-P-O5'	13.40	124.10	104.00
5	M	286	U	O3'-P-O5'	13.40	124.10	104.00
4	L	638	U	OP2-P-O3'	13.38	148.13	108.00
2	J	202	A	O3'-P-O5'	13.38	124.06	104.00
3	K	72	A	O3'-P-O5'	-13.38	83.94	104.00
4	L	447	U	OP2-P-O3'	-13.37	67.88	108.00
6	N	320	U	O3'-P-O5'	-13.37	83.94	104.00
1	I	132	A	P-O3'-C3'	-13.36	100.16	120.20
5	M	458	U	O3'-P-O5'	-13.36	83.96	104.00
3	K	81	A	O3'-P-O5'	-13.36	83.97	104.00
2	J	101	A	P-O3'-C3'	-13.35	100.18	120.20
2	J	23	A	P-O3'-C3'	-13.35	100.18	120.20
1	I	3	A	O3'-P-O5'	13.33	124.00	104.00
4	L	812	U	OP2-P-O3'	13.33	148.00	108.00
2	J	185	A	P-O3'-C3'	-13.32	100.22	120.20
3	K	211	A	O3'-P-O5'	-13.31	84.03	104.00
3	K	55	A	O3'-P-O5'	13.31	123.97	104.00
5	M	486	U	P-O3'-C3'	-13.30	100.24	120.20
1	I	71	A	OP2-P-O3'	13.30	147.90	108.00
2	J	207	A	O3'-P-O5'	-13.30	84.05	104.00
6	N	501	U	O3'-P-O5'	-13.30	84.05	104.00
1	I	252	A	O3'-P-O5'	13.29	123.94	104.00
1	I	186	A	OP2-P-O3'	-13.29	68.14	108.00
2	J	206	A	OP2-P-O3'	13.29	147.85	108.00
6	N	430	U	OP2-P-O3'	13.29	147.86	108.00
5	M	380	U	O3'-P-O5'	-13.28	84.08	104.00
2	J	105	A	O3'-P-O5'	-13.26	84.11	104.00
1	I	120	A	O3'-P-O5'	13.26	123.89	104.00
2	J	151	A	O3'-P-O5'	-13.25	84.12	104.00
6	N	318	U	O3'-P-O5'	-13.25	84.13	104.00
5	M	476	U	P-O3'-C3'	-13.24	100.34	120.20
2	J	160	A	OP2-P-O3'	13.24	147.71	108.00
1	I	233	A	OP2-P-O3'	13.22	147.66	108.00
4	L	455	U	O3'-P-O5'	13.22	123.83	104.00
2	J	21	A	P-O3'-C3'	-13.22	100.37	120.20
4	L	745	U	OP2-P-O3'	-13.22	68.35	108.00
2	J	197	A	O3'-P-O5'	13.21	123.82	104.00
3	K	113	A	O3'-P-O5'	-13.21	84.18	104.00
5	M	488	U	OP2-P-O3'	13.21	147.63	108.00
1	I	230	A	OP2-P-O3'	13.20	147.60	108.00
5	M	283	U	O3'-P-O5'	13.20	123.80	104.00
4	L	497	U	O3'-P-O5'	-13.19	84.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	226	A	O3'-P-O5'	-13.18	84.23	104.00
6	N	429	U	P-O3'-C3'	-13.17	100.44	120.20
2	J	36	A	P-O3'-C3'	-13.17	100.45	120.20
2	J	214	A	P-O3'-C3'	-13.16	100.46	120.20
4	L	759	U	OP1-P-O3'	-13.16	68.53	108.00
2	J	13	A	P-O3'-C3'	-13.15	100.47	120.20
1	I	287	A	OP2-P-O3'	13.15	147.45	108.00
2	J	192	A	P-O3'-C3'	-13.15	100.47	120.20
4	L	811	U	OP2-P-O3'	13.15	147.44	108.00
5	M	318	U	OP2-P-O3'	13.14	147.42	108.00
1	I	367	A	O3'-P-O5'	13.14	123.70	104.00
6	N	527	U	P-O3'-C3'	-13.13	100.50	120.20
1	I	263	A	P-O3'-C3'	-13.13	100.51	120.20
2	J	63	A	O3'-P-O5'	-13.12	84.32	104.00
5	M	546	U	O3'-P-O5'	13.12	123.68	104.00
5	M	349	U	OP2-P-O3'	13.12	147.36	108.00
2	J	130	A	O3'-P-O5'	-13.11	84.33	104.00
2	J	222	A	OP2-P-O3'	13.11	147.34	108.00
5	M	348	U	P-O3'-C3'	-13.11	100.53	120.20
2	J	131	A	P-O3'-C3'	-13.10	100.55	120.20
2	J	153	A	P-O3'-C3'	-13.10	100.55	120.20
4	L	511	U	O3'-P-O5'	13.09	123.63	104.00
4	L	643	U	P-O3'-C3'	-13.09	100.57	120.20
3	K	164	A	OP2-P-O3'	13.08	147.25	108.00
4	L	595	U	O3'-P-O5'	-13.08	84.38	104.00
5	M	396	U	O3'-P-O5'	-13.08	84.38	104.00
4	L	499	U	P-O3'-C3'	-13.07	100.59	120.20
4	L	807	U	OP1-P-O3'	-13.07	68.78	108.00
3	K	154	A	OP2-P-O3'	13.07	147.20	108.00
2	J	145	A	O3'-P-O5'	-13.06	84.41	104.00
3	K	91	A	P-O3'-C3'	-13.06	100.61	120.20
2	J	192	A	O3'-P-O5'	13.06	123.58	104.00
5	M	357	U	O3'-P-O5'	13.05	123.58	104.00
4	L	756	U	O3'-P-O5'	13.05	123.57	104.00
5	M	296	U	OP2-P-O3'	13.05	147.14	108.00
5	M	397	U	P-O3'-C3'	-13.04	100.63	120.20
2	J	122	A	O3'-P-O5'	-13.04	84.44	104.00
4	L	650	U	O3'-P-O5'	13.04	123.56	104.00
6	N	458	U	O3'-P-O5'	13.04	123.56	104.00
4	L	479	U	P-O3'-C3'	-13.03	100.65	120.20
4	L	484	U	P-O3'-C3'	-13.03	100.65	120.20
1	I	114	A	P-O3'-C3'	-13.03	100.66	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	180	A	O3'-P-O5'	13.03	123.54	104.00
5	M	457	U	OP2-P-O3'	13.02	147.06	108.00
1	I	306	A	P-O3'-C3'	-13.02	100.67	120.20
1	I	189	A	P-O3'-C3'	-13.02	100.68	120.20
3	K	148	A	O3'-P-O5'	13.00	123.51	104.00
2	J	124	A	O3'-P-O5'	12.99	123.49	104.00
1	I	103	A	O3'-P-O5'	12.99	123.48	104.00
6	N	401	U	P-O3'-C3'	-12.99	100.72	120.20
1	I	189	A	O3'-P-O5'	-12.98	84.53	104.00
1	I	143	A	P-O3'-C3'	12.98	139.67	120.20
4	L	754	U	OP2-P-O3'	12.98	146.94	108.00
3	K	165	A	OP2-P-O3'	12.98	146.93	108.00
4	L	735	U	P-O3'-C3'	-12.97	100.74	120.20
3	K	226	A	OP1-P-O3'	12.97	146.91	108.00
3	K	102	A	P-O3'-C3'	-12.96	100.75	120.20
2	J	247	A	O3'-P-O5'	12.96	123.44	104.00
1	I	285	A	O3'-P-O5'	-12.95	84.57	104.00
1	I	396	A	O3'-P-O5'	-12.95	84.57	104.00
2	J	94	A	P-O3'-C3'	-12.95	100.77	120.20
2	J	115	A	OP2-P-O3'	-12.95	69.14	108.00
4	L	635	U	P-O3'-C3'	-12.95	100.77	120.20
3	K	148	A	OP2-P-O3'	-12.95	69.15	108.00
1	I	140	A	O3'-P-O5'	12.93	123.40	104.00
4	L	735	U	O3'-P-O5'	-12.93	84.61	104.00
1	I	49	A	P-O3'-C3'	-12.93	100.81	120.20
1	I	162	A	O3'-P-O5'	-12.92	84.62	104.00
6	N	351	U	O3'-P-O5'	-12.92	84.62	104.00
2	J	58	A	P-O3'-C3'	-12.91	100.83	120.20
5	M	310	U	O3'-P-O5'	-12.91	84.64	104.00
4	L	614	U	P-O3'-C3'	-12.91	100.84	120.20
6	N	463	U	P-O3'-C3'	-12.91	100.84	120.20
2	J	20	A	P-O3'-C3'	-12.90	100.86	120.20
4	L	763	U	P-O3'-C3'	-12.90	100.85	120.20
2	J	214	A	O3'-P-O5'	12.88	123.32	104.00
1	I	310	A	OP2-P-O3'	12.87	146.61	108.00
2	J	96	A	P-O3'-C3'	-12.87	100.90	120.20
5	M	528	U	O3'-P-O5'	12.87	123.30	104.00
4	L	487	U	O3'-P-O5'	-12.86	84.72	104.00
5	M	522	U	O3'-P-O5'	-12.86	84.72	104.00
5	M	511	U	OP2-P-O3'	12.84	146.53	108.00
6	N	387	U	P-O3'-C3'	12.84	139.46	120.20
2	J	230	A	O3'-P-O5'	-12.84	84.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	740	U	P-O3'-C3'	-12.84	100.94	120.20
4	L	457	U	O3'-P-O5'	12.83	123.24	104.00
5	M	378	U	OP2-P-O3'	-12.83	69.52	108.00
4	L	818	U	OP2-P-O3'	-12.83	69.52	108.00
4	L	496	U	P-O3'-C3'	-12.82	100.97	120.20
5	M	437	U	O3'-P-O5'	-12.81	84.78	104.00
6	N	490	U	P-O3'-C3'	-12.81	100.99	120.20
4	L	683	U	O3'-P-O5'	-12.80	84.80	104.00
2	J	215	A	P-O3'-C3'	-12.79	101.01	120.20
5	M	494	U	O3'-P-O5'	12.79	123.19	104.00
4	L	649	U	P-O3'-C3'	-12.79	101.02	120.20
6	N	419	U	O3'-P-O5'	12.78	123.17	104.00
2	J	187	A	O3'-P-O5'	12.76	123.14	104.00
5	M	440	U	O3'-P-O5'	12.76	123.14	104.00
1	I	51	A	P-O3'-C3'	-12.76	101.06	120.20
1	I	273	A	OP2-P-O3'	12.76	146.28	108.00
4	L	635	U	O3'-P-O5'	-12.76	84.86	104.00
4	L	533	U	P-O3'-C3'	-12.76	101.07	120.20
6	N	407	U	P-O3'-C3'	-12.75	101.07	120.20
4	L	465	U	O3'-P-O5'	12.74	123.11	104.00
4	L	560	U	P-O3'-C3'	-12.74	101.09	120.20
5	M	318	U	O3'-P-O5'	-12.73	84.90	104.00
1	I	331	A	P-O3'-C3'	-12.73	101.11	120.20
2	J	129	A	OP2-P-O3'	12.73	146.18	108.00
1	I	100	A	P-O3'-C3'	-12.72	101.12	120.20
2	J	188	A	OP2-P-O3'	-12.71	69.86	108.00
4	L	487	U	OP2-P-O3'	12.71	146.14	108.00
3	K	79	A	P-O3'-C3'	-12.70	101.14	120.20
2	J	15	A	O3'-P-O5'	12.70	123.05	104.00
5	M	391	U	O3'-P-O5'	12.70	123.05	104.00
6	N	440	U	O3'-P-O5'	-12.68	84.98	104.00
2	J	66	A	P-O3'-C3'	-12.68	101.19	120.20
6	N	448	U	O3'-P-O5'	-12.68	84.99	104.00
5	M	400	U	P-O3'-C3'	-12.67	101.19	120.20
2	J	242	A	O3'-P-O5'	12.66	123.00	104.00
3	K	131	A	P-O3'-C3'	-12.63	101.25	120.20
1	I	266	A	OP2-P-O3'	12.63	145.88	108.00
1	I	29	A	P-O3'-C3'	-12.62	101.27	120.20
1	I	57	A	O3'-P-O5'	-12.62	85.07	104.00
1	I	345	A	P-O3'-C3'	-12.61	101.28	120.20
4	L	513	U	P-O3'-C3'	-12.61	101.28	120.20
2	J	102	A	P-O3'-C3'	-12.61	101.29	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	157	A	O3'-P-O5'	-12.60	85.10	104.00
3	K	26	A	OP2-P-O3'	-12.60	70.21	108.00
5	M	358	U	O3'-P-O5'	12.59	122.89	104.00
2	J	14	A	O3'-P-O5'	12.58	122.88	104.00
4	L	810	U	OP2-P-O3'	12.57	145.72	108.00
4	L	532	U	OP2-P-O3'	12.57	145.70	108.00
5	M	529	U	P-O3'-C3'	-12.57	101.35	120.20
1	I	346	A	P-O3'-C3'	-12.54	101.38	120.20
5	M	409	U	P-O3'-C3'	-12.54	101.38	120.20
3	K	40	A	O3'-P-O5'	12.52	122.78	104.00
4	L	620	U	OP2-P-O3'	-12.52	70.45	108.00
1	I	138	A	O3'-P-O5'	-12.52	85.22	104.00
6	N	303	U	P-O3'-C3'	12.51	138.96	120.20
2	J	159	A	P-O3'-C3'	-12.50	101.45	120.20
4	L	655	U	O3'-P-O5'	12.50	122.75	104.00
3	K	151	A	O3'-P-O5'	12.49	122.74	104.00
4	L	705	U	O3'-P-O5'	12.49	122.73	104.00
4	L	694	U	OP1-P-O3'	-12.48	70.54	108.00
1	I	41	A	OP2-P-O3'	-12.48	70.56	108.00
2	J	98	A	O3'-P-O5'	-12.48	85.28	104.00
4	L	561	U	O3'-P-O5'	12.48	122.72	104.00
2	J	91	A	P-O3'-C3'	-12.48	101.48	120.20
2	J	29	A	O3'-P-O5'	-12.47	85.29	104.00
3	K	203	A	O3'-P-O5'	12.47	122.71	104.00
1	I	395	A	O3'-P-O5'	-12.47	85.30	104.00
1	I	138	A	OP2-P-O3'	12.47	145.41	108.00
1	I	301	A	O3'-P-O5'	12.47	122.70	104.00
1	I	188	A	O3'-P-O5'	-12.46	85.31	104.00
4	L	688	U	P-O3'-C3'	-12.46	101.51	120.20
5	M	398	U	P-O3'-C3'	-12.46	101.51	120.20
5	M	298	U	P-O3'-C3'	-12.46	101.51	120.20
3	K	64	A	O3'-P-O5'	-12.46	85.31	104.00
4	L	520	U	O3'-P-O5'	12.46	122.69	104.00
1	I	131	A	O3'-P-O5'	-12.45	85.32	104.00
1	I	161	A	OP2-P-O3'	12.44	145.32	108.00
5	M	299	U	OP2-P-O3'	12.44	145.32	108.00
2	J	106	A	P-O3'-C3'	-12.44	101.55	120.20
5	M	295	U	P-O3'-C3'	-12.43	101.55	120.20
6	N	484	U	OP2-P-O3'	12.43	145.29	108.00
2	J	163	A	O3'-P-O5'	12.43	122.64	104.00
4	L	468	U	P-O3'-C3'	-12.43	101.56	120.20
4	L	612	U	P-O3'-C3'	-12.42	101.56	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	434	U	P-O3'-C3'	-12.41	101.58	120.20
6	N	485	U	OP2-P-O3'	12.41	145.25	108.00
6	N	411	U	P-O3'-C3'	-12.41	101.59	120.20
5	M	402	U	O3'-P-O5'	12.40	122.61	104.00
6	N	318	U	OP1-P-O3'	12.39	145.16	108.00
4	L	497	U	OP1-P-O3'	-12.38	70.85	108.00
4	L	649	U	O3'-P-O5'	-12.38	85.43	104.00
6	N	497	U	P-O3'-C3'	-12.38	101.63	120.20
5	M	448	U	P-O3'-C3'	-12.37	101.65	120.20
3	K	118	A	OP2-P-O3'	12.35	145.05	108.00
4	L	812	U	O3'-P-O5'	-12.35	85.48	104.00
5	M	322	U	OP2-P-O3'	12.35	145.03	108.00
4	L	459	U	OP2-P-O3'	12.34	145.03	108.00
5	M	328	U	P-O3'-C3'	-12.34	101.69	120.20
6	N	482	U	P-O3'-C3'	-12.33	101.70	120.20
5	M	474	U	OP2-P-O3'	-12.33	71.01	108.00
5	M	424	U	O3'-P-O5'	12.31	122.46	104.00
1	I	309	A	O3'-P-O5'	-12.30	85.54	104.00
2	J	75	A	P-O3'-C3'	-12.30	101.75	120.20
5	M	308	U	O3'-P-O5'	12.30	122.45	104.00
5	M	484	U	O3'-P-O5'	-12.30	85.55	104.00
1	I	355	A	P-O3'-C3'	-12.30	101.76	120.20
1	I	81	A	O3'-P-O5'	12.29	122.44	104.00
1	I	242	A	P-O3'-C3'	-12.29	101.77	120.20
4	L	511	U	OP2-P-O3'	-12.27	71.18	108.00
2	J	225	A	P-O3'-C3'	-12.26	101.81	120.20
2	J	29	A	OP1-P-O3'	-12.26	71.23	108.00
6	N	391	U	OP2-P-O3'	-12.26	71.23	108.00
1	I	296	A	OP2-P-O3'	12.25	144.76	108.00
4	L	453	U	O3'-P-O5'	12.25	122.38	104.00
3	K	93	A	O3'-P-O5'	-12.24	85.64	104.00
6	N	498	U	P-O3'-C3'	-12.24	101.84	120.20
6	N	304	U	OP1-P-O3'	12.24	144.71	108.00
6	N	334	U	O3'-P-O5'	-12.23	85.65	104.00
4	L	693	U	P-O3'-C3'	-12.23	101.85	120.20
5	M	483	U	P-O3'-C3'	-12.23	101.85	120.20
1	I	9	A	P-O3'-C3'	-12.22	101.86	120.20
3	K	227	A	P-O3'-C3'	12.22	138.53	120.20
2	J	92	A	O3'-P-O5'	12.22	122.33	104.00
1	I	164	A	O3'-P-O5'	12.22	122.32	104.00
2	J	163	A	OP2-P-O3'	-12.21	71.36	108.00
4	L	688	U	O3'-P-O5'	12.21	122.32	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	168	A	P-O3'-C3'	-12.20	101.90	120.20
2	J	11	A	P-O3'-C3'	-12.19	101.92	120.20
2	J	25	A	OP2-P-O3'	-12.19	71.43	108.00
4	L	767	U	P-O3'-C3'	12.19	138.48	120.20
2	J	222	A	OP1-P-O3'	-12.18	71.45	108.00
4	L	576	U	OP2-P-O3'	12.18	144.55	108.00
1	I	241	A	O3'-P-O5'	-12.18	85.73	104.00
5	M	485	U	OP2-P-O3'	12.18	144.53	108.00
3	K	170	A	P-O3'-C3'	-12.17	101.94	120.20
5	M	392	U	OP2-P-O3'	12.17	144.52	108.00
6	N	454	U	OP2-P-O3'	12.15	144.47	108.00
2	J	47	A	OP1-P-O3'	-12.15	71.54	108.00
6	N	278	U	OP2-P-O3'	12.15	144.46	108.00
2	J	47	A	OP2-P-O3'	12.15	144.44	108.00
3	K	49	A	OP2-P-O3'	-12.14	71.58	108.00
6	N	384	U	O3'-P-O5'	12.14	122.21	104.00
4	L	454	U	O3'-P-O5'	12.14	122.21	104.00
1	I	42	A	P-O3'-C3'	-12.13	102.00	120.20
4	L	752	U	P-O3'-C3'	-12.13	102.00	120.20
1	I	13	A	OP2-P-O3'	12.13	144.38	108.00
6	N	415	U	O3'-P-O5'	-12.12	85.81	104.00
4	L	795	U	O3'-P-O5'	12.12	122.17	104.00
4	L	760	U	OP2-P-O3'	12.11	144.34	108.00
1	I	241	A	P-O3'-C3'	-12.11	102.03	120.20
1	I	138	A	P-O3'-C3'	-12.11	102.03	120.20
3	K	136	A	P-O3'-C3'	-12.11	102.04	120.20
6	N	408	U	OP2-P-O3'	-12.11	71.68	108.00
2	J	37	A	O3'-P-O5'	12.10	122.16	104.00
3	K	96	A	OP2-P-O3'	12.10	144.31	108.00
4	L	780	U	O3'-P-O5'	12.10	122.16	104.00
1	I	168	A	O3'-P-O5'	12.10	122.15	104.00
2	J	175	A	O3'-P-O5'	-12.10	85.85	104.00
1	I	128	A	OP2-P-O3'	12.09	144.27	108.00
4	L	645	U	O3'-P-O5'	12.09	122.14	104.00
1	I	214	A	O3'-P-O5'	-12.08	85.88	104.00
2	J	55	A	OP2-P-O3'	12.07	144.22	108.00
6	N	523	U	OP2-P-O3'	-12.07	71.80	108.00
4	L	485	U	P-O3'-C3'	-12.06	102.11	120.20
1	I	183	A	O3'-P-O5'	12.05	122.08	104.00
1	I	130	A	P-O3'-C3'	-12.05	102.13	120.20
2	J	270	A	O3'-P-O5'	12.05	122.07	104.00
1	I	294	A	O3'-P-O5'	12.04	122.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	257	A	P-O3'-C3'	-12.04	102.15	120.20
2	J	259	A	P-O3'-C3'	-12.04	102.15	120.20
3	K	160	A	P-O3'-C3'	-12.03	102.15	120.20
4	L	423	U	O3'-P-O5'	-12.03	85.95	104.00
4	L	557	U	OP2-P-O3'	12.03	144.10	108.00
6	N	405	U	O3'-P-O5'	12.01	122.02	104.00
3	K	163	A	O3'-P-O5'	-12.01	85.98	104.00
5	M	419	U	P-O3'-C3'	-12.01	102.19	120.20
1	I	6	A	O3'-P-O5'	12.00	122.00	104.00
4	L	601	U	P-O3'-C3'	-12.00	102.20	120.20
5	M	368	U	OP1-P-O3'	-12.00	72.00	108.00
6	N	406	U	P-O3'-C3'	-12.00	102.20	120.20
1	I	3	A	OP2-P-O3'	-11.99	72.03	108.00
1	I	334	A	OP2-P-O3'	11.99	143.98	108.00
3	K	119	A	OP2-P-O3'	11.99	143.98	108.00
6	N	349	U	O3'-P-O5'	11.99	121.99	104.00
4	L	674	U	P-O3'-C3'	-11.99	102.21	120.20
1	I	32	A	O3'-P-O5'	11.98	121.97	104.00
3	K	128	A	P-O3'-C3'	-11.97	102.24	120.20
3	K	209	A	O3'-P-O5'	-11.97	86.04	104.00
4	L	738	U	OP2-P-O3'	-11.95	72.16	108.00
4	L	814	U	OP2-P-O3'	11.95	143.84	108.00
5	M	338	U	P-O3'-C3'	-11.95	102.28	120.20
1	I	328	A	O3'-P-O5'	-11.93	86.10	104.00
2	J	264	A	O3'-P-O5'	-11.93	86.11	104.00
5	M	436	U	O3'-P-O5'	-11.92	86.12	104.00
6	N	282	U	O3'-P-O5'	11.92	121.88	104.00
6	N	526	U	P-O3'-C3'	-11.92	102.32	120.20
1	I	64	A	OP2-P-O3'	11.92	143.75	108.00
5	M	419	U	OP2-P-O3'	11.91	143.74	108.00
1	I	359	A	P-O3'-C3'	-11.90	102.34	120.20
5	M	413	U	O3'-P-O5'	11.90	121.86	104.00
1	I	294	A	P-O3'-C3'	-11.90	102.35	120.20
1	I	329	A	OP2-P-O3'	11.90	143.69	108.00
5	M	376	U	OP2-P-O3'	11.89	143.69	108.00
4	L	756	U	P-O3'-C3'	-11.89	102.37	120.20
4	L	800	U	P-O3'-C3'	-11.88	102.38	120.20
1	I	311	A	P-O3'-C3'	-11.88	102.38	120.20
1	I	118	A	P-O3'-C3'	-11.87	102.39	120.20
1	I	270	A	OP2-P-O3'	11.87	143.62	108.00
1	I	36	A	O3'-P-O5'	11.87	121.81	104.00
3	K	85	A	P-O3'-C3'	-11.87	102.40	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	101	A	O3'-P-O5'	-11.85	86.23	104.00
5	M	546	U	P-O3'-C3'	-11.85	102.43	120.20
2	J	113	A	P-O3'-C3'	-11.84	102.44	120.20
6	N	401	U	O3'-P-O5'	-11.84	86.25	104.00
1	I	18	A	OP2-P-O3'	11.83	143.50	108.00
1	I	135	A	OP1-P-O3'	-11.83	72.50	108.00
1	I	390	A	P-O3'-C3'	11.83	137.95	120.20
1	I	382	A	OP2-P-O3'	-11.81	72.56	108.00
2	J	65	A	P-O3'-C3'	-11.81	102.48	120.20
5	M	350	U	OP1-P-O3'	-11.81	72.58	108.00
3	K	38	A	OP2-P-O3'	-11.80	72.59	108.00
1	I	200	A	O3'-P-O5'	11.80	121.70	104.00
1	I	129	A	OP1-P-O3'	-11.80	72.61	108.00
1	I	342	A	OP2-P-O3'	11.79	143.38	108.00
6	N	369	U	O3'-P-O5'	11.79	121.69	104.00
1	I	196	A	P-O3'-C3'	-11.76	102.56	120.20
5	M	540	U	P-O3'-C3'	-11.76	102.57	120.20
1	I	370	A	O3'-P-O5'	11.75	121.62	104.00
6	N	474	U	OP2-P-O3'	11.74	143.23	108.00
1	I	72	A	OP2-P-O3'	11.74	143.22	108.00
5	M	453	U	OP2-P-O3'	11.74	143.22	108.00
1	I	171	A	O3'-P-O5'	11.74	121.61	104.00
4	L	640	U	O3'-P-O5'	11.73	121.59	104.00
1	I	195	A	P-O3'-C3'	-11.73	102.61	120.20
4	L	586	U	P-O3'-C3'	-11.73	102.61	120.20
5	M	317	U	P-O3'-C3'	-11.71	102.63	120.20
6	N	311	U	OP2-P-O3'	11.71	143.12	108.00
1	I	139	A	O3'-P-O5'	11.70	121.54	104.00
6	N	311	U	P-O3'-C3'	-11.69	102.66	120.20
1	I	1	A	OP2-P-O3'	-11.69	72.93	108.00
3	K	61	A	O3'-P-O5'	11.69	121.53	104.00
4	L	634	U	OP2-P-O3'	11.69	143.06	108.00
4	L	674	U	OP2-P-O3'	11.68	143.05	108.00
5	M	520	U	O3'-P-O5'	-11.67	86.49	104.00
1	I	173	A	P-O3'-C3'	-11.67	102.70	120.20
4	L	769	U	O3'-P-O5'	11.66	121.50	104.00
6	N	526	U	OP2-P-O3'	11.66	142.98	108.00
5	M	326	U	P-O3'-C3'	-11.66	102.71	120.20
3	K	7	A	P-O3'-C3'	-11.66	102.72	120.20
2	J	132	A	OP2-P-O3'	11.65	142.96	108.00
5	M	334	U	OP1-P-O3'	-11.65	73.04	108.00
6	N	449	U	P-O3'-C3'	-11.65	102.73	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	779	U	OP2-P-O3'	11.64	142.93	108.00
3	K	104	A	O3'-P-O5'	-11.64	86.54	104.00
2	J	38	A	P-O3'-C3'	-11.64	102.74	120.20
1	I	364	A	O3'-P-O5'	11.63	121.45	104.00
5	M	426	U	OP2-P-O3'	-11.63	73.11	108.00
5	M	437	U	OP2-P-O3'	11.62	142.87	108.00
1	I	281	A	P-O3'-C3'	-11.62	102.77	120.20
3	K	120	A	OP1-P-O3'	-11.62	73.14	108.00
2	J	41	A	OP2-P-O3'	-11.61	73.16	108.00
4	L	706	U	OP2-P-O3'	11.62	142.85	108.00
1	I	90	A	P-O3'-C3'	-11.61	102.78	120.20
4	L	471	U	OP2-P-O3'	-11.61	73.16	108.00
1	I	251	A	P-O3'-C3'	-11.59	102.81	120.20
4	L	525	U	P-O3'-C3'	-11.59	102.81	120.20
5	M	347	U	O3'-P-O5'	-11.59	86.61	104.00
4	L	558	U	OP1-P-O3'	-11.57	73.28	108.00
5	M	486	U	O3'-P-O5'	11.57	121.35	104.00
6	N	364	U	P-O3'-C3'	-11.57	102.85	120.20
2	J	108	A	O3'-P-O5'	11.56	121.34	104.00
5	M	374	U	P-O3'-C3'	-11.55	102.88	120.20
2	J	59	A	O3'-P-O5'	11.54	121.31	104.00
6	N	292	U	O3'-P-O5'	-11.54	86.69	104.00
1	I	1	A	O3'-P-O5'	11.53	121.30	104.00
4	L	795	U	P-O3'-C3'	-11.52	102.92	120.20
4	L	474	U	P-O3'-C3'	-11.52	102.92	120.20
4	L	627	U	P-O3'-C3'	-11.52	102.92	120.20
5	M	353	U	P-O3'-C3'	-11.51	102.93	120.20
4	L	442	U	OP2-P-O3'	-11.51	73.47	108.00
6	N	447	U	P-O3'-C3'	-11.51	102.94	120.20
3	K	99	A	O3'-P-O5'	-11.50	86.75	104.00
5	M	446	U	O3'-P-O5'	11.50	121.25	104.00
5	M	543	U	O3'-P-O5'	-11.50	86.76	104.00
2	J	248	A	O3'-P-O5'	-11.49	86.76	104.00
5	M	425	U	P-O3'-C3'	-11.49	102.96	120.20
5	M	498	U	O3'-P-O5'	11.48	121.23	104.00
1	I	339	A	P-O3'-C3'	-11.48	102.98	120.20
3	K	63	A	O3'-P-O5'	11.48	121.22	104.00
5	M	285	U	O3'-P-O5'	11.48	121.22	104.00
5	M	366	U	P-O3'-C3'	-11.47	102.99	120.20
4	L	596	U	P-O3'-C3'	-11.47	102.99	120.20
5	M	396	U	P-O3'-C3'	-11.46	103.00	120.20
1	I	354	A	O3'-P-O5'	-11.46	86.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	458	U	O3'-P-O5'	-11.46	86.81	104.00
5	M	465	U	O3'-P-O5'	-11.45	86.82	104.00
4	L	606	U	P-O3'-C3'	-11.45	103.03	120.20
5	M	316	U	P-O3'-C3'	-11.44	103.03	120.20
4	L	641	U	O3'-P-O5'	11.44	121.16	104.00
4	L	599	U	P-O3'-C3'	-11.43	103.05	120.20
6	N	303	U	OP1-P-O3'	11.43	142.29	108.00
2	J	148	A	P-O3'-C3'	-11.43	103.06	120.20
5	M	374	U	O3'-P-O5'	11.43	121.14	104.00
1	I	100	A	O3'-P-O5'	-11.42	86.86	104.00
3	K	70	A	O3'-P-O5'	-11.42	86.87	104.00
6	N	478	U	P-O3'-C3'	-11.41	103.08	120.20
1	I	382	A	O3'-P-O5'	11.41	121.11	104.00
3	K	227	A	O3'-P-O5'	-11.41	86.89	104.00
1	I	4	A	P-O3'-C3'	11.40	137.31	120.20
1	I	377	A	O3'-P-O5'	11.39	121.09	104.00
4	L	532	U	OP1-P-O3'	-11.39	73.81	108.00
3	K	227	A	OP1-P-O3'	11.39	142.18	108.00
4	L	764	U	OP2-P-O3'	11.39	142.17	108.00
3	K	78	A	P-O3'-C3'	-11.39	103.12	120.20
2	J	255	A	O3'-P-O5'	11.38	121.06	104.00
6	N	449	U	OP2-P-O3'	11.38	142.13	108.00
1	I	48	A	OP2-P-O3'	11.37	142.12	108.00
4	L	476	U	P-O3'-C3'	-11.37	103.14	120.20
1	I	9	A	O3'-P-O5'	11.37	121.05	104.00
4	L	516	U	OP2-P-O3'	11.37	142.09	108.00
4	L	508	U	O3'-P-O5'	-11.36	86.96	104.00
3	K	13	A	O3'-P-O5'	-11.36	86.96	104.00
1	I	181	A	O3'-P-O5'	-11.35	86.97	104.00
1	I	322	A	OP2-P-O3'	11.34	142.03	108.00
4	L	525	U	O3'-P-O5'	-11.34	86.99	104.00
5	M	414	U	OP2-P-O3'	-11.33	74.00	108.00
4	L	684	U	OP2-P-O3'	-11.33	74.01	108.00
1	I	362	A	O3'-P-O5'	-11.32	87.02	104.00
2	J	229	A	OP2-P-O3'	11.31	141.94	108.00
2	J	70	A	OP2-P-O3'	11.31	141.93	108.00
1	I	264	A	P-O3'-C3'	-11.31	103.24	120.20
4	L	456	U	OP2-P-O3'	-11.31	74.08	108.00
3	K	110	A	OP2-P-O3'	11.30	141.89	108.00
5	M	282	U	O3'-P-O5'	11.29	120.94	104.00
5	M	517	U	P-O3'-C3'	-11.29	103.26	120.20
4	L	705	U	OP1-P-O3'	-11.29	74.13	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	301	A	P-O3'-C3'	-11.28	103.28	120.20
4	L	591	U	O3'-P-O5'	11.28	120.92	104.00
1	I	335	A	O3'-P-O5'	-11.28	87.08	104.00
6	N	355	U	O3'-P-O5'	11.28	120.92	104.00
1	I	103	A	OP2-P-O3'	-11.28	74.17	108.00
2	J	266	A	P-O3'-C3'	-11.27	103.29	120.20
1	I	226	A	P-O3'-C3'	-11.27	103.30	120.20
3	K	30	A	O3'-P-O5'	11.27	120.90	104.00
3	K	153	A	O3'-P-O5'	11.27	120.90	104.00
5	M	493	U	OP2-P-O3'	-11.26	74.21	108.00
5	M	291	U	P-O3'-C3'	-11.26	103.31	120.20
6	N	451	U	OP2-P-O3'	11.26	141.77	108.00
4	L	507	U	P-O3'-C3'	-11.25	103.32	120.20
5	M	306	U	P-O3'-C3'	-11.25	103.32	120.20
2	J	146	A	O3'-P-O5'	-11.25	87.13	104.00
4	L	771	U	P-O3'-C3'	-11.25	103.33	120.20
4	L	777	U	OP2-P-O3'	11.25	141.74	108.00
1	I	213	A	P-O3'-C3'	-11.24	103.34	120.20
1	I	222	A	O3'-P-O5'	-11.24	87.14	104.00
5	M	346	U	P-O3'-C3'	-11.24	103.34	120.20
2	J	253	A	P-O3'-C3'	-11.24	103.35	120.20
3	K	109	A	O3'-P-O5'	-11.22	87.16	104.00
5	M	526	U	OP2-P-O3'	11.22	141.67	108.00
2	J	48	A	O3'-P-O5'	-11.22	87.17	104.00
3	K	253	A	O3'-P-O5'	-11.22	87.17	104.00
2	J	30	A	P-O3'-C3'	-11.20	103.40	120.20
5	M	423	U	OP2-P-O3'	-11.20	74.40	108.00
5	M	313	U	O3'-P-O5'	11.20	120.80	104.00
4	L	614	U	O3'-P-O5'	-11.19	87.21	104.00
4	L	487	U	P-O3'-C3'	-11.19	103.41	120.20
5	M	479	U	OP2-P-O3'	-11.19	74.43	108.00
4	L	587	U	OP2-P-O3'	11.19	141.56	108.00
5	M	417	U	P-O3'-C3'	-11.18	103.43	120.20
4	L	531	U	OP2-P-O3'	11.18	141.52	108.00
2	J	206	A	O3'-P-O5'	-11.17	87.25	104.00
4	L	751	U	OP2-P-O3'	11.17	141.51	108.00
4	L	670	U	O3'-P-O5'	-11.17	87.25	104.00
4	L	739	U	P-O3'-C3'	-11.17	103.45	120.20
2	J	132	A	P-O3'-C3'	-11.17	103.45	120.20
2	J	228	A	P-O3'-C3'	-11.17	103.45	120.20
3	K	228	A	P-O3'-C3'	11.16	136.94	120.20
2	J	253	A	O3'-P-O5'	-11.16	87.26	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	587	U	P-O3'-C3'	-11.16	103.46	120.20
6	N	409	U	O3'-P-O5'	11.16	120.74	104.00
4	L	794	U	P-O3'-C3'	-11.15	103.48	120.20
4	L	548	U	P-O3'-C3'	-11.14	103.48	120.20
1	I	285	A	OP2-P-O3'	11.14	141.43	108.00
4	L	535	U	P-O3'-C3'	-11.14	103.49	120.20
1	I	323	A	OP2-P-O3'	11.14	141.42	108.00
1	I	21	A	P-O3'-C3'	-11.13	103.50	120.20
1	I	203	A	P-O3'-C3'	-11.13	103.50	120.20
1	I	173	A	O3'-P-O5'	11.12	120.69	104.00
4	L	806	U	OP2-P-O3'	11.11	141.34	108.00
1	I	323	A	OP1-P-O3'	-11.11	74.68	108.00
4	L	698	U	O3'-P-O5'	-11.10	87.34	104.00
5	M	303	U	O3'-P-O5'	11.10	120.66	104.00
5	M	462	U	P-O3'-C3'	-11.10	103.55	120.20
6	N	371	U	O3'-P-O5'	11.10	120.65	104.00
2	J	66	A	O3'-P-O5'	11.10	120.65	104.00
1	I	255	A	OP2-P-O3'	11.10	141.29	108.00
3	K	172	A	OP2-P-O3'	-11.10	74.71	108.00
5	M	332	U	P-O3'-C3'	-11.10	103.55	120.20
5	M	496	U	P-O3'-C3'	-11.10	103.56	120.20
1	I	326	A	P-O3'-C3'	-11.09	103.56	120.20
3	K	12	A	P-O3'-C3'	11.09	136.84	120.20
4	L	658	U	P-O3'-C3'	-11.09	103.57	120.20
5	M	420	U	OP2-P-O3'	11.09	141.27	108.00
2	J	221	A	P-O3'-C3'	-11.08	103.58	120.20
2	J	166	A	O3'-P-O5'	11.07	120.61	104.00
5	M	396	U	OP2-P-O3'	11.07	141.22	108.00
4	L	711	U	OP2-P-O3'	11.07	141.22	108.00
2	J	52	A	O3'-P-O5'	-11.06	87.41	104.00
2	J	168	A	O3'-P-O5'	11.05	120.58	104.00
3	K	253	A	OP1-P-O3'	-11.05	74.83	108.00
1	I	52	A	P-O3'-C3'	-11.04	103.64	120.20
3	K	150	A	OP2-P-O3'	-11.04	74.88	108.00
5	M	512	U	OP2-P-O3'	11.04	141.11	108.00
5	M	509	U	P-O3'-C3'	-11.03	103.65	120.20
1	I	26	A	OP2-P-O3'	11.03	141.08	108.00
2	J	93	A	OP2-P-O3'	11.03	141.07	108.00
2	J	224	A	O3'-P-O5'	11.02	120.53	104.00
2	J	71	A	P-O3'-C3'	-11.02	103.67	120.20
3	K	118	A	OP1-P-O3'	-11.02	74.95	108.00
4	L	601	U	O3'-P-O5'	-11.02	87.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	104	A	OP2-P-O3'	-11.01	74.96	108.00
1	I	221	A	O3'-P-O5'	11.01	120.52	104.00
4	L	743	U	P-O3'-C3'	-11.00	103.70	120.20
5	M	459	U	P-O3'-C3'	-11.00	103.70	120.20
1	I	234	A	P-O3'-C3'	-10.99	103.72	120.20
1	I	107	A	P-O3'-C3'	-10.98	103.72	120.20
3	K	4	A	O3'-P-O5'	-10.98	87.53	104.00
1	I	199	A	O3'-P-O5'	10.98	120.47	104.00
3	K	73	A	OP2-P-O3'	10.98	140.94	108.00
4	L	550	U	P-O3'-C3'	-10.98	103.73	120.20
5	M	470	U	O3'-P-O5'	10.97	120.45	104.00
2	J	143	A	P-O3'-C3'	-10.96	103.75	120.20
6	N	322	U	O3'-P-O5'	-10.96	87.56	104.00
3	K	186	A	P-O3'-C3'	-10.96	103.76	120.20
4	L	765	U	OP1-P-O3'	-10.96	75.12	108.00
4	L	638	U	OP1-P-O3'	-10.96	75.14	108.00
5	M	331	U	P-O3'-C3'	-10.96	103.77	120.20
3	K	42	A	O3'-P-O5'	-10.95	87.57	104.00
4	L	619	U	O3'-P-O5'	10.95	120.43	104.00
4	L	749	U	P-O3'-C3'	-10.95	103.77	120.20
2	J	245	A	P-O3'-C3'	-10.93	103.80	120.20
6	N	363	U	O3'-P-O5'	10.93	120.39	104.00
4	L	486	U	P-O3'-C3'	-10.92	103.82	120.20
6	N	357	U	OP2-P-O3'	-10.92	75.24	108.00
3	K	82	A	P-O3'-C3'	-10.90	103.84	120.20
1	I	341	A	OP2-P-O3'	10.90	140.70	108.00
4	L	469	U	P-O3'-C3'	-10.90	103.85	120.20
3	K	184	A	O3'-P-O5'	10.90	120.35	104.00
6	N	458	U	P-O3'-C3'	10.89	136.54	120.20
4	L	820	U	P-O3'-C3'	10.89	136.53	120.20
6	N	368	U	O3'-P-O5'	10.89	120.33	104.00
1	I	111	A	O3'-P-O5'	-10.88	87.68	104.00
2	J	27	A	O3'-P-O5'	10.88	120.32	104.00
3	K	249	A	P-O3'-C3'	-10.88	103.89	120.20
5	M	531	U	OP1-P-O3'	-10.88	75.37	108.00
5	M	435	U	O3'-P-O5'	10.87	120.31	104.00
6	N	397	U	P-O3'-C3'	-10.87	103.89	120.20
5	M	403	U	P-O3'-C3'	-10.87	103.89	120.20
2	J	266	A	O3'-P-O5'	10.86	120.30	104.00
2	J	28	A	O3'-P-O5'	-10.86	87.71	104.00
4	L	442	U	O3'-P-O5'	10.86	120.29	104.00
5	M	523	U	OP2-P-O3'	-10.85	75.44	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	136	A	OP1-P-O3'	-10.85	75.45	108.00
1	I	233	A	O3'-P-O5'	-10.85	87.73	104.00
1	I	185	A	P-O3'-C3'	-10.85	103.93	120.20
4	L	481	U	P-O3'-C3'	-10.84	103.93	120.20
1	I	119	A	OP1-P-O3'	-10.84	75.47	108.00
2	J	241	A	P-O3'-C3'	-10.84	103.94	120.20
4	L	507	U	OP2-P-O3'	10.84	140.53	108.00
2	J	249	A	P-O3'-C3'	-10.84	103.94	120.20
6	N	312	U	P-O3'-C3'	-10.84	103.94	120.20
5	M	333	U	OP1-P-O3'	-10.83	75.50	108.00
3	K	108	A	OP2-P-O3'	10.82	140.47	108.00
1	I	356	A	P-O3'-C3'	-10.82	103.97	120.20
4	L	734	U	P-O3'-C3'	-10.81	103.99	120.20
4	L	523	U	OP2-P-O3'	-10.81	75.58	108.00
4	L	699	U	OP2-P-O3'	10.80	140.41	108.00
1	I	68	A	O3'-P-O5'	-10.80	87.80	104.00
2	J	120	A	O3'-P-O5'	10.79	120.18	104.00
2	J	130	A	P-O3'-C3'	-10.78	104.03	120.20
3	K	87	A	O3'-P-O5'	10.78	120.17	104.00
4	L	441	U	OP2-P-O3'	-10.78	75.67	108.00
5	M	500	U	O3'-P-O5'	10.78	120.17	104.00
1	I	187	A	P-O3'-C3'	-10.77	104.04	120.20
4	L	438	U	OP2-P-O3'	-10.77	75.69	108.00
6	N	303	U	O3'-P-O5'	-10.76	87.85	104.00
3	K	159	A	O3'-P-O5'	10.76	120.14	104.00
3	K	75	A	P-O3'-C3'	-10.76	104.06	120.20
4	L	673	U	P-O3'-C3'	-10.76	104.06	120.20
5	M	427	U	O3'-P-O5'	10.75	120.13	104.00
4	L	733	U	P-O3'-C3'	-10.75	104.08	120.20
6	N	409	U	P-O3'-C3'	-10.74	104.08	120.20
2	J	107	A	P-O3'-C3'	-10.74	104.09	120.20
1	I	90	A	OP2-P-O3'	10.74	140.21	108.00
1	I	316	A	O3'-P-O5'	-10.73	87.91	104.00
4	L	524	U	P-O3'-C3'	-10.72	104.12	120.20
5	M	377	U	OP2-P-O3'	10.72	140.16	108.00
5	M	364	U	P-O3'-C3'	-10.71	104.13	120.20
4	L	501	U	P-O3'-C3'	-10.71	104.13	120.20
4	L	575	U	P-O3'-C3'	-10.71	104.14	120.20
4	L	708	U	O3'-P-O5'	10.71	120.06	104.00
1	I	265	A	O3'-P-O5'	-10.70	87.95	104.00
2	J	130	A	OP2-P-O3'	10.70	140.09	108.00
5	M	520	U	OP2-P-O3'	10.70	140.10	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	304	U	OP2-P-O3'	-10.69	75.94	108.00
2	J	70	A	OP1-P-O3'	-10.68	75.96	108.00
4	L	662	U	OP2-P-O3'	-10.68	75.97	108.00
1	I	59	A	P-O3'-C3'	-10.67	104.19	120.20
3	K	156	A	P-O3'-C3'	-10.67	104.19	120.20
3	K	219	A	P-O3'-C3'	10.66	136.20	120.20
6	N	344	U	OP2-P-O3'	-10.66	76.01	108.00
2	J	26	A	P-O3'-C3'	-10.66	104.21	120.20
4	L	576	U	OP1-P-O3'	-10.66	76.03	108.00
2	J	56	A	OP1-P-O3'	-10.65	76.04	108.00
3	K	126	A	P-O3'-C3'	-10.65	104.22	120.20
2	J	255	A	P-O3'-C3'	-10.64	104.24	120.20
2	J	35	A	O3'-P-O5'	10.64	119.95	104.00
1	I	166	A	P-O3'-C3'	-10.63	104.26	120.20
5	M	537	U	OP1-P-O3'	-10.63	76.12	108.00
1	I	270	A	P-O3'-C3'	-10.62	104.26	120.20
1	I	324	A	P-O3'-C3'	-10.61	104.28	120.20
4	L	814	U	O3'-P-O5'	-10.61	88.08	104.00
5	M	504	U	O3'-P-O5'	-10.61	88.08	104.00
2	J	160	A	P-O3'-C3'	-10.61	104.29	120.20
6	N	496	U	OP2-P-O3'	10.60	139.79	108.00
1	I	353	A	OP2-P-O3'	10.60	139.78	108.00
1	I	295	A	O3'-P-O5'	10.58	119.87	104.00
5	M	363	U	OP2-P-O3'	-10.58	76.26	108.00
1	I	85	A	P-O3'-C3'	-10.58	104.33	120.20
3	K	76	A	O3'-P-O5'	-10.58	88.13	104.00
1	I	342	A	OP1-P-O3'	-10.57	76.29	108.00
4	L	609	U	O3'-P-O5'	10.57	119.86	104.00
6	N	278	U	OP1-P-O3'	-10.57	76.30	108.00
4	L	477	U	O3'-P-O5'	-10.56	88.16	104.00
4	L	668	U	OP1-P-O3'	10.55	139.66	108.00
4	L	567	U	O3'-P-O5'	10.55	119.82	104.00
4	L	655	U	P-O3'-C3'	-10.54	104.38	120.20
3	K	130	A	P-O3'-C3'	-10.54	104.39	120.20
5	M	459	U	O3'-P-O5'	-10.54	88.19	104.00
4	L	802	U	O3'-P-O5'	-10.53	88.21	104.00
3	K	109	A	OP2-P-O3'	10.52	139.57	108.00
1	I	212	A	P-O3'-C3'	-10.52	104.42	120.20
1	I	249	A	OP2-P-O3'	10.52	139.56	108.00
2	J	226	A	OP2-P-O3'	-10.52	76.43	108.00
3	K	57	A	O3'-P-O5'	-10.52	88.22	104.00
4	L	822	U	OP2-P-O3'	-10.52	76.43	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	207	A	OP2-P-O3'	10.52	139.55	108.00
3	K	101	A	OP2-P-O3'	10.52	139.55	108.00
3	K	30	A	OP2-P-O3'	-10.51	76.46	108.00
6	N	384	U	OP2-P-O3'	-10.51	76.47	108.00
2	J	78	A	P-O3'-C3'	-10.51	104.44	120.20
5	M	368	U	OP2-P-O3'	10.51	139.52	108.00
2	J	208	A	P-O3'-C3'	-10.50	104.44	120.20
1	I	101	A	P-O3'-C3'	10.50	135.95	120.20
2	J	90	A	OP2-P-O3'	10.50	139.49	108.00
4	L	503	U	P-O3'-C3'	-10.49	104.47	120.20
1	I	306	A	O3'-P-O5'	10.48	119.73	104.00
6	N	454	U	P-O3'-C3'	-10.48	104.48	120.20
1	I	281	A	O3'-P-O5'	-10.47	88.29	104.00
1	I	242	A	OP2-P-O3'	10.47	139.41	108.00
3	K	229	A	O3'-P-O5'	-10.47	88.29	104.00
2	J	4	A	OP2-P-O3'	-10.47	76.59	108.00
1	I	98	A	O3'-P-O5'	10.46	119.70	104.00
5	M	330	U	P-O3'-C3'	-10.46	104.50	120.20
4	L	626	U	O3'-P-O5'	10.46	119.69	104.00
5	M	312	U	O3'-P-O5'	10.46	119.69	104.00
2	J	117	A	OP2-P-O3'	-10.45	76.64	108.00
5	M	495	U	OP1-P-O3'	-10.45	76.65	108.00
1	I	222	A	OP2-P-O3'	10.45	139.34	108.00
3	K	140	A	P-O3'-C3'	-10.44	104.54	120.20
5	M	471	U	O3'-P-O5'	10.44	119.65	104.00
5	M	335	U	OP2-P-O3'	10.43	139.30	108.00
1	I	27	A	P-O3'-C3'	-10.43	104.56	120.20
2	J	179	A	P-O3'-C3'	-10.40	104.60	120.20
3	K	110	A	P-O3'-C3'	-10.40	104.60	120.20
1	I	353	A	O3'-P-O5'	-10.40	88.41	104.00
2	J	238	A	O3'-P-O5'	10.40	119.59	104.00
1	I	172	A	O3'-P-O5'	10.39	119.59	104.00
6	N	495	U	OP2-P-O3'	-10.39	76.82	108.00
3	K	225	A	OP1-P-O3'	10.38	139.16	108.00
4	L	654	U	O3'-P-O5'	10.38	119.58	104.00
1	I	262	A	OP2-P-O3'	10.38	139.14	108.00
4	L	578	U	P-O3'-C3'	-10.38	104.64	120.20
5	M	522	U	OP2-P-O3'	10.37	139.12	108.00
4	L	749	U	O3'-P-O5'	10.37	119.56	104.00
6	N	351	U	P-O3'-C3'	-10.37	104.64	120.20
1	I	72	A	O3'-P-O5'	-10.37	88.45	104.00
1	I	268	A	OP1-P-O3'	-10.37	76.90	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	299	U	O3'-P-O5'	10.37	119.55	104.00
1	I	291	A	OP2-P-O3'	10.36	139.08	108.00
5	M	478	U	OP2-P-O3'	-10.36	76.94	108.00
5	M	499	U	P-O3'-C3'	-10.35	104.67	120.20
4	L	572	U	O3'-P-O5'	10.35	119.52	104.00
4	L	664	U	O3'-P-O5'	10.35	119.52	104.00
5	M	420	U	P-O3'-C3'	-10.34	104.69	120.20
1	I	2	A	OP2-P-O3'	-10.34	76.99	108.00
1	I	330	A	OP2-P-O3'	10.33	139.00	108.00
4	L	634	U	O3'-P-O5'	-10.33	88.50	104.00
4	L	482	U	O3'-P-O5'	10.33	119.49	104.00
3	K	145	A	OP2-P-O3'	-10.33	77.02	108.00
6	N	382	U	OP2-P-O3'	-10.33	77.02	108.00
6	N	435	U	OP2-P-O3'	-10.32	77.03	108.00
1	I	158	A	O3'-P-O5'	10.32	119.48	104.00
1	I	176	A	OP2-P-O3'	-10.32	77.04	108.00
4	L	593	U	O3'-P-O5'	-10.31	88.53	104.00
1	I	371	A	P-O3'-C3'	-10.31	104.74	120.20
2	J	205	A	OP1-P-O3'	-10.31	77.08	108.00
4	L	755	U	OP2-P-O3'	10.31	138.92	108.00
1	I	68	A	OP1-P-O3'	-10.30	77.09	108.00
4	L	566	U	O3'-P-O5'	10.30	119.45	104.00
1	I	102	A	P-O3'-C3'	10.30	135.65	120.20
3	K	137	A	P-O3'-C3'	-10.30	104.75	120.20
5	M	319	U	OP1-P-O3'	-10.30	77.10	108.00
4	L	611	U	OP2-P-O3'	10.28	138.84	108.00
3	K	145	A	P-O3'-C3'	10.28	135.62	120.20
6	N	442	U	OP1-P-O3'	-10.28	77.17	108.00
1	I	22	A	O3'-P-O5'	-10.28	88.59	104.00
2	J	144	A	OP1-P-O3'	-10.28	77.17	108.00
1	I	261	A	OP2-P-O3'	10.27	138.80	108.00
1	I	195	A	O3'-P-O5'	10.27	119.40	104.00
3	K	99	A	OP1-P-O3'	-10.26	77.21	108.00
4	L	820	U	O3'-P-O5'	-10.26	88.61	104.00
1	I	313	A	P-O3'-C3'	-10.25	104.82	120.20
2	J	211	A	OP2-P-O3'	10.24	138.73	108.00
5	M	310	U	OP2-P-O3'	10.24	138.71	108.00
4	L	780	U	OP1-P-O3'	-10.23	77.31	108.00
4	L	798	U	O3'-P-O5'	10.22	119.34	104.00
4	L	734	U	OP2-P-O3'	10.22	138.66	108.00
6	N	359	U	P-O3'-C3'	-10.22	104.87	120.20
1	I	67	A	OP2-P-O3'	10.22	138.65	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	732	U	P-O3'-C3'	-10.22	104.88	120.20
4	L	763	U	OP2-P-O3'	10.22	138.65	108.00
1	I	234	A	O3'-P-O5'	10.21	119.32	104.00
6	N	371	U	P-O3'-C3'	-10.21	104.89	120.20
1	I	248	A	P-O3'-C3'	-10.21	104.89	120.20
5	M	548	U	O3'-P-O5'	10.21	119.31	104.00
4	L	488	U	OP2-P-O3'	10.20	138.61	108.00
4	L	723	U	OP2-P-O3'	10.20	138.61	108.00
1	I	219	A	OP2-P-O3'	-10.20	77.41	108.00
2	J	37	A	OP1-P-O3'	-10.20	77.41	108.00
4	L	537	U	OP2-P-O3'	10.19	138.57	108.00
1	I	197	A	P-O3'-C3'	-10.18	104.93	120.20
4	L	642	U	OP1-P-O3'	-10.18	77.46	108.00
4	L	748	U	P-O3'-C3'	-10.18	104.93	120.20
5	M	405	U	OP2-P-O3'	10.18	138.54	108.00
4	L	585	U	P-O3'-C3'	-10.18	104.94	120.20
1	I	25	A	P-O3'-C3'	-10.17	104.94	120.20
1	I	362	A	P-O3'-C3'	-10.17	104.94	120.20
4	L	622	U	P-O3'-C3'	-10.17	104.94	120.20
4	L	525	U	OP2-P-O3'	10.17	138.50	108.00
2	J	48	A	OP2-P-O3'	10.16	138.49	108.00
4	L	418	U	OP2-P-O3'	-10.16	77.52	108.00
2	J	260	A	P-O3'-C3'	-10.16	104.97	120.20
5	M	494	U	P-O3'-C3'	-10.15	104.97	120.20
1	I	298	A	O3'-P-O5'	-10.14	88.78	104.00
4	L	489	U	O3'-P-O5'	-10.14	88.78	104.00
4	L	656	U	O3'-P-O5'	10.14	119.22	104.00
1	I	278	A	OP2-P-O3'	10.14	138.43	108.00
5	M	504	U	OP2-P-O3'	10.14	138.43	108.00
6	N	448	U	OP2-P-O3'	10.14	138.41	108.00
5	M	495	U	O3'-P-O5'	10.13	119.20	104.00
1	I	136	A	OP2-P-O3'	10.13	138.40	108.00
5	M	366	U	O3'-P-O5'	10.13	119.20	104.00
5	M	430	U	O3'-P-O5'	-10.13	88.80	104.00
6	N	277	U	OP2-P-O3'	10.12	138.36	108.00
6	N	404	U	P-O3'-C3'	-10.12	105.02	120.20
2	J	30	A	O3'-P-O5'	-10.12	88.83	104.00
4	L	695	U	OP1-P-O3'	-10.11	77.66	108.00
5	M	482	U	P-O3'-C3'	-10.11	105.03	120.20
3	K	233	A	O3'-P-O5'	10.11	119.17	104.00
4	L	788	U	P-O3'-C3'	-10.10	105.05	120.20
6	N	395	U	P-O3'-C3'	-10.09	105.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	39	A	P-O3'-C3'	-10.09	105.07	120.20
2	J	127	A	O3'-P-O5'	10.09	119.13	104.00
3	K	61	A	OP2-P-O3'	-10.09	77.74	108.00
5	M	505	U	O3'-P-O5'	10.09	119.13	104.00
1	I	217	A	O3'-P-O5'	10.07	119.11	104.00
4	L	737	U	P-O3'-C3'	-10.07	105.09	120.20
6	N	338	U	OP1-P-O3'	10.07	138.22	108.00
1	I	170	A	OP2-P-O3'	-10.07	77.79	108.00
2	J	265	A	OP2-P-O3'	-10.07	77.80	108.00
3	K	91	A	O3'-P-O5'	-10.07	88.90	104.00
4	L	768	U	O3'-P-O5'	10.07	119.10	104.00
6	N	294	U	O3'-P-O5'	-10.06	88.91	104.00
3	K	159	A	P-O3'-C3'	-10.05	105.12	120.20
6	N	410	U	OP2-P-O3'	-10.05	77.85	108.00
4	L	484	U	O3'-P-O5'	-10.04	88.94	104.00
2	J	63	A	OP2-P-O3'	10.04	138.12	108.00
5	M	439	U	P-O3'-C3'	-10.03	105.15	120.20
1	I	91	A	OP1-P-O3'	-10.03	77.92	108.00
2	J	91	A	O3'-P-O5'	10.03	119.04	104.00
4	L	808	U	P-O3'-C3'	-10.03	105.16	120.20
5	M	333	U	OP2-P-O3'	10.02	138.07	108.00
5	M	288	U	OP2-P-O3'	10.02	138.06	108.00
1	I	29	A	O3'-P-O5'	10.01	119.02	104.00
4	L	597	U	P-O3'-C3'	-10.01	105.18	120.20
6	N	431	U	OP1-P-O3'	-10.01	77.97	108.00
2	J	254	A	OP2-P-O3'	10.01	138.02	108.00
1	I	63	A	P-O3'-C3'	-10.00	105.19	120.20
6	N	414	U	O3'-P-O5'	10.00	119.00	104.00
4	L	496	U	OP2-P-O3'	10.00	137.99	108.00
4	L	779	U	OP1-P-O3'	-9.99	78.03	108.00
4	L	494	U	P-O3'-C3'	-9.99	105.22	120.20
3	K	218	A	O3'-P-O5'	-9.98	89.03	104.00
3	K	209	A	OP1-P-O3'	9.97	137.93	108.00
4	L	690	U	O3'-P-O5'	9.97	118.96	104.00
5	M	360	U	P-O3'-C3'	-9.96	105.27	120.20
2	J	223	A	OP2-P-O3'	9.95	137.85	108.00
4	L	662	U	O3'-P-O5'	9.95	118.92	104.00
4	L	518	U	OP1-P-O3'	-9.94	78.17	108.00
6	N	382	U	O3'-P-O5'	9.94	118.91	104.00
3	K	101	A	O3'-P-O5'	-9.94	89.09	104.00
1	I	369	A	O3'-P-O5'	9.94	118.91	104.00
4	L	544	U	OP2-P-O3'	9.94	137.81	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	431	U	O3'-P-O5'	-9.94	89.10	104.00
3	K	132	A	P-O3'-C3'	-9.93	105.30	120.20
1	I	191	A	OP2-P-O3'	9.92	137.77	108.00
1	I	137	A	OP2-P-O3'	9.91	137.74	108.00
1	I	336	A	O3'-P-O5'	-9.91	89.13	104.00
1	I	204	A	OP2-P-O3'	-9.91	78.28	108.00
3	K	25	A	OP2-P-O3'	-9.91	78.28	108.00
4	L	510	U	OP2-P-O3'	9.90	137.71	108.00
3	K	177	A	O3'-P-O5'	-9.90	89.15	104.00
4	L	693	U	O3'-P-O5'	-9.89	89.16	104.00
1	I	180	A	OP1-P-O3'	-9.89	78.33	108.00
4	L	519	U	O3'-P-O5'	9.88	118.82	104.00
2	J	181	A	OP2-P-O3'	-9.87	78.40	108.00
5	M	462	U	O3'-P-O5'	-9.87	89.20	104.00
1	I	258	A	OP1-P-O3'	-9.86	78.41	108.00
3	K	62	A	P-O3'-C3'	-9.86	105.41	120.20
2	J	27	A	P-O3'-C3'	-9.86	105.41	120.20
3	K	16	A	O3'-P-O5'	9.86	118.79	104.00
2	J	79	A	OP2-P-O3'	9.85	137.56	108.00
4	L	484	U	OP2-P-O3'	9.85	137.56	108.00
5	M	514	U	O3'-P-O5'	9.85	118.78	104.00
1	I	315	A	OP2-P-O3'	9.85	137.55	108.00
6	N	415	U	OP1-P-O3'	9.85	137.56	108.00
2	J	168	A	P-O3'-C3'	9.85	134.97	120.20
6	N	440	U	OP1-P-O3'	-9.85	78.46	108.00
1	I	227	A	P-O3'-C3'	-9.84	105.44	120.20
2	J	56	A	OP2-P-O3'	9.84	137.51	108.00
1	I	10	A	OP2-P-O3'	-9.83	78.50	108.00
2	J	128	A	OP2-P-O3'	9.83	137.50	108.00
1	I	248	A	O3'-P-O5'	9.83	118.74	104.00
4	L	467	U	P-O3'-C3'	-9.82	105.46	120.20
4	L	458	U	P-O3'-C3'	-9.82	105.47	120.20
4	L	521	U	OP1-P-O3'	-9.82	78.53	108.00
1	I	51	A	O3'-P-O5'	9.82	118.73	104.00
4	L	725	U	O3'-P-O5'	-9.82	89.27	104.00
2	J	212	A	O3'-P-O5'	9.81	118.72	104.00
2	J	34	A	OP2-P-O3'	-9.81	78.56	108.00
1	I	86	A	O3'-P-O5'	-9.81	89.29	104.00
3	K	104	A	OP2-P-O3'	9.81	137.43	108.00
5	M	285	U	P-O3'-C3'	-9.81	105.49	120.20
1	I	186	A	P-O3'-C3'	-9.80	105.49	120.20
3	K	143	A	O3'-P-O5'	-9.81	89.29	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	19	A	OP2-P-O3'	9.80	137.40	108.00
2	J	258	A	O3'-P-O5'	-9.80	89.30	104.00
1	I	117	A	O3'-P-O5'	9.80	118.70	104.00
5	M	438	U	OP2-P-O3'	9.79	137.38	108.00
1	I	353	A	P-O3'-C3'	-9.79	105.51	120.20
3	K	104	A	P-O3'-C3'	-9.79	105.51	120.20
4	L	807	U	OP2-P-O3'	9.79	137.38	108.00
6	N	326	U	OP1-P-O3'	9.79	137.37	108.00
4	L	808	U	O3'-P-O5'	9.79	118.68	104.00
1	I	165	A	P-O3'-C3'	-9.77	105.54	120.20
1	I	188	A	P-O3'-C3'	-9.77	105.54	120.20
3	K	46	A	OP2-P-O3'	9.77	137.31	108.00
4	L	820	U	OP1-P-O3'	9.77	137.30	108.00
1	I	235	A	P-O3'-C3'	-9.76	105.56	120.20
2	J	199	A	P-O3'-C3'	-9.76	105.57	120.20
3	K	81	A	OP2-P-O3'	9.75	137.26	108.00
1	I	81	A	P-O3'-C3'	-9.75	105.58	120.20
3	K	180	A	O3'-P-O5'	9.73	118.59	104.00
2	J	76	A	O3'-P-O5'	9.71	118.57	104.00
3	K	216	A	O3'-P-O5'	-9.71	89.44	104.00
1	I	127	A	OP2-P-O3'	9.70	137.11	108.00
4	L	441	U	O3'-P-O5'	9.70	118.55	104.00
4	L	592	U	P-O3'-C3'	-9.70	105.66	120.20
6	N	365	U	OP2-P-O3'	-9.70	78.91	108.00
2	J	41	A	P-O3'-C3'	9.69	134.74	120.20
4	L	566	U	OP1-P-O3'	-9.69	78.92	108.00
1	I	26	A	O3'-P-O5'	-9.69	89.46	104.00
6	N	308	U	O3'-P-O5'	9.69	118.53	104.00
1	I	119	A	O3'-P-O5'	9.68	118.52	104.00
2	J	4	A	P-O3'-C3'	9.68	134.72	120.20
2	J	42	A	OP2-P-O3'	9.68	137.04	108.00
4	L	793	U	P-O3'-C3'	-9.68	105.69	120.20
1	I	286	A	OP2-P-O3'	9.65	136.96	108.00
5	M	487	U	P-O3'-C3'	-9.65	105.72	120.20
5	M	532	U	P-O3'-C3'	-9.65	105.73	120.20
6	N	528	U	P-O3'-C3'	-9.65	105.73	120.20
5	M	458	U	OP1-P-O3'	-9.64	79.06	108.00
5	M	473	U	P-O3'-C3'	-9.64	105.73	120.20
1	I	189	A	OP2-P-O3'	9.64	136.91	108.00
4	L	500	U	OP1-P-O3'	-9.62	79.14	108.00
6	N	410	U	P-O3'-C3'	-9.62	105.77	120.20
1	I	254	A	P-O3'-C3'	-9.61	105.78	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	250	A	OP1-P-O3'	-9.61	79.17	108.00
4	L	465	U	OP2-P-O3'	-9.61	79.18	108.00
4	L	649	U	OP2-P-O3'	9.61	136.82	108.00
4	L	579	U	O3'-P-O5'	9.61	118.41	104.00
1	I	12	A	OP2-P-O3'	9.59	136.77	108.00
3	K	81	A	P-O3'-C3'	-9.59	105.82	120.20
5	M	465	U	OP1-P-O3'	-9.59	79.23	108.00
2	J	85	A	OP2-P-O3'	-9.59	79.25	108.00
1	I	69	A	OP2-P-O3'	9.58	136.73	108.00
5	M	421	U	O3'-P-O5'	-9.57	89.64	104.00
6	N	394	U	P-O3'-C3'	-9.57	105.84	120.20
4	L	746	U	P-O3'-C3'	-9.57	105.84	120.20
6	N	406	U	OP2-P-O3'	9.57	136.71	108.00
1	I	190	A	P-O3'-C3'	-9.57	105.85	120.20
4	L	585	U	OP2-P-O3'	9.56	136.68	108.00
5	M	510	U	OP2-P-O3'	9.56	136.67	108.00
4	L	635	U	OP2-P-O3'	9.56	136.67	108.00
5	M	365	U	O3'-P-O5'	9.55	118.33	104.00
4	L	415	U	O3'-P-O5'	-9.55	89.67	104.00
5	M	485	U	OP1-P-O3'	-9.55	79.35	108.00
3	K	95	A	P-O3'-C3'	-9.55	105.88	120.20
4	L	775	U	OP1-P-O3'	-9.54	79.37	108.00
1	I	171	A	OP2-P-O3'	-9.54	79.38	108.00
1	I	274	A	P-O3'-C3'	-9.54	105.89	120.20
3	K	94	A	P-O3'-C3'	-9.53	105.91	120.20
4	L	477	U	OP1-P-O3'	-9.53	79.41	108.00
1	I	102	A	OP1-P-O3'	9.52	136.57	108.00
2	J	219	A	OP1-P-O3'	-9.51	79.46	108.00
3	K	165	A	OP1-P-O3'	-9.51	79.47	108.00
1	I	163	A	O3'-P-O5'	9.51	118.26	104.00
3	K	152	A	P-O3'-C3'	-9.50	105.95	120.20
3	K	178	A	O3'-P-O5'	-9.50	89.75	104.00
5	M	373	U	OP1-P-O3'	-9.50	79.51	108.00
5	M	499	U	O3'-P-O5'	9.50	118.24	104.00
6	N	499	U	OP2-P-O3'	-9.49	79.51	108.00
1	I	220	A	OP2-P-O3'	-9.49	79.53	108.00
3	K	50	A	O3'-P-O5'	9.49	118.24	104.00
1	I	223	A	P-O3'-C3'	-9.49	105.97	120.20
2	J	151	A	OP2-P-O3'	9.48	136.46	108.00
4	L	628	U	OP2-P-O3'	-9.48	79.56	108.00
1	I	249	A	OP1-P-O3'	-9.47	79.58	108.00
4	L	686	U	O3'-P-O5'	9.47	118.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	149	A	P-O3'-C3'	-9.46	106.01	120.20
5	M	305	U	OP2-P-O3'	-9.46	79.62	108.00
1	I	272	A	O3'-P-O5'	-9.46	89.81	104.00
3	K	245	A	O3'-P-O5'	9.46	118.19	104.00
4	L	547	U	P-O3'-C3'	-9.46	106.01	120.20
4	L	463	U	O3'-P-O5'	-9.46	89.82	104.00
3	K	98	A	OP2-P-O3'	9.45	136.35	108.00
4	L	507	U	O3'-P-O5'	-9.45	89.82	104.00
4	L	815	U	OP1-P-O3'	-9.45	79.64	108.00
2	J	84	A	OP2-P-O3'	9.45	136.35	108.00
5	M	344	U	P-O3'-C3'	-9.45	106.03	120.20
1	I	357	A	P-O3'-C3'	-9.45	106.03	120.20
5	M	455	U	OP2-P-O3'	9.45	136.34	108.00
2	J	49	A	OP2-P-O3'	-9.44	79.67	108.00
3	K	122	A	OP2-P-O3'	-9.44	79.68	108.00
1	I	100	A	OP2-P-O3'	9.44	136.31	108.00
2	J	200	A	OP2-P-O3'	-9.43	79.71	108.00
3	K	56	A	O3'-P-O5'	-9.43	89.85	104.00
4	L	518	U	O3'-P-O5'	9.42	118.13	104.00
5	M	322	U	P-O3'-C3'	-9.42	106.07	120.20
6	N	413	U	P-O3'-C3'	-9.42	106.06	120.20
5	M	347	U	OP1-P-O3'	-9.42	79.74	108.00
3	K	175	A	P-O3'-C3'	-9.42	106.07	120.20
4	L	740	U	O3'-P-O5'	-9.42	89.88	104.00
4	L	648	U	P-O3'-C3'	-9.41	106.09	120.20
4	L	529	U	P-O3'-C3'	-9.41	106.09	120.20
5	M	290	U	P-O3'-C3'	-9.40	106.09	120.20
2	J	142	A	P-O3'-C3'	-9.40	106.10	120.20
2	J	230	A	OP2-P-O3'	9.40	136.20	108.00
3	K	212	A	P-O3'-C3'	-9.39	106.11	120.20
2	J	212	A	P-O3'-C3'	-9.39	106.12	120.20
2	J	271	A	O3'-P-O5'	9.39	118.08	104.00
5	M	530	U	OP1-P-O3'	-9.39	79.83	108.00
4	L	717	U	OP1-P-O3'	9.39	136.16	108.00
2	J	43	A	OP1-P-O3'	-9.38	79.85	108.00
6	N	401	U	OP2-P-O3'	9.38	136.14	108.00
2	J	180	A	OP2-P-O3'	-9.38	79.87	108.00
1	I	260	A	OP2-P-O3'	9.38	136.13	108.00
6	N	325	U	O3'-P-O5'	-9.38	89.94	104.00
1	I	232	A	OP1-P-O3'	-9.37	79.88	108.00
4	L	558	U	O3'-P-O5'	9.37	118.06	104.00
2	J	182	A	OP2-P-O3'	9.37	136.11	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	747	U	O3'-P-O5'	-9.37	89.94	104.00
2	J	234	A	P-O3'-C3'	-9.36	106.16	120.20
5	M	518	U	OP2-P-O3'	-9.36	79.92	108.00
2	J	263	A	O3'-P-O5'	-9.36	89.96	104.00
3	K	237	A	OP1-P-O3'	9.36	136.07	108.00
4	L	622	U	OP2-P-O3'	9.35	136.06	108.00
4	L	817	U	O3'-P-O5'	9.35	118.03	104.00
1	I	124	A	P-O3'-C3'	-9.35	106.18	120.20
1	I	176	A	O3'-P-O5'	9.35	118.02	104.00
1	I	361	A	O3'-P-O5'	-9.35	89.98	104.00
1	I	401	A	O3'-P-O5'	-9.35	89.98	104.00
1	I	291	A	O3'-P-O5'	-9.34	89.98	104.00
6	N	414	U	OP2-P-O3'	-9.34	79.97	108.00
6	N	422	U	O3'-P-O5'	-9.34	89.99	104.00
2	J	79	A	OP1-P-O3'	-9.34	79.99	108.00
4	L	698	U	OP2-P-O3'	9.34	136.01	108.00
5	M	290	U	OP2-P-O3'	9.34	136.01	108.00
6	N	373	U	O3'-P-O5'	9.34	118.01	104.00
3	K	32	A	P-O3'-C3'	-9.32	106.22	120.20
4	L	769	U	OP1-P-O3'	-9.32	80.04	108.00
5	M	320	U	OP2-P-O3'	9.32	135.95	108.00
2	J	190	A	P-O3'-C3'	-9.31	106.23	120.20
4	L	784	U	O3'-P-O5'	9.31	117.97	104.00
1	I	229	A	OP2-P-O3'	9.30	135.90	108.00
6	N	381	U	OP2-P-O3'	-9.30	80.10	108.00
3	K	224	A	O3'-P-O5'	-9.30	90.05	104.00
6	N	390	U	OP2-P-O3'	-9.29	80.11	108.00
4	L	419	U	P-O3'-C3'	9.29	134.13	120.20
6	N	494	U	OP2-P-O3'	-9.29	80.13	108.00
4	L	420	U	OP1-P-O3'	9.29	135.87	108.00
6	N	277	U	OP1-P-O3'	-9.28	80.15	108.00
1	I	17	A	OP1-P-O3'	-9.28	80.15	108.00
6	N	476	U	OP2-P-O3'	9.28	135.83	108.00
1	I	182	A	O3'-P-O5'	9.27	117.91	104.00
3	K	168	A	OP1-P-O3'	-9.27	80.19	108.00
4	L	534	U	O3'-P-O5'	-9.26	90.11	104.00
5	M	324	U	OP2-P-O3'	9.26	135.77	108.00
5	M	345	U	P-O3'-C3'	-9.26	106.32	120.20
3	K	237	A	P-O3'-C3'	9.25	134.08	120.20
4	L	704	U	OP1-P-O3'	-9.25	80.25	108.00
4	L	797	U	P-O3'-C3'	-9.25	106.33	120.20
4	L	674	U	O3'-P-O5'	-9.24	90.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	127	A	P-O3'-C3'	-9.24	106.34	120.20
5	M	399	U	P-O3'-C3'	-9.22	106.36	120.20
2	J	251	A	P-O3'-C3'	-9.22	106.37	120.20
4	L	460	U	P-O3'-C3'	-9.22	106.38	120.20
2	J	204	A	OP2-P-O3'	9.21	135.64	108.00
1	I	257	A	OP1-P-O3'	-9.21	80.37	108.00
3	K	102	A	OP2-P-O3'	-9.21	80.39	108.00
5	M	537	U	OP2-P-O3'	9.21	135.62	108.00
6	N	280	U	OP1-P-O3'	-9.20	80.40	108.00
6	N	400	U	OP2-P-O3'	9.20	135.59	108.00
3	K	116	A	P-O3'-C3'	-9.20	106.41	120.20
6	N	369	U	P-O3'-C3'	-9.19	106.41	120.20
2	J	69	A	OP1-P-O3'	-9.19	80.42	108.00
5	M	371	U	OP2-P-O3'	9.19	135.55	108.00
2	J	139	A	P-O3'-C3'	-9.18	106.43	120.20
5	M	500	U	OP2-P-O3'	-9.18	80.47	108.00
6	N	375	U	P-O3'-C3'	-9.17	106.44	120.20
1	I	293	A	O3'-P-O5'	9.17	117.75	104.00
1	I	143	A	OP1-P-O3'	9.16	135.50	108.00
4	L	430	U	O3'-P-O5'	-9.16	90.26	104.00
6	N	402	U	O3'-P-O5'	-9.16	90.26	104.00
3	K	45	A	OP2-P-O3'	9.16	135.47	108.00
3	K	92	A	OP2-P-O3'	9.16	135.47	108.00
1	I	96	A	O3'-P-O5'	-9.14	90.28	104.00
2	J	242	A	OP2-P-O3'	-9.14	80.56	108.00
5	M	477	U	P-O3'-C3'	-9.14	106.48	120.20
6	N	495	U	P-O3'-C3'	9.14	133.91	120.20
3	K	252	A	O3'-P-O5'	9.14	117.71	104.00
4	L	475	U	O3'-P-O5'	9.14	117.70	104.00
6	N	368	U	P-O3'-C3'	-9.13	106.50	120.20
3	K	78	A	O3'-P-O5'	-9.13	90.30	104.00
1	I	254	A	OP2-P-O3'	9.13	135.39	108.00
1	I	299	A	P-O3'-C3'	-9.13	106.51	120.20
6	N	445	U	OP2-P-O3'	-9.12	80.63	108.00
4	L	538	U	P-O3'-C3'	-9.12	106.52	120.20
4	L	794	U	O3'-P-O5'	9.12	117.68	104.00
6	N	393	U	OP2-P-O3'	-9.11	80.66	108.00
6	N	433	U	O3'-P-O5'	9.11	117.67	104.00
4	L	610	U	P-O3'-C3'	-9.11	106.54	120.20
3	K	248	A	OP2-P-O3'	-9.10	80.70	108.00
4	L	632	U	OP2-P-O3'	-9.10	80.70	108.00
1	I	75	A	OP1-P-O3'	-9.09	80.75	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	531	U	OP1-P-O3'	-9.09	80.74	108.00
3	K	123	A	O3'-P-O5'	9.08	117.62	104.00
1	I	290	A	O3'-P-O5'	-9.07	90.40	104.00
2	J	114	A	O3'-P-O5'	9.06	117.60	104.00
3	K	243	A	O3'-P-O5'	9.06	117.60	104.00
5	M	521	U	P-O3'-C3'	-9.06	106.60	120.20
3	K	12	A	OP2-P-O3'	-9.06	80.82	108.00
6	N	486	U	P-O3'-C3'	-9.06	106.61	120.20
1	I	94	A	O3'-P-O5'	9.06	117.59	104.00
5	M	295	U	OP2-P-O3'	9.06	135.18	108.00
2	J	17	A	O3'-P-O5'	-9.05	90.42	104.00
4	L	751	U	P-O3'-C3'	-9.05	106.62	120.20
3	K	74	A	OP2-P-O3'	9.05	135.14	108.00
3	K	169	A	OP2-P-O3'	9.04	135.13	108.00
4	L	715	U	OP1-P-O3'	9.04	135.13	108.00
1	I	142	A	P-O3'-C3'	9.04	133.76	120.20
1	I	253	A	P-O3'-C3'	-9.03	106.65	120.20
6	N	491	U	P-O3'-C3'	-9.03	106.66	120.20
4	L	644	U	OP1-P-O3'	-9.03	80.92	108.00
5	M	385	U	O3'-P-O5'	9.03	117.54	104.00
2	J	41	A	O3'-P-O5'	9.02	117.53	104.00
6	N	333	U	OP2-P-O3'	9.02	135.07	108.00
3	K	208	A	OP1-P-O3'	9.02	135.06	108.00
2	J	94	A	OP2-P-O3'	9.02	135.05	108.00
4	L	703	U	P-O3'-C3'	-9.02	106.68	120.20
6	N	425	U	OP2-P-O3'	9.01	135.04	108.00
5	M	286	U	P-O3'-C3'	-9.01	106.69	120.20
1	I	152	A	P-O3'-C3'	-9.01	106.69	120.20
1	I	16	A	OP2-P-O3'	9.01	135.01	108.00
2	J	24	A	OP2-P-O3'	-9.01	80.99	108.00
5	M	408	U	OP1-P-O3'	-9.00	81.00	108.00
1	I	391	A	OP2-P-O3'	-9.00	81.01	108.00
3	K	180	A	P-O3'-C3'	9.00	133.69	120.20
4	L	741	U	OP2-P-O3'	-9.00	81.01	108.00
1	I	348	A	OP2-P-O3'	8.99	134.98	108.00
5	M	519	U	OP2-P-O3'	8.99	134.97	108.00
1	I	381	A	O3'-P-O5'	8.98	117.48	104.00
1	I	20	A	P-O3'-C3'	-8.98	106.73	120.20
5	M	519	U	O3'-P-O5'	-8.98	90.53	104.00
6	N	272	U	OP2-P-O3'	-8.98	81.06	108.00
3	K	165	A	O3'-P-O5'	-8.98	90.54	104.00
5	M	505	U	OP1-P-O3'	-8.97	81.10	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	451	U	O3'-P-O5'	8.95	117.42	104.00
2	J	112	A	O3'-P-O5'	8.95	117.42	104.00
1	I	372	A	P-O3'-C3'	-8.94	106.79	120.20
3	K	220	A	P-O3'-C3'	8.94	133.61	120.20
4	L	813	U	O3'-P-O5'	-8.94	90.59	104.00
1	I	147	A	OP2-P-O3'	8.93	134.80	108.00
2	J	209	A	OP2-P-O3'	8.93	134.79	108.00
4	L	595	U	OP2-P-O3'	8.92	134.75	108.00
5	M	524	U	P-O3'-C3'	-8.91	106.83	120.20
1	I	155	A	O3'-P-O5'	8.91	117.36	104.00
1	I	216	A	P-O3'-C3'	-8.91	106.84	120.20
1	I	327	A	P-O3'-C3'	-8.91	106.84	120.20
4	L	740	U	OP2-P-O3'	8.90	134.71	108.00
3	K	230	A	O3'-P-O5'	-8.90	90.65	104.00
2	J	161	A	P-O3'-C3'	-8.90	106.85	120.20
2	J	231	A	P-O3'-C3'	-8.90	106.86	120.20
6	N	373	U	OP2-P-O3'	-8.89	81.32	108.00
3	K	142	A	O3'-P-O5'	8.89	117.33	104.00
1	I	77	A	O3'-P-O5'	-8.88	90.68	104.00
3	K	211	A	P-O3'-C3'	8.88	133.52	120.20
2	J	257	A	OP2-P-O3'	8.88	134.63	108.00
4	L	747	U	OP2-P-O3'	8.87	134.62	108.00
3	K	160	A	O3'-P-O5'	-8.87	90.70	104.00
5	M	392	U	P-O3'-C3'	-8.87	106.90	120.20
4	L	732	U	O3'-P-O5'	8.86	117.29	104.00
2	J	32	A	O3'-P-O5'	-8.86	90.71	104.00
3	K	31	A	P-O3'-C3'	-8.86	106.91	120.20
1	I	202	A	P-O3'-C3'	-8.85	106.93	120.20
3	K	87	A	OP1-P-O3'	-8.85	81.45	108.00
1	I	87	A	OP1-P-O3'	-8.85	81.47	108.00
1	I	109	A	OP1-P-O3'	8.85	134.54	108.00
1	I	400	A	OP1-P-O3'	8.84	134.51	108.00
5	M	358	U	P-O3'-C3'	-8.84	106.95	120.20
5	M	483	U	OP2-P-O3'	8.83	134.50	108.00
5	M	536	U	OP2-P-O3'	8.83	134.50	108.00
2	J	140	A	P-O3'-C3'	-8.83	106.96	120.20
6	N	441	U	P-O3'-C3'	-8.82	106.96	120.20
2	J	123	A	OP2-P-O3'	8.82	134.45	108.00
2	J	202	A	OP1-P-O3'	-8.82	81.55	108.00
4	L	509	U	OP2-P-O3'	8.82	134.45	108.00
1	I	133	A	OP1-P-O3'	-8.81	81.56	108.00
1	I	199	A	P-O3'-C3'	-8.81	106.98	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	184	A	OP1-P-O3'	-8.80	81.59	108.00
4	L	478	U	OP2-P-O3'	8.80	134.41	108.00
4	L	425	U	OP2-P-O3'	8.80	134.39	108.00
1	I	247	A	P-O3'-C3'	-8.79	107.01	120.20
2	J	176	A	OP2-P-O3'	-8.79	81.61	108.00
1	I	315	A	P-O3'-C3'	-8.79	107.01	120.20
4	L	789	U	O3'-P-O5'	8.79	117.19	104.00
1	I	113	A	OP2-P-O3'	8.79	134.37	108.00
3	K	34	A	O3'-P-O5'	-8.79	90.82	104.00
2	J	156	A	O3'-P-O5'	-8.79	90.82	104.00
4	L	548	U	OP2-P-O3'	8.78	134.34	108.00
1	I	233	A	OP1-P-O3'	-8.78	81.68	108.00
2	J	197	A	OP2-P-O3'	-8.77	81.68	108.00
4	L	534	U	P-O3'-C3'	-8.77	107.04	120.20
3	K	111	A	OP2-P-O3'	-8.77	81.70	108.00
4	L	657	U	O3'-P-O5'	8.76	117.15	104.00
2	J	162	A	OP2-P-O3'	-8.76	81.72	108.00
1	I	201	A	P-O3'-C3'	-8.76	107.06	120.20
1	I	335	A	P-O3'-C3'	-8.76	107.07	120.20
4	L	492	U	P-O3'-C3'	-8.76	107.06	120.20
6	N	336	U	O3'-P-O5'	-8.75	90.87	104.00
6	N	300	U	OP2-P-O3'	-8.75	81.76	108.00
6	N	434	U	OP2-P-O3'	8.74	134.23	108.00
1	I	27	A	O3'-P-O5'	8.73	117.10	104.00
2	J	206	A	OP1-P-O3'	-8.73	81.80	108.00
3	K	89	A	P-O3'-C3'	-8.73	107.10	120.20
3	K	232	A	O3'-P-O5'	8.73	117.10	104.00
4	L	435	U	OP2-P-O3'	8.73	134.20	108.00
2	J	32	A	OP2-P-O3'	8.73	134.19	108.00
4	L	424	U	P-O3'-C3'	-8.73	107.10	120.20
2	J	105	A	P-O3'-C3'	-8.73	107.11	120.20
3	K	192	A	OP1-P-O3'	8.73	134.18	108.00
1	I	255	A	O3'-P-O5'	-8.72	90.91	104.00
6	N	273	U	O3'-P-O5'	-8.72	90.92	104.00
4	L	647	U	OP2-P-O3'	8.72	134.16	108.00
1	I	346	A	O3'-P-O5'	8.72	117.08	104.00
5	M	515	U	OP1-P-O3'	-8.72	81.84	108.00
2	J	114	A	P-O3'-C3'	-8.72	107.12	120.20
1	I	45	A	P-O3'-C3'	-8.71	107.13	120.20
3	K	238	A	OP1-P-O3'	8.70	134.11	108.00
2	J	136	A	O3'-P-O5'	8.70	117.05	104.00
3	K	163	A	OP2-P-O3'	8.69	134.06	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	35	A	P-O3'-C3'	-8.68	107.18	120.20
3	K	197	A	O3'-P-O5'	-8.68	90.98	104.00
2	J	80	A	OP2-P-O3'	8.68	134.04	108.00
1	I	42	A	O3'-P-O5'	8.68	117.02	104.00
5	M	456	U	P-O3'-C3'	-8.68	107.18	120.20
3	K	240	A	P-O3'-C3'	-8.68	107.19	120.20
4	L	767	U	O3'-P-O5'	8.68	117.02	104.00
2	J	60	A	OP2-P-O3'	-8.67	82.00	108.00
1	I	288	A	O3'-P-O5'	-8.66	91.01	104.00
1	I	277	A	P-O3'-C3'	-8.66	107.22	120.20
1	I	307	A	P-O3'-C3'	-8.65	107.23	120.20
1	I	32	A	OP2-P-O3'	-8.64	82.06	108.00
6	N	473	U	OP2-P-O3'	8.64	133.93	108.00
3	K	51	A	OP2-P-O3'	-8.64	82.07	108.00
3	K	238	A	O3'-P-O5'	-8.64	91.04	104.00
4	L	425	U	P-O3'-C3'	-8.64	107.24	120.20
1	I	58	A	OP1-P-O3'	8.64	133.91	108.00
1	I	134	A	P-O3'-C3'	-8.64	107.24	120.20
2	J	134	A	O3'-P-O5'	8.64	116.95	104.00
3	K	188	A	O3'-P-O5'	8.64	116.96	104.00
3	K	210	A	O3'-P-O5'	-8.64	91.04	104.00
4	L	478	U	OP1-P-O3'	-8.64	82.09	108.00
1	I	77	A	OP2-P-O3'	8.64	133.91	108.00
4	L	585	U	O3'-P-O5'	-8.63	91.05	104.00
5	M	451	U	P-O3'-C3'	-8.63	107.26	120.20
6	N	439	U	OP2-P-O3'	8.63	133.88	108.00
3	K	39	A	O3'-P-O5'	8.63	116.94	104.00
4	L	603	U	P-O3'-C3'	-8.62	107.27	120.20
5	M	531	U	O3'-P-O5'	-8.62	91.07	104.00
3	K	80	A	P-O3'-C3'	-8.62	107.27	120.20
1	I	242	A	OP1-P-O3'	-8.62	82.15	108.00
5	M	513	U	P-O3'-C3'	-8.61	107.29	120.20
6	N	327	U	OP2-P-O3'	8.61	133.83	108.00
1	I	78	A	P-O3'-C3'	-8.60	107.30	120.20
5	M	447	U	O3'-P-O5'	-8.60	91.10	104.00
5	M	548	U	P-O3'-C3'	8.59	133.09	120.20
1	I	341	A	OP1-P-O3'	-8.59	82.23	108.00
4	L	533	U	OP2-P-O3'	8.59	133.77	108.00
6	N	433	U	OP2-P-O3'	-8.59	82.23	108.00
1	I	259	A	OP2-P-O3'	8.58	133.74	108.00
1	I	330	A	O3'-P-O5'	-8.58	91.13	104.00
5	M	419	U	OP1-P-O3'	-8.58	82.27	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	434	U	P-O3'-C3'	-8.57	107.34	120.20
1	I	154	A	OP2-P-O3'	-8.57	82.29	108.00
1	I	75	A	OP2-P-O3'	8.56	133.69	108.00
2	J	30	A	OP2-P-O3'	8.56	133.68	108.00
4	L	680	U	OP1-P-O3'	8.56	133.67	108.00
1	I	135	A	OP2-P-O3'	8.55	133.66	108.00
1	I	411	A	O3'-P-O5'	8.55	116.83	104.00
6	N	343	U	OP2-P-O3'	-8.55	82.34	108.00
1	I	278	A	P-O3'-C3'	-8.55	107.38	120.20
2	J	82	A	P-O3'-C3'	-8.55	107.38	120.20
3	K	74	A	O3'-P-O5'	-8.55	91.18	104.00
1	I	98	A	OP2-P-O3'	-8.54	82.37	108.00
3	K	215	A	P-O3'-C3'	8.54	133.01	120.20
1	I	290	A	P-O3'-C3'	-8.54	107.40	120.20
4	L	567	U	OP1-P-O3'	-8.53	82.41	108.00
4	L	815	U	OP2-P-O3'	8.53	133.59	108.00
2	J	146	A	P-O3'-C3'	-8.53	107.41	120.20
3	K	10	A	O3'-P-O5'	-8.53	91.21	104.00
1	I	174	A	OP1-P-O3'	-8.52	82.43	108.00
4	L	755	U	OP1-P-O3'	-8.52	82.43	108.00
1	I	86	A	OP2-P-O3'	8.52	133.56	108.00
4	L	542	U	O3'-P-O5'	8.52	116.78	104.00
6	N	321	U	P-O3'-C3'	-8.52	107.42	120.20
4	L	529	U	O3'-P-O5'	8.52	116.78	104.00
3	K	127	A	P-O3'-C3'	-8.51	107.44	120.20
3	K	193	A	O3'-P-O5'	-8.51	91.24	104.00
6	N	427	U	OP2-P-O3'	8.51	133.52	108.00
6	N	298	U	O3'-P-O5'	8.51	116.76	104.00
6	N	499	U	O3'-P-O5'	8.51	116.76	104.00
5	M	365	U	OP1-P-O3'	-8.50	82.50	108.00
3	K	71	A	O3'-P-O5'	8.50	116.75	104.00
4	L	665	U	P-O3'-C3'	-8.49	107.46	120.20
6	N	308	U	OP2-P-O3'	-8.49	82.53	108.00
5	M	397	U	OP2-P-O3'	8.49	133.46	108.00
5	M	503	U	O3'-P-O5'	8.49	116.73	104.00
3	K	140	A	O3'-P-O5'	8.48	116.73	104.00
4	L	495	U	P-O3'-C3'	-8.48	107.48	120.20
5	M	508	U	O3'-P-O5'	8.48	116.72	104.00
2	J	264	A	P-O3'-C3'	-8.48	107.48	120.20
3	K	125	A	P-O3'-C3'	-8.47	107.49	120.20
1	I	338	A	O3'-P-O5'	-8.46	91.30	104.00
4	L	683	U	OP1-P-O3'	8.46	133.40	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	354	A	OP2-P-O3'	8.46	133.38	108.00
1	I	30	A	P-O3'-C3'	-8.46	107.51	120.20
1	I	213	A	OP2-P-O3'	8.46	133.37	108.00
1	I	62	A	O3'-P-O5'	8.46	116.68	104.00
4	L	630	U	P-O3'-C3'	-8.45	107.52	120.20
4	L	574	U	P-O3'-C3'	-8.45	107.53	120.20
1	I	287	A	P-O3'-C3'	-8.44	107.54	120.20
1	I	269	A	OP1-P-O3'	-8.44	82.68	108.00
6	N	281	U	OP1-P-O3'	-8.44	82.68	108.00
1	I	229	A	P-O3'-C3'	-8.44	107.54	120.20
2	J	127	A	OP1-P-O3'	-8.43	82.70	108.00
4	L	579	U	P-O3'-C3'	-8.43	107.56	120.20
3	K	120	A	O3'-P-O5'	-8.42	91.37	104.00
4	L	771	U	O3'-P-O5'	8.42	116.63	104.00
6	N	455	U	OP2-P-O3'	8.42	133.26	108.00
1	I	262	A	OP1-P-O3'	-8.41	82.76	108.00
2	J	224	A	OP1-P-O3'	-8.41	82.76	108.00
4	L	706	U	O3'-P-O5'	-8.41	91.38	104.00
1	I	20	A	OP2-P-O3'	8.41	133.23	108.00
4	L	504	U	OP1-P-O3'	-8.41	82.78	108.00
5	M	518	U	P-O3'-C3'	-8.40	107.60	120.20
6	N	462	U	P-O3'-C3'	-8.40	107.59	120.20
1	I	50	A	P-O3'-C3'	-8.40	107.61	120.20
4	L	493	U	O3'-P-O5'	8.40	116.59	104.00
4	L	672	U	P-O3'-C3'	-8.39	107.61	120.20
6	N	459	U	OP1-P-O3'	8.39	133.18	108.00
6	N	358	U	P-O3'-C3'	-8.39	107.61	120.20
6	N	388	U	P-O3'-C3'	8.39	132.78	120.20
3	K	100	A	OP1-P-O3'	-8.39	82.84	108.00
2	J	191	A	P-O3'-C3'	-8.38	107.62	120.20
5	M	325	U	P-O3'-C3'	-8.38	107.63	120.20
3	K	67	A	OP2-P-O3'	-8.37	82.89	108.00
3	K	129	A	P-O3'-C3'	-8.37	107.64	120.20
4	L	431	U	O3'-P-O5'	-8.37	91.44	104.00
4	L	682	U	O3'-P-O5'	-8.37	91.45	104.00
1	I	65	A	O3'-P-O5'	-8.37	91.45	104.00
2	J	68	A	OP2-P-O3'	8.37	133.10	108.00
6	N	438	U	P-O3'-C3'	-8.37	107.65	120.20
3	K	197	A	P-O3'-C3'	8.36	132.74	120.20
3	K	132	A	O3'-P-O5'	8.36	116.53	104.00
6	N	360	U	P-O3'-C3'	-8.36	107.67	120.20
3	K	8	A	P-O3'-C3'	-8.35	107.67	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	476	U	O3'-P-O5'	-8.35	91.47	104.00
3	K	76	A	OP2-P-O3'	8.35	133.04	108.00
4	L	530	U	OP1-P-O3'	-8.35	82.97	108.00
4	L	659	U	P-O3'-C3'	-8.35	107.68	120.20
5	M	418	U	O3'-P-O5'	-8.34	91.49	104.00
6	N	437	U	P-O3'-C3'	-8.34	107.69	120.20
3	K	78	A	OP2-P-O3'	8.34	133.01	108.00
3	K	222	A	P-O3'-C3'	-8.34	107.69	120.20
6	N	412	U	OP1-P-O3'	-8.34	82.99	108.00
6	N	505	U	O3'-P-O5'	8.34	116.51	104.00
6	N	443	U	OP1-P-O3'	-8.34	83.00	108.00
1	I	208	A	P-O3'-C3'	-8.33	107.70	120.20
3	K	103	A	P-O3'-C3'	-8.33	107.70	120.20
3	K	71	A	OP1-P-O3'	8.33	132.99	108.00
1	I	50	A	OP2-P-O3'	-8.33	83.02	108.00
1	I	94	A	OP2-P-O3'	-8.32	83.05	108.00
3	K	98	A	O3'-P-O5'	-8.32	91.52	104.00
5	M	517	U	O3'-P-O5'	8.31	116.47	104.00
4	L	419	U	O3'-P-O5'	8.31	116.46	104.00
4	L	641	U	P-O3'-C3'	-8.31	107.74	120.20
3	K	106	A	P-O3'-C3'	-8.30	107.75	120.20
4	L	432	U	OP2-P-O3'	-8.30	83.10	108.00
5	M	419	U	O3'-P-O5'	-8.30	91.55	104.00
1	I	405	A	O3'-P-O5'	-8.30	91.55	104.00
4	L	639	U	OP2-P-O3'	8.29	132.88	108.00
2	J	258	A	OP2-P-O3'	8.29	132.86	108.00
3	K	211	A	OP1-P-O3'	8.29	132.86	108.00
6	N	459	U	O3'-P-O5'	8.28	116.43	104.00
1	I	21	A	OP2-P-O3'	8.28	132.85	108.00
3	K	244	A	O3'-P-O5'	8.28	116.42	104.00
6	N	432	U	P-O3'-C3'	-8.28	107.78	120.20
6	N	464	U	P-O3'-C3'	-8.28	107.78	120.20
1	I	11	A	O3'-P-O5'	-8.27	91.59	104.00
6	N	285	U	O3'-P-O5'	8.27	116.41	104.00
4	L	661	U	OP2-P-O3'	-8.26	83.23	108.00
3	K	201	A	OP1-P-O3'	8.26	132.77	108.00
5	M	526	U	O3'-P-O5'	-8.26	91.61	104.00
4	L	473	U	P-O3'-C3'	-8.26	107.82	120.20
1	I	216	A	O3'-P-O5'	8.25	116.38	104.00
6	N	347	U	O3'-P-O5'	8.25	116.38	104.00
4	L	629	U	O3'-P-O5'	8.25	116.38	104.00
4	L	757	U	OP2-P-O3'	8.25	132.76	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	28	A	OP2-P-O3'	8.25	132.75	108.00
3	K	110	A	O3'-P-O5'	-8.24	91.64	104.00
4	L	706	U	OP1-P-O3'	-8.23	83.31	108.00
1	I	251	A	OP2-P-O3'	8.22	132.66	108.00
4	L	535	U	O3'-P-O5'	-8.22	91.67	104.00
5	M	439	U	O3'-P-O5'	8.22	116.32	104.00
1	I	381	A	OP2-P-O3'	-8.21	83.37	108.00
4	L	500	U	OP2-P-O3'	8.21	132.63	108.00
5	M	433	U	O3'-P-O5'	-8.20	91.69	104.00
1	I	120	A	OP1-P-O3'	-8.20	83.39	108.00
3	K	153	A	OP2-P-O3'	-8.20	83.39	108.00
3	K	80	A	OP2-P-O3'	8.20	132.59	108.00
1	I	115	A	OP2-P-O3'	-8.19	83.42	108.00
5	M	343	U	O3'-P-O5'	8.20	116.29	104.00
2	J	254	A	O3'-P-O5'	-8.19	91.71	104.00
1	I	250	A	OP2-P-O3'	8.18	132.53	108.00
4	L	630	U	O3'-P-O5'	8.18	116.27	104.00
2	J	199	A	O3'-P-O5'	8.17	116.26	104.00
6	N	312	U	OP2-P-O3'	8.17	132.50	108.00
5	M	498	U	P-O3'-C3'	8.16	132.44	120.20
1	I	149	A	OP2-P-O3'	-8.16	83.52	108.00
4	L	812	U	OP1-P-O3'	-8.16	83.52	108.00
4	L	598	U	O3'-P-O5'	8.16	116.24	104.00
5	M	455	U	O3'-P-O5'	-8.15	91.77	104.00
1	I	343	A	OP1-P-O3'	-8.15	83.55	108.00
1	I	167	A	P-O3'-C3'	-8.14	107.99	120.20
2	J	74	A	P-O3'-C3'	-8.12	108.01	120.20
1	I	236	A	OP1-P-O3'	-8.12	83.64	108.00
4	L	526	U	OP2-P-O3'	8.12	132.35	108.00
1	I	6	A	OP2-P-O3'	-8.11	83.67	108.00
1	I	228	A	OP2-P-O3'	8.11	132.34	108.00
4	L	717	U	O3'-P-O5'	-8.11	91.83	104.00
2	J	74	A	O3'-P-O5'	8.11	116.16	104.00
1	I	348	A	OP1-P-O3'	-8.11	83.68	108.00
5	M	390	U	OP2-P-O3'	-8.11	83.68	108.00
1	I	254	A	O3'-P-O5'	-8.10	91.85	104.00
6	N	396	U	O3'-P-O5'	-8.09	91.86	104.00
1	I	325	A	P-O3'-C3'	-8.09	108.07	120.20
4	L	623	U	P-O3'-C3'	-8.08	108.07	120.20
5	M	477	U	O3'-P-O5'	8.08	116.12	104.00
6	N	455	U	O3'-P-O5'	-8.08	91.87	104.00
3	K	6	A	OP2-P-O3'	8.08	132.24	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	758	U	OP1-P-O3'	-8.08	83.76	108.00
2	J	44	A	OP1-P-O3'	-8.07	83.77	108.00
2	J	53	A	P-O3'-C3'	-8.07	108.09	120.20
3	K	43	A	OP1-P-O3'	8.07	132.20	108.00
5	M	466	U	OP1-P-O3'	-8.07	83.80	108.00
3	K	57	A	OP1-P-O3'	8.06	132.19	108.00
6	N	387	U	OP2-P-O3'	-8.06	83.83	108.00
1	I	154	A	P-O3'-C3'	8.05	132.28	120.20
3	K	47	A	O3'-P-O5'	-8.05	91.92	104.00
4	L	556	U	OP1-P-O3'	-8.04	83.86	108.00
4	L	809	U	O3'-P-O5'	8.05	116.07	104.00
4	L	821	U	O3'-P-O5'	-8.05	91.93	104.00
5	M	538	U	OP1-P-O3'	-8.04	83.87	108.00
1	I	188	A	OP2-P-O3'	8.04	132.10	108.00
3	K	50	A	OP2-P-O3'	-8.03	83.91	108.00
3	K	93	A	OP2-P-O3'	8.03	132.09	108.00
4	L	588	U	OP1-P-O3'	-8.03	83.92	108.00
3	K	134	A	O3'-P-O5'	8.03	116.04	104.00
5	M	467	U	OP1-P-O3'	-8.03	83.93	108.00
1	I	16	A	O3'-P-O5'	-8.02	91.97	104.00
4	L	536	U	O3'-P-O5'	-8.01	91.98	104.00
4	L	680	U	O3'-P-O5'	8.01	116.02	104.00
4	L	689	U	OP1-P-O3'	-8.01	83.96	108.00
4	L	803	U	P-O3'-C3'	-8.01	108.19	120.20
4	L	640	U	OP2-P-O3'	-8.00	83.99	108.00
3	K	24	A	O3'-P-O5'	8.00	116.00	104.00
6	N	471	U	O3'-P-O5'	8.00	116.00	104.00
1	I	159	A	OP2-P-O3'	-8.00	84.01	108.00
4	L	451	U	OP2-P-O3'	-8.00	84.01	108.00
4	L	744	U	O3'-P-O5'	8.00	115.99	104.00
1	I	363	A	P-O3'-C3'	-8.00	108.21	120.20
3	K	68	A	OP2-P-O3'	-7.99	84.02	108.00
4	L	724	U	OP1-P-O3'	-7.99	84.02	108.00
5	M	337	U	O3'-P-O5'	-7.99	92.02	104.00
1	I	299	A	O3'-P-O5'	-7.99	92.02	104.00
1	I	404	A	OP1-P-O3'	7.98	131.94	108.00
2	J	267	A	P-O3'-C3'	-7.97	108.25	120.20
4	L	429	U	O3'-P-O5'	-7.97	92.05	104.00
2	J	186	A	OP2-P-O3'	7.97	131.90	108.00
4	L	553	U	OP2-P-O3'	7.97	131.90	108.00
2	J	106	A	OP2-P-O3'	7.96	131.89	108.00
1	I	69	A	OP1-P-O3'	-7.96	84.12	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	403	U	P-O3'-C3'	-7.95	108.27	120.20
4	L	753	U	P-O3'-C3'	-7.95	108.27	120.20
4	L	582	U	P-O3'-C3'	-7.95	108.28	120.20
5	M	427	U	OP2-P-O3'	-7.95	84.15	108.00
3	K	13	A	OP1-P-O3'	7.95	131.84	108.00
1	I	267	A	P-O3'-C3'	-7.95	108.28	120.20
1	I	299	A	OP2-P-O3'	7.94	131.82	108.00
3	K	214	A	P-O3'-C3'	7.94	132.11	120.20
5	M	293	U	P-O3'-C3'	-7.94	108.29	120.20
5	M	408	U	OP2-P-O3'	7.94	131.82	108.00
1	I	333	A	P-O3'-C3'	-7.93	108.30	120.20
3	K	88	A	OP1-P-O3'	-7.93	84.22	108.00
4	L	506	U	P-O3'-C3'	-7.92	108.32	120.20
5	M	489	U	OP1-P-O3'	-7.92	84.24	108.00
5	M	369	U	OP1-P-O3'	-7.91	84.26	108.00
1	I	147	A	P-O3'-C3'	-7.91	108.33	120.20
6	N	452	U	P-O3'-C3'	-7.91	108.33	120.20
6	N	494	U	O3'-P-O5'	7.91	115.86	104.00
1	I	167	A	O3'-P-O5'	7.91	115.86	104.00
4	L	595	U	P-O3'-C3'	-7.90	108.35	120.20
6	N	441	U	O3'-P-O5'	7.90	115.85	104.00
5	M	430	U	OP1-P-O3'	7.90	131.70	108.00
6	N	380	U	OP1-P-O3'	-7.90	84.31	108.00
4	L	428	U	O3'-P-O5'	-7.89	92.16	104.00
5	M	395	U	P-O3'-C3'	-7.89	108.36	120.20
6	N	386	U	P-O3'-C3'	7.89	132.04	120.20
5	M	526	U	OP1-P-O3'	-7.89	84.33	108.00
3	K	110	A	OP1-P-O3'	-7.89	84.34	108.00
2	J	62	A	OP1-P-O3'	-7.88	84.34	108.00
4	L	628	U	P-O3'-C3'	-7.88	108.37	120.20
1	I	386	A	P-O3'-C3'	-7.88	108.38	120.20
1	I	320	A	OP1-P-O3'	-7.88	84.36	108.00
4	L	432	U	O3'-P-O5'	7.88	115.82	104.00
4	L	787	U	OP2-P-O3'	-7.88	84.37	108.00
2	J	249	A	OP2-P-O3'	7.87	131.62	108.00
3	K	171	A	P-O3'-C3'	-7.87	108.39	120.20
1	I	326	A	OP2-P-O3'	7.87	131.59	108.00
6	N	400	U	OP1-P-O3'	-7.87	84.41	108.00
4	L	467	U	O3'-P-O5'	7.86	115.79	104.00
6	N	299	U	OP2-P-O3'	-7.86	84.43	108.00
3	K	152	A	O3'-P-O5'	-7.86	92.22	104.00
1	I	321	A	OP1-P-O3'	-7.85	84.45	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	62	A	OP2-P-O3'	-7.85	84.45	108.00
5	M	300	U	OP2-P-O3'	7.85	131.54	108.00
1	I	202	A	OP2-P-O3'	7.85	131.54	108.00
6	N	334	U	P-O3'-C3'	-7.85	108.43	120.20
1	I	108	A	P-O3'-C3'	-7.84	108.44	120.20
1	I	292	A	O3'-P-O5'	7.84	115.76	104.00
1	I	365	A	O3'-P-O5'	7.83	115.75	104.00
4	L	601	U	OP2-P-O3'	7.83	131.51	108.00
1	I	260	A	OP1-P-O3'	-7.83	84.51	108.00
4	L	704	U	O3'-P-O5'	7.83	115.75	104.00
4	L	568	U	P-O3'-C3'	-7.83	108.46	120.20
4	L	674	U	OP1-P-O3'	-7.83	84.51	108.00
4	L	773	U	P-O3'-C3'	-7.83	108.46	120.20
1	I	53	A	P-O3'-C3'	-7.82	108.47	120.20
2	J	218	A	P-O3'-C3'	-7.82	108.47	120.20
1	I	408	A	O3'-P-O5'	-7.82	92.28	104.00
1	I	218	A	OP2-P-O3'	-7.81	84.56	108.00
6	N	415	U	P-O3'-C3'	7.81	131.92	120.20
2	J	144	A	OP2-P-O3'	7.81	131.42	108.00
3	K	5	A	OP2-P-O3'	7.81	131.42	108.00
6	N	292	U	OP1-P-O3'	7.81	131.42	108.00
2	J	104	A	O3'-P-O5'	7.80	115.71	104.00
3	K	188	A	OP2-P-O3'	-7.80	84.58	108.00
6	N	396	U	OP2-P-O3'	7.80	131.41	108.00
4	L	720	U	P-O3'-C3'	-7.80	108.50	120.20
4	L	530	U	OP2-P-O3'	7.80	131.40	108.00
1	I	165	A	O3'-P-O5'	-7.79	92.31	104.00
1	I	23	A	P-O3'-C3'	-7.79	108.52	120.20
2	J	99	A	P-O3'-C3'	-7.79	108.52	120.20
1	I	183	A	P-O3'-C3'	-7.78	108.53	120.20
5	M	539	U	OP1-P-O3'	-7.78	84.65	108.00
6	N	424	U	P-O3'-C3'	-7.78	108.53	120.20
2	J	99	A	OP2-P-O3'	7.78	131.34	108.00
6	N	358	U	OP2-P-O3'	-7.77	84.68	108.00
5	M	448	U	OP2-P-O3'	7.77	131.32	108.00
1	I	223	A	O3'-P-O5'	-7.77	92.34	104.00
2	J	85	A	P-O3'-C3'	-7.76	108.55	120.20
4	L	594	U	P-O3'-C3'	-7.76	108.56	120.20
1	I	271	A	P-O3'-C3'	-7.76	108.56	120.20
4	L	766	U	OP2-P-O3'	7.76	131.28	108.00
4	L	708	U	P-O3'-C3'	-7.76	108.56	120.20
2	J	274	A	O3'-P-O5'	7.75	115.63	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	368	A	OP2-P-O3'	-7.75	84.75	108.00
2	J	95	A	P-O3'-C3'	-7.75	108.57	120.20
4	L	498	U	OP1-P-O3'	-7.75	84.76	108.00
1	I	303	A	OP1-P-O3'	-7.74	84.77	108.00
5	M	443	U	OP2-P-O3'	-7.74	84.77	108.00
4	L	526	U	P-O3'-C3'	-7.74	108.59	120.20
2	J	173	A	P-O3'-C3'	7.74	131.81	120.20
1	I	192	A	OP2-P-O3'	7.74	131.21	108.00
2	J	198	A	P-O3'-C3'	-7.73	108.61	120.20
3	K	27	A	O3'-P-O5'	7.73	115.60	104.00
2	J	138	A	P-O3'-C3'	-7.72	108.61	120.20
2	J	173	A	OP1-P-O3'	7.72	131.17	108.00
6	N	398	U	P-O3'-C3'	-7.72	108.62	120.20
6	N	366	U	OP2-P-O3'	-7.72	84.84	108.00
2	J	34	A	P-O3'-C3'	-7.72	108.62	120.20
4	L	813	U	P-O3'-C3'	-7.72	108.62	120.20
2	J	88	A	OP1-P-O3'	-7.71	84.85	108.00
6	N	276	U	P-O3'-C3'	-7.71	108.63	120.20
6	N	388	U	OP1-P-O3'	7.71	131.12	108.00
1	I	207	A	P-O3'-C3'	-7.71	108.64	120.20
5	M	318	U	OP1-P-O3'	-7.70	84.89	108.00
6	N	267	U	O3'-P-O5'	7.70	115.55	104.00
6	N	325	U	OP1-P-O3'	7.70	131.11	108.00
1	I	390	A	OP2-P-O3'	-7.70	84.90	108.00
3	K	95	A	OP2-P-O3'	7.70	131.10	108.00
4	L	761	U	P-O3'-C3'	-7.70	108.65	120.20
1	I	28	A	P-O3'-C3'	-7.70	108.65	120.20
1	I	259	A	OP1-P-O3'	-7.70	84.91	108.00
1	I	24	A	P-O3'-C3'	-7.69	108.66	120.20
4	L	577	U	OP2-P-O3'	7.69	131.06	108.00
6	N	364	U	OP2-P-O3'	-7.69	84.94	108.00
2	J	269	A	OP2-P-O3'	-7.69	84.94	108.00
2	J	102	A	OP2-P-O3'	7.68	131.05	108.00
3	K	226	A	OP2-P-O3'	-7.68	84.95	108.00
5	M	329	U	OP1-P-O3'	-7.68	84.95	108.00
6	N	402	U	P-O3'-C3'	-7.68	108.67	120.20
2	J	203	A	P-O3'-C3'	-7.67	108.69	120.20
2	J	122	A	P-O3'-C3'	-7.67	108.69	120.20
3	K	35	A	P-O3'-C3'	-7.67	108.69	120.20
2	J	156	A	OP2-P-O3'	7.67	131.01	108.00
3	K	240	A	O3'-P-O5'	-7.67	92.50	104.00
3	K	171	A	OP2-P-O3'	-7.66	85.01	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	787	U	P-O3'-C3'	-7.66	108.71	120.20
1	I	155	A	OP2-P-O3'	-7.66	85.02	108.00
6	N	426	U	OP1-P-O3'	-7.66	85.03	108.00
4	L	750	U	P-O3'-C3'	7.66	131.68	120.20
6	N	372	U	O3'-P-O5'	7.66	115.48	104.00
2	J	81	A	O3'-P-O5'	-7.65	92.53	104.00
3	K	207	A	P-O3'-C3'	7.65	131.67	120.20
1	I	292	A	OP1-P-O3'	-7.65	85.06	108.00
1	I	306	A	OP1-P-O3'	-7.65	85.06	108.00
5	M	292	U	O3'-P-O5'	7.65	115.47	104.00
1	I	337	A	OP2-P-O3'	7.64	130.92	108.00
1	I	333	A	OP2-P-O3'	7.63	130.91	108.00
3	K	142	A	OP1-P-O3'	7.63	130.91	108.00
4	L	452	U	O3'-P-O5'	7.63	115.45	104.00
1	I	116	A	P-O3'-C3'	-7.63	108.75	120.20
4	L	546	U	OP2-P-O3'	7.63	130.89	108.00
4	L	657	U	P-O3'-C3'	-7.62	108.77	120.20
3	K	136	A	OP1-P-O3'	-7.62	85.15	108.00
5	M	338	U	OP2-P-O3'	-7.62	85.15	108.00
1	I	410	A	OP2-P-O3'	-7.62	85.15	108.00
4	L	524	U	O3'-P-O5'	7.62	115.43	104.00
4	L	671	U	OP2-P-O3'	7.61	130.84	108.00
2	J	256	A	O3'-P-O5'	7.61	115.42	104.00
4	L	726	U	P-O3'-C3'	-7.61	108.78	120.20
2	J	209	A	O3'-P-O5'	-7.61	92.59	104.00
4	L	607	U	P-O3'-C3'	-7.60	108.80	120.20
6	N	514	U	P-O3'-C3'	-7.60	108.81	120.20
3	K	234	A	OP2-P-O3'	-7.59	85.22	108.00
4	L	637	U	OP2-P-O3'	7.59	130.77	108.00
4	L	735	U	OP2-P-O3'	7.59	130.76	108.00
2	J	62	A	OP2-P-O3'	7.58	130.75	108.00
2	J	22	A	P-O3'-C3'	-7.58	108.83	120.20
3	K	244	A	OP2-P-O3'	-7.58	85.26	108.00
5	M	351	U	P-O3'-C3'	-7.58	108.84	120.20
1	I	268	A	OP2-P-O3'	7.56	130.67	108.00
1	I	313	A	O3'-P-O5'	-7.55	92.68	104.00
4	L	681	U	OP1-P-O3'	7.54	130.63	108.00
4	L	703	U	O3'-P-O5'	-7.54	92.69	104.00
2	J	225	A	OP2-P-O3'	-7.53	85.40	108.00
2	J	238	A	P-O3'-C3'	-7.53	108.90	120.20
2	J	10	A	O3'-P-O5'	7.53	115.29	104.00
3	K	198	A	OP1-P-O3'	7.52	130.57	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	489	U	P-O3'-C3'	-7.52	108.92	120.20
1	I	37	A	P-O3'-C3'	-7.52	108.92	120.20
2	J	51	A	P-O3'-C3'	-7.52	108.92	120.20
3	K	160	A	OP2-P-O3'	7.52	130.56	108.00
4	L	509	U	P-O3'-C3'	-7.52	108.92	120.20
4	L	814	U	OP1-P-O3'	-7.51	85.46	108.00
3	K	64	A	OP2-P-O3'	7.50	130.51	108.00
4	L	604	U	OP1-P-O3'	-7.50	85.49	108.00
5	M	373	U	OP2-P-O3'	7.50	130.51	108.00
6	N	296	U	OP2-P-O3'	-7.50	85.50	108.00
1	I	129	A	O3'-P-O5'	7.50	115.24	104.00
4	L	645	U	OP2-P-O3'	-7.50	85.52	108.00
3	K	150	A	P-O3'-C3'	-7.49	108.96	120.20
2	J	152	A	OP2-P-O3'	7.49	130.46	108.00
2	J	54	A	OP2-P-O3'	7.48	130.45	108.00
4	L	673	U	OP2-P-O3'	7.48	130.44	108.00
1	I	159	A	P-O3'-C3'	-7.48	108.98	120.20
2	J	243	A	OP2-P-O3'	-7.48	85.57	108.00
6	N	418	U	OP2-P-O3'	-7.48	85.57	108.00
1	I	79	A	OP1-P-O3'	-7.47	85.58	108.00
2	J	247	A	OP2-P-O3'	-7.47	85.58	108.00
4	L	421	U	OP2-P-O3'	7.47	130.42	108.00
5	M	350	U	OP2-P-O3'	7.47	130.42	108.00
1	I	7	A	O3'-P-O5'	7.47	115.21	104.00
4	L	575	U	OP1-P-O3'	-7.46	85.61	108.00
4	L	438	U	OP1-P-O3'	7.46	130.39	108.00
5	M	532	U	O3'-P-O5'	7.46	115.19	104.00
2	J	171	A	P-O3'-C3'	7.46	131.38	120.20
4	L	712	U	OP1-P-O3'	-7.46	85.63	108.00
5	M	321	U	P-O3'-C3'	-7.45	109.02	120.20
1	I	15	A	OP1-P-O3'	-7.44	85.67	108.00
5	M	336	U	OP1-P-O3'	-7.44	85.67	108.00
1	I	154	A	O3'-P-O5'	7.44	115.16	104.00
1	I	121	A	OP2-P-O3'	-7.44	85.68	108.00
1	I	123	A	P-O3'-C3'	-7.44	109.04	120.20
4	L	476	U	O3'-P-O5'	7.44	115.16	104.00
3	K	215	A	O3'-P-O5'	-7.44	92.85	104.00
6	N	477	U	OP2-P-O3'	7.44	130.31	108.00
1	I	4	A	OP1-P-O3'	7.43	130.30	108.00
2	J	16	A	P-O3'-C3'	-7.43	109.05	120.20
4	L	490	U	P-O3'-C3'	-7.43	109.05	120.20
4	L	493	U	P-O3'-C3'	-7.43	109.05	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	87	A	P-O3'-C3'	-7.43	109.06	120.20
4	L	520	U	OP1-P-O3'	-7.43	85.71	108.00
1	I	321	A	OP2-P-O3'	7.43	130.28	108.00
6	N	465	U	OP2-P-O3'	-7.43	85.72	108.00
1	I	243	A	OP2-P-O3'	7.43	130.28	108.00
1	I	277	A	OP1-P-O3'	7.43	130.28	108.00
1	I	300	A	OP2-P-O3'	-7.43	85.72	108.00
5	M	514	U	OP1-P-O3'	-7.42	85.74	108.00
1	I	255	A	OP1-P-O3'	-7.42	85.75	108.00
6	N	477	U	OP1-P-O3'	-7.42	85.76	108.00
1	I	304	A	OP1-P-O3'	-7.41	85.76	108.00
3	K	23	A	O3'-P-O5'	7.41	115.12	104.00
6	N	291	U	O3'-P-O5'	7.41	115.12	104.00
4	L	650	U	OP1-P-O3'	-7.41	85.78	108.00
3	K	167	A	OP1-P-O3'	-7.41	85.78	108.00
3	K	264	A	O3'-P-O5'	7.41	115.11	104.00
4	L	602	U	OP2-P-O3'	7.40	130.21	108.00
5	M	462	U	OP2-P-O3'	7.40	130.20	108.00
4	L	671	U	P-O3'-C3'	-7.40	109.10	120.20
2	J	128	A	OP1-P-O3'	-7.40	85.81	108.00
3	K	166	A	OP1-P-O3'	-7.39	85.82	108.00
2	J	156	A	P-O3'-C3'	-7.39	109.11	120.20
3	K	55	A	OP2-P-O3'	-7.39	85.83	108.00
4	L	513	U	OP2-P-O3'	7.39	130.17	108.00
6	N	496	U	P-O3'-C3'	-7.39	109.11	120.20
6	N	421	U	OP2-P-O3'	7.39	130.16	108.00
2	J	117	A	O3'-P-O5'	7.38	115.08	104.00
4	L	634	U	OP1-P-O3'	-7.38	85.86	108.00
1	I	76	A	OP2-P-O3'	7.38	130.13	108.00
4	L	688	U	OP1-P-O3'	-7.38	85.87	108.00
5	M	393	U	P-O3'-C3'	-7.38	109.14	120.20
4	L	638	U	O3'-P-O5'	-7.37	92.94	104.00
2	J	243	A	O3'-P-O5'	7.37	115.06	104.00
3	K	83	A	OP2-P-O3'	-7.37	85.89	108.00
4	L	648	U	O3'-P-O5'	-7.37	92.95	104.00
1	I	215	A	P-O3'-C3'	-7.37	109.15	120.20
2	J	233	A	P-O3'-C3'	-7.37	109.15	120.20
5	M	525	U	OP1-P-O3'	-7.36	85.91	108.00
3	K	157	A	OP2-P-O3'	7.36	130.09	108.00
1	I	326	A	O3'-P-O5'	-7.36	92.96	104.00
5	M	352	U	OP2-P-O3'	-7.36	85.92	108.00
6	N	374	U	O3'-P-O5'	-7.36	92.96	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	487	U	OP1-P-O3'	-7.36	85.93	108.00
1	I	12	A	O3'-P-O5'	-7.35	92.98	104.00
5	M	493	U	P-O3'-C3'	-7.35	109.18	120.20
6	N	524	U	P-O3'-C3'	7.34	131.22	120.20
1	I	181	A	OP2-P-O3'	7.34	130.02	108.00
1	I	11	A	P-O3'-C3'	-7.33	109.20	120.20
1	I	265	A	OP2-P-O3'	7.33	130.00	108.00
4	L	581	U	P-O3'-C3'	-7.33	109.20	120.20
2	J	211	A	OP1-P-O3'	-7.33	86.01	108.00
5	M	404	U	P-O3'-C3'	-7.33	109.21	120.20
1	I	72	A	OP1-P-O3'	-7.33	86.02	108.00
6	N	486	U	OP2-P-O3'	7.33	129.98	108.00
4	L	584	U	O3'-P-O5'	7.32	114.98	104.00
4	L	767	U	OP1-P-O3'	7.32	129.95	108.00
4	L	561	U	OP1-P-O3'	-7.31	86.06	108.00
3	K	173	A	O3'-P-O5'	7.31	114.97	104.00
1	I	44	A	OP1-P-O3'	-7.31	86.07	108.00
3	K	158	A	OP2-P-O3'	7.31	129.92	108.00
3	K	19	A	P-O3'-C3'	7.30	131.16	120.20
2	J	226	A	P-O3'-C3'	-7.30	109.25	120.20
3	K	121	A	OP2-P-O3'	7.30	129.90	108.00
4	L	583	U	OP2-P-O3'	7.30	129.90	108.00
4	L	736	U	P-O3'-C3'	-7.30	109.26	120.20
3	K	53	A	OP2-P-O3'	-7.29	86.12	108.00
3	K	145	A	OP1-P-O3'	7.29	129.88	108.00
1	I	238	A	P-O3'-C3'	-7.29	109.26	120.20
3	K	82	A	O3'-P-O5'	-7.28	93.09	104.00
5	M	535	U	O3'-P-O5'	-7.28	93.09	104.00
6	N	483	U	O3'-P-O5'	-7.28	93.09	104.00
4	L	622	U	OP1-P-O3'	-7.27	86.19	108.00
6	N	302	U	P-O3'-C3'	7.27	131.11	120.20
3	K	196	A	OP2-P-O3'	-7.27	86.20	108.00
2	J	106	A	O3'-P-O5'	-7.27	93.10	104.00
5	M	341	U	O3'-P-O5'	7.27	114.90	104.00
4	L	419	U	OP1-P-O3'	7.26	129.79	108.00
4	L	690	U	P-O3'-C3'	-7.26	109.31	120.20
1	I	389	A	OP1-P-O3'	7.25	129.76	108.00
5	M	384	U	O3'-P-O5'	-7.25	93.12	104.00
4	L	802	U	OP2-P-O3'	7.25	129.75	108.00
6	N	497	U	OP1-P-O3'	-7.25	86.25	108.00
5	M	475	U	OP2-P-O3'	-7.25	86.26	108.00
2	J	239	A	O3'-P-O5'	7.24	114.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	237	A	OP2-P-O3'	7.24	129.73	108.00
1	I	22	A	OP2-P-O3'	7.24	129.72	108.00
1	I	307	A	O3'-P-O5'	-7.24	93.15	104.00
3	K	34	A	P-O3'-C3'	7.24	131.05	120.20
5	M	356	U	O3'-P-O5'	7.23	114.85	104.00
2	J	94	A	OP1-P-O3'	-7.23	86.30	108.00
5	M	490	U	P-O3'-C3'	-7.23	109.35	120.20
2	J	21	A	OP1-P-O3'	-7.23	86.31	108.00
2	J	24	A	P-O3'-C3'	-7.23	109.35	120.20
5	M	491	U	O3'-P-O5'	7.23	114.85	104.00
3	K	107	A	P-O3'-C3'	-7.22	109.37	120.20
4	L	768	U	P-O3'-C3'	-7.22	109.37	120.20
5	M	346	U	OP2-P-O3'	7.22	129.67	108.00
6	N	459	U	P-O3'-C3'	7.22	131.03	120.20
2	J	232	A	P-O3'-C3'	-7.22	109.37	120.20
2	J	52	A	OP2-P-O3'	7.22	129.66	108.00
5	M	415	U	P-O3'-C3'	-7.21	109.38	120.20
6	N	495	U	OP1-P-O3'	7.21	129.64	108.00
6	N	388	U	O3'-P-O5'	7.21	114.82	104.00
1	I	104	A	OP1-P-O3'	7.21	129.63	108.00
4	L	652	U	O3'-P-O5'	7.21	114.81	104.00
5	M	457	U	OP1-P-O3'	-7.21	86.38	108.00
1	I	138	A	OP1-P-O3'	-7.20	86.39	108.00
5	M	297	U	OP1-P-O3'	-7.20	86.40	108.00
2	J	77	A	O3'-P-O5'	7.20	114.79	104.00
3	K	41	A	O3'-P-O5'	7.20	114.80	104.00
3	K	212	A	OP1-P-O3'	7.19	129.57	108.00
4	L	491	U	P-O3'-C3'	-7.19	109.42	120.20
6	N	487	U	P-O3'-C3'	-7.19	109.42	120.20
3	K	162	A	P-O3'-C3'	-7.19	109.42	120.20
4	L	422	U	OP2-P-O3'	7.18	129.56	108.00
5	M	296	U	OP1-P-O3'	-7.18	86.45	108.00
5	M	376	U	P-O3'-C3'	-7.18	109.43	120.20
3	K	90	A	OP2-P-O3'	7.18	129.54	108.00
5	M	307	U	OP2-P-O3'	-7.18	86.46	108.00
5	M	359	U	OP2-P-O3'	-7.18	86.47	108.00
5	M	486	U	OP1-P-O3'	-7.17	86.50	108.00
1	I	214	A	P-O3'-C3'	-7.16	109.46	120.20
1	I	55	A	OP1-P-O3'	-7.16	86.53	108.00
2	J	100	A	P-O3'-C3'	-7.16	109.47	120.20
3	K	184	A	OP2-P-O3'	-7.16	86.53	108.00
5	M	525	U	OP2-P-O3'	7.16	129.46	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	438	U	OP1-P-O3'	-7.15	86.55	108.00
2	J	153	A	OP1-P-O3'	-7.15	86.56	108.00
4	L	553	U	O3'-P-O5'	-7.15	93.28	104.00
1	I	333	A	OP1-P-O3'	-7.14	86.57	108.00
5	M	381	U	OP1-P-O3'	7.14	129.43	108.00
4	L	784	U	OP2-P-O3'	-7.13	86.60	108.00
1	I	141	A	OP1-P-O3'	7.13	129.39	108.00
4	L	571	U	OP1-P-O3'	7.13	129.38	108.00
2	J	125	A	O3'-P-O5'	7.12	114.68	104.00
4	L	684	U	OP1-P-O3'	7.12	129.35	108.00
6	N	300	U	OP1-P-O3'	7.12	129.35	108.00
6	N	322	U	OP1-P-O3'	7.12	129.35	108.00
2	J	67	A	OP1-P-O3'	-7.11	86.66	108.00
3	K	142	A	P-O3'-C3'	7.11	130.87	120.20
1	I	35	A	P-O3'-C3'	-7.11	109.54	120.20
3	K	263	A	O3'-P-O5'	7.10	114.66	104.00
3	K	24	A	OP2-P-O3'	-7.10	86.70	108.00
3	K	208	A	OP2-P-O3'	-7.09	86.72	108.00
6	N	487	U	OP1-P-O3'	7.09	129.27	108.00
1	I	150	A	O3'-P-O5'	7.09	114.63	104.00
1	I	258	A	O3'-P-O5'	7.09	114.63	104.00
1	I	88	A	P-O3'-C3'	-7.08	109.58	120.20
2	J	196	A	OP2-P-O3'	-7.08	86.77	108.00
1	I	393	A	OP2-P-O3'	7.07	129.20	108.00
3	K	86	A	OP1-P-O3'	-7.07	86.80	108.00
6	N	379	U	OP1-P-O3'	-7.07	86.80	108.00
4	L	458	U	OP2-P-O3'	7.06	129.19	108.00
1	I	132	A	OP1-P-O3'	-7.06	86.83	108.00
2	J	136	A	OP2-P-O3'	-7.06	86.83	108.00
2	J	227	A	P-O3'-C3'	-7.05	109.62	120.20
2	J	187	A	OP1-P-O3'	-7.05	86.84	108.00
5	M	314	U	OP2-P-O3'	-7.05	86.84	108.00
4	L	454	U	OP2-P-O3'	-7.04	86.87	108.00
5	M	329	U	OP2-P-O3'	-7.04	86.88	108.00
6	N	501	U	OP2-P-O3'	7.04	129.12	108.00
5	M	297	U	OP2-P-O3'	7.04	129.11	108.00
1	I	314	A	O3'-P-O5'	-7.04	93.45	104.00
3	K	112	A	OP2-P-O3'	-7.04	86.90	108.00
3	K	48	A	O3'-P-O5'	7.03	114.55	104.00
1	I	182	A	OP1-P-O3'	-7.03	86.91	108.00
2	J	81	A	OP2-P-O3'	7.03	129.08	108.00
2	J	141	A	P-O3'-C3'	-7.03	109.66	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	172	A	P-O3'-C3'	-7.03	109.66	120.20
1	I	230	A	OP1-P-O3'	-7.02	86.95	108.00
1	I	318	A	P-O3'-C3'	-7.02	109.67	120.20
1	I	256	A	O3'-P-O5'	-7.01	93.48	104.00
5	M	432	U	P-O3'-C3'	-7.01	109.68	120.20
3	K	95	A	O3'-P-O5'	-7.01	93.48	104.00
4	L	639	U	OP1-P-O3'	-7.01	86.97	108.00
6	N	303	U	OP2-P-O3'	-7.01	86.97	108.00
6	N	352	U	OP2-P-O3'	7.01	129.02	108.00
1	I	66	A	OP1-P-O3'	-7.00	86.99	108.00
5	M	360	U	OP2-P-O3'	-7.00	86.99	108.00
5	M	545	U	P-O3'-C3'	7.00	130.70	120.20
4	L	461	U	P-O3'-C3'	-7.00	109.70	120.20
1	I	26	A	OP1-P-O3'	-7.00	87.02	108.00
5	M	452	U	P-O3'-C3'	-6.98	109.72	120.20
4	L	540	U	OP2-P-O3'	-6.98	87.05	108.00
6	N	357	U	P-O3'-C3'	-6.98	109.73	120.20
1	I	246	A	P-O3'-C3'	-6.98	109.73	120.20
5	M	485	U	O3'-P-O5'	-6.98	93.54	104.00
3	K	90	A	OP1-P-O3'	-6.97	87.08	108.00
5	M	490	U	OP2-P-O3'	-6.97	87.09	108.00
6	N	309	U	OP1-P-O3'	6.97	128.91	108.00
4	L	474	U	OP2-P-O3'	6.97	128.90	108.00
4	L	631	U	OP2-P-O3'	-6.97	87.10	108.00
4	L	660	U	OP2-P-O3'	6.96	128.89	108.00
6	N	387	U	OP1-P-O3'	6.96	128.87	108.00
3	K	214	A	OP1-P-O3'	6.96	128.86	108.00
3	K	218	A	OP1-P-O3'	6.96	128.86	108.00
5	M	523	U	P-O3'-C3'	-6.95	109.78	120.20
1	I	386	A	OP1-P-O3'	6.94	128.83	108.00
2	J	263	A	OP2-P-O3'	6.94	128.82	108.00
2	J	121	A	O3'-P-O5'	6.94	114.41	104.00
5	M	283	U	OP2-P-O3'	-6.94	87.18	108.00
1	I	295	A	P-O3'-C3'	-6.94	109.79	120.20
3	K	105	A	P-O3'-C3'	-6.94	109.79	120.20
2	J	157	A	O3'-P-O5'	6.93	114.40	104.00
5	M	385	U	OP2-P-O3'	-6.93	87.20	108.00
5	M	316	U	O3'-P-O5'	6.93	114.40	104.00
6	N	340	U	O3'-P-O5'	-6.93	93.60	104.00
5	M	294	U	P-O3'-C3'	-6.93	109.81	120.20
5	M	424	U	P-O3'-C3'	-6.93	109.81	120.20
4	L	679	U	OP2-P-O3'	-6.93	87.22	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	463	U	OP2-P-O3'	6.93	128.78	108.00
5	M	549	U	OP2-P-O3'	-6.93	87.22	108.00
1	I	80	A	O3'-P-O5'	6.92	114.39	104.00
4	L	785	U	OP2-P-O3'	-6.92	87.23	108.00
4	L	522	U	OP1-P-O3'	-6.92	87.25	108.00
5	M	448	U	OP1-P-O3'	-6.91	87.26	108.00
4	L	614	U	OP2-P-O3'	6.91	128.74	108.00
4	L	510	U	P-O3'-C3'	-6.91	109.84	120.20
4	L	702	U	O3'-P-O5'	6.91	114.36	104.00
4	L	547	U	OP1-P-O3'	6.90	128.70	108.00
5	M	339	U	OP2-P-O3'	6.90	128.70	108.00
2	J	84	A	OP1-P-O3'	-6.89	87.31	108.00
4	L	488	U	P-O3'-C3'	-6.89	109.86	120.20
4	L	805	U	O3'-P-O5'	-6.89	93.66	104.00
6	N	469	U	P-O3'-C3'	-6.89	109.86	120.20
4	L	805	U	P-O3'-C3'	-6.89	109.86	120.20
2	J	12	A	OP1-P-O3'	-6.89	87.33	108.00
6	N	378	U	OP1-P-O3'	6.89	128.67	108.00
3	K	133	A	OP2-P-O3'	6.89	128.66	108.00
1	I	179	A	O3'-P-O5'	-6.89	93.67	104.00
4	L	772	U	P-O3'-C3'	-6.89	109.87	120.20
4	L	676	U	O3'-P-O5'	6.88	114.33	104.00
4	L	778	U	P-O3'-C3'	-6.88	109.87	120.20
5	M	372	U	OP1-P-O3'	-6.88	87.35	108.00
5	M	412	U	P-O3'-C3'	-6.88	109.88	120.20
2	J	211	A	O3'-P-O5'	-6.88	93.68	104.00
5	M	417	U	O3'-P-O5'	-6.88	93.68	104.00
6	N	318	U	OP2-P-O3'	-6.88	87.37	108.00
6	N	503	U	O3'-P-O5'	6.88	114.32	104.00
2	J	45	A	OP1-P-O3'	-6.88	87.37	108.00
2	J	193	A	OP2-P-O3'	6.87	128.62	108.00
2	J	214	A	OP1-P-O3'	-6.87	87.39	108.00
1	I	63	A	O3'-P-O5'	-6.87	93.70	104.00
2	J	234	A	OP2-P-O3'	6.86	128.59	108.00
6	N	282	U	P-O3'-C3'	-6.86	109.90	120.20
4	L	593	U	OP2-P-O3'	6.86	128.57	108.00
5	M	406	U	OP1-P-O3'	-6.86	87.43	108.00
5	M	498	U	OP1-P-O3'	6.85	128.55	108.00
1	I	60	A	O3'-P-O5'	-6.85	93.73	104.00
5	M	304	U	O3'-P-O5'	6.84	114.26	104.00
5	M	323	U	OP1-P-O3'	-6.84	87.48	108.00
1	I	349	A	OP1-P-O3'	-6.84	87.48	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	578	U	OP2-P-O3'	6.83	128.50	108.00
4	L	569	U	P-O3'-C3'	-6.83	109.95	120.20
4	L	629	U	OP1-P-O3'	-6.83	87.51	108.00
3	K	250	A	O3'-P-O5'	6.82	114.24	104.00
5	M	484	U	OP2-P-O3'	6.82	128.47	108.00
1	I	288	A	OP2-P-O3'	6.82	128.47	108.00
6	N	319	U	OP1-P-O3'	6.82	128.47	108.00
3	K	129	A	O3'-P-O5'	-6.82	93.77	104.00
4	L	781	U	OP2-P-O3'	-6.82	87.55	108.00
2	J	58	A	OP1-P-O3'	-6.81	87.56	108.00
4	L	617	U	O3'-P-O5'	6.81	114.22	104.00
1	I	169	A	P-O3'-C3'	-6.81	109.98	120.20
2	J	228	A	OP2-P-O3'	6.81	128.42	108.00
2	J	57	A	OP1-P-O3'	-6.80	87.60	108.00
3	K	204	A	P-O3'-C3'	-6.80	110.00	120.20
2	J	67	A	OP2-P-O3'	6.79	128.38	108.00
5	M	450	U	P-O3'-C3'	-6.79	110.01	120.20
2	J	150	A	OP2-P-O3'	-6.79	87.63	108.00
3	K	16	A	OP2-P-O3'	-6.79	87.64	108.00
4	L	507	U	OP1-P-O3'	-6.78	87.65	108.00
5	M	459	U	OP2-P-O3'	6.78	128.35	108.00
4	L	803	U	OP2-P-O3'	6.78	128.35	108.00
1	I	38	A	P-O3'-C3'	-6.78	110.03	120.20
5	M	287	U	P-O3'-C3'	-6.78	110.03	120.20
5	M	464	U	OP1-P-O3'	-6.78	87.67	108.00
4	L	604	U	OP2-P-O3'	6.77	128.31	108.00
2	J	15	A	OP1-P-O3'	-6.77	87.70	108.00
4	L	480	U	OP1-P-O3'	-6.77	87.70	108.00
2	J	42	A	P-O3'-C3'	-6.76	110.05	120.20
1	I	49	A	OP1-P-O3'	-6.76	87.72	108.00
4	L	681	U	P-O3'-C3'	6.75	130.33	120.20
4	L	430	U	OP1-P-O3'	6.75	128.25	108.00
2	J	2	A	OP2-P-O3'	-6.75	87.76	108.00
5	M	371	U	OP1-P-O3'	-6.74	87.77	108.00
4	L	669	U	O3'-P-O5'	-6.74	93.89	104.00
3	K	27	A	OP2-P-O3'	-6.74	87.79	108.00
4	L	782	U	P-O3'-C3'	-6.74	110.10	120.20
6	N	432	U	O3'-P-O5'	6.73	114.10	104.00
1	I	401	A	OP1-P-O3'	6.73	128.19	108.00
1	I	349	A	OP2-P-O3'	6.73	128.19	108.00
2	J	122	A	OP1-P-O3'	6.72	128.18	108.00
1	I	367	A	OP2-P-O3'	-6.72	87.84	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	92	A	OP1-P-O3'	-6.72	87.85	108.00
1	I	37	A	OP2-P-O3'	-6.71	87.85	108.00
4	L	642	U	OP2-P-O3'	6.71	128.14	108.00
1	I	129	A	OP2-P-O3'	6.71	128.14	108.00
6	N	502	U	O3'-P-O5'	-6.71	93.93	104.00
1	I	390	A	OP1-P-O3'	6.71	128.12	108.00
2	J	163	A	P-O3'-C3'	6.71	130.26	120.20
4	L	565	U	O3'-P-O5'	6.70	114.06	104.00
1	I	156	A	OP1-P-O3'	6.70	128.10	108.00
5	M	421	U	P-O3'-C3'	-6.69	110.16	120.20
2	J	108	A	P-O3'-C3'	-6.69	110.16	120.20
2	J	81	A	P-O3'-C3'	-6.69	110.17	120.20
2	J	270	A	OP2-P-O3'	-6.68	87.95	108.00
5	M	410	U	OP2-P-O3'	6.68	128.04	108.00
4	L	590	U	OP1-P-O3'	-6.68	87.97	108.00
1	I	330	A	OP1-P-O3'	-6.67	87.97	108.00
4	L	589	U	O3'-P-O5'	6.67	114.01	104.00
6	N	335	U	O3'-P-O5'	-6.67	93.99	104.00
4	L	533	U	O3'-P-O5'	-6.67	93.99	104.00
4	L	555	U	O3'-P-O5'	6.67	114.01	104.00
5	M	538	U	OP2-P-O3'	6.67	128.00	108.00
4	L	451	U	P-O3'-C3'	-6.67	110.20	120.20
3	K	227	A	OP2-P-O3'	-6.66	88.01	108.00
5	M	507	U	OP1-P-O3'	-6.66	88.03	108.00
5	M	461	U	OP1-P-O3'	-6.66	88.03	108.00
6	N	427	U	O3'-P-O5'	-6.66	94.02	104.00
1	I	43	A	P-O3'-C3'	-6.65	110.22	120.20
2	J	66	A	OP1-P-O3'	-6.65	88.04	108.00
5	M	308	U	OP2-P-O3'	-6.65	88.04	108.00
4	L	802	U	P-O3'-C3'	-6.65	110.23	120.20
1	I	122	A	O3'-P-O5'	-6.65	94.03	104.00
6	N	398	U	OP2-P-O3'	-6.65	88.06	108.00
6	N	436	U	O3'-P-O5'	-6.65	94.03	104.00
1	I	91	A	OP2-P-O3'	6.64	127.94	108.00
6	N	281	U	OP2-P-O3'	6.64	127.94	108.00
2	J	72	A	OP2-P-O3'	6.64	127.93	108.00
6	N	313	U	P-O3'-C3'	-6.64	110.24	120.20
4	L	427	U	O3'-P-O5'	-6.64	94.05	104.00
1	I	386	A	OP2-P-O3'	-6.63	88.10	108.00
1	I	391	A	OP1-P-O3'	6.63	127.89	108.00
5	M	388	U	O3'-P-O5'	6.63	113.94	104.00
2	J	89	A	P-O3'-C3'	-6.62	110.26	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	341	U	OP1-P-O3'	6.62	127.87	108.00
6	N	320	U	OP2-P-O3'	6.62	127.86	108.00
5	M	298	U	OP2-P-O3'	6.62	127.84	108.00
1	I	406	A	P-O3'-C3'	-6.61	110.28	120.20
4	L	776	U	OP1-P-O3'	-6.61	88.17	108.00
5	M	411	U	OP2-P-O3'	6.60	127.81	108.00
5	M	349	U	OP1-P-O3'	-6.60	88.20	108.00
2	J	133	A	P-O3'-C3'	-6.59	110.31	120.20
2	J	236	A	P-O3'-C3'	-6.59	110.31	120.20
2	J	252	A	OP2-P-O3'	6.59	127.77	108.00
2	J	124	A	OP2-P-O3'	-6.59	88.24	108.00
5	M	467	U	OP2-P-O3'	6.59	127.76	108.00
3	K	106	A	OP2-P-O3'	6.58	127.75	108.00
4	L	707	U	O3'-P-O5'	6.58	113.88	104.00
5	M	548	U	OP1-P-O3'	6.58	127.75	108.00
3	K	12	A	OP1-P-O3'	6.58	127.74	108.00
5	M	367	U	O3'-P-O5'	-6.58	94.13	104.00
4	L	413	U	O3'-P-O5'	6.58	113.87	104.00
3	K	204	A	OP1-P-O3'	6.58	127.73	108.00
5	M	379	U	OP1-P-O3'	6.58	127.72	108.00
4	L	597	U	OP2-P-O3'	6.57	127.72	108.00
5	M	402	U	P-O3'-C3'	-6.57	110.34	120.20
6	N	332	U	P-O3'-C3'	-6.57	110.34	120.20
1	I	177	A	P-O3'-C3'	6.57	130.05	120.20
1	I	202	A	OP1-P-O3'	-6.57	88.30	108.00
2	J	192	A	OP1-P-O3'	-6.57	88.30	108.00
4	L	599	U	OP2-P-O3'	6.56	127.69	108.00
5	M	418	U	OP2-P-O3'	6.56	127.67	108.00
4	L	426	U	O3'-P-O5'	-6.55	94.17	104.00
3	K	219	A	O3'-P-O5'	-6.54	94.19	104.00
4	L	602	U	O3'-P-O5'	-6.54	94.19	104.00
1	I	403	A	P-O3'-C3'	6.54	130.01	120.20
2	J	154	A	OP2-P-O3'	-6.54	88.39	108.00
2	J	186	A	OP1-P-O3'	-6.54	88.38	108.00
2	J	170	A	OP2-P-O3'	-6.54	88.39	108.00
2	J	244	A	P-O3'-C3'	-6.53	110.40	120.20
1	I	22	A	P-O3'-C3'	-6.53	110.40	120.20
1	I	53	A	OP2-P-O3'	-6.53	88.41	108.00
4	L	598	U	OP1-P-O3'	-6.53	88.42	108.00
5	M	483	U	OP1-P-O3'	-6.53	88.42	108.00
4	L	416	U	O3'-P-O5'	-6.53	94.21	104.00
1	I	112	A	OP2-P-O3'	6.52	127.57	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	221	A	OP1-P-O3'	6.52	127.57	108.00
2	J	268	A	OP2-P-O3'	-6.52	88.44	108.00
4	L	682	U	P-O3'-C3'	6.52	129.97	120.20
1	I	139	A	OP2-P-O3'	-6.51	88.45	108.00
2	J	215	A	OP1-P-O3'	-6.51	88.46	108.00
2	J	109	A	P-O3'-C3'	-6.51	110.44	120.20
6	N	416	U	OP1-P-O3'	-6.51	88.48	108.00
2	J	64	A	P-O3'-C3'	-6.50	110.44	120.20
3	K	262	A	O3'-P-O5'	6.50	113.76	104.00
4	L	673	U	OP1-P-O3'	-6.50	88.48	108.00
1	I	332	A	OP2-P-O3'	6.50	127.51	108.00
5	M	428	U	OP2-P-O3'	6.50	127.50	108.00
1	I	297	A	OP2-P-O3'	6.49	127.48	108.00
3	K	241	A	P-O3'-C3'	-6.49	110.46	120.20
6	N	356	U	OP2-P-O3'	-6.49	88.52	108.00
4	L	457	U	OP2-P-O3'	-6.49	88.53	108.00
6	N	444	U	OP1-P-O3'	-6.49	88.53	108.00
4	L	517	U	OP1-P-O3'	-6.49	88.53	108.00
6	N	325	U	P-O3'-C3'	6.48	129.93	120.20
6	N	362	U	P-O3'-C3'	-6.48	110.47	120.20
2	J	146	A	OP2-P-O3'	6.48	127.45	108.00
3	K	220	A	OP1-P-O3'	6.48	127.44	108.00
4	L	564	U	OP1-P-O3'	-6.48	88.56	108.00
4	L	665	U	OP2-P-O3'	-6.48	88.56	108.00
1	I	200	A	P-O3'-C3'	-6.48	110.48	120.20
2	J	39	A	OP2-P-O3'	6.47	127.42	108.00
5	M	432	U	O3'-P-O5'	6.47	113.70	104.00
6	N	460	U	P-O3'-C3'	6.47	129.90	120.20
3	K	40	A	P-O3'-C3'	-6.46	110.50	120.20
5	M	395	U	OP2-P-O3'	6.46	127.39	108.00
5	M	289	U	P-O3'-C3'	-6.46	110.51	120.20
1	I	284	A	P-O3'-C3'	-6.46	110.52	120.20
4	L	502	U	O3'-P-O5'	6.46	113.69	104.00
5	M	315	U	OP2-P-O3'	-6.46	88.63	108.00
6	N	309	U	OP2-P-O3'	-6.46	88.63	108.00
6	N	386	U	OP1-P-O3'	6.46	127.36	108.00
4	L	501	U	OP2-P-O3'	-6.45	88.64	108.00
4	L	731	U	O3'-P-O5'	-6.45	94.33	104.00
2	J	217	A	OP1-P-O3'	6.44	127.33	108.00
4	L	796	U	P-O3'-C3'	-6.44	110.54	120.20
6	N	383	U	O3'-P-O5'	-6.44	94.33	104.00
4	L	709	U	P-O3'-C3'	-6.44	110.54	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	616	U	O3'-P-O5'	6.44	113.66	104.00
1	I	227	A	OP2-P-O3'	6.44	127.31	108.00
5	M	451	U	O3'-P-O5'	-6.43	94.35	104.00
6	N	527	U	OP2-P-O3'	6.43	127.29	108.00
2	J	4	A	OP1-P-O3'	6.43	127.28	108.00
2	J	221	A	OP2-P-O3'	6.42	127.28	108.00
2	J	174	A	O3'-P-O5'	6.42	113.64	104.00
2	J	44	A	OP2-P-O3'	6.42	127.27	108.00
4	L	494	U	OP2-P-O3'	6.42	127.26	108.00
4	L	794	U	OP1-P-O3'	-6.42	88.75	108.00
2	J	109	A	OP2-P-O3'	-6.42	88.75	108.00
5	M	536	U	OP1-P-O3'	-6.41	88.77	108.00
1	I	164	A	OP1-P-O3'	6.41	127.21	108.00
6	N	416	U	P-O3'-C3'	-6.41	110.59	120.20
4	L	752	U	O3'-P-O5'	6.40	113.61	104.00
6	N	293	U	OP1-P-O3'	6.40	127.21	108.00
4	L	636	U	O3'-P-O5'	-6.40	94.39	104.00
4	L	791	U	O3'-P-O5'	6.40	113.60	104.00
3	K	14	A	O3'-P-O5'	-6.40	94.40	104.00
3	K	82	A	OP2-P-O3'	6.40	127.20	108.00
6	N	462	U	OP2-P-O3'	6.40	127.20	108.00
1	I	107	A	OP1-P-O3'	6.40	127.19	108.00
6	N	385	U	OP1-P-O3'	6.40	127.19	108.00
2	J	239	A	P-O3'-C3'	-6.39	110.61	120.20
3	K	173	A	OP1-P-O3'	-6.39	88.81	108.00
1	I	12	A	OP1-P-O3'	-6.39	88.83	108.00
3	K	128	A	OP2-P-O3'	6.39	127.17	108.00
1	I	311	A	OP2-P-O3'	6.39	127.16	108.00
3	K	219	A	OP1-P-O3'	6.39	127.16	108.00
4	L	659	U	O3'-P-O5'	-6.39	94.42	104.00
1	I	411	A	OP2-P-O3'	-6.38	88.86	108.00
2	J	166	A	OP1-P-O3'	6.38	127.14	108.00
1	I	108	A	O3'-P-O5'	-6.38	94.43	104.00
1	I	405	A	P-O3'-C3'	-6.38	110.63	120.20
2	J	129	A	OP1-P-O3'	-6.38	88.86	108.00
2	J	254	A	OP1-P-O3'	-6.38	88.86	108.00
4	L	737	U	OP2-P-O3'	-6.38	88.87	108.00
5	M	438	U	O3'-P-O5'	-6.38	94.44	104.00
1	I	291	A	OP1-P-O3'	-6.37	88.88	108.00
6	N	437	U	O3'-P-O5'	-6.37	94.44	104.00
5	M	370	U	OP1-P-O3'	6.37	127.10	108.00
5	M	549	U	P-O3'-C3'	6.37	129.75	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	372	A	OP2-P-O3'	6.36	127.09	108.00
6	N	377	U	O3'-P-O5'	6.36	113.54	104.00
3	K	53	A	P-O3'-C3'	-6.36	110.66	120.20
5	M	434	U	O3'-P-O5'	-6.36	94.47	104.00
3	K	217	A	OP1-P-O3'	6.35	127.06	108.00
1	I	110	A	OP2-P-O3'	6.35	127.04	108.00
6	N	511	U	P-O3'-C3'	6.35	129.72	120.20
1	I	92	A	O3'-P-O5'	6.35	113.52	104.00
4	L	774	U	P-O3'-C3'	-6.34	110.68	120.20
4	L	775	U	O3'-P-O5'	6.34	113.51	104.00
5	M	496	U	OP2-P-O3'	-6.34	88.98	108.00
4	L	675	U	OP2-P-O3'	6.33	127.00	108.00
4	L	720	U	O3'-P-O5'	-6.33	94.50	104.00
1	I	148	A	OP1-P-O3'	-6.33	89.01	108.00
5	M	510	U	P-O3'-C3'	-6.33	110.70	120.20
6	N	321	U	OP1-P-O3'	6.33	126.99	108.00
6	N	433	U	P-O3'-C3'	6.33	129.69	120.20
4	L	804	U	OP2-P-O3'	6.33	126.99	108.00
3	K	255	A	P-O3'-C3'	-6.33	110.71	120.20
2	J	23	A	OP1-P-O3'	-6.32	89.04	108.00
4	L	515	U	OP2-P-O3'	6.32	126.96	108.00
4	L	741	U	P-O3'-C3'	-6.32	110.72	120.20
4	L	743	U	OP1-P-O3'	-6.32	89.05	108.00
4	L	668	U	P-O3'-C3'	6.31	129.67	120.20
1	I	9	A	OP1-P-O3'	-6.31	89.07	108.00
2	J	159	A	OP2-P-O3'	6.31	126.92	108.00
6	N	424	U	OP2-P-O3'	6.31	126.92	108.00
1	I	263	A	OP1-P-O3'	-6.30	89.08	108.00
6	N	279	U	O3'-P-O5'	6.30	113.46	104.00
2	J	253	A	OP2-P-O3'	6.30	126.90	108.00
4	L	433	U	OP2-P-O3'	-6.29	89.12	108.00
5	M	508	U	OP1-P-O3'	-6.29	89.13	108.00
3	K	201	A	P-O3'-C3'	6.29	129.63	120.20
2	J	274	A	OP2-P-O3'	-6.29	89.13	108.00
1	I	337	A	P-O3'-C3'	-6.29	110.77	120.20
1	I	400	A	O3'-P-O5'	-6.29	94.57	104.00
4	L	470	U	P-O3'-C3'	-6.28	110.77	120.20
2	J	171	A	OP1-P-O3'	6.28	126.83	108.00
3	K	180	A	OP1-P-O3'	6.28	126.83	108.00
5	M	291	U	OP2-P-O3'	6.28	126.83	108.00
6	N	522	U	O3'-P-O5'	6.28	113.41	104.00
3	K	79	A	OP2-P-O3'	6.27	126.82	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	60	A	P-O3'-C3'	-6.27	110.79	120.20
2	J	158	A	P-O3'-C3'	-6.27	110.79	120.20
2	J	193	A	OP1-P-O3'	-6.27	89.18	108.00
6	N	453	U	P-O3'-C3'	-6.27	110.79	120.20
1	I	147	A	OP1-P-O3'	-6.27	89.19	108.00
3	K	189	A	OP1-P-O3'	6.27	126.81	108.00
6	N	316	U	OP2-P-O3'	6.27	126.81	108.00
1	I	178	A	P-O3'-C3'	-6.27	110.80	120.20
2	J	138	A	O3'-P-O5'	6.27	113.40	104.00
2	J	195	A	P-O3'-C3'	-6.27	110.80	120.20
5	M	300	U	OP1-P-O3'	-6.27	89.19	108.00
5	M	331	U	OP1-P-O3'	-6.27	89.19	108.00
1	I	38	A	OP2-P-O3'	-6.27	89.20	108.00
2	J	36	A	O3'-P-O5'	-6.27	94.60	104.00
3	K	101	A	OP1-P-O3'	-6.27	89.20	108.00
4	L	786	U	P-O3'-C3'	-6.27	110.80	120.20
2	J	219	A	O3'-P-O5'	6.26	113.39	104.00
2	J	75	A	OP1-P-O3'	-6.25	89.24	108.00
3	K	33	A	O3'-P-O5'	6.25	113.38	104.00
4	L	573	U	P-O3'-C3'	-6.25	110.82	120.20
2	J	169	A	OP2-P-O3'	-6.25	89.25	108.00
3	K	216	A	OP1-P-O3'	6.25	126.75	108.00
3	K	71	A	P-O3'-C3'	6.25	129.57	120.20
6	N	411	U	OP1-P-O3'	-6.25	89.25	108.00
1	I	179	A	OP2-P-O3'	6.25	126.74	108.00
4	L	801	U	P-O3'-C3'	-6.25	110.83	120.20
6	N	323	U	OP2-P-O3'	6.25	126.74	108.00
5	M	330	U	OP2-P-O3'	-6.24	89.28	108.00
5	M	437	U	OP1-P-O3'	-6.24	89.28	108.00
4	L	462	U	OP1-P-O3'	6.24	126.71	108.00
1	I	115	A	P-O3'-C3'	-6.23	110.85	120.20
1	I	347	A	P-O3'-C3'	-6.23	110.85	120.20
2	J	235	A	OP1-P-O3'	-6.23	89.30	108.00
6	N	419	U	OP2-P-O3'	-6.23	89.32	108.00
4	L	504	U	OP2-P-O3'	6.23	126.68	108.00
1	I	400	A	OP2-P-O3'	-6.22	89.33	108.00
3	K	174	A	OP1-P-O3'	-6.22	89.33	108.00
1	I	209	A	P-O3'-C3'	-6.22	110.87	120.20
3	K	66	A	O3'-P-O5'	6.22	113.33	104.00
6	N	370	U	P-O3'-C3'	-6.22	110.87	120.20
6	N	280	U	OP2-P-O3'	6.21	126.64	108.00
4	L	658	U	OP1-P-O3'	-6.21	89.36	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	217	A	O3'-P-O5'	-6.21	94.68	104.00
2	J	221	A	OP1-P-O3'	-6.21	89.37	108.00
4	L	753	U	O3'-P-O5'	-6.21	94.69	104.00
6	N	412	U	O3'-P-O5'	6.21	113.31	104.00
3	K	58	A	OP2-P-O3'	-6.21	89.38	108.00
3	K	77	A	P-O3'-C3'	-6.21	110.89	120.20
4	L	610	U	OP2-P-O3'	6.21	126.61	108.00
1	I	162	A	OP2-P-O3'	6.20	126.61	108.00
5	M	301	U	P-O3'-C3'	-6.20	110.90	120.20
6	N	421	U	O3'-P-O5'	-6.20	94.70	104.00
2	J	201	A	OP2-P-O3'	6.20	126.60	108.00
6	N	428	U	OP1-P-O3'	-6.20	89.41	108.00
3	K	97	A	OP1-P-O3'	-6.19	89.42	108.00
5	M	434	U	OP2-P-O3'	6.19	126.58	108.00
6	N	305	U	OP1-P-O3'	6.19	126.57	108.00
6	N	372	U	P-O3'-C3'	-6.19	110.91	120.20
3	K	188	A	P-O3'-C3'	6.18	129.47	120.20
6	N	420	U	O3'-P-O5'	6.18	113.27	104.00
5	M	311	U	P-O3'-C3'	-6.17	110.94	120.20
6	N	341	U	OP2-P-O3'	-6.17	89.49	108.00
1	I	52	A	OP2-P-O3'	6.17	126.50	108.00
3	K	161	A	OP1-P-O3'	-6.17	89.50	108.00
3	K	139	A	OP2-P-O3'	-6.16	89.52	108.00
2	J	227	A	O3'-P-O5'	6.16	113.24	104.00
6	N	423	U	P-O3'-C3'	-6.16	110.97	120.20
2	J	260	A	OP2-P-O3'	6.16	126.47	108.00
5	M	356	U	P-O3'-C3'	-6.16	110.97	120.20
5	M	425	U	OP1-P-O3'	-6.15	89.55	108.00
1	I	147	A	O3'-P-O5'	-6.15	94.78	104.00
4	L	482	U	OP1-P-O3'	-6.15	89.56	108.00
1	I	358	A	P-O3'-C3'	-6.14	110.99	120.20
3	K	148	A	P-O3'-C3'	6.14	129.41	120.20
5	M	351	U	OP2-P-O3'	-6.14	89.58	108.00
1	I	185	A	O3'-P-O5'	6.13	113.20	104.00
2	J	13	A	OP1-P-O3'	-6.13	89.60	108.00
3	K	137	A	O3'-P-O5'	6.13	113.20	104.00
1	I	192	A	OP1-P-O3'	-6.13	89.61	108.00
2	J	11	A	OP1-P-O3'	-6.13	89.61	108.00
5	M	409	U	OP1-P-O3'	-6.12	89.63	108.00
5	M	429	U	OP2-P-O3'	6.12	126.37	108.00
5	M	529	U	OP1-P-O3'	-6.12	89.63	108.00
4	L	749	U	OP1-P-O3'	-6.12	89.64	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	174	A	O3'-P-O5'	6.12	113.18	104.00
3	K	245	A	OP2-P-O3'	-6.11	89.66	108.00
4	L	466	U	P-O3'-C3'	-6.11	111.03	120.20
6	N	504	U	P-O3'-C3'	-6.11	111.04	120.20
1	I	256	A	OP2-P-O3'	6.11	126.32	108.00
1	I	288	A	P-O3'-C3'	-6.10	111.05	120.20
3	K	76	A	P-O3'-C3'	-6.10	111.04	120.20
3	K	215	A	OP1-P-O3'	6.09	126.28	108.00
4	L	640	U	P-O3'-C3'	-6.09	111.06	120.20
1	I	149	A	P-O3'-C3'	-6.09	111.07	120.20
4	L	469	U	O3'-P-O5'	6.09	113.13	104.00
3	K	151	A	OP2-P-O3'	-6.09	89.74	108.00
5	M	331	U	OP2-P-O3'	6.09	126.26	108.00
5	M	376	U	OP1-P-O3'	-6.09	89.74	108.00
6	N	366	U	O3'-P-O5'	6.08	113.12	104.00
2	J	78	A	O3'-P-O5'	6.08	113.12	104.00
3	K	149	A	P-O3'-C3'	-6.08	111.09	120.20
3	K	42	A	OP2-P-O3'	6.07	126.21	108.00
1	I	207	A	OP2-P-O3'	6.07	126.21	108.00
2	J	180	A	P-O3'-C3'	-6.06	111.11	120.20
5	M	304	U	OP1-P-O3'	6.06	126.19	108.00
4	L	552	U	OP1-P-O3'	6.06	126.18	108.00
1	I	350	A	P-O3'-C3'	-6.06	111.11	120.20
3	K	65	A	OP2-P-O3'	6.06	126.17	108.00
1	I	381	A	P-O3'-C3'	6.06	129.28	120.20
1	I	245	A	P-O3'-C3'	-6.05	111.12	120.20
2	J	104	A	P-O3'-C3'	-6.05	111.12	120.20
6	N	385	U	OP2-P-O3'	-6.05	89.83	108.00
6	N	351	U	OP2-P-O3'	6.05	126.16	108.00
2	J	126	A	OP1-P-O3'	-6.05	89.85	108.00
4	L	715	U	P-O3'-C3'	6.05	129.28	120.20
5	M	460	U	P-O3'-C3'	-6.05	111.13	120.20
2	J	262	A	O3'-P-O5'	-6.04	94.94	104.00
5	M	509	U	OP2-P-O3'	6.04	126.13	108.00
1	I	140	A	P-O3'-C3'	6.04	129.26	120.20
4	L	423	U	OP1-P-O3'	6.03	126.09	108.00
3	K	40	A	OP2-P-O3'	-6.02	89.93	108.00
3	K	19	A	OP2-P-O3'	-6.02	89.94	108.00
6	N	521	U	O3'-P-O5'	-6.02	94.97	104.00
3	K	133	A	OP1-P-O3'	-6.02	89.95	108.00
3	K	149	A	O3'-P-O5'	6.02	113.03	104.00
1	I	341	A	O3'-P-O5'	-6.01	94.98	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	332	A	OP1-P-O3'	-6.00	89.98	108.00
6	N	284	U	O3'-P-O5'	6.00	113.01	104.00
5	M	346	U	OP1-P-O3'	-6.00	90.00	108.00
4	L	536	U	OP2-P-O3'	6.00	126.00	108.00
5	M	282	U	OP2-P-O3'	-6.00	90.00	108.00
5	M	471	U	OP2-P-O3'	-6.00	90.01	108.00
4	L	559	U	O3'-P-O5'	-6.00	95.01	104.00
4	L	717	U	OP2-P-O3'	-6.00	90.01	108.00
4	L	800	U	O3'-P-O5'	-6.00	95.01	104.00
1	I	387	A	OP2-P-O3'	5.99	125.97	108.00
6	N	472	U	O3'-P-O5'	-5.99	95.02	104.00
4	L	594	U	OP2-P-O3'	5.98	125.95	108.00
5	M	445	U	OP2-P-O3'	-5.98	90.05	108.00
3	K	115	A	P-O3'-C3'	-5.98	111.23	120.20
1	I	353	A	OP1-P-O3'	-5.98	90.06	108.00
1	I	257	A	O3'-P-O5'	5.97	112.96	104.00
5	M	435	U	OP1-P-O3'	5.97	125.92	108.00
4	L	436	U	OP2-P-O3'	5.97	125.91	108.00
6	N	479	U	P-O3'-C3'	-5.97	111.25	120.20
1	I	56	A	P-O3'-C3'	-5.96	111.25	120.20
3	K	143	A	P-O3'-C3'	5.96	129.15	120.20
4	L	565	U	OP1-P-O3'	-5.96	90.11	108.00
4	L	437	U	P-O3'-C3'	5.96	129.14	120.20
5	M	350	U	O3'-P-O5'	5.96	112.94	104.00
6	N	403	U	O3'-P-O5'	5.96	112.94	104.00
3	K	170	A	OP2-P-O3'	5.96	125.88	108.00
2	J	84	A	O3'-P-O5'	-5.96	95.07	104.00
6	N	296	U	O3'-P-O5'	5.96	112.94	104.00
5	M	443	U	P-O3'-C3'	-5.95	111.27	120.20
2	J	233	A	OP2-P-O3'	5.95	125.86	108.00
1	I	87	A	OP2-P-O3'	5.95	125.85	108.00
2	J	230	A	P-O3'-C3'	-5.95	111.28	120.20
4	L	515	U	P-O3'-C3'	-5.94	111.28	120.20
4	L	529	U	OP1-P-O3'	-5.94	90.17	108.00
6	N	430	U	OP1-P-O3'	-5.94	90.17	108.00
6	N	503	U	OP2-P-O3'	-5.94	90.18	108.00
2	J	201	A	OP1-P-O3'	-5.94	90.19	108.00
4	L	432	U	P-O3'-C3'	5.94	129.11	120.20
4	L	694	U	O3'-P-O5'	-5.94	95.09	104.00
4	L	707	U	OP1-P-O3'	-5.94	90.19	108.00
2	J	4	A	O3'-P-O5'	5.93	112.90	104.00
4	L	552	U	O3'-P-O5'	-5.93	95.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	458	U	OP1-P-O3'	5.93	125.80	108.00
4	L	745	U	P-O3'-C3'	-5.93	111.31	120.20
6	N	363	U	OP2-P-O3'	-5.93	90.22	108.00
2	J	59	A	OP1-P-O3'	-5.93	90.22	108.00
2	J	113	A	O3'-P-O5'	5.92	112.89	104.00
4	L	591	U	P-O3'-C3'	-5.92	111.31	120.20
6	N	362	U	OP2-P-O3'	5.92	125.77	108.00
6	N	528	U	O3'-P-O5'	-5.92	95.11	104.00
2	J	123	A	P-O3'-C3'	-5.92	111.32	120.20
5	M	461	U	O3'-P-O5'	5.92	112.88	104.00
2	J	210	A	OP1-P-O3'	-5.92	90.24	108.00
4	L	433	U	OP1-P-O3'	5.92	125.76	108.00
4	L	725	U	P-O3'-C3'	-5.91	111.33	120.20
5	M	367	U	OP2-P-O3'	5.91	125.74	108.00
4	L	511	U	P-O3'-C3'	5.91	129.07	120.20
3	K	254	A	OP1-P-O3'	-5.91	90.27	108.00
4	L	455	U	OP2-P-O3'	-5.91	90.28	108.00
1	I	388	A	OP2-P-O3'	5.91	125.72	108.00
5	M	293	U	O3'-P-O5'	5.90	112.86	104.00
1	I	370	A	OP2-P-O3'	-5.90	90.31	108.00
3	K	195	A	OP1-P-O3'	5.90	125.69	108.00
1	I	300	A	P-O3'-C3'	-5.89	111.36	120.20
5	M	444	U	P-O3'-C3'	-5.89	111.36	120.20
4	L	483	U	OP1-P-O3'	-5.89	90.33	108.00
2	J	229	A	P-O3'-C3'	-5.89	111.37	120.20
4	L	792	U	O3'-P-O5'	5.88	112.83	104.00
4	L	612	U	OP1-P-O3'	-5.88	90.36	108.00
6	N	349	U	OP1-P-O3'	5.88	125.64	108.00
1	I	83	A	OP1-P-O3'	-5.88	90.37	108.00
2	J	219	A	OP2-P-O3'	5.88	125.63	108.00
4	L	618	U	O3'-P-O5'	5.87	112.81	104.00
4	L	690	U	OP2-P-O3'	-5.87	90.38	108.00
3	K	75	A	OP2-P-O3'	5.87	125.62	108.00
4	L	710	U	OP2-P-O3'	-5.87	90.38	108.00
4	L	550	U	OP1-P-O3'	-5.87	90.39	108.00
3	K	105	A	OP2-P-O3'	5.87	125.59	108.00
3	K	206	A	OP2-P-O3'	5.87	125.60	108.00
1	I	109	A	P-O3'-C3'	5.86	128.99	120.20
4	L	545	U	P-O3'-C3'	-5.86	111.41	120.20
1	I	302	A	OP1-P-O3'	-5.86	90.41	108.00
5	M	284	U	P-O3'-C3'	-5.86	111.42	120.20
6	N	310	U	OP2-P-O3'	5.86	125.57	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	329	U	OP1-P-O3'	5.86	125.57	108.00
6	N	518	U	P-O3'-C3'	5.85	128.97	120.20
3	K	113	A	OP2-P-O3'	5.85	125.54	108.00
3	K	50	A	P-O3'-C3'	5.85	128.97	120.20
3	K	52	A	OP2-P-O3'	-5.83	90.50	108.00
4	L	585	U	OP1-P-O3'	-5.83	90.50	108.00
1	I	130	A	OP1-P-O3'	-5.83	90.52	108.00
1	I	305	A	OP1-P-O3'	-5.83	90.51	108.00
3	K	92	A	O3'-P-O5'	-5.82	95.27	104.00
4	L	560	U	OP1-P-O3'	-5.82	90.54	108.00
3	K	98	A	OP1-P-O3'	-5.82	90.54	108.00
3	K	249	A	OP1-P-O3'	-5.82	90.54	108.00
3	K	251	A	OP1-P-O3'	-5.82	90.54	108.00
6	N	347	U	OP2-P-O3'	-5.82	90.54	108.00
1	I	361	A	OP2-P-O3'	5.82	125.45	108.00
5	M	455	U	OP1-P-O3'	-5.81	90.56	108.00
2	J	271	A	OP2-P-O3'	-5.81	90.56	108.00
4	L	799	U	OP2-P-O3'	-5.81	90.56	108.00
2	J	128	A	O3'-P-O5'	-5.81	95.28	104.00
3	K	234	A	O3'-P-O5'	5.81	112.71	104.00
5	M	371	U	O3'-P-O5'	-5.81	95.29	104.00
1	I	51	A	OP1-P-O3'	-5.80	90.59	108.00
4	L	463	U	OP2-P-O3'	5.80	125.42	108.00
4	L	775	U	OP2-P-O3'	5.80	125.41	108.00
1	I	223	A	OP2-P-O3'	5.80	125.41	108.00
5	M	398	U	O3'-P-O5'	5.80	112.70	104.00
6	N	313	U	OP1-P-O3'	5.80	125.40	108.00
6	N	355	U	OP2-P-O3'	-5.80	90.61	108.00
1	I	343	A	OP2-P-O3'	5.79	125.38	108.00
2	J	168	A	OP1-P-O3'	5.79	125.38	108.00
4	L	623	U	O3'-P-O5'	5.79	112.69	104.00
3	K	196	A	P-O3'-C3'	5.79	128.89	120.20
1	I	39	A	P-O3'-C3'	-5.79	111.52	120.20
3	K	30	A	P-O3'-C3'	5.79	128.88	120.20
1	I	7	A	P-O3'-C3'	-5.78	111.52	120.20
1	I	248	A	OP1-P-O3'	-5.78	90.66	108.00
3	K	218	A	P-O3'-C3'	5.78	128.87	120.20
4	L	513	U	OP1-P-O3'	-5.78	90.65	108.00
5	M	481	U	OP1-P-O3'	5.78	125.34	108.00
1	I	33	A	O3'-P-O5'	-5.78	95.33	104.00
4	L	545	U	OP1-P-O3'	-5.78	90.67	108.00
4	L	633	U	P-O3'-C3'	5.78	128.87	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	272	A	OP1-P-O3'	5.77	125.32	108.00
1	I	336	A	OP2-P-O3'	5.77	125.31	108.00
4	L	589	U	OP1-P-O3'	-5.77	90.69	108.00
3	K	114	A	P-O3'-C3'	5.77	128.85	120.20
1	I	190	A	OP2-P-O3'	5.77	125.30	108.00
4	L	590	U	OP2-P-O3'	5.77	125.30	108.00
4	L	782	U	OP2-P-O3'	-5.76	90.72	108.00
2	J	178	A	OP1-P-O3'	-5.76	90.72	108.00
2	J	117	A	OP1-P-O3'	5.76	125.27	108.00
4	L	607	U	O3'-P-O5'	5.76	112.64	104.00
2	J	76	A	P-O3'-C3'	-5.75	111.57	120.20
4	L	545	U	OP2-P-O3'	5.75	125.26	108.00
4	L	575	U	OP2-P-O3'	5.75	125.26	108.00
3	K	257	A	O3'-P-O5'	-5.75	95.37	104.00
1	I	344	A	OP1-P-O3'	-5.75	90.76	108.00
3	K	262	A	OP2-P-O3'	-5.75	90.76	108.00
6	N	454	U	OP1-P-O3'	-5.75	90.75	108.00
2	J	178	A	OP2-P-O3'	5.74	125.23	108.00
3	K	156	A	OP1-P-O3'	-5.74	90.77	108.00
4	L	439	U	O3'-P-O5'	-5.74	95.38	104.00
3	K	224	A	OP1-P-O3'	5.74	125.22	108.00
5	M	306	U	OP2-P-O3'	5.74	125.21	108.00
4	L	606	U	OP2-P-O3'	5.74	125.21	108.00
6	N	333	U	P-O3'-C3'	-5.74	111.60	120.20
1	I	307	A	OP2-P-O3'	5.73	125.19	108.00
1	I	334	A	OP1-P-O3'	-5.73	90.81	108.00
3	K	102	A	OP1-P-O3'	-5.73	90.81	108.00
5	M	520	U	OP1-P-O3'	-5.73	90.81	108.00
4	L	627	U	OP1-P-O3'	-5.72	90.84	108.00
1	I	117	A	OP1-P-O3'	-5.72	90.85	108.00
2	J	51	A	OP2-P-O3'	5.72	125.15	108.00
3	K	109	A	OP1-P-O3'	-5.72	90.85	108.00
5	M	317	U	OP2-P-O3'	-5.72	90.85	108.00
2	J	241	A	O3'-P-O5'	5.71	112.57	104.00
2	J	252	A	OP1-P-O3'	-5.71	90.86	108.00
4	L	489	U	OP1-P-O3'	5.71	125.14	108.00
4	L	698	U	P-O3'-C3'	-5.71	111.63	120.20
1	I	79	A	OP2-P-O3'	5.71	125.12	108.00
4	L	441	U	P-O3'-C3'	5.71	128.76	120.20
4	L	570	U	O3'-P-O5'	5.71	112.56	104.00
6	N	483	U	OP1-P-O3'	5.71	125.12	108.00
3	K	250	A	OP2-P-O3'	5.70	125.11	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	499	U	O3'-P-O5'	-5.70	95.45	104.00
2	J	38	A	OP1-P-O3'	-5.70	90.90	108.00
5	M	344	U	O3'-P-O5'	5.70	112.55	104.00
4	L	502	U	OP2-P-O3'	-5.70	90.91	108.00
1	I	125	A	P-O3'-C3'	-5.70	111.66	120.20
4	L	677	U	OP2-P-O3'	5.70	125.08	108.00
1	I	337	A	O3'-P-O5'	-5.69	95.46	104.00
3	K	243	A	OP2-P-O3'	-5.69	90.93	108.00
4	L	558	U	OP2-P-O3'	5.69	125.07	108.00
5	M	407	U	OP2-P-O3'	-5.69	90.93	108.00
4	L	619	U	P-O3'-C3'	-5.69	111.67	120.20
1	I	36	A	OP1-P-O3'	-5.69	90.94	108.00
1	I	238	A	OP1-P-O3'	5.68	125.05	108.00
3	K	85	A	OP1-P-O3'	-5.68	90.95	108.00
3	K	91	A	OP2-P-O3'	5.68	125.04	108.00
5	M	278	U	O3'-P-O5'	5.68	112.52	104.00
3	K	229	A	P-O3'-C3'	5.68	128.72	120.20
5	M	482	U	OP1-P-O3'	-5.67	90.97	108.00
6	N	272	U	OP1-P-O3'	5.67	125.03	108.00
1	I	257	A	OP2-P-O3'	5.67	125.02	108.00
2	J	18	A	OP2-P-O3'	-5.67	90.99	108.00
5	M	440	U	OP2-P-O3'	-5.67	90.99	108.00
1	I	42	A	OP1-P-O3'	-5.67	90.99	108.00
4	L	506	U	OP2-P-O3'	5.67	125.01	108.00
2	J	191	A	OP2-P-O3'	5.67	125.00	108.00
5	M	381	U	P-O3'-C3'	5.67	128.70	120.20
4	L	531	U	O3'-P-O5'	-5.66	95.50	104.00
2	J	41	A	OP1-P-O3'	5.66	124.99	108.00
6	N	314	U	P-O3'-C3'	-5.66	111.71	120.20
1	I	258	A	OP2-P-O3'	5.66	124.98	108.00
1	I	155	A	P-O3'-C3'	5.66	128.69	120.20
4	L	684	U	P-O3'-C3'	5.66	128.69	120.20
6	N	304	U	OP2-P-O3'	-5.66	91.02	108.00
6	N	394	U	OP1-P-O3'	-5.66	91.02	108.00
2	J	161	A	OP1-P-O3'	-5.66	91.04	108.00
2	J	249	A	OP1-P-O3'	-5.66	91.04	108.00
6	N	330	U	P-O3'-C3'	-5.66	111.72	120.20
1	I	166	A	OP1-P-O3'	-5.65	91.04	108.00
1	I	344	A	OP2-P-O3'	-5.65	91.05	108.00
4	L	533	U	OP1-P-O3'	-5.65	91.05	108.00
4	L	684	U	O3'-P-O5'	5.65	112.48	104.00
5	M	549	U	O3'-P-O5'	5.65	112.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	129	A	OP2-P-O3'	5.65	124.94	108.00
3	K	238	A	P-O3'-C3'	5.65	128.67	120.20
1	I	122	A	OP2-P-O3'	5.64	124.94	108.00
1	I	222	A	OP1-P-O3'	-5.64	91.07	108.00
6	N	356	U	P-O3'-C3'	-5.64	111.73	120.20
1	I	196	A	OP1-P-O3'	-5.64	91.08	108.00
5	M	370	U	OP2-P-O3'	-5.64	91.09	108.00
4	L	796	U	OP2-P-O3'	-5.63	91.11	108.00
1	I	231	A	OP1-P-O3'	-5.63	91.11	108.00
5	M	284	U	OP2-P-O3'	-5.63	91.11	108.00
3	K	130	A	OP1-P-O3'	-5.63	91.11	108.00
5	M	504	U	OP1-P-O3'	-5.63	91.11	108.00
6	N	480	U	O3'-P-O5'	-5.62	95.56	104.00
3	K	202	A	OP1-P-O3'	5.62	124.87	108.00
6	N	422	U	OP2-P-O3'	5.62	124.87	108.00
6	N	283	U	O3'-P-O5'	5.62	112.43	104.00
4	L	733	U	OP1-P-O3'	-5.62	91.14	108.00
2	J	77	A	P-O3'-C3'	-5.62	111.78	120.20
1	I	195	A	OP1-P-O3'	-5.61	91.16	108.00
1	I	285	A	OP1-P-O3'	-5.61	91.16	108.00
4	L	608	U	P-O3'-C3'	-5.61	111.78	120.20
4	L	739	U	OP1-P-O3'	-5.61	91.17	108.00
5	M	476	U	OP2-P-O3'	5.61	124.83	108.00
5	M	494	U	OP1-P-O3'	-5.61	91.17	108.00
6	N	476	U	OP1-P-O3'	-5.61	91.17	108.00
6	N	385	U	P-O3'-C3'	5.61	128.61	120.20
5	M	287	U	OP2-P-O3'	5.61	124.83	108.00
2	J	8	A	O3'-P-O5'	-5.60	95.60	104.00
2	J	171	A	O3'-P-O5'	5.60	112.40	104.00
3	K	125	A	O3'-P-O5'	5.60	112.40	104.00
6	N	452	U	O3'-P-O5'	-5.60	95.60	104.00
6	N	510	U	P-O3'-C3'	5.60	128.60	120.20
4	L	429	U	OP1-P-O3'	5.60	124.79	108.00
1	I	99	A	O3'-P-O5'	-5.59	95.61	104.00
3	K	63	A	OP2-P-O3'	-5.59	91.23	108.00
6	N	380	U	OP2-P-O3'	5.59	124.76	108.00
1	I	80	A	OP1-P-O3'	-5.59	91.24	108.00
3	K	181	A	OP1-P-O3'	5.59	124.76	108.00
2	J	91	A	OP1-P-O3'	-5.58	91.26	108.00
3	K	242	A	O3'-P-O5'	5.58	112.37	104.00
5	M	312	U	OP2-P-O3'	-5.58	91.27	108.00
3	K	72	A	P-O3'-C3'	-5.58	111.83	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	60	A	P-O3'-C3'	-5.57	111.84	120.20
5	M	380	U	OP1-P-O3'	5.57	124.72	108.00
5	M	386	U	OP1-P-O3'	5.57	124.72	108.00
3	K	176	A	P-O3'-C3'	-5.57	111.84	120.20
1	I	3	A	P-O3'-C3'	5.57	128.55	120.20
1	I	244	A	OP2-P-O3'	-5.57	91.30	108.00
1	I	311	A	OP1-P-O3'	-5.57	91.30	108.00
3	K	56	A	P-O3'-C3'	-5.56	111.86	120.20
6	N	522	U	OP2-P-O3'	-5.56	91.33	108.00
5	M	291	U	O3'-P-O5'	-5.55	95.67	104.00
5	M	536	U	O3'-P-O5'	-5.55	95.67	104.00
2	J	154	A	P-O3'-C3'	-5.55	111.88	120.20
1	I	409	A	OP1-P-O3'	5.55	124.64	108.00
4	L	484	U	OP1-P-O3'	-5.55	91.36	108.00
5	M	388	U	OP2-P-O3'	-5.54	91.36	108.00
2	J	140	A	OP2-P-O3'	5.54	124.63	108.00
2	J	31	A	P-O3'-C3'	-5.54	111.89	120.20
5	M	428	U	O3'-P-O5'	-5.54	95.69	104.00
2	J	264	A	OP2-P-O3'	5.54	124.61	108.00
3	K	152	A	OP1-P-O3'	5.54	124.61	108.00
2	J	57	A	OP2-P-O3'	-5.54	91.39	108.00
3	K	231	A	P-O3'-C3'	-5.54	111.89	120.20
1	I	187	A	OP2-P-O3'	5.53	124.60	108.00
1	I	85	A	OP1-P-O3'	-5.53	91.41	108.00
1	I	351	A	P-O3'-C3'	5.53	128.49	120.20
6	N	297	U	P-O3'-C3'	-5.53	111.91	120.20
2	J	218	A	OP2-P-O3'	5.53	124.58	108.00
1	I	275	A	P-O3'-C3'	5.52	128.49	120.20
5	M	375	U	P-O3'-C3'	-5.52	111.91	120.20
2	J	1	A	O3'-P-O5'	5.52	112.28	104.00
4	L	543	U	OP1-P-O3'	5.52	124.57	108.00
5	M	446	U	OP2-P-O3'	-5.52	91.44	108.00
4	L	612	U	OP2-P-O3'	5.52	124.56	108.00
6	N	445	U	P-O3'-C3'	-5.52	111.92	120.20
1	I	121	A	O3'-P-O5'	5.52	112.28	104.00
6	N	427	U	OP1-P-O3'	-5.52	91.45	108.00
2	J	209	A	OP1-P-O3'	-5.51	91.46	108.00
3	K	256	A	OP2-P-O3'	5.51	124.54	108.00
1	I	320	A	O3'-P-O5'	5.51	112.27	104.00
2	J	152	A	OP1-P-O3'	-5.51	91.47	108.00
6	N	466	U	O3'-P-O5'	-5.51	95.74	104.00
6	N	378	U	OP2-P-O3'	-5.50	91.49	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	N	337	U	P-O3'-C3'	5.50	128.46	120.20
2	J	26	A	OP1-P-O3'	-5.50	91.50	108.00
2	J	213	A	P-O3'-C3'	-5.49	111.96	120.20
5	M	396	U	OP1-P-O3'	-5.49	91.52	108.00
3	K	47	A	OP1-P-O3'	5.49	124.48	108.00
2	J	46	A	OP1-P-O3'	-5.49	91.54	108.00
3	K	29	A	P-O3'-C3'	5.49	128.43	120.20
3	K	121	A	OP1-P-O3'	-5.49	91.54	108.00
5	M	492	U	O3'-P-O5'	5.48	112.22	104.00
3	K	244	A	P-O3'-C3'	5.48	128.42	120.20
4	L	557	U	OP1-P-O3'	-5.48	91.57	108.00
2	J	12	A	OP2-P-O3'	5.47	124.42	108.00
2	J	26	A	OP2-P-O3'	5.47	124.42	108.00
1	I	273	A	OP1-P-O3'	-5.47	91.59	108.00
1	I	71	A	OP1-P-O3'	-5.47	91.59	108.00
4	L	479	U	OP1-P-O3'	-5.47	91.59	108.00
1	I	284	A	OP2-P-O3'	5.47	124.40	108.00
1	I	16	A	OP1-P-O3'	-5.46	91.61	108.00
1	I	296	A	OP1-P-O3'	-5.46	91.61	108.00
5	M	501	U	OP1-P-O3'	5.46	124.40	108.00
6	N	272	U	O3'-P-O5'	5.46	112.20	104.00
2	J	245	A	OP2-P-O3'	5.46	124.37	108.00
1	I	33	A	OP2-P-O3'	5.45	124.36	108.00
1	I	365	A	OP2-P-O3'	-5.45	91.65	108.00
2	J	39	A	O3'-P-O5'	-5.45	95.83	104.00
4	L	750	U	OP1-P-O3'	5.44	124.33	108.00
4	L	621	U	O3'-P-O5'	5.44	112.16	104.00
5	M	469	U	OP1-P-O3'	5.44	124.33	108.00
1	I	324	A	OP1-P-O3'	-5.44	91.68	108.00
4	L	605	U	OP1-P-O3'	-5.44	91.69	108.00
4	L	713	U	OP1-P-O3'	-5.44	91.69	108.00
6	N	463	U	OP1-P-O3'	-5.43	91.70	108.00
2	J	133	A	OP1-P-O3'	-5.43	91.70	108.00
3	K	88	A	OP2-P-O3'	-5.43	91.70	108.00
4	L	820	U	OP2-P-O3'	-5.43	91.71	108.00
1	I	254	A	OP1-P-O3'	-5.43	91.71	108.00
1	I	391	A	P-O3'-C3'	5.42	128.34	120.20
5	M	521	U	OP2-P-O3'	5.42	124.28	108.00
4	L	728	U	P-O3'-C3'	5.42	128.33	120.20
2	J	155	A	O3'-P-O5'	-5.42	95.87	104.00
5	M	339	U	OP1-P-O3'	-5.41	91.76	108.00
1	I	81	A	OP1-P-O3'	-5.41	91.77	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	132	A	OP1-P-O3'	-5.41	91.77	108.00
4	L	621	U	P-O3'-C3'	-5.41	112.08	120.20
3	K	136	A	OP2-P-O3'	5.41	124.23	108.00
4	L	562	U	P-O3'-C3'	-5.41	112.09	120.20
5	M	322	U	OP1-P-O3'	-5.41	91.77	108.00
6	N	278	U	O3'-P-O5'	-5.41	95.89	104.00
4	L	459	U	OP1-P-O3'	-5.41	91.78	108.00
3	K	220	A	O3'-P-O5'	-5.40	95.90	104.00
3	K	195	A	O3'-P-O5'	-5.40	95.90	104.00
6	N	452	U	OP2-P-O3'	5.40	124.20	108.00
2	J	75	A	OP2-P-O3'	5.40	124.19	108.00
6	N	289	U	P-O3'-C3'	-5.40	112.11	120.20
6	N	475	U	P-O3'-C3'	-5.39	112.11	120.20
1	I	101	A	O3'-P-O5'	5.39	112.08	104.00
2	J	126	A	OP2-P-O3'	5.39	124.16	108.00
1	I	237	A	P-O3'-C3'	-5.38	112.13	120.20
2	J	48	A	OP1-P-O3'	-5.38	91.86	108.00
1	I	335	A	OP1-P-O3'	5.38	124.13	108.00
3	K	123	A	P-O3'-C3'	-5.37	112.14	120.20
4	L	574	U	OP1-P-O3'	5.37	124.12	108.00
3	K	200	A	P-O3'-C3'	5.37	128.26	120.20
1	I	48	A	OP1-P-O3'	-5.37	91.89	108.00
3	K	18	A	OP1-P-O3'	5.37	124.10	108.00
4	L	624	U	P-O3'-C3'	-5.37	112.15	120.20
4	L	683	U	P-O3'-C3'	5.37	128.25	120.20
1	I	215	A	O3'-P-O5'	5.36	112.05	104.00
1	I	310	A	OP1-P-O3'	-5.36	91.92	108.00
3	K	144	A	OP1-P-O3'	5.36	124.08	108.00
6	N	318	U	P-O3'-C3'	5.36	128.24	120.20
2	J	246	A	P-O3'-C3'	-5.36	112.16	120.20
4	L	486	U	O3'-P-O5'	-5.36	95.96	104.00
5	M	378	U	P-O3'-C3'	5.36	128.24	120.20
1	I	272	A	P-O3'-C3'	-5.35	112.17	120.20
4	L	642	U	O3'-P-O5'	5.35	112.03	104.00
5	M	496	U	OP1-P-O3'	-5.35	91.94	108.00
6	N	350	U	O3'-P-O5'	-5.35	95.97	104.00
1	I	123	A	O3'-P-O5'	-5.35	95.98	104.00
4	L	804	U	P-O3'-C3'	-5.35	112.18	120.20
4	L	823	U	P-O3'-C3'	5.35	128.22	120.20
6	N	300	U	P-O3'-C3'	5.35	128.22	120.20
3	K	94	A	OP2-P-O3'	5.34	124.03	108.00
4	L	576	U	O3'-P-O5'	-5.34	95.98	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	25	A	OP1-P-O3'	-5.34	91.98	108.00
3	K	58	A	OP1-P-O3'	5.34	124.02	108.00
2	J	64	A	OP2-P-O3'	5.34	124.02	108.00
3	K	107	A	OP2-P-O3'	5.33	124.00	108.00
4	L	762	U	OP2-P-O3'	-5.33	92.00	108.00
4	L	781	U	P-O3'-C3'	-5.33	112.21	120.20
1	I	372	A	OP1-P-O3'	-5.33	92.02	108.00
4	L	689	U	OP2-P-O3'	-5.33	92.02	108.00
2	J	137	A	OP2-P-O3'	-5.33	92.02	108.00
4	L	596	U	OP2-P-O3'	5.32	123.95	108.00
4	L	748	U	O3'-P-O5'	5.32	111.98	104.00
5	M	328	U	OP1-P-O3'	-5.32	92.05	108.00
2	J	273	A	O3'-P-O5'	5.32	111.97	104.00
1	I	166	A	OP2-P-O3'	5.31	123.94	108.00
5	M	528	U	OP1-P-O3'	-5.31	92.06	108.00
2	J	58	A	OP2-P-O3'	5.31	123.94	108.00
4	L	799	U	P-O3'-C3'	-5.31	112.23	120.20
5	M	348	U	OP2-P-O3'	5.31	123.93	108.00
4	L	535	U	OP2-P-O3'	5.31	123.92	108.00
5	M	521	U	O3'-P-O5'	-5.31	96.04	104.00
3	K	125	A	OP1-P-O3'	-5.30	92.09	108.00
4	L	675	U	OP1-P-O3'	-5.30	92.09	108.00
2	J	213	A	OP2-P-O3'	-5.30	92.09	108.00
6	N	349	U	P-O3'-C3'	5.30	128.15	120.20
4	L	467	U	OP1-P-O3'	-5.29	92.11	108.00
5	M	302	U	P-O3'-C3'	-5.29	112.26	120.20
6	N	335	U	OP1-P-O3'	5.29	123.88	108.00
6	N	395	U	O3'-P-O5'	5.29	111.94	104.00
5	M	387	U	OP1-P-O3'	5.29	123.86	108.00
1	I	91	A	O3'-P-O5'	5.29	111.93	104.00
1	I	82	A	OP1-P-O3'	-5.29	92.14	108.00
4	L	483	U	OP2-P-O3'	5.28	123.83	108.00
4	L	624	U	OP2-P-O3'	-5.28	92.17	108.00
6	N	490	U	O3'-P-O5'	5.28	111.92	104.00
1	I	264	A	OP1-P-O3'	-5.28	92.17	108.00
6	N	460	U	OP1-P-O3'	5.28	123.82	108.00
2	J	21	A	OP2-P-O3'	5.27	123.82	108.00
2	J	107	A	OP1-P-O3'	-5.27	92.18	108.00
2	J	113	A	OP1-P-O3'	-5.27	92.18	108.00
1	I	345	A	OP1-P-O3'	-5.27	92.19	108.00
5	M	359	U	P-O3'-C3'	-5.27	112.30	120.20
6	N	485	U	P-O3'-C3'	-5.27	112.30	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	101	A	OP1-P-O3'	5.27	123.80	108.00
2	J	14	A	OP1-P-O3'	-5.26	92.21	108.00
3	K	228	A	OP1-P-O3'	5.26	123.79	108.00
4	L	677	U	P-O3'-C3'	-5.26	112.31	120.20
2	J	119	A	OP2-P-O3'	-5.26	92.22	108.00
3	K	3	A	OP1-P-O3'	5.26	123.78	108.00
4	L	525	U	OP1-P-O3'	-5.26	92.22	108.00
6	N	285	U	OP2-P-O3'	-5.26	92.22	108.00
1	I	397	A	OP1-P-O3'	5.26	123.77	108.00
4	L	431	U	P-O3'-C3'	5.26	128.09	120.20
4	L	580	U	P-O3'-C3'	-5.26	112.32	120.20
5	M	382	U	O3'-P-O5'	5.25	111.88	104.00
5	M	483	U	O3'-P-O5'	-5.25	96.12	104.00
6	N	512	U	OP1-P-O3'	5.25	123.75	108.00
2	J	268	A	P-O3'-C3'	-5.25	112.33	120.20
4	L	481	U	OP1-P-O3'	-5.24	92.27	108.00
6	N	506	U	O3'-P-O5'	5.24	111.87	104.00
1	I	276	A	P-O3'-C3'	-5.24	112.34	120.20
2	J	134	A	OP2-P-O3'	-5.24	92.28	108.00
3	K	170	A	OP1-P-O3'	-5.24	92.28	108.00
3	K	261	A	OP2-P-O3'	-5.24	92.28	108.00
1	I	96	A	P-O3'-C3'	-5.24	112.35	120.20
2	J	240	A	P-O3'-C3'	-5.23	112.35	120.20
4	L	658	U	OP2-P-O3'	5.23	123.69	108.00
6	N	353	U	O3'-P-O5'	-5.23	96.16	104.00
2	J	174	A	OP2-P-O3'	-5.22	92.33	108.00
4	L	479	U	OP2-P-O3'	-5.22	92.34	108.00
1	I	57	A	OP1-P-O3'	5.22	123.65	108.00
4	L	670	U	OP2-P-O3'	5.22	123.65	108.00
6	N	488	U	P-O3'-C3'	5.22	128.03	120.20
2	J	119	A	OP1-P-O3'	5.21	123.64	108.00
3	K	75	A	O3'-P-O5'	-5.21	96.18	104.00
4	L	572	U	P-O3'-C3'	-5.21	112.38	120.20
4	L	779	U	O3'-P-O5'	-5.21	96.18	104.00
2	J	36	A	OP2-P-O3'	5.21	123.63	108.00
5	M	445	U	P-O3'-C3'	-5.21	112.39	120.20
3	K	174	A	OP2-P-O3'	5.21	123.62	108.00
4	L	573	U	OP2-P-O3'	5.21	123.62	108.00
6	N	457	U	OP2-P-O3'	-5.21	92.38	108.00
3	K	74	A	OP1-P-O3'	-5.20	92.39	108.00
3	K	217	A	P-O3'-C3'	-5.20	112.39	120.20
6	N	267	U	OP2-P-O3'	-5.20	92.39	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	578	U	OP1-P-O3'	-5.20	92.40	108.00
4	L	645	U	P-O3'-C3'	-5.20	112.40	120.20
2	J	97	A	P-O3'-C3'	-5.20	112.40	120.20
4	L	809	U	OP2-P-O3'	-5.20	92.40	108.00
2	J	3	A	OP2-P-O3'	-5.19	92.42	108.00
1	I	389	A	O3'-P-O5'	-5.19	96.21	104.00
1	I	363	A	OP2-P-O3'	5.19	123.57	108.00
1	I	276	A	OP2-P-O3'	5.19	123.56	108.00
5	M	513	U	OP2-P-O3'	5.19	123.56	108.00
4	L	798	U	P-O3'-C3'	-5.19	112.42	120.20
1	I	61	A	OP2-P-O3'	5.18	123.55	108.00
1	I	93	A	O3'-P-O5'	-5.17	96.24	104.00
4	L	759	U	O3'-P-O5'	-5.17	96.24	104.00
5	M	460	U	OP2-P-O3'	5.17	123.52	108.00
1	I	174	A	OP2-P-O3'	5.17	123.50	108.00
3	K	115	A	OP1-P-O3'	5.17	123.50	108.00
5	M	463	U	OP1-P-O3'	-5.16	92.52	108.00
6	N	405	U	P-O3'-C3'	-5.16	112.46	120.20
1	I	151	A	OP2-P-O3'	-5.16	92.54	108.00
4	L	523	U	P-O3'-C3'	-5.16	112.47	120.20
2	J	130	A	OP1-P-O3'	-5.15	92.54	108.00
4	L	554	U	P-O3'-C3'	-5.15	112.47	120.20
4	L	679	U	P-O3'-C3'	5.15	127.92	120.20
1	I	212	A	OP1-P-O3'	-5.15	92.56	108.00
2	J	125	A	P-O3'-C3'	-5.15	112.48	120.20
4	L	562	U	OP2-P-O3'	-5.15	92.56	108.00
1	I	226	A	OP1-P-O3'	-5.14	92.58	108.00
1	I	399	A	P-O3'-C3'	5.14	127.91	120.20
1	I	217	A	P-O3'-C3'	-5.14	112.49	120.20
3	K	177	A	P-O3'-C3'	-5.14	112.49	120.20
1	I	242	A	O3'-P-O5'	-5.13	96.30	104.00
2	J	13	A	OP2-P-O3'	-5.13	92.59	108.00
5	M	379	U	P-O3'-C3'	5.13	127.90	120.20
1	I	346	A	OP1-P-O3'	-5.13	92.61	108.00
2	J	220	A	OP2-P-O3'	5.13	123.39	108.00
3	K	186	A	O3'-P-O5'	-5.13	96.30	104.00
1	I	399	A	OP2-P-O3'	-5.13	92.61	108.00
2	J	200	A	P-O3'-C3'	-5.13	112.51	120.20
3	K	196	A	OP1-P-O3'	5.13	123.38	108.00
5	M	416	U	O3'-P-O5'	5.13	111.69	104.00
4	L	744	U	OP1-P-O3'	-5.12	92.63	108.00
4	L	524	U	OP1-P-O3'	-5.12	92.64	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L	666	U	OP2-P-O3'	5.12	123.35	108.00
4	L	542	U	P-O3'-C3'	-5.12	112.53	120.20
1	I	262	A	O3'-P-O5'	-5.11	96.33	104.00
2	J	120	A	P-O3'-C3'	-5.11	112.54	120.20
3	K	229	A	OP1-P-O3'	5.11	123.33	108.00
2	J	164	A	P-O3'-C3'	-5.11	112.54	120.20
3	K	84	A	P-O3'-C3'	-5.10	112.55	120.20
3	K	261	A	O3'-P-O5'	5.10	111.65	104.00
4	L	564	U	OP2-P-O3'	5.10	123.31	108.00
1	I	144	A	OP1-P-O3'	5.10	123.30	108.00
1	I	4	A	O3'-P-O5'	5.10	111.65	104.00
3	K	56	A	OP2-P-O3'	5.10	123.29	108.00
4	L	664	U	OP2-P-O3'	-5.09	92.72	108.00
4	L	729	U	OP1-P-O3'	5.09	123.28	108.00
5	M	436	U	P-O3'-C3'	-5.09	112.56	120.20
2	J	18	A	O3'-P-O5'	5.09	111.64	104.00
6	N	283	U	P-O3'-C3'	-5.09	112.57	120.20
5	M	330	U	OP1-P-O3'	-5.09	92.73	108.00
5	M	519	U	OP1-P-O3'	-5.09	92.74	108.00
1	I	337	A	OP1-P-O3'	-5.08	92.77	108.00
2	J	179	A	OP1-P-O3'	-5.08	92.77	108.00
5	M	298	U	OP1-P-O3'	-5.08	92.76	108.00
3	K	23	A	OP2-P-O3'	-5.08	92.77	108.00
1	I	76	A	OP1-P-O3'	-5.08	92.78	108.00
1	I	320	A	OP2-P-O3'	5.07	123.22	108.00
2	J	250	A	O3'-P-O5'	5.07	111.61	104.00
3	K	213	A	OP2-P-O3'	5.07	123.21	108.00
3	K	258	A	P-O3'-C3'	-5.07	112.59	120.20
4	L	819	U	P-O3'-C3'	5.07	127.81	120.20
1	I	59	A	OP1-P-O3'	-5.07	92.80	108.00
5	M	413	U	OP2-P-O3'	-5.07	92.80	108.00
6	N	339	U	OP2-P-O3'	5.07	123.20	108.00
1	I	169	A	OP2-P-O3'	-5.07	92.80	108.00
4	L	626	U	OP2-P-O3'	-5.07	92.80	108.00
1	I	383	A	OP2-P-O3'	-5.06	92.81	108.00
3	K	187	A	O3'-P-O5'	5.06	111.59	104.00
4	L	615	U	OP1-P-O3'	-5.06	92.81	108.00
5	M	476	U	OP1-P-O3'	-5.06	92.81	108.00
3	K	118	A	O3'-P-O5'	-5.06	96.41	104.00
1	I	225	A	OP1-P-O3'	5.06	123.18	108.00
2	J	275	A	O3'-P-O5'	5.06	111.59	104.00
3	K	9	A	O3'-P-O5'	-5.06	96.41	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	158	A	OP1-P-O3'	-5.06	92.83	108.00
4	L	773	U	OP2-P-O3'	-5.06	92.83	108.00
5	M	317	U	OP1-P-O3'	-5.06	92.83	108.00
1	I	39	A	OP2-P-O3'	-5.05	92.84	108.00
2	J	145	A	OP2-P-O3'	5.05	123.16	108.00
6	N	365	U	P-O3'-C3'	-5.05	112.62	120.20
5	M	454	U	OP1-P-O3'	-5.05	92.85	108.00
6	N	520	U	O3'-P-O5'	-5.05	96.43	104.00
4	L	771	U	OP1-P-O3'	-5.05	92.86	108.00
5	M	399	U	OP1-P-O3'	-5.05	92.86	108.00
6	N	331	U	OP1-P-O3'	5.05	123.14	108.00
1	I	27	A	OP1-P-O3'	-5.04	92.88	108.00
4	L	536	U	P-O3'-C3'	-5.04	112.64	120.20
4	L	679	U	O3'-P-O5'	5.04	111.56	104.00
2	J	222	A	O3'-P-O5'	-5.04	96.44	104.00
2	J	134	A	P-O3'-C3'	-5.04	112.64	120.20
2	J	166	A	P-O3'-C3'	5.04	127.75	120.20
3	K	205	A	P-O3'-C3'	-5.04	112.65	120.20
5	M	415	U	O3'-P-O5'	5.04	111.55	104.00
2	J	165	A	OP1-P-O3'	5.03	123.09	108.00
6	N	407	U	OP2-P-O3'	5.03	123.08	108.00
6	N	266	U	O3'-P-O5'	5.02	111.54	104.00
5	M	481	U	OP2-P-O3'	-5.02	92.93	108.00
2	J	27	A	OP1-P-O3'	-5.01	92.95	108.00
3	K	19	A	OP1-P-O3'	5.01	123.04	108.00
1	I	70	A	OP1-P-O3'	-5.01	92.96	108.00
1	I	119	A	OP2-P-O3'	5.01	123.02	108.00
2	J	231	A	O3'-P-O5'	-5.01	96.49	104.00
1	I	123	A	OP2-P-O3'	5.01	123.02	108.00
4	L	460	U	OP1-P-O3'	-5.01	92.98	108.00
4	L	532	U	O3'-P-O5'	-5.00	96.49	104.00
1	I	253	A	OP1-P-O3'	5.00	123.00	108.00
4	L	725	U	OP2-P-O3'	5.00	123.00	108.00

There are no chirality outliers.

There are no planarity outliers.

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	I	9061	0	4518	4003	715
2	J	6069	0	3032	2565	1135
3	K	5827	0	2926	1851	622
4	L	8237	0	4114	3463	802
5	M	5517	0	2762	2209	1030
6	N	5297	0	2665	1647	473
All	All	40008	0	20017	15638	2447

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 261.

All (15638) 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)
2:J:47:A:C2'	2:J:48:A:H5'	1.27	1.65
5:M:319:U:C2'	5:M:320:U:H5'	1.25	1.57
4:L:477:U:C2'	4:L:478:U:H5'	1.35	1.56
3:K:168:A:C2'	3:K:169:A:H5'	1.34	1.54
1:I:65:A:C2'	1:I:66:A:C5'	1.85	1.53
3:K:253:A:C2'	3:K:254:A:H5'	1.38	1.53
5:M:419:U:C2'	5:M:420:U:H5'	1.39	1.53
4:L:722:U:C2	4:L:723:U:C5	1.95	1.50
3:K:110:A:C2'	3:K:111:A:H5'	1.39	1.49
5:M:337:U:C2'	5:M:338:U:C5'	1.90	1.48
4:L:638:U:C2'	4:L:639:U:C5'	1.91	1.48
2:J:205:A:C2'	2:J:206:A:C5'	1.92	1.47
1:I:267:A:C2	1:I:268:A:C5	2.00	1.47
5:M:531:U:C2'	5:M:532:U:H5'	1.44	1.47
4:L:723:U:C4	4:L:724:U:C4	2.01	1.46
2:J:29:A:C2'	2:J:30:A:C5'	1.89	1.45
4:L:497:U:C2'	4:L:498:U:H5'	1.26	1.45
1:I:136:A:C2'	1:I:137:A:H5'	1.43	1.45
1:I:279:A:O2'	1:I:280:A:C5'	1.65	1.44
2:J:69:A:C2'	2:J:70:A:H5'	1.44	1.44
5:M:319:U:C2'	5:M:320:U:C5'	1.91	1.43
3:K:110:A:O2'	3:K:111:A:C5'	1.66	1.43
6:N:497:U:C2'	6:N:498:U:H5'	1.48	1.43
4:L:759:U:C2'	4:L:760:U:H5'	1.25	1.43
2:J:8:A:O2'	2:J:9:A:C5'	1.67	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:705:U:O2'	4:L:706:U:C5'	1.67	1.42
1:I:323:A:C2'	1:I:324:A:C5'	1.98	1.42
2:J:117:A:O2'	2:J:118:A:C5'	1.65	1.42
2:J:183:A:C2'	2:J:184:A:C5'	1.91	1.42
4:L:487:U:C2'	4:L:488:U:H5'	1.49	1.42
4:L:759:U:C2'	4:L:760:U:C5'	1.94	1.42
1:I:133:A:C2'	1:I:134:A:H5'	1.35	1.41
3:K:251:A:H3'	3:K:252:A:P	1.59	1.41
1:I:131:A:N6	1:I:132:A:N6	1.70	1.40
4:L:718:U:O2'	4:L:719:U:C5'	1.67	1.40
2:J:92:A:C2	2:J:93:A:C5	2.10	1.40
4:L:674:U:C2'	4:L:675:U:H5'	1.51	1.40
1:I:376:A:N6	1:I:377:A:N6	1.69	1.39
3:K:119:A:C2'	3:K:120:A:H5'	1.24	1.39
4:L:638:U:C2'	4:L:639:U:H5'	1.27	1.39
5:M:428:U:O2'	5:M:429:U:C5'	1.68	1.39
1:I:65:A:C2'	1:I:66:A:H5'	1.11	1.39
3:K:152:A:N6	3:K:153:A:N6	1.66	1.39
4:L:576:U:C2'	4:L:577:U:H5'	1.50	1.39
6:N:420:U:O2'	6:N:421:U:C5'	1.68	1.39
4:L:807:U:C2'	4:L:808:U:H5'	1.36	1.39
1:I:323:A:O2'	1:I:324:A:C5'	1.70	1.39
2:J:70:A:C2'	2:J:71:A:H5'	1.41	1.39
5:M:347:U:O2'	5:M:348:U:C5'	1.69	1.39
6:N:426:U:O2'	6:N:427:U:C5'	1.68	1.39
5:M:323:U:O2'	5:M:324:U:C4'	1.70	1.38
2:J:47:A:C2'	2:J:48:A:C5'	2.01	1.38
3:K:119:A:C2'	3:K:120:A:C5'	1.92	1.38
3:K:168:A:C2'	3:K:169:A:C5'	2.00	1.38
4:L:518:U:O2'	4:L:519:U:C5'	1.67	1.38
4:L:807:U:O2'	4:L:808:U:C5'	1.70	1.38
5:M:408:U:O2'	5:M:409:U:C5'	1.71	1.38
1:I:62:A:O2'	1:I:63:A:C5'	1.68	1.38
5:M:323:U:O2'	5:M:324:U:C5'	1.67	1.38
4:L:550:U:O2'	4:L:551:U:C5'	1.70	1.37
1:I:323:A:C2'	1:I:324:A:H5'	1.30	1.37
4:L:497:U:C2'	4:L:498:U:C5'	1.97	1.37
1:I:133:A:C2'	1:I:134:A:C5'	1.96	1.37
4:L:557:U:O2'	4:L:558:U:H5'	1.25	1.37
2:J:56:A:C2'	2:J:57:A:H5'	1.48	1.36
2:J:136:A:C2	2:J:137:A:C4	2.12	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:319:U:O2'	5:M:320:U:H5'	1.21	1.36
5:M:337:U:C2'	5:M:338:U:H5'	1.21	1.36
5:M:350:U:O2'	5:M:351:U:C5'	1.73	1.36
4:L:807:U:C2'	4:L:808:U:C5'	2.02	1.36
1:I:138:A:C2'	1:I:139:A:H5'	1.54	1.36
3:K:118:A:O2'	3:K:119:A:C5'	1.71	1.36
4:L:759:U:O2'	4:L:760:U:C5'	1.68	1.36
4:L:780:U:O2'	4:L:781:U:H5'	1.19	1.36
2:J:26:A:O2'	2:J:27:A:H5'	1.19	1.35
1:I:132:A:C2'	1:I:133:A:H5'	1.55	1.35
3:K:119:A:O2'	3:K:120:A:C5'	1.71	1.35
6:N:440:U:C2'	6:N:441:U:H5'	1.50	1.35
6:N:481:U:O2'	6:N:482:U:C5'	1.73	1.35
6:N:425:U:H2'	6:N:426:U:C6	1.60	1.35
6:N:483:U:C4	6:N:484:U:O4	1.78	1.35
3:K:165:A:C2'	3:K:166:A:H5'	1.44	1.35
4:L:460:U:O2'	4:L:461:U:H5'	1.22	1.35
4:L:739:U:O2'	4:L:740:U:C5'	1.72	1.35
4:L:779:U:O2'	4:L:780:U:H5'	1.23	1.35
5:M:458:U:C2'	5:M:459:U:H5'	1.43	1.35
1:I:136:A:O2'	1:I:137:A:C5'	1.73	1.35
4:L:694:U:O2'	4:L:695:U:H5'	1.21	1.35
1:I:119:A:O2'	1:I:120:A:C5'	1.73	1.34
5:M:347:U:C2'	5:M:348:U:H5'	1.53	1.34
2:J:29:A:C2'	2:J:30:A:H5'	1.26	1.34
2:J:183:A:H2'	2:J:184:A:C5'	1.51	1.34
3:K:99:A:C2'	3:K:100:A:C5'	2.05	1.34
4:L:814:U:C2'	4:L:815:U:H5'	1.57	1.34
4:L:622:U:O2'	4:L:623:U:C5'	1.75	1.34
4:L:749:U:O2'	4:L:750:U:H5'	1.18	1.34
5:M:405:U:C2'	5:M:406:U:H5'	1.58	1.34
6:N:274:U:O2'	6:N:275:U:H5'	1.23	1.34
4:L:652:U:O2'	4:L:653:U:H5'	1.21	1.34
5:M:405:U:O2'	5:M:406:U:C5'	1.73	1.34
2:J:145:A:C5	2:J:146:A:N7	1.96	1.33
2:J:249:A:O2'	2:J:250:A:H5'	1.23	1.33
4:L:576:U:O2'	4:L:577:U:C5'	1.77	1.33
1:I:86:A:N6	1:I:87:A:N6	1.74	1.33
2:J:79:A:O2'	2:J:80:A:H5'	1.25	1.33
2:J:183:A:C2'	2:J:184:A:H5'	1.17	1.33
3:K:107:A:O2'	3:K:108:A:H5'	1.16	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:715:U:O2'	4:L:716:U:C5'	1.74	1.33
5:M:322:U:O2'	5:M:323:U:H5'	1.19	1.33
1:I:69:A:O2'	1:I:70:A:H5'	1.26	1.33
1:I:78:A:N3	1:I:79:A:C8	1.97	1.33
1:I:142:A:O2'	1:I:143:A:H5'	1.22	1.33
1:I:179:A:N6	1:I:180:A:N6	1.72	1.33
1:I:376:A:C6	1:I:377:A:N6	1.97	1.33
2:J:265:A:O2'	2:J:266:A:H5'	1.25	1.33
6:N:485:U:O3'	6:N:486:U:C5'	1.75	1.33
1:I:85:A:O2'	1:I:86:A:C5'	1.77	1.33
1:I:353:A:C2'	1:I:354:A:H5'	1.58	1.33
2:J:184:A:O2'	2:J:185:A:H5'	1.24	1.33
4:L:661:U:O2'	4:L:662:U:H5'	1.23	1.33
4:L:765:U:C2'	4:L:766:U:H5'	1.38	1.33
3:K:99:A:C2'	3:K:100:A:H5'	1.40	1.32
5:M:392:U:O2'	5:M:393:U:H5'	1.27	1.32
4:L:722:U:H2'	4:L:723:U:C5	1.64	1.32
5:M:458:U:C2'	5:M:459:U:C5'	2.06	1.32
1:I:55:A:O2'	1:I:56:A:H5'	1.19	1.32
1:I:254:A:O2'	1:I:255:A:H5'	1.29	1.32
2:J:205:A:O2'	2:J:206:A:C5'	1.76	1.32
5:M:455:U:O2'	5:M:456:U:H5'	1.27	1.32
3:K:130:A:O2'	3:K:131:A:H5'	1.28	1.32
3:K:256:A:O2'	3:K:257:A:H5'	1.22	1.32
4:L:677:U:O2'	4:L:678:U:H5'	1.25	1.32
5:M:336:U:H2'	5:M:337:U:O4'	1.20	1.32
4:L:622:U:C2'	4:L:623:U:H5'	1.60	1.32
4:L:768:U:O2'	4:L:769:U:C5'	1.77	1.32
5:M:494:U:O2'	5:M:495:U:H5'	1.19	1.32
5:M:531:U:O2'	5:M:532:U:H5'	1.24	1.32
2:J:11:A:O2'	2:J:12:A:H5'	1.22	1.31
3:K:110:A:C2'	3:K:111:A:C5'	2.07	1.31
3:K:251:A:C3'	3:K:252:A:P	2.17	1.31
4:L:722:U:O2	4:L:723:U:C5	1.78	1.31
1:I:134:A:C2	1:I:135:A:N7	1.98	1.31
2:J:69:A:O2'	2:J:70:A:H5'	1.20	1.31
4:L:765:U:C2'	4:L:766:U:C5'	2.08	1.31
4:L:812:U:O2'	4:L:813:U:H5'	1.21	1.31
4:L:477:U:C2'	4:L:478:U:C5'	2.07	1.31
5:M:368:U:C2'	5:M:369:U:H5'	1.50	1.31
5:M:483:U:O2'	5:M:484:U:H5'	1.15	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:267:A:N3	1:I:268:A:N7	1.79	1.31
3:K:95:A:O2'	3:K:96:A:H5'	1.28	1.31
5:M:395:U:O2'	5:M:396:U:H5'	1.20	1.31
5:M:408:U:C2'	5:M:409:U:H5'	1.59	1.31
1:I:103:A:O2'	1:I:104:A:C5'	1.78	1.31
1:I:267:A:C2	1:I:268:A:N7	1.97	1.31
4:L:765:U:O2'	4:L:766:U:H5'	1.25	1.31
1:I:88:A:O2'	1:I:89:A:H5'	1.14	1.30
1:I:138:A:O2'	1:I:139:A:H5'	1.24	1.30
3:K:105:A:H2'	3:K:106:A:C8	1.65	1.30
4:L:464:U:O2'	4:L:465:U:H5'	1.31	1.30
4:L:488:U:O2'	4:L:489:U:H5'	1.30	1.30
5:M:435:U:O2'	5:M:436:U:C5'	1.77	1.30
1:I:33:A:O2'	1:I:34:A:H5'	1.18	1.30
2:J:205:A:C2'	2:J:206:A:H5'	1.33	1.30
1:I:163:A:O2'	1:I:164:A:C5'	1.80	1.30
2:J:124:A:O2'	2:J:125:A:C5'	1.80	1.30
2:J:222:A:O2'	2:J:223:A:H5'	1.12	1.30
3:K:118:A:C2'	3:K:119:A:H5'	1.39	1.30
3:K:136:A:O2'	3:K:137:A:C5'	1.79	1.30
5:M:347:U:C2'	5:M:348:U:C5'	2.08	1.30
5:M:371:U:O2'	5:M:372:U:H5'	1.29	1.30
5:M:425:U:O2'	5:M:426:U:H5'	1.15	1.30
5:M:432:U:O2'	5:M:433:U:H5'	1.12	1.30
1:I:65:A:O2'	1:I:66:A:C5'	1.73	1.30
2:J:43:A:C2'	2:J:44:A:H5'	1.50	1.30
3:K:156:A:C2'	3:K:157:A:H5'	1.60	1.30
4:L:588:U:O2'	4:L:589:U:H5'	1.13	1.30
4:L:722:U:H2'	4:L:723:U:C6	1.65	1.30
6:N:440:U:O2'	6:N:441:U:H5'	1.12	1.30
1:I:136:A:C2'	1:I:137:A:C5'	2.09	1.29
1:I:202:A:O2'	1:I:203:A:C5'	1.79	1.29
4:L:540:U:O2'	4:L:541:U:H5'	1.31	1.29
5:M:449:U:O2'	5:M:450:U:C5'	1.78	1.29
5:M:453:U:H2'	5:M:454:U:O4'	1.30	1.29
6:N:281:U:O2'	6:N:282:U:H5'	1.23	1.29
2:J:47:A:O2'	2:J:48:A:C5'	1.79	1.29
3:K:81:A:O2'	3:K:82:A:H5'	1.28	1.29
4:L:547:U:C4	4:L:548:U:O4	1.85	1.29
6:N:412:U:O2'	6:N:413:U:C5'	1.79	1.29
1:I:12:A:O2'	1:I:13:A:H5'	1.32	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:178:A:O2'	1:I:179:A:H5'	1.26	1.29
1:I:267:A:N3	1:I:268:A:C8	2.00	1.29
4:L:724:U:C2'	4:L:725:U:H5'	1.63	1.29
6:N:423:U:O2'	6:N:424:U:H5'	1.23	1.29
4:L:438:U:C4	4:L:439:U:O4	1.85	1.29
4:L:566:U:O2'	4:L:567:U:H5'	1.13	1.29
6:N:431:U:O2'	6:N:432:U:C5'	1.81	1.29
4:L:634:U:O2'	4:L:635:U:H5'	1.16	1.29
6:N:362:U:O2'	6:N:363:U:H5'	1.20	1.29
6:N:431:U:C2'	6:N:432:U:C5'	2.10	1.29
6:N:442:U:O2'	6:N:443:U:H5'	1.19	1.29
1:I:147:A:O2'	1:I:148:A:H5'	1.18	1.28
1:I:230:A:O2'	1:I:231:A:H5'	1.20	1.28
1:I:255:A:O2'	1:I:256:A:H5'	1.27	1.28
1:I:258:A:O2'	1:I:259:A:H5'	1.13	1.28
1:I:347:A:O2'	1:I:348:A:H5'	1.19	1.28
2:J:11:A:C2'	2:J:12:A:H5'	1.63	1.28
2:J:117:A:C2	2:J:118:A:C4	2.21	1.28
4:L:736:U:O2'	4:L:737:U:H5'	1.17	1.28
5:M:318:U:O2'	5:M:319:U:H5'	1.20	1.28
1:I:134:A:C2	1:I:135:A:C5	2.21	1.28
2:J:83:A:C2	2:J:84:A:C5	2.21	1.28
2:J:229:A:O2'	2:J:230:A:H5'	1.26	1.28
2:J:234:A:O2'	2:J:235:A:H5'	1.32	1.28
3:K:165:A:C2'	3:K:166:A:C5'	2.11	1.28
3:K:253:A:C2'	3:K:254:A:C5'	2.10	1.28
4:L:463:U:O2'	4:L:464:U:H5'	1.24	1.28
4:L:723:U:H2'	4:L:724:U:O4'	1.24	1.28
4:L:815:U:O2'	4:L:816:U:H5'	1.24	1.28
1:I:270:A:O2'	1:I:271:A:H5'	1.20	1.28
1:I:271:A:N3	1:I:272:A:C8	2.00	1.28
2:J:160:A:O2'	2:J:161:A:H5'	1.31	1.28
5:M:525:U:O2'	5:M:526:U:H5'	1.24	1.28
1:I:87:A:O2'	1:I:88:A:H5'	1.11	1.28
1:I:101:A:N1	1:I:102:A:N6	1.80	1.28
2:J:221:A:O2'	2:J:222:A:H5'	1.18	1.28
4:L:775:U:O2'	4:L:776:U:H5'	1.13	1.28
1:I:109:A:C2	1:I:110:A:C4	2.22	1.28
3:K:132:A:O2'	3:K:133:A:H5'	1.20	1.28
3:K:250:A:O2'	3:K:251:A:H5'	1.26	1.28
6:N:449:U:O2'	6:N:450:U:H5'	1.25	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:270:A:C2'	1:I:271:A:H5'	1.63	1.27
3:K:118:A:C2'	3:K:119:A:C5'	2.03	1.27
3:K:168:A:O2'	3:K:169:A:H5'	1.18	1.27
5:M:539:U:O2'	5:M:540:U:H5'	1.17	1.27
6:N:424:U:H2'	6:N:425:U:C6	1.68	1.27
1:I:284:A:O2'	1:I:285:A:C5'	1.81	1.27
2:J:43:A:C2'	2:J:44:A:C5'	2.11	1.27
3:K:100:A:O2'	3:K:101:A:H5'	1.31	1.27
5:M:501:U:H2'	5:M:502:U:C6	1.67	1.27
1:I:248:A:O2'	1:I:249:A:H5'	1.15	1.27
2:J:230:A:O2'	2:J:231:A:H5'	1.18	1.27
3:K:99:A:O2'	3:K:100:A:C5'	1.82	1.27
4:L:487:U:O2'	4:L:488:U:C5'	1.82	1.27
5:M:452:U:O2'	5:M:453:U:H5'	1.10	1.27
5:M:544:U:O2'	5:M:545:U:C5'	1.81	1.27
1:I:73:A:C2'	1:I:74:A:O4'	1.81	1.27
2:J:130:A:O2'	2:J:131:A:H5'	1.30	1.27
4:L:498:U:O2'	4:L:499:U:H5'	1.29	1.27
5:M:369:U:O2'	5:M:370:U:H5'	1.33	1.27
1:I:277:A:N6	1:I:278:A:N6	1.80	1.27
2:J:92:A:N3	2:J:93:A:N7	1.81	1.27
3:K:90:A:O2'	3:K:91:A:H5'	1.17	1.27
3:K:253:A:O2'	3:K:254:A:H5'	1.14	1.27
5:M:323:U:C2'	5:M:324:U:O4'	1.79	1.27
6:N:400:U:O2'	6:N:401:U:H5'	1.13	1.27
6:N:492:U:O2'	6:N:493:U:H5'	1.28	1.27
1:I:74:A:H2'	1:I:75:A:O4'	1.23	1.26
1:I:109:A:O2'	1:I:110:A:C5'	1.83	1.26
1:I:172:A:O2'	1:I:173:A:H5'	1.11	1.26
1:I:229:A:O2'	1:I:230:A:H5'	1.32	1.26
2:J:204:A:N6	2:J:205:A:N6	1.81	1.26
3:K:64:A:O2'	3:K:65:A:H5'	1.24	1.26
4:L:691:U:O2'	4:L:692:U:H5'	1.30	1.26
4:L:755:U:O2'	4:L:756:U:H5'	1.20	1.26
4:L:794:U:O2'	4:L:795:U:H5'	1.15	1.26
5:M:318:U:C2'	5:M:319:U:H5'	1.65	1.26
5:M:454:U:H2'	5:M:455:U:O4'	1.35	1.26
5:M:485:U:O2'	5:M:486:U:H5'	1.19	1.26
6:N:280:U:O2'	6:N:281:U:H5'	1.34	1.26
6:N:426:U:C2'	6:N:427:U:C5'	2.06	1.26
1:I:252:A:O2'	1:I:253:A:H5'	1.13	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:262:A:O2'	1:I:263:A:H5'	1.26	1.26
2:J:58:A:O2'	2:J:59:A:H5'	1.12	1.26
3:K:65:A:N6	3:K:66:A:N6	1.83	1.26
4:L:501:U:O2'	4:L:502:U:H5'	1.29	1.26
5:M:396:U:O2'	5:M:397:U:H5'	1.25	1.26
2:J:37:A:O2'	2:J:38:A:H5'	1.25	1.26
2:J:117:A:O2'	2:J:118:A:H5'	1.11	1.26
2:J:122:A:N6	2:J:123:A:N6	1.83	1.26
4:L:507:U:C2'	4:L:508:U:H5'	1.65	1.26
4:L:762:U:O2'	4:L:763:U:C5'	1.82	1.26
5:M:350:U:C2'	5:M:351:U:H5'	1.58	1.26
5:M:486:U:O2'	5:M:487:U:H5'	1.29	1.26
6:N:320:U:O2'	6:N:321:U:H5'	1.25	1.26
6:N:485:U:O3'	6:N:486:U:H5'	1.21	1.26
1:I:317:A:O2'	1:I:318:A:H5'	1.15	1.26
4:L:647:U:O2'	4:L:648:U:H5'	1.31	1.26
5:M:482:U:O2'	5:M:483:U:H5'	1.21	1.26
1:I:184:A:N6	1:I:185:A:N6	1.84	1.26
2:J:69:A:C2'	2:J:70:A:C5'	2.12	1.26
6:N:485:U:H2'	6:N:486:U:O4'	1.35	1.26
1:I:91:A:C2'	1:I:92:A:H5'	1.64	1.25
1:I:260:A:O2'	1:I:261:A:H5'	1.33	1.25
2:J:124:A:O2'	2:J:125:A:H5'	1.09	1.25
2:J:222:A:C2'	2:J:223:A:H5'	1.43	1.25
4:L:497:U:O2'	4:L:498:U:H5'	1.16	1.25
4:L:638:U:O2'	4:L:639:U:C5'	1.75	1.25
4:L:673:U:O2'	4:L:674:U:H5'	1.08	1.25
4:L:722:U:C2	4:L:723:U:C4	2.24	1.25
1:I:283:A:C2	1:I:284:A:C5	2.24	1.25
2:J:83:A:N3	2:J:84:A:C8	2.03	1.25
2:J:218:A:O2'	2:J:219:A:H5'	1.19	1.25
4:L:594:U:O2'	4:L:595:U:H5'	1.31	1.25
4:L:595:U:O2'	4:L:596:U:H5'	1.32	1.25
4:L:692:U:O2'	4:L:693:U:H5'	1.11	1.25
1:I:74:A:O2'	1:I:75:A:H5'	1.35	1.25
1:I:361:A:O2'	1:I:362:A:H5'	1.18	1.25
2:J:70:A:C2'	2:J:71:A:C5'	2.09	1.25
2:J:120:A:O2'	2:J:121:A:H5'	1.29	1.25
2:J:153:A:O2'	2:J:154:A:H5'	1.20	1.25
2:J:182:A:N6	2:J:183:A:N6	1.83	1.25
2:J:206:A:O2'	2:J:207:A:C5'	1.83	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:603:U:O2'	4:L:604:U:H5'	1.34	1.25
4:L:814:U:O2'	4:L:815:U:H5'	1.15	1.25
5:M:331:U:O2'	5:M:332:U:H5'	1.15	1.25
5:M:464:U:O2'	5:M:465:U:H5'	1.10	1.25
6:N:411:U:O2'	6:N:412:U:H5'	1.34	1.25
1:I:274:A:O2'	1:I:275:A:C5'	1.84	1.25
2:J:101:A:N6	2:J:102:A:N6	1.84	1.25
2:J:211:A:O2'	2:J:212:A:H5'	1.23	1.25
5:M:323:U:H2'	5:M:324:U:O4'	1.31	1.25
5:M:419:U:O2'	5:M:420:U:C5'	1.84	1.25
6:N:338:U:H2'	6:N:339:U:C6	1.72	1.25
6:N:380:U:O2'	6:N:381:U:H5'	1.27	1.25
6:N:405:U:O2'	6:N:406:U:H5'	1.32	1.25
1:I:25:A:O2'	1:I:26:A:H5'	1.15	1.25
1:I:243:A:N6	1:I:244:A:N6	1.85	1.25
1:I:269:A:O2'	1:I:270:A:H5'	1.31	1.25
2:J:176:A:O2'	2:J:177:A:H5'	1.31	1.25
2:J:222:A:C2'	2:J:223:A:C5'	2.12	1.25
3:K:203:A:C2	3:K:204:A:C5	2.25	1.25
4:L:484:U:O2'	4:L:485:U:H5'	1.30	1.25
4:L:668:U:H2'	4:L:669:U:C6	1.70	1.25
4:L:695:U:O2'	4:L:696:U:H5'	1.13	1.25
4:L:708:U:O2'	4:L:709:U:H5'	1.32	1.25
5:M:469:U:C2	5:M:470:U:C5	2.23	1.25
6:N:374:U:O2'	6:N:375:U:H5'	1.35	1.25
6:N:440:U:C2'	6:N:441:U:C5'	2.14	1.25
4:L:674:U:O2'	4:L:675:U:H5'	1.08	1.24
4:L:715:U:H2'	4:L:716:U:C6	1.72	1.24
1:I:133:A:O2'	1:I:134:A:C5'	1.80	1.24
1:I:175:A:C2	1:I:176:A:C5	2.24	1.24
1:I:227:A:O2'	1:I:228:A:H5'	1.31	1.24
1:I:295:A:O2'	1:I:296:A:H5'	1.25	1.24
2:J:70:A:O2'	2:J:71:A:C5'	1.83	1.24
2:J:107:A:O2'	2:J:108:A:H5'	1.34	1.24
2:J:119:A:N6	2:J:120:A:N6	1.83	1.24
3:K:156:A:O2'	3:K:157:A:H5'	1.32	1.24
3:K:165:A:O2'	3:K:166:A:H5'	1.07	1.24
4:L:525:U:O2'	4:L:526:U:H5'	1.33	1.24
4:L:682:U:O2'	4:L:683:U:H5'	1.07	1.24
4:L:698:U:O2'	4:L:699:U:H5'	1.13	1.24
5:M:491:U:O2'	5:M:492:U:H5'	1.35	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:417:U:O2'	6:N:418:U:H5'	1.37	1.24
6:N:431:U:C2'	6:N:432:U:H5'	1.46	1.24
2:J:127:A:O2'	2:J:128:A:C5'	1.86	1.24
4:L:811:U:H2'	4:L:812:U:O4'	1.32	1.24
5:M:485:U:C2'	5:M:486:U:H5'	1.65	1.24
6:N:311:U:H2'	6:N:312:U:O4'	1.33	1.24
1:I:82:A:H2'	1:I:83:A:O4'	1.30	1.24
1:I:207:A:O2'	1:I:208:A:H5'	1.27	1.24
2:J:67:A:O2'	2:J:68:A:H5'	1.35	1.24
2:J:143:A:C2	2:J:144:A:N9	2.05	1.24
2:J:192:A:O2'	2:J:193:A:H5'	1.33	1.24
2:J:233:A:O2'	2:J:234:A:H5'	1.34	1.24
4:L:500:U:O2'	4:L:501:U:H5'	1.10	1.24
4:L:567:U:O2'	4:L:568:U:H5'	1.12	1.24
4:L:704:U:O2'	4:L:705:U:H5'	1.29	1.24
5:M:391:U:O2'	5:M:392:U:H5'	1.34	1.24
5:M:458:U:O2'	5:M:459:U:C5'	1.86	1.24
1:I:17:A:O2'	1:I:18:A:C5'	1.86	1.24
1:I:30:A:O2'	1:I:31:A:H5'	1.36	1.24
1:I:120:A:O2'	1:I:121:A:H5'	1.38	1.24
1:I:236:A:O2'	1:I:237:A:H5'	1.10	1.24
2:J:66:A:O2'	2:J:67:A:H5'	1.34	1.24
2:J:248:A:N6	2:J:249:A:N6	1.82	1.24
4:L:507:U:O2'	4:L:508:U:C5'	1.85	1.24
4:L:572:U:O2'	4:L:573:U:C5'	1.86	1.24
5:M:419:U:C2'	5:M:420:U:C5'	2.14	1.24
6:N:277:U:O2'	6:N:278:U:H5'	1.09	1.24
1:I:103:A:O2'	1:I:104:A:H5'	1.30	1.23
1:I:135:A:O2'	1:I:136:A:H5'	1.28	1.23
3:K:104:A:O2'	3:K:105:A:C5'	1.85	1.23
4:L:477:U:O2'	4:L:478:U:C5'	1.86	1.23
4:L:649:U:O2'	4:L:650:U:H5'	1.36	1.23
5:M:368:U:O2'	5:M:369:U:H5'	1.06	1.23
5:M:420:U:O2'	5:M:421:U:H5'	1.33	1.23
5:M:526:U:O2'	5:M:527:U:H5'	1.08	1.23
6:N:454:U:O2'	6:N:455:U:H5'	1.37	1.23
1:I:81:A:O2'	1:I:82:A:H5'	1.06	1.23
1:I:232:A:C2'	1:I:233:A:H5'	1.60	1.23
3:K:124:A:C2	3:K:125:A:C5	2.25	1.23
4:L:597:U:O2'	4:L:598:U:H5'	1.30	1.23
5:M:382:U:O2'	5:M:383:U:H5'	1.07	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:433:U:C4	5:M:434:U:O4	1.91	1.23
5:M:453:U:C2'	5:M:454:U:O4'	1.86	1.23
6:N:346:U:O3'	6:N:347:U:P	1.96	1.23
1:I:129:A:C2'	1:I:130:A:H5'	1.68	1.23
2:J:206:A:C2'	2:J:207:A:H5'	1.59	1.23
5:M:387:U:C2	5:M:388:U:C5	2.25	1.23
5:M:405:U:C2'	5:M:406:U:C5'	2.14	1.23
5:M:448:U:O2'	5:M:449:U:H5'	1.08	1.23
5:M:474:U:O3'	5:M:475:U:P	1.96	1.23
1:I:97:A:O2'	1:I:98:A:H5'	1.16	1.23
4:L:554:U:C2	4:L:555:U:C5	2.27	1.23
4:L:713:U:H2'	4:L:714:U:O4'	1.09	1.23
4:L:723:U:C5	4:L:724:U:C5	2.25	1.23
1:I:14:A:H2'	1:I:15:A:O4'	1.38	1.23
1:I:355:A:O3'	1:I:356:A:P	1.97	1.23
2:J:168:A:O3'	2:J:169:A:P	1.97	1.23
3:K:166:A:O2'	3:K:167:A:H5'	1.06	1.23
4:L:510:U:O2'	4:L:511:U:H5'	1.32	1.23
2:J:206:A:C2'	2:J:207:A:C5'	2.15	1.22
3:K:100:A:C2'	3:K:101:A:C5'	2.15	1.22
4:L:537:U:O2'	4:L:538:U:H5'	1.39	1.22
4:L:576:U:C2'	4:L:577:U:C5'	2.08	1.22
4:L:743:U:O2'	4:L:744:U:C5'	1.84	1.22
5:M:346:U:O2'	5:M:347:U:H5'	1.06	1.22
6:N:288:U:O3'	6:N:289:U:P	1.98	1.22
1:I:174:A:O2'	1:I:175:A:H5'	1.32	1.22
1:I:257:A:O2'	1:I:258:A:H5'	1.08	1.22
1:I:270:A:C2'	1:I:271:A:C5'	2.18	1.22
1:I:385:A:O3'	1:I:386:A:P	1.97	1.22
2:J:43:A:O2'	2:J:44:A:H5'	1.31	1.22
2:J:214:A:O2'	2:J:215:A:H5'	1.08	1.22
2:J:219:A:O2'	2:J:220:A:H5'	1.09	1.22
3:K:15:A:O3'	3:K:16:A:P	1.97	1.22
3:K:89:A:O2'	3:K:90:A:P	1.96	1.22
5:M:407:U:C4	5:M:408:U:O4	1.93	1.22
5:M:488:U:H2'	5:M:489:U:O4'	1.38	1.22
5:M:549:U:O3'	5:M:550:U:P	1.97	1.22
6:N:387:U:O3'	6:N:388:U:P	1.97	1.22
1:I:106:A:N3	1:I:107:A:C8	2.06	1.22
1:I:132:A:O2'	1:I:133:A:H5'	1.10	1.22
2:J:265:A:O2'	2:J:266:A:C5'	1.87	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:112:A:N6	3:K:113:A:N6	1.86	1.22
4:L:487:U:C2'	4:L:488:U:C5'	2.15	1.22
4:L:694:U:C2'	4:L:695:U:H5'	1.52	1.22
5:M:335:U:C4	5:M:336:U:C4	2.28	1.22
5:M:428:U:C2'	5:M:429:U:H5'	1.69	1.22
6:N:303:U:O3'	6:N:304:U:P	1.96	1.22
6:N:379:U:O2'	6:N:380:U:H5'	1.29	1.22
6:N:416:U:C2'	6:N:417:U:O4'	1.82	1.22
6:N:450:U:H2'	6:N:451:U:O4'	1.39	1.22
6:N:484:U:O3'	6:N:485:U:H5'	1.36	1.22
1:I:56:A:O2'	1:I:57:A:C5'	1.86	1.22
1:I:232:A:O2'	1:I:233:A:H5'	1.38	1.22
1:I:291:A:O2'	1:I:292:A:H5'	1.38	1.22
1:I:353:A:O2'	1:I:354:A:H5'	1.08	1.22
2:J:100:A:O2'	2:J:101:A:H5'	1.09	1.22
3:K:31:A:N6	3:K:32:A:N6	1.85	1.22
3:K:208:A:O3'	3:K:209:A:P	1.98	1.22
4:L:646:U:O2'	4:L:647:U:H5'	1.38	1.22
5:M:336:U:C2'	5:M:337:U:C5'	2.16	1.22
1:I:132:A:C2'	1:I:133:A:C5'	2.15	1.22
1:I:239:A:O2'	1:I:240:A:H5'	1.04	1.22
2:J:88:A:O2'	2:J:89:A:C5'	1.87	1.22
3:K:19:A:O3'	3:K:20:A:P	1.97	1.22
6:N:394:U:O2'	6:N:395:U:C5'	1.85	1.22
3:K:13:A:O3'	3:K:14:A:P	1.98	1.21
3:K:14:A:O3'	3:K:15:A:P	1.98	1.21
4:L:578:U:O2'	4:L:579:U:H5'	1.36	1.21
4:L:717:U:C4	4:L:718:U:O4	1.92	1.21
4:L:746:U:O2	4:L:747:U:C6	1.92	1.21
5:M:322:U:C2'	5:M:323:U:H5'	1.69	1.21
1:I:49:A:O2'	1:I:50:A:H5'	1.40	1.21
1:I:119:A:C2'	1:I:120:A:H5'	1.70	1.21
1:I:277:A:C6	1:I:278:A:N6	2.07	1.21
1:I:299:A:O2'	1:I:300:A:H5'	1.34	1.21
1:I:306:A:O2'	1:I:307:A:C5'	1.88	1.21
2:J:56:A:O2'	2:J:57:A:C5'	1.88	1.21
3:K:155:A:H2'	3:K:156:A:O4'	1.40	1.21
4:L:740:U:O2'	4:L:741:U:H5'	1.37	1.21
6:N:427:U:O2'	6:N:428:U:H5'	1.38	1.21
1:I:122:A:O2'	1:I:123:A:H5'	1.08	1.21
2:J:133:A:O2'	2:J:134:A:C5'	1.87	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:702:U:O2'	4:L:703:U:H5'	1.38	1.21
4:L:713:U:C2'	4:L:714:U:O4'	1.87	1.21
4:L:733:U:O2'	4:L:734:U:H5'	1.39	1.21
4:L:751:U:O2'	4:L:752:U:H5'	1.39	1.21
5:M:510:U:H2'	5:M:511:U:H6	1.06	1.21
1:I:360:A:O2'	1:I:361:A:H5'	1.38	1.21
3:K:10:A:O3'	3:K:11:A:P	1.97	1.21
4:L:447:U:O3'	4:L:448:U:P	1.98	1.21
4:L:688:U:O2'	4:L:689:U:C5'	1.88	1.21
4:L:757:U:C2	4:L:758:U:C5	2.29	1.21
5:M:379:U:H2'	5:M:380:U:C6	1.75	1.21
6:N:426:U:C2'	6:N:427:U:H5'	1.60	1.21
1:I:337:A:O2'	1:I:338:A:C5'	1.87	1.21
2:J:143:A:C2	2:J:144:A:C4	2.27	1.21
2:J:191:A:O2'	2:J:192:A:H5'	1.39	1.21
4:L:612:U:O2'	4:L:613:U:H5'	1.37	1.21
4:L:682:U:O2'	4:L:683:U:C5'	1.89	1.21
5:M:333:U:C2'	5:M:334:U:H5'	1.64	1.21
5:M:530:U:C2'	5:M:531:U:H5'	1.52	1.21
1:I:314:A:O2'	1:I:315:A:H5'	1.40	1.20
4:L:445:U:O3'	4:L:446:U:P	1.98	1.20
4:L:574:U:H2'	4:L:575:U:C6	1.77	1.20
4:L:584:U:O2'	4:L:585:U:H5'	1.35	1.20
5:M:399:U:O2'	5:M:400:U:H5'	1.39	1.20
1:I:106:A:O2'	1:I:107:A:C5'	1.88	1.20
1:I:116:A:O2'	1:I:117:A:H5'	1.34	1.20
2:J:21:A:O2'	2:J:22:A:H5'	1.36	1.20
3:K:244:A:O3'	3:K:245:A:P	1.98	1.20
4:L:533:U:O2'	4:L:534:U:H5'	1.41	1.20
4:L:554:U:O2	4:L:555:U:C5	1.93	1.20
1:I:75:A:C2'	1:I:76:A:H5'	1.71	1.20
1:I:126:A:O2'	1:I:127:A:H5'	1.36	1.20
1:I:132:A:O2'	1:I:133:A:C5'	1.89	1.20
1:I:202:A:C2'	1:I:203:A:H5'	1.71	1.20
1:I:250:A:N6	1:I:251:A:N6	1.90	1.20
2:J:104:A:O2'	2:J:105:A:H5'	1.37	1.20
2:J:132:A:O2'	2:J:133:A:H5'	1.41	1.20
2:J:270:A:O3'	2:J:271:A:P	1.98	1.20
3:K:178:A:O3'	3:K:179:A:P	2.00	1.20
4:L:762:U:O2'	4:L:763:U:H5'	1.05	1.20
4:L:767:U:C2	4:L:768:U:C5	2.28	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:233:A:O2'	1:I:234:A:H5'	1.39	1.20
1:I:287:A:O2'	1:I:288:A:H5'	1.34	1.20
3:K:16:A:O3'	3:K:17:A:P	2.00	1.20
3:K:125:A:O2'	3:K:126:A:H5'	1.05	1.20
4:L:642:U:O2'	4:L:643:U:H5'	1.42	1.20
4:L:694:U:C2'	4:L:695:U:C5'	2.17	1.20
5:M:505:U:O2'	5:M:506:U:C5'	1.87	1.20
1:I:73:A:O2'	1:I:74:A:C5'	1.88	1.20
1:I:372:A:O2'	1:I:373:A:H5'	1.40	1.20
2:J:103:A:O2'	2:J:104:A:C5'	1.90	1.20
3:K:46:A:O3'	3:K:47:A:P	2.00	1.20
4:L:677:U:O3'	4:L:678:U:P	1.98	1.20
6:N:457:U:O3'	6:N:458:U:P	2.00	1.20
6:N:467:U:O2'	6:N:468:U:C5'	1.88	1.20
1:I:78:A:C2	1:I:79:A:C4	2.30	1.19
1:I:175:A:O2'	1:I:176:A:P	1.99	1.19
1:I:287:A:C2'	1:I:288:A:H5'	1.72	1.19
2:J:56:A:C2'	2:J:57:A:C5'	2.14	1.19
2:J:254:A:O2'	2:J:255:A:H5'	1.41	1.19
2:J:271:A:O3'	2:J:272:A:P	1.98	1.19
3:K:104:A:O2'	3:K:105:A:H5'	1.04	1.19
4:L:518:U:C2'	4:L:519:U:H5'	1.70	1.19
5:M:530:U:O2'	5:M:531:U:H5'	1.39	1.19
1:I:22:A:O2'	1:I:23:A:H5'	1.42	1.19
2:J:72:A:O2'	2:J:73:A:H5'	1.37	1.19
4:L:506:U:O2'	4:L:507:U:H5'	1.42	1.19
4:L:536:U:O3'	4:L:537:U:P	2.00	1.19
4:L:585:U:O2'	4:L:586:U:C5'	1.90	1.19
5:M:368:U:C2'	5:M:369:U:C5'	2.21	1.19
1:I:134:A:N3	1:I:135:A:N7	1.88	1.19
1:I:135:A:C2'	1:I:136:A:H5'	1.73	1.19
1:I:283:A:O2'	1:I:284:A:P	2.00	1.19
2:J:229:A:O2'	2:J:230:A:C5'	1.90	1.19
4:L:466:U:O2'	4:L:467:U:H5'	1.05	1.19
5:M:308:U:O3'	5:M:309:U:P	2.01	1.19
5:M:536:U:O2'	5:M:537:U:H5'	1.42	1.19
6:N:425:U:C2'	6:N:426:U:O4'	1.90	1.19
1:I:271:A:C2	1:I:272:A:C5	2.31	1.19
3:K:23:A:O3'	3:K:24:A:P	2.00	1.19
4:L:477:U:O2'	4:L:478:U:H5'	1.01	1.19
4:L:769:U:O2'	4:L:770:U:C5'	1.91	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:373:U:O2'	5:M:374:U:H5'	1.43	1.19
6:N:497:U:O2'	6:N:498:U:H5'	1.43	1.19
1:I:15:A:C2'	1:I:16:A:H5'	1.72	1.19
1:I:56:A:O2'	1:I:57:A:H5'	1.04	1.19
1:I:145:A:O3'	1:I:146:A:P	2.01	1.19
1:I:273:A:C2'	1:I:274:A:H5'	1.71	1.19
1:I:330:A:O2'	1:I:331:A:H5'	1.39	1.19
3:K:62:A:N6	3:K:63:A:N6	1.91	1.19
3:K:156:A:C2'	3:K:157:A:C5'	2.20	1.19
4:L:563:U:H2'	4:L:564:U:C6	1.77	1.19
4:L:587:U:O2'	4:L:588:U:H5'	1.42	1.19
4:L:728:U:C2	4:L:729:U:C5	2.31	1.19
4:L:754:U:O2'	4:L:755:U:H5'	1.43	1.19
5:M:530:U:C2'	5:M:531:U:C5'	2.20	1.19
6:N:305:U:H2'	6:N:306:U:C6	1.77	1.19
1:I:73:A:H2'	1:I:74:A:O4'	1.34	1.18
1:I:133:A:O2'	1:I:134:A:H5'	1.04	1.18
2:J:202:A:O2'	2:J:203:A:C5'	1.90	1.18
4:L:686:U:O2'	4:L:687:U:H5'	1.40	1.18
4:L:757:U:H2'	4:L:758:U:C6	1.77	1.18
5:M:336:U:C2'	5:M:337:U:H5'	1.57	1.18
5:M:496:U:O2'	5:M:497:U:H5'	1.40	1.18
5:M:515:U:O2'	5:M:516:U:H5'	1.39	1.18
5:M:531:U:C2'	5:M:532:U:C5'	2.20	1.18
1:I:68:A:C2'	1:I:69:A:H5'	1.73	1.18
1:I:190:A:O2'	1:I:191:A:H5'	1.38	1.18
2:J:241:A:O3'	2:J:242:A:P	2.02	1.18
3:K:54:A:O3'	3:K:55:A:P	2.00	1.18
3:K:136:A:C2'	3:K:137:A:H5'	1.72	1.18
3:K:243:A:O3'	3:K:244:A:P	2.01	1.18
3:K:260:A:O3'	3:K:261:A:P	2.01	1.18
4:L:487:U:O2'	4:L:488:U:H5'	1.01	1.18
4:L:532:U:O2'	4:L:533:U:H5'	1.43	1.18
4:L:676:U:O3'	4:L:677:U:P	2.00	1.18
4:L:776:U:O2'	4:L:777:U:H5'	1.42	1.18
5:M:338:U:O2'	5:M:339:U:H5'	1.42	1.18
5:M:348:U:H2'	5:M:349:U:C6	1.78	1.18
5:M:458:U:O2'	5:M:459:U:H5'	1.01	1.18
1:I:68:A:O2'	1:I:69:A:H5'	1.44	1.18
1:I:95:A:C2	1:I:96:A:C5	2.31	1.18
1:I:212:A:O2'	1:I:213:A:H5'	1.43	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:94:A:O2'	2:J:95:A:H5'	1.01	1.18
3:K:59:A:O2'	3:K:60:A:H5'	1.41	1.18
4:L:448:U:C2	4:L:449:U:C5	2.32	1.18
4:L:564:U:O2'	4:L:565:U:H5'	1.42	1.18
6:N:271:U:O3'	6:N:272:U:P	2.02	1.18
6:N:497:U:C2'	6:N:498:U:C5'	2.19	1.18
1:I:75:A:O2'	1:I:76:A:C5'	1.92	1.18
1:I:272:A:N6	1:I:273:A:N6	1.89	1.18
1:I:341:A:O2'	1:I:342:A:H5'	1.40	1.18
2:J:75:A:O2'	2:J:76:A:H5'	1.44	1.18
2:J:129:A:O2'	2:J:130:A:H5'	1.42	1.18
2:J:183:A:O2'	2:J:184:A:C5'	1.87	1.18
3:K:251:A:O3'	3:K:252:A:P	2.02	1.18
4:L:532:U:C2'	4:L:533:U:H5'	1.68	1.18
4:L:585:U:O2'	4:L:586:U:H5'	1.01	1.18
4:L:750:U:C2	4:L:751:U:C5	2.32	1.18
4:L:803:U:H2'	4:L:804:U:C6	1.77	1.18
5:M:333:U:O2'	5:M:334:U:H5'	1.03	1.18
1:I:167:A:O2'	1:I:168:A:H5'	1.42	1.18
1:I:232:A:C2'	1:I:233:A:C5'	2.20	1.18
2:J:13:A:O2'	2:J:14:A:H5'	1.39	1.18
3:K:249:A:O2'	3:K:250:A:H5'	1.44	1.18
5:M:365:U:O2'	5:M:366:U:H5'	1.42	1.18
5:M:510:U:H2'	5:M:511:U:C6	1.79	1.18
6:N:325:U:O3'	6:N:326:U:P	2.01	1.18
1:I:239:A:O2'	1:I:240:A:C5'	1.91	1.17
1:I:318:A:O2'	1:I:319:A:H5'	1.41	1.17
4:L:500:U:C2'	4:L:501:U:H5'	1.70	1.17
4:L:529:U:O2'	4:L:530:U:H5'	1.02	1.17
5:M:464:U:O2'	5:M:465:U:C5'	1.91	1.17
6:N:485:U:O3'	6:N:486:U:P	2.00	1.17
1:I:42:A:O2'	1:I:43:A:H5'	1.44	1.17
2:J:54:A:O2'	2:J:55:A:H5'	1.43	1.17
3:K:63:A:O3'	3:K:64:A:P	2.01	1.17
3:K:92:A:O2'	3:K:93:A:H5'	1.39	1.17
4:L:658:U:O2'	4:L:659:U:H5'	1.41	1.17
5:M:336:U:C4	5:M:337:U:C5	2.33	1.17
5:M:466:U:C2'	5:M:467:U:H5'	1.65	1.17
1:I:17:A:O2'	1:I:18:A:H5'	1.00	1.17
1:I:78:A:C2	1:I:79:A:C5	2.33	1.17
1:I:373:A:N6	1:I:374:A:N6	1.90	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:439:U:O3'	4:L:440:U:P	2.03	1.17
4:L:674:U:C2'	4:L:675:U:C5'	2.22	1.17
4:L:814:U:C2'	4:L:815:U:C5'	2.23	1.17
5:M:337:U:O2'	5:M:338:U:H5'	1.01	1.17
5:M:348:U:C2	5:M:349:U:C5	2.33	1.17
1:I:74:A:C2'	1:I:75:A:C5'	2.19	1.17
1:I:240:A:N3	1:I:241:A:C8	2.12	1.17
2:J:239:A:O3'	2:J:240:A:P	2.01	1.17
3:K:156:A:H2'	3:K:157:A:O4'	1.45	1.17
3:K:210:A:O2'	3:K:211:A:H5'	1.40	1.17
4:L:705:U:C2'	4:L:706:U:H5'	1.74	1.17
4:L:802:U:O2'	4:L:803:U:H5'	1.45	1.17
5:M:335:U:C4	5:M:336:U:O4	1.98	1.17
5:M:337:U:H2'	5:M:338:U:C5'	1.53	1.17
5:M:435:U:O2'	5:M:436:U:H5'	1.36	1.17
1:I:40:A:O3'	1:I:41:A:P	2.03	1.17
1:I:186:A:N3	1:I:187:A:C8	2.13	1.17
1:I:335:A:N6	1:I:336:A:N6	1.92	1.17
2:J:205:A:O2'	2:J:206:A:H5'	0.99	1.17
2:J:211:A:C2'	2:J:212:A:H5'	1.74	1.17
3:K:42:A:O2'	3:K:43:A:H5'	1.39	1.17
4:L:767:U:H2'	4:L:768:U:C6	1.80	1.17
6:N:454:U:C2'	6:N:455:U:H5'	1.75	1.17
6:N:471:U:O2'	6:N:472:U:H5'	1.44	1.17
6:N:484:U:O3'	6:N:485:U:C5'	1.93	1.17
1:I:284:A:C2'	1:I:285:A:H5'	1.74	1.16
3:K:54:A:O3'	3:K:55:A:OP2	1.61	1.16
3:K:137:A:O2'	3:K:138:A:H5'	1.46	1.16
3:K:212:A:N6	3:K:213:A:N6	1.92	1.16
5:M:314:U:O3'	5:M:315:U:P	2.03	1.16
6:N:289:U:O3'	6:N:290:U:P	2.03	1.16
1:I:101:A:C2	1:I:102:A:C5	2.34	1.16
1:I:134:A:C6	1:I:135:A:N6	2.11	1.16
2:J:173:A:H2'	2:J:174:A:C8	1.80	1.16
3:K:45:A:O3'	3:K:46:A:P	2.03	1.16
3:K:89:A:C2	3:K:90:A:C5	2.33	1.16
3:K:154:A:H2'	3:K:155:A:O4'	1.43	1.16
3:K:192:A:H2'	3:K:193:A:C8	1.80	1.16
4:L:440:U:O3'	4:L:441:U:P	2.04	1.16
4:L:673:U:C2'	4:L:674:U:H5'	1.76	1.16
6:N:279:U:H3'	6:N:280:U:P	1.83	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:73:A:O2'	1:I:74:A:C4'	1.92	1.16
1:I:129:A:O2'	1:I:130:A:H5'	0.99	1.16
1:I:246:A:O2'	1:I:247:A:H5'	1.44	1.16
1:I:353:A:C2'	1:I:354:A:C5'	2.23	1.16
2:J:29:A:H2'	2:J:30:A:C5'	1.62	1.16
2:J:103:A:O2'	2:J:104:A:H5'	0.99	1.16
2:J:216:A:C2	2:J:217:A:C5	2.33	1.16
2:J:222:A:H2'	2:J:223:A:C5'	1.72	1.16
5:M:514:U:O2'	5:M:515:U:H5'	1.43	1.16
6:N:277:U:C2'	6:N:278:U:H5'	1.74	1.16
1:I:82:A:C2'	1:I:83:A:H5'	1.73	1.16
1:I:91:A:O2'	1:I:92:A:C5'	1.93	1.16
2:J:27:A:O2'	2:J:28:A:H5'	1.42	1.16
2:J:94:A:O2'	2:J:95:A:C5'	1.92	1.16
3:K:184:A:O3'	3:K:185:A:P	2.03	1.16
4:L:504:U:O2'	4:L:505:U:H5'	1.45	1.16
4:L:521:U:O2'	4:L:522:U:H5'	1.44	1.16
5:M:407:U:N3	5:M:408:U:O4	1.77	1.16
5:M:467:U:O2'	5:M:468:U:H5'	1.45	1.16
6:N:327:U:H2'	6:N:328:U:O4'	1.40	1.16
1:I:269:A:C2'	1:I:270:A:C5'	2.23	1.16
1:I:274:A:O2'	1:I:275:A:H5'	0.98	1.16
2:J:11:A:C2'	2:J:12:A:C5'	2.24	1.16
2:J:47:A:H2'	2:J:48:A:C5'	1.68	1.16
2:J:83:A:C2	2:J:84:A:C4	2.33	1.16
2:J:156:A:O2'	2:J:157:A:H5'	1.39	1.16
4:L:585:U:C2'	4:L:586:U:H5'	1.75	1.16
6:N:455:U:O3'	6:N:456:U:P	2.04	1.16
1:I:146:A:O3'	1:I:147:A:P	2.04	1.15
4:L:451:U:O3'	4:L:452:U:P	2.03	1.15
4:L:811:U:C2'	4:L:812:U:O4'	1.92	1.15
1:I:95:A:C6	1:I:96:A:N6	2.13	1.15
1:I:296:A:O2'	1:I:297:A:H5'	1.43	1.15
2:J:81:A:O2'	2:J:82:A:H5'	1.44	1.15
3:K:33:A:O3'	3:K:34:A:P	2.03	1.15
4:L:549:U:O2'	4:L:550:U:H5'	1.43	1.15
5:M:392:U:O2'	5:M:393:U:C5'	1.95	1.15
6:N:425:U:H2'	6:N:426:U:O4'	1.42	1.15
1:I:269:A:C2'	1:I:270:A:H5'	1.66	1.15
4:L:446:U:O3'	4:L:447:U:P	2.04	1.15
4:L:549:U:H2'	4:L:550:U:O4'	1.43	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:419:U:O2'	5:M:420:U:H5'	0.99	1.15
6:N:299:U:O3'	6:N:300:U:P	2.05	1.15
6:N:341:U:O3'	6:N:342:U:P	2.03	1.15
6:N:484:U:H2'	6:N:485:U:O4'	1.46	1.15
1:I:147:A:C2'	1:I:148:A:H5'	1.75	1.15
1:I:255:A:C2'	1:I:256:A:H5'	1.75	1.15
2:J:202:A:O2'	2:J:203:A:H5'	0.99	1.15
3:K:89:A:N3	3:K:90:A:C8	2.15	1.15
4:L:650:U:O2'	4:L:651:U:H5'	1.41	1.15
5:M:489:U:C2'	5:M:490:U:H5'	1.72	1.15
6:N:518:U:O3'	6:N:519:U:P	2.03	1.15
1:I:101:A:C2	1:I:102:A:C6	2.35	1.15
1:I:140:A:C6	1:I:141:A:N6	2.14	1.15
2:J:62:A:O2'	2:J:63:A:H5'	1.47	1.15
3:K:241:A:O3'	3:K:242:A:P	2.05	1.15
4:L:807:U:H2'	4:L:808:U:C5'	1.70	1.15
1:I:106:A:O2'	1:I:107:A:P	2.04	1.14
1:I:279:A:C2'	1:I:280:A:H5'	1.76	1.14
2:J:29:A:O2'	2:J:30:A:H5'	0.97	1.14
2:J:236:A:C2	2:J:237:A:N7	2.15	1.14
4:L:572:U:O2'	4:L:573:U:H5'	0.99	1.14
4:L:661:U:O2'	4:L:662:U:C5'	1.93	1.14
5:M:346:U:O2'	5:M:347:U:C5'	1.95	1.14
6:N:520:U:O3'	6:N:521:U:P	2.05	1.14
1:I:101:A:C6	1:I:102:A:N6	2.16	1.14
1:I:129:A:O2'	1:I:130:A:C5'	1.95	1.14
1:I:252:A:O2'	1:I:253:A:C5'	1.95	1.14
2:J:161:A:O2'	2:J:162:A:H5'	1.00	1.14
6:N:279:U:C3'	6:N:280:U:P	2.35	1.14
1:I:91:A:O2'	1:I:92:A:H5'	0.96	1.14
1:I:180:A:C2	1:I:181:A:N9	2.16	1.14
2:J:89:A:C2	2:J:90:A:C5	2.35	1.14
3:K:97:A:H2'	3:K:98:A:O4'	1.47	1.14
4:L:507:U:C2'	4:L:508:U:C5'	2.25	1.14
4:L:517:U:O2'	4:L:518:U:H5'	1.46	1.14
4:L:557:U:C2'	4:L:558:U:H5'	1.71	1.14
4:L:622:U:C2'	4:L:623:U:C5'	2.25	1.14
4:L:657:U:O2'	4:L:658:U:H5'	1.45	1.14
4:L:746:U:O2'	4:L:747:U:H5'	1.48	1.14
4:L:769:U:O2'	4:L:770:U:H5'	0.98	1.14
5:M:405:U:O2'	5:M:406:U:H5'	0.99	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:364:U:O2'	6:N:365:U:H5'	1.46	1.14
6:N:403:U:O2'	6:N:404:U:H5'	1.44	1.14
1:I:109:A:H2'	1:I:110:A:H8	1.01	1.14
1:I:237:A:O2'	1:I:238:A:H5'	1.45	1.14
1:I:270:A:H2'	1:I:271:A:O4'	1.46	1.14
1:I:337:A:O2'	1:I:338:A:H5'	0.99	1.14
2:J:160:A:C2'	2:J:161:A:H5'	1.76	1.14
2:J:183:A:O2'	2:J:184:A:H5'	0.96	1.14
3:K:46:A:O2'	3:K:47:A:H5'	1.47	1.14
5:M:349:U:O2'	5:M:350:U:H5'	1.45	1.14
5:M:408:U:C2'	5:M:409:U:C5'	2.23	1.14
6:N:398:U:O2'	6:N:399:U:H5'	1.46	1.14
6:N:484:U:O3'	6:N:485:U:P	2.05	1.14
6:N:485:U:C2'	6:N:486:U:O4'	1.95	1.14
2:J:3:A:O3'	2:J:4:A:P	2.05	1.14
2:J:92:A:O2'	2:J:93:A:P	2.05	1.14
2:J:97:A:C2	2:J:98:A:C5	2.35	1.14
2:J:176:A:O2'	2:J:177:A:C5'	1.95	1.14
3:K:179:A:O3'	3:K:180:A:P	2.05	1.14
4:L:779:U:C2'	4:L:780:U:H5'	1.70	1.14
4:L:799:U:O2'	4:L:800:U:H5'	1.44	1.14
5:M:319:U:C3'	5:M:320:U:H5'	1.63	1.14
1:I:78:A:C2	1:I:79:A:C8	2.35	1.13
1:I:106:A:C2	1:I:107:A:C5	2.36	1.13
1:I:184:A:N6	1:I:185:A:H62	1.44	1.13
1:I:324:A:O2'	1:I:325:A:H5'	1.45	1.13
2:J:161:A:O2'	2:J:162:A:C5'	1.94	1.13
4:L:497:U:H2'	4:L:498:U:C5'	1.64	1.13
5:M:335:U:O4	5:M:336:U:O4	1.64	1.13
5:M:406:U:C2'	5:M:407:U:H5'	1.72	1.13
6:N:368:U:O2'	6:N:369:U:H5'	1.45	1.13
6:N:485:U:C3'	6:N:486:U:H5'	1.77	1.13
2:J:129:A:C2'	2:J:130:A:H5'	1.75	1.13
4:L:436:U:H2'	4:L:437:U:C6	1.83	1.13
4:L:507:U:O2'	4:L:508:U:H5'	0.97	1.13
4:L:674:U:O2'	4:L:675:U:C5'	1.97	1.13
4:L:766:U:H2'	4:L:767:U:C6	1.83	1.13
6:N:378:U:C4	6:N:379:U:O4	2.01	1.13
6:N:394:U:O2'	6:N:395:U:H5'	0.98	1.13
6:N:497:U:H2'	6:N:498:U:O4'	1.47	1.13
1:I:74:A:C2'	1:I:75:A:O4'	1.97	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:A:O2'	1:I:128:A:H5'	1.48	1.13
1:I:281:A:N6	1:I:282:A:N6	1.95	1.13
2:J:160:A:O2'	2:J:161:A:C5'	1.97	1.13
3:K:89:A:C2	3:K:90:A:N7	2.16	1.13
3:K:166:A:O2'	3:K:167:A:C5'	1.97	1.13
4:L:498:U:C2'	4:L:499:U:H5'	1.68	1.13
4:L:529:U:O2'	4:L:530:U:C5'	1.96	1.13
4:L:698:U:C2'	4:L:699:U:H5'	1.77	1.13
4:L:723:U:C6	4:L:724:U:C5	2.36	1.13
6:N:322:U:O3'	6:N:323:U:P	2.06	1.13
1:I:75:A:O2'	1:I:76:A:H5'	0.96	1.13
3:K:152:A:C6	3:K:153:A:N6	2.17	1.13
4:L:692:U:O2'	4:L:693:U:C5'	1.97	1.13
5:M:526:U:C2'	5:M:527:U:H5'	1.73	1.13
6:N:342:U:O2'	6:N:343:U:H5'	1.47	1.13
6:N:400:U:C2'	6:N:401:U:H5'	1.79	1.13
2:J:88:A:O2'	2:J:89:A:H5'	0.96	1.13
4:L:554:U:O2	4:L:555:U:C6	2.02	1.12
4:L:688:U:O2'	4:L:689:U:H5'	0.97	1.12
4:L:694:U:H2'	4:L:695:U:C5'	1.77	1.12
6:N:462:U:O2'	6:N:463:U:H5'	1.46	1.13
5:M:364:U:O2'	5:M:365:U:H5'	1.48	1.12
5:M:431:U:O2'	5:M:432:U:H5'	1.47	1.12
5:M:457:U:O2'	5:M:458:U:H5'	1.48	1.12
1:I:48:A:O2'	1:I:49:A:H5'	1.48	1.12
1:I:81:A:O2'	1:I:82:A:C5'	1.96	1.12
1:I:90:A:O2'	1:I:91:A:H5'	1.49	1.12
1:I:160:A:O2'	1:I:161:A:H5'	1.49	1.12
1:I:353:A:O2'	1:I:354:A:C5'	1.97	1.12
2:J:44:A:O2'	2:J:45:A:H5'	1.50	1.12
4:L:627:U:O2'	4:L:628:U:H5'	1.49	1.12
4:L:715:U:O2'	4:L:716:U:H5'	1.37	1.12
4:L:765:U:H2'	4:L:766:U:C5'	1.78	1.12
5:M:406:U:C2'	5:M:407:U:C5'	2.27	1.12
1:I:86:A:C5	1:I:87:A:N7	2.17	1.12
1:I:106:A:O2'	1:I:107:A:O5'	1.66	1.12
1:I:230:A:C2'	1:I:231:A:H5'	1.70	1.12
2:J:79:A:C2'	2:J:80:A:H5'	1.75	1.12
2:J:165:A:C2	2:J:166:A:C5	2.37	1.12
3:K:127:A:O2'	3:K:128:A:H5'	1.45	1.12
4:L:467:U:O2'	4:L:468:U:H5'	1.47	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:557:U:C2'	4:L:558:U:C5'	2.23	1.12
4:L:759:U:H2'	4:L:760:U:C5'	1.68	1.12
5:M:319:U:O2'	5:M:320:U:C5'	1.93	1.12
5:M:465:U:C2'	5:M:466:U:H5'	1.79	1.12
1:I:52:A:O2'	1:I:53:A:H5'	1.48	1.12
1:I:138:A:C2'	1:I:139:A:C5'	2.26	1.12
1:I:163:A:O2'	1:I:164:A:H5'	0.95	1.12
1:I:101:A:N3	1:I:102:A:N7	1.96	1.12
1:I:175:A:C2	1:I:176:A:N7	2.16	1.12
1:I:283:A:N3	1:I:284:A:C8	2.17	1.12
2:J:50:A:O2'	2:J:51:A:H5'	1.47	1.12
2:J:119:A:N6	2:J:120:A:H62	1.44	1.12
2:J:170:A:O2'	2:J:171:A:H5'	1.49	1.12
2:J:206:A:O2'	2:J:207:A:H5'	0.94	1.12
3:K:41:A:O2'	3:K:42:A:H5'	1.46	1.12
3:K:63:A:O2'	3:K:64:A:H5'	1.49	1.12
4:L:484:U:C2'	4:L:485:U:H5'	1.79	1.12
4:L:638:U:H2'	4:L:639:U:C5'	1.64	1.12
4:L:742:U:O2	4:L:743:U:C5	2.01	1.12
5:M:322:U:O2'	5:M:323:U:C5'	1.96	1.12
6:N:379:U:C2'	6:N:380:U:C5'	2.27	1.12
6:N:425:U:C2'	6:N:426:U:H6	1.61	1.12
1:I:13:A:H2'	1:I:14:A:O4'	1.50	1.11
1:I:73:A:O2'	1:I:74:A:H5'	1.35	1.11
1:I:106:A:O2'	1:I:107:A:H5'	1.50	1.11
1:I:233:A:C2'	1:I:234:A:H5'	1.70	1.11
1:I:268:A:C2	1:I:269:A:N9	2.18	1.11
1:I:364:A:O2'	1:I:365:A:H5'	1.50	1.11
1:I:384:A:O3'	1:I:385:A:P	2.08	1.11
2:J:70:A:H2'	2:J:71:A:C5'	1.79	1.11
2:J:89:A:C2	2:J:90:A:N7	2.16	1.11
3:K:99:A:O2'	3:K:100:A:H5'	0.97	1.11
3:K:153:A:C2	3:K:154:A:C4	2.38	1.11
3:K:259:A:O3'	3:K:260:A:P	2.08	1.11
4:L:693:U:C4	4:L:694:U:O4	2.03	1.11
4:L:729:U:C2	4:L:730:U:C5	2.38	1.11
4:L:742:U:C2	4:L:743:U:C5	2.38	1.11
6:N:383:U:O2'	6:N:384:U:H5'	1.49	1.11
1:I:64:A:O2'	1:I:65:A:H5'	1.50	1.11
1:I:96:A:N6	1:I:97:A:N6	1.98	1.11
1:I:157:A:O2'	1:I:158:A:H5'	1.50	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:306:A:O2'	1:I:307:A:H5'	0.94	1.11
2:J:160:A:C2'	2:J:161:A:C5'	2.26	1.11
2:J:231:A:N6	2:J:232:A:N6	1.99	1.11
3:K:76:A:O2'	3:K:77:A:H5'	1.48	1.11
4:L:557:U:C2	4:L:558:U:C6	2.38	1.11
5:M:350:U:C2'	5:M:351:U:C5'	2.17	1.11
1:I:287:A:C2'	1:I:288:A:C5'	2.28	1.11
1:I:315:A:O2'	1:I:316:A:H5'	1.51	1.11
1:I:342:A:C2'	1:I:343:A:H5'	1.79	1.11
2:J:119:A:C6	2:J:120:A:N6	2.18	1.11
2:J:236:A:O2'	2:J:237:A:P	2.09	1.11
4:L:513:U:O2'	4:L:514:U:H5'	1.51	1.11
4:L:724:U:C2'	4:L:725:U:C5'	2.28	1.11
4:L:751:U:H2'	4:L:752:U:H6	1.07	1.11
5:M:319:U:H2'	5:M:320:U:O4'	1.48	1.11
5:M:333:U:C2'	5:M:334:U:C5'	2.28	1.11
5:M:406:U:O2'	5:M:407:U:H5'	1.47	1.11
6:N:484:U:C2'	6:N:485:U:H5'	1.79	1.11
1:I:9:A:O2'	1:I:10:A:H5'	1.50	1.11
1:I:87:A:C2'	1:I:88:A:H5'	1.81	1.11
1:I:143:A:H2'	1:I:144:A:C8	1.84	1.11
2:J:171:A:C2	2:J:172:A:C5	2.38	1.11
4:L:743:U:O2'	4:L:744:U:H5'	0.95	1.11
4:L:746:U:C2	4:L:747:U:C5	2.39	1.11
5:M:296:U:C2'	5:M:297:U:H5'	1.81	1.11
5:M:318:U:C2'	5:M:319:U:C5'	2.28	1.11
5:M:327:U:O2'	5:M:328:U:P	2.07	1.11
5:M:541:U:O2'	5:M:542:U:H5'	1.50	1.11
6:N:430:U:O2'	6:N:431:U:H5'	1.48	1.11
1:I:122:A:O2'	1:I:123:A:C5'	1.97	1.11
1:I:156:A:H2'	1:I:157:A:C8	1.84	1.11
2:J:136:A:C2	2:J:137:A:N9	2.19	1.11
3:K:88:A:C2	3:K:89:A:C8	2.38	1.11
5:M:435:U:O2'	5:M:436:U:O5'	1.68	1.11
5:M:520:U:O2'	5:M:521:U:H5'	1.50	1.11
5:M:544:U:O2'	5:M:545:U:H5'	0.95	1.11
6:N:293:U:H2'	6:N:294:U:C6	1.85	1.11
1:I:320:A:O2'	1:I:321:A:H5'	1.51	1.10
3:K:74:A:O3'	3:K:75:A:P	2.09	1.10
3:K:88:A:O2'	3:K:89:A:H5'	1.49	1.10
4:L:618:U:O2'	4:L:619:U:H5'	1.51	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:337:U:O2'	5:M:338:U:C5'	1.94	1.10
2:J:39:A:O2'	2:J:40:A:H5'	1.48	1.10
4:L:580:U:O2'	4:L:581:U:H5'	1.49	1.10
4:L:712:U:C2	4:L:713:U:C6	2.39	1.10
4:L:724:U:O2'	4:L:725:U:H5'	1.49	1.10
4:L:758:U:N3	4:L:759:U:C5	2.20	1.10
5:M:298:U:O2'	5:M:299:U:H5'	1.47	1.10
5:M:382:U:O2'	5:M:383:U:C5'	2.00	1.10
1:I:336:A:O2'	1:I:337:A:H5'	1.50	1.10
1:I:405:A:N6	1:I:406:A:N6	2.00	1.10
2:J:89:A:O2'	2:J:90:A:P	2.08	1.10
3:K:49:A:O2'	3:K:50:A:H5'	1.51	1.10
3:K:125:A:O2'	3:K:126:A:C5'	1.98	1.10
4:L:494:U:O2'	4:L:495:U:H5'	1.50	1.10
4:L:569:U:O2'	4:L:570:U:H5'	1.50	1.10
4:L:812:U:C2'	4:L:813:U:H5'	1.73	1.10
5:M:322:U:C2'	5:M:323:U:C5'	2.29	1.10
5:M:348:U:H2'	5:M:349:U:H6	1.11	1.10
5:M:430:U:C4	5:M:431:U:O4	2.04	1.10
6:N:466:U:O2'	6:N:467:U:H5'	1.49	1.10
6:N:467:U:O2'	6:N:468:U:H5'	0.93	1.10
1:I:70:A:O2'	1:I:71:A:H5'	1.48	1.10
1:I:134:A:N3	1:I:135:A:C8	2.19	1.10
1:I:323:A:H2'	1:I:324:A:C5'	1.69	1.10
2:J:83:A:C4	2:J:84:A:N7	2.20	1.10
2:J:94:A:C2'	2:J:95:A:H5'	1.82	1.10
2:J:171:A:H2'	2:J:172:A:C8	1.86	1.10
4:L:524:U:O2'	4:L:525:U:H5'	1.46	1.10
4:L:736:U:O2'	4:L:737:U:C5'	2.00	1.10
5:M:333:U:O2'	5:M:334:U:C5'	2.00	1.10
6:N:279:U:O3'	6:N:280:U:P	2.10	1.10
1:I:44:A:O2'	1:I:45:A:H5'	1.52	1.10
2:J:97:A:O2'	2:J:98:A:P	2.10	1.10
2:J:100:A:O2'	2:J:101:A:C5'	2.00	1.10
3:K:124:A:N3	3:K:125:A:N7	2.00	1.10
3:K:253:A:H2'	3:K:254:A:C5'	1.79	1.10
4:L:634:U:C2'	4:L:635:U:H5'	1.78	1.10
4:L:678:U:O3'	4:L:679:U:P	2.10	1.10
4:L:681:U:H2'	4:L:682:U:C6	1.86	1.10
5:M:290:U:O2'	5:M:291:U:H5'	1.51	1.10
5:M:526:U:O2'	5:M:527:U:C5'	1.99	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:516:U:O3'	6:N:517:U:P	2.09	1.10
1:I:58:A:H2'	1:I:59:A:C8	1.85	1.09
1:I:88:A:O2'	1:I:89:A:C5'	2.00	1.09
2:J:56:A:H2'	2:J:57:A:C5'	1.80	1.09
2:J:230:A:O2'	2:J:231:A:C5'	1.99	1.09
3:K:100:A:C2'	3:K:101:A:H5'	1.63	1.09
3:K:167:A:C5	3:K:168:A:N7	2.20	1.09
4:L:775:U:C2'	4:L:776:U:H5'	1.81	1.09
5:M:336:U:C4	5:M:337:U:C4	2.40	1.09
5:M:522:U:O2'	5:M:523:U:H5'	1.49	1.09
6:N:379:U:C2'	6:N:380:U:H5'	1.66	1.09
1:I:17:A:C2	1:I:18:A:C8	2.41	1.09
1:I:175:A:N3	1:I:176:A:C8	2.20	1.09
1:I:236:A:O2'	1:I:237:A:C5'	2.01	1.09
1:I:358:A:O2'	1:I:359:A:P	2.09	1.09
2:J:143:A:C2	2:J:144:A:C8	2.40	1.09
2:J:229:A:C2'	2:J:230:A:H5'	1.82	1.09
3:K:77:A:O2'	3:K:78:A:H5'	1.51	1.09
3:K:85:A:O2'	3:K:86:A:H5'	1.52	1.09
3:K:242:A:O3'	3:K:243:A:P	2.10	1.09
4:L:563:U:H2'	4:L:564:U:H6	1.03	1.09
4:L:698:U:O2'	4:L:699:U:C5'	1.99	1.09
4:L:746:U:O2'	4:L:747:U:C5'	2.00	1.09
5:M:396:U:C2'	5:M:397:U:H5'	1.82	1.09
1:I:102:A:H2'	1:I:103:A:C8	1.88	1.09
1:I:106:A:C2	1:I:107:A:C4	2.40	1.09
1:I:193:A:O2'	1:I:194:A:H5'	1.50	1.09
1:I:326:A:O2'	1:I:327:A:H5'	1.53	1.09
2:J:92:A:C2	2:J:93:A:N7	2.19	1.09
2:J:127:A:C2'	2:J:128:A:H5'	1.81	1.09
4:L:466:U:O2'	4:L:467:U:C5'	1.99	1.09
4:L:588:U:O2'	4:L:589:U:C5'	2.00	1.09
4:L:746:U:O2'	4:L:747:U:P	2.09	1.09
5:M:453:U:H2'	5:M:454:U:C6	1.87	1.09
5:M:505:U:O2'	5:M:506:U:H5'	0.92	1.09
6:N:440:U:O2'	6:N:441:U:C5'	2.01	1.09
1:I:186:A:C2	1:I:187:A:C5	2.41	1.09
1:I:270:A:O2'	1:I:271:A:C5'	2.01	1.09
2:J:84:A:O2'	2:J:85:A:H5'	1.49	1.09
2:J:143:A:N3	2:J:144:A:C8	2.19	1.09
2:J:214:A:O2'	2:J:215:A:C5'	2.00	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:223:A:C2'	2:J:224:A:H5'	1.82	1.09
3:K:252:A:O3'	3:K:253:A:P	2.10	1.09
4:L:459:U:O2'	4:L:460:U:H5'	1.50	1.09
4:L:695:U:O2'	4:L:696:U:C5'	2.00	1.09
4:L:734:U:O2'	4:L:735:U:H5'	1.51	1.09
6:N:426:U:O2'	6:N:427:U:H5'	0.92	1.09
1:I:14:A:C2'	1:I:15:A:O4'	2.00	1.09
1:I:82:A:C2'	1:I:83:A:C5'	2.27	1.09
1:I:94:A:O2'	1:I:95:A:H5'	1.52	1.09
1:I:119:A:C2'	1:I:120:A:C5'	2.28	1.09
1:I:136:A:H2'	1:I:137:A:C5'	1.82	1.09
1:I:142:A:O2'	1:I:143:A:C5'	1.99	1.09
1:I:240:A:C2	1:I:241:A:C5	2.40	1.09
1:I:311:A:O2'	1:I:312:A:H5'	1.51	1.09
2:J:127:A:O2'	2:J:128:A:H5'	0.91	1.09
2:J:133:A:O2'	2:J:134:A:H5'	0.93	1.09
2:J:265:A:N3	2:J:266:A:C8	2.21	1.09
3:K:117:A:C2	3:K:118:A:C5	2.40	1.09
4:L:751:U:O2'	4:L:752:U:C5'	2.00	1.09
4:L:751:U:H2'	4:L:752:U:C6	1.86	1.09
5:M:392:U:C2'	5:M:393:U:C5'	2.31	1.09
5:M:448:U:C2'	5:M:449:U:H5'	1.81	1.09
1:I:63:A:N6	1:I:64:A:N6	2.01	1.08
1:I:67:A:N6	1:I:68:A:N6	1.99	1.08
1:I:109:A:H2'	1:I:110:A:C8	1.88	1.08
3:K:106:A:H2'	3:K:107:A:C8	1.87	1.08
3:K:156:A:O2'	3:K:157:A:C5'	2.01	1.08
3:K:168:A:O2'	3:K:169:A:C5'	1.92	1.08
4:L:739:U:O2'	4:L:740:U:H5'	0.92	1.08
4:L:815:U:C2'	4:L:816:U:H5'	1.81	1.08
5:M:455:U:C2'	5:M:456:U:H5'	1.78	1.08
5:M:477:U:O2'	5:M:478:U:H5'	1.52	1.08
5:M:489:U:C2'	5:M:490:U:C5'	2.30	1.08
6:N:431:U:O2'	6:N:432:U:H5'	0.93	1.08
6:N:519:U:O3'	6:N:520:U:P	2.11	1.08
1:I:172:A:O2'	1:I:173:A:C5'	2.00	1.08
1:I:196:A:O2'	1:I:197:A:H5'	1.49	1.08
2:J:11:A:O2'	2:J:12:A:C5'	2.02	1.08
2:J:106:A:O2'	2:J:107:A:H5'	1.52	1.08
3:K:71:A:H2'	3:K:72:A:H8	1.05	1.08
4:L:705:U:C2'	4:L:706:U:C5'	2.29	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:757:U:H2'	4:L:758:U:H6	1.03	1.08
6:N:323:U:O2'	6:N:324:U:H5'	1.53	1.08
6:N:327:U:O2'	6:N:328:U:H5'	1.53	1.08
1:I:230:A:C2'	1:I:231:A:C5'	2.29	1.08
1:I:266:A:C2	1:I:267:A:N9	2.20	1.08
1:I:342:A:O2'	1:I:343:A:H5'	1.53	1.08
2:J:8:A:C2'	2:J:9:A:H5'	1.84	1.08
2:J:56:A:O2'	2:J:57:A:H5'	0.92	1.08
2:J:136:A:N3	2:J:137:A:C8	2.21	1.08
4:L:421:U:O2'	4:L:422:U:H5'	1.51	1.08
4:L:501:U:O2'	4:L:502:U:C5'	2.01	1.08
4:L:693:U:C2	4:L:694:U:C5	2.40	1.08
4:L:711:U:H2'	4:L:712:U:C6	1.87	1.08
4:L:711:U:H2'	4:L:712:U:O4'	1.51	1.08
5:M:452:U:O2'	5:M:453:U:C5'	2.02	1.08
5:M:510:U:O2'	5:M:511:U:H5'	1.51	1.08
6:N:434:U:H2'	6:N:435:U:H6	1.15	1.08
1:I:85:A:O2'	1:I:86:A:H5'	0.90	1.08
1:I:166:A:O2'	1:I:167:A:H5'	1.51	1.08
1:I:262:A:C2'	1:I:263:A:H5'	1.82	1.08
1:I:273:A:O2'	1:I:274:A:H5'	1.49	1.08
1:I:287:A:O2'	1:I:288:A:C5'	2.00	1.08
1:I:358:A:N3	1:I:359:A:C8	2.21	1.08
1:I:403:A:O2'	1:I:404:A:H5'	1.54	1.08
3:K:155:A:C5	3:K:156:A:N7	2.22	1.08
4:L:546:U:H2'	4:L:547:U:H6	1.16	1.08
4:L:573:U:H2'	4:L:574:U:H6	1.12	1.08
4:L:690:U:C2	4:L:691:U:C5	2.42	1.08
4:L:723:U:C4	4:L:724:U:O4	2.05	1.08
4:L:758:U:C2'	4:L:759:U:H5'	1.82	1.08
5:M:435:U:O2	5:M:436:U:C6	2.06	1.08
5:M:509:U:O2'	5:M:510:U:H5'	1.53	1.08
1:I:78:A:O2'	1:I:79:A:P	2.11	1.08
1:I:254:A:C2'	1:I:255:A:H5'	1.84	1.08
5:M:368:U:O2'	5:M:369:U:C5'	2.02	1.08
5:M:371:U:C2'	5:M:372:U:H5'	1.83	1.08
5:M:448:U:O2'	5:M:449:U:C5'	2.02	1.08
6:N:484:U:C3'	6:N:485:U:H5'	1.84	1.08
1:I:129:A:C2'	1:I:130:A:C5'	2.30	1.07
1:I:151:A:O2'	1:I:152:A:H5'	1.54	1.07
2:J:29:A:O2'	2:J:30:A:C5'	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:204:A:C5	2:J:205:A:N7	2.22	1.07
3:K:120:A:C6	3:K:121:A:N7	2.21	1.07
4:L:459:U:C2'	4:L:460:U:H5'	1.84	1.07
4:L:660:U:O2'	4:L:661:U:H5'	1.51	1.07
4:L:728:U:O2	4:L:729:U:C5	2.06	1.07
4:L:763:U:H2'	4:L:764:U:C6	1.88	1.07
6:N:316:U:H2'	6:N:317:U:C6	1.88	1.07
1:I:65:A:H2'	1:I:66:A:C5'	1.56	1.07
1:I:134:A:C4	1:I:135:A:N7	2.22	1.07
1:I:162:A:C5	1:I:163:A:N7	2.23	1.07
2:J:30:A:O2'	2:J:31:A:H5'	1.52	1.07
2:J:160:A:H2'	2:J:161:A:O4'	1.53	1.07
3:K:120:A:C5	3:K:121:A:N7	2.22	1.07
4:L:791:U:O2'	4:L:792:U:H5'	1.54	1.07
5:M:392:U:C2'	5:M:393:U:H5'	1.83	1.07
5:M:406:U:H2'	5:M:407:U:O4'	1.50	1.07
6:N:496:U:H2'	6:N:497:U:O4'	1.55	1.07
1:I:43:A:C2	1:I:44:A:C5	2.41	1.07
1:I:82:A:O2'	1:I:83:A:H5'	1.52	1.07
2:J:97:A:C2	2:J:98:A:N7	2.23	1.07
3:K:71:A:H2'	3:K:72:A:C8	1.89	1.07
3:K:97:A:C2'	3:K:98:A:H5'	1.76	1.07
4:L:438:U:N3	4:L:439:U:O4	1.87	1.07
4:L:549:U:C2'	4:L:550:U:C5'	2.30	1.07
4:L:715:U:H2'	4:L:716:U:H6	0.96	1.07
4:L:745:U:C2	4:L:746:U:C5	2.43	1.07
4:L:746:U:C2	4:L:747:U:C6	2.42	1.07
6:N:501:U:O2'	6:N:502:U:H5'	1.53	1.07
1:I:186:A:O2'	1:I:187:A:P	2.12	1.07
2:J:130:A:C2'	2:J:131:A:H5'	1.83	1.07
2:J:147:A:O2'	2:J:148:A:C5'	2.02	1.07
2:J:216:A:C2	2:J:217:A:N7	2.22	1.07
3:K:43:A:N6	3:K:44:A:N6	2.03	1.07
3:K:165:A:H2'	3:K:166:A:C5'	1.80	1.07
4:L:613:U:O2'	4:L:614:U:H5'	1.54	1.07
4:L:635:U:O2'	4:L:636:U:H5'	1.52	1.07
5:M:311:U:O3'	5:M:312:U:P	2.12	1.07
5:M:429:U:H2'	5:M:430:U:H6	1.20	1.07
6:N:467:U:C2'	6:N:468:U:H5'	1.84	1.07
1:I:65:A:O2'	1:I:66:A:H5'	0.90	1.07
1:I:362:A:N6	1:I:363:A:N6	2.03	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:136:A:N3	2:J:137:A:N9	2.02	1.07
5:M:348:U:N3	5:M:349:U:C4	2.23	1.07
5:M:410:U:C2	5:M:411:U:C5	2.41	1.07
5:M:548:U:O3'	5:M:549:U:P	2.12	1.07
6:N:453:U:O2'	6:N:454:U:H5'	1.54	1.07
6:N:484:U:O2'	6:N:485:U:H5'	1.54	1.07
1:I:131:A:N6	1:I:132:A:H62	1.37	1.06
1:I:296:A:C2'	1:I:297:A:H5'	1.84	1.06
1:I:333:A:C2	1:I:334:A:N9	2.22	1.06
1:I:333:A:C2	1:I:334:A:C4	2.42	1.06
3:K:203:A:N3	3:K:204:A:N7	2.03	1.06
3:K:253:A:O2'	3:K:254:A:C5'	2.03	1.06
4:L:561:U:O2'	4:L:562:U:H5'	1.54	1.06
4:L:573:U:H2'	4:L:574:U:C6	1.88	1.06
4:L:722:U:N3	4:L:723:U:O4	1.88	1.06
4:L:778:U:O2'	4:L:779:U:H5'	1.55	1.06
5:M:425:U:O2'	5:M:426:U:C5'	2.03	1.06
1:I:109:A:O2'	1:I:110:A:H5'	1.44	1.06
1:I:240:A:O2'	1:I:241:A:P	2.13	1.06
4:L:639:U:O2'	4:L:640:U:H5'	1.52	1.06
5:M:296:U:O2'	5:M:297:U:H5'	1.55	1.06
5:M:335:U:C4	5:M:336:U:C5	2.44	1.06
5:M:368:U:H2'	5:M:369:U:C5'	1.80	1.06
5:M:489:U:O2'	5:M:490:U:H5'	1.53	1.06
6:N:339:U:O2'	6:N:340:U:H5'	1.56	1.06
1:I:43:A:N3	1:I:44:A:C8	2.23	1.06
1:I:95:A:N3	1:I:96:A:N7	2.02	1.06
1:I:133:A:H2'	1:I:134:A:O4'	1.55	1.06
1:I:337:A:C2'	1:I:338:A:H5'	1.84	1.06
1:I:361:A:O2'	1:I:362:A:C5'	2.02	1.06
2:J:89:A:N3	2:J:90:A:C8	2.24	1.06
2:J:205:A:H2'	2:J:206:A:C5'	1.80	1.06
3:K:97:A:C2'	3:K:98:A:C5'	2.34	1.06
3:K:120:A:C2'	3:K:121:A:H5'	1.85	1.06
4:L:771:U:O2'	4:L:772:U:H5'	1.53	1.06
4:L:777:U:O2'	4:L:778:U:H5'	1.55	1.06
5:M:405:U:H2'	5:M:406:U:O4'	1.55	1.06
5:M:531:U:H2'	5:M:532:U:C5'	1.82	1.06
6:N:304:U:H2'	6:N:305:U:C6	1.91	1.06
6:N:376:U:H2'	6:N:377:U:H6	1.19	1.06
1:I:186:A:C2	1:I:187:A:C8	2.43	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:287:A:H2'	1:I:288:A:O4'	1.52	1.06
2:J:51:A:H2'	2:J:52:A:C8	1.89	1.06
2:J:69:A:O2'	2:J:70:A:C5'	2.03	1.06
2:J:97:A:N3	2:J:98:A:C8	2.23	1.06
2:J:229:A:C2'	2:J:230:A:C5'	2.33	1.06
3:K:119:A:H2'	3:K:120:A:C5'	1.59	1.06
4:L:498:U:C2'	4:L:499:U:C5'	2.31	1.06
4:L:715:U:O2'	4:L:716:U:O5'	1.70	1.06
3:K:62:A:N6	3:K:63:A:H62	1.50	1.06
3:K:165:A:O2'	3:K:166:A:C5'	1.99	1.06
4:L:546:U:H2'	4:L:547:U:C6	1.89	1.06
4:L:574:U:C2	4:L:575:U:C5	2.44	1.06
4:L:585:U:C2'	4:L:586:U:C5'	2.33	1.06
4:L:803:U:H2'	4:L:804:U:H6	1.09	1.06
4:L:811:U:H2'	4:L:812:U:C6	1.90	1.06
5:M:393:U:H2'	5:M:394:U:C6	1.90	1.06
5:M:466:U:C2'	5:M:467:U:C5'	2.33	1.06
1:I:91:A:C2'	1:I:92:A:C5'	2.32	1.05
1:I:131:A:C6	1:I:132:A:N6	2.23	1.05
1:I:175:A:N3	1:I:176:A:N7	2.04	1.05
1:I:257:A:C2'	1:I:258:A:H5'	1.85	1.05
2:J:17:A:O2'	2:J:18:A:H5'	1.54	1.05
2:J:70:A:O2'	2:J:71:A:H5'	0.89	1.05
2:J:219:A:O2'	2:J:220:A:C5'	2.03	1.05
2:J:236:A:C2	2:J:237:A:C5	2.44	1.05
4:L:598:U:O2'	4:L:599:U:H5'	1.55	1.05
4:L:811:U:C2	4:L:812:U:C6	2.43	1.05
5:M:485:U:C2'	5:M:486:U:C5'	2.32	1.05
1:I:273:A:H2'	1:I:274:A:O4'	1.54	1.05
2:J:47:A:O2'	2:J:48:A:H5'	0.88	1.05
2:J:157:A:O2'	2:J:158:A:H5'	1.55	1.05
2:J:182:A:C5	2:J:183:A:N7	2.24	1.05
4:L:517:U:C2'	4:L:518:U:H5'	1.80	1.05
5:M:428:U:C2'	5:M:429:U:C5'	2.29	1.05
5:M:526:U:C2'	5:M:527:U:C5'	2.31	1.05
6:N:326:U:H2'	6:N:327:U:C6	1.89	1.05
6:N:376:U:H2'	6:N:377:U:C6	1.91	1.05
6:N:416:U:H2'	6:N:417:U:O4'	1.27	1.05
6:N:449:U:C2'	6:N:450:U:H5'	1.85	1.05
6:N:459:U:H2'	6:N:460:U:C6	1.91	1.05
6:N:487:U:C4	6:N:488:U:O4	2.07	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:41:A:O2'	1:I:42:A:H5'	1.56	1.05
1:I:189:A:O2'	1:I:190:A:H5'	1.55	1.05
1:I:257:A:O2'	1:I:258:A:C5'	2.04	1.05
1:I:317:A:O2'	1:I:318:A:C5'	2.04	1.05
2:J:99:A:H2'	2:J:100:A:C8	1.90	1.05
2:J:142:A:N6	2:J:143:A:N6	2.03	1.05
3:K:118:A:H2'	3:K:119:A:C5'	1.80	1.05
3:K:168:A:H2'	3:K:169:A:C5'	1.84	1.05
4:L:758:U:C2	4:L:759:U:C6	2.45	1.05
5:M:432:U:O2'	5:M:433:U:C5'	2.05	1.05
5:M:511:U:H2'	5:M:512:U:O4'	1.56	1.05
5:M:513:U:O2'	5:M:514:U:H5'	1.54	1.05
6:N:281:U:C2'	6:N:282:U:H5'	1.87	1.05
1:I:150:A:O2'	1:I:151:A:H5'	1.54	1.05
1:I:268:A:C2	1:I:269:A:C4	2.44	1.05
2:J:121:A:O2'	2:J:122:A:H5'	1.57	1.05
2:J:132:A:C2'	2:J:133:A:H5'	1.86	1.05
4:L:604:U:O2'	4:L:605:U:H5'	1.52	1.05
4:L:737:U:O2'	4:L:738:U:H5'	1.57	1.05
5:M:300:U:O2'	5:M:301:U:H5'	1.56	1.05
5:M:312:U:O3'	5:M:313:U:P	2.14	1.05
5:M:319:U:H2'	5:M:320:U:C5'	1.76	1.05
5:M:348:U:C4	5:M:349:U:O4	2.08	1.05
5:M:457:U:C2'	5:M:458:U:H5'	1.86	1.05
5:M:494:U:O2'	5:M:495:U:C5'	2.05	1.05
6:N:277:U:O2'	6:N:278:U:C5'	2.04	1.05
6:N:294:U:O2'	6:N:295:U:H5'	1.56	1.05
6:N:486:U:H2'	6:N:487:U:C6	1.92	1.05
6:N:510:U:O3'	6:N:511:U:P	2.14	1.05
1:I:15:A:O2'	1:I:16:A:H5'	1.56	1.05
1:I:43:A:O2'	1:I:44:A:P	2.14	1.05
2:J:32:A:O2'	2:J:33:A:H5'	1.55	1.05
2:J:216:A:N3	2:J:217:A:N7	2.04	1.05
3:K:103:A:O2'	3:K:104:A:H5'	1.56	1.05
4:L:768:U:O2'	4:L:769:U:H5'	0.88	1.05
6:N:474:U:O2'	6:N:475:U:H5'	1.57	1.05
1:I:79:A:O2'	1:I:80:A:H5'	1.55	1.04
1:I:248:A:O2'	1:I:249:A:C5'	2.03	1.04
2:J:58:A:O2'	2:J:59:A:C5'	2.05	1.04
3:K:191:A:O2'	3:K:192:A:H5'	1.57	1.04
4:L:660:U:H2'	4:L:661:U:O4'	1.54	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:722:U:C2'	4:L:723:U:C6	2.40	1.04
5:M:458:U:H2'	5:M:459:U:C5'	1.87	1.04
5:M:524:U:C2	5:M:525:U:C5	2.44	1.04
6:N:317:U:H2'	6:N:318:U:C6	1.92	1.04
1:I:70:A:C2'	1:I:71:A:H5'	1.87	1.04
1:I:180:A:C2	1:I:181:A:C8	2.45	1.04
1:I:186:A:C2	1:I:187:A:N7	2.25	1.04
2:J:54:A:H2'	2:J:55:A:O4'	1.55	1.04
3:K:99:A:H2'	3:K:100:A:C5'	1.86	1.04
4:L:448:U:C4	4:L:449:U:O4	2.10	1.04
4:L:567:U:O2'	4:L:568:U:C5'	2.05	1.04
6:N:311:U:C2'	6:N:312:U:O4'	2.03	1.04
6:N:425:U:C2'	6:N:426:U:C6	2.37	1.04
1:I:59:A:O2'	1:I:60:A:H5'	1.55	1.04
1:I:74:A:C4	1:I:75:A:C8	2.45	1.04
1:I:133:A:H2'	1:I:134:A:C5'	1.84	1.04
1:I:242:A:C2	1:I:243:A:C4	2.46	1.04
1:I:283:A:C2	1:I:284:A:N7	2.25	1.04
1:I:330:A:C2'	1:I:331:A:H5'	1.86	1.04
2:J:83:A:O2'	2:J:84:A:P	2.16	1.04
2:J:147:A:O2'	2:J:148:A:H5'	1.56	1.04
2:J:242:A:O3'	2:J:243:A:P	2.14	1.04
3:K:117:A:O2'	3:K:118:A:P	2.14	1.04
3:K:168:A:H2'	3:K:169:A:O4'	1.54	1.04
3:K:168:A:C3'	3:K:169:A:H5'	1.75	1.04
4:L:488:U:C2'	4:L:489:U:H5'	1.88	1.04
4:L:570:U:O2'	4:L:571:U:H5'	1.58	1.04
4:L:673:U:O2'	4:L:674:U:C5'	2.04	1.04
4:L:706:U:C4	4:L:707:U:C5	2.44	1.04
6:N:412:U:C2'	6:N:413:U:H5'	1.87	1.04
6:N:485:U:C2'	6:N:486:U:H5'	1.87	1.04
1:I:4:A:H2'	1:I:5:A:C8	1.92	1.04
1:I:164:A:C2	1:I:165:A:C5	2.46	1.04
1:I:325:A:N6	1:I:326:A:N6	2.05	1.04
2:J:43:A:H2'	2:J:44:A:O4'	1.57	1.04
2:J:218:A:O2'	2:J:219:A:C5'	2.04	1.04
3:K:45:A:O3'	3:K:46:A:H5'	1.58	1.04
3:K:96:A:O2'	3:K:97:A:H5'	1.58	1.04
3:K:100:A:H2'	3:K:101:A:O4'	1.57	1.04
4:L:779:U:C2'	4:L:780:U:C5'	2.32	1.04
4:L:804:U:H2'	4:L:805:U:H6	1.20	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:407:U:C2	5:M:408:U:C5	2.46	1.04
5:M:483:U:O2'	5:M:484:U:C5'	2.05	1.04
6:N:417:U:H2'	6:N:418:U:O4'	1.58	1.04
1:I:21:A:H2'	1:I:22:A:C8	1.92	1.04
1:I:134:A:N6	1:I:135:A:N6	2.04	1.04
1:I:273:A:C2'	1:I:274:A:C5'	2.35	1.04
2:J:28:A:N6	2:J:29:A:N6	2.06	1.04
2:J:122:A:C6	2:J:123:A:N6	2.25	1.04
2:J:230:A:C2'	2:J:231:A:H5'	1.88	1.04
3:K:38:A:O2'	3:K:39:A:H5'	1.58	1.04
4:L:541:U:O2'	4:L:542:U:H5'	1.58	1.04
4:L:634:U:C2'	4:L:635:U:C5'	2.35	1.04
4:L:814:U:O2'	4:L:815:U:C5'	2.06	1.04
5:M:433:U:O4	5:M:434:U:O4	1.73	1.04
1:I:43:A:C2	1:I:44:A:N7	2.26	1.03
1:I:179:A:C5	1:I:180:A:N7	2.25	1.03
1:I:258:A:C2'	1:I:259:A:H5'	1.88	1.03
1:I:278:A:H2'	1:I:279:A:O4'	1.56	1.03
2:J:92:A:N3	2:J:93:A:C8	2.25	1.03
2:J:117:A:H2'	2:J:118:A:H8	1.20	1.03
3:K:142:A:H2'	3:K:143:A:H8	1.17	1.03
4:L:645:U:C2	4:L:646:U:C5	2.47	1.03
4:L:722:U:C2'	4:L:723:U:C5	2.40	1.03
5:M:450:U:H2'	5:M:451:U:C6	1.93	1.03
6:N:320:U:O2'	6:N:321:U:C5'	2.05	1.03
6:N:524:U:O3'	6:N:525:U:P	2.15	1.03
1:I:68:A:C2'	1:I:69:A:C5'	2.34	1.03
1:I:95:A:C2	1:I:96:A:N7	2.24	1.03
1:I:284:A:O2'	1:I:285:A:H5'	0.87	1.03
1:I:373:A:N6	1:I:374:A:H62	1.50	1.03
2:J:210:A:C2'	2:J:211:A:H5'	1.87	1.03
4:L:649:U:C2'	4:L:650:U:H5'	1.84	1.03
4:L:812:U:C2'	4:L:813:U:C5'	2.31	1.03
5:M:444:U:C2	5:M:445:U:C5	2.46	1.03
6:N:475:U:O2'	6:N:476:U:H5'	1.57	1.03
1:I:14:A:O2'	1:I:15:A:H5'	1.58	1.03
1:I:112:A:H2'	1:I:113:A:C8	1.94	1.03
1:I:183:A:C2	1:I:184:A:N9	2.26	1.03
1:I:244:A:O2'	1:I:245:A:H5'	1.56	1.03
1:I:271:A:C2	1:I:272:A:C4	2.47	1.03
1:I:357:A:O2'	1:I:358:A:H5'	1.58	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:450:U:O2'	4:L:451:U:H5'	1.56	1.03
4:L:540:U:O2'	4:L:541:U:C5'	2.05	1.03
4:L:634:U:O2'	4:L:635:U:C5'	2.06	1.03
5:M:466:U:O2'	5:M:467:U:H5'	1.58	1.03
6:N:400:U:HO2'	6:N:401:U:H5'	1.22	1.03
6:N:417:U:C2'	6:N:418:U:H5'	1.82	1.03
1:I:183:A:C2	1:I:184:A:C4	2.47	1.03
1:I:194:A:N6	1:I:195:A:N6	2.07	1.03
1:I:202:A:O2'	1:I:203:A:H5'	0.86	1.03
3:K:234:A:N6	3:K:235:A:N6	2.07	1.03
4:L:449:U:O2'	4:L:450:U:H5'	1.56	1.03
4:L:509:U:O2'	4:L:510:U:H5'	1.59	1.03
4:L:690:U:C4	4:L:691:U:O4	2.12	1.03
4:L:750:U:O2	4:L:751:U:C5	2.09	1.03
4:L:757:U:N3	4:L:758:U:C4	2.26	1.03
5:M:336:U:C2	5:M:337:U:C6	2.47	1.03
5:M:347:U:O2'	5:M:348:U:H5'	0.85	1.03
5:M:435:U:H2'	5:M:436:U:H6	1.22	1.03
5:M:482:U:O2'	5:M:483:U:C5'	2.06	1.03
6:N:417:U:C2'	6:N:418:U:C5'	2.33	1.03
6:N:481:U:C2'	6:N:482:U:H5'	1.87	1.03
1:I:103:A:O2'	1:I:104:A:O5'	1.77	1.03
1:I:112:A:H2'	1:I:113:A:H8	1.22	1.03
1:I:230:A:O2'	1:I:231:A:C5'	2.06	1.03
1:I:238:A:N6	1:I:239:A:N6	2.07	1.03
1:I:249:A:C2	1:I:250:A:C4	2.46	1.03
2:J:101:A:N6	2:J:102:A:H62	1.51	1.03
3:K:117:A:C2	3:K:118:A:N7	2.26	1.03
3:K:131:A:N6	3:K:132:A:N6	2.06	1.03
4:L:550:U:O2'	4:L:551:U:H5'	0.85	1.03
4:L:760:U:O2'	4:L:761:U:H5'	1.58	1.03
5:M:450:U:H2'	5:M:451:U:H6	1.23	1.03
5:M:539:U:O2'	5:M:540:U:C5'	2.05	1.03
6:N:425:U:C2	6:N:426:U:C5	2.47	1.03
1:I:87:A:O2'	1:I:88:A:C5'	2.07	1.02
1:I:95:A:O2'	1:I:96:A:P	2.17	1.02
2:J:71:A:N6	2:J:72:A:N6	2.06	1.02
2:J:187:A:O2'	2:J:188:A:H5'	1.57	1.02
3:K:97:A:O2'	3:K:98:A:H5'	1.57	1.02
4:L:518:U:C2'	4:L:519:U:C5'	2.28	1.02
5:M:420:U:C2'	5:M:421:U:H5'	1.88	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:483:U:C2'	5:M:484:U:H5'	1.90	1.02
6:N:380:U:C2'	6:N:381:U:H5'	1.88	1.02
6:N:449:U:O2'	6:N:450:U:C5'	2.07	1.02
6:N:483:U:O4	6:N:484:U:O4	1.75	1.02
6:N:526:U:H2'	6:N:527:U:O4'	1.59	1.02
1:I:149:A:O3'	1:I:150:A:P	2.17	1.02
1:I:250:A:H2'	1:I:251:A:C8	1.95	1.02
1:I:253:A:N6	1:I:254:A:N6	2.07	1.02
2:J:83:A:H2'	2:J:84:A:H8	1.17	1.02
3:K:75:A:O3'	3:K:76:A:P	2.17	1.02
4:L:500:U:C2'	4:L:501:U:C5'	2.35	1.02
4:L:723:U:O4	4:L:724:U:O4	1.77	1.02
4:L:810:U:H2'	4:L:811:U:O4'	1.58	1.02
5:M:373:U:C2'	5:M:374:U:H5'	1.90	1.02
5:M:441:U:O2'	5:M:442:U:H5'	1.57	1.02
1:I:25:A:O2'	1:I:26:A:C5'	2.08	1.02
1:I:73:A:C2	1:I:74:A:C4	2.48	1.02
1:I:97:A:O2'	1:I:98:A:C5'	2.07	1.02
1:I:341:A:C2'	1:I:342:A:H5'	1.88	1.02
2:J:42:A:H2'	2:J:43:A:O4'	1.58	1.02
2:J:84:A:C2'	2:J:85:A:H5'	1.85	1.02
2:J:171:A:H2'	2:J:172:A:H8	1.21	1.02
3:K:136:A:C2'	3:K:137:A:C5'	2.34	1.02
4:L:477:U:H2'	4:L:478:U:C5'	1.83	1.02
4:L:684:U:C4	4:L:685:U:O4	2.11	1.02
4:L:820:U:H2'	4:L:821:U:C6	1.93	1.02
5:M:410:U:H2'	5:M:411:U:C6	1.94	1.02
6:N:484:U:C2'	6:N:485:U:O4'	2.07	1.02
1:I:271:A:C2	1:I:272:A:C8	2.48	1.02
2:J:90:A:O2'	2:J:91:A:H5'	1.57	1.02
2:J:222:A:O2'	2:J:223:A:C5'	2.07	1.02
3:K:49:A:O2'	3:K:50:A:C5'	2.07	1.02
4:L:500:U:O2'	4:L:501:U:C5'	2.06	1.02
4:L:622:U:O2'	4:L:623:U:H5'	0.84	1.02
4:L:723:U:C4	4:L:724:U:C5	2.44	1.02
5:M:449:U:O2'	5:M:450:U:H5'	0.85	1.02
1:I:113:A:H2'	1:I:114:A:C8	1.95	1.02
1:I:134:A:N6	1:I:135:A:H62	1.57	1.02
1:I:134:A:N1	1:I:135:A:C6	2.27	1.02
1:I:284:A:C2'	1:I:285:A:C5'	2.37	1.02
2:J:129:A:C2'	2:J:130:A:C5'	2.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:11:A:O3'	3:K:12:A:P	2.17	1.02
3:K:104:A:C2'	3:K:105:A:H5'	1.87	1.02
4:L:695:U:HO2'	4:L:696:U:H5'	1.21	1.02
5:M:465:U:O2'	5:M:466:U:H5'	1.59	1.02
6:N:434:U:H2'	6:N:435:U:C6	1.95	1.02
1:I:26:A:O2'	1:I:27:A:H5'	1.60	1.01
1:I:40:A:O3'	1:I:41:A:OP2	1.75	1.01
1:I:70:A:C2'	1:I:71:A:C5'	2.38	1.01
1:I:233:A:C2'	1:I:234:A:C5'	2.36	1.01
1:I:283:A:N3	1:I:284:A:N7	2.08	1.01
2:J:204:A:C6	2:J:205:A:N6	2.28	1.01
2:J:215:A:O2'	2:J:216:A:H5'	1.58	1.01
3:K:64:A:O2'	3:K:65:A:C5'	2.07	1.01
3:K:90:A:O2'	3:K:91:A:C5'	2.08	1.01
3:K:154:A:C4	3:K:155:A:C8	2.48	1.01
3:K:154:A:C5	3:K:155:A:N7	2.28	1.01
4:L:436:U:H2'	4:L:437:U:H6	1.17	1.01
5:M:318:U:O2'	5:M:319:U:C5'	2.08	1.01
5:M:410:U:H2'	5:M:411:U:H6	1.23	1.01
6:N:328:U:H2'	6:N:329:U:C6	1.95	1.01
6:N:425:U:O2'	6:N:426:U:O4'	1.76	1.01
6:N:440:U:H2'	6:N:441:U:C5'	1.89	1.01
1:I:15:A:C2'	1:I:16:A:C5'	2.35	1.01
1:I:46:A:C2	1:I:47:A:C5	2.46	1.01
1:I:109:A:O2'	1:I:110:A:O5'	1.77	1.01
2:J:223:A:H2'	2:J:224:A:C5'	1.88	1.01
2:J:249:A:C2'	2:J:250:A:H5'	1.88	1.01
3:K:124:A:C2	3:K:125:A:N7	2.28	1.01
3:K:203:A:O2'	3:K:204:A:P	2.16	1.01
3:K:214:A:H2'	3:K:215:A:C8	1.94	1.01
4:L:489:U:C4	4:L:490:U:O4	2.13	1.01
4:L:679:U:O3'	4:L:680:U:P	2.17	1.01
4:L:755:U:C2'	4:L:756:U:H5'	1.87	1.01
5:M:355:U:O2'	5:M:356:U:H5'	1.59	1.01
6:N:401:U:O2'	6:N:402:U:H5'	1.57	1.01
6:N:412:U:O2'	6:N:413:U:H5'	0.85	1.01
6:N:450:U:C2'	6:N:451:U:O4'	2.06	1.01
1:I:33:A:O2'	1:I:34:A:C5'	2.08	1.01
1:I:348:A:O2'	1:I:349:A:H5'	1.58	1.01
2:J:92:A:C4	2:J:93:A:N7	2.29	1.01
2:J:204:A:C6	2:J:205:A:C6	2.48	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:225:A:C2	2:J:226:A:C8	2.49	1.01
4:L:525:U:C2'	4:L:526:U:H5'	1.90	1.01
4:L:566:U:O2'	4:L:567:U:C5'	2.07	1.01
4:L:723:U:C2'	4:L:724:U:O4'	2.08	1.01
4:L:758:U:C2'	4:L:759:U:C5'	2.36	1.01
4:L:810:U:H2'	4:L:811:U:H6	1.24	1.01
4:L:810:U:O2'	4:L:811:U:H5'	1.60	1.01
4:L:821:U:O2'	4:L:822:U:H5'	1.57	1.01
5:M:407:U:N3	5:M:408:U:C4	2.29	1.01
5:M:455:U:C2'	5:M:456:U:C5'	2.37	1.01
5:M:463:U:O2'	5:M:464:U:H5'	1.58	1.01
5:M:488:U:C2'	5:M:489:U:O4'	2.08	1.01
1:I:67:A:C5	1:I:68:A:N7	2.29	1.01
1:I:75:A:C2'	1:I:76:A:C5'	2.31	1.01
1:I:78:A:O2'	1:I:79:A:H5'	1.58	1.01
1:I:291:A:C2'	1:I:292:A:H5'	1.91	1.01
2:J:166:A:H2'	2:J:167:A:H8	1.25	1.01
2:J:229:A:O2'	2:J:230:A:C4'	2.08	1.01
2:J:260:A:O2'	2:J:261:A:H5'	1.60	1.01
3:K:95:A:C2'	3:K:96:A:H5'	1.91	1.01
3:K:96:A:H2'	3:K:97:A:O4'	1.59	1.01
4:L:463:U:O2'	4:L:464:U:C5'	2.08	1.01
4:L:532:U:C2'	4:L:533:U:C5'	2.39	1.01
4:L:547:U:H2'	4:L:548:U:C6	1.95	1.01
4:L:638:U:O2'	4:L:639:U:H5'	0.84	1.01
4:L:763:U:H2'	4:L:764:U:H6	1.16	1.01
4:L:794:U:O2'	4:L:795:U:C5'	2.08	1.01
5:M:467:U:C2'	5:M:468:U:H5'	1.90	1.01
5:M:480:U:C2	5:M:481:U:C5	2.49	1.01
6:N:415:U:H2'	6:N:416:U:C6	1.95	1.01
6:N:442:U:O2'	6:N:443:U:C5'	2.09	1.01
1:I:197:A:O2'	1:I:198:A:H5'	1.59	1.01
1:I:242:A:C2	1:I:243:A:N9	2.29	1.01
1:I:277:A:H2'	1:I:278:A:C8	1.95	1.01
1:I:358:A:C2	1:I:359:A:C5	2.49	1.01
2:J:42:A:C2'	2:J:43:A:O4'	2.09	1.01
2:J:160:A:C2'	2:J:161:A:O4'	2.08	1.01
2:J:252:A:O2'	2:J:253:A:H5'	1.60	1.01
3:K:120:A:C6	3:K:121:A:C5	2.48	1.01
3:K:155:A:C4	3:K:156:A:C8	2.49	1.01
3:K:204:A:H2'	3:K:205:A:C8	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:517:U:C2'	4:L:518:U:C5'	2.38	1.01
4:L:617:U:O2'	4:L:618:U:H5'	1.60	1.01
4:L:749:U:O2'	4:L:750:U:C5'	2.07	1.01
4:L:751:U:C2'	4:L:752:U:C5'	2.38	1.01
5:M:381:U:H2'	5:M:382:U:C6	1.96	1.01
5:M:410:U:C4	5:M:411:U:O4	2.13	1.01
5:M:433:U:C2	5:M:434:U:C5	2.48	1.01
6:N:321:U:C4	6:N:322:U:O4	2.14	1.01
6:N:362:U:O2'	6:N:363:U:C5'	2.08	1.01
1:I:55:A:O2'	1:I:56:A:C5'	2.09	1.00
1:I:102:A:H2'	1:I:103:A:H8	1.25	1.00
3:K:71:A:C2	3:K:72:A:C5	2.49	1.00
3:K:107:A:O2'	3:K:108:A:C5'	2.08	1.00
3:K:112:A:N6	3:K:113:A:H62	1.52	1.00
3:K:167:A:N6	3:K:168:A:N6	2.09	1.00
4:L:435:U:H2'	4:L:436:U:O4'	1.59	1.00
4:L:510:U:C2'	4:L:511:U:H5'	1.89	1.00
4:L:718:U:O2'	4:L:719:U:H5'	0.83	1.00
5:M:313:U:O3'	5:M:314:U:P	2.19	1.00
5:M:336:U:H2'	5:M:337:U:C4'	1.91	1.00
1:I:70:A:H2'	1:I:71:A:O4'	1.62	1.00
2:J:26:A:O2'	2:J:27:A:C5'	2.09	1.00
2:J:94:A:C2'	2:J:95:A:C5'	2.39	1.00
2:J:204:A:C4	2:J:205:A:N7	2.29	1.00
3:K:131:A:N6	3:K:132:A:H62	1.60	1.00
4:L:631:U:O2'	4:L:632:U:H5'	1.59	1.00
5:M:535:U:O2'	5:M:536:U:H5'	1.61	1.00
6:N:388:U:H2'	6:N:389:U:C6	1.96	1.00
6:N:425:U:C2	6:N:426:U:C6	2.48	1.00
6:N:431:U:H2'	6:N:432:U:C5'	1.90	1.00
1:I:69:A:C2'	1:I:70:A:H5'	1.91	1.00
1:I:200:A:O2'	1:I:201:A:H5'	1.60	1.00
1:I:285:A:O2'	1:I:286:A:H5'	1.61	1.00
3:K:12:A:O3'	3:K:13:A:P	2.18	1.00
3:K:139:A:O2'	3:K:140:A:H5'	1.61	1.00
4:L:466:U:C2'	4:L:467:U:H5'	1.90	1.00
5:M:386:U:C2	5:M:387:U:C5	2.49	1.00
6:N:400:U:O2'	6:N:401:U:C5'	2.08	1.00
1:I:180:A:C2	1:I:181:A:C4	2.50	1.00
4:L:483:U:O2'	4:L:484:U:H5'	1.62	1.00
5:M:444:U:O2'	5:M:445:U:P	2.19	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:277:U:C2'	6:N:278:U:C5'	2.38	1.00
1:I:135:A:H2'	1:I:136:A:C5'	1.91	1.00
2:J:147:A:N3	2:J:148:A:C8	2.30	1.00
2:J:161:A:C2'	2:J:162:A:H5'	1.90	1.00
2:J:171:A:N3	2:J:172:A:N7	2.09	1.00
4:L:706:U:N3	4:L:707:U:C5	2.28	1.00
4:L:776:U:C2'	4:L:777:U:H5'	1.83	1.00
5:M:352:U:O2'	5:M:353:U:H5'	1.61	1.00
1:I:13:A:C2'	1:I:14:A:O4'	2.08	1.00
1:I:258:A:O2'	1:I:259:A:C5'	2.08	1.00
3:K:162:A:O2'	3:K:163:A:H5'	1.61	1.00
4:L:576:U:H2'	4:L:577:U:C5'	1.86	1.00
4:L:751:U:C2'	4:L:752:U:O4'	2.09	1.00
4:L:775:U:O2'	4:L:776:U:C5'	2.09	1.00
4:L:780:U:C2'	4:L:781:U:H5'	1.92	1.00
5:M:336:U:O2'	5:M:337:U:H5'	1.62	1.00
5:M:461:U:O2'	5:M:462:U:H5'	1.62	1.00
6:N:456:U:O3'	6:N:457:U:P	2.20	1.00
3:K:74:A:C3'	3:K:75:A:P	2.50	1.00
3:K:225:A:H2'	3:K:226:A:C8	1.97	1.00
4:L:776:U:C2'	4:L:777:U:C5'	2.40	1.00
1:I:73:A:O2'	1:I:74:A:O4'	1.74	0.99
1:I:103:A:C2	1:I:104:A:C4	2.49	0.99
1:I:129:A:H2'	1:I:130:A:C5'	1.92	0.99
1:I:181:A:N6	1:I:182:A:N6	2.09	0.99
2:J:219:A:C2'	2:J:220:A:H5'	1.92	0.99
4:L:586:U:C4	4:L:587:U:O4	2.15	0.99
4:L:669:U:O2'	4:L:670:U:H5'	1.61	0.99
4:L:804:U:H2'	4:L:805:U:C6	1.95	0.99
5:M:331:U:O2'	5:M:332:U:C5'	2.09	0.99
5:M:335:U:C2	5:M:336:U:C5	2.49	0.99
5:M:489:U:H2'	5:M:490:U:O4'	1.62	0.99
6:N:418:U:C4	6:N:419:U:O4	2.15	0.99
6:N:424:U:H2'	6:N:425:U:H6	1.01	0.99
1:I:74:A:C2'	1:I:75:A:H5'	1.76	0.99
1:I:202:A:C2'	1:I:203:A:C5'	2.35	0.99
1:I:221:A:O2'	1:I:222:A:H5'	1.61	0.99
1:I:333:A:N3	1:I:334:A:C1'	2.25	0.99
2:J:145:A:C6	2:J:146:A:C5	2.44	0.99
3:K:136:A:O2'	3:K:137:A:H5'	0.83	0.99
4:L:576:U:O2'	4:L:577:U:H5'	0.83	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:724:U:H2'	4:L:725:U:O4'	1.62	0.99
5:M:419:U:H2'	5:M:420:U:C5'	1.89	0.99
1:I:44:A:C2	1:I:45:A:C8	2.50	0.99
1:I:138:A:O2'	1:I:139:A:C5'	2.10	0.99
2:J:64:A:H2'	2:J:65:A:H8	1.27	0.99
2:J:117:A:N3	2:J:118:A:C8	2.29	0.99
5:M:303:U:O2'	5:M:304:U:H5'	1.61	0.99
5:M:335:U:N3	5:M:336:U:C4	2.30	0.99
1:I:103:A:N3	1:I:104:A:C8	2.31	0.99
2:J:13:A:C2	2:J:14:A:C8	2.49	0.99
5:M:469:U:O2	5:M:470:U:C6	2.15	0.99
5:M:510:U:C2'	5:M:511:U:O4'	2.10	0.99
1:I:66:A:C2'	1:I:67:A:H5'	1.92	0.99
1:I:109:A:C2	1:I:110:A:C5	2.51	0.99
1:I:109:A:N3	1:I:110:A:C8	2.30	0.99
2:J:147:A:C2	2:J:148:A:C5	2.50	0.99
3:K:212:A:C6	3:K:213:A:N6	2.30	0.99
4:L:698:U:C2'	4:L:699:U:C5'	2.41	0.99
6:N:438:U:O2'	6:N:439:U:H5'	1.61	0.99
1:I:27:A:O2'	1:I:28:A:H5'	1.62	0.99
1:I:119:A:C2	1:I:120:A:N9	2.31	0.99
2:J:69:A:H2'	2:J:70:A:C5'	1.90	0.99
3:K:71:A:C2	3:K:72:A:C4	2.50	0.99
3:K:239:A:O2'	3:K:240:A:H5'	1.62	0.99
5:M:416:U:H2'	5:M:417:U:H6	1.26	0.99
6:N:400:U:C2'	6:N:401:U:C5'	2.40	0.99
1:I:13:A:C4	1:I:14:A:C8	2.50	0.99
1:I:75:A:HO2'	1:I:76:A:H5'	1.18	0.99
1:I:147:A:O2'	1:I:148:A:C5'	2.10	0.99
2:J:29:A:C4	2:J:30:A:C8	2.50	0.99
3:K:110:A:H2'	3:K:111:A:C5'	1.90	0.99
3:K:170:A:O2'	3:K:171:A:H5'	1.62	0.99
5:M:449:U:C2'	5:M:450:U:H5'	1.91	0.99
6:N:406:U:H2'	6:N:407:U:O4'	1.62	0.99
6:N:448:U:O2'	6:N:449:U:H5'	1.61	0.99
1:I:250:A:C5	1:I:251:A:N7	2.30	0.99
1:I:262:A:C2'	1:I:263:A:C5'	2.40	0.99
4:L:649:U:C2'	4:L:650:U:C5'	2.40	0.99
6:N:481:U:O2'	6:N:482:U:H5'	0.82	0.99
1:I:15:A:H2'	1:I:16:A:O4'	1.63	0.99
1:I:316:A:N6	1:I:317:A:N6	2.11	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:79:A:C2'	2:J:80:A:C5'	2.40	0.99
2:J:145:A:C4	2:J:146:A:N7	2.31	0.99
4:L:552:U:C4	4:L:553:U:O4	2.15	0.99
4:L:740:U:C2'	4:L:741:U:H5'	1.90	0.99
6:N:329:U:H2'	6:N:330:U:C6	1.96	0.99
6:N:449:U:C2'	6:N:450:U:C5'	2.40	0.99
1:I:95:A:C4	1:I:96:A:N7	2.31	0.99
1:I:272:A:C6	1:I:273:A:N6	2.30	0.99
4:L:557:U:H2'	4:L:558:U:O4'	1.62	0.99
2:J:38:A:O2'	2:J:39:A:H5'	1.63	0.98
4:L:599:U:H2'	4:L:600:U:C6	1.98	0.98
4:L:715:U:O2	4:L:716:U:C6	2.15	0.98
1:I:62:A:O2'	1:I:63:A:H5'	0.81	0.98
2:J:135:A:N6	2:J:136:A:N6	2.10	0.98
2:J:165:A:N3	2:J:166:A:C8	2.29	0.98
2:J:211:A:C2'	2:J:212:A:C5'	2.41	0.98
4:L:448:U:N3	4:L:449:U:O4	1.96	0.98
4:L:676:U:C3'	4:L:677:U:P	2.51	0.98
4:L:690:U:N3	4:L:691:U:C5	2.30	0.98
4:L:772:U:O2'	4:L:773:U:H5'	1.63	0.98
4:L:811:U:C2	4:L:812:U:C5	2.52	0.98
5:M:341:U:O2'	5:M:342:U:H5'	1.62	0.98
5:M:505:U:C2'	5:M:506:U:H5'	1.92	0.98
1:I:135:A:C2'	1:I:136:A:C5'	2.38	0.98
1:I:239:A:HO2'	1:I:240:A:H5'	1.27	0.98
1:I:287:A:C2'	1:I:288:A:O4'	2.11	0.98
2:J:42:A:O2'	2:J:43:A:H5'	1.62	0.98
3:K:146:A:N3	3:K:147:A:C8	2.31	0.98
4:L:769:U:C2'	4:L:770:U:H5'	1.92	0.98
5:M:462:U:O2'	5:M:463:U:H5'	1.63	0.98
6:N:388:U:H2'	6:N:389:U:H6	1.23	0.98
2:J:11:A:H2'	2:J:12:A:O4'	1.64	0.98
2:J:211:A:HO2'	2:J:212:A:H5'	1.23	0.98
3:K:31:A:N6	3:K:32:A:H62	1.53	0.98
4:L:693:U:N3	4:L:694:U:C4	2.32	0.98
4:L:763:U:H2'	4:L:764:U:O4'	1.63	0.98
5:M:327:U:O2	5:M:328:U:C6	2.15	0.98
5:M:409:U:O2	5:M:410:U:C6	2.15	0.98
5:M:429:U:O2'	5:M:430:U:H5'	1.62	0.98
6:N:349:U:H2'	6:N:350:U:H6	1.26	0.98
6:N:484:U:C2'	6:N:485:U:C5'	2.40	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:18:A:O2'	1:I:19:A:H5'	1.62	0.98
1:I:122:A:C2'	1:I:123:A:H5'	1.92	0.98
3:K:237:A:H2'	3:K:238:A:C8	1.98	0.98
5:M:473:U:O2'	5:M:474:U:H5'	1.62	0.98
2:J:62:A:C2'	2:J:63:A:H5'	1.93	0.98
4:L:484:U:C2'	4:L:485:U:C5'	2.40	0.98
4:L:717:U:N3	4:L:718:U:O4	1.97	0.98
1:I:321:A:O2'	1:I:322:A:H5'	1.62	0.98
2:J:200:A:O2'	2:J:201:A:H5'	1.61	0.98
4:L:537:U:C2'	4:L:538:U:H5'	1.93	0.98
5:M:336:U:C5	5:M:337:U:C5	2.51	0.98
5:M:448:U:C2'	5:M:449:U:C5'	2.42	0.98
5:M:510:U:H2'	5:M:511:U:O4'	1.64	0.98
1:I:255:A:C2'	1:I:256:A:C5'	2.40	0.98
1:I:353:A:HO2'	1:I:354:A:H5'	1.22	0.98
2:J:92:A:C2	2:J:93:A:C6	2.52	0.98
3:K:65:A:N6	3:K:66:A:H62	1.58	0.98
3:K:110:A:O2'	3:K:111:A:H5'	0.81	0.98
3:K:173:A:O2'	3:K:174:A:H5'	1.64	0.98
4:L:673:U:C2'	4:L:674:U:C5'	2.41	0.98
5:M:349:U:C2'	5:M:350:U:H5'	1.89	0.98
5:M:381:U:H2'	5:M:382:U:H6	1.28	0.98
5:M:429:U:H2'	5:M:430:U:C6	1.98	0.98
1:I:211:A:O2'	1:I:212:A:H5'	1.62	0.98
4:L:683:U:H2'	4:L:684:U:C6	1.99	0.98
5:M:393:U:H2'	5:M:394:U:H6	1.26	0.98
6:N:434:U:O2'	6:N:435:U:H5'	1.64	0.98
1:I:306:A:C2'	1:I:307:A:H5'	1.94	0.98
2:J:8:A:O2'	2:J:9:A:H5'	0.81	0.98
3:K:89:A:C2	3:K:90:A:C8	2.51	0.98
3:K:156:A:C2'	3:K:157:A:O4'	2.11	0.98
4:L:556:U:O2	4:L:557:U:C6	2.17	0.98
5:M:360:U:O2'	5:M:361:U:H5'	1.64	0.98
6:N:375:U:H2'	6:N:376:U:H6	1.28	0.98
1:I:74:A:O2'	1:I:75:A:C5'	2.10	0.97
1:I:78:A:C2	1:I:79:A:N9	2.31	0.97
1:I:236:A:HO2'	1:I:237:A:H5'	1.18	0.97
1:I:271:A:H2	1:I:272:A:C4	1.82	0.97
1:I:286:A:N6	1:I:287:A:N6	2.12	0.97
3:K:100:A:C4	3:K:101:A:C8	2.51	0.97
4:L:691:U:O2'	4:L:692:U:C5'	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:812:U:O2'	4:L:813:U:C5'	2.11	0.97
5:M:334:U:C2	5:M:335:U:C6	2.52	0.97
5:M:396:U:O2'	5:M:397:U:C5'	2.11	0.97
5:M:410:U:N3	5:M:411:U:C4	2.31	0.97
5:M:518:U:O2'	5:M:519:U:H5'	1.61	0.97
6:N:426:U:C2	6:N:427:U:C6	2.51	0.97
1:I:119:A:C2	1:I:120:A:C8	2.51	0.97
1:I:179:A:N6	1:I:180:A:H62	1.39	0.97
1:I:272:A:N6	1:I:273:A:H62	1.61	0.97
2:J:166:A:C2	2:J:167:A:C4	2.52	0.97
2:J:221:A:O2'	2:J:222:A:C5'	2.12	0.97
3:K:43:A:C6	3:K:44:A:N6	2.32	0.97
3:K:104:A:C2'	3:K:105:A:C5'	2.35	0.97
4:L:652:U:O2'	4:L:653:U:C5'	2.12	0.97
4:L:715:U:C2'	4:L:716:U:H6	1.77	0.97
4:L:758:U:O2'	4:L:759:U:H5'	1.64	0.97
5:M:536:U:C2'	5:M:537:U:H5'	1.95	0.97
5:M:547:U:C2	5:M:548:U:C5	2.51	0.97
1:I:347:A:O2'	1:I:348:A:C5'	2.12	0.97
2:J:16:A:O2'	2:J:17:A:H5'	1.62	0.97
2:J:205:A:C2	2:J:206:A:C4	2.51	0.97
3:K:124:A:O2'	3:K:125:A:P	2.20	0.97
5:M:336:U:C2'	5:M:337:U:O4'	2.11	0.97
5:M:395:U:O2'	5:M:396:U:C5'	2.12	0.97
6:N:338:U:H2'	6:N:339:U:H6	1.27	0.97
1:I:376:A:C4	1:I:377:A:N7	2.33	0.97
2:J:43:A:H2'	2:J:44:A:C5'	1.93	0.97
3:K:100:A:O2'	3:K:101:A:C5'	2.11	0.97
3:K:119:A:C2	3:K:120:A:N9	2.31	0.97
4:L:690:U:N3	4:L:691:U:C4	2.31	0.97
5:M:465:U:C2'	5:M:466:U:C5'	2.42	0.97
6:N:375:U:C2	6:N:376:U:C5	2.52	0.97
1:I:78:A:O2'	1:I:79:A:C5'	2.11	0.97
2:J:138:A:N6	2:J:139:A:N6	2.13	0.97
2:J:204:A:H2'	2:J:205:A:C8	1.99	0.97
3:K:117:A:N3	3:K:118:A:C8	2.32	0.97
3:K:153:A:N3	3:K:154:A:C8	2.33	0.97
4:L:751:U:H2'	4:L:752:U:O4'	1.64	0.97
4:L:758:U:C2	4:L:759:U:C5	2.52	0.97
4:L:794:U:HO2'	4:L:795:U:H5'	1.28	0.97
5:M:350:U:H2'	5:M:351:U:C5'	1.89	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:359:A:N6	1:I:360:A:N6	2.13	0.97
3:K:120:A:C4	3:K:121:A:C8	2.52	0.97
4:L:448:U:N3	4:L:449:U:C4	2.32	0.97
4:L:601:U:O2'	4:L:602:U:H5'	1.65	0.97
4:L:647:U:C2'	4:L:648:U:H5'	1.94	0.97
4:L:718:U:H2'	4:L:719:U:H6	1.30	0.97
4:L:810:U:H2'	4:L:811:U:C6	1.99	0.97
5:M:445:U:O2'	5:M:446:U:H5'	1.64	0.97
6:N:417:U:O2'	6:N:418:U:C5'	2.12	0.97
1:I:261:A:H2'	1:I:262:A:O4'	1.63	0.97
2:J:144:A:C2	5:M:410:U:C2	2.53	0.97
2:J:202:A:C2	2:J:203:A:C8	2.52	0.97
4:L:549:U:C2'	4:L:550:U:O4'	2.13	0.97
4:L:582:U:O2	4:L:583:U:C6	2.18	0.97
4:L:629:U:O2'	4:L:630:U:H5'	1.63	0.97
5:M:396:U:C2'	5:M:397:U:C5'	2.42	0.97
5:M:460:U:C4	5:M:461:U:C4	2.52	0.97
6:N:274:U:O2'	6:N:275:U:C5'	2.13	0.97
6:N:485:U:C2'	6:N:486:U:C5'	2.43	0.97
1:I:142:A:HO2'	1:I:143:A:H5'	1.15	0.97
2:J:140:A:O2'	2:J:141:A:H5'	1.62	0.97
2:J:143:A:H2	2:J:144:A:C4	1.81	0.97
4:L:814:U:H2'	4:L:815:U:C5'	1.95	0.97
5:M:501:U:H2'	5:M:502:U:H6	1.02	0.97
2:J:217:A:C6	2:J:218:A:N6	2.32	0.97
3:K:203:A:N3	3:K:204:A:C8	2.32	0.97
4:L:637:U:H2'	4:L:638:U:H6	1.30	0.97
4:L:688:U:HO2'	4:L:689:U:H5'	1.17	0.97
4:L:766:U:C4	4:L:767:U:C4	2.53	0.97
5:M:435:U:H2'	5:M:436:U:C6	1.99	0.97
5:M:511:U:C2'	5:M:512:U:H5'	1.95	0.97
1:I:73:A:C4	1:I:74:A:C8	2.53	0.97
1:I:96:A:C6	1:I:97:A:C6	2.53	0.97
2:J:11:A:HO2'	2:J:12:A:H5'	1.17	0.97
2:J:210:A:O2'	2:J:211:A:H5'	1.63	0.97
3:K:71:A:N3	3:K:72:A:C8	2.33	0.97
3:K:81:A:O2'	3:K:82:A:C5'	2.12	0.97
5:M:428:U:O2'	5:M:429:U:H5'	0.79	0.97
5:M:433:U:N3	5:M:434:U:C4	2.33	0.97
5:M:525:U:C2'	5:M:526:U:H5'	1.94	0.97
6:N:280:U:C2'	6:N:281:U:H5'	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:324:U:H2'	6:N:325:U:C6	1.98	0.97
1:I:17:A:N3	1:I:18:A:C8	2.33	0.96
1:I:61:A:H2'	1:I:62:A:H8	1.28	0.96
3:K:250:A:C2'	3:K:251:A:H5'	1.94	0.96
4:L:488:U:O2'	4:L:489:U:C5'	2.12	0.96
4:L:537:U:O2'	4:L:538:U:C5'	2.11	0.96
5:M:319:U:H2'	5:M:320:U:C4'	1.95	0.96
5:M:335:U:N3	5:M:336:U:C5	2.33	0.96
5:M:488:U:C2	5:M:489:U:C6	2.53	0.96
1:I:323:A:C2	1:I:324:A:N9	2.33	0.96
2:J:93:A:O2'	2:J:94:A:H5'	1.64	0.96
2:J:202:A:HO2'	2:J:203:A:H5'	1.16	0.96
3:K:146:A:C2	3:K:147:A:C5	2.52	0.96
5:M:387:U:H2'	5:M:388:U:H6	1.30	0.96
1:I:103:A:HO2'	1:I:104:A:H5'	1.23	0.96
1:I:161:A:C2'	1:I:162:A:H5'	1.94	0.96
1:I:249:A:C2	1:I:250:A:N9	2.33	0.96
1:I:280:A:C2	1:I:281:A:C5	2.51	0.96
4:L:574:U:C4	4:L:575:U:O4	2.16	0.96
4:L:672:U:H2'	4:L:673:U:H6	1.30	0.96
5:M:454:U:C2'	5:M:455:U:O4'	2.14	0.96
5:M:530:U:H2'	5:M:531:U:C5'	1.94	0.96
6:N:324:U:H2'	6:N:325:U:H6	1.28	0.96
6:N:412:U:C2'	6:N:413:U:C5'	2.42	0.96
2:J:8:A:C2'	2:J:9:A:C5'	2.42	0.96
2:J:58:A:C2'	2:J:59:A:H5'	1.95	0.96
3:K:74:A:H3'	3:K:75:A:P	2.05	0.96
3:K:92:A:C2'	3:K:93:A:H5'	1.93	0.96
3:K:119:A:O2'	3:K:120:A:H5'	0.79	0.96
3:K:181:A:C2	3:K:182:A:C5	2.53	0.96
4:L:472:U:C2	4:L:473:U:C5	2.52	0.96
6:N:305:U:H2'	6:N:306:U:H6	1.26	0.96
1:I:186:A:O2'	1:I:187:A:H5'	1.65	0.96
1:I:250:A:C6	1:I:251:A:N6	2.33	0.96
2:J:265:A:C2	2:J:266:A:C5	2.53	0.96
3:K:256:A:O2'	3:K:257:A:C5'	2.13	0.96
4:L:436:U:O2'	4:L:437:U:H5'	1.65	0.96
5:M:338:U:O2'	5:M:339:U:C5'	2.13	0.96
5:M:486:U:HO2'	5:M:487:U:H5'	1.21	0.96
3:K:118:A:O2'	3:K:119:A:H5'	0.78	0.96
4:L:755:U:O2'	4:L:756:U:C5'	2.12	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:395:U:C2'	5:M:396:U:H5'	1.96	0.96
1:I:61:A:H2'	1:I:62:A:C8	1.99	0.96
1:I:82:A:C4	1:I:83:A:C8	2.52	0.96
1:I:86:A:C6	1:I:87:A:C5	2.53	0.96
1:I:279:A:C2'	1:I:280:A:C5'	2.40	0.96
4:L:574:U:H2'	4:L:575:U:H6	1.15	0.96
4:L:672:U:H2'	4:L:673:U:C6	2.00	0.96
4:L:755:U:C2'	4:L:756:U:C5'	2.42	0.96
5:M:480:U:O2'	5:M:481:U:P	2.23	0.96
5:M:485:U:O2'	5:M:486:U:C5'	2.13	0.96
6:N:454:U:C2'	6:N:455:U:C5'	2.43	0.96
1:I:62:A:C2	1:I:63:A:C4	2.53	0.96
1:I:259:A:O2'	1:I:260:A:H5'	1.64	0.96
5:M:387:U:H2'	5:M:388:U:C6	2.00	0.96
1:I:95:A:N6	1:I:96:A:N6	2.13	0.96
1:I:270:A:C2	1:I:271:A:C4	2.54	0.96
1:I:355:A:C3'	1:I:356:A:P	2.54	0.96
2:J:133:A:C2'	2:J:134:A:H5'	1.95	0.96
3:K:155:A:N6	3:K:156:A:N6	2.13	0.96
4:L:547:U:N3	4:L:548:U:C4	2.33	0.96
4:L:780:U:O2'	4:L:781:U:C5'	2.13	0.96
1:I:65:A:C2	1:I:66:A:N9	2.34	0.96
2:J:92:A:N1	2:J:93:A:C6	2.33	0.96
2:J:160:A:O2'	2:J:161:A:C4'	2.14	0.96
4:L:751:U:O2'	4:L:752:U:O4'	1.84	0.96
4:L:777:U:C2'	4:L:778:U:H5'	1.90	0.96
5:M:392:U:H2'	5:M:393:U:O4'	1.64	0.96
6:N:450:U:O2'	6:N:451:U:H5'	1.59	0.96
1:I:296:A:C2'	1:I:297:A:C5'	2.44	0.95
2:J:184:A:O2'	2:J:185:A:C5'	2.14	0.95
3:K:167:A:C6	3:K:168:A:C5	2.54	0.95
3:K:226:A:H2'	3:K:227:A:C8	2.01	0.95
4:L:717:U:C2	4:L:718:U:C5	2.54	0.95
4:L:759:U:O2'	4:L:760:U:H5'	0.79	0.95
5:M:510:U:O2'	5:M:511:U:C5'	2.13	0.95
6:N:420:U:O2'	6:N:421:U:H5'	0.78	0.95
1:I:95:A:N1	1:I:96:A:C6	2.33	0.95
1:I:103:A:O2'	1:I:104:A:P	2.23	0.95
4:L:750:U:H2'	4:L:751:U:C6	2.01	0.95
6:N:411:U:O2'	6:N:412:U:C5'	2.13	0.95
1:I:58:A:H2'	1:I:59:A:H8	1.25	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:119:A:O2'	1:I:120:A:H5'	0.78	0.95
1:I:266:A:C2	1:I:267:A:C4	2.54	0.95
2:J:153:A:C2'	2:J:154:A:H5'	1.95	0.95
4:L:681:U:H2'	4:L:682:U:H6	1.29	0.95
5:M:417:U:C4	5:M:418:U:O4	2.19	0.95
5:M:498:U:H2'	5:M:499:U:C6	2.01	0.95
6:N:423:U:O2'	6:N:424:U:C5'	2.14	0.95
6:N:517:U:O3'	6:N:518:U:P	2.23	0.95
1:I:87:A:C2'	1:I:88:A:C5'	2.42	0.95
1:I:267:A:C4	1:I:268:A:N7	2.34	0.95
3:K:46:A:O3'	3:K:47:A:H5'	1.66	0.95
3:K:60:A:O2'	3:K:61:A:H5'	1.66	0.95
4:L:599:U:H2'	4:L:600:U:H6	1.26	0.95
4:L:611:U:H2'	4:L:612:U:H6	1.31	0.95
5:M:327:U:C2	5:M:328:U:C5	2.53	0.95
5:M:376:U:H2'	5:M:377:U:O4'	1.62	0.95
5:M:496:U:O2'	5:M:497:U:C5'	2.14	0.95
1:I:85:A:C2	1:I:86:A:C4	2.53	0.95
1:I:101:A:H2'	1:I:102:A:C8	2.00	0.95
1:I:250:A:C4	1:I:251:A:N7	2.35	0.95
2:J:117:A:O2'	2:J:118:A:O5'	1.83	0.95
2:J:229:A:C2'	2:J:230:A:O4'	2.14	0.95
4:L:814:U:HO2'	4:L:815:U:H5'	1.27	0.95
5:M:354:U:C2	5:M:355:U:C5	2.54	0.95
5:M:451:U:C4	5:M:452:U:O4	2.19	0.95
6:N:327:U:C2'	6:N:328:U:O4'	2.12	0.95
1:I:250:A:C6	1:I:251:A:C6	2.53	0.95
2:J:64:A:H2'	2:J:65:A:C8	2.01	0.95
3:K:64:A:C2'	3:K:65:A:H5'	1.96	0.95
5:M:508:U:O2'	5:M:509:U:H5'	1.66	0.95
1:I:136:A:O2'	1:I:137:A:H5'	0.78	0.95
2:J:111:A:O2'	2:J:112:A:H5'	1.64	0.95
2:J:221:A:C2'	2:J:222:A:H5'	1.95	0.95
4:L:532:U:H2'	4:L:533:U:C5'	1.94	0.95
4:L:583:U:C2	4:L:584:U:C5	2.55	0.95
4:L:719:U:C2	4:L:720:U:C5	2.55	0.95
4:L:722:U:O2'	4:L:723:U:P	2.24	0.95
5:M:319:U:C3'	5:M:320:U:C5'	2.22	0.95
5:M:331:U:C2'	5:M:332:U:H5'	1.95	0.95
6:N:485:U:O2'	6:N:486:U:H5'	1.65	0.95
2:J:101:A:C6	2:J:102:A:N6	2.34	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:123:A:O2'	2:J:124:A:H5'	1.66	0.95
2:J:153:A:O2'	2:J:154:A:C5'	2.15	0.95
2:J:209:A:O2'	2:J:210:A:H5'	1.66	0.95
2:J:215:A:C2	2:J:216:A:C8	2.54	0.95
3:K:181:A:H2'	3:K:182:A:H8	1.30	0.95
4:L:510:U:O2'	4:L:511:U:C5'	2.14	0.95
4:L:758:U:C4	4:L:759:U:C5	2.55	0.95
5:M:346:U:C2'	5:M:347:U:H5'	1.95	0.95
5:M:349:U:C2'	5:M:350:U:C5'	2.44	0.95
6:N:386:U:H2'	6:N:387:U:C6	2.00	0.95
1:I:33:A:C2'	1:I:34:A:H5'	1.97	0.95
1:I:47:A:C2	1:I:48:A:C5	2.54	0.95
3:K:105:A:C2'	3:K:106:A:H8	1.79	0.95
3:K:164:A:C5	3:K:165:A:N7	2.34	0.95
4:L:690:U:O4	4:L:691:U:O4	1.83	0.95
4:L:711:U:C2	4:L:712:U:C5	2.55	0.95
4:L:722:U:C2	4:L:723:U:H5	1.80	0.95
4:L:797:U:O2'	4:L:798:U:H5'	1.65	0.95
5:M:333:U:H2'	5:M:334:U:C5'	1.94	0.95
6:N:318:U:H2'	6:N:319:U:C6	2.01	0.95
6:N:485:U:O2'	6:N:486:U:C4'	2.15	0.95
1:I:13:A:H2'	1:I:14:A:C8	2.01	0.95
1:I:79:A:C4	1:I:80:A:C8	2.55	0.95
2:J:130:A:C2'	2:J:131:A:C5'	2.44	0.95
3:K:45:A:O2'	3:K:46:A:H5'	1.66	0.95
1:I:88:A:HO2'	1:I:89:A:H5'	1.18	0.94
1:I:147:A:HO2'	1:I:148:A:H5'	1.23	0.94
1:I:225:A:H2'	1:I:226:A:H8	1.31	0.94
3:K:81:A:C2'	3:K:82:A:H5'	1.95	0.94
4:L:668:U:H2'	4:L:669:U:H6	1.18	0.94
4:L:754:U:C2'	4:L:755:U:C5'	2.42	0.94
1:I:65:A:HO2'	1:I:66:A:H5'	1.20	0.94
1:I:134:A:N1	1:I:135:A:C5	2.35	0.94
2:J:205:A:H2'	2:J:206:A:O4'	1.67	0.94
2:J:265:A:C2	2:J:266:A:C4	2.55	0.94
3:K:88:A:N3	3:K:89:A:C8	2.33	0.94
3:K:112:A:C6	3:K:113:A:N6	2.33	0.94
3:K:132:A:O2'	3:K:133:A:C5'	2.13	0.94
4:L:581:U:C2	4:L:582:U:C5	2.54	0.94
4:L:711:U:C2'	4:L:712:U:O4'	2.15	0.94
4:L:769:U:HO2'	4:L:770:U:H5'	1.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:337:U:C2	5:M:338:U:C6	2.55	0.94
5:M:370:U:C2	5:M:371:U:C5	2.55	0.94
5:M:405:U:O2'	5:M:406:U:C4'	2.15	0.94
5:M:435:U:O2'	5:M:436:U:P	2.24	0.94
6:N:416:U:O2	6:N:417:U:C1'	2.15	0.94
6:N:473:U:H2'	6:N:474:U:C6	2.02	0.94
1:I:66:A:C4	1:I:67:A:C8	2.55	0.94
1:I:82:A:C6	1:I:83:A:C5	2.55	0.94
1:I:127:A:C2'	1:I:128:A:H5'	1.97	0.94
2:J:56:A:HO2'	2:J:57:A:H5'	1.26	0.94
2:J:198:A:O2'	2:J:199:A:H5'	1.65	0.94
3:K:46:A:C2'	3:K:47:A:H5'	1.97	0.94
4:L:547:U:C2	4:L:548:U:C5	2.55	0.94
4:L:574:U:N3	4:L:575:U:C4	2.35	0.94
4:L:743:U:HO2'	4:L:744:U:H5'	1.12	0.94
4:L:811:U:H2'	4:L:812:U:H6	1.25	0.94
5:M:392:U:H2'	5:M:393:U:H6	1.30	0.94
5:M:433:U:C4	5:M:434:U:C4	2.54	0.94
1:I:96:A:C5	1:I:97:A:N7	2.34	0.94
1:I:96:A:C6	1:I:97:A:C5	2.55	0.94
1:I:278:A:C2'	1:I:279:A:O4'	2.14	0.94
1:I:325:A:N6	1:I:326:A:H62	1.63	0.94
2:J:92:A:N1	2:J:93:A:N6	2.15	0.94
3:K:181:A:N3	3:K:182:A:C8	2.34	0.94
4:L:593:U:C2	4:L:594:U:C5	2.55	0.94
5:M:323:U:O2'	5:M:324:U:H5'	1.22	0.94
6:N:317:U:H2'	6:N:318:U:H6	1.28	0.94
6:N:406:U:O2'	6:N:407:U:H5'	1.66	0.94
1:I:102:A:C6	1:I:103:A:C6	2.55	0.94
1:I:178:A:O2'	1:I:179:A:C5'	2.15	0.94
2:J:92:A:C6	2:J:93:A:N6	2.35	0.94
2:J:225:A:O2'	2:J:226:A:H5'	1.68	0.94
3:K:167:A:C4	3:K:168:A:C8	2.55	0.94
4:L:549:U:C2'	4:L:550:U:H5'	1.82	0.94
5:M:537:U:O2'	5:M:538:U:H5'	1.67	0.94
1:I:243:A:C5	1:I:244:A:N7	2.35	0.94
1:I:303:A:O2'	1:I:304:A:H5'	1.66	0.94
2:J:225:A:N3	2:J:226:A:C8	2.35	0.94
3:K:64:A:HO2'	3:K:65:A:H5'	1.20	0.94
4:L:587:U:C2'	4:L:588:U:H5'	1.97	0.94
4:L:766:U:C4	4:L:767:U:O4	2.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:347:U:H2'	5:M:348:U:C5'	1.97	0.94
5:M:371:U:C2'	5:M:372:U:C5'	2.44	0.94
6:N:375:U:H2'	6:N:376:U:C6	2.02	0.94
6:N:399:U:C2	6:N:400:U:C5	2.56	0.94
1:I:91:A:H2'	1:I:92:A:C5'	1.96	0.94
1:I:245:A:N3	1:I:246:A:C8	2.35	0.94
1:I:323:A:O2'	1:I:324:A:H5'	0.77	0.94
2:J:127:A:C2'	2:J:128:A:C5'	2.43	0.94
2:J:210:A:H2'	2:J:211:A:O4'	1.67	0.94
4:L:424:U:C4	4:L:425:U:O4	2.21	0.94
4:L:634:U:HO2'	4:L:635:U:H5'	1.19	0.94
4:L:767:U:H2'	4:L:768:U:H6	1.22	0.94
5:M:454:U:C2	5:M:455:U:C6	2.55	0.94
5:M:457:U:C2'	5:M:458:U:C5'	2.45	0.94
5:M:530:U:H2'	5:M:531:U:O4'	1.68	0.94
6:N:362:U:HO2'	6:N:363:U:H5'	1.23	0.94
1:I:54:A:C2	1:I:55:A:C5	2.55	0.94
1:I:78:A:N1	1:I:79:A:C5	2.35	0.94
1:I:335:A:N6	1:I:336:A:H62	1.65	0.94
2:J:204:A:N6	2:J:205:A:H62	1.62	0.94
2:J:229:A:H2'	2:J:230:A:O4'	1.67	0.94
2:J:230:A:C2'	2:J:231:A:C5'	2.46	0.94
3:K:105:A:C2'	3:K:106:A:C8	2.51	0.94
3:K:115:A:H2'	3:K:116:A:C8	2.03	0.94
4:L:487:U:HO2'	4:L:488:U:H5'	1.17	0.94
4:L:579:U:O2'	4:L:580:U:H5'	1.67	0.94
4:L:595:U:O2'	4:L:596:U:C5'	2.16	0.94
4:L:637:U:H2'	4:L:638:U:C6	2.03	0.94
5:M:469:U:H2'	5:M:470:U:C6	2.03	0.94
6:N:332:U:H2'	6:N:333:U:C6	2.02	0.94
6:N:488:U:O2'	6:N:489:U:H5'	1.68	0.94
1:I:100:A:O2'	1:I:101:A:H5'	1.68	0.94
1:I:143:A:H2'	1:I:144:A:H8	1.32	0.94
2:J:100:A:HO2'	2:J:101:A:H5'	1.16	0.94
3:K:252:A:C3'	3:K:253:A:P	2.54	0.94
5:M:417:U:C2	5:M:418:U:C5	2.56	0.94
5:M:451:U:C2	5:M:452:U:C5	2.55	0.94
5:M:453:U:O2'	5:M:454:U:O4'	1.86	0.94
5:M:510:U:O2'	5:M:511:U:O4'	1.85	0.94
5:M:511:U:O2'	5:M:512:U:H5'	1.66	0.94
6:N:497:U:H2'	6:N:498:U:C5'	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:A:C2'	1:I:286:A:H5'	1.98	0.94
1:I:295:A:O2'	1:I:296:A:C5'	2.16	0.94
1:I:335:A:C6	1:I:336:A:N6	2.36	0.94
4:L:466:U:HO2'	4:L:467:U:H5'	1.30	0.94
4:L:638:U:C2	4:L:639:U:C6	2.55	0.94
4:L:720:U:C4	4:L:721:U:O4	2.21	0.94
5:M:409:U:C2	5:M:410:U:C6	2.55	0.94
6:N:426:U:O2'	6:N:427:U:C4'	2.16	0.94
6:N:427:U:HO2'	6:N:428:U:H5'	1.30	0.94
1:I:260:A:C2'	1:I:261:A:H5'	1.94	0.93
1:I:261:A:H2'	1:I:262:A:C8	2.02	0.93
2:J:29:A:HO2'	2:J:30:A:H5'	1.14	0.93
2:J:88:A:C2	2:J:89:A:C8	2.56	0.93
2:J:142:A:C6	2:J:143:A:N6	2.36	0.93
4:L:557:U:O2'	4:L:558:U:C5'	2.12	0.93
4:L:698:U:HO2'	4:L:699:U:H5'	1.16	0.93
1:I:68:A:H2'	1:I:69:A:C5'	1.99	0.93
1:I:123:A:O2'	1:I:124:A:H5'	1.68	0.93
1:I:232:A:H2'	1:I:233:A:O4'	1.68	0.93
1:I:238:A:C6	1:I:239:A:N6	2.36	0.93
1:I:287:A:O2'	1:I:288:A:C4'	2.16	0.93
2:J:142:A:H2'	2:J:143:A:H8	1.33	0.93
3:K:45:A:O3'	3:K:46:A:C5'	2.16	0.93
3:K:124:A:N3	3:K:125:A:C8	2.36	0.93
3:K:154:A:C2'	3:K:155:A:O4'	2.16	0.93
3:K:168:A:HO2'	3:K:169:A:H5'	1.33	0.93
4:L:637:U:C2	4:L:638:U:C5	2.56	0.93
4:L:729:U:C4	4:L:730:U:O4	2.21	0.93
5:M:324:U:H2'	5:M:325:U:C6	2.03	0.93
5:M:350:U:O2'	5:M:351:U:H5'	0.76	0.93
6:N:474:U:C2'	6:N:475:U:H5'	1.99	0.93
6:N:481:U:C2'	6:N:482:U:C5'	2.44	0.93
6:N:484:U:O2'	6:N:485:U:C5'	2.15	0.93
1:I:85:A:C2	1:I:86:A:N9	2.36	0.93
2:J:98:A:H2'	2:J:99:A:H8	1.32	0.93
2:J:223:A:O2'	2:J:224:A:H5'	1.67	0.93
3:K:104:A:C2	3:K:105:A:C4	2.55	0.93
4:L:807:U:O2'	4:L:808:U:H5'	0.76	0.93
4:L:810:U:C2'	4:L:811:U:C5'	2.46	0.93
6:N:459:U:H2'	6:N:460:U:H6	1.30	0.93
6:N:483:U:N3	6:N:484:U:C4	2.37	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:138:A:H2'	1:I:139:A:C5'	1.99	0.93
1:I:263:A:O2'	1:I:264:A:H5'	1.66	0.93
1:I:376:A:C2	1:I:377:A:C5	2.57	0.93
3:K:207:A:O2'	3:K:208:A:H5'	1.68	0.93
4:L:689:U:O2'	4:L:690:U:H5'	1.67	0.93
4:L:806:U:O2'	4:L:807:U:H5'	1.69	0.93
5:M:386:U:O2	5:M:387:U:C6	2.20	0.93
5:M:468:U:O2'	5:M:469:U:P	2.26	0.93
6:N:430:U:C2'	6:N:431:U:H5'	1.92	0.93
1:I:63:A:N6	1:I:64:A:H62	1.67	0.93
1:I:243:A:N6	1:I:244:A:H62	1.57	0.93
2:J:120:A:O2'	2:J:121:A:C5'	2.16	0.93
2:J:204:A:C4	2:J:205:A:C8	2.57	0.93
4:L:815:U:C2'	4:L:816:U:C5'	2.45	0.93
1:I:54:A:C2	1:I:55:A:N7	2.36	0.93
1:I:85:A:N3	1:I:86:A:C8	2.37	0.93
1:I:128:A:C5	1:I:129:A:N7	2.37	0.93
1:I:132:A:H2'	1:I:133:A:O4'	1.68	0.93
1:I:229:A:O2'	1:I:230:A:C5'	2.16	0.93
3:K:256:A:HO2'	3:K:257:A:H5'	1.30	0.93
4:L:596:U:H2'	4:L:597:U:H6	1.34	0.93
4:L:702:U:O2'	4:L:703:U:C5'	2.17	0.93
4:L:729:U:N3	4:L:730:U:C4	2.37	0.93
4:L:810:U:C2'	4:L:811:U:O4'	2.17	0.93
6:N:333:U:H2'	6:N:334:U:O4'	1.69	0.93
1:I:12:A:C2'	1:I:13:A:H5'	1.97	0.93
1:I:55:A:HO2'	1:I:56:A:H5'	1.27	0.93
1:I:82:A:C2'	1:I:83:A:O4'	2.15	0.93
1:I:132:A:HO2'	1:I:133:A:H5'	1.13	0.93
2:J:88:A:C2'	2:J:89:A:H5'	1.98	0.93
4:L:722:U:O2	4:L:723:U:C6	2.22	0.93
6:N:424:U:C2'	6:N:425:U:H6	1.81	0.93
1:I:46:A:N3	1:I:47:A:C8	2.36	0.93
1:I:156:A:H2'	1:I:157:A:H8	1.30	0.93
1:I:194:A:N6	1:I:195:A:H62	1.65	0.93
1:I:231:A:C5	1:I:232:A:N7	2.37	0.93
2:J:131:A:N6	2:J:132:A:N6	2.16	0.93
2:J:182:A:N6	2:J:183:A:H62	1.67	0.93
3:K:142:A:H2'	3:K:143:A:C8	2.03	0.93
4:L:704:U:C2'	4:L:705:U:H5'	1.99	0.93
5:M:538:U:N3	5:M:539:U:C5	2.37	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:429:U:C2	6:N:430:U:C5	2.57	0.93
1:I:67:A:C4	1:I:68:A:C8	2.57	0.93
1:I:164:A:H2'	1:I:165:A:H8	1.31	0.93
1:I:232:A:H2'	1:I:233:A:C5'	1.97	0.93
1:I:240:A:C2	1:I:241:A:C8	2.57	0.93
2:J:173:A:H2'	2:J:174:A:H8	1.18	0.93
2:J:214:A:C2'	2:J:215:A:H5'	1.99	0.93
3:K:152:A:N6	3:K:153:A:H62	1.42	0.93
4:L:563:U:C2	4:L:564:U:C5	2.57	0.93
4:L:604:U:C2'	4:L:605:U:H5'	1.98	0.93
4:L:673:U:HO2'	4:L:674:U:H5'	1.25	0.93
4:L:765:U:O2'	4:L:766:U:C5'	2.14	0.93
5:M:346:U:C2'	5:M:347:U:C5'	2.47	0.93
5:M:466:U:H2'	5:M:467:U:O4'	1.69	0.93
6:N:379:U:O2'	6:N:380:U:C5'	2.17	0.93
2:J:210:A:C2'	2:J:211:A:C5'	2.46	0.93
3:K:160:A:O2'	3:K:161:A:H5'	1.69	0.93
4:L:459:U:C2'	4:L:460:U:C5'	2.46	0.93
4:L:460:U:O2'	4:L:461:U:C5'	2.15	0.93
4:L:498:U:O2'	4:L:499:U:C5'	2.17	0.93
5:M:452:U:HO2'	5:M:453:U:H5'	1.15	0.93
6:N:328:U:H2'	6:N:329:U:H6	1.30	0.93
2:J:72:A:C2'	2:J:73:A:H5'	1.99	0.92
2:J:83:A:C4	2:J:84:A:C8	2.56	0.92
3:K:46:A:O2'	3:K:47:A:C5'	2.16	0.92
3:K:253:A:HO2'	3:K:254:A:H5'	1.32	0.92
4:L:677:U:HO2'	4:L:678:U:H5'	1.31	0.92
4:L:690:U:C4	4:L:691:U:C4	2.57	0.92
5:M:405:U:C2'	5:M:406:U:O4'	2.15	0.92
6:N:349:U:H2'	6:N:350:U:C6	2.03	0.92
6:N:374:U:O2'	6:N:375:U:C5'	2.16	0.92
6:N:423:U:HO2'	6:N:424:U:H5'	1.25	0.92
6:N:425:U:N3	6:N:426:U:C4	2.36	0.92
6:N:497:U:C3'	6:N:498:U:H5'	1.76	0.92
1:I:226:A:O2'	1:I:227:A:H5'	1.69	0.92
1:I:271:A:C2	1:I:272:A:N7	2.36	0.92
2:J:23:A:O2'	2:J:24:A:H5'	1.69	0.92
2:J:47:A:H2'	2:J:48:A:O5'	1.68	0.92
3:K:133:A:O2'	3:K:134:A:H5'	1.68	0.92
4:L:566:U:C2'	4:L:567:U:H5'	1.98	0.92
4:L:751:U:O2'	4:L:752:U:C4'	2.16	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:779:U:H2'	4:L:780:U:C5'	1.97	0.92
5:M:408:U:O2'	5:M:409:U:H5'	0.74	0.92
5:M:468:U:C2	5:M:469:U:C5	2.58	0.92
6:N:455:U:C3'	6:N:456:U:P	2.57	0.92
1:I:26:A:C2'	1:I:27:A:H5'	1.98	0.92
1:I:116:A:O2'	1:I:117:A:C5'	2.18	0.92
2:J:28:A:C5	2:J:29:A:N7	2.36	0.92
2:J:249:A:O2'	2:J:250:A:C5'	2.17	0.92
3:K:155:A:C6	3:K:156:A:C5	2.58	0.92
3:K:212:A:H2'	3:K:213:A:C8	2.04	0.92
4:L:488:U:C2'	4:L:489:U:C5'	2.47	0.92
5:M:420:U:O2'	5:M:421:U:C5'	2.16	0.92
5:M:437:U:C2'	5:M:438:U:H5'	1.99	0.92
1:I:21:A:H2'	1:I:22:A:H8	1.33	0.92
1:I:262:A:HO2'	1:I:263:A:H5'	1.34	0.92
2:J:13:A:N3	2:J:14:A:C8	2.38	0.92
2:J:217:A:N6	2:J:218:A:N6	2.18	0.92
4:L:500:U:H2'	4:L:501:U:C5'	1.99	0.92
4:L:647:U:O2'	4:L:648:U:C5'	2.15	0.92
4:L:770:U:N3	4:L:771:U:C5	2.36	0.92
4:L:775:U:C2'	4:L:776:U:C5'	2.45	0.92
5:M:380:U:H2'	5:M:381:U:C6	2.04	0.92
5:M:392:U:C2'	5:M:393:U:O4'	2.16	0.92
5:M:483:U:HO2'	5:M:484:U:H5'	1.28	0.92
6:N:338:U:C4	6:N:339:U:O4	2.22	0.92
2:J:144:A:C2	2:J:145:A:C4	2.58	0.92
2:J:214:A:HO2'	2:J:215:A:H5'	1.12	0.92
4:L:547:U:C4	4:L:548:U:C4	2.57	0.92
4:L:711:U:H2'	4:L:712:U:H6	1.23	0.92
4:L:757:U:N3	4:L:758:U:C5	2.36	0.92
4:L:764:U:C4	4:L:765:U:C4	2.57	0.92
5:M:392:U:O2'	5:M:393:U:C4'	2.18	0.92
1:I:257:A:C2'	1:I:258:A:C5'	2.47	0.92
1:I:269:A:H2'	1:I:270:A:O4'	1.69	0.92
1:I:317:A:HO2'	1:I:318:A:H5'	1.32	0.92
2:J:83:A:N1	2:J:84:A:C5	2.36	0.92
2:J:223:A:C6	2:J:224:A:N7	2.37	0.92
2:J:254:A:C2'	2:J:255:A:H5'	1.97	0.92
3:K:106:A:H2'	3:K:107:A:H8	1.28	0.92
3:K:146:A:O2'	3:K:147:A:P	2.27	0.92
4:L:557:U:H2'	4:L:558:U:C5'	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:722:U:N3	4:L:723:U:C4	2.35	0.92
4:L:781:U:C2	4:L:782:U:C5	2.58	0.92
5:M:488:U:H2'	5:M:489:U:C6	2.03	0.92
1:I:25:A:HO2'	1:I:26:A:H5'	1.33	0.92
1:I:74:A:C6	1:I:75:A:C5	2.58	0.92
1:I:163:A:HO2'	1:I:164:A:H5'	1.13	0.92
1:I:245:A:C2	1:I:246:A:C5	2.57	0.92
4:L:420:U:H2'	4:L:421:U:C6	2.05	0.92
4:L:491:U:O2	4:L:492:U:C6	2.22	0.92
4:L:758:U:H2'	4:L:759:U:O4'	1.68	0.92
5:M:306:U:O2'	5:M:307:U:H5'	1.70	0.92
1:I:95:A:N3	1:I:96:A:C8	2.36	0.92
1:I:229:A:C2'	1:I:230:A:H5'	1.99	0.92
1:I:358:A:C2	1:I:359:A:C8	2.57	0.92
2:J:51:A:H2'	2:J:52:A:H8	1.33	0.92
2:J:61:A:N3	2:J:62:A:C8	2.38	0.92
2:J:84:A:C2'	2:J:85:A:C5'	2.47	0.92
2:J:202:A:C2'	2:J:203:A:H5'	2.00	0.92
2:J:211:A:O2'	2:J:212:A:C5'	2.17	0.92
3:K:49:A:N3	3:K:50:A:C8	2.37	0.92
3:K:204:A:N6	3:K:205:A:N6	2.18	0.92
5:M:379:U:H2'	5:M:380:U:H6	1.15	0.92
5:M:391:U:O2'	5:M:392:U:C5'	2.18	0.92
6:N:318:U:C4	6:N:319:U:O4	2.21	0.92
6:N:405:U:O2'	6:N:406:U:C5'	2.17	0.92
1:I:67:A:C6	1:I:68:A:C6	2.58	0.92
1:I:85:A:C2	1:I:86:A:C8	2.57	0.92
1:I:188:A:O2'	1:I:189:A:H5'	1.70	0.92
1:I:388:A:H2'	1:I:389:A:C8	2.05	0.92
3:K:156:A:C3'	3:K:157:A:H5'	1.81	0.92
4:L:649:U:C2	4:L:650:U:C6	2.57	0.92
4:L:764:U:C4	4:L:765:U:C5	2.57	0.92
5:M:382:U:HO2'	5:M:383:U:H5'	1.28	0.92
5:M:416:U:O2	5:M:417:U:N1	2.03	0.92
5:M:453:U:H2'	5:M:454:U:H6	1.25	0.92
5:M:454:U:C4	5:M:455:U:C5	2.57	0.92
5:M:537:U:C2'	5:M:538:U:H5'	1.99	0.92
6:N:327:U:C2'	6:N:328:U:H5'	2.00	0.92
1:I:265:A:N6	1:I:266:A:N6	2.18	0.92
1:I:337:A:HO2'	1:I:338:A:H5'	1.12	0.92
1:I:340:A:C2	1:I:341:A:C5	2.57	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:42:A:H2'	2:J:43:A:C8	2.04	0.92
3:K:102:A:C2	3:K:103:A:C8	2.59	0.92
3:K:125:A:C2'	3:K:126:A:H5'	1.99	0.92
4:L:474:U:O2'	4:L:475:U:H5'	1.70	0.92
4:L:497:U:O2'	4:L:498:U:C5'	2.06	0.92
4:L:529:U:C2'	4:L:530:U:H5'	1.99	0.92
4:L:661:U:HO2'	4:L:662:U:H5'	1.12	0.92
4:L:674:U:H2'	4:L:675:U:C5'	1.96	0.92
5:M:296:U:C2'	5:M:297:U:C5'	2.47	0.92
5:M:328:U:C2	5:M:329:U:C5	2.58	0.92
1:I:8:A:N6	1:I:9:A:N6	2.18	0.91
1:I:236:A:C2	1:I:237:A:C8	2.58	0.91
1:I:376:A:C6	1:I:377:A:C6	2.57	0.91
2:J:122:A:N6	2:J:123:A:H62	1.64	0.91
2:J:130:A:O2'	2:J:131:A:C5'	2.18	0.91
2:J:142:A:H2'	2:J:143:A:C8	2.04	0.91
2:J:144:A:C2	2:J:145:A:N9	2.38	0.91
2:J:159:A:H2'	2:J:160:A:C8	2.05	0.91
2:J:206:A:H2'	2:J:207:A:C5'	1.99	0.91
4:L:769:U:C2'	4:L:770:U:C5'	2.45	0.91
4:L:813:U:C2	4:L:814:U:C5	2.57	0.91
5:M:412:U:O2'	5:M:413:U:H5'	1.70	0.91
5:M:495:U:O2'	5:M:496:U:H5'	1.70	0.91
1:I:113:A:H2'	1:I:114:A:H8	1.34	0.91
1:I:128:A:N6	1:I:129:A:N6	2.18	0.91
1:I:129:A:C2	1:I:130:A:C8	2.58	0.91
1:I:134:A:N1	1:I:135:A:N6	2.19	0.91
1:I:292:A:O2'	1:I:293:A:H5'	1.71	0.91
1:I:372:A:C2'	1:I:373:A:H5'	2.00	0.91
1:I:374:A:O2'	1:I:375:A:H5'	1.70	0.91
2:J:88:A:C2	2:J:89:A:N9	2.38	0.91
2:J:132:A:C2'	2:J:133:A:C5'	2.47	0.91
2:J:184:A:C2	2:J:185:A:C8	2.59	0.91
4:L:498:U:HO2'	4:L:499:U:H5'	1.19	0.91
6:N:331:U:H2'	6:N:332:U:C6	2.04	0.91
6:N:376:U:C2	6:N:377:U:C5	2.57	0.91
6:N:430:U:C2'	6:N:431:U:C5'	2.45	0.91
6:N:484:U:O2'	6:N:485:U:C4'	2.17	0.91
6:N:526:U:O2'	6:N:527:U:H5'	1.70	0.91
1:I:67:A:C4	1:I:68:A:N7	2.39	0.91
1:I:180:A:N3	1:I:181:A:C8	2.38	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:270:A:C2'	1:I:271:A:O4'	2.17	0.91
1:I:337:A:C2'	1:I:338:A:C5'	2.45	0.91
2:J:83:A:H2'	2:J:84:A:C8	2.03	0.91
3:K:113:A:O2'	3:K:114:A:H5'	1.69	0.91
4:L:763:U:O2'	4:L:764:U:H5'	1.70	0.91
5:M:420:U:C2'	5:M:421:U:C5'	2.47	0.91
6:N:492:U:O2'	6:N:493:U:C5'	2.17	0.91
1:I:207:A:C2'	1:I:208:A:H5'	2.00	0.91
1:I:299:A:HO2'	1:I:300:A:H5'	1.33	0.91
1:I:348:A:C2'	1:I:349:A:H5'	2.00	0.91
3:K:166:A:HO2'	3:K:167:A:H5'	1.11	0.91
4:L:694:U:C2	4:L:695:U:C6	2.58	0.91
4:L:705:U:O2'	4:L:706:U:H5'	0.74	0.91
1:I:343:A:O2'	1:I:344:A:H5'	1.69	0.91
4:L:553:U:O2	4:L:554:U:C1'	2.18	0.91
4:L:586:U:H2'	4:L:587:U:C6	2.05	0.91
4:L:642:U:C2'	4:L:643:U:H5'	1.99	0.91
4:L:691:U:HO2'	4:L:692:U:H5'	1.29	0.91
4:L:738:U:C2	4:L:739:U:C5	2.58	0.91
4:L:777:U:C2'	4:L:778:U:C5'	2.49	0.91
5:M:318:U:HO2'	5:M:319:U:H5'	1.30	0.91
5:M:410:U:C4	5:M:411:U:C4	2.59	0.91
5:M:460:U:C2	5:M:461:U:C6	2.57	0.91
1:I:43:A:C2	1:I:44:A:C8	2.58	0.91
1:I:68:A:C4	1:I:69:A:C8	2.58	0.91
1:I:163:A:C2	1:I:164:A:C4	2.59	0.91
1:I:342:A:C2'	1:I:343:A:C5'	2.48	0.91
2:J:89:A:N3	2:J:90:A:N7	2.17	0.91
2:J:136:A:H2	2:J:137:A:C4	1.65	0.91
2:J:231:A:N6	2:J:232:A:H62	1.65	0.91
4:L:515:U:H2'	4:L:516:U:H6	1.35	0.91
4:L:586:U:C2	4:L:587:U:C5	2.58	0.91
4:L:766:U:H2'	4:L:767:U:H6	1.28	0.91
5:M:453:U:C2	5:M:454:U:C6	2.59	0.91
6:N:364:U:O2'	6:N:365:U:C5'	2.19	0.91
6:N:424:U:C2	6:N:425:U:C5	2.59	0.91
6:N:483:U:N3	6:N:484:U:O4	2.03	0.91
1:I:16:A:N6	1:I:17:A:N6	2.17	0.91
1:I:107:A:C4	1:I:108:A:N7	2.39	0.91
1:I:327:A:O2'	1:I:328:A:H5'	1.70	0.91
2:J:166:A:N3	2:J:167:A:C8	2.39	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:183:A:C2	2:J:184:A:N9	2.38	0.91
4:L:499:U:C4	4:L:500:U:O4	2.23	0.91
4:L:566:U:HO2'	4:L:567:U:H5'	1.25	0.91
4:L:723:U:C2	4:L:724:U:C6	2.59	0.91
5:M:523:U:C2	5:M:524:U:C5	2.59	0.91
6:N:406:U:C2	6:N:407:U:C6	2.59	0.91
6:N:420:U:C2'	6:N:421:U:H5'	2.00	0.91
6:N:483:U:C4	6:N:484:U:C4	2.59	0.91
1:I:107:A:C5	1:I:108:A:N7	2.39	0.91
1:I:257:A:HO2'	1:I:258:A:H5'	1.28	0.91
2:J:147:A:O2'	2:J:148:A:O5'	1.88	0.91
3:K:90:A:C2'	3:K:91:A:H5'	2.00	0.91
4:L:510:U:C2'	4:L:511:U:C5'	2.48	0.91
6:N:392:U:C2	6:N:393:U:C5	2.58	0.91
1:I:278:A:O2'	1:I:279:A:H5'	1.71	0.91
1:I:341:A:C2'	1:I:342:A:C5'	2.49	0.91
2:J:69:A:H2'	2:J:70:A:O4'	1.71	0.91
2:J:130:A:HO2'	2:J:131:A:H5'	1.35	0.91
2:J:234:A:HO2'	2:J:235:A:H5'	1.26	0.91
4:L:571:U:H2'	4:L:572:U:C6	2.06	0.91
4:L:684:U:C2	4:L:685:U:C5	2.59	0.91
4:L:711:U:C2	4:L:712:U:C6	2.59	0.91
4:L:734:U:H2'	4:L:735:U:H6	1.36	0.91
4:L:740:U:C2'	4:L:741:U:C5'	2.47	0.91
5:M:335:U:C5	5:M:336:U:H5	1.88	0.91
5:M:522:U:C2'	5:M:523:U:H5'	2.00	0.91
6:N:319:U:H2'	6:N:320:U:C6	2.06	0.91
6:N:496:U:O2'	6:N:497:U:H5'	1.68	0.91
1:I:46:A:C2	1:I:47:A:N7	2.39	0.91
1:I:53:A:O2'	1:I:54:A:H5'	1.68	0.91
1:I:112:A:O2'	1:I:113:A:H5'	1.71	0.91
1:I:119:A:C2	1:I:120:A:C4	2.59	0.91
1:I:186:A:O2'	1:I:187:A:C5'	2.19	0.91
1:I:316:A:N6	1:I:317:A:H62	1.69	0.91
2:J:13:A:O2'	2:J:14:A:C5'	2.18	0.91
2:J:165:A:H2'	2:J:166:A:H8	1.32	0.91
4:L:597:U:O2'	4:L:598:U:C5'	2.19	0.91
4:L:652:U:HO2'	4:L:653:U:H5'	1.36	0.91
5:M:324:U:H2'	5:M:325:U:H6	1.35	0.91
1:I:274:A:C2	1:I:275:A:C8	2.60	0.90
2:J:83:A:N1	2:J:84:A:C6	2.38	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:117:A:N3	2:J:118:A:N9	2.19	0.90
3:K:151:A:O2'	3:K:152:A:H5'	1.71	0.90
3:K:252:A:N6	6:N:280:U:O4	2.03	0.90
4:L:549:U:O2'	4:L:550:U:C5'	2.18	0.90
4:L:587:U:C2'	4:L:588:U:C5'	2.48	0.90
4:L:596:U:H2'	4:L:597:U:C6	2.05	0.90
5:M:485:U:H2'	5:M:486:U:C5'	2.00	0.90
5:M:525:U:O2'	5:M:526:U:C5'	2.17	0.90
1:I:14:A:C4	1:I:15:A:C8	2.59	0.90
1:I:106:A:C2	1:I:107:A:C8	2.59	0.90
1:I:109:A:HO2'	1:I:110:A:C5'	1.82	0.90
1:I:225:A:H2'	1:I:226:A:C8	2.06	0.90
1:I:347:A:HO2'	1:I:348:A:H5'	1.30	0.90
2:J:100:A:C2'	2:J:101:A:H5'	2.01	0.90
2:J:219:A:C2'	2:J:220:A:C5'	2.49	0.90
3:K:81:A:C2'	3:K:82:A:C5'	2.49	0.90
3:K:130:A:O2'	3:K:131:A:C5'	2.19	0.90
4:L:655:U:O2'	4:L:656:U:H5'	1.71	0.90
5:M:319:U:HO2'	5:M:320:U:H5'	1.34	0.90
5:M:416:U:O2	5:M:417:U:C6	2.25	0.90
5:M:416:U:O2	5:M:417:U:C1'	2.18	0.90
1:I:41:A:N3	1:I:42:A:C8	2.39	0.90
1:I:129:A:HO2'	1:I:130:A:H5'	1.24	0.90
1:I:227:A:O2'	1:I:228:A:C5'	2.20	0.90
2:J:99:A:H2'	2:J:100:A:H8	1.27	0.90
4:L:717:U:N3	4:L:718:U:C4	2.39	0.90
5:M:335:U:C5	5:M:336:U:C5	2.60	0.90
5:M:386:U:O2'	5:M:387:U:P	2.29	0.90
5:M:449:U:HO2'	5:M:450:U:H5'	1.13	0.90
5:M:531:U:O2'	5:M:532:U:C5'	2.15	0.90
3:K:147:A:C2	3:K:148:A:C5	2.58	0.90
4:L:425:U:O2'	4:L:426:U:H5'	1.70	0.90
4:L:587:U:H2'	4:L:588:U:H6	1.36	0.90
4:L:766:U:C2	4:L:767:U:C5	2.60	0.90
1:I:69:A:C2'	1:I:70:A:C5'	2.48	0.90
1:I:81:A:HO2'	1:I:82:A:H5'	1.15	0.90
1:I:232:A:C4	1:I:233:A:C8	2.60	0.90
1:I:240:A:C2	1:I:241:A:C4	2.59	0.90
1:I:275:A:H2'	1:I:276:A:H8	1.33	0.90
1:I:322:A:C5	1:I:323:A:N7	2.39	0.90
2:J:205:A:O2'	2:J:206:A:C4'	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:96:A:C2'	3:K:97:A:C5'	2.49	0.90
3:K:107:A:C2'	3:K:108:A:H5'	2.01	0.90
3:K:120:A:H2'	3:K:121:A:C5'	2.01	0.90
3:K:192:A:C6	3:K:193:A:N6	2.40	0.90
4:L:421:U:H2'	4:L:422:U:O4'	1.72	0.90
4:L:436:U:O2'	4:L:437:U:O4'	1.89	0.90
5:M:387:U:O2	5:M:388:U:C6	2.24	0.90
1:I:129:A:C2	1:I:130:A:N9	2.40	0.90
1:I:161:A:O2'	1:I:162:A:H5'	1.69	0.90
1:I:238:A:H2'	1:I:239:A:C8	2.07	0.90
1:I:252:A:HO2'	1:I:253:A:H5'	1.25	0.90
1:I:269:A:H2'	1:I:270:A:C5'	2.02	0.90
2:J:116:A:C2	2:J:117:A:C5	2.60	0.90
2:J:171:A:C4	2:J:172:A:N7	2.40	0.90
3:K:251:A:N6	3:K:252:A:H62	1.69	0.90
4:L:757:U:C4	4:L:758:U:O4	2.24	0.90
4:L:766:U:H2'	4:L:767:U:O4'	1.70	0.90
4:L:820:U:H2'	4:L:821:U:H6	1.31	0.90
5:M:466:U:H2'	5:M:467:U:C5'	1.98	0.90
5:M:480:U:O2	5:M:481:U:C5	2.24	0.90
6:N:339:U:H2'	6:N:340:U:H6	1.36	0.90
1:I:41:A:C2	1:I:42:A:C4	2.59	0.90
1:I:322:A:N6	1:I:323:A:N6	2.20	0.90
2:J:37:A:C2'	2:J:38:A:H5'	2.01	0.90
2:J:236:A:N3	2:J:237:A:N7	2.19	0.90
4:L:517:U:H2'	4:L:518:U:O4'	1.71	0.90
4:L:518:U:O2'	4:L:519:U:H5'	0.72	0.90
5:M:455:U:C2	5:M:456:U:C6	2.59	0.90
5:M:504:U:O2'	5:M:505:U:H5'	1.70	0.90
5:M:511:U:C2'	5:M:512:U:C5'	2.50	0.90
1:I:67:A:H2'	1:I:68:A:O4'	1.72	0.90
1:I:240:A:O2'	1:I:241:A:C5'	2.20	0.90
1:I:307:A:O2'	1:I:308:A:H5'	1.71	0.90
3:K:201:A:H2'	3:K:202:A:C8	2.05	0.90
4:L:742:U:O2'	4:L:743:U:P	2.30	0.90
4:L:754:U:O2'	4:L:755:U:C5'	2.20	0.90
4:L:754:U:H2'	4:L:755:U:H6	1.34	0.90
5:M:347:U:C2	5:M:348:U:C6	2.59	0.90
5:M:526:U:HO2'	5:M:527:U:H5'	1.12	0.90
6:N:316:U:H2'	6:N:317:U:H6	1.28	0.90
1:I:245:A:O2'	1:I:246:A:P	2.29	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:261:A:C4	1:I:262:A:C8	2.60	0.90
1:I:282:A:C2	1:I:283:A:C5	2.60	0.90
4:L:421:U:O2'	4:L:422:U:C5'	2.19	0.90
4:L:546:U:O2'	4:L:547:U:H5'	1.71	0.90
4:L:576:U:HO2'	4:L:577:U:H5'	1.10	0.90
6:N:320:U:C2'	6:N:321:U:H5'	2.02	0.90
6:N:454:U:O2'	6:N:455:U:C5'	2.20	0.90
1:I:4:A:C2	1:I:5:A:C5	2.59	0.90
1:I:46:A:O2'	1:I:47:A:P	2.30	0.90
1:I:109:A:HO2'	1:I:110:A:H5'	1.36	0.90
2:J:103:A:HO2'	2:J:104:A:H5'	1.23	0.90
2:J:262:A:O2'	2:J:263:A:H5'	1.72	0.90
3:K:44:A:H2'	3:K:45:A:C8	2.07	0.90
3:K:192:A:N6	3:K:193:A:N6	2.19	0.90
4:L:548:U:H2'	4:L:549:U:H6	1.36	0.90
4:L:749:U:HO2'	4:L:750:U:H5'	1.34	0.90
5:M:408:U:H2'	5:M:409:U:C5'	2.01	0.90
6:N:379:U:H2'	6:N:380:U:O4'	1.72	0.90
6:N:409:U:C2	6:N:410:U:C5	2.60	0.90
6:N:442:U:C2'	6:N:443:U:H5'	2.01	0.90
6:N:497:U:O2'	6:N:498:U:C5'	2.17	0.90
1:I:71:A:C2'	1:I:72:A:H5'	1.99	0.89
1:I:143:A:C2	1:I:144:A:C5	2.60	0.89
1:I:164:A:H2'	1:I:165:A:C8	2.08	0.89
1:I:222:A:O2'	1:I:223:A:H5'	1.71	0.89
1:I:376:A:N1	1:I:377:A:C6	2.39	0.89
2:J:34:A:O2'	2:J:35:A:H5'	1.72	0.89
2:J:195:A:O2'	2:J:196:A:H5'	1.72	0.89
2:J:218:A:HO2'	2:J:219:A:H5'	1.30	0.89
4:L:751:U:C2'	4:L:752:U:H5'	1.99	0.89
6:N:378:U:C2	6:N:379:U:C5	2.61	0.89
6:N:483:U:C2	6:N:484:U:C5	2.60	0.89
1:I:48:A:C2'	1:I:49:A:H5'	1.99	0.89
1:I:147:A:C2'	1:I:148:A:C5'	2.49	0.89
1:I:388:A:O2'	1:I:389:A:H5'	1.72	0.89
2:J:29:A:C2	2:J:30:A:C4	2.60	0.89
2:J:43:A:O2'	2:J:44:A:C5'	2.15	0.89
4:L:543:U:C2	4:L:544:U:C5	2.60	0.89
4:L:599:U:C2	4:L:600:U:C5	2.59	0.89
4:L:714:U:H2'	4:L:715:U:C6	2.06	0.89
5:M:460:U:H2'	5:M:461:U:H6	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:463:U:C2	5:M:464:U:C6	2.59	0.89
6:N:459:U:C2	6:N:460:U:C5	2.60	0.89
1:I:353:A:H2'	1:I:354:A:C5'	1.99	0.89
2:J:54:A:O2'	2:J:55:A:C5'	2.21	0.89
2:J:81:A:C2'	2:J:82:A:H5'	2.01	0.89
2:J:136:A:C2	2:J:137:A:C5	2.60	0.89
3:K:65:A:C5	3:K:66:A:N7	2.39	0.89
3:K:192:A:H2'	3:K:193:A:H8	1.29	0.89
4:L:421:U:H2'	4:L:422:U:H6	1.37	0.89
4:L:487:U:H2'	4:L:488:U:C5'	2.00	0.89
4:L:811:U:N3	4:L:812:U:C5	2.41	0.89
5:M:452:U:C2'	5:M:453:U:H5'	2.01	0.89
5:M:483:U:C2'	5:M:484:U:C5'	2.49	0.89
6:N:327:U:C2'	6:N:328:U:C5'	2.50	0.89
1:I:49:A:C2	1:I:50:A:C8	2.61	0.89
1:I:177:A:O2'	1:I:178:A:H5'	1.70	0.89
1:I:258:A:C2'	1:I:259:A:C5'	2.48	0.89
1:I:310:A:C2'	1:I:311:A:H5'	1.99	0.89
2:J:216:A:O2'	2:J:217:A:P	2.29	0.89
3:K:95:A:C2'	3:K:96:A:C5'	2.50	0.89
3:K:132:A:HO2'	3:K:133:A:H5'	1.32	0.89
4:L:422:U:O2'	4:L:423:U:H5'	1.72	0.89
4:L:525:U:C2'	4:L:526:U:C5'	2.51	0.89
5:M:422:U:O2'	5:M:423:U:H5'	1.73	0.89
5:M:495:U:N3	5:M:496:U:C5	2.40	0.89
1:I:74:A:C2	1:I:75:A:C4	2.60	0.89
1:I:78:A:C4	1:I:79:A:C8	2.59	0.89
1:I:86:A:N6	1:I:87:A:H62	1.50	0.89
1:I:183:A:N3	1:I:184:A:C8	2.41	0.89
2:J:83:A:N3	2:J:84:A:N7	2.18	0.89
4:L:421:U:H2'	4:L:422:U:C6	2.08	0.89
4:L:466:U:C2'	4:L:467:U:C5'	2.49	0.89
4:L:715:U:HO2'	4:L:716:U:H5'	1.30	0.89
4:L:768:U:HO2'	4:L:769:U:H5'	1.30	0.89
5:M:319:U:C2'	5:M:320:U:C4'	2.49	0.89
5:M:322:U:H2'	5:M:323:U:O4'	1.72	0.89
1:I:109:A:H2	1:I:110:A:C4	1.87	0.89
1:I:136:A:C2	1:I:137:A:N9	2.41	0.89
1:I:140:A:C2	1:I:141:A:C5	2.60	0.89
1:I:254:A:C2'	1:I:255:A:C5'	2.50	0.89
2:J:37:A:O2'	2:J:38:A:C5'	2.18	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:61:A:C2	2:J:62:A:C5	2.60	0.89
2:J:265:A:HO2'	2:J:266:A:H5'	1.27	0.89
5:M:380:U:H2'	5:M:381:U:H6	1.37	0.89
1:I:66:A:C2'	1:I:67:A:C5'	2.49	0.89
1:I:223:A:O2'	1:I:224:A:H5'	1.73	0.89
1:I:245:A:C2	1:I:246:A:N7	2.40	0.89
1:I:267:A:N1	1:I:268:A:C6	2.40	0.89
1:I:310:A:O2'	1:I:311:A:H5'	1.73	0.89
2:J:143:A:N3	2:J:144:A:N9	2.20	0.89
3:K:142:A:C2	3:K:143:A:C4	2.61	0.89
4:L:478:U:O2'	4:L:479:U:H5'	1.73	0.89
4:L:537:U:C2'	4:L:538:U:C5'	2.51	0.89
4:L:550:U:C2'	4:L:551:U:H5'	2.03	0.89
4:L:587:U:O2'	4:L:588:U:C5'	2.21	0.89
4:L:594:U:HO2'	4:L:595:U:H5'	1.36	0.89
4:L:677:U:C2'	4:L:678:U:H5'	2.02	0.89
5:M:459:U:H2'	5:M:460:U:H6	1.37	0.89
5:M:512:U:H2'	5:M:513:U:O4'	1.72	0.89
6:N:293:U:H2'	6:N:294:U:H6	1.31	0.89
6:N:311:U:O2'	6:N:312:U:H5'	1.71	0.89
6:N:360:U:O2'	6:N:361:U:H5'	1.72	0.89
2:J:161:A:C2'	2:J:162:A:C5'	2.49	0.89
2:J:219:A:HO2'	2:J:220:A:H5'	1.29	0.89
3:K:166:A:H2'	3:K:167:A:O5'	1.72	0.89
4:L:590:U:O2'	4:L:591:U:H5'	1.72	0.89
4:L:677:U:O2'	4:L:678:U:C5'	2.19	0.89
4:L:767:U:H2'	4:L:768:U:C5	2.07	0.89
6:N:380:U:C2'	6:N:381:U:C5'	2.51	0.89
6:N:420:U:HO2'	6:N:421:U:H5'	1.06	0.89
6:N:441:U:O2'	6:N:442:U:H5'	1.70	0.89
1:I:183:A:C2	1:I:184:A:C8	2.60	0.89
2:J:91:A:O2'	2:J:92:A:H5'	1.73	0.89
2:J:117:A:C2	2:J:118:A:C5	2.60	0.89
2:J:215:A:N3	2:J:216:A:C8	2.40	0.89
4:L:572:U:HO2'	4:L:573:U:H5'	1.27	0.89
4:L:595:U:C2'	4:L:596:U:H5'	2.01	0.89
4:L:667:U:O2'	4:L:668:U:H5'	1.71	0.89
4:L:757:U:C2'	4:L:758:U:H6	1.85	0.89
6:N:466:U:HO2'	6:N:467:U:H5'	1.29	0.89
6:N:467:U:C2'	6:N:468:U:C5'	2.49	0.89
1:I:115:A:O2'	1:I:116:A:H5'	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:132:A:H2'	1:I:133:A:C5'	2.02	0.89
1:I:174:A:C2'	1:I:175:A:H5'	2.02	0.89
1:I:269:A:C4	1:I:270:A:C8	2.60	0.89
2:J:202:A:N3	2:J:203:A:C8	2.41	0.89
3:K:1:A:O2'	3:K:2:A:H5'	1.73	0.89
3:K:57:A:H2'	3:K:58:A:C8	2.08	0.89
3:K:166:A:C2'	3:K:167:A:H5'	2.01	0.89
4:L:459:U:H2'	4:L:460:U:O4'	1.73	0.89
4:L:460:U:C2'	4:L:461:U:H5'	2.01	0.89
4:L:611:U:H2'	4:L:612:U:C6	2.07	0.89
4:L:764:U:N3	4:L:765:U:C5	2.41	0.89
5:M:498:U:C2	5:M:499:U:C5	2.60	0.89
5:M:501:U:C2'	5:M:502:U:H6	1.85	0.89
6:N:349:U:C2	6:N:350:U:C5	2.61	0.89
1:I:277:A:C6	1:I:278:A:C6	2.61	0.88
2:J:26:A:HO2'	2:J:27:A:H5'	1.37	0.88
2:J:128:A:O2'	2:J:129:A:H5'	1.72	0.88
3:K:78:A:O2'	3:K:79:A:H5'	1.72	0.88
3:K:120:A:C2'	3:K:121:A:C5'	2.50	0.88
3:K:129:A:O2'	3:K:130:A:H5'	1.73	0.88
4:L:507:U:HO2'	4:L:508:U:H5'	1.11	0.88
4:L:567:U:C2'	4:L:568:U:H5'	2.02	0.88
4:L:722:U:O2	4:L:723:U:C4	2.20	0.88
4:L:751:U:C2	4:L:752:U:C6	2.61	0.88
4:L:754:U:H2'	4:L:755:U:O4'	1.72	0.88
5:M:369:U:O2'	5:M:370:U:C5'	2.18	0.88
5:M:494:U:HO2'	5:M:495:U:H5'	1.36	0.88
1:I:333:A:C2	1:I:334:A:C1'	2.56	0.88
2:J:54:A:C2'	2:J:55:A:H5'	2.03	0.88
2:J:203:A:O2'	2:J:204:A:H5'	1.74	0.88
2:J:265:A:C2	2:J:266:A:C8	2.61	0.88
3:K:117:A:N3	3:K:118:A:N7	2.20	0.88
3:K:174:A:O2'	3:K:175:A:H5'	1.72	0.88
3:K:256:A:C2'	3:K:257:A:H5'	2.03	0.88
4:L:544:U:C4	4:L:545:U:C4	2.61	0.88
5:M:321:U:C4	5:M:322:U:O4	2.26	0.88
1:I:69:A:O2'	1:I:70:A:C5'	2.18	0.88
1:I:179:A:C6	1:I:180:A:C5	2.62	0.88
1:I:280:A:C2	1:I:281:A:N7	2.42	0.88
2:J:47:A:C2	2:J:48:A:N9	2.42	0.88
2:J:176:A:N3	2:J:177:A:C8	2.40	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:49:A:HO2'	3:K:50:A:H5'	1.39	0.88
4:L:594:U:O2'	4:L:595:U:C5'	2.18	0.88
4:L:723:U:N3	4:L:724:U:C4	2.41	0.88
4:L:768:U:C2'	4:L:769:U:H5'	2.02	0.88
4:L:770:U:C2	4:L:771:U:C5	2.61	0.88
1:I:45:A:O2'	1:I:46:A:H5'	1.73	0.88
1:I:62:A:C2'	1:I:63:A:H5'	2.04	0.88
1:I:342:A:H2'	1:I:343:A:C5'	2.02	0.88
2:J:236:A:N3	2:J:237:A:C8	2.41	0.88
2:J:248:A:C5	2:J:249:A:N7	2.41	0.88
3:K:153:A:C2	3:K:154:A:N9	2.41	0.88
3:K:166:A:C2	3:K:167:A:N9	2.41	0.88
4:L:573:U:C2	4:L:574:U:C5	2.62	0.88
5:M:489:U:C2	5:M:490:U:C6	2.60	0.88
5:M:502:U:O2'	5:M:503:U:H5'	1.73	0.88
5:M:505:U:HO2'	5:M:506:U:H5'	1.13	0.88
6:N:316:U:H2'	6:N:317:U:O4'	1.73	0.88
6:N:426:U:H2'	6:N:427:U:H6	1.36	0.88
1:I:21:A:H2'	1:I:22:A:O4'	1.73	0.88
1:I:66:A:C5	1:I:67:A:N7	2.42	0.88
1:I:185:A:O2'	1:I:186:A:H5'	1.74	0.88
1:I:274:A:C2	1:I:275:A:C4	2.62	0.88
4:L:584:U:O2'	4:L:585:U:C5'	2.19	0.88
5:M:328:U:O2'	5:M:329:U:P	2.29	0.88
5:M:408:U:H2'	5:M:409:U:O5'	1.73	0.88
5:M:476:U:O2'	5:M:477:U:H5'	1.72	0.88
6:N:526:U:C2'	6:N:527:U:H5'	2.03	0.88
1:I:25:A:C2'	1:I:26:A:H5'	2.02	0.88
1:I:64:A:C2'	1:I:65:A:H5'	2.02	0.88
1:I:66:A:H2'	1:I:67:A:O4'	1.74	0.88
1:I:78:A:C2	1:I:79:A:N7	2.41	0.88
1:I:231:A:C4	1:I:232:A:C8	2.61	0.88
1:I:279:A:O2'	1:I:280:A:H5'	0.70	0.88
2:J:29:A:H2'	2:J:30:A:O4'	1.74	0.88
2:J:249:A:C2'	2:J:250:A:C5'	2.50	0.88
3:K:54:A:C3'	3:K:55:A:OP2	2.21	0.88
3:K:114:A:C2	3:K:115:A:C4	2.60	0.88
3:K:166:A:C2	3:K:167:A:C8	2.62	0.88
4:L:815:U:HO2'	4:L:816:U:H5'	1.35	0.88
5:M:525:U:C2'	5:M:526:U:C5'	2.51	0.88
5:M:529:U:O2'	5:M:530:U:H5'	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:41:A:O2'	1:I:42:A:C5'	2.21	0.88
1:I:74:A:H2'	1:I:75:A:C4'	2.03	0.88
1:I:274:A:C2	1:I:275:A:N9	2.41	0.88
1:I:295:A:HO2'	1:I:296:A:H5'	1.29	0.88
2:J:29:A:H2'	2:J:30:A:C4'	2.03	0.88
2:J:34:A:N3	2:J:35:A:C8	2.42	0.88
3:K:118:A:C2	3:K:119:A:C4	2.61	0.88
3:K:118:A:C2	3:K:119:A:N9	2.42	0.88
4:L:436:U:C2'	4:L:437:U:O4'	2.21	0.88
4:L:461:U:H2'	4:L:462:U:H6	1.37	0.88
4:L:624:U:O2'	4:L:625:U:H5'	1.74	0.88
4:L:715:U:HO2'	4:L:716:U:C5'	1.76	0.88
4:L:810:U:C2'	4:L:811:U:H5'	2.01	0.88
5:M:330:U:O2'	5:M:331:U:H5'	1.74	0.88
6:N:379:U:HO2'	6:N:380:U:H5'	1.37	0.88
6:N:440:U:HO2'	6:N:441:U:H5'	1.36	0.88
1:I:67:A:H2'	1:I:68:A:C8	2.08	0.88
2:J:42:A:O2'	2:J:43:A:O4'	1.91	0.88
2:J:117:A:C2	2:J:118:A:N9	2.40	0.88
2:J:166:A:C2	2:J:167:A:C5	2.62	0.88
2:J:248:A:N6	2:J:249:A:H62	1.64	0.88
3:K:89:A:N3	3:K:90:A:N7	2.18	0.88
4:L:520:U:O2'	4:L:521:U:H5'	1.73	0.88
4:L:756:U:C2	4:L:757:U:C5	2.62	0.88
5:M:386:U:H2'	5:M:387:U:C6	2.09	0.88
5:M:534:U:C2	5:M:535:U:C5	2.61	0.88
5:M:548:U:HO3'	5:M:549:U:P	1.94	0.88
6:N:363:U:C2	6:N:364:U:C5	2.61	0.88
6:N:365:U:O2'	6:N:366:U:H5'	1.73	0.88
1:I:65:A:C2	1:I:66:A:C4	2.61	0.88
1:I:90:A:C2'	1:I:91:A:H5'	2.04	0.88
1:I:251:A:H2'	1:I:252:A:C8	2.09	0.88
2:J:67:A:C2'	2:J:68:A:H5'	2.04	0.88
2:J:229:A:C2	2:J:230:A:C4	2.61	0.88
3:K:156:A:O2'	3:K:157:A:C4'	2.22	0.88
4:L:496:U:H2'	4:L:497:U:H6	1.37	0.88
4:L:578:U:C2'	4:L:579:U:H5'	2.03	0.88
4:L:583:U:H2'	4:L:584:U:H6	1.39	0.88
4:L:672:U:C2	4:L:673:U:C5	2.62	0.88
4:L:806:U:H2'	4:L:807:U:H6	1.37	0.88
5:M:449:U:C2'	5:M:450:U:C5'	2.49	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:469:U:H2'	5:M:470:U:H6	1.39	0.88
5:M:486:U:O2'	5:M:487:U:C5'	2.20	0.88
6:N:460:U:C2	6:N:461:U:C5	2.62	0.88
1:I:179:A:H61	1:I:180:A:N6	1.65	0.88
1:I:240:A:O2'	1:I:241:A:H5'	1.72	0.88
1:I:323:A:C2	1:I:324:A:C4	2.61	0.88
2:J:58:A:C2'	2:J:59:A:C5'	2.51	0.88
2:J:88:A:C2'	2:J:89:A:C5'	2.51	0.88
2:J:125:A:N6	2:J:126:A:N6	2.22	0.88
2:J:133:A:HO2'	2:J:134:A:H5'	1.15	0.88
2:J:147:A:O2'	2:J:148:A:P	2.31	0.88
2:J:165:A:C4	2:J:166:A:N7	2.41	0.88
2:J:216:A:N1	2:J:217:A:N6	2.21	0.88
3:K:96:A:C2'	3:K:97:A:H5'	2.02	0.88
3:K:165:A:HO2'	3:K:166:A:H5'	1.30	0.88
4:L:541:U:H2'	4:L:542:U:H6	1.38	0.88
4:L:589:U:O2'	4:L:590:U:H5'	1.74	0.88
4:L:596:U:C2	4:L:597:U:C5	2.61	0.88
4:L:722:U:H2'	4:L:723:U:H6	1.39	0.88
5:M:501:U:C2'	5:M:502:U:C6	2.57	0.88
1:I:84:A:C2	1:I:85:A:C5	2.62	0.87
1:I:260:A:C2'	1:I:261:A:C5'	2.51	0.87
1:I:277:A:N6	1:I:278:A:H62	1.64	0.87
1:I:361:A:C2'	1:I:362:A:H5'	2.03	0.87
3:K:105:A:C4	3:K:106:A:N7	2.42	0.87
3:K:181:A:C2	3:K:182:A:C4	2.61	0.87
4:L:533:U:C2'	4:L:534:U:H5'	2.03	0.87
4:L:709:U:O2'	4:L:710:U:H5'	1.74	0.87
4:L:728:U:N3	4:L:729:U:O4	2.07	0.87
4:L:736:U:HO2'	4:L:737:U:H5'	1.06	0.87
5:M:297:U:O2'	5:M:298:U:H5'	1.74	0.87
5:M:447:U:H2'	5:M:448:U:H6	1.39	0.87
6:N:281:U:C2'	6:N:282:U:C5'	2.52	0.87
6:N:480:U:O2'	6:N:481:U:H5'	1.73	0.87
1:I:122:A:C2'	1:I:123:A:C5'	2.51	0.87
1:I:281:A:N6	1:I:282:A:H62	1.69	0.87
1:I:340:A:N3	1:I:341:A:C8	2.43	0.87
3:K:167:A:C6	3:K:168:A:N7	2.43	0.87
4:L:718:U:C2'	4:L:719:U:C5'	2.52	0.87
4:L:764:U:C2	4:L:765:U:C5	2.63	0.87
4:L:794:U:C2'	4:L:795:U:H5'	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:810:U:C2	4:L:811:U:C6	2.63	0.87
1:I:17:A:HO2'	1:I:18:A:H5'	1.06	0.87
1:I:233:A:H2'	1:I:234:A:C5'	2.02	0.87
2:J:34:A:C2	2:J:35:A:C8	2.62	0.87
2:J:56:A:C2	2:J:57:A:N9	2.42	0.87
2:J:88:A:C2	2:J:89:A:C4	2.62	0.87
2:J:182:A:C6	2:J:183:A:C6	2.62	0.87
3:K:211:A:H2'	3:K:212:A:C8	2.09	0.87
4:L:501:U:O2	4:L:502:U:C6	2.28	0.87
4:L:576:U:C2	4:L:577:U:C6	2.61	0.87
5:M:319:U:C2'	5:M:320:U:O4'	2.20	0.87
5:M:463:U:C2'	5:M:464:U:H5'	2.04	0.87
5:M:465:U:H2'	5:M:466:U:C5'	2.04	0.87
6:N:462:U:C2'	6:N:463:U:H5'	2.03	0.87
1:I:164:A:N3	1:I:165:A:C8	2.43	0.87
1:I:187:A:H2'	1:I:188:A:H8	1.39	0.87
1:I:270:A:C4	1:I:271:A:C8	2.62	0.87
1:I:286:A:C5	1:I:287:A:N7	2.42	0.87
1:I:299:A:O2'	1:I:300:A:C5'	2.22	0.87
1:I:306:A:C2	1:I:307:A:C8	2.62	0.87
2:J:89:A:C2	2:J:90:A:C8	2.61	0.87
2:J:135:A:N6	2:J:136:A:H62	1.72	0.87
2:J:206:A:C2	2:J:207:A:C4	2.62	0.87
2:J:206:A:HO2'	2:J:207:A:H5'	1.08	0.87
2:J:241:A:C3'	2:J:242:A:P	2.61	0.87
3:K:45:A:H2'	3:K:46:A:O4'	1.74	0.87
3:K:114:A:H2'	3:K:115:A:H8	1.37	0.87
4:L:557:U:C4	4:L:558:U:C5	2.62	0.87
4:L:647:U:C2'	4:L:648:U:C5'	2.51	0.87
4:L:660:U:C2'	4:L:661:U:O4'	2.23	0.87
4:L:723:U:C5	4:L:724:U:C4	2.56	0.87
6:N:399:U:N3	6:N:400:U:C5	2.41	0.87
6:N:435:U:O2'	6:N:436:U:H5'	1.74	0.87
6:N:485:U:O2'	6:N:486:U:C5'	2.22	0.87
1:I:56:A:C2	1:I:57:A:C4	2.63	0.87
1:I:207:A:O2'	1:I:208:A:C5'	2.20	0.87
2:J:69:A:HO2'	2:J:70:A:H5'	1.38	0.87
2:J:191:A:C2'	2:J:192:A:H5'	2.05	0.87
4:L:559:U:C2	4:L:560:U:C5	2.62	0.87
4:L:775:U:HO2'	4:L:776:U:H5'	1.33	0.87
4:L:799:U:O2'	4:L:800:U:C5'	2.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:384:U:O2'	6:N:385:U:H5'	1.74	0.87
1:I:12:A:O2'	1:I:13:A:C5'	2.21	0.87
1:I:238:A:H2'	1:I:239:A:H8	1.39	0.87
1:I:268:A:C2	1:I:269:A:C8	2.62	0.87
1:I:291:A:C2'	1:I:292:A:C5'	2.53	0.87
2:J:79:A:H2'	2:J:80:A:C5'	2.03	0.87
2:J:88:A:HO2'	2:J:89:A:H5'	1.04	0.87
2:J:145:A:C6	2:J:146:A:N7	2.43	0.87
4:L:585:U:HO2'	4:L:586:U:H5'	1.07	0.87
4:L:724:U:C3'	4:L:725:U:H5'	1.85	0.87
4:L:767:U:O2	4:L:768:U:C5	2.27	0.87
5:M:377:U:H2'	5:M:378:U:H6	1.39	0.87
5:M:465:U:C2	5:M:466:U:C6	2.63	0.87
6:N:377:U:H2'	6:N:378:U:H6	1.37	0.87
1:I:8:A:N6	1:I:9:A:H62	1.73	0.87
1:I:55:A:C2	1:I:56:A:C8	2.62	0.87
1:I:255:A:O2'	1:I:256:A:C5'	2.20	0.87
1:I:299:A:C2'	1:I:300:A:H5'	2.04	0.87
2:J:205:A:HO2'	2:J:206:A:H5'	1.09	0.87
2:J:223:A:C2'	2:J:224:A:C5'	2.49	0.87
2:J:242:A:HO3'	2:J:243:A:P	1.94	0.87
3:K:203:A:H2'	3:K:204:A:C8	2.10	0.87
4:L:417:U:O2'	4:L:418:U:H5'	1.74	0.87
5:M:348:U:C4	5:M:349:U:C4	2.63	0.87
5:M:393:U:C2	5:M:394:U:C5	2.63	0.87
6:N:281:U:HO2'	6:N:282:U:H5'	1.36	0.87
1:I:119:A:N3	1:I:120:A:C8	2.43	0.87
1:I:181:A:N6	1:I:182:A:H62	1.70	0.87
2:J:54:A:C2'	2:J:55:A:C5'	2.52	0.87
2:J:88:A:N3	2:J:89:A:C8	2.43	0.87
2:J:214:A:C2	2:J:215:A:N9	2.43	0.87
3:K:46:A:O3'	3:K:47:A:C5'	2.22	0.87
3:K:125:A:HO2'	3:K:126:A:H5'	1.36	0.87
3:K:210:A:O2'	3:K:211:A:C5'	2.22	0.87
4:L:722:U:O2'	4:L:723:U:O5'	1.91	0.87
5:M:392:U:H2'	5:M:393:U:C6	2.10	0.87
5:M:481:U:C2	5:M:482:U:C5	2.63	0.87
5:M:523:U:O2	5:M:524:U:C6	2.27	0.87
6:N:430:U:C2	6:N:431:U:C6	2.63	0.87
1:I:267:A:C2	1:I:268:A:C6	2.62	0.87
2:J:22:A:O2'	2:J:23:A:H5'	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:129:A:H2'	2:J:130:A:O4'	1.73	0.87
3:K:38:A:O2'	3:K:39:A:C5'	2.22	0.87
4:L:552:U:C2	4:L:553:U:C5	2.63	0.87
4:L:556:U:C2	4:L:557:U:C6	2.63	0.87
4:L:770:U:C4	4:L:771:U:C4	2.62	0.87
6:N:406:U:C2'	6:N:407:U:H5'	2.05	0.87
6:N:476:U:C2'	6:N:477:U:H5'	2.04	0.87
6:N:489:U:O2'	6:N:490:U:P	2.33	0.87
1:I:130:A:C2	1:I:131:A:C8	2.63	0.86
1:I:240:A:C2	1:I:241:A:N7	2.43	0.86
1:I:270:A:H2'	1:I:271:A:C5'	2.00	0.86
1:I:304:A:O2'	1:I:305:A:H5'	1.74	0.86
3:K:167:A:C2'	3:K:168:A:H5'	2.04	0.86
3:K:251:A:H3'	3:K:252:A:OP2	1.73	0.86
4:L:548:U:H2'	4:L:549:U:C6	2.10	0.86
4:L:766:U:C2'	4:L:767:U:H6	1.88	0.86
5:M:520:U:C2'	5:M:521:U:H5'	2.02	0.86
1:I:71:A:O2'	1:I:72:A:H5'	1.76	0.86
1:I:86:A:H61	1:I:87:A:N6	1.71	0.86
1:I:330:A:C2'	1:I:331:A:C5'	2.53	0.86
2:J:223:A:H2'	2:J:224:A:H5'	1.49	0.86
3:K:168:A:H2'	3:K:169:A:C4'	2.06	0.86
5:M:453:U:O2'	5:M:454:U:H5'	1.75	0.86
5:M:458:U:HO2'	5:M:459:U:H5'	1.11	0.86
5:M:462:U:H2'	5:M:463:U:H6	1.40	0.86
1:I:62:A:C2'	1:I:63:A:C5'	2.53	0.86
1:I:250:A:C4	1:I:251:A:C8	2.64	0.86
2:J:176:A:HO2'	2:J:177:A:H5'	1.40	0.86
4:L:504:U:C2'	4:L:505:U:H5'	2.04	0.86
4:L:757:U:C2	4:L:758:U:C6	2.63	0.86
4:L:766:U:N3	4:L:767:U:C4	2.43	0.86
1:I:56:A:N3	1:I:57:A:C8	2.43	0.86
1:I:106:A:H2'	1:I:107:A:H8	1.40	0.86
1:I:131:A:C5	1:I:132:A:N7	2.44	0.86
1:I:254:A:O2'	1:I:255:A:C5'	2.20	0.86
2:J:124:A:N3	2:J:125:A:C8	2.43	0.86
2:J:165:A:C2	2:J:166:A:C4	2.63	0.86
2:J:171:A:C6	2:J:172:A:N6	2.43	0.86
3:K:198:A:H2'	3:K:199:A:C8	2.11	0.86
4:L:544:U:C4	4:L:545:U:C5	2.63	0.86
4:L:694:U:HO2'	4:L:695:U:H5'	1.36	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:718:U:C2'	4:L:719:U:H5'	2.04	0.86
5:M:376:U:C2'	5:M:377:U:O4'	2.22	0.86
5:M:488:U:O2'	5:M:489:U:H5'	1.73	0.86
6:N:302:U:H2'	6:N:303:U:C6	2.10	0.86
6:N:417:U:C2'	6:N:418:U:O4'	2.22	0.86
6:N:427:U:C2'	6:N:428:U:H5'	2.05	0.86
6:N:450:U:H2'	6:N:451:U:H6	1.40	0.86
1:I:40:A:HO3'	1:I:41:A:P	1.90	0.86
1:I:133:A:O2'	1:I:134:A:C4'	2.22	0.86
1:I:274:A:N3	1:I:275:A:C8	2.44	0.86
3:K:154:A:N6	3:K:155:A:N6	2.24	0.86
4:L:746:U:O2'	4:L:747:U:O5'	1.92	0.86
5:M:323:U:O2'	5:M:324:U:O4'	1.84	0.86
5:M:361:U:C2	5:M:362:U:C5	2.63	0.86
5:M:433:U:N3	5:M:434:U:C5	2.43	0.86
5:M:465:U:C4	5:M:466:U:C5	2.63	0.86
6:N:386:U:H2'	6:N:387:U:H6	1.40	0.86
6:N:426:U:H2'	6:N:427:U:O4'	1.73	0.86
6:N:450:U:C2	6:N:451:U:C6	2.64	0.86
6:N:496:U:C2'	6:N:497:U:H5'	2.05	0.86
1:I:12:A:C2'	1:I:13:A:C5'	2.53	0.86
1:I:106:A:H2	1:I:107:A:C4	1.89	0.86
1:I:133:A:H2'	1:I:134:A:C4'	2.05	0.86
2:J:72:A:O2'	2:J:73:A:C5'	2.23	0.86
2:J:132:A:O2'	2:J:133:A:C5'	2.23	0.86
2:J:168:A:O3'	2:J:169:A:OP2	1.92	0.86
2:J:233:A:O2'	2:J:234:A:C5'	2.23	0.86
5:M:349:U:C2	5:M:350:U:C6	2.63	0.86
5:M:430:U:C2	5:M:431:U:C5	2.64	0.86
5:M:468:U:O2	5:M:469:U:C5	2.29	0.86
6:N:398:U:O2'	6:N:399:U:C5'	2.22	0.86
6:N:410:U:C2	6:N:411:U:C5	2.64	0.86
6:N:425:U:C4	6:N:426:U:C4	2.63	0.86
1:I:73:A:H2'	1:I:74:A:C8	2.11	0.86
1:I:133:A:HO2'	1:I:134:A:H5'	1.05	0.86
1:I:164:A:O2'	1:I:165:A:P	2.34	0.86
1:I:306:A:C2'	1:I:307:A:C5'	2.52	0.86
2:J:54:A:C2'	2:J:55:A:O4'	2.22	0.86
2:J:84:A:H2'	2:J:85:A:C5'	2.06	0.86
3:K:46:A:H2'	3:K:47:A:O4'	1.76	0.86
3:K:76:A:C2'	3:K:77:A:H5'	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:101:A:C5	3:K:102:A:N7	2.44	0.86
3:K:188:A:O2'	3:K:189:A:H5'	1.74	0.86
3:K:254:A:C2'	3:K:255:A:H5'	2.05	0.86
4:L:643:U:C2	4:L:644:U:C5	2.63	0.86
4:L:686:U:O2'	4:L:687:U:C5'	2.24	0.86
4:L:688:U:C2'	4:L:689:U:H5'	2.04	0.86
4:L:714:U:H2'	4:L:715:U:H6	1.40	0.86
4:L:731:U:O2'	4:L:732:U:H5'	1.74	0.86
4:L:765:U:H2'	4:L:766:U:O4'	1.74	0.86
5:M:464:U:H2'	5:M:465:U:O5'	1.75	0.86
5:M:465:U:N3	5:M:466:U:C5	2.43	0.86
6:N:379:U:H2'	6:N:380:U:C5'	2.04	0.86
6:N:486:U:H2'	6:N:487:U:H6	1.37	0.86
1:I:4:A:C6	1:I:5:A:N6	2.44	0.86
1:I:236:A:N3	1:I:237:A:C8	2.44	0.86
1:I:358:A:C2	1:I:359:A:N7	2.44	0.86
1:I:403:A:O2'	1:I:404:A:C5'	2.24	0.86
2:J:29:A:C2	2:J:30:A:N9	2.43	0.86
3:K:100:A:H2'	3:K:101:A:C5'	2.05	0.86
4:L:435:U:O2'	4:L:436:U:H5'	1.76	0.86
4:L:448:U:C2	4:L:449:U:H5	1.92	0.86
4:L:682:U:H2'	4:L:683:U:H6	1.39	0.86
4:L:739:U:O2	4:L:740:U:C6	2.28	0.86
5:M:290:U:C2'	5:M:291:U:H5'	2.05	0.86
5:M:315:U:O2'	5:M:316:U:H5'	1.76	0.86
6:N:417:U:H2'	6:N:418:U:H6	1.41	0.86
1:I:78:A:H2	1:I:79:A:C4	1.92	0.86
1:I:182:A:O2'	1:I:183:A:H5'	1.74	0.86
2:J:43:A:C4	2:J:44:A:C8	2.63	0.86
2:J:117:A:H2	2:J:118:A:C4	1.89	0.86
3:K:82:A:O2'	3:K:83:A:H5'	1.72	0.86
3:K:120:A:C5	3:K:121:A:C8	2.63	0.86
3:K:164:A:N6	3:K:165:A:N6	2.24	0.86
4:L:463:U:C2'	4:L:464:U:H5'	2.06	0.86
4:L:547:U:O4	4:L:548:U:O4	1.93	0.86
5:M:316:U:N3	5:M:317:U:C5	2.44	0.86
5:M:512:U:H2'	5:M:513:U:H6	1.39	0.86
6:N:496:U:C2'	6:N:497:U:O4'	2.24	0.86
1:I:277:A:C4	1:I:278:A:N7	2.44	0.86
2:J:202:A:C2'	2:J:203:A:C5'	2.54	0.86
3:K:130:A:HO2'	3:K:131:A:H5'	1.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:722:U:C2'	4:L:723:U:H5	1.88	0.86
4:L:722:U:N1	4:L:723:U:H5	1.74	0.86
5:M:288:U:H2'	5:M:289:U:H6	1.40	0.86
5:M:455:U:H2'	5:M:456:U:C5'	2.04	0.86
5:M:501:U:C2	5:M:502:U:C5	2.63	0.86
5:M:505:U:C2'	5:M:506:U:C5'	2.51	0.86
1:I:17:A:C2	1:I:18:A:N9	2.44	0.85
1:I:91:A:H2'	1:I:92:A:O5'	1.74	0.85
1:I:229:A:C2'	1:I:230:A:C5'	2.53	0.85
1:I:288:A:O2'	1:I:289:A:H5'	1.75	0.85
1:I:329:A:H2'	1:I:330:A:O4'	1.76	0.85
2:J:55:A:C5	2:J:56:A:N7	2.43	0.85
2:J:63:A:O2'	2:J:64:A:H5'	1.75	0.85
2:J:72:A:C2'	2:J:73:A:C5'	2.53	0.85
3:K:57:A:H2'	3:K:58:A:H8	1.40	0.85
4:L:451:U:H3'	4:L:452:U:OP2	1.74	0.85
4:L:529:U:HO2'	4:L:530:U:H5'	1.34	0.85
4:L:540:U:HO2'	4:L:541:U:H5'	1.36	0.85
4:L:550:U:H2'	4:L:551:U:O5'	1.74	0.85
4:L:683:U:H2'	4:L:684:U:H6	1.41	0.85
5:M:336:U:H2'	5:M:337:U:C5'	1.97	0.85
5:M:410:U:N3	5:M:411:U:C5	2.44	0.85
6:N:436:U:H2'	6:N:437:U:H6	1.38	0.85
1:I:14:A:O2'	1:I:15:A:C5'	2.24	0.85
1:I:64:A:C2'	1:I:65:A:C5'	2.54	0.85
1:I:86:A:N6	1:I:87:A:C6	2.43	0.85
1:I:192:A:O2'	1:I:193:A:H5'	1.76	0.85
1:I:404:A:N6	1:I:405:A:N6	2.25	0.85
2:J:103:A:C2'	2:J:104:A:H5'	2.06	0.85
2:J:120:A:HO2'	2:J:121:A:H5'	1.40	0.85
3:K:96:A:C2'	3:K:97:A:O4'	2.23	0.85
4:L:587:U:H2'	4:L:588:U:O4'	1.76	0.85
4:L:593:U:N3	4:L:594:U:C5	2.44	0.85
4:L:649:U:H2'	4:L:650:U:O4'	1.76	0.85
4:L:708:U:O2'	4:L:709:U:C5'	2.22	0.85
4:L:743:U:C2'	4:L:744:U:H5'	2.05	0.85
4:L:777:U:H2'	4:L:778:U:O4'	1.75	0.85
5:M:488:U:H2'	5:M:489:U:H6	1.35	0.85
1:I:11:A:N6	1:I:12:A:N6	2.22	0.85
1:I:82:A:H2'	1:I:83:A:C4'	2.06	0.85
1:I:133:A:C2'	1:I:134:A:O4'	2.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:314:A:O2'	1:I:315:A:C5'	2.24	0.85
1:I:376:A:N6	1:I:377:A:H62	1.50	0.85
3:K:120:A:N6	3:K:121:A:N6	2.23	0.85
3:K:142:A:O2'	3:K:143:A:H5'	1.77	0.85
4:L:422:U:H2'	4:L:423:U:C6	2.10	0.85
4:L:502:U:C2	4:L:503:U:C5	2.64	0.85
4:L:550:U:C2'	4:L:551:U:C5'	2.53	0.85
4:L:571:U:C4	4:L:572:U:O4	2.30	0.85
4:L:660:U:C2'	4:L:661:U:H5'	2.06	0.85
5:M:396:U:HO2'	5:M:397:U:H5'	1.39	0.85
1:I:75:A:H2'	1:I:76:A:C5'	2.03	0.85
1:I:85:A:H2'	1:I:86:A:O5'	1.75	0.85
1:I:101:A:C2	1:I:102:A:N6	2.41	0.85
1:I:280:A:N3	1:I:281:A:N7	2.25	0.85
1:I:282:A:C2	1:I:283:A:N7	2.44	0.85
1:I:315:A:C2'	1:I:316:A:H5'	2.07	0.85
1:I:388:A:C2'	1:I:389:A:O4'	2.24	0.85
2:J:159:A:N6	2:J:160:A:N6	2.25	0.85
2:J:204:A:C6	2:J:205:A:C5	2.65	0.85
3:K:105:A:H2'	3:K:106:A:H8	1.06	0.85
3:K:168:A:C2'	3:K:169:A:O4'	2.24	0.85
3:K:203:A:H2'	3:K:204:A:H8	1.41	0.85
3:K:214:A:H2'	3:K:215:A:H8	1.33	0.85
4:L:421:U:C2'	4:L:422:U:O4'	2.24	0.85
4:L:693:U:O4	4:L:694:U:O4	1.92	0.85
4:L:768:U:C2'	4:L:769:U:C5'	2.53	0.85
1:I:13:A:C5	1:I:14:A:N7	2.44	0.85
1:I:85:A:C2'	1:I:86:A:H5'	2.05	0.85
1:I:109:A:N3	1:I:110:A:N9	2.23	0.85
1:I:324:A:C2	1:I:325:A:C8	2.65	0.85
2:J:61:A:O2'	2:J:62:A:P	2.34	0.85
3:K:236:A:O2'	3:K:237:A:H5'	1.74	0.85
4:L:422:U:H2'	4:L:423:U:H6	1.38	0.85
4:L:499:U:C2	4:L:500:U:C5	2.65	0.85
4:L:595:U:C2'	4:L:596:U:C5'	2.55	0.85
4:L:760:U:C2'	4:L:761:U:H5'	2.01	0.85
6:N:362:U:C2'	6:N:363:U:H5'	2.07	0.85
6:N:485:U:O3'	6:N:486:U:O5'	1.94	0.85
2:J:98:A:H2'	2:J:99:A:C8	2.11	0.85
2:J:117:A:H2'	2:J:118:A:C8	2.11	0.85
3:K:31:A:C6	3:K:32:A:N6	2.45	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:119:A:C2	3:K:120:A:C4	2.64	0.85
3:K:155:A:C2'	3:K:156:A:O4'	2.23	0.85
4:L:461:U:H2'	4:L:462:U:C6	2.12	0.85
4:L:693:U:N3	4:L:694:U:C5	2.44	0.85
5:M:524:U:N3	5:M:525:U:C5	2.45	0.85
6:N:489:U:O2'	6:N:490:U:H5'	1.77	0.85
1:I:70:A:O2'	1:I:71:A:C5'	2.24	0.85
1:I:86:A:C6	1:I:87:A:N7	2.45	0.85
1:I:248:A:N3	1:I:249:A:C8	2.45	0.85
1:I:269:A:O2'	1:I:270:A:C5'	2.20	0.85
2:J:40:A:H2'	2:J:41:A:H8	1.41	0.85
2:J:104:A:O2'	2:J:105:A:C5'	2.25	0.85
2:J:127:A:H2'	2:J:128:A:O5'	1.75	0.85
2:J:229:A:O2'	2:J:230:A:O4'	1.95	0.85
4:L:811:U:N3	4:L:812:U:C4	2.44	0.85
5:M:459:U:O2'	5:M:460:U:H5'	1.77	0.85
5:M:523:U:O2'	5:M:524:U:H5'	1.76	0.85
6:N:426:U:H2'	6:N:427:U:C5'	2.04	0.85
1:I:33:A:HO2'	1:I:34:A:H5'	1.37	0.85
2:J:69:A:C3'	2:J:70:A:H5'	1.92	0.85
3:K:154:A:C6	3:K:155:A:C5	2.65	0.85
3:K:202:A:H2'	3:K:203:A:C8	2.12	0.85
4:L:550:U:C2'	4:L:551:U:O5'	2.25	0.85
4:L:586:U:N3	4:L:587:U:C4	2.45	0.85
4:L:671:U:H2'	4:L:672:U:H6	1.40	0.85
4:L:811:U:O2'	4:L:812:U:O4'	1.94	0.85
6:N:406:U:C4	6:N:407:U:C4	2.64	0.85
1:I:87:A:H2'	1:I:88:A:C5'	2.06	0.85
1:I:187:A:H2'	1:I:188:A:C8	2.12	0.85
1:I:195:A:O2'	1:I:196:A:H5'	1.77	0.85
1:I:245:A:C2	1:I:246:A:C8	2.64	0.85
1:I:277:A:H2'	1:I:278:A:H8	1.36	0.85
2:J:37:A:C2	2:J:38:A:C8	2.65	0.85
2:J:97:A:N3	2:J:98:A:N7	2.22	0.85
2:J:237:A:N3	2:J:238:A:C8	2.45	0.85
3:K:38:A:N3	3:K:39:A:C8	2.45	0.85
3:K:95:A:O2'	3:K:96:A:C5'	2.20	0.85
3:K:132:A:C2'	3:K:133:A:H5'	2.07	0.85
4:L:489:U:C2	4:L:490:U:C5	2.65	0.85
4:L:496:U:O2'	4:L:497:U:H5'	1.75	0.85
4:L:565:U:O2'	4:L:566:U:H5'	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:639:U:C2'	4:L:640:U:H5'	2.07	0.85
6:N:331:U:H2'	6:N:332:U:H6	1.39	0.85
6:N:468:U:C2	6:N:469:U:C5	2.65	0.85
6:N:486:U:H2'	6:N:487:U:O4'	1.77	0.85
1:I:30:A:O2'	1:I:31:A:C5'	2.23	0.85
1:I:126:A:O2'	1:I:127:A:C5'	2.23	0.85
1:I:134:A:C2	1:I:135:A:C8	2.60	0.85
1:I:140:A:N6	1:I:141:A:N6	2.24	0.85
1:I:239:A:C2'	1:I:240:A:H5'	2.07	0.85
1:I:328:A:H2'	1:I:329:A:H8	1.41	0.85
1:I:388:A:O2'	1:I:389:A:O4'	1.94	0.85
2:J:204:A:H2'	2:J:205:A:H8	1.41	0.85
4:L:497:U:C2	4:L:498:U:C6	2.65	0.85
4:L:760:U:C2'	4:L:761:U:C5'	2.55	0.85
5:M:377:U:O2'	5:M:378:U:H5'	1.76	0.85
5:M:442:U:O2'	5:M:443:U:H5'	1.75	0.85
5:M:502:U:O2'	5:M:503:U:P	2.34	0.85
5:M:512:U:H2'	5:M:513:U:C6	2.12	0.85
1:I:10:A:O2'	1:I:11:A:H5'	1.76	0.84
1:I:338:A:N6	1:I:339:A:N6	2.24	0.84
2:J:128:A:C2'	2:J:129:A:H5'	2.07	0.84
2:J:135:A:C6	2:J:136:A:N6	2.45	0.84
3:K:49:A:O2'	3:K:50:A:P	2.35	0.84
3:K:100:A:C2	3:K:101:A:C4	2.65	0.84
3:K:147:A:N3	3:K:148:A:C8	2.45	0.84
3:K:153:A:H2	3:K:154:A:C4	1.93	0.84
3:K:166:A:C2'	3:K:167:A:C5'	2.55	0.84
4:L:495:U:H2'	4:L:496:U:H6	1.41	0.84
4:L:516:U:H2'	4:L:517:U:O4'	1.76	0.84
4:L:586:U:H2'	4:L:587:U:H6	1.42	0.84
4:L:815:U:H2'	4:L:816:U:C5'	2.07	0.84
5:M:407:U:C2	5:M:408:U:H5	1.95	0.84
5:M:488:U:C2	5:M:489:U:C5	2.64	0.84
6:N:524:U:O3'	6:N:525:U:OP2	1.91	0.84
1:I:85:A:HO2'	1:I:86:A:H5'	1.07	0.84
1:I:236:A:C2'	1:I:237:A:H5'	2.06	0.84
2:J:48:A:O2'	2:J:49:A:H5'	1.76	0.84
2:J:72:A:H2'	2:J:73:A:O4'	1.77	0.84
2:J:175:A:H2'	2:J:176:A:H8	1.42	0.84
3:K:114:A:N3	3:K:115:A:C8	2.45	0.84
4:L:435:U:H2'	4:L:436:U:C6	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:515:U:H2'	4:L:516:U:C6	2.12	0.84
4:L:549:U:C2	4:L:550:U:C6	2.65	0.84
4:L:763:U:C2'	4:L:764:U:O4'	2.25	0.84
5:M:287:U:C2	5:M:288:U:C6	2.65	0.84
6:N:450:U:H2'	6:N:451:U:C6	2.11	0.84
1:I:16:A:C5	1:I:17:A:N7	2.45	0.84
1:I:90:A:C2'	1:I:91:A:C5'	2.55	0.84
1:I:103:A:H2	1:I:104:A:C4	1.94	0.84
1:I:138:A:H2'	1:I:139:A:O4'	1.77	0.84
2:J:182:A:C6	2:J:183:A:C5	2.65	0.84
3:K:135:A:C2	3:K:136:A:C5	2.66	0.84
3:K:203:A:O2'	3:K:204:A:O5'	1.93	0.84
4:L:478:U:C2'	4:L:479:U:H5'	2.07	0.84
4:L:566:U:C2'	4:L:567:U:C5'	2.54	0.84
4:L:770:U:C4	4:L:771:U:C5	2.64	0.84
4:L:780:U:C2'	4:L:781:U:C5'	2.52	0.84
6:N:436:U:H2'	6:N:437:U:C6	2.12	0.84
1:I:162:A:C6	1:I:163:A:C5	2.64	0.84
1:I:376:A:N6	1:I:377:A:H61	1.71	0.84
2:J:136:A:H2'	2:J:137:A:H8	1.38	0.84
3:K:88:A:O2'	3:K:89:A:C5'	2.25	0.84
3:K:147:A:O2'	3:K:148:A:P	2.34	0.84
4:L:588:U:HO2'	4:L:589:U:H5'	1.05	0.84
4:L:722:U:H2'	4:L:723:U:H5	1.36	0.84
5:M:288:U:O2'	5:M:289:U:H5'	1.77	0.84
5:M:331:U:C2'	5:M:332:U:C5'	2.56	0.84
5:M:395:U:C2'	5:M:396:U:C5'	2.55	0.84
1:I:20:A:H2'	1:I:21:A:C8	2.13	0.84
1:I:231:A:N6	1:I:232:A:N6	2.26	0.84
1:I:375:A:N3	1:I:376:A:C8	2.45	0.84
2:J:92:A:H2'	2:J:93:A:C8	2.13	0.84
2:J:234:A:C2'	2:J:235:A:H5'	2.06	0.84
2:J:254:A:C2'	2:J:255:A:C5'	2.54	0.84
3:K:99:A:C2	3:K:100:A:C4	2.65	0.84
3:K:105:A:C4	3:K:106:A:C8	2.66	0.84
3:K:253:A:C3'	3:K:254:A:H5'	2.03	0.84
4:L:525:U:O2'	4:L:526:U:C5'	2.21	0.84
4:L:584:U:H2'	4:L:585:U:H6	1.42	0.84
4:L:728:U:C2	4:L:729:U:H5	1.86	0.84
4:L:761:U:C2	4:L:762:U:C5	2.65	0.84
4:L:775:U:H2'	4:L:776:U:C5'	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:480:U:O2	5:M:481:U:C6	2.30	0.84
5:M:502:U:O2	5:M:503:U:C6	2.29	0.84
5:M:544:U:HO2'	5:M:545:U:H5'	1.05	0.84
1:I:48:A:C2'	1:I:49:A:C5'	2.55	0.84
1:I:122:A:HO2'	1:I:123:A:H5'	1.04	0.84
1:I:376:A:C2	1:I:377:A:N7	2.45	0.84
2:J:42:A:O2'	2:J:43:A:C5'	2.25	0.84
2:J:84:A:C4	2:J:85:A:C8	2.66	0.84
2:J:144:A:C2	2:J:145:A:C8	2.65	0.84
2:J:176:A:C2	2:J:177:A:C5	2.66	0.84
2:J:209:A:C2'	2:J:210:A:H5'	2.08	0.84
3:K:164:A:C4	3:K:165:A:C8	2.65	0.84
4:L:436:U:H2'	4:L:437:U:O4'	1.77	0.84
4:L:622:U:H2'	4:L:623:U:C5'	2.07	0.84
4:L:692:U:H2'	4:L:693:U:H6	1.41	0.84
5:M:406:U:C2'	5:M:407:U:O4'	2.25	0.84
5:M:406:U:C2	5:M:407:U:C6	2.65	0.84
6:N:420:U:C2'	6:N:421:U:C5'	2.55	0.84
1:I:4:A:H2'	1:I:5:A:H8	1.32	0.84
1:I:96:A:N6	1:I:97:A:C6	2.44	0.84
1:I:227:A:C2'	1:I:228:A:H5'	2.08	0.84
1:I:261:A:O2'	1:I:262:A:H5'	1.77	0.84
2:J:183:A:HO2'	2:J:184:A:H5'	1.37	0.84
3:K:203:A:C2	3:K:204:A:C6	2.66	0.84
4:L:646:U:HO2'	4:L:647:U:H5'	1.39	0.84
4:L:734:U:C2'	4:L:735:U:H5'	2.07	0.84
4:L:774:U:C2	4:L:775:U:C5	2.66	0.84
5:M:310:U:C2'	5:M:311:U:H5'	2.07	0.84
6:N:279:U:H3'	6:N:280:U:OP2	1.77	0.84
6:N:473:U:H2'	6:N:474:U:O4'	1.77	0.84
1:I:79:A:C5	1:I:80:A:N7	2.45	0.84
1:I:303:A:C2	1:I:304:A:C8	2.65	0.84
2:J:113:A:O2'	2:J:114:A:H5'	1.78	0.84
4:L:682:U:C2'	4:L:683:U:H5'	2.07	0.84
5:M:402:U:O2'	5:M:403:U:H5'	1.78	0.84
5:M:405:U:H2'	5:M:406:U:C5'	2.06	0.84
5:M:435:U:C2	5:M:436:U:C6	2.66	0.84
5:M:435:U:HO2'	5:M:436:U:H5'	1.40	0.84
6:N:384:U:H2'	6:N:385:U:H6	1.41	0.84
6:N:489:U:O2	6:N:490:U:C6	2.31	0.84
1:I:136:A:C2	1:I:137:A:C4	2.66	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:202:A:HO2'	1:I:203:A:H5'	1.07	0.84
2:J:57:A:C2	2:J:58:A:C8	2.65	0.84
2:J:205:A:C4	2:J:206:A:C8	2.66	0.84
4:L:437:U:C2	4:L:438:U:C5	2.65	0.84
4:L:537:U:H2'	4:L:538:U:O4'	1.77	0.84
4:L:711:U:N3	4:L:712:U:C4	2.46	0.84
5:M:335:U:O5'	5:M:336:U:OP2	1.96	0.84
5:M:373:U:C2'	5:M:374:U:C5'	2.55	0.84
5:M:491:U:O2'	5:M:492:U:C5'	2.24	0.84
5:M:519:U:N3	5:M:520:U:C5	2.45	0.84
6:N:477:U:O2'	6:N:478:U:H5'	1.78	0.84
1:I:161:A:H2'	1:I:162:A:O4'	1.76	0.84
1:I:266:A:C2	1:I:267:A:C8	2.65	0.84
2:J:26:A:C2'	2:J:27:A:H5'	2.07	0.84
2:J:97:A:C2	2:J:98:A:C8	2.64	0.84
2:J:106:A:C2'	2:J:107:A:H5'	2.06	0.84
3:K:142:A:N3	3:K:143:A:C8	2.45	0.84
4:L:601:U:H2'	4:L:602:U:H6	1.41	0.84
5:M:318:U:H2'	5:M:319:U:C5'	2.06	0.84
5:M:510:U:C2'	5:M:511:U:H6	1.90	0.84
5:M:521:U:O2'	5:M:522:U:H5'	1.77	0.84
1:I:25:A:C2'	1:I:26:A:C5'	2.56	0.83
1:I:58:A:C6	1:I:59:A:N6	2.46	0.83
1:I:85:A:C2'	1:I:86:A:C5'	2.55	0.83
1:I:103:A:C2	1:I:104:A:C5	2.66	0.83
1:I:112:A:C2	1:I:113:A:C5	2.65	0.83
1:I:256:A:N6	1:I:257:A:N6	2.26	0.83
2:J:102:A:H2'	2:J:103:A:C8	2.13	0.83
4:L:551:U:C2	4:L:552:U:C5	2.66	0.83
4:L:597:U:C2'	4:L:598:U:H5'	2.07	0.83
4:L:722:U:N1	4:L:723:U:C5	2.44	0.83
4:L:724:U:H2'	4:L:725:U:C5'	2.07	0.83
5:M:319:U:O2'	5:M:320:U:C4'	2.26	0.83
5:M:432:U:C2'	5:M:433:U:H5'	2.08	0.83
6:N:339:U:H2'	6:N:340:U:C6	2.13	0.83
6:N:474:U:C2'	6:N:475:U:C5'	2.55	0.83
1:I:13:A:C2	1:I:14:A:C4	2.66	0.83
1:I:74:A:C2'	1:I:75:A:C4'	2.56	0.83
1:I:133:A:C2'	1:I:134:A:C4'	2.55	0.83
1:I:242:A:N3	1:I:243:A:C1'	2.41	0.83
3:K:42:A:O2'	3:K:43:A:C5'	2.24	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:497:U:H2'	4:L:498:U:O4'	1.77	0.83
4:L:518:U:H2'	4:L:519:U:C5'	2.05	0.83
4:L:603:U:C2'	4:L:604:U:H5'	2.08	0.83
5:M:335:U:C6	5:M:336:U:H5	1.95	0.83
1:I:74:A:C5	1:I:75:A:N7	2.47	0.83
1:I:131:A:C6	1:I:132:A:C6	2.67	0.83
1:I:140:A:N3	1:I:141:A:N7	2.26	0.83
1:I:250:A:H2'	1:I:251:A:H8	1.39	0.83
2:J:42:A:C2'	2:J:43:A:C5'	2.56	0.83
2:J:123:A:H2'	2:J:124:A:O4'	1.77	0.83
3:K:121:A:N6	3:K:122:A:N6	2.27	0.83
4:L:508:U:C2	4:L:509:U:C5	2.65	0.83
4:L:711:U:C2'	4:L:712:U:H6	1.92	0.83
4:L:754:U:C2'	4:L:755:U:H5'	1.92	0.83
4:L:779:U:O2'	4:L:780:U:C5'	2.19	0.83
4:L:782:U:O2'	4:L:783:U:H5'	1.77	0.83
5:M:502:U:O2'	5:M:503:U:C5'	2.26	0.83
5:M:527:U:O2'	5:M:528:U:H5'	1.79	0.83
6:N:310:U:H2'	6:N:311:U:C6	2.13	0.83
6:N:424:U:C2'	6:N:425:U:C6	2.56	0.83
1:I:261:A:C2'	1:I:262:A:O4'	2.27	0.83
1:I:388:A:H2'	1:I:389:A:O4'	1.77	0.83
2:J:28:A:C4	2:J:29:A:C8	2.67	0.83
2:J:204:A:H2'	2:J:205:A:O4'	1.78	0.83
3:K:203:A:C2	3:K:204:A:N7	2.41	0.83
4:L:438:U:N3	4:L:439:U:C4	2.46	0.83
1:I:71:A:H2'	1:I:72:A:O4'	1.78	0.83
1:I:138:A:HO2'	1:I:139:A:H5'	1.39	0.83
1:I:321:A:C2'	1:I:322:A:H5'	2.09	0.83
2:J:144:A:C2	5:M:410:U:O2	2.31	0.83
2:J:156:A:C2'	2:J:157:A:H5'	2.06	0.83
2:J:219:A:C2	2:J:220:A:C8	2.66	0.83
4:L:452:U:O2'	4:L:453:U:H5'	1.77	0.83
4:L:592:U:O2'	4:L:593:U:H5'	1.78	0.83
4:L:717:U:H2'	4:L:718:U:C6	2.13	0.83
4:L:811:U:O2'	4:L:812:U:H5'	1.73	0.83
6:N:374:U:H2'	6:N:375:U:H6	1.43	0.83
6:N:473:U:H2'	6:N:474:U:H6	1.39	0.83
1:I:13:A:O2'	1:I:14:A:H5'	1.76	0.83
1:I:62:A:C2	1:I:63:A:N9	2.47	0.83
1:I:67:A:C6	1:I:68:A:N6	2.45	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:97:A:C2'	1:I:98:A:H5'	2.08	0.83
1:I:119:A:H2'	1:I:120:A:C5'	2.01	0.83
2:J:28:A:N6	2:J:29:A:H62	1.73	0.83
2:J:94:A:HO2'	2:J:95:A:H5'	1.06	0.83
2:J:153:A:C2'	2:J:154:A:C5'	2.57	0.83
2:J:160:A:C2	2:J:161:A:C4	2.66	0.83
3:K:90:A:C2'	3:K:91:A:C5'	2.55	0.83
4:L:464:U:O2'	4:L:465:U:C5'	2.22	0.83
4:L:715:U:O2	4:L:716:U:N1	2.12	0.83
4:L:766:U:C2'	4:L:767:U:C6	2.59	0.83
6:N:406:U:C2'	6:N:407:U:C5'	2.57	0.83
6:N:441:U:C2	6:N:442:U:C6	2.65	0.83
1:I:67:A:C6	1:I:68:A:C5	2.66	0.83
1:I:358:A:O2'	1:I:359:A:H5'	1.78	0.83
2:J:75:A:C2'	2:J:76:A:H5'	2.08	0.83
2:J:142:A:N6	2:J:143:A:H62	1.75	0.83
3:K:102:A:N3	3:K:103:A:C8	2.46	0.83
3:K:125:A:C2'	3:K:126:A:C5'	2.56	0.83
3:K:213:A:H2'	3:K:214:A:C8	2.13	0.83
4:L:435:U:C2'	4:L:436:U:O4'	2.26	0.83
4:L:600:U:H2'	4:L:601:U:H6	1.44	0.83
4:L:715:U:C2	4:L:716:U:C6	2.67	0.83
6:N:280:U:HO2'	6:N:281:U:H5'	1.44	0.83
6:N:359:U:O2'	6:N:360:U:H5'	1.79	0.83
6:N:442:U:C2'	6:N:443:U:C5'	2.55	0.83
3:K:33:A:O2'	3:K:34:A:H5'	1.79	0.83
4:L:486:U:C2	4:L:487:U:C5	2.67	0.83
4:L:513:U:C2'	4:L:514:U:H5'	2.08	0.83
4:L:571:U:C2	4:L:572:U:C5	2.67	0.83
5:M:454:U:C4	5:M:455:U:C4	2.66	0.83
6:N:278:U:C2'	6:N:279:U:H5'	2.09	0.83
1:I:156:A:N6	1:I:157:A:N6	2.26	0.83
2:J:67:A:HO2'	2:J:68:A:H5'	1.43	0.83
2:J:221:A:C2'	2:J:222:A:C5'	2.56	0.83
3:K:80:A:O2'	3:K:81:A:H5'	1.79	0.83
3:K:142:A:C2	3:K:143:A:C5	2.66	0.83
4:L:777:U:C2	4:L:778:U:C6	2.67	0.83
6:N:321:U:H2'	6:N:322:U:C6	2.12	0.83
6:N:477:U:C2'	6:N:478:U:H5'	2.09	0.83
1:I:14:A:C2	1:I:15:A:C4	2.67	0.83
1:I:79:A:C6	1:I:80:A:C5	2.67	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:96:A:C4	1:I:97:A:C8	2.66	0.83
1:I:101:A:N1	1:I:102:A:C6	2.41	0.83
1:I:192:A:C2'	1:I:193:A:H5'	2.09	0.83
2:J:83:A:C2	2:J:84:A:C8	2.65	0.83
2:J:86:A:C2	2:J:87:A:N7	2.47	0.83
2:J:214:A:C2	2:J:215:A:C8	2.67	0.83
4:L:443:U:O2'	4:L:444:U:H5'	1.79	0.83
4:L:538:U:H2'	4:L:539:U:C6	2.13	0.83
4:L:668:U:C2	4:L:669:U:C5	2.67	0.83
4:L:692:U:C2'	4:L:693:U:H5'	2.08	0.83
4:L:811:U:C2'	4:L:812:U:H6	1.91	0.83
5:M:323:U:C2'	5:M:324:U:C4'	2.26	0.83
5:M:348:U:N3	5:M:349:U:C5	2.45	0.83
6:N:449:U:H2'	6:N:450:U:H6	1.44	0.83
1:I:86:A:C6	1:I:87:A:C6	2.67	0.82
1:I:237:A:O2'	1:I:238:A:C5'	2.25	0.82
1:I:250:A:N6	1:I:251:A:H62	1.74	0.82
1:I:317:A:C2'	1:I:318:A:H5'	2.08	0.82
2:J:70:A:C2	2:J:71:A:N9	2.47	0.82
3:K:5:A:O2'	3:K:6:A:H5'	1.77	0.82
3:K:49:A:C2	3:K:50:A:C5	2.67	0.82
3:K:144:A:H2'	3:K:145:A:C8	2.13	0.82
4:L:549:U:H2'	4:L:550:U:H6	1.44	0.82
4:L:577:U:N3	4:L:578:U:C5	2.47	0.82
4:L:660:U:O2'	4:L:661:U:C5'	2.27	0.82
4:L:743:U:C2'	4:L:744:U:C5'	2.57	0.82
5:M:304:U:C2	5:M:305:U:C5	2.67	0.82
5:M:447:U:C2	5:M:448:U:C5	2.67	0.82
6:N:281:U:O2'	6:N:282:U:C5'	2.19	0.82
1:I:270:A:H2'	1:I:271:A:C4'	2.09	0.82
1:I:306:A:C2	1:I:307:A:N9	2.47	0.82
2:J:228:A:H2'	2:J:229:A:C8	2.14	0.82
2:J:231:A:C6	2:J:232:A:N6	2.46	0.82
3:K:64:A:C2'	3:K:65:A:C5'	2.56	0.82
3:K:212:A:C6	3:K:213:A:C6	2.66	0.82
4:L:723:U:C5	4:L:724:U:H5	1.93	0.82
4:L:739:U:C2	4:L:740:U:C6	2.67	0.82
5:M:350:U:C2	5:M:351:U:C6	2.67	0.82
5:M:453:U:C2'	5:M:454:U:H6	1.91	0.82
6:N:310:U:H2'	6:N:311:U:H6	1.42	0.82
6:N:326:U:H2'	6:N:327:U:H6	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:443:U:N3	6:N:444:U:C5	2.46	0.82
1:I:82:A:C5	1:I:83:A:N7	2.47	0.82
1:I:306:A:H2'	1:I:307:A:O5'	1.79	0.82
1:I:389:A:H2'	1:I:390:A:H8	1.44	0.82
2:J:100:A:C2'	2:J:101:A:C5'	2.57	0.82
2:J:124:A:C2	2:J:125:A:C4	2.67	0.82
2:J:127:A:C2	2:J:128:A:N9	2.47	0.82
2:J:147:A:H2'	2:J:148:A:H8	1.42	0.82
2:J:182:A:C4	2:J:183:A:C8	2.67	0.82
3:K:135:A:C2	3:K:136:A:N7	2.47	0.82
4:L:684:U:N3	4:L:685:U:C4	2.46	0.82
4:L:721:U:H2'	4:L:722:U:H6	1.42	0.82
4:L:757:U:C4	4:L:758:U:C4	2.67	0.82
5:M:460:U:H2'	5:M:461:U:C6	2.12	0.82
5:M:510:U:O2'	5:M:511:U:C4'	2.27	0.82
6:N:497:U:H2'	6:N:498:U:C4'	2.09	0.82
1:I:86:A:C4	1:I:87:A:C8	2.68	0.82
1:I:161:A:C2'	1:I:162:A:C5'	2.58	0.82
1:I:273:A:H2'	1:I:274:A:C5'	2.08	0.82
1:I:296:A:H2'	1:I:297:A:O4'	1.78	0.82
1:I:364:A:HO2'	1:I:365:A:H5'	1.44	0.82
2:J:182:A:C4	2:J:183:A:N7	2.47	0.82
4:L:497:U:H2'	4:L:498:U:C4'	2.08	0.82
4:L:538:U:C2	4:L:539:U:C5	2.67	0.82
4:L:755:U:C2	4:L:756:U:C6	2.67	0.82
4:L:812:U:H2'	4:L:813:U:C5'	2.09	0.82
5:M:377:U:H2'	5:M:378:U:O4'	1.79	0.82
5:M:382:U:C2'	5:M:383:U:H5'	2.08	0.82
5:M:452:U:C2'	5:M:453:U:C5'	2.58	0.82
6:N:303:U:H2'	6:N:304:U:C6	2.13	0.82
1:I:141:A:H2'	1:I:142:A:C8	2.15	0.82
1:I:252:A:N3	1:I:253:A:C8	2.47	0.82
1:I:262:A:H2'	1:I:263:A:C5'	2.08	0.82
1:I:278:A:H2'	1:I:279:A:C8	2.13	0.82
1:I:334:A:O2'	1:I:335:A:H5'	1.79	0.82
2:J:190:A:N6	2:J:191:A:N6	2.28	0.82
4:L:586:U:C4	4:L:587:U:C4	2.67	0.82
4:L:778:U:C2	4:L:779:U:C6	2.67	0.82
5:M:333:U:HO2'	5:M:334:U:H5'	1.37	0.82
5:M:451:U:N3	5:M:452:U:C4	2.47	0.82
5:M:454:U:N3	5:M:455:U:C5	2.47	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:510:U:C2'	5:M:511:U:C5'	2.51	0.82
6:N:427:U:C2'	6:N:428:U:C5'	2.57	0.82
1:I:70:A:C2'	1:I:71:A:O4'	2.27	0.82
1:I:97:A:HO2'	1:I:98:A:H5'	1.40	0.82
2:J:224:A:O2'	2:J:225:A:H5'	1.78	0.82
3:K:152:A:N6	3:K:153:A:H61	1.75	0.82
4:L:705:U:C2	4:L:706:U:C6	2.66	0.82
4:L:803:U:C2	4:L:804:U:C5	2.67	0.82
5:M:323:U:H2'	5:M:324:U:H6	1.43	0.82
5:M:450:U:C2	5:M:451:U:C5	2.66	0.82
6:N:277:U:H2'	6:N:278:U:C5'	2.10	0.82
6:N:431:U:HO2'	6:N:432:U:H5'	1.00	0.82
1:I:31:A:C2	1:I:32:A:N7	2.47	0.82
1:I:404:A:H2'	1:I:405:A:C8	2.14	0.82
2:J:142:A:C4	2:J:143:A:N7	2.46	0.82
2:J:171:A:C2	2:J:172:A:C6	2.68	0.82
2:J:234:A:O2'	2:J:235:A:C5'	2.23	0.82
4:L:484:U:O2'	4:L:485:U:C5'	2.22	0.82
4:L:544:U:H2'	4:L:545:U:O4'	1.79	0.82
4:L:577:U:C2	4:L:578:U:C5	2.67	0.82
4:L:595:U:H2'	4:L:596:U:H6	1.42	0.82
4:L:746:U:C2'	4:L:747:U:O5'	2.25	0.82
6:N:380:U:HO2'	6:N:381:U:H5'	1.44	0.82
6:N:402:U:H2'	6:N:403:U:H6	1.44	0.82
1:I:130:A:N3	1:I:131:A:C8	2.48	0.82
1:I:131:A:H61	1:I:132:A:N6	1.72	0.82
1:I:265:A:N6	1:I:266:A:H62	1.78	0.82
2:J:44:A:C2'	2:J:45:A:H5'	2.09	0.82
2:J:66:A:HO2'	2:J:67:A:H5'	1.39	0.82
2:J:192:A:O2'	2:J:193:A:C5'	2.24	0.82
3:K:29:A:O2'	3:K:30:A:H5'	1.80	0.82
4:L:495:U:H2'	4:L:496:U:C6	2.14	0.82
4:L:583:U:N3	4:L:584:U:C5	2.46	0.82
4:L:750:U:H2'	4:L:751:U:C5	2.15	0.82
4:L:761:U:C4	4:L:762:U:O4	2.32	0.82
5:M:436:U:O2'	5:M:437:U:H5'	1.80	0.82
6:N:378:U:N3	6:N:379:U:C4	2.48	0.82
6:N:426:U:C2'	6:N:427:U:O4'	2.27	0.82
6:N:429:U:N3	6:N:430:U:C5	2.48	0.82
6:N:473:U:C4	6:N:474:U:C4	2.67	0.82
1:I:17:A:C2'	1:I:18:A:H5'	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:26:A:C2'	1:I:27:A:C5'	2.58	0.82
1:I:44:A:N3	1:I:45:A:C8	2.46	0.82
2:J:38:A:C2	2:J:39:A:C8	2.68	0.82
2:J:127:A:HO2'	2:J:128:A:H5'	1.42	0.82
2:J:144:A:N3	2:J:145:A:C8	2.48	0.82
3:K:92:A:C2'	3:K:93:A:C5'	2.56	0.82
3:K:100:A:C2'	3:K:101:A:O4'	2.26	0.82
3:K:195:A:N6	3:K:196:A:N6	2.27	0.82
4:L:722:U:C2'	4:L:723:U:H6	1.87	0.82
5:M:299:U:O2'	5:M:300:U:H5'	1.78	0.82
5:M:526:U:H2'	5:M:527:U:C5'	2.09	0.82
6:N:305:U:C2'	6:N:306:U:C6	2.63	0.82
1:I:358:A:O2'	1:I:359:A:C5'	2.26	0.82
2:J:99:A:H2'	2:J:100:A:O4'	1.80	0.82
2:J:170:A:O2'	2:J:171:A:C5'	2.27	0.82
2:J:202:A:C2	2:J:203:A:N9	2.48	0.82
3:K:84:A:O2'	3:K:85:A:H5'	1.79	0.82
4:L:693:U:C4	4:L:694:U:C4	2.68	0.82
5:M:432:U:HO2'	5:M:433:U:H5'	1.42	0.82
6:N:497:U:C2'	6:N:498:U:O4'	2.27	0.82
1:I:31:A:C2	1:I:32:A:C5	2.68	0.81
1:I:94:A:O2'	1:I:95:A:C5'	2.28	0.81
1:I:107:A:H2'	1:I:108:A:C8	2.15	0.81
1:I:240:A:O2'	1:I:241:A:O5'	1.97	0.81
1:I:258:A:C2	1:I:259:A:C8	2.67	0.81
1:I:362:A:N6	1:I:363:A:H62	1.76	0.81
2:J:83:A:C2	2:J:84:A:N7	2.48	0.81
3:K:105:A:C2'	3:K:106:A:O4'	2.28	0.81
3:K:234:A:N6	3:K:235:A:H62	1.73	0.81
4:L:487:U:H2'	4:L:488:U:O4'	1.80	0.81
4:L:496:U:H2'	4:L:497:U:C6	2.14	0.81
4:L:730:U:O2'	4:L:731:U:H5'	1.80	0.81
4:L:763:U:C2	4:L:764:U:C6	2.67	0.81
4:L:807:U:C2	4:L:808:U:C6	2.68	0.81
5:M:407:U:O4	5:M:408:U:O4	1.97	0.81
5:M:447:U:H2'	5:M:448:U:C6	2.15	0.81
5:M:469:U:O2	5:M:470:U:C5	2.28	0.81
6:N:471:U:O2'	6:N:472:U:C5'	2.27	0.81
1:I:49:A:O2'	1:I:50:A:C5'	2.24	0.81
1:I:120:A:C2	1:I:121:A:C8	2.68	0.81
1:I:127:A:C2'	1:I:128:A:C5'	2.58	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:179:A:C6	1:I:180:A:C6	2.68	0.81
1:I:252:A:C2	1:I:253:A:C4	2.67	0.81
2:J:101:A:C5	2:J:102:A:N7	2.47	0.81
2:J:129:A:H2'	2:J:130:A:C5'	2.09	0.81
2:J:137:A:C2	5:M:417:U:O2	2.32	0.81
2:J:165:A:H2'	2:J:166:A:C8	2.15	0.81
4:L:541:U:C2	4:L:542:U:C6	2.68	0.81
4:L:560:U:O2'	4:L:561:U:H5'	1.80	0.81
4:L:696:U:C2	4:L:697:U:C5	2.68	0.81
4:L:743:U:H2'	4:L:744:U:O5'	1.79	0.81
5:M:386:U:H2'	5:M:387:U:H6	1.45	0.81
6:N:312:U:H2'	6:N:313:U:C6	2.15	0.81
1:I:13:A:H2'	1:I:14:A:H8	1.42	0.81
1:I:18:A:C4	1:I:19:A:C8	2.68	0.81
1:I:20:A:H2'	1:I:21:A:H8	1.45	0.81
1:I:20:A:O2'	1:I:21:A:H5'	1.79	0.81
1:I:191:A:C2'	1:I:192:A:H5'	2.10	0.81
1:I:253:A:C6	1:I:254:A:N6	2.48	0.81
1:I:267:A:H2	1:I:268:A:C5	1.91	0.81
1:I:283:A:C4	1:I:284:A:N7	2.48	0.81
1:I:334:A:C2'	1:I:335:A:H5'	2.09	0.81
2:J:62:A:C2'	2:J:63:A:C5'	2.59	0.81
2:J:159:A:H2'	2:J:160:A:H8	1.44	0.81
2:J:166:A:H2'	2:J:167:A:C8	2.14	0.81
2:J:205:A:C2'	2:J:206:A:C4'	2.58	0.81
2:J:205:A:H2'	2:J:206:A:C4'	2.10	0.81
3:K:105:A:C2	3:K:106:A:C5	2.68	0.81
3:K:136:A:H2'	3:K:137:A:O5'	1.77	0.81
3:K:154:A:O2'	3:K:155:A:H5'	1.78	0.81
3:K:168:A:C2'	3:K:169:A:C4'	2.58	0.81
3:K:168:A:C3'	3:K:169:A:C5'	2.34	0.81
3:K:237:A:H2'	3:K:238:A:H8	1.41	0.81
4:L:547:U:H2'	4:L:548:U:H6	1.45	0.81
4:L:551:U:O2	4:L:552:U:C5	2.33	0.81
4:L:612:U:C2'	4:L:613:U:H5'	2.10	0.81
4:L:754:U:H2'	4:L:755:U:C6	2.15	0.81
4:L:754:U:C2	4:L:755:U:C6	2.68	0.81
4:L:805:U:H2'	4:L:806:U:H6	1.43	0.81
4:L:812:U:C2	4:L:813:U:C6	2.67	0.81
5:M:323:U:O2'	5:M:324:U:H4'	1.79	0.81
5:M:373:U:H2'	5:M:374:U:C5'	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:460:U:C2	5:M:461:U:C5	2.68	0.81
5:M:464:U:O2	5:M:465:U:C6	2.32	0.81
5:M:471:U:O2'	5:M:472:U:H5'	1.80	0.81
5:M:502:U:H2'	5:M:503:U:H6	1.45	0.81
6:N:388:U:O2'	6:N:389:U:H5'	1.79	0.81
6:N:446:U:C2	6:N:447:U:C5	2.69	0.81
6:N:448:U:C2'	6:N:449:U:H5'	2.10	0.81
6:N:525:U:H2'	6:N:526:U:H6	1.45	0.81
1:I:55:A:N3	1:I:56:A:C8	2.49	0.81
1:I:113:A:H2'	1:I:114:A:O4'	1.80	0.81
1:I:259:A:C2'	1:I:260:A:H5'	2.11	0.81
1:I:261:A:H2'	1:I:262:A:H8	1.40	0.81
2:J:42:A:H2'	2:J:43:A:H8	1.44	0.81
2:J:143:A:C2	2:J:144:A:C5	2.69	0.81
2:J:200:A:N3	2:J:201:A:C8	2.48	0.81
2:J:205:A:C2'	2:J:206:A:O4'	2.28	0.81
2:J:247:A:O2'	2:J:248:A:H5'	1.79	0.81
3:K:136:A:C2	3:K:137:A:N9	2.48	0.81
3:K:250:A:C2'	3:K:251:A:C5'	2.59	0.81
4:L:439:U:O2'	4:L:440:U:H5'	1.80	0.81
4:L:567:U:H2'	4:L:568:U:O5'	1.81	0.81
4:L:802:U:H2'	4:L:803:U:H6	1.46	0.81
5:M:323:U:C2	5:M:324:U:C6	2.68	0.81
5:M:348:U:C2'	5:M:349:U:H6	1.92	0.81
5:M:377:U:H2'	5:M:378:U:C6	2.15	0.81
6:N:329:U:H2'	6:N:330:U:H6	1.40	0.81
1:I:33:A:C2'	1:I:34:A:C5'	2.58	0.81
1:I:255:A:H2'	1:I:256:A:C5'	2.11	0.81
2:J:21:A:C2'	2:J:22:A:H5'	2.11	0.81
2:J:56:A:C2	2:J:57:A:C4	2.69	0.81
2:J:73:A:N3	2:J:74:A:C8	2.48	0.81
3:K:45:A:C2'	3:K:46:A:O4'	2.28	0.81
3:K:136:A:C2	3:K:137:A:C4	2.69	0.81
3:K:209:A:C6	3:K:210:A:N6	2.49	0.81
4:L:464:U:C2'	4:L:465:U:H5'	2.10	0.81
4:L:472:U:O2'	4:L:473:U:P	2.38	0.81
4:L:742:U:C2	4:L:743:U:H5	1.99	0.81
4:L:813:U:H2'	4:L:814:U:H6	1.43	0.81
1:I:13:A:C4	1:I:14:A:N7	2.48	0.81
1:I:22:A:O2'	1:I:23:A:C5'	2.28	0.81
1:I:56:A:C2	1:I:57:A:C8	2.69	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:62:A:HO2'	1:I:63:A:H5'	1.44	0.81
1:I:257:A:H2'	1:I:258:A:O5'	1.79	0.81
1:I:266:A:C2	1:I:267:A:C1'	2.63	0.81
2:J:83:A:O2'	2:J:84:A:O5'	1.97	0.81
2:J:165:A:N1	2:J:166:A:C6	2.49	0.81
3:K:105:A:O2'	3:K:106:A:O4'	1.98	0.81
4:L:544:U:C2	4:L:545:U:C6	2.68	0.81
4:L:602:U:O2'	4:L:603:U:H5'	1.80	0.81
4:L:605:U:O2'	4:L:606:U:H5'	1.80	0.81
4:L:740:U:C2	4:L:741:U:C6	2.68	0.81
4:L:783:U:O2'	4:L:784:U:H5'	1.80	0.81
5:M:466:U:C4	5:M:467:U:C5	2.69	0.81
5:M:519:U:C2	5:M:520:U:C5	2.69	0.81
6:N:440:U:C2	6:N:441:U:C6	2.68	0.81
1:I:181:A:C2	4:L:645:U:C2	2.68	0.81
1:I:239:A:C2'	1:I:240:A:C5'	2.57	0.81
1:I:248:A:C2	1:I:249:A:C8	2.69	0.81
3:K:110:A:C2	3:K:111:A:C4	2.68	0.81
3:K:168:A:O2'	3:K:169:A:C4'	2.28	0.81
4:L:557:U:C4	4:L:558:U:C4	2.68	0.81
4:L:594:U:H2'	4:L:595:U:H6	1.45	0.81
4:L:660:U:C2'	4:L:661:U:C5'	2.59	0.81
5:M:300:U:C2'	5:M:301:U:H5'	2.10	0.81
5:M:428:U:HO2'	5:M:429:U:H5'	1.00	0.81
5:M:458:U:H2'	5:M:459:U:O4'	1.80	0.81
1:I:43:A:N3	1:I:44:A:N7	2.26	0.81
1:I:67:A:N6	1:I:68:A:H62	1.78	0.81
1:I:78:A:O2'	1:I:79:A:O5'	1.98	0.81
1:I:181:A:C5	1:I:182:A:N7	2.48	0.81
1:I:191:A:O2'	1:I:192:A:H5'	1.81	0.81
1:I:228:A:N6	1:I:229:A:N6	2.27	0.81
1:I:230:A:H2'	1:I:231:A:O4'	1.81	0.81
1:I:250:A:H2'	1:I:251:A:O4'	1.81	0.81
2:J:27:A:O2'	2:J:28:A:C5'	2.28	0.81
2:J:166:A:O2'	2:J:167:A:H5'	1.81	0.81
2:J:215:A:C2	2:J:216:A:N7	2.49	0.81
3:K:110:A:O2'	3:K:111:A:C4'	2.29	0.81
3:K:166:A:C2	3:K:167:A:C4	2.68	0.81
3:K:204:A:C6	3:K:205:A:N6	2.49	0.81
4:L:425:U:C2'	4:L:426:U:H5'	2.11	0.81
4:L:646:U:O2'	4:L:647:U:C5'	2.27	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:673:U:H2'	4:L:674:U:C5'	2.11	0.81
4:L:750:U:O2	4:L:751:U:C6	2.34	0.81
4:L:764:U:O4	4:L:765:U:O4	1.99	0.81
4:L:810:U:O2'	4:L:811:U:C5'	2.29	0.81
5:M:417:U:O4	5:M:418:U:O4	1.99	0.81
5:M:454:U:O2'	5:M:455:U:H5'	1.79	0.81
5:M:456:U:C2	5:M:457:U:C5	2.68	0.81
6:N:302:U:H2'	6:N:303:U:H6	1.45	0.81
6:N:413:U:O2'	6:N:414:U:H5'	1.80	0.81
6:N:430:U:H2'	6:N:431:U:H6	1.44	0.81
1:I:13:A:C2	1:I:14:A:C5	2.69	0.81
1:I:81:A:C2'	1:I:82:A:H5'	2.11	0.81
1:I:187:A:N6	1:I:188:A:N6	2.29	0.81
1:I:274:A:HO2'	1:I:275:A:H5'	1.00	0.81
1:I:283:A:O2'	1:I:284:A:O5'	1.99	0.81
1:I:310:A:C2'	1:I:311:A:C5'	2.59	0.81
2:J:146:A:O2'	2:J:147:A:H5'	1.81	0.81
2:J:147:A:C2	2:J:148:A:C4	2.69	0.81
3:K:80:A:H2'	3:K:81:A:H8	1.46	0.81
3:K:101:A:N6	3:K:102:A:N6	2.29	0.81
3:K:124:A:C4	3:K:125:A:N7	2.48	0.81
3:K:164:A:H2'	3:K:165:A:O4'	1.81	0.81
4:L:498:U:H2'	4:L:499:U:C5'	2.09	0.81
4:L:597:U:HO2'	4:L:598:U:H5'	1.42	0.81
4:L:635:U:C2'	4:L:636:U:H5'	2.10	0.81
4:L:811:U:C4	4:L:812:U:C5	2.68	0.81
5:M:387:U:N3	5:M:388:U:C4	2.48	0.81
5:M:502:U:C2	5:M:503:U:C5	2.69	0.81
5:M:505:U:H2'	5:M:506:U:O5'	1.79	0.81
6:N:423:U:C2'	6:N:424:U:H5'	2.10	0.81
6:N:525:U:H2'	6:N:526:U:C6	2.15	0.81
6:N:526:U:C2'	6:N:527:U:C5'	2.59	0.81
1:I:17:A:C2'	1:I:18:A:C5'	2.59	0.81
1:I:189:A:C2'	1:I:190:A:H5'	2.10	0.81
1:I:230:A:H2'	1:I:231:A:C5'	2.10	0.81
1:I:236:A:C2	1:I:237:A:N9	2.49	0.81
1:I:248:A:HO2'	1:I:249:A:H5'	1.42	0.81
1:I:268:A:N3	1:I:269:A:C8	2.48	0.81
1:I:275:A:H2'	1:I:276:A:C8	2.15	0.81
1:I:353:A:H2'	1:I:354:A:O4'	1.79	0.81
2:J:156:A:O2'	2:J:157:A:C5'	2.26	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:225:A:C2	2:J:226:A:C4	2.68	0.81
5:M:409:U:O2	5:M:410:U:O4'	1.99	0.81
5:M:455:U:O2'	5:M:456:U:C5'	2.20	0.81
6:N:294:U:H2'	6:N:295:U:H6	1.45	0.81
1:I:86:A:H62	1:I:87:A:H62	1.26	0.80
1:I:133:A:C2	1:I:134:A:C4	2.69	0.80
1:I:243:A:C6	1:I:244:A:N6	2.48	0.80
1:I:276:A:H2'	1:I:277:A:H8	1.45	0.80
1:I:375:A:C2	1:I:376:A:C5	2.69	0.80
2:J:107:A:C2'	2:J:108:A:H5'	2.11	0.80
2:J:245:A:O2'	2:J:246:A:H5'	1.80	0.80
2:J:249:A:HO2'	2:J:250:A:H5'	1.44	0.80
3:K:42:A:C2'	3:K:43:A:H5'	2.10	0.80
3:K:136:A:H2'	3:K:137:A:C5'	2.09	0.80
3:K:150:A:C2	3:K:151:A:C8	2.69	0.80
3:K:225:A:H2'	3:K:226:A:H8	1.45	0.80
4:L:447:U:O3'	4:L:448:U:OP2	1.98	0.80
4:L:695:U:C2'	4:L:696:U:H5'	2.10	0.80
4:L:803:U:C2'	4:L:804:U:H6	1.91	0.80
5:M:417:U:N3	5:M:418:U:C4	2.49	0.80
5:M:491:U:HO2'	5:M:492:U:H5'	1.46	0.80
6:N:296:U:C4	6:N:297:U:O4	2.33	0.80
6:N:397:U:O2'	6:N:398:U:H5'	1.80	0.80
6:N:485:U:C3'	6:N:486:U:C5'	2.46	0.80
1:I:53:A:N3	1:I:54:A:C8	2.49	0.80
1:I:85:A:C2'	1:I:86:A:O5'	2.27	0.80
1:I:130:A:O2'	1:I:131:A:H5'	1.81	0.80
1:I:325:A:C6	1:I:326:A:N6	2.48	0.80
2:J:40:A:H2'	2:J:41:A:C8	2.16	0.80
2:J:225:A:C2	2:J:226:A:N9	2.49	0.80
2:J:248:A:C6	2:J:249:A:N6	2.48	0.80
3:K:46:A:C2'	3:K:47:A:C5'	2.59	0.80
3:K:166:A:N3	3:K:167:A:C8	2.49	0.80
4:L:436:U:O2'	4:L:437:U:C5'	2.27	0.80
4:L:584:U:C2	4:L:585:U:C6	2.68	0.80
4:L:733:U:O2'	4:L:734:U:C5'	2.26	0.80
4:L:739:U:C2'	4:L:740:U:C5'	2.58	0.80
4:L:760:U:H2'	4:L:761:U:H6	1.45	0.80
4:L:783:U:O2	4:L:784:U:C6	2.34	0.80
4:L:806:U:C2	4:L:807:U:C5	2.69	0.80
4:L:806:U:C2	4:L:807:U:C6	2.69	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:299:U:C2'	5:M:300:U:H5'	2.09	0.80
5:M:488:U:C4	5:M:489:U:C5	2.70	0.80
5:M:496:U:O2	5:M:497:U:C6	2.34	0.80
5:M:522:U:C2'	5:M:523:U:C5'	2.59	0.80
6:N:349:U:O2'	6:N:350:U:H5'	1.81	0.80
1:I:47:A:C2	1:I:48:A:N7	2.49	0.80
1:I:236:A:C2'	1:I:237:A:C5'	2.58	0.80
1:I:376:A:N1	1:I:377:A:C5	2.48	0.80
2:J:78:A:O2'	2:J:79:A:H5'	1.80	0.80
2:J:206:A:C4	2:J:207:A:C8	2.69	0.80
2:J:215:A:C2	2:J:216:A:C5	2.70	0.80
3:K:97:A:C4	3:K:98:A:C8	2.69	0.80
4:L:484:U:H2'	4:L:485:U:C5'	2.10	0.80
4:L:543:U:C4	4:L:544:U:O4	2.34	0.80
4:L:611:U:H2'	4:L:612:U:O4'	1.82	0.80
4:L:816:U:C2	4:L:817:U:C5	2.68	0.80
5:M:347:U:O2'	5:M:348:U:C4'	2.29	0.80
5:M:488:U:N3	5:M:489:U:C5	2.50	0.80
6:N:292:U:H2'	6:N:293:U:C6	2.16	0.80
6:N:338:U:C2	6:N:339:U:C5	2.69	0.80
6:N:401:U:C2'	6:N:402:U:H5'	2.11	0.80
6:N:481:U:HO2'	6:N:482:U:H5'	1.00	0.80
1:I:63:A:C6	1:I:64:A:N6	2.49	0.80
1:I:66:A:O2'	1:I:67:A:H5'	1.80	0.80
1:I:71:A:C2'	1:I:72:A:C5'	2.58	0.80
1:I:179:A:C6	1:I:180:A:N6	2.49	0.80
1:I:281:A:C6	1:I:282:A:N6	2.50	0.80
2:J:136:A:C2	2:J:137:A:C8	2.69	0.80
2:J:207:A:O2'	2:J:208:A:H5'	1.80	0.80
2:J:211:A:H2'	2:J:212:A:C5'	2.11	0.80
2:J:214:A:C2'	2:J:215:A:C5'	2.58	0.80
3:K:114:A:C2	3:K:115:A:C5	2.69	0.80
3:K:124:A:C2	3:K:125:A:C6	2.69	0.80
4:L:814:U:H2'	4:L:815:U:O4'	1.82	0.80
5:M:469:U:N3	5:M:470:U:C4	2.49	0.80
5:M:472:U:H2'	5:M:473:U:H6	1.47	0.80
5:M:526:U:C2	5:M:527:U:C6	2.69	0.80
6:N:380:U:H2'	6:N:381:U:C5'	2.10	0.80
6:N:415:U:H2'	6:N:416:U:H6	1.45	0.80
6:N:427:U:C2	6:N:428:U:C6	2.70	0.80
1:I:43:A:N1	1:I:44:A:C5	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:51:A:O2'	1:I:52:A:H5'	1.81	0.80
1:I:62:A:N3	1:I:63:A:C8	2.48	0.80
1:I:241:A:N6	1:I:242:A:N6	2.30	0.80
1:I:389:A:H2'	1:I:390:A:C8	2.15	0.80
2:J:30:A:C2'	2:J:31:A:H5'	2.12	0.80
2:J:118:A:C2	2:J:119:A:C5	2.69	0.80
2:J:132:A:H2'	2:J:133:A:O4'	1.81	0.80
2:J:217:A:N6	2:J:218:A:H62	1.77	0.80
3:K:49:A:C2	3:K:50:A:C4	2.70	0.80
3:K:107:A:C2'	3:K:108:A:C5'	2.59	0.80
4:L:438:U:C2	4:L:439:U:C5	2.69	0.80
4:L:581:U:C4	4:L:582:U:O4	2.34	0.80
5:M:348:U:C2'	5:M:349:U:C6	2.65	0.80
5:M:364:U:C2'	5:M:365:U:H5'	2.10	0.80
5:M:460:U:O2'	5:M:461:U:H5'	1.82	0.80
5:M:466:U:C2	5:M:467:U:C6	2.70	0.80
6:N:291:U:O2'	6:N:292:U:H5'	1.81	0.80
6:N:312:U:H2'	6:N:313:U:O4'	1.80	0.80
1:I:17:A:C2	1:I:18:A:C4	2.69	0.80
1:I:62:A:C2'	1:I:63:A:O5'	2.30	0.80
1:I:72:A:C2'	1:I:73:A:H5'	2.11	0.80
1:I:81:A:C2	1:I:82:A:C8	2.70	0.80
1:I:101:A:C4	1:I:102:A:N7	2.50	0.80
1:I:162:A:O5'	1:I:163:A:OP2	2.00	0.80
3:K:85:A:C2'	3:K:86:A:H5'	2.11	0.80
3:K:164:A:C6	3:K:165:A:C5	2.69	0.80
4:L:521:U:C2'	4:L:522:U:H5'	2.10	0.80
4:L:529:U:C2'	4:L:530:U:C5'	2.59	0.80
4:L:662:U:C2	4:L:663:U:C5	2.69	0.80
4:L:671:U:H2'	4:L:672:U:C6	2.16	0.80
4:L:688:U:H2'	4:L:689:U:O5'	1.82	0.80
4:L:780:U:H2'	4:L:781:U:C5'	2.11	0.80
6:N:322:U:C4	6:N:323:U:O4	2.35	0.80
1:I:65:A:C2	1:I:66:A:C8	2.70	0.80
1:I:407:A:O2'	1:I:408:A:H5'	1.82	0.80
2:J:37:A:C2'	2:J:38:A:C5'	2.60	0.80
2:J:265:A:O2'	2:J:266:A:O5'	1.99	0.80
4:L:551:U:O2'	4:L:552:U:P	2.39	0.80
4:L:567:U:C2'	4:L:568:U:C5'	2.59	0.80
4:L:658:U:C2'	4:L:659:U:H5'	2.10	0.80
4:L:734:U:C2'	4:L:735:U:C5'	2.59	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:776:U:H2'	4:L:777:U:O4'	1.82	0.80
4:L:781:U:N3	4:L:782:U:C5	2.49	0.80
5:M:370:U:H2'	5:M:371:U:C6	2.16	0.80
6:N:320:U:C2'	6:N:321:U:C5'	2.60	0.80
6:N:320:U:H2'	6:N:321:U:H6	1.46	0.80
6:N:442:U:C2	6:N:443:U:C6	2.70	0.80
6:N:455:U:H3'	6:N:456:U:P	2.21	0.80
6:N:474:U:H2'	6:N:475:U:O4'	1.81	0.80
6:N:485:U:O2'	6:N:486:U:O4'	1.97	0.80
1:I:251:A:H2'	1:I:252:A:H8	1.43	0.80
1:I:287:A:C3'	1:I:288:A:H5'	1.89	0.80
2:J:214:A:H2'	2:J:215:A:O5'	1.80	0.80
2:J:218:A:C2'	2:J:219:A:H5'	2.11	0.80
3:K:5:A:H2'	3:K:6:A:O4'	1.80	0.80
3:K:41:A:O2'	3:K:42:A:C5'	2.29	0.80
3:K:61:A:N6	3:K:62:A:N6	2.30	0.80
4:L:460:U:C2'	4:L:461:U:C5'	2.59	0.80
4:L:507:U:H2'	4:L:508:U:C5'	2.09	0.80
4:L:664:U:O2'	4:L:665:U:H5'	1.81	0.80
4:L:712:U:H2'	4:L:713:U:C6	2.14	0.80
4:L:763:U:C2'	4:L:764:U:H6	1.94	0.80
5:M:438:U:C2'	5:M:439:U:H5'	2.11	0.80
5:M:544:U:C2'	5:M:545:U:H5'	2.12	0.80
6:N:447:U:O2'	6:N:448:U:H5'	1.82	0.80
6:N:463:U:O2'	6:N:464:U:H5'	1.82	0.80
1:I:260:A:O2'	1:I:261:A:C5'	2.26	0.80
2:J:11:A:H2'	2:J:12:A:C5'	2.11	0.80
2:J:79:A:O2'	2:J:80:A:C5'	2.21	0.80
2:J:86:A:C2	2:J:87:A:C5	2.68	0.80
4:L:718:U:C2	4:L:719:U:C6	2.70	0.80
4:L:779:U:C2	4:L:780:U:C6	2.69	0.80
5:M:467:U:C2'	5:M:468:U:C5'	2.59	0.80
6:N:378:U:N3	6:N:379:U:O4	2.12	0.80
6:N:436:U:C2	6:N:437:U:C5	2.70	0.80
1:I:128:A:C4	1:I:129:A:C8	2.70	0.80
1:I:262:A:O2'	1:I:263:A:C5'	2.20	0.80
1:I:267:A:C2	1:I:268:A:C4	2.69	0.80
1:I:300:A:O2'	1:I:301:A:H5'	1.80	0.80
2:J:90:A:C2'	2:J:91:A:H5'	2.08	0.80
3:K:101:A:C4	3:K:102:A:C8	2.69	0.80
3:K:104:A:C4	3:K:105:A:C8	2.70	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:669:U:H2'	4:L:670:U:H6	1.46	0.80
5:M:444:U:O2	5:M:445:U:C6	2.35	0.80
5:M:524:U:H2'	5:M:525:U:H6	1.47	0.80
5:M:536:U:C2'	5:M:537:U:C5'	2.60	0.80
5:M:539:U:C2'	5:M:540:U:H5'	2.12	0.80
1:I:38:A:O2'	1:I:39:A:H5'	1.80	0.79
1:I:95:A:N1	1:I:96:A:C5	2.50	0.79
1:I:306:A:C2	1:I:307:A:C4	2.71	0.79
1:I:340:A:C2	1:I:341:A:N7	2.50	0.79
2:J:182:A:C6	2:J:183:A:N6	2.50	0.79
3:K:181:A:H2'	3:K:182:A:C8	2.17	0.79
4:L:636:U:O2'	4:L:637:U:H5'	1.81	0.79
4:L:644:U:O2	4:L:645:U:C6	2.35	0.79
4:L:649:U:H2'	4:L:650:U:C5'	2.11	0.79
4:L:719:U:H2'	4:L:720:U:C6	2.17	0.79
5:M:392:U:O2'	5:M:393:U:O4'	2.00	0.79
6:N:319:U:H2'	6:N:320:U:H6	1.47	0.79
6:N:326:U:C4	6:N:327:U:O4	2.35	0.79
1:I:43:A:C4	1:I:44:A:N7	2.51	0.79
1:I:403:A:H2'	1:I:404:A:C8	2.17	0.79
2:J:55:A:N6	2:J:56:A:N6	2.29	0.79
2:J:136:A:N3	2:J:137:A:C1'	2.45	0.79
2:J:153:A:HO2'	2:J:154:A:H5'	1.41	0.79
2:J:189:A:O2'	2:J:190:A:H5'	1.81	0.79
3:K:120:A:H2'	3:K:121:A:H5'	1.62	0.79
3:K:204:A:H2'	3:K:205:A:H8	1.44	0.79
4:L:438:U:O4	4:L:439:U:O4	1.99	0.79
4:L:711:U:C4	4:L:712:U:C4	2.70	0.79
4:L:713:U:H2'	4:L:714:U:C4'	2.09	0.79
4:L:764:U:N3	4:L:765:U:C4	2.51	0.79
4:L:770:U:C2	4:L:771:U:C6	2.70	0.79
5:M:323:U:H2'	5:M:324:U:C6	2.17	0.79
6:N:400:U:H2'	6:N:401:U:C5'	2.12	0.79
6:N:454:U:H2'	6:N:455:U:O4'	1.81	0.79
1:I:179:A:C6	1:I:180:A:N7	2.50	0.79
1:I:184:A:H61	1:I:185:A:N6	1.77	0.79
1:I:190:A:O2'	1:I:191:A:C5'	2.26	0.79
1:I:310:A:H2'	1:I:311:A:O4'	1.81	0.79
3:K:56:A:O2'	3:K:57:A:H5'	1.81	0.79
3:K:105:A:H2'	3:K:106:A:O4'	1.81	0.79
3:K:121:A:C5	3:K:122:A:N7	2.50	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:557:U:N3	4:L:558:U:C5	2.51	0.79
4:L:765:U:C2	4:L:766:U:C6	2.71	0.79
5:M:416:U:H2'	5:M:417:U:C6	2.16	0.79
1:I:113:A:C4	1:I:114:A:C8	2.70	0.79
1:I:226:A:N3	1:I:227:A:C8	2.50	0.79
1:I:261:A:C5	1:I:262:A:N7	2.50	0.79
1:I:283:A:C2	1:I:284:A:C8	2.70	0.79
1:I:376:A:N3	1:I:377:A:N7	2.30	0.79
1:I:388:A:H2'	1:I:389:A:H8	1.46	0.79
2:J:202:A:C2	2:J:203:A:C4	2.69	0.79
2:J:205:A:C2	2:J:206:A:N9	2.49	0.79
4:L:587:U:H2'	4:L:588:U:C6	2.16	0.79
4:L:635:U:H2'	4:L:636:U:H6	1.46	0.79
4:L:692:U:C2'	4:L:693:U:C5'	2.61	0.79
4:L:711:U:N3	4:L:712:U:C5	2.50	0.79
5:M:430:U:N3	5:M:431:U:C4	2.50	0.79
5:M:463:U:N3	5:M:464:U:C5	2.51	0.79
5:M:467:U:H2'	5:M:468:U:C5'	2.12	0.79
5:M:535:U:H2'	5:M:536:U:H6	1.46	0.79
6:N:313:U:H2'	6:N:314:U:C6	2.18	0.79
6:N:364:U:O2	6:N:365:U:C6	2.34	0.79
6:N:389:U:C2	6:N:390:U:C5	2.70	0.79
1:I:18:A:C2'	1:I:19:A:C5'	2.59	0.79
1:I:163:A:C2	1:I:164:A:N9	2.50	0.79
1:I:207:A:C2'	1:I:208:A:C5'	2.61	0.79
1:I:238:A:N6	1:I:239:A:H62	1.80	0.79
1:I:343:A:C2'	1:I:344:A:H5'	2.13	0.79
1:I:375:A:O2'	1:I:376:A:P	2.40	0.79
1:I:400:A:C6	1:I:401:A:N6	2.51	0.79
2:J:93:A:C2'	2:J:94:A:H5'	2.12	0.79
3:K:154:A:C6	3:K:155:A:C6	2.71	0.79
4:L:562:U:O2'	4:L:563:U:H5'	1.81	0.79
4:L:602:U:C2	4:L:603:U:C5	2.70	0.79
5:M:324:U:C2	5:M:325:U:C5	2.70	0.79
5:M:338:U:O2	5:M:339:U:C6	2.35	0.79
6:N:297:U:O2'	6:N:298:U:H5'	1.82	0.79
6:N:349:U:O2	6:N:350:U:C6	2.35	0.79
1:I:109:A:C2'	1:I:110:A:H8	1.90	0.79
1:I:130:A:C2	1:I:131:A:N7	2.51	0.79
2:J:66:A:O2'	2:J:67:A:C5'	2.26	0.79
3:K:142:A:O2'	3:K:143:A:C5'	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:510:U:H2'	4:L:511:U:O4'	1.83	0.79
4:L:546:U:H2'	4:L:547:U:O4'	1.82	0.79
4:L:559:U:N3	4:L:560:U:C5	2.51	0.79
4:L:589:U:N3	4:L:590:U:C5	2.51	0.79
4:L:688:U:C2'	4:L:689:U:C5'	2.59	0.79
4:L:757:U:C2'	4:L:758:U:C6	2.64	0.79
6:N:394:U:C2'	6:N:395:U:H5'	2.13	0.79
6:N:416:U:O2	6:N:417:U:H1'	1.82	0.79
1:I:4:A:N3	1:I:5:A:N7	2.30	0.79
1:I:67:A:H2'	1:I:68:A:H8	1.48	0.79
1:I:131:A:C4	1:I:132:A:N7	2.50	0.79
1:I:179:A:C4	1:I:180:A:N7	2.50	0.79
1:I:309:A:H2'	1:I:310:A:H8	1.47	0.79
1:I:324:A:N3	1:I:325:A:C8	2.50	0.79
3:K:45:A:C2'	3:K:46:A:H5'	2.13	0.79
3:K:124:A:H2'	3:K:125:A:H8	1.48	0.79
3:K:156:A:H2'	3:K:157:A:C5'	2.12	0.79
4:L:528:U:O2'	4:L:529:U:H5'	1.81	0.79
4:L:694:U:N3	4:L:695:U:C5	2.51	0.79
4:L:746:U:N3	4:L:747:U:C5	2.50	0.79
4:L:763:U:C2'	4:L:764:U:C5'	2.61	0.79
1:I:90:A:O2'	1:I:91:A:C5'	2.29	0.79
1:I:322:A:C4	1:I:323:A:C8	2.71	0.79
2:J:5:A:N6	2:J:6:A:N6	2.31	0.79
3:K:199:A:H2'	3:K:200:A:C8	2.18	0.79
4:L:582:U:C2	4:L:583:U:C6	2.71	0.79
4:L:677:U:C3'	4:L:678:U:P	2.71	0.79
4:L:776:U:O2'	4:L:777:U:C5'	2.27	0.79
5:M:335:U:C6	5:M:336:U:C5	2.70	0.79
5:M:399:U:O2'	5:M:400:U:C5'	2.26	0.79
5:M:469:U:O2'	5:M:470:U:P	2.41	0.79
5:M:498:U:H2'	5:M:499:U:C5	2.17	0.79
1:I:16:A:N6	1:I:17:A:H62	1.80	0.79
1:I:22:A:C2'	1:I:23:A:H5'	2.13	0.79
1:I:79:A:N1	1:I:80:A:C5	2.51	0.79
1:I:164:A:O2'	1:I:165:A:O5'	2.00	0.79
2:J:124:A:HO2'	2:J:125:A:H5'	1.46	0.79
3:K:206:A:H2'	3:K:207:A:C8	2.17	0.79
4:L:723:U:N1	4:L:724:U:C6	2.50	0.79
4:L:734:U:H2'	4:L:735:U:C6	2.17	0.79
4:L:764:U:C4	4:L:765:U:O4	2.35	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:520:U:C2'	5:M:521:U:C5'	2.58	0.79
6:N:437:U:H2'	6:N:438:U:H6	1.46	0.79
6:N:529:U:O2'	6:N:530:U:H5'	1.82	0.79
1:I:112:A:C2	1:I:113:A:C4	2.71	0.79
1:I:385:A:O2'	1:I:386:A:H5'	1.83	0.79
1:I:387:A:O2'	1:I:388:A:H5'	1.82	0.79
2:J:92:A:H2'	2:J:93:A:H8	1.45	0.79
2:J:216:A:C2	2:J:217:A:C6	2.71	0.79
2:J:239:A:C3'	2:J:240:A:P	2.71	0.79
3:K:152:A:H61	3:K:153:A:N6	1.80	0.79
3:K:201:A:H2'	3:K:202:A:H8	1.46	0.79
4:L:421:U:C2'	4:L:422:U:H5'	2.13	0.79
4:L:509:U:C2'	4:L:510:U:H5'	2.13	0.79
4:L:636:U:H2'	4:L:637:U:H6	1.48	0.79
4:L:762:U:O2	4:L:763:U:C6	2.36	0.79
4:L:768:U:H2'	4:L:769:U:O5'	1.83	0.79
5:M:498:U:H2'	5:M:499:U:H6	1.46	0.79
6:N:346:U:C3'	6:N:347:U:P	2.70	0.79
1:I:282:A:O2'	1:I:283:A:P	2.40	0.78
1:I:333:A:N3	1:I:334:A:N9	2.30	0.78
2:J:172:A:H2'	2:J:173:A:C8	2.17	0.78
2:J:222:A:C4	2:J:223:A:C8	2.71	0.78
3:K:46:A:C2'	3:K:47:A:O4'	2.30	0.78
3:K:96:A:C4	3:K:97:A:C8	2.71	0.78
4:L:498:U:H2'	4:L:499:U:O4'	1.82	0.78
4:L:568:U:C2	4:L:569:U:C5	2.71	0.78
4:L:580:U:O2'	4:L:581:U:C5'	2.31	0.78
4:L:589:U:C2	4:L:590:U:C5	2.71	0.78
4:L:739:U:C2'	4:L:740:U:H5'	2.13	0.78
4:L:752:U:C2	4:L:753:U:C5	2.72	0.78
4:L:759:U:C2	4:L:760:U:C6	2.71	0.78
4:L:776:U:C2	4:L:777:U:C6	2.71	0.78
5:M:351:U:C2	5:M:352:U:C5	2.71	0.78
5:M:357:U:O2'	5:M:358:U:H5'	1.82	0.78
5:M:489:U:N3	5:M:490:U:C5	2.52	0.78
6:N:425:U:H2'	6:N:426:U:C1'	2.13	0.78
6:N:425:U:O2'	6:N:426:U:H5'	1.80	0.78
6:N:496:U:C2'	6:N:497:U:C5'	2.60	0.78
6:N:499:U:C4	6:N:500:U:O4	2.36	0.78
1:I:49:A:N3	1:I:50:A:C8	2.51	0.78
1:I:358:A:O2'	1:I:359:A:O5'	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:43:A:N6	3:K:44:A:H62	1.80	0.78
3:K:63:A:O2'	3:K:64:A:C5'	2.30	0.78
4:L:435:U:H2'	4:L:436:U:H6	1.46	0.78
4:L:487:U:O2'	4:L:488:U:C4'	2.31	0.78
4:L:598:U:C2	4:L:599:U:C6	2.71	0.78
4:L:637:U:N3	4:L:638:U:C4	2.51	0.78
4:L:695:U:C2'	4:L:696:U:C5'	2.62	0.78
4:L:706:U:C4	4:L:707:U:H5	1.99	0.78
5:M:509:U:H2'	5:M:510:U:H6	1.48	0.78
6:N:395:U:O2'	6:N:396:U:H5'	1.83	0.78
6:N:450:U:O2'	6:N:451:U:C5'	2.30	0.78
1:I:236:A:C2	1:I:237:A:C4	2.70	0.78
1:I:237:A:H2'	1:I:238:A:H8	1.47	0.78
1:I:287:A:HO2'	1:I:288:A:C4'	1.96	0.78
1:I:333:A:C2	1:I:334:A:H1'	2.18	0.78
2:J:90:A:C2'	2:J:91:A:C5'	2.62	0.78
2:J:248:A:C6	2:J:249:A:C6	2.71	0.78
3:K:155:A:C6	3:K:156:A:C6	2.71	0.78
4:L:611:U:O2'	4:L:612:U:H5'	1.84	0.78
4:L:650:U:O2'	4:L:651:U:C5'	2.30	0.78
5:M:371:U:H2'	5:M:372:U:C5'	2.11	0.78
5:M:454:U:C2	5:M:455:U:C5	2.72	0.78
5:M:457:U:C2	5:M:458:U:C6	2.71	0.78
5:M:458:U:C2	5:M:459:U:C6	2.71	0.78
1:I:15:A:H2'	1:I:16:A:C5'	2.11	0.78
1:I:47:A:N3	1:I:48:A:C8	2.51	0.78
1:I:140:A:C4	1:I:141:A:N7	2.52	0.78
1:I:282:A:N3	1:I:283:A:C8	2.51	0.78
1:I:306:A:N3	1:I:307:A:C8	2.52	0.78
1:I:324:A:O2'	1:I:325:A:C5'	2.27	0.78
2:J:26:A:C2'	2:J:27:A:C5'	2.60	0.78
3:K:46:A:O2'	3:K:47:A:C4'	2.32	0.78
3:K:62:A:H61	3:K:63:A:N6	1.79	0.78
3:K:89:A:N1	3:K:90:A:C5	2.52	0.78
3:K:154:A:H2'	3:K:155:A:C8	2.18	0.78
4:L:500:U:HO2'	4:L:501:U:H5'	1.47	0.78
4:L:553:U:C2	4:L:554:U:C6	2.72	0.78
4:L:642:U:C2'	4:L:643:U:C5'	2.61	0.78
4:L:649:U:O2'	4:L:650:U:C5'	2.26	0.78
4:L:769:U:C2	4:L:770:U:C6	2.72	0.78
5:M:417:U:N3	5:M:418:U:C5	2.51	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:311:U:H2'	6:N:312:U:C6	2.18	0.78
6:N:316:U:C2'	6:N:317:U:O4'	2.32	0.78
1:I:104:A:C6	1:I:105:A:N6	2.51	0.78
1:I:152:A:H2'	1:I:153:A:C8	2.18	0.78
1:I:263:A:C2	1:I:264:A:C8	2.72	0.78
1:I:299:A:C2'	1:I:300:A:C5'	2.61	0.78
2:J:55:A:C4	2:J:56:A:C8	2.71	0.78
2:J:219:A:N3	2:J:220:A:C8	2.52	0.78
2:J:228:A:H2'	2:J:229:A:H8	1.48	0.78
3:K:80:A:H2'	3:K:81:A:C8	2.17	0.78
4:L:472:U:O2	4:L:473:U:C5	2.35	0.78
4:L:544:U:C2'	4:L:545:U:H5'	2.13	0.78
4:L:555:U:H2'	4:L:556:U:H6	1.48	0.78
4:L:583:U:H2'	4:L:584:U:C6	2.18	0.78
4:L:671:U:O2'	4:L:672:U:H5'	1.83	0.78
4:L:750:U:H2'	4:L:751:U:H6	1.47	0.78
4:L:760:U:H2'	4:L:761:U:O4'	1.84	0.78
6:N:327:U:H2'	6:N:328:U:C6	2.19	0.78
1:I:13:A:O2'	1:I:14:A:O4'	2.01	0.78
1:I:66:A:C6	1:I:67:A:N7	2.51	0.78
1:I:75:A:C2	1:I:76:A:C4	2.72	0.78
1:I:166:A:C2'	1:I:167:A:H5'	2.14	0.78
1:I:279:A:C2	1:I:280:A:C4	2.71	0.78
2:J:61:A:C2	2:J:62:A:C8	2.72	0.78
2:J:184:A:N3	2:J:185:A:C8	2.52	0.78
2:J:216:A:N3	2:J:217:A:C8	2.52	0.78
3:K:104:A:N3	3:K:105:A:C8	2.52	0.78
3:K:192:A:C2'	3:K:193:A:C8	2.65	0.78
4:L:634:U:C2	4:L:635:U:C6	2.71	0.78
4:L:727:U:O2'	4:L:728:U:H5'	1.82	0.78
4:L:763:U:C2	4:L:764:U:C5	2.71	0.78
5:M:338:U:O2'	5:M:339:U:P	2.40	0.78
6:N:305:U:C2'	6:N:306:U:H6	1.97	0.78
1:I:14:A:O2'	1:I:15:A:O4'	2.01	0.78
1:I:21:A:C2'	1:I:22:A:O4'	2.32	0.78
1:I:143:A:C2	1:I:144:A:C6	2.71	0.78
1:I:179:A:H62	1:I:180:A:H62	1.32	0.78
1:I:285:A:C2'	1:I:286:A:C5'	2.60	0.78
1:I:359:A:N6	1:I:360:A:H62	1.79	0.78
2:J:95:A:O2'	2:J:96:A:H5'	1.83	0.78
2:J:236:A:C2	2:J:237:A:C8	2.70	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:234:A:C6	3:K:235:A:N6	2.51	0.78
3:K:260:A:HO3'	3:K:261:A:P	2.07	0.78
4:L:517:U:C2	4:L:518:U:C6	2.72	0.78
4:L:588:U:C2	4:L:589:U:C6	2.71	0.78
4:L:685:U:C2	4:L:686:U:C5	2.72	0.78
4:L:702:U:H2'	4:L:703:U:H6	1.49	0.78
5:M:504:U:N3	5:M:505:U:C5	2.52	0.78
6:N:327:U:O2'	6:N:328:U:C5'	2.30	0.78
6:N:383:U:H2'	6:N:384:U:H6	1.49	0.78
6:N:399:U:C4	6:N:400:U:O4	2.37	0.78
6:N:526:U:C2'	6:N:527:U:O4'	2.31	0.78
1:I:66:A:N1	1:I:67:A:C5	2.51	0.78
1:I:100:A:C2'	1:I:101:A:H5'	2.14	0.78
1:I:132:A:C2'	1:I:133:A:O4'	2.32	0.78
1:I:135:A:C2	1:I:136:A:C8	2.72	0.78
1:I:257:A:H2'	1:I:258:A:C5'	2.13	0.78
1:I:267:A:C2	1:I:268:A:C8	2.58	0.78
1:I:362:A:C6	1:I:363:A:N6	2.52	0.78
2:J:96:A:O2'	2:J:97:A:H5'	1.83	0.78
2:J:191:A:C2'	2:J:192:A:C5'	2.61	0.78
3:K:211:A:H2'	3:K:212:A:H8	1.44	0.78
4:L:538:U:H2'	4:L:539:U:H6	1.48	0.78
4:L:552:U:N3	4:L:553:U:C4	2.52	0.78
4:L:634:U:H2'	4:L:635:U:C5'	2.14	0.78
4:L:638:U:H2'	4:L:639:U:C4'	2.13	0.78
4:L:724:U:C3'	4:L:725:U:C5'	2.42	0.78
5:M:299:U:H2'	5:M:300:U:O4'	1.83	0.78
5:M:484:U:C2	5:M:485:U:C5	2.71	0.78
1:I:243:A:C6	1:I:244:A:C6	2.71	0.78
1:I:258:A:H2'	1:I:259:A:C5'	2.12	0.78
1:I:326:A:C2'	1:I:327:A:H5'	2.14	0.78
2:J:28:A:C4	2:J:29:A:N7	2.52	0.78
2:J:28:A:C6	2:J:29:A:C5	2.72	0.78
2:J:92:A:O2'	2:J:93:A:O5'	2.01	0.78
2:J:127:A:H2'	2:J:128:A:C5'	2.14	0.78
2:J:160:A:O2'	2:J:161:A:O4'	2.00	0.78
2:J:171:A:N3	2:J:172:A:C8	2.52	0.78
2:J:171:A:O2'	2:J:172:A:P	2.41	0.78
2:J:218:A:C2	2:J:219:A:C4	2.71	0.78
2:J:225:A:N1	2:J:226:A:C5	2.52	0.78
2:J:237:A:C2	2:J:238:A:C8	2.72	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:152:A:C6	3:K:153:A:C6	2.71	0.78
3:K:153:A:C2	3:K:154:A:C5	2.71	0.78
4:L:549:U:H2'	4:L:550:U:C6	2.18	0.78
4:L:660:U:H2'	4:L:661:U:H6	1.49	0.78
4:L:661:U:O2	4:L:662:U:C6	2.36	0.78
4:L:716:U:C2	4:L:717:U:C5	2.72	0.78
4:L:747:U:N3	4:L:748:U:C5	2.52	0.78
4:L:813:U:H2'	4:L:814:U:C6	2.18	0.78
5:M:410:U:O4	5:M:411:U:O4	2.00	0.78
5:M:416:U:C2	5:M:417:U:C6	2.71	0.78
5:M:460:U:N3	5:M:461:U:C4	2.51	0.78
6:N:338:U:C2'	6:N:339:U:C6	2.61	0.78
6:N:440:U:H2'	6:N:441:U:O4'	1.84	0.78
6:N:501:U:C2'	6:N:502:U:H5'	2.13	0.78
1:I:52:A:C2'	1:I:53:A:H5'	2.14	0.78
1:I:54:A:N3	1:I:55:A:N7	2.31	0.78
1:I:92:A:N6	1:I:93:A:N6	2.32	0.78
1:I:227:A:C2'	1:I:228:A:C5'	2.62	0.78
1:I:266:A:N3	1:I:267:A:C1'	2.47	0.78
2:J:11:A:C2'	2:J:12:A:O4'	2.32	0.78
2:J:101:A:C4	2:J:102:A:N7	2.52	0.78
2:J:165:A:N3	2:J:166:A:N7	2.31	0.78
3:K:156:A:C2'	3:K:157:A:C4'	2.62	0.78
3:K:219:A:H2'	3:K:220:A:H8	1.49	0.78
4:L:451:U:C3'	4:L:452:U:P	2.72	0.78
4:L:555:U:C2	4:L:556:U:C5	2.72	0.78
4:L:598:U:C2	4:L:599:U:C5	2.71	0.78
4:L:598:U:N3	4:L:599:U:C5	2.52	0.78
4:L:603:U:O2'	4:L:604:U:C5'	2.27	0.78
4:L:644:U:C2	4:L:645:U:C6	2.72	0.78
4:L:713:U:C2	4:L:714:U:C6	2.72	0.78
4:L:778:U:H2'	4:L:779:U:H6	1.49	0.78
5:M:316:U:C2	5:M:317:U:C5	2.71	0.78
5:M:322:U:O2'	5:M:323:U:C4'	2.32	0.78
5:M:444:U:O2	5:M:445:U:C5	2.35	0.78
5:M:504:U:C2	5:M:505:U:C5	2.71	0.78
6:N:406:U:C4	6:N:407:U:C5	2.72	0.78
6:N:417:U:H2'	6:N:418:U:C6	2.19	0.78
1:I:104:A:N6	1:I:105:A:N6	2.32	0.77
1:I:140:A:N1	1:I:141:A:N6	2.33	0.77
1:I:267:A:N1	1:I:268:A:C5	2.51	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:8:A:O2'	2:J:9:A:C4'	2.32	0.77
2:J:127:A:C2	2:J:128:A:C8	2.71	0.77
2:J:218:A:C2	2:J:219:A:C5	2.73	0.77
4:L:488:U:H2'	4:L:489:U:O4'	1.85	0.77
4:L:537:U:H2'	4:L:538:U:H6	1.49	0.77
4:L:802:U:C2'	4:L:803:U:H5'	2.13	0.77
4:L:806:U:H2'	4:L:807:U:C6	2.19	0.77
5:M:530:U:O2'	5:M:531:U:C5'	2.26	0.77
5:M:548:U:O3'	5:M:549:U:OP2	1.97	0.77
1:I:70:A:C4	1:I:71:A:C8	2.72	0.77
1:I:81:A:C2	1:I:82:A:C4	2.73	0.77
1:I:113:A:C4	1:I:114:A:N7	2.52	0.77
1:I:213:A:H2'	1:I:214:A:C8	2.20	0.77
1:I:284:A:C2	1:I:285:A:C4	2.72	0.77
1:I:358:A:C2	1:I:359:A:C4	2.73	0.77
3:K:217:A:N6	3:K:218:A:N6	2.33	0.77
3:K:219:A:H2'	3:K:220:A:C8	2.19	0.77
4:L:537:U:C2'	4:L:538:U:O4'	2.32	0.77
4:L:575:U:C2	4:L:576:U:C6	2.72	0.77
4:L:704:U:O2'	4:L:705:U:C5'	2.24	0.77
4:L:704:U:C2'	4:L:705:U:C5'	2.59	0.77
4:L:768:U:C2'	4:L:769:U:O5'	2.31	0.77
4:L:802:U:O2'	4:L:803:U:C5'	2.30	0.77
4:L:808:U:C2	4:L:809:U:C5	2.71	0.77
5:M:299:U:C2	5:M:300:U:C6	2.72	0.77
5:M:453:U:C2'	5:M:454:U:C6	2.66	0.77
6:N:274:U:C2'	6:N:275:U:H5'	2.14	0.77
1:I:68:A:C5	1:I:69:A:N7	2.52	0.77
1:I:97:A:C2'	1:I:98:A:C5'	2.62	0.77
1:I:130:A:C2	1:I:131:A:C5	2.72	0.77
1:I:143:A:N3	1:I:144:A:N7	2.33	0.77
1:I:152:A:N6	1:I:153:A:N6	2.32	0.77
1:I:239:A:C2	1:I:240:A:C4	2.73	0.77
2:J:42:A:C2'	2:J:43:A:H5'	2.14	0.77
2:J:58:A:HO2'	2:J:59:A:H5'	1.49	0.77
3:K:105:A:N1	3:K:106:A:C6	2.53	0.77
3:K:192:A:C2'	3:K:193:A:H8	1.98	0.77
4:L:506:U:C2'	4:L:507:U:H5'	2.14	0.77
4:L:647:U:H2'	4:L:648:U:O4'	1.83	0.77
4:L:715:U:O2'	4:L:716:U:P	2.42	0.77
4:L:728:U:H2'	4:L:729:U:C5	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:346:U:H2'	5:M:347:U:H6	1.48	0.77
5:M:427:U:C2	5:M:428:U:C5	2.72	0.77
6:N:306:U:H2'	6:N:307:U:C6	2.19	0.77
6:N:441:U:C2	6:N:442:U:C5	2.73	0.77
6:N:489:U:O2'	6:N:490:U:C5'	2.32	0.77
1:I:10:A:N3	1:I:11:A:C8	2.52	0.77
1:I:66:A:C6	1:I:67:A:C5	2.73	0.77
1:I:91:A:C2	1:I:92:A:N9	2.53	0.77
1:I:140:A:N1	1:I:141:A:C6	2.53	0.77
1:I:240:A:H2'	1:I:241:A:H8	1.48	0.77
2:J:43:A:H2'	2:J:44:A:C4'	2.13	0.77
2:J:257:A:O2'	2:J:258:A:H5'	1.84	0.77
4:L:476:U:O2'	4:L:477:U:H5'	1.84	0.77
4:L:558:U:C2	4:L:559:U:C6	2.72	0.77
4:L:594:U:C2'	4:L:595:U:H5'	2.13	0.77
4:L:597:U:C2'	4:L:598:U:C5'	2.61	0.77
4:L:715:U:C2'	4:L:716:U:C6	2.59	0.77
5:M:288:U:H2'	5:M:289:U:C6	2.20	0.77
5:M:292:U:O2'	5:M:293:U:H5'	1.84	0.77
6:N:280:U:C2'	6:N:281:U:C5'	2.62	0.77
6:N:323:U:H2'	6:N:324:U:H6	1.49	0.77
6:N:332:U:H2'	6:N:333:U:H6	1.44	0.77
6:N:379:U:C2	6:N:380:U:C6	2.73	0.77
1:I:107:A:H2'	1:I:108:A:H8	1.49	0.77
1:I:132:A:O2'	1:I:133:A:C4'	2.32	0.77
1:I:250:A:C6	1:I:251:A:C5	2.72	0.77
1:I:278:A:C2'	1:I:279:A:C5'	2.61	0.77
2:J:176:A:C2	2:J:177:A:C4	2.73	0.77
2:J:265:A:O2'	2:J:266:A:P	2.39	0.77
4:L:509:U:H2'	4:L:510:U:H6	1.49	0.77
4:L:536:U:C3'	4:L:537:U:P	2.73	0.77
4:L:588:U:C2'	4:L:589:U:H5'	2.15	0.77
4:L:593:U:H2'	4:L:594:U:H6	1.48	0.77
4:L:734:U:O2'	4:L:735:U:C5'	2.32	0.77
4:L:760:U:C2	4:L:761:U:C6	2.73	0.77
5:M:335:U:C2	5:M:336:U:C6	2.71	0.77
5:M:365:U:C2'	5:M:366:U:H5'	2.13	0.77
5:M:489:U:H2'	5:M:490:U:C5'	2.12	0.77
5:M:524:U:N3	5:M:525:U:C4	2.53	0.77
6:N:476:U:O2'	6:N:477:U:H5'	1.84	0.77
1:I:18:A:C2'	1:I:19:A:H5'	2.10	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:132:A:C2	1:I:133:A:C4	2.72	0.77
1:I:253:A:H2'	1:I:254:A:C8	2.19	0.77
1:I:262:A:C4	1:I:263:A:C8	2.72	0.77
2:J:70:A:C2	2:J:71:A:C4	2.72	0.77
2:J:171:A:N1	2:J:172:A:C6	2.53	0.77
2:J:218:A:N3	2:J:219:A:C8	2.53	0.77
3:K:96:A:O2'	3:K:97:A:C5'	2.32	0.77
3:K:154:A:C4	3:K:155:A:N7	2.50	0.77
4:L:423:U:H2'	4:L:424:U:C6	2.19	0.77
4:L:578:U:O2'	4:L:579:U:C5'	2.28	0.77
4:L:681:U:C2'	4:L:682:U:C6	2.68	0.77
5:M:290:U:C2'	5:M:291:U:C5'	2.63	0.77
6:N:418:U:C2	6:N:419:U:C5	2.73	0.77
1:I:41:A:H2'	1:I:42:A:H8	1.50	0.77
1:I:183:A:H2	1:I:184:A:C4	2.03	0.77
1:I:265:A:C5	1:I:266:A:N7	2.53	0.77
1:I:311:A:C2'	1:I:312:A:H5'	2.14	0.77
1:I:320:A:C2'	1:I:321:A:H5'	2.15	0.77
1:I:322:A:C6	1:I:323:A:C5	2.72	0.77
1:I:347:A:C2'	1:I:348:A:H5'	2.14	0.77
2:J:55:A:H2'	2:J:56:A:O4'	1.84	0.77
2:J:165:A:N1	2:J:166:A:C5	2.53	0.77
3:K:130:A:C2'	3:K:131:A:H5'	2.15	0.77
4:L:496:U:H2'	4:L:497:U:O4'	1.84	0.77
4:L:508:U:N3	4:L:509:U:C5	2.52	0.77
4:L:578:U:HO2'	4:L:579:U:H5'	1.44	0.77
4:L:682:U:C2'	4:L:683:U:C5'	2.63	0.77
5:M:337:U:H2'	5:M:338:U:C4'	2.13	0.77
5:M:459:U:C2	5:M:460:U:C5	2.72	0.77
6:N:348:U:H2'	6:N:349:U:H6	1.50	0.77
1:I:97:A:C2	1:I:98:A:C4	2.73	0.77
1:I:184:A:C6	1:I:185:A:N6	2.53	0.77
1:I:231:A:C2'	1:I:232:A:H5'	2.14	0.77
1:I:231:A:C6	1:I:232:A:C5	2.72	0.77
1:I:261:A:C2'	1:I:262:A:C5'	2.63	0.77
1:I:276:A:H2'	1:I:277:A:C8	2.18	0.77
2:J:43:A:C2'	2:J:44:A:O4'	2.33	0.77
2:J:47:A:C2	2:J:48:A:C4	2.73	0.77
2:J:102:A:H2'	2:J:103:A:H8	1.49	0.77
2:J:223:A:C4	2:J:224:A:C8	2.73	0.77
3:K:59:A:O2'	3:K:60:A:C5'	2.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:140:A:N6	3:K:141:A:N6	2.32	0.77
3:K:207:A:H2'	3:K:208:A:H8	1.49	0.77
3:K:251:A:N6	3:K:252:A:N6	2.32	0.77
4:L:499:U:O4	4:L:500:U:O4	2.01	0.77
4:L:531:U:C2'	4:L:532:U:H5'	2.13	0.77
4:L:574:U:C2'	4:L:575:U:C6	2.65	0.77
4:L:637:U:N3	4:L:638:U:C5	2.53	0.77
4:L:751:U:C2'	4:L:752:U:H6	1.94	0.77
4:L:770:U:N3	4:L:771:U:C4	2.53	0.77
5:M:322:U:C2'	5:M:323:U:O4'	2.32	0.77
5:M:464:U:C2'	5:M:465:U:O5'	2.29	0.77
5:M:487:U:C2	5:M:488:U:C5	2.72	0.77
5:M:497:U:C2	5:M:498:U:C5	2.71	0.77
6:N:402:U:C2	6:N:403:U:C5	2.72	0.77
1:I:54:A:C6	1:I:55:A:N6	2.53	0.77
1:I:55:A:H2'	1:I:56:A:O5'	1.84	0.77
1:I:164:A:N3	1:I:165:A:N7	2.33	0.77
1:I:206:A:N3	1:I:207:A:C8	2.52	0.77
1:I:243:A:C4	1:I:244:A:N7	2.53	0.77
1:I:291:A:O2'	1:I:292:A:C5'	2.29	0.77
1:I:315:A:C2'	1:I:316:A:C5'	2.62	0.77
1:I:333:A:N3	1:I:334:A:O4'	2.18	0.77
2:J:71:A:N6	2:J:72:A:H62	1.83	0.77
2:J:214:A:C2	2:J:215:A:C4	2.72	0.77
3:K:110:A:C2	3:K:111:A:N9	2.53	0.77
3:K:135:A:N3	3:K:136:A:C8	2.52	0.77
3:K:146:A:C2	3:K:147:A:C4	2.72	0.77
3:K:252:A:H3'	3:K:253:A:P	2.25	0.77
4:L:553:U:H2'	4:L:554:U:O4'	1.84	0.77
4:L:581:U:N3	4:L:582:U:C4	2.52	0.77
4:L:647:U:H2'	4:L:648:U:H6	1.50	0.77
4:L:705:U:H2'	4:L:706:U:C5'	2.05	0.77
5:M:417:U:C4	5:M:418:U:C4	2.73	0.77
5:M:495:U:C2	5:M:496:U:C6	2.73	0.77
6:N:413:U:C2	6:N:414:U:C6	2.72	0.77
1:I:10:A:C2	1:I:11:A:C5	2.73	0.77
1:I:68:A:C6	1:I:69:A:N7	2.53	0.77
1:I:174:A:C2'	1:I:175:A:C5'	2.61	0.77
2:J:32:A:C2'	2:J:33:A:H5'	2.15	0.77
2:J:107:A:O2'	2:J:108:A:C5'	2.27	0.77
3:K:228:A:H2'	3:K:229:A:C8	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:462:U:C4	4:L:463:U:O4	2.37	0.77
4:L:495:U:C2	4:L:496:U:C5	2.73	0.77
4:L:712:U:C4	4:L:713:U:C5	2.73	0.77
4:L:747:U:C2	4:L:748:U:C5	2.72	0.77
6:N:425:U:N3	6:N:426:U:C5	2.53	0.77
6:N:428:U:N3	6:N:429:U:C5	2.52	0.77
1:I:84:A:C2	1:I:85:A:N7	2.52	0.76
1:I:96:A:C4	1:I:97:A:N7	2.53	0.76
2:J:27:A:N3	2:J:28:A:C8	2.53	0.76
2:J:72:A:C2	2:J:73:A:C4	2.73	0.76
2:J:200:A:C2	2:J:201:A:C8	2.72	0.76
3:K:42:A:HO2'	3:K:43:A:H5'	1.48	0.76
3:K:202:A:H2'	3:K:203:A:H8	1.49	0.76
4:L:421:U:O2'	4:L:422:U:O4'	2.02	0.76
4:L:730:U:O2	4:L:731:U:C6	2.38	0.76
4:L:816:U:N3	4:L:817:U:C5	2.53	0.76
5:M:305:U:O2'	5:M:306:U:H5'	1.86	0.76
5:M:448:U:H2'	5:M:449:U:C5'	2.15	0.76
5:M:460:U:H2'	5:M:461:U:O4'	1.84	0.76
5:M:463:U:C2'	5:M:464:U:C5'	2.62	0.76
5:M:488:U:C4	5:M:489:U:C4	2.73	0.76
1:I:44:A:O2'	1:I:45:A:C5'	2.32	0.76
1:I:94:A:C2	1:I:95:A:C4	2.72	0.76
1:I:102:A:N6	1:I:103:A:N6	2.33	0.76
1:I:129:A:C2	1:I:130:A:C4	2.72	0.76
2:J:99:A:C2'	2:J:100:A:O4'	2.33	0.76
2:J:152:A:O2'	2:J:153:A:H5'	1.84	0.76
2:J:183:A:C2	2:J:184:A:C4	2.73	0.76
3:K:106:A:H2'	3:K:107:A:O4'	1.84	0.76
3:K:124:A:N1	3:K:125:A:C6	2.52	0.76
4:L:484:U:C2	4:L:485:U:C6	2.72	0.76
4:L:571:U:H2'	4:L:572:U:H6	1.48	0.76
4:L:625:U:C2	4:L:626:U:C5	2.73	0.76
4:L:705:U:O2	4:L:706:U:C6	2.38	0.76
5:M:287:U:H2'	5:M:288:U:H6	1.49	0.76
5:M:324:U:H2'	5:M:325:U:O4'	1.84	0.76
6:N:485:U:C3'	6:N:486:U:P	2.73	0.76
1:I:53:A:C2	1:I:54:A:C8	2.73	0.76
1:I:142:A:H2'	1:I:143:A:H8	1.49	0.76
1:I:178:A:C2'	1:I:179:A:H5'	2.15	0.76
2:J:94:A:C2	2:J:95:A:C4	2.72	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:138:A:N6	2:J:139:A:H62	1.81	0.76
3:K:256:A:C2'	3:K:257:A:C5'	2.64	0.76
4:L:528:U:H2'	4:L:529:U:H6	1.51	0.76
4:L:615:U:O2'	4:L:616:U:H5'	1.86	0.76
4:L:730:U:O2'	4:L:731:U:P	2.43	0.76
4:L:794:U:C2'	4:L:795:U:C5'	2.63	0.76
4:L:811:U:C4	4:L:812:U:C4	2.73	0.76
5:M:405:U:C2'	5:M:406:U:C4'	2.63	0.76
5:M:407:U:N3	5:M:408:U:C5	2.52	0.76
5:M:481:U:H2'	5:M:482:U:C6	2.21	0.76
5:M:544:U:H2'	5:M:545:U:H6	1.49	0.76
6:N:430:U:H2'	6:N:431:U:O4'	1.85	0.76
6:N:473:U:C2	6:N:474:U:C5	2.72	0.76
6:N:497:U:HO2'	6:N:498:U:H5'	1.48	0.76
1:I:57:A:H2'	1:I:58:A:C8	2.20	0.76
1:I:79:A:C6	1:I:80:A:N7	2.53	0.76
1:I:79:A:C2'	1:I:80:A:H5'	2.15	0.76
1:I:90:A:H2'	1:I:91:A:O4'	1.85	0.76
1:I:152:A:H2'	1:I:153:A:H8	1.51	0.76
1:I:186:A:C2	1:I:187:A:C4	2.72	0.76
2:J:175:A:H2'	2:J:176:A:C8	2.20	0.76
2:J:237:A:C2	2:J:238:A:C5	2.73	0.76
3:K:167:A:C2'	3:K:168:A:C5'	2.63	0.76
4:L:420:U:C4	4:L:421:U:O4	2.37	0.76
4:L:558:U:O2	4:L:559:U:C6	2.37	0.76
4:L:599:U:N3	4:L:600:U:C4	2.54	0.76
4:L:770:U:O4	4:L:771:U:O4	2.03	0.76
5:M:346:U:C2	5:M:347:U:C6	2.73	0.76
6:N:409:U:N3	6:N:410:U:C5	2.54	0.76
6:N:411:U:O2	6:N:412:U:C6	2.38	0.76
6:N:460:U:O2	6:N:461:U:C5	2.38	0.76
6:N:470:U:O2'	6:N:471:U:H5'	1.84	0.76
1:I:57:A:H2'	1:I:58:A:H8	1.51	0.76
1:I:81:A:N3	1:I:82:A:C8	2.53	0.76
1:I:103:A:H2'	1:I:104:A:H8	1.51	0.76
1:I:175:A:O2'	1:I:176:A:O5'	2.03	0.76
1:I:179:A:C4	1:I:180:A:C8	2.74	0.76
1:I:213:A:H2'	1:I:214:A:H8	1.49	0.76
1:I:278:A:C2'	1:I:279:A:H5'	2.16	0.76
2:J:58:A:C2	2:J:59:A:C4	2.73	0.76
2:J:71:A:C5	2:J:72:A:N7	2.53	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:C2'	2:J:172:A:H8	1.95	0.76
2:J:218:A:C2'	2:J:219:A:C5'	2.63	0.76
3:K:153:A:N3	3:K:154:A:N9	2.32	0.76
3:K:227:A:H2'	3:K:228:A:C8	2.20	0.76
4:L:536:U:O2'	4:L:537:U:H5'	1.86	0.76
4:L:610:U:H2'	4:L:611:U:H6	1.50	0.76
4:L:737:U:O2'	4:L:738:U:C5'	2.33	0.76
5:M:514:U:C2'	5:M:515:U:H5'	2.15	0.76
5:M:525:U:C2	5:M:526:U:C6	2.74	0.76
5:M:539:U:C2'	5:M:540:U:C5'	2.63	0.76
5:M:541:U:H2'	5:M:542:U:H6	1.50	0.76
6:N:281:U:H2'	6:N:282:U:C5'	2.14	0.76
6:N:399:U:N3	6:N:400:U:C4	2.54	0.76
6:N:430:U:O2'	6:N:431:U:C5'	2.31	0.76
6:N:431:U:C2	6:N:432:U:C6	2.74	0.76
1:I:41:A:C2	1:I:42:A:C5	2.74	0.76
1:I:222:A:C2'	1:I:223:A:H5'	2.14	0.76
1:I:329:A:C4	1:I:330:A:C8	2.73	0.76
2:J:172:A:H2'	2:J:173:A:H8	1.50	0.76
3:K:45:A:O2'	3:K:46:A:C5'	2.33	0.76
3:K:150:A:N3	3:K:151:A:C8	2.54	0.76
3:K:166:A:C2'	3:K:167:A:O5'	2.33	0.76
3:K:203:A:HO2'	3:K:204:A:C5'	1.97	0.76
4:L:471:U:O2'	4:L:472:U:H5'	1.84	0.76
4:L:494:U:C2'	4:L:495:U:H5'	2.15	0.76
4:L:565:U:C2	4:L:566:U:C5	2.74	0.76
4:L:583:U:N3	4:L:584:U:C4	2.54	0.76
4:L:645:U:N3	4:L:646:U:C4	2.53	0.76
4:L:668:U:C2'	4:L:669:U:C6	2.63	0.76
4:L:691:U:H2'	4:L:692:U:H6	1.49	0.76
4:L:739:U:HO2'	4:L:740:U:H5'	0.94	0.76
4:L:743:U:C2'	4:L:744:U:O5'	2.32	0.76
4:L:755:U:H2'	4:L:756:U:C5'	2.16	0.76
4:L:766:U:C6	4:L:767:U:C5	2.74	0.76
4:L:793:U:N3	4:L:794:U:C5	2.54	0.76
5:M:430:U:H2'	5:M:431:U:C6	2.20	0.76
5:M:513:U:H2'	5:M:514:U:H6	1.50	0.76
1:I:79:A:N3	1:I:80:A:C8	2.54	0.76
1:I:128:A:C6	1:I:129:A:C5	2.73	0.76
1:I:156:A:C2'	1:I:157:A:C8	2.68	0.76
1:I:184:A:C5	1:I:185:A:N7	2.54	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:197:A:C2	1:I:198:A:C8	2.74	0.76
1:I:268:A:C4	1:I:269:A:C8	2.74	0.76
2:J:29:A:C6	2:J:30:A:C5	2.73	0.76
2:J:62:A:H2'	2:J:63:A:C5'	2.16	0.76
2:J:84:A:C6	2:J:85:A:C5	2.74	0.76
2:J:181:A:C2	2:J:182:A:C5	2.74	0.76
2:J:201:A:C5	2:J:202:A:N7	2.54	0.76
2:J:201:A:N6	2:J:202:A:N6	2.32	0.76
2:J:222:A:C2	2:J:223:A:N9	2.54	0.76
3:K:117:A:C2	3:K:118:A:C8	2.74	0.76
3:K:119:A:C4	3:K:120:A:C8	2.73	0.76
4:L:424:U:H2'	4:L:425:U:C6	2.20	0.76
4:L:727:U:O2	4:L:728:U:C6	2.39	0.76
5:M:299:U:C2'	5:M:300:U:C5'	2.64	0.76
5:M:372:U:O2'	5:M:373:U:H5'	1.86	0.76
5:M:453:U:C2	5:M:454:U:C5	2.73	0.76
6:N:459:U:H2'	6:N:460:U:C5	2.21	0.76
6:N:459:U:O2	6:N:460:U:C6	2.39	0.76
1:I:95:A:N1	1:I:96:A:N6	2.34	0.76
2:J:118:A:C2	2:J:119:A:N7	2.54	0.76
2:J:233:A:C2'	2:J:234:A:H5'	2.14	0.76
3:K:41:A:C2	3:K:42:A:C4	2.74	0.76
4:L:489:U:N3	4:L:490:U:C4	2.53	0.76
4:L:531:U:N3	4:L:532:U:C5	2.54	0.76
4:L:547:U:N3	4:L:548:U:O4	2.17	0.76
4:L:753:U:H2'	4:L:754:U:H6	1.49	0.76
5:M:305:U:H2'	5:M:306:U:H6	1.50	0.76
5:M:512:U:O2'	5:M:513:U:H5'	1.84	0.76
6:N:378:U:O4	6:N:379:U:O4	2.04	0.76
6:N:427:U:O2'	6:N:428:U:C5'	2.27	0.76
6:N:441:U:N3	6:N:442:U:C5	2.53	0.76
6:N:481:U:H2'	6:N:482:U:H6	1.50	0.76
1:I:135:A:C2	1:I:136:A:N9	2.54	0.76
1:I:198:A:C2	1:I:199:A:C5	2.74	0.76
1:I:267:A:N1	1:I:268:A:N6	2.34	0.76
1:I:274:A:C2'	1:I:275:A:H5'	2.14	0.76
2:J:237:A:O2'	2:J:238:A:P	2.43	0.76
3:K:97:A:C2'	3:K:98:A:O4'	2.30	0.76
3:K:124:A:N1	3:K:125:A:N6	2.34	0.76
3:K:254:A:H2'	3:K:255:A:O4'	1.86	0.76
4:L:550:U:O2	4:L:551:U:C6	2.39	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:723:U:C6	4:L:724:U:H5	1.97	0.76
4:L:762:U:H2'	4:L:763:U:H6	1.51	0.76
4:L:806:U:C2'	4:L:807:U:H5'	2.14	0.76
5:M:438:U:O2'	5:M:439:U:H5'	1.86	0.76
5:M:480:U:H2'	5:M:481:U:C6	2.21	0.76
5:M:504:U:C2	5:M:505:U:C6	2.74	0.76
5:M:537:U:H2'	5:M:538:U:C5'	2.15	0.76
6:N:422:U:C2	6:N:423:U:C5	2.74	0.76
1:I:25:A:C2	1:I:26:A:C4	2.74	0.76
1:I:88:A:C2	1:I:89:A:C8	2.73	0.76
1:I:248:A:C2	1:I:249:A:C4	2.74	0.76
2:J:61:A:C2	2:J:62:A:N7	2.53	0.76
2:J:107:A:HO2'	2:J:108:A:H5'	1.47	0.76
2:J:112:A:O2'	2:J:113:A:H5'	1.85	0.76
3:K:161:A:O2'	3:K:162:A:H5'	1.85	0.76
3:K:165:A:H2'	3:K:166:A:O4'	1.86	0.76
4:L:533:U:C2'	4:L:534:U:C5'	2.63	0.76
4:L:645:U:N3	4:L:646:U:C5	2.54	0.76
4:L:682:U:HO2'	4:L:683:U:H5'	0.88	0.76
4:L:686:U:HO2'	4:L:687:U:H5'	1.49	0.76
5:M:336:U:O4	5:M:337:U:C4	2.38	0.76
5:M:336:U:N3	5:M:337:U:C5	2.54	0.76
5:M:378:U:C2	5:M:379:U:C5	2.74	0.76
5:M:474:U:O3'	5:M:475:U:OP2	2.04	0.76
5:M:510:U:C2	5:M:511:U:C6	2.73	0.76
6:N:327:U:H2'	6:N:328:U:H6	1.49	0.76
6:N:427:U:H2'	6:N:428:U:H6	1.48	0.76
6:N:515:U:O2'	6:N:516:U:H5'	1.85	0.76
1:I:296:A:O2'	1:I:297:A:C5'	2.29	0.75
1:I:329:A:C5	1:I:330:A:N7	2.53	0.75
2:J:204:A:N1	2:J:205:A:C6	2.54	0.75
3:K:46:A:C3'	3:K:47:A:H5'	2.16	0.75
3:K:104:A:C2	3:K:105:A:C5	2.74	0.75
3:K:116:A:N6	3:K:117:A:N6	2.34	0.75
3:K:241:A:C3'	3:K:242:A:P	2.74	0.75
4:L:424:U:C4	4:L:425:U:C4	2.74	0.75
4:L:607:U:O2'	4:L:608:U:H5'	1.86	0.75
4:L:641:U:O2	4:L:642:U:C6	2.40	0.75
5:M:333:U:C2	5:M:334:U:C6	2.73	0.75
6:N:288:U:C3'	6:N:289:U:P	2.74	0.75
6:N:321:U:C4	6:N:322:U:C4	2.73	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:489:U:C2	6:N:490:U:C5	2.73	0.75
1:I:21:A:C4	1:I:22:A:C8	2.73	0.75
1:I:190:A:C2'	1:I:191:A:H5'	2.16	0.75
1:I:232:A:O2'	1:I:233:A:C5'	2.26	0.75
2:J:165:A:O2'	2:J:166:A:P	2.43	0.75
2:J:224:A:C4	2:J:225:A:C8	2.75	0.75
4:L:477:U:H2'	4:L:478:U:O4'	1.85	0.75
4:L:526:U:O2'	4:L:527:U:H5'	1.87	0.75
4:L:572:U:C2'	4:L:573:U:H5'	2.13	0.75
4:L:604:U:C2'	4:L:605:U:C5'	2.63	0.75
5:M:464:U:C2	5:M:465:U:C6	2.73	0.75
5:M:511:U:C2	5:M:512:U:C6	2.74	0.75
5:M:537:U:C2'	5:M:538:U:C5'	2.65	0.75
6:N:313:U:C4	6:N:314:U:O4	2.40	0.75
1:I:64:A:C4	1:I:65:A:C8	2.74	0.75
1:I:81:A:C2	1:I:82:A:N9	2.54	0.75
1:I:156:A:C2'	1:I:157:A:H8	1.98	0.75
1:I:328:A:H2'	1:I:329:A:C8	2.19	0.75
2:J:184:A:C2'	2:J:185:A:H5'	2.17	0.75
3:K:89:A:C4	3:K:90:A:N7	2.55	0.75
3:K:93:A:O2'	3:K:94:A:H5'	1.87	0.75
3:K:96:A:H2'	3:K:97:A:C8	2.21	0.75
3:K:146:A:C2	3:K:147:A:C8	2.74	0.75
4:L:603:U:HO2'	4:L:604:U:H5'	1.48	0.75
4:L:606:U:O2'	4:L:607:U:H5'	1.86	0.75
4:L:712:U:N1	4:L:713:U:C6	2.54	0.75
4:L:765:U:H2'	4:L:766:U:C4'	2.16	0.75
5:M:316:U:C2	5:M:317:U:C6	2.75	0.75
5:M:349:U:H2'	5:M:350:U:O4'	1.86	0.75
5:M:371:U:O2'	5:M:372:U:C5'	2.23	0.75
6:N:394:U:C2'	6:N:395:U:C5'	2.65	0.75
6:N:466:U:O2'	6:N:467:U:C5'	2.33	0.75
6:N:472:U:H2'	6:N:473:U:H6	1.52	0.75
1:I:20:A:H2'	1:I:21:A:O4'	1.85	0.75
1:I:101:A:H2'	1:I:102:A:H8	1.48	0.75
1:I:190:A:HO2'	1:I:191:A:H5'	1.50	0.75
1:I:266:A:N3	1:I:267:A:O4'	2.19	0.75
1:I:284:A:H2'	1:I:285:A:C5'	2.15	0.75
2:J:133:A:C2'	2:J:134:A:C5'	2.59	0.75
2:J:265:A:C2'	2:J:266:A:O5'	2.35	0.75
3:K:151:A:C2	3:K:152:A:C5	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:555:U:O2'	4:L:556:U:H5'	1.86	0.75
4:L:578:U:C2'	4:L:579:U:C5'	2.64	0.75
4:L:588:U:O2	4:L:589:U:C6	2.40	0.75
4:L:638:U:H2'	4:L:639:U:O4'	1.85	0.75
4:L:660:U:H2'	4:L:661:U:C6	2.20	0.75
4:L:680:U:H2'	4:L:681:U:C5	2.21	0.75
4:L:728:U:C2	4:L:729:U:C4	2.73	0.75
5:M:296:U:H2'	5:M:297:U:C5'	2.15	0.75
5:M:406:U:H2'	5:M:407:U:C5'	2.16	0.75
5:M:498:U:O2	5:M:499:U:C5	2.39	0.75
6:N:273:U:H2'	6:N:274:U:H6	1.50	0.75
6:N:407:U:O2'	6:N:408:U:H5'	1.86	0.75
6:N:493:U:H2'	6:N:494:U:H6	1.51	0.75
1:I:115:A:N3	1:I:116:A:C8	2.55	0.75
1:I:129:A:N3	1:I:130:A:C8	2.54	0.75
1:I:341:A:H2'	1:I:342:A:C5'	2.15	0.75
1:I:404:A:C6	1:I:405:A:N6	2.54	0.75
2:J:83:A:C6	2:J:84:A:C6	2.75	0.75
4:L:546:U:C2'	4:L:547:U:O4'	2.35	0.75
4:L:574:U:C2'	4:L:575:U:H6	1.97	0.75
4:L:585:U:H2'	4:L:586:U:C5'	2.16	0.75
4:L:588:U:C2'	4:L:589:U:C5'	2.63	0.75
4:L:723:U:H2'	4:L:724:U:C6	2.22	0.75
4:L:793:U:C2	4:L:794:U:C5	2.75	0.75
4:L:819:U:C2	4:L:820:U:C5	2.74	0.75
5:M:295:U:O2'	5:M:296:U:H5'	1.87	0.75
5:M:486:U:C2'	5:M:487:U:H5'	2.16	0.75
5:M:518:U:O2'	5:M:519:U:C5'	2.34	0.75
6:N:394:U:H2'	6:N:395:U:O5'	1.86	0.75
6:N:430:U:C2	6:N:431:U:C5	2.75	0.75
6:N:439:U:C2	6:N:440:U:C5	2.74	0.75
1:I:15:A:C4	1:I:16:A:C8	2.75	0.75
1:I:112:A:O2'	1:I:113:A:O4'	2.03	0.75
1:I:156:A:C6	1:I:157:A:N6	2.55	0.75
1:I:165:A:N6	1:I:166:A:N6	2.33	0.75
1:I:318:A:O2'	1:I:319:A:C5'	2.30	0.75
2:J:50:A:O2'	2:J:51:A:C5'	2.32	0.75
2:J:142:A:C6	2:J:143:A:C6	2.74	0.75
2:J:142:A:C5	2:J:143:A:N7	2.54	0.75
2:J:200:A:O2'	2:J:201:A:C5'	2.35	0.75
3:K:110:A:H2'	3:K:111:A:O5'	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:167:A:N6	3:K:168:A:H62	1.84	0.75
4:L:508:U:C4	4:L:509:U:O4	2.40	0.75
4:L:597:U:H2'	4:L:598:U:H6	1.51	0.75
4:L:662:U:N3	4:L:663:U:O4	2.20	0.75
4:L:670:U:O2'	4:L:671:U:H5'	1.87	0.75
4:L:676:U:H3'	4:L:677:U:P	2.25	0.75
4:L:693:U:H2'	4:L:694:U:C6	2.21	0.75
4:L:693:U:H2'	4:L:694:U:H6	1.51	0.75
5:M:298:U:C2'	5:M:299:U:H5'	2.17	0.75
5:M:326:U:O2'	5:M:327:U:H5'	1.87	0.75
5:M:507:U:N3	5:M:508:U:C5	2.54	0.75
5:M:539:U:C2	5:M:540:U:C6	2.74	0.75
6:N:371:U:O2'	6:N:372:U:H5'	1.87	0.75
1:I:56:A:C2	1:I:57:A:N9	2.54	0.75
1:I:155:A:H2'	1:I:156:A:H8	1.51	0.75
1:I:186:A:O2'	1:I:187:A:O5'	2.04	0.75
1:I:226:A:C2	1:I:227:A:C8	2.75	0.75
1:I:249:A:N3	1:I:250:A:C8	2.53	0.75
1:I:274:A:H2'	1:I:275:A:O5'	1.86	0.75
1:I:277:A:N6	1:I:278:A:H61	1.78	0.75
1:I:278:A:O2'	1:I:279:A:O4'	2.03	0.75
1:I:352:A:O2'	1:I:353:A:H5'	1.87	0.75
2:J:101:A:C6	2:J:102:A:C6	2.75	0.75
2:J:184:A:H2'	2:J:185:A:O5'	1.84	0.75
2:J:192:A:C2'	2:J:193:A:H5'	2.17	0.75
3:K:54:A:C2	3:K:55:A:N7	2.54	0.75
3:K:198:A:H2'	3:K:199:A:H8	1.49	0.75
4:L:518:U:C2	4:L:519:U:C6	2.75	0.75
4:L:572:U:C2'	4:L:573:U:C5'	2.63	0.75
4:L:806:U:C2'	4:L:807:U:C5'	2.65	0.75
5:M:371:U:C2	5:M:372:U:C6	2.74	0.75
5:M:460:U:C4	5:M:461:U:C5	2.74	0.75
1:I:106:A:C2	1:I:107:A:N7	2.53	0.75
1:I:174:A:O2'	1:I:175:A:C5'	2.26	0.75
1:I:242:A:N3	1:I:243:A:N9	2.35	0.75
2:J:42:A:O2'	2:J:43:A:C4'	2.35	0.75
2:J:181:A:N3	2:J:182:A:C8	2.55	0.75
3:K:49:A:O2'	3:K:50:A:O5'	2.04	0.75
5:M:453:U:O2'	5:M:454:U:C5'	2.35	0.75
6:N:301:U:H2'	6:N:302:U:C6	2.22	0.75
6:N:428:U:C2	6:N:429:U:C5	2.75	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:73:A:H2'	1:I:74:A:H8	1.51	0.75
1:I:86:A:C4	1:I:87:A:N7	2.54	0.75
1:I:140:A:C2	1:I:141:A:N7	2.54	0.75
1:I:163:A:N3	1:I:164:A:C8	2.55	0.75
3:K:75:A:C3'	3:K:76:A:P	2.75	0.75
3:K:164:A:C2'	3:K:165:A:H5'	2.16	0.75
4:L:521:U:H2'	4:L:522:U:O5'	1.87	0.75
4:L:542:U:C2	4:L:543:U:C5	2.75	0.75
4:L:746:U:H2'	4:L:747:U:H6	1.52	0.75
4:L:758:U:N3	4:L:759:U:C4	2.55	0.75
6:N:304:U:H2'	6:N:305:U:H6	1.51	0.75
6:N:380:U:H2'	6:N:381:U:O5'	1.87	0.75
1:I:14:A:H2'	1:I:15:A:C8	2.22	0.74
1:I:68:A:C6	1:I:69:A:C5	2.76	0.74
1:I:257:A:C2	1:I:258:A:C8	2.74	0.74
2:J:8:A:C2	2:J:9:A:C4	2.75	0.74
2:J:29:A:C5	2:J:30:A:C8	2.74	0.74
2:J:93:A:C4	2:J:94:A:C8	2.74	0.74
2:J:165:A:C2	2:J:166:A:N7	2.56	0.74
2:J:223:A:C2	2:J:224:A:C8	2.75	0.74
3:K:38:A:C2	3:K:39:A:C5	2.74	0.74
3:K:102:A:C2	3:K:103:A:N7	2.55	0.74
3:K:153:A:C2	3:K:154:A:C8	2.74	0.74
3:K:191:A:O2'	3:K:192:A:C5'	2.35	0.74
4:L:554:U:C2	4:L:555:U:H5	2.02	0.74
5:M:406:U:O2'	5:M:407:U:C5'	2.27	0.74
5:M:437:U:O2'	5:M:438:U:H5'	1.86	0.74
5:M:502:U:H2'	5:M:503:U:C6	2.21	0.74
5:M:527:U:N3	5:M:528:U:C5	2.55	0.74
5:M:540:U:C2	5:M:541:U:C5	2.75	0.74
6:N:403:U:O2'	6:N:404:U:C5'	2.33	0.74
6:N:417:U:C2	6:N:418:U:C6	2.75	0.74
1:I:106:A:C2	1:I:107:A:N9	2.55	0.74
1:I:244:A:N3	1:I:245:A:C8	2.55	0.74
1:I:309:A:H2'	1:I:310:A:C8	2.22	0.74
2:J:38:A:N3	2:J:39:A:C8	2.55	0.74
2:J:224:A:C6	2:J:225:A:N7	2.55	0.74
3:K:153:A:H2'	3:K:154:A:H8	1.48	0.74
4:L:592:U:C2	4:L:593:U:C5	2.75	0.74
4:L:781:U:C2	4:L:782:U:C6	2.75	0.74
5:M:327:U:C2	5:M:328:U:C6	2.73	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:332:U:C2	5:M:333:U:C5	2.75	0.74
6:N:408:U:C2	6:N:409:U:C5	2.76	0.74
6:N:449:U:H2'	6:N:450:U:O4'	1.87	0.74
6:N:460:U:H2'	6:N:461:U:C6	2.23	0.74
1:I:46:A:N3	1:I:47:A:N7	2.34	0.74
1:I:70:A:C2	1:I:71:A:C4	2.75	0.74
1:I:109:A:O2'	1:I:110:A:P	2.45	0.74
1:I:198:A:C2	1:I:199:A:N7	2.54	0.74
1:I:268:A:C2	1:I:269:A:C1'	2.70	0.74
1:I:403:A:H2'	1:I:404:A:H8	1.50	0.74
2:J:93:A:C2'	2:J:94:A:C5'	2.64	0.74
2:J:192:A:C2	2:J:193:A:C8	2.75	0.74
3:K:101:A:C6	3:K:102:A:N7	2.56	0.74
4:L:421:U:C2'	4:L:422:U:C5'	2.66	0.74
4:L:602:U:N3	4:L:603:U:C5	2.55	0.74
4:L:640:U:C2	4:L:641:U:C5	2.75	0.74
4:L:764:U:C2	4:L:765:U:C6	2.75	0.74
1:I:79:A:C2	4:L:747:U:C2	2.75	0.74
1:I:264:A:O2'	1:I:265:A:H5'	1.86	0.74
1:I:323:A:C2	1:I:324:A:C1'	2.71	0.74
3:K:99:A:C2	3:K:100:A:N9	2.55	0.74
3:K:120:A:O2'	3:K:121:A:H5'	1.87	0.74
4:L:635:U:C2'	4:L:636:U:C5'	2.64	0.74
4:L:718:U:C2'	4:L:719:U:O5'	2.36	0.74
5:M:459:U:H2'	5:M:460:U:C6	2.21	0.74
5:M:541:U:O2'	5:M:542:U:C5'	2.34	0.74
5:M:546:U:N3	5:M:547:U:C5	2.55	0.74
1:I:88:A:C2	1:I:89:A:C4	2.75	0.74
2:J:57:A:C2	2:J:58:A:N7	2.56	0.74
3:K:78:A:C2'	3:K:79:A:H5'	2.18	0.74
4:L:720:U:O4	4:L:721:U:O4	2.04	0.74
4:L:740:U:H2'	4:L:741:U:C5'	2.17	0.74
5:M:299:U:H2'	5:M:300:U:H6	1.52	0.74
5:M:318:U:H2'	5:M:319:U:O4'	1.87	0.74
5:M:361:U:O2	5:M:362:U:C6	2.41	0.74
5:M:428:U:H2'	5:M:429:U:C5'	2.16	0.74
6:N:335:U:C4	6:N:336:U:O4	2.41	0.74
1:I:14:A:O2'	1:I:15:A:C4'	2.35	0.74
1:I:79:A:C2'	1:I:80:A:C5'	2.64	0.74
1:I:135:A:C4	1:I:136:A:C8	2.75	0.74
1:I:269:A:C2	4:L:557:U:C2	2.76	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:364:A:O2'	1:I:365:A:C5'	2.33	0.74
2:J:106:A:C2'	2:J:107:A:C5'	2.65	0.74
3:K:71:A:O2'	3:K:72:A:P	2.45	0.74
3:K:88:A:C2	3:K:89:A:N9	2.55	0.74
3:K:97:A:H2'	3:K:98:A:C5'	2.16	0.74
3:K:119:A:C2	3:K:120:A:C8	2.75	0.74
3:K:203:A:C4	3:K:204:A:N7	2.55	0.74
3:K:209:A:N6	3:K:210:A:N6	2.36	0.74
4:L:499:U:N3	4:L:500:U:C5	2.56	0.74
4:L:553:U:O2	4:L:554:U:O4'	2.05	0.74
4:L:719:U:H2'	4:L:720:U:H6	1.50	0.74
4:L:727:U:O2'	4:L:728:U:P	2.44	0.74
4:L:754:U:C2'	4:L:755:U:O4'	2.34	0.74
5:M:305:U:C2	5:M:306:U:C5	2.76	0.74
5:M:349:U:N3	5:M:350:U:C5	2.55	0.74
6:N:278:U:N3	6:N:279:U:C5	2.55	0.74
1:I:250:A:C2'	1:I:251:A:H8	2.00	0.74
2:J:99:A:O2'	2:J:100:A:H5'	1.87	0.74
2:J:192:A:H2'	2:J:193:A:O5'	1.88	0.74
3:K:124:A:H2'	3:K:125:A:C8	2.22	0.74
3:K:249:A:C2	3:K:250:A:C8	2.76	0.74
4:L:805:U:C2	4:L:806:U:C5	2.76	0.74
5:M:457:U:H2'	5:M:458:U:C5'	2.18	0.74
5:M:503:U:C2	5:M:504:U:C5	2.76	0.74
5:M:512:U:C2	5:M:513:U:C6	2.75	0.74
5:M:518:U:O2	5:M:519:U:C6	2.40	0.74
6:N:277:U:H2'	6:N:278:U:O5'	1.87	0.74
6:N:323:U:C2'	6:N:324:U:H5'	2.18	0.74
6:N:337:U:H2'	6:N:338:U:H6	1.51	0.74
6:N:362:U:C2'	6:N:363:U:C5'	2.65	0.74
6:N:366:U:C2	6:N:367:U:C5	2.76	0.74
6:N:448:U:C2'	6:N:449:U:C5'	2.66	0.74
1:I:189:A:C2'	1:I:190:A:C5'	2.65	0.74
1:I:243:A:H61	1:I:244:A:N6	1.85	0.74
1:I:277:A:C5	1:I:278:A:N7	2.56	0.74
3:K:90:A:N3	3:K:91:A:C8	2.56	0.74
4:L:421:U:O2'	4:L:422:U:C4'	2.36	0.74
4:L:499:U:N3	4:L:500:U:C4	2.56	0.74
4:L:602:U:H2'	4:L:603:U:H6	1.51	0.74
4:L:639:U:C2'	4:L:640:U:C5'	2.64	0.74
4:L:682:U:H2'	4:L:683:U:C6	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:699:U:C4	4:L:700:U:C5	2.76	0.74
4:L:783:U:O2'	4:L:784:U:P	2.45	0.74
5:M:297:U:C2'	5:M:298:U:H5'	2.17	0.74
5:M:370:U:H2'	5:M:371:U:H6	1.51	0.74
5:M:420:U:H2'	5:M:421:U:H6	1.53	0.74
5:M:474:U:C3'	5:M:475:U:P	2.75	0.74
5:M:527:U:C2	5:M:528:U:C6	2.76	0.74
6:N:339:U:O2'	6:N:340:U:C5'	2.34	0.74
6:N:425:U:N1	6:N:426:U:C6	2.56	0.74
1:I:87:A:HO2'	1:I:88:A:H5'	1.50	0.74
1:I:272:A:H2'	1:I:273:A:H8	1.53	0.74
1:I:348:A:C2'	1:I:349:A:C5'	2.66	0.74
1:I:360:A:O2'	1:I:361:A:C5'	2.28	0.74
1:I:388:A:O2'	1:I:389:A:C5'	2.36	0.74
2:J:42:A:C2	2:J:43:A:C4	2.76	0.74
2:J:81:A:C2'	2:J:82:A:C5'	2.66	0.74
4:L:574:U:C4	4:L:575:U:C4	2.75	0.74
4:L:666:U:N3	4:L:667:U:C5	2.56	0.74
5:M:377:U:C2'	5:M:378:U:H5'	2.17	0.74
6:N:406:U:H2'	6:N:407:U:H6	1.52	0.74
1:I:175:A:C2	1:I:176:A:C8	2.70	0.74
1:I:184:A:C2	4:L:642:U:C2	2.75	0.74
1:I:243:A:C6	1:I:244:A:C5	2.75	0.74
1:I:400:A:N6	1:I:401:A:N6	2.36	0.74
2:J:48:A:C2'	2:J:49:A:H5'	2.17	0.74
2:J:67:A:C2'	2:J:68:A:C5'	2.65	0.74
2:J:207:A:C2'	2:J:208:A:H5'	2.18	0.74
2:J:254:A:O2'	2:J:255:A:C5'	2.31	0.74
3:K:71:A:C2'	3:K:72:A:H8	1.94	0.74
3:K:105:A:C2	3:K:106:A:C4	2.76	0.74
3:K:115:A:H2'	3:K:116:A:H8	1.47	0.74
4:L:684:U:C4	4:L:685:U:C4	2.76	0.74
4:L:716:U:H2'	4:L:717:U:H6	1.52	0.74
4:L:803:U:H2'	4:L:804:U:O4'	1.87	0.74
4:L:810:U:C2	4:L:811:U:C5	2.75	0.74
5:M:394:U:C2	5:M:395:U:C5	2.76	0.74
5:M:420:U:H2'	5:M:421:U:O4'	1.88	0.74
6:N:377:U:O2	6:N:378:U:C6	2.41	0.74
6:N:430:U:N3	6:N:431:U:C5	2.56	0.74
6:N:474:U:H2'	6:N:475:U:H6	1.53	0.74
1:I:55:A:C2'	1:I:56:A:H5'	2.16	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:81:A:C2'	1:I:82:A:C5'	2.66	0.73
1:I:103:A:C2	1:I:104:A:C8	2.76	0.73
2:J:130:A:H2'	2:J:131:A:O4'	1.88	0.73
3:K:88:A:H2'	3:K:89:A:O5'	1.82	0.73
3:K:136:A:C2'	3:K:137:A:O5'	2.34	0.73
3:K:168:A:C2	3:K:169:A:C4	2.76	0.73
3:K:253:A:H2'	3:K:254:A:O5'	1.87	0.73
4:L:711:U:C2'	4:L:712:U:C6	2.67	0.73
5:M:407:U:C4	5:M:408:U:C4	2.75	0.73
5:M:437:U:C2'	5:M:438:U:C5'	2.66	0.73
5:M:488:U:N3	5:M:489:U:C4	2.56	0.73
5:M:538:U:C2	5:M:539:U:C5	2.76	0.73
6:N:412:U:C2	6:N:413:U:C6	2.76	0.73
1:I:242:A:C2	1:I:243:A:C1'	2.71	0.73
1:I:260:A:C4	1:I:261:A:C8	2.77	0.73
1:I:315:A:O2'	1:I:316:A:C5'	2.32	0.73
2:J:26:A:N3	2:J:27:A:C8	2.56	0.73
2:J:50:A:C2	2:J:51:A:C4	2.76	0.73
3:K:105:A:C6	3:K:106:A:C6	2.76	0.73
3:K:119:A:C2	3:K:120:A:C1'	2.71	0.73
4:L:553:U:C2'	4:L:554:U:O4'	2.36	0.73
4:L:577:U:C4	4:L:578:U:C5	2.76	0.73
5:M:327:U:N3	5:M:328:U:C5	2.55	0.73
5:M:387:U:C2	5:M:388:U:C6	2.72	0.73
5:M:430:U:N3	5:M:431:U:O4	2.21	0.73
5:M:435:U:O2	5:M:436:U:N1	2.20	0.73
5:M:453:U:H2'	5:M:454:U:C1'	2.18	0.73
5:M:453:U:O2'	5:M:454:U:C4'	2.35	0.73
5:M:507:U:C2	5:M:508:U:C5	2.77	0.73
6:N:318:U:N3	6:N:319:U:O4	2.21	0.73
6:N:424:U:H2'	6:N:425:U:O4'	1.86	0.73
6:N:434:U:C2	6:N:435:U:C6	2.77	0.73
1:I:88:A:N3	1:I:89:A:C8	2.56	0.73
1:I:175:A:C4	1:I:176:A:N7	2.56	0.73
1:I:179:A:N6	1:I:180:A:C6	2.55	0.73
1:I:238:A:C4	1:I:239:A:N7	2.56	0.73
1:I:261:A:C4	1:I:262:A:N7	2.56	0.73
2:J:234:A:C2'	2:J:235:A:C5'	2.66	0.73
2:J:260:A:C2'	2:J:261:A:H5'	2.18	0.73
4:L:537:U:O2'	4:L:538:U:C4'	2.36	0.73
4:L:579:U:C2	4:L:580:U:C6	2.75	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:643:U:N3	4:L:644:U:C5	2.56	0.73
4:L:680:U:H2'	4:L:681:U:C6	2.24	0.73
4:L:711:U:C4	4:L:712:U:C5	2.75	0.73
4:L:745:U:N3	4:L:746:U:C5	2.55	0.73
5:M:296:U:H2'	5:M:297:U:O4'	1.88	0.73
5:M:349:U:H2'	5:M:350:U:H6	1.54	0.73
5:M:368:U:HO2'	5:M:369:U:H5'	1.50	0.73
5:M:409:U:O2	5:M:410:U:C1'	2.36	0.73
5:M:439:U:O2'	5:M:440:U:H5'	1.89	0.73
1:I:82:A:C5	1:I:83:A:C8	2.76	0.73
1:I:87:A:C2	1:I:88:A:N9	2.56	0.73
1:I:115:A:C2	1:I:116:A:C8	2.76	0.73
1:I:202:A:H2'	1:I:203:A:C5'	2.17	0.73
1:I:228:A:C5	1:I:229:A:N7	2.56	0.73
1:I:274:A:C2'	1:I:275:A:C5'	2.66	0.73
1:I:283:A:C2	1:I:284:A:C4	2.76	0.73
1:I:283:A:H2'	1:I:284:A:H8	1.52	0.73
2:J:143:A:C4	2:J:144:A:C8	2.76	0.73
2:J:156:A:C2'	2:J:157:A:C5'	2.66	0.73
2:J:217:A:H2'	2:J:218:A:H8	1.53	0.73
3:K:138:A:C2	3:K:139:A:C5	2.76	0.73
4:L:437:U:H2'	4:L:438:U:C6	2.24	0.73
4:L:510:U:H2'	4:L:511:U:H6	1.53	0.73
4:L:550:U:C2	4:L:551:U:C6	2.75	0.73
4:L:550:U:HO2'	4:L:551:U:H5'	0.92	0.73
4:L:665:U:C2	4:L:666:U:C5	2.76	0.73
4:L:681:U:H2'	4:L:682:U:O4'	1.87	0.73
4:L:758:U:H2'	4:L:759:U:C5'	2.17	0.73
4:L:804:U:O2'	4:L:805:U:H5'	1.88	0.73
4:L:806:U:N3	4:L:807:U:C5	2.56	0.73
5:M:290:U:H2'	5:M:291:U:H6	1.54	0.73
5:M:400:U:O2'	5:M:401:U:H5'	1.89	0.73
5:M:504:U:C2'	5:M:505:U:H5'	2.18	0.73
6:N:524:U:HO3'	6:N:525:U:P	2.00	0.73
1:I:13:A:N1	1:I:14:A:C6	2.57	0.73
1:I:65:A:H2'	1:I:66:A:C4'	2.19	0.73
1:I:69:A:C4	1:I:70:A:C8	2.77	0.73
1:I:75:A:C2	1:I:76:A:N9	2.57	0.73
1:I:222:A:C4	1:I:223:A:C8	2.76	0.73
1:I:376:A:H61	1:I:377:A:N6	1.80	0.73
2:J:51:A:H2'	2:J:52:A:O4'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:124:A:C2	2:J:125:A:C5	2.76	0.73
2:J:160:A:C2'	2:J:161:A:C4'	2.66	0.73
2:J:252:A:C2'	2:J:253:A:H5'	2.18	0.73
3:K:88:A:C2	3:K:89:A:N7	2.56	0.73
3:K:230:A:N6	3:K:231:A:N6	2.37	0.73
4:L:591:U:O2'	4:L:592:U:H5'	1.88	0.73
4:L:630:U:C2	4:L:631:U:C5	2.76	0.73
4:L:694:U:O2'	4:L:695:U:C5'	2.18	0.73
4:L:768:U:C2	4:L:769:U:C6	2.76	0.73
5:M:347:U:H2'	5:M:348:U:H6	1.53	0.73
5:M:349:U:O2'	5:M:350:U:C5'	2.33	0.73
6:N:289:U:C3'	6:N:290:U:P	2.75	0.73
6:N:402:U:H2'	6:N:403:U:C6	2.22	0.73
6:N:492:U:H2'	6:N:493:U:H6	1.53	0.73
1:I:92:A:N6	1:I:93:A:H62	1.87	0.73
1:I:239:A:N3	1:I:240:A:C8	2.57	0.73
1:I:247:A:N6	1:I:248:A:N6	2.37	0.73
1:I:258:A:HO2'	1:I:259:A:H5'	1.52	0.73
1:I:340:A:O2'	1:I:341:A:P	2.45	0.73
1:I:361:A:C2'	1:I:362:A:C5'	2.63	0.73
2:J:13:A:C2	2:J:14:A:C4	2.76	0.73
2:J:108:A:O2'	2:J:109:A:H5'	1.87	0.73
3:K:65:A:C6	3:K:66:A:N6	2.57	0.73
3:K:71:A:C4	3:K:72:A:N7	2.56	0.73
4:L:484:U:H2'	4:L:485:U:O4'	1.88	0.73
4:L:592:U:H2'	4:L:593:U:H6	1.52	0.73
4:L:706:U:C4	4:L:707:U:C4	2.76	0.73
4:L:730:U:H2'	4:L:731:U:H6	1.54	0.73
4:L:749:U:C2'	4:L:750:U:H5'	2.19	0.73
4:L:811:U:O2'	4:L:812:U:C5'	2.37	0.73
5:M:295:U:H2'	5:M:296:U:H6	1.51	0.73
5:M:345:U:C2	5:M:346:U:C5	2.77	0.73
5:M:418:U:N3	5:M:419:U:C5	2.56	0.73
5:M:494:U:C2	5:M:495:U:C6	2.76	0.73
5:M:520:U:C2	5:M:521:U:C6	2.75	0.73
6:N:302:U:O2'	6:N:303:U:H5'	1.87	0.73
6:N:311:U:H2'	6:N:312:U:H6	1.54	0.73
6:N:327:U:C2	6:N:328:U:C6	2.76	0.73
6:N:433:U:H2'	6:N:434:U:H6	1.53	0.73
6:N:460:U:H2'	6:N:461:U:C5	2.24	0.73
1:I:16:A:C6	1:I:17:A:N7	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:82:A:C2	1:I:83:A:C4	2.76	0.73
1:I:113:A:C5	1:I:114:A:N7	2.56	0.73
1:I:193:A:O2'	1:I:194:A:C5'	2.35	0.73
1:I:268:A:N3	1:I:269:A:N9	2.37	0.73
2:J:13:A:H2'	2:J:14:A:O5'	1.87	0.73
2:J:64:A:C2	2:J:65:A:C5	2.77	0.73
2:J:105:A:H2'	2:J:106:A:H8	1.54	0.73
2:J:179:A:C2	2:J:180:A:C8	2.77	0.73
3:K:73:A:C2'	3:K:74:A:H5'	2.19	0.73
3:K:132:A:C2'	3:K:133:A:C5'	2.66	0.73
3:K:206:A:H2'	3:K:207:A:H8	1.54	0.73
4:L:422:U:H2'	4:L:423:U:O4'	1.87	0.73
4:L:431:U:H2'	4:L:432:U:C6	2.23	0.73
4:L:572:U:C2'	4:L:573:U:O5'	2.37	0.73
4:L:740:U:O2'	4:L:741:U:C5'	2.29	0.73
5:M:335:U:H2'	5:M:336:U:C6	2.23	0.73
5:M:364:U:HO2'	5:M:365:U:H5'	1.51	0.73
6:N:424:U:N3	6:N:425:U:C4	2.57	0.73
6:N:473:U:C4	6:N:474:U:O4	2.42	0.73
1:I:120:A:H2'	1:I:121:A:O5'	1.88	0.73
1:I:287:A:C2'	1:I:288:A:C4'	2.67	0.73
2:J:246:A:O2'	2:J:247:A:H5'	1.89	0.73
2:J:248:A:C4	2:J:249:A:N7	2.57	0.73
3:K:147:A:H2'	3:K:148:A:H8	1.52	0.73
3:K:165:A:C2	3:K:166:A:C4	2.77	0.73
3:K:206:A:O2'	3:K:207:A:H5'	1.88	0.73
4:L:612:U:C2'	4:L:613:U:C5'	2.67	0.73
4:L:724:U:O2'	4:L:725:U:C5'	2.31	0.73
5:M:393:U:N3	5:M:394:U:C4	2.57	0.73
5:M:515:U:H2'	5:M:516:U:O5'	1.88	0.73
6:N:434:U:C2	6:N:435:U:C5	2.76	0.73
6:N:451:U:H2'	6:N:452:U:O4'	1.89	0.73
6:N:485:U:C2'	6:N:486:U:C4'	2.64	0.73
1:I:47:A:H2'	1:I:48:A:H8	1.53	0.73
1:I:54:A:N3	1:I:55:A:C8	2.57	0.73
1:I:101:A:C2	1:I:102:A:N7	2.52	0.73
1:I:249:A:N3	1:I:250:A:N9	2.37	0.73
1:I:252:A:C2	1:I:253:A:C8	2.75	0.73
1:I:327:A:C2	1:I:328:A:C8	2.76	0.73
2:J:39:A:C2'	2:J:40:A:H5'	2.18	0.73
2:J:43:A:C2	2:J:44:A:C4	2.77	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:123:A:C2'	2:J:124:A:H5'	2.19	0.73
3:K:101:A:C6	3:K:102:A:C5	2.77	0.73
3:K:133:A:C2'	3:K:134:A:H5'	2.18	0.73
3:K:146:A:H2'	3:K:147:A:H8	1.54	0.73
4:L:587:U:C2	4:L:588:U:C6	2.77	0.73
4:L:639:U:C2	4:L:640:U:C6	2.77	0.73
4:L:693:U:N3	4:L:694:U:O4	2.19	0.73
4:L:695:U:O2	4:L:696:U:C6	2.41	0.73
5:M:538:U:C4	5:M:539:U:C5	2.76	0.73
6:N:439:U:N3	6:N:440:U:C5	2.57	0.73
6:N:448:U:H2'	6:N:449:U:H6	1.53	0.73
1:I:88:A:C2	1:I:89:A:N9	2.56	0.73
1:I:206:A:C2	1:I:207:A:C5	2.77	0.73
1:I:371:A:O2'	1:I:372:A:H5'	1.88	0.73
2:J:13:A:C2	2:J:14:A:N9	2.56	0.73
2:J:122:A:C6	2:J:123:A:C6	2.77	0.73
3:K:138:A:C2	3:K:139:A:N7	2.57	0.73
4:L:515:U:O2'	4:L:516:U:H5'	1.89	0.73
4:L:589:U:C2	4:L:590:U:C6	2.77	0.73
4:L:601:U:C2	4:L:602:U:C5	2.77	0.73
4:L:688:U:C2'	4:L:689:U:O5'	2.37	0.73
4:L:712:U:C2	4:L:713:U:N1	2.56	0.73
4:L:756:U:N3	4:L:757:U:C5	2.57	0.73
5:M:342:U:H2'	5:M:343:U:H6	1.53	0.73
5:M:454:U:H2'	5:M:455:U:C6	2.23	0.73
5:M:456:U:H2'	5:M:457:U:H6	1.52	0.73
6:N:393:U:O2'	6:N:394:U:H5'	1.89	0.73
1:I:72:A:C4	1:I:73:A:C8	2.77	0.72
2:J:63:A:C2'	2:J:64:A:H5'	2.19	0.72
2:J:198:A:C4	2:J:199:A:C8	2.76	0.72
3:K:99:A:H2'	3:K:100:A:O4'	1.89	0.72
3:K:118:A:C4	3:K:119:A:C8	2.77	0.72
3:K:156:A:H2'	3:K:157:A:C4'	2.19	0.72
3:K:189:A:N6	3:K:190:A:N6	2.37	0.72
3:K:226:A:H2'	3:K:227:A:H8	1.52	0.72
4:L:585:U:H2'	4:L:586:U:H6	1.54	0.72
4:L:668:U:C4	4:L:669:U:O4	2.42	0.72
4:L:750:U:O2'	4:L:751:U:P	2.47	0.72
4:L:810:U:O2'	4:L:811:U:O4'	2.07	0.72
5:M:299:U:N3	5:M:300:U:C5	2.57	0.72
5:M:414:U:C2	5:M:415:U:C5	2.76	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:418:U:C4	5:M:419:U:C5	2.77	0.72
5:M:436:U:H2'	5:M:437:U:H6	1.52	0.72
5:M:484:U:N3	5:M:485:U:C5	2.57	0.72
6:N:338:U:N3	6:N:339:U:C4	2.57	0.72
1:I:116:A:C2	1:I:117:A:C8	2.76	0.72
1:I:187:A:C4	1:I:188:A:N7	2.58	0.72
1:I:249:A:C2	1:I:250:A:C8	2.76	0.72
2:J:137:A:C2	5:M:417:U:C2	2.77	0.72
3:K:159:A:O2'	3:K:160:A:H5'	1.89	0.72
3:K:174:A:C2'	3:K:175:A:H5'	2.19	0.72
4:L:474:U:C2'	4:L:475:U:H5'	2.19	0.72
4:L:541:U:H2'	4:L:542:U:C6	2.24	0.72
4:L:548:U:H2'	4:L:549:U:O4'	1.89	0.72
4:L:594:U:C2'	4:L:595:U:C5'	2.66	0.72
4:L:689:U:O2	4:L:690:U:C6	2.42	0.72
1:I:22:A:C2'	1:I:23:A:C5'	2.67	0.72
1:I:56:A:C2'	1:I:57:A:O5'	2.38	0.72
1:I:258:A:N3	1:I:259:A:C8	2.57	0.72
1:I:286:A:C4	1:I:287:A:C8	2.77	0.72
2:J:98:A:C2	2:J:99:A:C5	2.77	0.72
2:J:179:A:O2'	2:J:180:A:H5'	1.89	0.72
4:L:424:U:C2	4:L:425:U:C5	2.77	0.72
5:M:322:U:H2'	5:M:323:U:C5'	2.19	0.72
5:M:348:U:N1	5:M:349:U:C5	2.57	0.72
5:M:392:U:C2	5:M:393:U:C6	2.78	0.72
5:M:397:U:H2'	5:M:398:U:H6	1.54	0.72
5:M:463:U:C4	5:M:464:U:C5	2.76	0.72
5:M:491:U:C2	5:M:492:U:C6	2.76	0.72
6:N:365:U:O2	6:N:366:U:C6	2.43	0.72
6:N:394:U:C2'	6:N:395:U:O5'	2.37	0.72
6:N:424:U:C2	6:N:425:U:C6	2.77	0.72
6:N:426:U:C2'	6:N:427:U:C4'	2.68	0.72
6:N:502:U:O2'	6:N:503:U:H5'	1.90	0.72
1:I:55:A:C2	1:I:56:A:C4	2.77	0.72
1:I:67:A:N1	1:I:68:A:C6	2.57	0.72
1:I:402:A:H2'	1:I:403:A:H8	1.55	0.72
2:J:57:A:N3	2:J:58:A:C8	2.57	0.72
2:J:110:A:O2'	2:J:111:A:H5'	1.88	0.72
3:K:250:A:H2'	3:K:251:A:O5'	1.88	0.72
4:L:611:U:C2	4:L:612:U:C5	2.76	0.72
4:L:667:U:H2'	4:L:668:U:H6	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:730:U:O2'	4:L:731:U:C5'	2.37	0.72
4:L:776:U:H2'	4:L:777:U:H6	1.54	0.72
5:M:345:U:H2'	5:M:346:U:H6	1.54	0.72
5:M:370:U:C4	5:M:371:U:O4	2.42	0.72
5:M:377:U:C2	5:M:378:U:C6	2.78	0.72
5:M:454:U:H2'	5:M:455:U:H6	1.55	0.72
6:N:333:U:O2'	6:N:334:U:H5'	1.89	0.72
6:N:425:U:H2'	6:N:426:U:H6	1.01	0.72
6:N:462:U:C2'	6:N:463:U:C5'	2.68	0.72
6:N:469:U:C4	6:N:470:U:O4	2.42	0.72
1:I:4:A:C4	1:I:5:A:N7	2.58	0.72
1:I:103:A:C2	1:I:104:A:N9	2.56	0.72
1:I:106:A:C2'	1:I:107:A:O5'	2.36	0.72
1:I:177:A:H2'	1:I:178:A:H8	1.55	0.72
1:I:202:A:C2	1:I:203:A:C4	2.77	0.72
1:I:228:A:H2'	1:I:229:A:C8	2.24	0.72
1:I:237:A:C2'	1:I:238:A:C5'	2.68	0.72
1:I:249:A:C4	1:I:250:A:C8	2.77	0.72
1:I:251:A:C4	1:I:252:A:C8	2.78	0.72
1:I:263:A:N3	1:I:264:A:C8	2.57	0.72
1:I:271:A:C2	1:I:272:A:N9	2.58	0.72
1:I:281:A:C5	1:I:282:A:N7	2.58	0.72
1:I:334:A:C2'	1:I:335:A:C5'	2.67	0.72
1:I:402:A:H2'	1:I:403:A:C8	2.24	0.72
2:J:116:A:C2	2:J:117:A:N7	2.57	0.72
2:J:127:A:C2'	2:J:128:A:O5'	2.37	0.72
4:L:633:U:C2	4:L:634:U:C5	2.78	0.72
4:L:645:U:C2	4:L:646:U:H5	2.06	0.72
4:L:695:U:C2	4:L:696:U:C6	2.78	0.72
5:M:370:U:N3	5:M:371:U:C4	2.57	0.72
5:M:460:U:N3	5:M:461:U:C5	2.57	0.72
5:M:472:U:C2	5:M:473:U:C5	2.77	0.72
6:N:426:U:H2'	6:N:427:U:C6	2.22	0.72
1:I:151:A:O2'	1:I:152:A:C5'	2.35	0.72
1:I:237:A:C2'	1:I:238:A:H5'	2.20	0.72
1:I:271:A:N3	1:I:272:A:N7	2.36	0.72
1:I:327:A:N3	1:I:328:A:C8	2.56	0.72
2:J:26:A:C2	2:J:27:A:C4	2.78	0.72
2:J:85:A:C2	2:J:86:A:C8	2.77	0.72
2:J:176:A:H2'	2:J:177:A:H8	1.54	0.72
3:K:14:A:C3'	3:K:15:A:P	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:170:A:C2'	3:K:171:A:H5'	2.19	0.72
3:K:192:A:C6	3:K:193:A:C6	2.78	0.72
4:L:448:U:O2	4:L:449:U:C5	2.43	0.72
4:L:611:U:C2	4:L:612:U:C6	2.77	0.72
4:L:694:U:C4	4:L:695:U:C5	2.78	0.72
4:L:723:U:C2	4:L:724:U:C5	2.78	0.72
4:L:729:U:N3	4:L:730:U:C5	2.56	0.72
4:L:766:U:C2'	4:L:767:U:O4'	2.37	0.72
4:L:770:U:C4	4:L:771:U:O4	2.43	0.72
5:M:451:U:N3	5:M:452:U:C5	2.58	0.72
5:M:472:U:H2'	5:M:473:U:C6	2.24	0.72
5:M:520:U:H2'	5:M:521:U:H6	1.53	0.72
5:M:530:U:C2	5:M:531:U:C6	2.76	0.72
6:N:338:U:C2'	6:N:339:U:H6	2.02	0.72
6:N:384:U:H2'	6:N:385:U:C6	2.25	0.72
6:N:401:U:C2'	6:N:402:U:C5'	2.67	0.72
1:I:127:A:H2'	1:I:128:A:O4'	1.90	0.72
1:I:231:A:C2'	1:I:232:A:C5'	2.68	0.72
2:J:66:A:C2	2:J:67:A:C8	2.78	0.72
3:K:41:A:HO2'	3:K:42:A:H5'	1.51	0.72
3:K:141:A:H2'	3:K:142:A:H8	1.53	0.72
3:K:151:A:N3	3:K:152:A:C8	2.58	0.72
4:L:466:U:C2	4:L:467:U:C6	2.78	0.72
4:L:564:U:O2'	4:L:565:U:C5'	2.32	0.72
4:L:642:U:H2'	4:L:643:U:C5'	2.18	0.72
4:L:689:U:C2	4:L:690:U:C5	2.78	0.72
4:L:706:U:O4	4:L:707:U:O4	2.07	0.72
4:L:745:U:O2	4:L:746:U:C6	2.43	0.72
4:L:767:U:C2	4:L:768:U:C4	2.77	0.72
5:M:504:U:H2'	5:M:505:U:H6	1.53	0.72
5:M:515:U:C2'	5:M:516:U:H5'	2.18	0.72
6:N:278:U:C4	6:N:279:U:C5	2.78	0.72
6:N:418:U:O4	6:N:419:U:O4	2.08	0.72
1:I:237:A:H2'	1:I:238:A:C8	2.25	0.72
1:I:287:A:O2'	1:I:288:A:O4'	2.08	0.72
2:J:116:A:N3	2:J:117:A:N7	2.37	0.72
2:J:226:A:C2	2:J:227:A:C8	2.78	0.72
2:J:265:A:H2'	2:J:266:A:H8	1.54	0.72
3:K:131:A:C6	3:K:132:A:N6	2.57	0.72
3:K:228:A:H2'	3:K:229:A:H8	1.55	0.72
4:L:463:U:C2'	4:L:464:U:C5'	2.67	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:501:U:O2'	4:L:502:U:P	2.44	0.72
4:L:645:U:C4	4:L:646:U:O4	2.42	0.72
4:L:813:U:N3	4:L:814:U:C4	2.57	0.72
4:L:821:U:C2'	4:L:822:U:H5'	2.18	0.72
5:M:410:U:C2	5:M:411:U:C6	2.77	0.72
5:M:512:U:C2'	5:M:513:U:H5'	2.20	0.72
6:N:425:U:O2'	6:N:426:U:C5'	2.36	0.72
1:I:94:A:HO2'	1:I:95:A:H5'	1.53	0.72
1:I:110:A:H2'	1:I:111:A:C8	2.25	0.72
1:I:248:A:C2	1:I:249:A:C5	2.77	0.72
1:I:258:A:C2	1:I:259:A:N9	2.58	0.72
2:J:103:A:C2'	2:J:104:A:C5'	2.64	0.72
2:J:119:A:H61	2:J:120:A:N6	1.84	0.72
3:K:45:A:O2'	3:K:46:A:O4'	2.07	0.72
3:K:212:A:N6	3:K:213:A:H61	1.88	0.72
3:K:250:A:H2'	3:K:251:A:C5'	2.19	0.72
4:L:728:U:H2'	4:L:729:U:C6	2.25	0.72
5:M:376:U:O2	5:M:377:U:C1'	2.38	0.72
5:M:491:U:H2'	5:M:492:U:H6	1.55	0.72
5:M:495:U:C2'	5:M:496:U:H5'	2.19	0.72
6:N:280:U:H2'	6:N:281:U:C5'	2.20	0.72
6:N:306:U:H2'	6:N:307:U:H6	1.53	0.72
1:I:13:A:C6	1:I:14:A:C5	2.78	0.72
1:I:37:A:O2'	1:I:38:A:H5'	1.90	0.72
1:I:62:A:H2'	1:I:63:A:O5'	1.87	0.72
1:I:270:A:C2'	1:I:271:A:C4'	2.66	0.72
1:I:275:A:O2'	1:I:276:A:H5'	1.90	0.72
1:I:306:A:C2'	1:I:307:A:O5'	2.38	0.72
1:I:350:A:O2'	1:I:351:A:H5'	1.90	0.72
2:J:55:A:C6	2:J:56:A:C5	2.77	0.72
2:J:183:A:C4	2:J:184:A:C8	2.77	0.72
3:K:104:A:H2'	3:K:105:A:H8	1.54	0.72
3:K:253:A:H2'	3:K:254:A:O4'	1.90	0.72
4:L:436:U:O2'	4:L:437:U:C4'	2.38	0.72
4:L:504:U:C2'	4:L:505:U:C5'	2.68	0.72
4:L:604:U:H2'	4:L:605:U:C5'	2.19	0.72
4:L:681:U:C2'	4:L:682:U:H6	2.01	0.72
4:L:734:U:H2'	4:L:735:U:O4'	1.88	0.72
4:L:799:U:O2	4:L:800:U:C6	2.43	0.72
5:M:377:U:C2'	5:M:378:U:C5'	2.68	0.72
5:M:481:U:H2'	5:M:482:U:H6	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:375:U:N3	6:N:376:U:C4	2.58	0.72
1:I:18:A:H2'	1:I:19:A:O4'	1.90	0.71
1:I:109:A:C2	1:I:110:A:N9	2.57	0.71
1:I:120:A:N3	1:I:121:A:C8	2.58	0.71
1:I:174:A:HO2'	1:I:175:A:H5'	1.54	0.71
1:I:286:A:N6	1:I:287:A:H62	1.87	0.71
2:J:82:A:O2'	2:J:83:A:H5'	1.89	0.71
3:K:45:A:C3'	3:K:46:A:H5'	2.20	0.71
3:K:62:A:C6	3:K:63:A:N6	2.57	0.71
3:K:88:A:C2	3:K:89:A:C5	2.78	0.71
4:L:704:U:H2'	4:L:705:U:C5'	2.20	0.71
4:L:762:U:HO2'	4:L:763:U:H5'	1.53	0.71
4:L:787:U:O2'	4:L:788:U:H5'	1.90	0.71
4:L:813:U:N3	4:L:814:U:C5	2.58	0.71
5:M:486:U:H2'	5:M:487:U:O5'	1.89	0.71
5:M:519:U:C2	5:M:520:U:C6	2.78	0.71
6:N:312:U:H2'	6:N:313:U:H6	1.54	0.71
6:N:408:U:H2'	6:N:409:U:H6	1.55	0.71
6:N:433:U:C2	6:N:434:U:C5	2.78	0.71
6:N:443:U:C2	6:N:444:U:C5	2.77	0.71
1:I:248:A:C2'	1:I:249:A:H5'	2.19	0.71
1:I:268:A:N3	1:I:269:A:C1'	2.53	0.71
1:I:270:A:C6	1:I:271:A:C5	2.77	0.71
2:J:107:A:C2'	2:J:108:A:C5'	2.67	0.71
3:K:100:A:H2'	3:K:101:A:C4'	2.20	0.71
3:K:137:A:C2'	3:K:138:A:H5'	2.21	0.71
4:L:503:U:O2'	4:L:504:U:H5'	1.91	0.71
4:L:544:U:O2'	4:L:545:U:H5'	1.90	0.71
4:L:586:U:O4	4:L:587:U:O4	2.05	0.71
4:L:600:U:H2'	4:L:601:U:C6	2.25	0.71
4:L:648:U:C2	4:L:649:U:C5	2.78	0.71
4:L:674:U:H2'	4:L:675:U:O4'	1.90	0.71
4:L:815:U:O2'	4:L:816:U:C5'	2.20	0.71
5:M:434:U:O2'	5:M:435:U:H5'	1.90	0.71
6:N:325:U:H2'	6:N:326:U:C6	2.25	0.71
6:N:337:U:H2'	6:N:338:U:C6	2.25	0.71
6:N:442:U:H2'	6:N:443:U:C5'	2.16	0.71
6:N:497:U:C3'	6:N:498:U:C5'	2.46	0.71
1:I:41:A:C2	1:I:42:A:C8	2.79	0.71
1:I:69:A:H2'	1:I:70:A:C5'	2.19	0.71
1:I:106:A:C4	1:I:107:A:C8	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:112:A:O2'	1:I:113:A:C5'	2.37	0.71
1:I:191:A:H2'	1:I:192:A:O4'	1.90	0.71
1:I:279:A:C2	1:I:280:A:N9	2.58	0.71
2:J:56:A:C4	2:J:57:A:C8	2.78	0.71
2:J:66:A:C2'	2:J:67:A:H5'	2.19	0.71
2:J:129:A:C4	2:J:130:A:C8	2.78	0.71
2:J:160:A:C3'	2:J:161:A:C5'	2.44	0.71
3:K:199:A:H2'	3:K:200:A:H8	1.51	0.71
3:K:220:A:H2'	3:K:221:A:H8	1.54	0.71
4:L:575:U:O2	4:L:576:U:C6	2.43	0.71
4:L:622:U:H2'	4:L:623:U:O5'	1.90	0.71
4:L:756:U:O2'	4:L:757:U:H5'	1.90	0.71
4:L:758:U:H2'	4:L:759:U:H6	1.56	0.71
4:L:766:U:C2	4:L:767:U:C6	2.78	0.71
5:M:319:U:C2'	5:M:320:U:O5'	2.37	0.71
5:M:349:U:H2'	5:M:350:U:C5'	2.21	0.71
5:M:387:U:O2'	5:M:388:U:P	2.47	0.71
5:M:456:U:O2'	5:M:457:U:H5'	1.90	0.71
6:N:496:U:H2'	6:N:497:U:C6	2.25	0.71
1:I:30:A:C2	1:I:31:A:C8	2.78	0.71
1:I:45:A:N3	1:I:46:A:C8	2.58	0.71
1:I:94:A:H2'	1:I:95:A:H8	1.55	0.71
1:I:183:A:N3	1:I:184:A:N9	2.39	0.71
1:I:227:A:HO2'	1:I:228:A:H5'	1.54	0.71
1:I:248:A:H2'	1:I:249:A:O5'	1.90	0.71
1:I:272:A:C4	1:I:273:A:N7	2.58	0.71
1:I:334:A:C2	4:L:492:U:C2	2.78	0.71
2:J:25:A:C2	2:J:26:A:C5	2.79	0.71
2:J:71:A:C6	2:J:72:A:N6	2.57	0.71
2:J:117:A:C4	2:J:118:A:C8	2.78	0.71
2:J:127:A:C2	2:J:128:A:C4	2.77	0.71
2:J:136:A:H2	2:J:137:A:N3	1.87	0.71
2:J:182:A:N6	2:J:183:A:C6	2.59	0.71
2:J:193:A:O2'	2:J:194:A:H5'	1.89	0.71
2:J:217:A:H2'	2:J:218:A:C8	2.26	0.71
2:J:219:A:H2'	2:J:220:A:C5'	2.19	0.71
3:K:44:A:H2'	3:K:45:A:H8	1.55	0.71
3:K:49:A:C2	3:K:50:A:C8	2.78	0.71
3:K:173:A:C2'	3:K:174:A:H5'	2.19	0.71
4:L:658:U:HO2'	4:L:659:U:H5'	1.53	0.71
4:L:791:U:O2'	4:L:792:U:C5'	2.35	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:347:U:HO2'	5:M:348:U:H5'	0.90	0.71
5:M:423:U:C2	5:M:424:U:C5	2.77	0.71
6:N:423:U:C2'	6:N:424:U:C5'	2.68	0.71
6:N:487:U:O4	6:N:488:U:O4	2.08	0.71
1:I:58:A:N6	1:I:59:A:N6	2.39	0.71
1:I:163:A:C2'	1:I:164:A:C5'	2.69	0.71
1:I:174:A:C2	1:I:175:A:C8	2.78	0.71
1:I:230:A:C2	1:I:231:A:C4	2.78	0.71
1:I:283:A:N1	1:I:284:A:C6	2.59	0.71
1:I:284:A:C2	1:I:285:A:N9	2.58	0.71
1:I:317:A:C2'	1:I:318:A:C5'	2.65	0.71
2:J:176:A:O2'	2:J:177:A:O5'	2.09	0.71
2:J:224:A:C2	2:J:225:A:C8	2.78	0.71
3:K:18:A:N6	3:K:19:A:N6	2.38	0.71
3:K:105:A:C6	3:K:106:A:N6	2.58	0.71
3:K:106:A:C4	3:K:107:A:C8	2.79	0.71
4:L:563:U:C2'	4:L:564:U:H6	1.93	0.71
4:L:601:U:C2	4:L:602:U:C6	2.78	0.71
4:L:742:U:O2	4:L:743:U:C6	2.42	0.71
5:M:525:U:HO2'	5:M:526:U:H5'	1.56	0.71
5:M:543:U:H2'	5:M:544:U:H6	1.56	0.71
6:N:352:U:O2'	6:N:353:U:H5'	1.91	0.71
6:N:425:U:O2'	6:N:426:U:C4'	2.38	0.71
6:N:452:U:O2'	6:N:453:U:H5'	1.90	0.71
6:N:490:U:N3	6:N:491:U:C5	2.59	0.71
1:I:55:A:C2	1:I:56:A:N9	2.58	0.71
1:I:231:A:C6	1:I:232:A:N7	2.58	0.71
1:I:244:A:O2'	1:I:245:A:C5'	2.37	0.71
1:I:251:A:H2'	1:I:252:A:O4'	1.89	0.71
1:I:270:A:C3'	1:I:271:A:H5'	2.05	0.71
1:I:300:A:N3	1:I:301:A:C8	2.59	0.71
1:I:315:A:H2'	1:I:316:A:O4'	1.91	0.71
1:I:336:A:O2'	1:I:337:A:C5'	2.34	0.71
2:J:58:A:N3	2:J:59:A:C8	2.59	0.71
2:J:159:A:C5	2:J:160:A:N7	2.59	0.71
3:K:146:A:C2	3:K:147:A:N7	2.58	0.71
3:K:165:A:C2	3:K:166:A:N9	2.59	0.71
4:L:477:U:H2'	4:L:478:U:O5'	1.91	0.71
4:L:517:U:H2'	4:L:518:U:C5'	2.19	0.71
4:L:557:U:H2'	4:L:558:U:C4'	2.19	0.71
4:L:562:U:C2	4:L:563:U:C5	2.79	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:585:U:C2	4:L:586:U:C6	2.79	0.71
4:L:603:U:C2'	4:L:604:U:C5'	2.68	0.71
4:L:699:U:N3	4:L:700:U:C5	2.59	0.71
4:L:786:U:O2'	4:L:787:U:P	2.48	0.71
4:L:813:U:C4	4:L:814:U:O4	2.43	0.71
5:M:319:U:C2	5:M:320:U:C6	2.79	0.71
5:M:405:U:H2'	5:M:406:U:H6	1.56	0.71
5:M:546:U:C2	5:M:547:U:C5	2.79	0.71
6:N:449:U:C2	6:N:450:U:C6	2.79	0.71
6:N:484:U:O2'	6:N:485:U:O4'	2.09	0.71
1:I:64:A:O2'	1:I:65:A:C5'	2.33	0.71
1:I:136:A:C2	1:I:137:A:C8	2.78	0.71
1:I:141:A:H2'	1:I:142:A:H8	1.53	0.71
1:I:178:A:C2'	1:I:179:A:C5'	2.68	0.71
2:J:32:A:C2'	2:J:33:A:C5'	2.69	0.71
2:J:94:A:H2'	2:J:95:A:O5'	1.89	0.71
2:J:117:A:O2'	2:J:118:A:P	2.48	0.71
2:J:210:A:C4	2:J:211:A:C8	2.79	0.71
3:K:63:A:HO2'	3:K:64:A:H5'	1.53	0.71
3:K:100:A:C5	3:K:101:A:N7	2.59	0.71
3:K:110:A:H2'	3:K:111:A:O4'	1.91	0.71
3:K:181:A:O2'	3:K:182:A:P	2.47	0.71
4:L:489:U:O4	4:L:490:U:O4	2.09	0.71
4:L:491:U:C2	4:L:492:U:C6	2.78	0.71
4:L:722:U:HO2'	4:L:723:U:C5'	2.03	0.71
4:L:767:U:C2'	4:L:768:U:H6	2.03	0.71
5:M:288:U:C2	5:M:289:U:C6	2.78	0.71
5:M:299:U:C2	5:M:300:U:C5	2.78	0.71
5:M:367:U:C2	5:M:368:U:C5	2.78	0.71
5:M:455:U:H2'	5:M:456:U:O4'	1.90	0.71
5:M:516:U:C2	5:M:517:U:C5	2.79	0.71
5:M:544:U:C2'	5:M:545:U:C5'	2.69	0.71
6:N:425:U:N1	6:N:426:U:C5	2.57	0.71
6:N:433:U:H2'	6:N:434:U:C6	2.25	0.71
1:I:111:A:H2'	1:I:112:A:H8	1.55	0.71
1:I:250:A:C2'	1:I:251:A:C8	2.72	0.71
1:I:298:A:O2'	1:I:299:A:H5'	1.91	0.71
1:I:373:A:C6	1:I:374:A:N6	2.59	0.71
1:I:402:A:O2'	1:I:403:A:H5'	1.90	0.71
2:J:45:A:C2	2:J:46:A:C8	2.79	0.71
2:J:73:A:C2	2:J:74:A:C8	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:88:A:N6	6:N:444:U:O4	2.24	0.71
3:K:94:A:H2'	3:K:95:A:H8	1.55	0.71
3:K:152:A:C5	3:K:153:A:N7	2.59	0.71
3:K:191:A:H2'	3:K:192:A:H8	1.55	0.71
3:K:209:A:H2'	3:K:210:A:C8	2.25	0.71
3:K:254:A:C2'	3:K:255:A:C5'	2.68	0.71
4:L:472:U:H2'	4:L:473:U:C6	2.25	0.71
4:L:564:U:C2	4:L:565:U:C6	2.78	0.71
4:L:564:U:C2'	4:L:565:U:H5'	2.19	0.71
4:L:566:U:H2'	4:L:567:U:C5'	2.21	0.71
4:L:571:U:N3	4:L:572:U:C4	2.59	0.71
4:L:599:U:C4	4:L:600:U:C4	2.79	0.71
4:L:672:U:N3	4:L:673:U:C4	2.59	0.71
5:M:288:U:C2	5:M:289:U:C5	2.77	0.71
5:M:369:U:H2'	5:M:370:U:O5'	1.90	0.71
6:N:281:U:H2'	6:N:282:U:O5'	1.90	0.71
6:N:349:U:C2	6:N:350:U:C6	2.79	0.71
6:N:395:U:C2	6:N:396:U:C6	2.79	0.71
1:I:19:A:O2'	1:I:20:A:H5'	1.91	0.71
1:I:21:A:O2'	1:I:22:A:H5'	1.91	0.71
1:I:26:A:C4	1:I:27:A:C8	2.79	0.71
1:I:137:A:C5	1:I:138:A:N7	2.59	0.71
1:I:239:A:C2'	1:I:240:A:O5'	2.38	0.71
1:I:259:A:C2'	1:I:260:A:C5'	2.69	0.71
1:I:387:A:H2'	1:I:388:A:O4'	1.90	0.71
2:J:59:A:O2'	2:J:60:A:H5'	1.90	0.71
2:J:99:A:O2'	2:J:100:A:O4'	2.08	0.71
2:J:183:A:C2	2:J:184:A:C8	2.79	0.71
2:J:188:A:C2	2:J:189:A:C5	2.78	0.71
2:J:214:A:N3	2:J:215:A:C8	2.58	0.71
4:L:507:U:C2'	4:L:508:U:O5'	2.38	0.71
4:L:543:U:N3	4:L:544:U:C4	2.59	0.71
4:L:565:U:N3	4:L:566:U:C5	2.59	0.71
4:L:599:U:N3	4:L:600:U:C5	2.59	0.71
4:L:666:U:C2	4:L:667:U:C5	2.79	0.71
4:L:744:U:C2	4:L:745:U:C5	2.79	0.71
5:M:428:U:O2'	5:M:429:U:C4'	2.37	0.71
5:M:435:U:C2	5:M:436:U:C5	2.79	0.71
5:M:515:U:O2'	5:M:516:U:C5'	2.31	0.71
6:N:408:U:O2'	6:N:409:U:H5'	1.91	0.71
6:N:488:U:H2'	6:N:489:U:H6	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:72:A:C5	1:I:73:A:N7	2.59	0.71
1:I:73:A:H2'	1:I:74:A:C4'	2.15	0.71
1:I:213:A:O2'	1:I:214:A:H5'	1.90	0.71
1:I:405:A:C6	1:I:406:A:N6	2.58	0.71
2:J:51:A:C2'	2:J:52:A:H8	2.04	0.71
2:J:157:A:HO2'	2:J:158:A:H5'	1.56	0.71
2:J:225:A:C2	2:J:226:A:C5	2.78	0.71
3:K:99:A:O2'	3:K:100:A:C4'	2.39	0.71
3:K:121:A:C6	3:K:122:A:N7	2.58	0.71
3:K:150:A:C2	3:K:151:A:N7	2.58	0.71
4:L:447:U:C3'	4:L:448:U:P	2.79	0.71
4:L:458:U:O2'	4:L:459:U:H5'	1.91	0.71
4:L:500:U:C2	4:L:501:U:C6	2.79	0.71
4:L:566:U:C2	4:L:567:U:C6	2.79	0.71
4:L:706:U:C2	4:L:707:U:C5	2.79	0.71
4:L:744:U:N3	4:L:745:U:C5	2.59	0.71
4:L:751:U:C2	4:L:752:U:C5	2.79	0.71
5:M:348:U:O4	5:M:349:U:O4	2.06	0.71
5:M:488:U:C2'	5:M:489:U:H6	2.03	0.71
5:M:512:U:C2	5:M:513:U:C5	2.78	0.71
5:M:527:U:C2	5:M:528:U:C5	2.78	0.71
6:N:326:U:C2	6:N:327:U:C5	2.78	0.71
6:N:473:U:N3	6:N:474:U:C4	2.59	0.71
6:N:486:U:C2'	6:N:487:U:O4'	2.38	0.71
6:N:496:U:H2'	6:N:497:U:H6	1.56	0.71
1:I:60:A:N6	1:I:61:A:N6	2.38	0.70
1:I:74:A:O2'	1:I:75:A:C4'	2.39	0.70
1:I:143:A:C2'	1:I:144:A:H8	2.01	0.70
1:I:240:A:C4	1:I:241:A:C8	2.79	0.70
1:I:338:A:N6	1:I:339:A:H62	1.88	0.70
2:J:99:A:C4	2:J:100:A:C8	2.79	0.70
2:J:123:A:H2'	2:J:124:A:C8	2.25	0.70
2:J:203:A:H2'	2:J:204:A:H8	1.55	0.70
3:K:47:A:C5	3:K:48:A:N7	2.58	0.70
3:K:102:A:C2	3:K:103:A:C5	2.79	0.70
3:K:167:A:N6	3:K:168:A:C6	2.59	0.70
3:K:220:A:H2'	3:K:221:A:C8	2.26	0.70
4:L:437:U:O2	4:L:438:U:C5	2.44	0.70
4:L:581:U:H2'	4:L:582:U:C6	2.26	0.70
4:L:612:U:O2'	4:L:613:U:C5'	2.29	0.70
4:L:746:U:H2'	4:L:747:U:O5'	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:322:U:H2'	5:M:323:U:H6	1.56	0.70
5:M:379:U:C2'	5:M:380:U:H6	1.98	0.70
5:M:405:U:H2'	5:M:406:U:C4'	2.19	0.70
5:M:451:U:O4	5:M:452:U:O4	2.08	0.70
5:M:499:U:O2'	5:M:500:U:H5'	1.91	0.70
5:M:505:U:C2'	5:M:506:U:O5'	2.39	0.70
5:M:525:U:H2'	5:M:526:U:C5'	2.20	0.70
6:N:484:U:HO3'	6:N:485:U:P	2.14	0.70
6:N:487:U:C2	6:N:488:U:C5	2.79	0.70
6:N:490:U:C2	6:N:491:U:C5	2.78	0.70
1:I:9:A:C2	1:I:10:A:C8	2.79	0.70
1:I:46:A:C2	1:I:47:A:C8	2.76	0.70
1:I:64:A:H2'	1:I:65:A:O4'	1.90	0.70
1:I:95:A:C6	1:I:96:A:C6	2.79	0.70
1:I:203:A:O2'	1:I:204:A:H5'	1.90	0.70
1:I:240:A:N1	1:I:241:A:C5	2.59	0.70
1:I:257:A:C2	1:I:258:A:N9	2.59	0.70
1:I:260:A:H2'	1:I:261:A:C5'	2.20	0.70
1:I:267:A:C2	4:L:559:U:C2	2.79	0.70
1:I:323:A:C4	1:I:324:A:C8	2.79	0.70
1:I:386:A:C5	1:I:387:A:N7	2.60	0.70
2:J:30:A:C2'	2:J:31:A:C5'	2.69	0.70
2:J:54:A:C2	2:J:55:A:C4	2.78	0.70
2:J:94:A:N3	2:J:95:A:C8	2.59	0.70
2:J:117:A:C2'	2:J:118:A:O5'	2.39	0.70
2:J:187:A:C2	2:J:188:A:C8	2.78	0.70
2:J:215:A:O2'	2:J:216:A:C5'	2.38	0.70
2:J:265:A:H2	2:J:266:A:C4	2.09	0.70
3:K:118:A:C2	3:K:119:A:C8	2.79	0.70
3:K:135:A:O2'	3:K:136:A:P	2.49	0.70
3:K:250:A:C2	3:K:251:A:C8	2.78	0.70
4:L:517:U:O2'	4:L:518:U:C5'	2.31	0.70
4:L:572:U:C2	4:L:573:U:C6	2.80	0.70
4:L:690:U:C4	4:L:691:U:C5	2.78	0.70
4:L:792:U:H2'	4:L:793:U:H6	1.56	0.70
4:L:802:U:C2'	4:L:803:U:C5'	2.69	0.70
5:M:323:U:H2'	5:M:324:U:C4'	1.99	0.70
5:M:327:U:O2'	5:M:328:U:H5'	1.91	0.70
5:M:530:U:H2'	5:M:531:U:C4'	2.21	0.70
6:N:401:U:H2'	6:N:402:U:H6	1.54	0.70
6:N:435:U:C2	6:N:436:U:C5	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:156:A:C6	1:I:157:A:C6	2.78	0.70
1:I:231:A:H2'	1:I:232:A:O4'	1.91	0.70
1:I:278:A:O2'	1:I:279:A:C5'	2.38	0.70
2:J:122:A:N6	2:J:123:A:H61	1.87	0.70
2:J:161:A:H2'	2:J:162:A:O5'	1.90	0.70
2:J:219:A:C2	2:J:220:A:C4	2.80	0.70
4:L:488:U:H2'	4:L:489:U:H6	1.54	0.70
4:L:508:U:N3	4:L:509:U:C4	2.59	0.70
4:L:544:U:N3	4:L:545:U:C5	2.59	0.70
4:L:596:U:N3	4:L:597:U:C4	2.59	0.70
4:L:641:U:C2	4:L:642:U:C6	2.79	0.70
4:L:642:U:HO2'	4:L:643:U:H5'	1.54	0.70
4:L:646:U:H2'	4:L:647:U:H6	1.56	0.70
4:L:738:U:C2	4:L:739:U:H5	2.09	0.70
4:L:761:U:N3	4:L:762:U:C4	2.59	0.70
4:L:794:U:H2'	4:L:795:U:O5'	1.90	0.70
4:L:800:U:C2	4:L:801:U:C5	2.79	0.70
5:M:314:U:C3'	5:M:315:U:P	2.79	0.70
5:M:337:U:N3	5:M:338:U:C5	2.60	0.70
5:M:409:U:O2	5:M:410:U:N1	2.24	0.70
5:M:433:U:C4	5:M:434:U:C5	2.79	0.70
5:M:497:U:H2'	5:M:498:U:C6	2.26	0.70
5:M:517:U:O2'	5:M:518:U:H5'	1.90	0.70
6:N:320:U:H2'	6:N:321:U:C6	2.26	0.70
6:N:484:U:C3'	6:N:485:U:P	2.79	0.70
1:I:54:A:C4	1:I:55:A:N7	2.59	0.70
1:I:73:A:N3	1:I:74:A:N9	2.40	0.70
1:I:75:A:C4	1:I:76:A:C8	2.79	0.70
1:I:242:A:C4	1:I:243:A:C8	2.80	0.70
1:I:272:A:C6	1:I:273:A:C6	2.79	0.70
1:I:280:A:O2'	1:I:281:A:P	2.49	0.70
2:J:69:A:C2	2:J:70:A:C4	2.80	0.70
2:J:143:A:C2	2:J:144:A:C1'	2.74	0.70
2:J:203:A:C2	2:J:204:A:C5	2.80	0.70
2:J:204:A:C5	2:J:205:A:C5	2.79	0.70
2:J:225:A:C4	2:J:226:A:C8	2.79	0.70
3:K:106:A:C2'	3:K:107:A:H8	2.02	0.70
3:K:218:A:H2'	3:K:219:A:C8	2.27	0.70
3:K:238:A:H2'	3:K:239:A:C8	2.26	0.70
4:L:572:U:H2'	4:L:573:U:O5'	1.90	0.70
4:L:595:U:H2'	4:L:596:U:C6	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:762:U:C2'	4:L:763:U:O5'	2.40	0.70
6:N:425:U:C4	6:N:426:U:O4	2.45	0.70
6:N:489:U:H2'	6:N:490:U:H6	1.55	0.70
6:N:526:U:H2'	6:N:527:U:H6	1.56	0.70
1:I:163:A:C2'	1:I:164:A:H5'	2.18	0.70
1:I:273:A:H2'	1:I:274:A:C4'	2.22	0.70
1:I:286:A:C4	1:I:287:A:N7	2.59	0.70
1:I:327:A:C2	1:I:328:A:C5	2.79	0.70
1:I:376:A:N3	1:I:377:A:C8	2.59	0.70
2:J:27:A:C2	2:J:28:A:C8	2.78	0.70
2:J:37:A:N3	2:J:38:A:C8	2.60	0.70
2:J:83:A:O2'	2:J:84:A:C5'	2.39	0.70
2:J:159:A:C4	2:J:160:A:N7	2.59	0.70
2:J:161:A:C2	2:J:162:A:C4	2.79	0.70
2:J:264:A:H2'	2:J:265:A:H8	1.57	0.70
3:K:100:A:N1	3:K:101:A:C5	2.60	0.70
3:K:105:A:C5	3:K:106:A:N7	2.59	0.70
3:K:120:A:N6	3:K:121:A:C6	2.58	0.70
3:K:125:A:C2	3:K:126:A:C4	2.80	0.70
3:K:249:A:O2'	3:K:250:A:C5'	2.32	0.70
4:L:516:U:C2'	4:L:517:U:H5'	2.21	0.70
4:L:531:U:C4	4:L:532:U:C5	2.80	0.70
4:L:546:U:O2'	4:L:547:U:O4'	2.09	0.70
4:L:587:U:C2'	4:L:588:U:O4'	2.40	0.70
4:L:634:U:H2'	4:L:635:U:H6	1.56	0.70
4:L:713:U:O2'	4:L:714:U:H5'	1.76	0.70
4:L:723:U:O4	4:L:724:U:C4	2.32	0.70
4:L:780:U:C2	4:L:781:U:C6	2.80	0.70
5:M:410:U:C4	5:M:411:U:C5	2.78	0.70
5:M:448:U:H2'	5:M:449:U:O5'	1.91	0.70
6:N:296:U:C2	6:N:297:U:C5	2.80	0.70
6:N:362:U:H2'	6:N:363:U:H6	1.57	0.70
6:N:439:U:H2'	6:N:440:U:H6	1.57	0.70
1:I:78:A:C2'	1:I:79:A:O5'	2.34	0.70
1:I:84:A:N3	1:I:85:A:C8	2.60	0.70
1:I:162:A:C4	1:I:163:A:N7	2.59	0.70
1:I:225:A:N6	1:I:226:A:N6	2.39	0.70
1:I:401:A:N6	1:I:402:A:N6	2.39	0.70
2:J:21:A:HO2'	2:J:22:A:H5'	1.56	0.70
2:J:34:A:C2	2:J:35:A:C5	2.80	0.70
2:J:123:A:C2'	2:J:124:A:C5'	2.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:125:A:N6	2:J:126:A:H62	1.88	0.70
3:K:96:A:C2	3:K:97:A:C4	2.80	0.70
4:L:498:U:C2	4:L:499:U:C6	2.80	0.70
4:L:524:U:C2'	4:L:525:U:H5'	2.22	0.70
4:L:717:U:O4	4:L:718:U:O4	2.09	0.70
4:L:718:U:H2'	4:L:719:U:C6	2.20	0.70
5:M:290:U:O2'	5:M:291:U:C5'	2.37	0.70
5:M:364:U:C2'	5:M:365:U:C5'	2.69	0.70
5:M:457:U:H2'	5:M:458:U:O4'	1.92	0.70
5:M:463:U:H2'	5:M:464:U:C5'	2.21	0.70
5:M:490:U:O2'	5:M:491:U:H5'	1.91	0.70
6:N:487:U:N3	6:N:488:U:C4	2.59	0.70
1:I:55:A:C2'	1:I:56:A:C5'	2.69	0.70
1:I:71:A:C4	1:I:72:A:C8	2.80	0.70
1:I:111:A:H2'	1:I:112:A:C8	2.26	0.70
1:I:120:A:C2'	1:I:121:A:H5'	2.22	0.70
1:I:256:A:C5	1:I:257:A:N7	2.60	0.70
1:I:330:A:O2'	1:I:331:A:C5'	2.31	0.70
1:I:403:A:O2'	1:I:404:A:O4'	2.09	0.70
2:J:72:A:C4	2:J:73:A:C8	2.79	0.70
2:J:128:A:C2'	2:J:129:A:C5'	2.68	0.70
2:J:140:A:C2'	2:J:141:A:H5'	2.21	0.70
2:J:188:A:N3	2:J:189:A:C8	2.60	0.70
2:J:204:A:C2'	2:J:205:A:H8	2.03	0.70
3:K:34:A:H2'	3:K:35:A:H8	1.55	0.70
3:K:87:A:C6	3:K:88:A:N7	2.60	0.70
3:K:138:A:N3	3:K:139:A:C8	2.59	0.70
4:L:496:U:C2	4:L:497:U:C6	2.80	0.70
4:L:557:U:C2	4:L:558:U:C5	2.79	0.70
4:L:572:U:H2'	4:L:573:U:H6	1.55	0.70
4:L:757:U:N1	4:L:758:U:C5	2.59	0.70
4:L:811:U:C2'	4:L:812:U:C6	2.69	0.70
5:M:310:U:O2'	5:M:311:U:H5'	1.90	0.70
5:M:393:U:C4	5:M:394:U:O4	2.44	0.70
5:M:454:U:N3	5:M:455:U:C4	2.60	0.70
6:N:323:U:H2'	6:N:324:U:C6	2.27	0.70
6:N:333:U:C2'	6:N:334:U:O4'	2.39	0.70
6:N:388:U:O2'	6:N:389:U:C5'	2.39	0.70
6:N:487:U:C4	6:N:488:U:C4	2.79	0.70
1:I:17:A:C2	1:I:18:A:C5	2.79	0.70
1:I:45:A:C2	1:I:46:A:C8	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:69:A:N3	1:I:70:A:C8	2.59	0.70
1:I:73:A:HO2'	1:I:74:A:C4'	1.88	0.70
1:I:81:A:H2'	1:I:82:A:O5'	1.89	0.70
1:I:190:A:C2'	1:I:191:A:C5'	2.70	0.70
1:I:191:A:C2'	1:I:192:A:C5'	2.70	0.70
1:I:240:A:N3	1:I:241:A:N7	2.38	0.70
1:I:253:A:H2'	1:I:254:A:H8	1.56	0.70
1:I:372:A:C2'	1:I:373:A:C5'	2.68	0.70
2:J:28:A:C6	2:J:29:A:N7	2.60	0.70
2:J:44:A:C2'	2:J:45:A:C5'	2.68	0.70
2:J:123:A:C2'	2:J:124:A:O4'	2.40	0.70
2:J:143:A:N3	2:J:144:A:C1'	2.54	0.70
2:J:166:A:O2'	2:J:167:A:C5'	2.39	0.70
3:K:42:A:C2'	3:K:43:A:C5'	2.69	0.70
3:K:130:A:C2'	3:K:131:A:C5'	2.70	0.70
4:L:637:U:C4	4:L:638:U:C4	2.80	0.70
4:L:760:U:H2'	4:L:761:U:C6	2.27	0.70
4:L:777:U:H2'	4:L:778:U:C5'	2.20	0.70
5:M:348:U:C2	5:M:349:U:C6	2.79	0.70
5:M:349:U:C2	5:M:350:U:C5	2.80	0.70
5:M:494:U:O2	5:M:495:U:C6	2.44	0.70
5:M:498:U:O2	5:M:499:U:C6	2.45	0.70
6:N:422:U:H2'	6:N:423:U:H6	1.57	0.70
6:N:437:U:C2	6:N:438:U:C5	2.80	0.70
1:I:334:A:C4	1:I:335:A:C8	2.80	0.70
2:J:89:A:C4	2:J:90:A:N7	2.59	0.70
2:J:222:A:C2	2:J:223:A:C4	2.80	0.70
2:J:225:A:H2'	2:J:226:A:O5'	1.92	0.70
3:K:71:A:O2'	3:K:72:A:C5'	2.40	0.70
3:K:253:A:C2	3:K:254:A:C4	2.80	0.70
4:L:431:U:H2'	4:L:432:U:H6	1.55	0.70
4:L:482:U:O2'	4:L:483:U:H5'	1.92	0.70
4:L:581:U:H2'	4:L:582:U:H6	1.56	0.70
5:M:304:U:C4	5:M:305:U:O4	2.45	0.70
5:M:396:U:H2'	5:M:397:U:O4'	1.92	0.70
5:M:421:U:C2	5:M:422:U:C5	2.78	0.70
5:M:432:U:C2'	5:M:433:U:C5'	2.66	0.70
6:N:399:U:O4	6:N:400:U:O4	2.08	0.70
6:N:434:U:O2'	6:N:435:U:C5'	2.38	0.70
6:N:469:U:C2	6:N:470:U:C5	2.80	0.70
1:I:16:A:C6	1:I:17:A:C5	2.80	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:47:A:N3	1:I:48:A:N7	2.40	0.70
1:I:62:A:C2	1:I:63:A:C8	2.80	0.70
1:I:65:A:O2'	1:I:66:A:C4'	2.40	0.70
1:I:74:A:C6	1:I:75:A:C6	2.79	0.70
1:I:93:A:O2'	1:I:94:A:H5'	1.91	0.70
1:I:106:A:HO2'	1:I:107:A:H5'	1.56	0.70
1:I:128:A:H2'	1:I:129:A:O4'	1.92	0.70
1:I:336:A:C2'	1:I:337:A:H5'	2.22	0.70
2:J:71:A:C4	2:J:72:A:N7	2.60	0.70
2:J:89:A:N1	2:J:90:A:C5	2.60	0.70
2:J:94:A:H2'	2:J:95:A:C5'	2.21	0.70
2:J:248:A:C6	2:J:249:A:C5	2.80	0.70
2:J:270:A:C3'	2:J:271:A:P	2.79	0.70
3:K:65:A:C6	3:K:66:A:C6	2.79	0.70
3:K:117:A:C4	3:K:118:A:N7	2.59	0.70
3:K:167:A:C5	3:K:168:A:C8	2.78	0.70
4:L:435:U:C2'	4:L:436:U:H5'	2.21	0.70
4:L:698:U:H2'	4:L:699:U:O4'	1.92	0.70
5:M:482:U:O2	5:M:483:U:C6	2.45	0.70
6:N:434:U:H2'	6:N:435:U:O4'	1.91	0.70
6:N:476:U:C2'	6:N:477:U:C5'	2.70	0.70
1:I:79:A:C2	1:I:80:A:C4	2.80	0.69
1:I:226:A:C2	1:I:227:A:C5	2.80	0.69
2:J:103:A:C2	2:J:104:A:C4	2.79	0.69
2:J:156:A:HO2'	2:J:157:A:H5'	1.54	0.69
2:J:206:A:H2'	2:J:207:A:O4'	1.91	0.69
3:K:38:A:H2'	3:K:39:A:H8	1.56	0.69
3:K:108:A:C4	3:K:109:A:C8	2.80	0.69
4:L:496:U:C2'	4:L:497:U:H5'	2.20	0.69
4:L:554:U:H2'	4:L:555:U:C6	2.26	0.69
4:L:610:U:H2'	4:L:611:U:C6	2.27	0.69
4:L:766:U:C4	4:L:767:U:C5	2.80	0.69
4:L:778:U:HO2'	4:L:779:U:H5'	1.57	0.69
5:M:368:U:C2	5:M:369:U:C6	2.80	0.69
6:N:364:U:O2'	6:N:365:U:P	2.45	0.69
6:N:425:U:C4	6:N:426:U:C5	2.80	0.69
1:I:78:A:C4	1:I:79:A:N7	2.59	0.69
1:I:180:A:C2	1:I:181:A:C1'	2.75	0.69
1:I:286:A:H2'	1:I:287:A:C8	2.28	0.69
1:I:323:A:N3	1:I:324:A:C1'	2.54	0.69
2:J:73:A:C2	2:J:74:A:C5	2.81	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:191:A:O2'	2:J:192:A:C5'	2.31	0.69
2:J:249:A:H2'	2:J:250:A:C5'	2.22	0.69
3:K:81:A:C2	3:K:82:A:C4	2.80	0.69
3:K:88:A:C2	3:K:89:A:C4	2.80	0.69
3:K:113:A:H2'	3:K:114:A:H8	1.56	0.69
3:K:136:A:C2	3:K:137:A:C8	2.80	0.69
4:L:492:U:C2	4:L:493:U:C5	2.80	0.69
4:L:499:U:C4	4:L:500:U:C4	2.79	0.69
4:L:506:U:O2'	4:L:507:U:C5'	2.32	0.69
4:L:602:U:C2	4:L:603:U:C6	2.80	0.69
4:L:749:U:H2'	4:L:750:U:O5'	1.90	0.69
5:M:316:U:C4	5:M:317:U:C5	2.79	0.69
5:M:354:U:O2	5:M:355:U:C5	2.46	0.69
5:M:396:U:H2'	5:M:397:U:H6	1.58	0.69
5:M:489:U:C4	5:M:490:U:C5	2.79	0.69
5:M:497:U:H2'	5:M:498:U:H6	1.55	0.69
5:M:534:U:H2'	5:M:535:U:C6	2.27	0.69
6:N:375:U:N3	6:N:376:U:C5	2.61	0.69
6:N:484:U:C2'	6:N:485:U:C4'	2.69	0.69
6:N:485:U:HO2'	6:N:486:U:C4'	2.05	0.69
1:I:11:A:H2'	1:I:12:A:H8	1.57	0.69
1:I:61:A:O2'	1:I:62:A:H5'	1.92	0.69
1:I:116:A:N3	1:I:117:A:C8	2.60	0.69
1:I:132:A:C2'	1:I:133:A:O5'	2.40	0.69
1:I:156:A:C4	1:I:157:A:N7	2.60	0.69
1:I:235:A:N3	1:I:236:A:C8	2.60	0.69
1:I:248:A:C2'	1:I:249:A:C5'	2.69	0.69
1:I:266:A:N3	1:I:267:A:C8	2.60	0.69
1:I:274:A:C2'	1:I:275:A:O5'	2.39	0.69
1:I:355:A:H3'	1:I:356:A:P	2.32	0.69
2:J:34:A:C2	2:J:35:A:C4	2.79	0.69
2:J:58:A:H2'	2:J:59:A:C5'	2.22	0.69
3:K:34:A:H2'	3:K:35:A:C8	2.28	0.69
3:K:108:A:C5	3:K:109:A:N7	2.60	0.69
3:K:125:A:H2'	3:K:126:A:O5'	1.91	0.69
3:K:204:A:C6	3:K:205:A:C6	2.81	0.69
4:L:519:U:C2	4:L:520:U:C5	2.80	0.69
4:L:540:U:O2	4:L:541:U:C6	2.46	0.69
4:L:662:U:C4	4:L:663:U:O4	2.45	0.69
4:L:757:U:C4	4:L:758:U:C5	2.80	0.69
4:L:764:U:H2'	4:L:765:U:O4'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:805:U:H2'	4:L:806:U:C6	2.24	0.69
5:M:291:U:O2'	5:M:292:U:H5'	1.91	0.69
5:M:298:U:H2'	5:M:299:U:H6	1.56	0.69
5:M:335:U:H2'	5:M:336:U:O4'	1.92	0.69
5:M:406:U:H2'	5:M:407:U:H6	1.57	0.69
5:M:408:U:C2	5:M:409:U:C6	2.79	0.69
5:M:428:U:H2'	5:M:429:U:H6	1.58	0.69
5:M:462:U:H2'	5:M:463:U:C6	2.26	0.69
5:M:464:U:C2'	5:M:465:U:C5'	2.69	0.69
5:M:469:U:C2	5:M:470:U:C4	2.79	0.69
5:M:502:U:O2'	5:M:503:U:O5'	2.10	0.69
5:M:510:U:C2'	5:M:511:U:H5'	2.12	0.69
6:N:400:U:C2	6:N:401:U:C6	2.80	0.69
1:I:72:A:O2'	1:I:73:A:H5'	1.91	0.69
1:I:119:A:C4	1:I:120:A:C8	2.80	0.69
1:I:253:A:N6	1:I:254:A:H62	1.88	0.69
1:I:270:A:C2	1:I:271:A:N9	2.61	0.69
1:I:300:A:C2	1:I:301:A:C8	2.80	0.69
1:I:340:A:C2	1:I:341:A:C8	2.81	0.69
2:J:48:A:C4	2:J:49:A:C8	2.80	0.69
2:J:71:A:H2'	2:J:72:A:H8	1.56	0.69
2:J:124:A:C2	2:J:125:A:C8	2.80	0.69
2:J:207:A:C4	2:J:208:A:C8	2.81	0.69
3:K:45:A:O2'	3:K:46:A:C4'	2.41	0.69
3:K:95:A:H2'	3:K:96:A:C5'	2.23	0.69
3:K:165:A:C4	3:K:166:A:C8	2.79	0.69
4:L:557:U:C2'	4:L:558:U:O4'	2.36	0.69
4:L:567:U:C2'	4:L:568:U:O5'	2.41	0.69
4:L:637:U:C2	4:L:638:U:C6	2.80	0.69
4:L:740:U:H2'	4:L:741:U:O4'	1.92	0.69
4:L:743:U:C2	4:L:744:U:C6	2.80	0.69
5:M:361:U:H2'	5:M:362:U:H6	1.58	0.69
5:M:512:U:C2'	5:M:513:U:C5'	2.69	0.69
6:N:435:U:H2'	6:N:436:U:H6	1.56	0.69
6:N:497:U:C2'	6:N:498:U:C4'	2.67	0.69
6:N:526:U:H2'	6:N:527:U:C6	2.27	0.69
1:I:53:A:C2	1:I:54:A:C5	2.81	0.69
1:I:69:A:C2	1:I:70:A:C4	2.79	0.69
1:I:87:A:C2	1:I:88:A:C4	2.80	0.69
1:I:137:A:N6	1:I:138:A:N6	2.40	0.69
1:I:143:A:H2'	1:I:144:A:N7	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:160:A:C2'	1:I:161:A:H5'	2.22	0.69
1:I:259:A:C4	1:I:260:A:C8	2.80	0.69
1:I:404:A:H2'	1:I:405:A:H8	1.55	0.69
1:I:405:A:N6	1:I:406:A:H62	1.87	0.69
2:J:6:A:C2	2:J:7:A:N7	2.60	0.69
2:J:83:A:C6	2:J:84:A:N6	2.60	0.69
2:J:90:A:C4	2:J:91:A:C8	2.80	0.69
2:J:174:A:H2'	2:J:175:A:H8	1.57	0.69
2:J:201:A:C6	2:J:202:A:N7	2.60	0.69
3:K:65:A:H62	3:K:66:A:H62	1.39	0.69
3:K:120:A:N1	3:K:121:A:C5	2.59	0.69
4:L:466:U:H2'	4:L:467:U:C5'	2.22	0.69
4:L:496:U:C2'	4:L:497:U:C5'	2.71	0.69
4:L:552:U:H2'	4:L:553:U:C6	2.27	0.69
4:L:557:U:H2'	4:L:558:U:H6	1.56	0.69
4:L:637:U:C4	4:L:638:U:O4	2.46	0.69
4:L:690:U:C2	4:L:691:U:C6	2.79	0.69
4:L:723:U:N1	4:L:724:U:C5	2.61	0.69
4:L:762:U:C2	4:L:763:U:C6	2.81	0.69
4:L:766:U:O4	4:L:767:U:O4	2.11	0.69
5:M:387:U:O2	5:M:388:U:C5	2.40	0.69
5:M:411:U:O2'	5:M:412:U:H5'	1.91	0.69
5:M:429:U:O2'	5:M:430:U:C5'	2.37	0.69
5:M:446:U:O2'	5:M:447:U:H5'	1.92	0.69
5:M:522:U:H2'	5:M:523:U:H6	1.58	0.69
6:N:293:U:C2'	6:N:294:U:C6	2.73	0.69
6:N:323:U:O2'	6:N:324:U:C5'	2.36	0.69
6:N:425:U:H2'	6:N:426:U:N1	2.06	0.69
6:N:472:U:H2'	6:N:473:U:C6	2.26	0.69
1:I:113:A:C2	1:I:114:A:C5	2.81	0.69
1:I:188:A:C2'	1:I:189:A:H5'	2.22	0.69
1:I:212:A:O2'	1:I:213:A:C5'	2.32	0.69
1:I:273:A:C4	1:I:274:A:C8	2.79	0.69
1:I:318:A:C2'	1:I:319:A:H5'	2.22	0.69
1:I:321:A:C2'	1:I:322:A:C5'	2.70	0.69
2:J:58:A:C4	2:J:59:A:C8	2.81	0.69
2:J:83:A:C2'	2:J:84:A:H8	2.00	0.69
2:J:94:A:C2'	2:J:95:A:O5'	2.37	0.69
2:J:181:A:O2'	2:J:182:A:H5'	1.92	0.69
3:K:100:A:N3	3:K:101:A:C8	2.61	0.69
3:K:104:A:O2'	3:K:105:A:C4'	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:167:A:H2'	3:K:168:A:O4'	1.93	0.69
4:L:582:U:H2'	4:L:583:U:H6	1.57	0.69
4:L:701:U:O2'	4:L:702:U:H5'	1.92	0.69
5:M:426:U:C2	5:M:427:U:C5	2.81	0.69
5:M:452:U:H2'	5:M:453:U:H6	1.57	0.69
5:M:489:U:C2'	5:M:490:U:O4'	2.40	0.69
5:M:495:U:C2	5:M:496:U:C5	2.80	0.69
6:N:301:U:H2'	6:N:302:U:H6	1.56	0.69
6:N:412:U:O2	6:N:413:U:C6	2.45	0.69
6:N:427:U:C2	6:N:428:U:C5	2.80	0.69
6:N:430:U:H2'	6:N:431:U:C6	2.28	0.69
6:N:451:U:N3	6:N:452:U:C5	2.61	0.69
1:I:113:A:N6	1:I:114:A:N6	2.40	0.69
1:I:120:A:O2'	1:I:121:A:C5'	2.29	0.69
1:I:254:A:H2'	1:I:255:A:C5'	2.23	0.69
1:I:330:A:H2'	1:I:331:A:C5'	2.22	0.69
2:J:68:A:N6	2:J:69:A:N6	2.40	0.69
2:J:118:A:N3	2:J:119:A:C8	2.60	0.69
2:J:165:A:C6	2:J:166:A:N6	2.61	0.69
2:J:171:A:N1	2:J:172:A:N6	2.40	0.69
3:K:97:A:H2'	3:K:98:A:C4'	2.22	0.69
3:K:127:A:HO2'	3:K:128:A:H5'	1.55	0.69
3:K:150:A:C2	3:K:151:A:C5	2.81	0.69
3:K:213:A:H2'	3:K:214:A:H8	1.56	0.69
4:L:445:U:C3'	4:L:446:U:P	2.81	0.69
4:L:461:U:C2	4:L:462:U:C5	2.80	0.69
4:L:585:U:C2'	4:L:586:U:O5'	2.39	0.69
4:L:706:U:C2	4:L:707:U:C6	2.81	0.69
4:L:737:U:O2	4:L:738:U:C6	2.46	0.69
4:L:800:U:H2'	4:L:801:U:H6	1.58	0.69
5:M:404:U:C2	5:M:405:U:C5	2.80	0.69
6:N:322:U:C3'	6:N:323:U:P	2.80	0.69
6:N:370:U:H2'	6:N:371:U:H6	1.58	0.69
6:N:425:U:C6	6:N:426:U:C5	2.79	0.69
6:N:451:U:C2	6:N:452:U:C5	2.81	0.69
6:N:453:U:C2'	6:N:454:U:H5'	2.22	0.69
1:I:56:A:H2'	1:I:57:A:O5'	1.92	0.69
1:I:105:A:O2'	1:I:106:A:H5'	1.93	0.69
1:I:129:A:C4	1:I:130:A:C8	2.81	0.69
1:I:223:A:H2'	1:I:224:A:H8	1.58	0.69
1:I:224:A:H2'	1:I:225:A:H8	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:233:A:C4	1:I:234:A:C8	2.81	0.69
1:I:284:A:H2'	1:I:285:A:O5'	1.93	0.69
1:I:286:A:C6	1:I:287:A:C6	2.80	0.69
2:J:69:A:C3'	2:J:70:A:C5'	2.51	0.69
2:J:100:A:C2	2:J:101:A:C4	2.81	0.69
2:J:159:A:C6	2:J:160:A:N6	2.61	0.69
2:J:183:A:H2'	2:J:184:A:C4'	2.22	0.69
2:J:206:A:C2	2:J:207:A:N9	2.60	0.69
2:J:209:A:C2'	2:J:210:A:C5'	2.71	0.69
2:J:216:A:N1	2:J:217:A:C6	2.61	0.69
2:J:224:A:N1	2:J:225:A:C5	2.61	0.69
3:K:90:A:C2	3:K:91:A:C4	2.80	0.69
3:K:168:A:C2'	3:K:169:A:O5'	2.41	0.69
3:K:228:A:O2'	3:K:229:A:H5'	1.93	0.69
4:L:486:U:N3	4:L:487:U:C5	2.60	0.69
4:L:489:U:H2'	4:L:490:U:C6	2.28	0.69
4:L:564:U:C2'	4:L:565:U:C5'	2.71	0.69
4:L:601:U:H2'	4:L:602:U:C6	2.26	0.69
4:L:661:U:HO2'	4:L:662:U:C5'	1.92	0.69
4:L:748:U:C2	4:L:749:U:C5	2.81	0.69
4:L:750:U:C2	4:L:751:U:H5	2.09	0.69
4:L:798:U:C2	4:L:799:U:C5	2.81	0.69
5:M:289:U:C2	5:M:290:U:C5	2.81	0.69
5:M:353:U:C2	5:M:354:U:C5	2.81	0.69
5:M:410:U:C2'	5:M:411:U:H6	2.03	0.69
5:M:518:U:C2	5:M:519:U:C5	2.81	0.69
5:M:518:U:C2	5:M:519:U:C6	2.81	0.69
6:N:273:U:H2'	6:N:274:U:C6	2.28	0.69
6:N:279:U:N3	6:N:280:U:C5	2.61	0.69
6:N:316:U:C2'	6:N:317:U:H6	2.05	0.69
6:N:384:U:C2	6:N:385:U:C5	2.80	0.69
6:N:394:U:O2	6:N:395:U:C6	2.46	0.69
6:N:428:U:O2'	6:N:429:U:H5'	1.92	0.69
6:N:434:U:C2'	6:N:435:U:C5'	2.70	0.69
6:N:476:U:C4	6:N:477:U:C5	2.81	0.69
1:I:25:A:N3	1:I:26:A:C8	2.61	0.69
1:I:44:A:H2'	1:I:45:A:O5'	1.92	0.69
1:I:143:A:C2'	1:I:144:A:C8	2.68	0.69
1:I:243:A:C4	1:I:244:A:C8	2.81	0.69
1:I:328:A:O2'	1:I:329:A:H5'	1.93	0.69
2:J:29:A:N1	2:J:30:A:C4	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:37:A:H2'	2:J:38:A:C5'	2.20	0.69
2:J:73:A:O2'	2:J:74:A:P	2.51	0.69
2:J:191:A:C4	2:J:192:A:C8	2.81	0.69
3:K:15:A:C3'	3:K:16:A:P	2.81	0.69
3:K:71:A:O2'	3:K:72:A:O5'	2.11	0.69
3:K:106:A:C4	3:K:107:A:N7	2.61	0.69
3:K:118:A:N3	3:K:119:A:C8	2.61	0.69
3:K:144:A:H2'	3:K:145:A:H8	1.53	0.69
4:L:509:U:H2'	4:L:510:U:C6	2.28	0.69
4:L:543:U:H2'	4:L:544:U:C6	2.27	0.69
4:L:581:U:N3	4:L:582:U:C5	2.61	0.69
4:L:599:U:C4	4:L:600:U:O4	2.45	0.69
4:L:659:U:C2	4:L:660:U:C5	2.81	0.69
4:L:697:U:O2'	4:L:698:U:H5'	1.93	0.69
4:L:783:U:H2'	4:L:784:U:H6	1.57	0.69
5:M:369:U:O2	5:M:370:U:C6	2.46	0.69
5:M:431:U:C2'	5:M:432:U:H5'	2.22	0.69
5:M:458:U:O2'	5:M:459:U:C4'	2.40	0.69
5:M:462:U:C2	5:M:463:U:C5	2.80	0.69
5:M:524:U:H2'	5:M:525:U:C6	2.28	0.69
6:N:410:U:C2	6:N:411:U:H5	2.11	0.69
6:N:448:U:C2	6:N:449:U:C6	2.80	0.69
6:N:501:U:O2'	6:N:502:U:C5'	2.38	0.69
1:I:21:A:C2'	1:I:22:A:H8	2.05	0.69
1:I:42:A:C2'	1:I:43:A:H5'	2.23	0.69
1:I:43:A:N1	1:I:44:A:C6	2.61	0.69
1:I:85:A:C4	1:I:86:A:C8	2.81	0.69
1:I:133:A:C4	1:I:134:A:C8	2.80	0.69
1:I:241:A:H2'	1:I:242:A:H8	1.58	0.69
2:J:124:A:H2'	2:J:125:A:H8	1.56	0.69
2:J:265:A:C2	2:J:266:A:N7	2.61	0.69
3:K:69:A:N6	3:K:70:A:N6	2.41	0.69
3:K:76:A:O2'	3:K:77:A:C5'	2.34	0.69
4:L:472:U:O2	4:L:473:U:C6	2.46	0.69
4:L:544:U:C2'	4:L:545:U:C5'	2.71	0.69
4:L:577:U:C4	4:L:578:U:C4	2.80	0.69
4:L:661:U:O2'	4:L:662:U:P	2.50	0.69
4:L:728:U:O2'	4:L:729:U:P	2.50	0.69
4:L:766:U:C5	4:L:767:U:C5	2.81	0.69
4:L:783:U:C2	4:L:784:U:C5	2.81	0.69
5:M:361:U:O2'	5:M:362:U:H5'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:509:U:HO2'	5:M:510:U:H5'	1.57	0.69
5:M:511:U:C2'	5:M:512:U:O4'	2.39	0.69
6:N:305:U:H2'	6:N:306:U:O4'	1.91	0.69
6:N:315:U:H2'	6:N:316:U:C6	2.27	0.69
6:N:330:U:H2'	6:N:331:U:H6	1.58	0.69
6:N:349:U:O2'	6:N:350:U:C5'	2.41	0.69
6:N:419:U:C2	6:N:420:U:C5	2.80	0.69
1:I:13:A:N1	1:I:14:A:C5	2.60	0.68
1:I:13:A:C6	1:I:14:A:C6	2.81	0.68
1:I:132:A:C3'	1:I:133:A:C5'	2.55	0.68
1:I:153:A:H2'	1:I:154:A:H8	1.58	0.68
1:I:174:A:H2'	1:I:175:A:C5'	2.23	0.68
1:I:375:A:C2	1:I:376:A:C8	2.81	0.68
2:J:69:A:H2'	2:J:70:A:C4'	2.22	0.68
2:J:206:A:N3	2:J:207:A:C8	2.61	0.68
3:K:96:A:H2'	3:K:97:A:H8	1.56	0.68
3:K:102:A:N1	3:K:103:A:C5	2.61	0.68
4:L:423:U:H2'	4:L:424:U:H6	1.57	0.68
4:L:533:U:O2'	4:L:534:U:C5'	2.31	0.68
4:L:564:U:C2	4:L:565:U:C5	2.81	0.68
4:L:763:U:O2'	4:L:764:U:C5'	2.41	0.68
4:L:767:U:C2'	4:L:768:U:C6	2.70	0.68
4:L:803:U:C2'	4:L:804:U:C6	2.65	0.68
5:M:286:U:C2	5:M:287:U:C5	2.81	0.68
5:M:328:U:O2	5:M:329:U:C6	2.45	0.68
5:M:425:U:C2'	5:M:426:U:H5'	2.20	0.68
5:M:430:U:O4	5:M:431:U:O4	2.10	0.68
5:M:486:U:C2'	5:M:487:U:C5'	2.71	0.68
5:M:494:U:C2'	5:M:495:U:C5'	2.71	0.68
6:N:294:U:H2'	6:N:295:U:C6	2.26	0.68
6:N:471:U:HO2'	6:N:472:U:H5'	1.58	0.68
1:I:11:A:N6	1:I:12:A:H62	1.91	0.68
1:I:25:A:C4	1:I:26:A:C8	2.82	0.68
1:I:82:A:H2'	1:I:83:A:C5'	2.09	0.68
1:I:102:A:C2	1:I:103:A:C4	2.81	0.68
1:I:228:A:H2'	1:I:229:A:H8	1.58	0.68
1:I:248:A:C2'	1:I:249:A:O5'	2.40	0.68
1:I:266:A:C4	1:I:267:A:C8	2.81	0.68
2:J:39:A:C2'	2:J:40:A:C5'	2.71	0.68
2:J:173:A:C2'	2:J:174:A:H8	2.01	0.68
2:J:192:A:N3	2:J:193:A:C8	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:250:A:O2'	2:J:251:A:H5'	1.93	0.68
3:K:151:A:H2'	3:K:152:A:H8	1.57	0.68
3:K:212:A:C4	3:K:213:A:N7	2.61	0.68
4:L:459:U:H2'	4:L:460:U:C5'	2.22	0.68
4:L:519:U:N3	4:L:520:U:C5	2.61	0.68
4:L:684:U:H2'	4:L:685:U:C6	2.28	0.68
4:L:747:U:O2'	4:L:748:U:H5'	1.93	0.68
4:L:749:U:C2'	4:L:750:U:C5'	2.70	0.68
4:L:811:U:H2'	4:L:812:U:C1'	2.24	0.68
4:L:814:U:C2	4:L:815:U:C6	2.80	0.68
5:M:523:U:O2'	5:M:524:U:P	2.46	0.68
6:N:499:U:C2	6:N:500:U:C5	2.81	0.68
1:I:78:A:N3	1:I:79:A:N9	2.40	0.68
1:I:162:A:C6	1:I:163:A:N7	2.62	0.68
1:I:275:A:C2	1:I:276:A:C5	2.81	0.68
1:I:296:A:H2'	1:I:297:A:C5'	2.22	0.68
1:I:337:A:C2	1:I:338:A:C4	2.81	0.68
2:J:28:A:C6	2:J:29:A:C6	2.81	0.68
2:J:47:A:C2	2:J:48:A:C8	2.81	0.68
2:J:160:A:C3'	2:J:161:A:H5'	1.92	0.68
2:J:161:A:H2'	2:J:162:A:C5'	2.24	0.68
2:J:245:A:C2'	2:J:246:A:H5'	2.23	0.68
2:J:247:A:H2'	2:J:248:A:H8	1.59	0.68
3:K:38:A:C2	3:K:39:A:C4	2.81	0.68
3:K:192:A:C4	3:K:193:A:N7	2.61	0.68
4:L:537:U:H2'	4:L:538:U:C6	2.27	0.68
4:L:548:U:O2'	4:L:549:U:H5'	1.92	0.68
4:L:593:U:N3	4:L:594:U:C4	2.61	0.68
4:L:727:U:C2	4:L:728:U:C5	2.81	0.68
5:M:405:U:O2	5:M:406:U:C1'	2.41	0.68
5:M:456:U:N3	5:M:457:U:C5	2.62	0.68
5:M:500:U:C2	5:M:501:U:C5	2.81	0.68
6:N:454:U:H2'	6:N:455:U:C5'	2.23	0.68
1:I:12:A:C2	1:I:13:A:C4	2.81	0.68
1:I:73:A:C2	1:I:74:A:C5	2.81	0.68
1:I:187:A:C5	1:I:188:A:N7	2.61	0.68
1:I:232:A:H2'	1:I:233:A:C4'	2.23	0.68
1:I:246:A:O2'	1:I:247:A:C5'	2.33	0.68
1:I:257:A:C2	1:I:258:A:C4	2.82	0.68
2:J:131:A:N6	2:J:132:A:H62	1.89	0.68
2:J:235:A:O2'	2:J:236:A:H5'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:61:A:N6	3:K:62:A:H62	1.89	0.68
3:K:65:A:C6	3:K:66:A:C5	2.81	0.68
3:K:127:A:O2'	3:K:128:A:C5'	2.35	0.68
3:K:164:A:C2'	3:K:165:A:C5'	2.71	0.68
3:K:217:A:H2'	3:K:218:A:C8	2.28	0.68
4:L:448:U:N3	4:L:449:U:C5	2.59	0.68
4:L:487:U:C2'	4:L:488:U:O4'	2.42	0.68
4:L:583:U:C2	4:L:584:U:C6	2.82	0.68
4:L:766:U:N1	4:L:767:U:C5	2.62	0.68
4:L:783:U:O2'	4:L:784:U:C5'	2.40	0.68
4:L:799:U:H2'	4:L:800:U:H6	1.59	0.68
4:L:806:U:H2'	4:L:807:U:O4'	1.93	0.68
5:M:311:U:C3'	5:M:312:U:P	2.81	0.68
5:M:336:U:C2'	5:M:337:U:C4'	2.60	0.68
5:M:365:U:C2'	5:M:366:U:C5'	2.72	0.68
5:M:372:U:N3	5:M:373:U:C5	2.61	0.68
1:I:65:A:C4	1:I:66:A:C8	2.81	0.68
1:I:68:A:N1	1:I:69:A:C5	2.61	0.68
1:I:147:A:H2'	1:I:148:A:C5'	2.21	0.68
1:I:222:A:C2'	1:I:223:A:C5'	2.69	0.68
1:I:230:A:C4	1:I:231:A:C8	2.80	0.68
1:I:233:A:H2'	1:I:234:A:O4'	1.94	0.68
1:I:250:A:N1	1:I:251:A:C6	2.62	0.68
2:J:101:A:H2'	2:J:102:A:H8	1.59	0.68
3:K:77:A:C2'	3:K:78:A:H5'	2.23	0.68
3:K:105:A:O2'	3:K:106:A:H5'	1.94	0.68
3:K:141:A:C2	3:K:142:A:C5	2.80	0.68
3:K:163:A:O2'	3:K:164:A:H5'	1.94	0.68
3:K:236:A:H2'	3:K:237:A:H8	1.59	0.68
4:L:419:U:C2	4:L:420:U:C5	2.81	0.68
4:L:467:U:HO2'	4:L:468:U:H5'	1.58	0.68
4:L:546:U:O2'	4:L:547:U:C5'	2.40	0.68
5:M:298:U:C2'	5:M:299:U:C5'	2.71	0.68
6:N:412:U:H2'	6:N:413:U:C5'	2.22	0.68
6:N:420:U:C2'	6:N:421:U:O5'	2.40	0.68
6:N:493:U:H2'	6:N:494:U:C6	2.28	0.68
6:N:525:U:O2'	6:N:526:U:H5'	1.92	0.68
1:I:258:A:C2	1:I:259:A:C4	2.82	0.68
1:I:272:A:H2'	1:I:273:A:C8	2.27	0.68
2:J:13:A:C2	2:J:14:A:C5	2.81	0.68
2:J:54:A:H2'	2:J:55:A:C8	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:124:A:O2'	2:J:125:A:O5'	2.10	0.68
2:J:144:A:C4	2:J:145:A:C8	2.82	0.68
2:J:265:A:C2	2:J:266:A:N9	2.61	0.68
3:K:31:A:H61	3:K:32:A:N6	1.89	0.68
4:L:626:U:C2	4:L:627:U:C5	2.82	0.68
4:L:687:U:C2	4:L:688:U:C5	2.82	0.68
4:L:767:U:O2	4:L:768:U:C6	2.47	0.68
4:L:801:U:H2'	4:L:802:U:H6	1.59	0.68
5:M:379:U:C2'	5:M:380:U:C6	2.66	0.68
5:M:460:U:C4	5:M:461:U:O4	2.46	0.68
5:M:523:U:O2'	5:M:524:U:C5'	2.40	0.68
5:M:545:U:C2	5:M:546:U:C5	2.82	0.68
1:I:42:A:O2'	1:I:43:A:C5'	2.33	0.68
1:I:74:A:C5	1:I:75:A:C5	2.82	0.68
1:I:75:A:N3	1:I:76:A:C8	2.61	0.68
1:I:85:A:C2	1:I:86:A:C5	2.82	0.68
1:I:102:A:C6	1:I:103:A:C5	2.81	0.68
1:I:106:A:N3	1:I:107:A:N9	2.42	0.68
1:I:278:A:H2'	1:I:279:A:H8	1.54	0.68
1:I:360:A:C2'	1:I:361:A:H5'	2.23	0.68
2:J:67:A:O2'	2:J:68:A:C5'	2.28	0.68
2:J:88:A:C4	2:J:89:A:C8	2.81	0.68
2:J:183:A:C2	2:J:184:A:C1'	2.77	0.68
2:J:193:A:C2'	2:J:194:A:H5'	2.23	0.68
2:J:200:A:C2	2:J:201:A:C4	2.82	0.68
2:J:224:A:C6	2:J:225:A:C5	2.81	0.68
3:K:89:A:C2	3:K:90:A:C4	2.81	0.68
3:K:167:A:C6	3:K:168:A:C6	2.82	0.68
3:K:195:A:C6	3:K:196:A:N6	2.62	0.68
4:L:423:U:C4	4:L:424:U:O4	2.46	0.68
4:L:435:U:C2'	4:L:436:U:C5'	2.72	0.68
4:L:563:U:N3	4:L:564:U:C4	2.62	0.68
4:L:640:U:C4	4:L:641:U:O4	2.46	0.68
4:L:701:U:H2'	4:L:702:U:H6	1.57	0.68
4:L:703:U:C2	4:L:704:U:C5	2.82	0.68
4:L:719:U:O2'	4:L:720:U:P	2.50	0.68
4:L:724:U:C2'	4:L:725:U:O4'	2.38	0.68
4:L:730:U:H2'	4:L:731:U:C6	2.29	0.68
4:L:743:U:O2	4:L:744:U:C6	2.47	0.68
5:M:321:U:C2	5:M:322:U:C5	2.82	0.68
5:M:360:U:O2'	5:M:361:U:C5'	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:506:U:N3	5:M:507:U:C5	2.62	0.68
5:M:509:U:C2	5:M:510:U:C5	2.82	0.68
6:N:385:U:H2'	6:N:386:U:C6	2.29	0.68
6:N:418:U:N3	6:N:419:U:C4	2.61	0.68
6:N:465:U:C2	6:N:466:U:C5	2.81	0.68
6:N:466:U:H2'	6:N:467:U:H6	1.57	0.68
6:N:482:U:C2	6:N:483:U:C5	2.80	0.68
6:N:484:U:O3'	6:N:485:U:O5'	2.11	0.68
6:N:487:U:H2'	6:N:488:U:C6	2.27	0.68
1:I:52:A:C2'	1:I:53:A:C5'	2.71	0.68
1:I:87:A:C2	1:I:88:A:C8	2.81	0.68
1:I:95:A:C2	1:I:96:A:C8	2.81	0.68
1:I:231:A:O2'	1:I:232:A:H5'	1.94	0.68
1:I:272:A:C5	1:I:273:A:N7	2.62	0.68
2:J:11:A:O2'	2:J:12:A:C4'	2.41	0.68
2:J:29:A:C2'	2:J:30:A:C4'	2.68	0.68
2:J:182:A:H61	2:J:183:A:N6	1.91	0.68
2:J:191:A:C2	2:J:192:A:C4	2.82	0.68
2:J:223:A:C6	2:J:224:A:C5	2.82	0.68
3:K:13:A:C3'	3:K:14:A:P	2.82	0.68
3:K:121:A:N6	3:K:122:A:H62	1.89	0.68
3:K:250:A:O2'	3:K:251:A:C5'	2.22	0.68
3:K:254:A:C4	3:K:255:A:C8	2.81	0.68
4:L:424:U:N3	4:L:425:U:C4	2.62	0.68
4:L:577:U:N3	4:L:578:U:C4	2.62	0.68
4:L:652:U:C2'	4:L:653:U:H5'	2.24	0.68
4:L:734:U:C2	4:L:735:U:C6	2.82	0.68
4:L:776:U:H2'	4:L:777:U:C5'	2.21	0.68
4:L:778:U:C2	4:L:779:U:C5	2.81	0.68
6:N:348:U:H2'	6:N:349:U:C6	2.28	0.68
6:N:403:U:HO2'	6:N:404:U:H5'	1.59	0.68
1:I:49:A:H2'	1:I:50:A:O5'	1.94	0.68
1:I:56:A:C2'	1:I:57:A:C5'	2.72	0.68
1:I:74:A:C5	1:I:75:A:C8	2.81	0.68
2:J:99:A:C2	2:J:100:A:C5	2.81	0.68
2:J:130:A:H2'	2:J:131:A:C5'	2.23	0.68
2:J:153:A:H2'	2:J:154:A:C5'	2.23	0.68
2:J:171:A:C2'	2:J:172:A:C8	2.71	0.68
3:K:181:A:O2'	3:K:182:A:H5'	1.93	0.68
4:L:424:U:O4	4:L:425:U:O4	2.11	0.68
4:L:462:U:C2	4:L:463:U:C5	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:505:U:N3	4:L:506:U:C5	2.62	0.68
4:L:509:U:C2'	4:L:510:U:C5'	2.71	0.68
4:L:529:U:H2'	4:L:530:U:O5'	1.92	0.68
4:L:552:U:O4	4:L:553:U:O4	2.12	0.68
4:L:597:U:C2	4:L:598:U:C6	2.82	0.68
4:L:771:U:C2	4:L:772:U:C6	2.82	0.68
4:L:804:U:C2	4:L:805:U:C5	2.82	0.68
5:M:335:U:H2'	5:M:336:U:H6	1.57	0.68
5:M:367:U:N3	5:M:368:U:C5	2.62	0.68
5:M:387:U:N3	5:M:388:U:C5	2.61	0.68
5:M:535:U:H2'	5:M:536:U:C6	2.28	0.68
5:M:537:U:N3	5:M:538:U:C5	2.62	0.68
6:N:311:U:O2'	6:N:312:U:C5'	2.41	0.68
6:N:431:U:O2'	6:N:432:U:C4'	2.42	0.68
6:N:451:U:H2'	6:N:452:U:H6	1.59	0.68
6:N:473:U:C2'	6:N:474:U:H6	2.07	0.68
1:I:113:A:C2'	1:I:114:A:O4'	2.41	0.68
1:I:238:A:C6	1:I:239:A:C6	2.82	0.68
1:I:244:A:C2	1:I:245:A:C8	2.82	0.68
1:I:270:A:N1	1:I:271:A:C4	2.62	0.68
1:I:270:A:N3	1:I:271:A:C1'	2.57	0.68
3:K:35:A:N6	3:K:36:A:N6	2.42	0.68
3:K:46:A:O2'	3:K:47:A:O4'	2.12	0.68
3:K:99:A:C4	3:K:100:A:C8	2.81	0.68
3:K:121:A:C4	3:K:122:A:C8	2.81	0.68
3:K:191:A:H2'	3:K:192:A:C8	2.28	0.68
4:L:517:U:H2'	4:L:518:U:H6	1.59	0.68
4:L:549:U:C2'	4:L:550:U:C4'	2.72	0.68
4:L:661:U:H2'	4:L:662:U:H6	1.59	0.68
4:L:688:U:O2	4:L:689:U:C6	2.46	0.68
4:L:715:U:C2	4:L:716:U:C5	2.82	0.68
4:L:716:U:H2'	4:L:717:U:C6	2.28	0.68
4:L:747:U:C2	4:L:748:U:C6	2.82	0.68
4:L:799:U:C2	4:L:800:U:C5	2.81	0.68
5:M:316:U:C4	5:M:317:U:C4	2.81	0.68
5:M:397:U:H2'	5:M:398:U:C6	2.29	0.68
5:M:446:U:H2'	5:M:447:U:H6	1.58	0.68
5:M:451:U:H2'	5:M:452:U:C6	2.29	0.68
5:M:462:U:C2	5:M:463:U:C6	2.82	0.68
5:M:514:U:H2'	5:M:515:U:O5'	1.92	0.68
6:N:374:U:H2'	6:N:375:U:C6	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:380:U:C2	6:N:381:U:C6	2.82	0.68
1:I:4:A:C2	1:I:5:A:C6	2.82	0.67
1:I:54:A:N1	1:I:55:A:C6	2.62	0.67
1:I:56:A:C2	1:I:57:A:C5	2.82	0.67
1:I:96:A:H2'	1:I:97:A:H8	1.58	0.67
1:I:110:A:H2'	1:I:111:A:O4'	1.94	0.67
1:I:175:A:N1	1:I:176:A:C6	2.63	0.67
1:I:235:A:O2'	1:I:236:A:H5'	1.94	0.67
1:I:316:A:C6	1:I:317:A:N6	2.62	0.67
2:J:51:A:C2'	2:J:52:A:C8	2.74	0.67
2:J:58:A:C2	2:J:59:A:C8	2.82	0.67
2:J:136:A:C4	2:J:137:A:C8	2.82	0.67
2:J:176:A:C2	2:J:177:A:C8	2.82	0.67
3:K:46:A:C3'	3:K:47:A:P	2.82	0.67
3:K:101:A:N6	3:K:102:A:H62	1.92	0.67
3:K:125:A:C2'	3:K:126:A:O5'	2.43	0.67
4:L:425:U:H2'	4:L:426:U:O4'	1.94	0.67
4:L:463:U:H2'	4:L:464:U:H6	1.57	0.67
4:L:638:U:O2	4:L:639:U:O4'	2.12	0.67
4:L:722:U:C1'	4:L:723:U:C5	2.77	0.67
4:L:742:U:H2'	4:L:743:U:C6	2.29	0.67
4:L:782:U:C2	4:L:783:U:C5	2.83	0.67
4:L:793:U:C4	4:L:794:U:C4	2.82	0.67
5:M:361:U:O2'	5:M:362:U:P	2.51	0.67
5:M:504:U:C2'	5:M:505:U:C5'	2.71	0.67
6:N:389:U:H2'	6:N:390:U:H6	1.57	0.67
6:N:395:U:N3	6:N:396:U:C5	2.62	0.67
6:N:483:U:N3	6:N:484:U:C5	2.62	0.67
1:I:159:A:C2	1:I:160:A:C8	2.83	0.67
1:I:187:A:C6	1:I:188:A:N6	2.63	0.67
1:I:252:A:C2	1:I:253:A:N9	2.61	0.67
1:I:400:A:H2'	1:I:401:A:C8	2.29	0.67
2:J:43:A:C2'	2:J:44:A:C4'	2.72	0.67
2:J:56:A:C2	2:J:57:A:C8	2.82	0.67
2:J:116:A:O2'	2:J:117:A:P	2.53	0.67
3:K:38:A:C2	3:K:39:A:C8	2.83	0.67
3:K:54:A:C2	3:K:55:A:C5	2.81	0.67
3:K:121:A:C6	3:K:122:A:C5	2.82	0.67
3:K:135:A:C2	3:K:136:A:C8	2.81	0.67
3:K:212:A:C5	3:K:213:A:N7	2.62	0.67
3:K:253:A:C2	3:K:254:A:N9	2.62	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:423:U:C2	4:L:424:U:C5	2.81	0.67
4:L:541:U:C2	4:L:542:U:C5	2.82	0.67
4:L:590:U:C2'	4:L:591:U:H5'	2.24	0.67
4:L:710:U:C2	4:L:711:U:C5	2.83	0.67
4:L:720:U:C4	4:L:721:U:C4	2.81	0.67
4:L:768:U:O2	4:L:769:U:C6	2.47	0.67
4:L:807:U:O2	4:L:808:U:O4'	2.12	0.67
5:M:288:U:C2'	5:M:289:U:H5'	2.23	0.67
5:M:416:U:O2	5:M:417:U:O4'	2.12	0.67
5:M:458:U:H2'	5:M:459:U:C4'	2.25	0.67
5:M:459:U:C2	5:M:460:U:C6	2.82	0.67
5:M:463:U:C2	5:M:464:U:C5	2.82	0.67
5:M:469:U:C2	5:M:470:U:C6	2.72	0.67
5:M:485:U:C2	5:M:486:U:C6	2.82	0.67
6:N:333:U:H2'	6:N:334:U:C6	2.28	0.67
6:N:406:U:H2'	6:N:407:U:C6	2.29	0.67
6:N:458:U:C2	6:N:459:U:C5	2.82	0.67
1:I:72:A:C2'	1:I:73:A:C5'	2.73	0.67
1:I:82:A:N6	1:I:83:A:C6	2.62	0.67
1:I:91:A:C2	1:I:92:A:C8	2.81	0.67
1:I:180:A:C4	1:I:181:A:C8	2.82	0.67
1:I:236:A:C4	1:I:237:A:C8	2.81	0.67
1:I:247:A:N6	1:I:248:A:H62	1.92	0.67
2:J:71:A:C6	2:J:72:A:C6	2.82	0.67
2:J:153:A:H2'	2:J:154:A:O5'	1.92	0.67
2:J:253:A:H2'	2:J:254:A:H8	1.57	0.67
3:K:61:A:C6	3:K:62:A:N6	2.62	0.67
3:K:76:A:C2'	3:K:77:A:C5'	2.71	0.67
3:K:206:A:H2'	3:K:207:A:O4'	1.93	0.67
3:K:249:A:N3	3:K:250:A:C8	2.62	0.67
3:K:251:A:C6	3:K:252:A:N7	2.62	0.67
4:L:420:U:H2'	4:L:421:U:H6	1.55	0.67
4:L:507:U:H2'	4:L:508:U:O5'	1.94	0.67
4:L:508:U:O4	4:L:509:U:O4	2.12	0.67
4:L:516:U:H2'	4:L:517:U:H6	1.58	0.67
4:L:538:U:N3	4:L:539:U:C4	2.63	0.67
4:L:547:U:C6	4:L:548:U:H5	2.12	0.67
4:L:553:U:H2'	4:L:554:U:H6	1.58	0.67
4:L:668:U:C2'	4:L:669:U:H6	2.01	0.67
4:L:736:U:HO2'	4:L:737:U:C5'	1.94	0.67
4:L:745:U:O2	4:L:746:U:C5	2.48	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:747:U:H2'	4:L:748:U:H6	1.59	0.67
4:L:768:U:H2'	4:L:769:U:H6	1.59	0.67
4:L:786:U:C2	4:L:787:U:C5	2.83	0.67
4:L:812:U:H2'	4:L:813:U:O4'	1.94	0.67
5:M:396:U:H2'	5:M:397:U:C5'	2.24	0.67
5:M:428:U:C2'	5:M:429:U:O5'	2.41	0.67
5:M:487:U:N3	5:M:488:U:C5	2.62	0.67
5:M:501:U:N3	5:M:502:U:C4	2.62	0.67
5:M:503:U:H2'	5:M:504:U:H6	1.59	0.67
6:N:413:U:N3	6:N:414:U:C5	2.62	0.67
1:I:60:A:C6	1:I:61:A:N6	2.63	0.67
1:I:212:A:C2'	1:I:213:A:H5'	2.23	0.67
1:I:363:A:H2'	1:I:364:A:C8	2.30	0.67
2:J:87:A:C2	2:J:88:A:C5	2.82	0.67
2:J:128:A:C4	2:J:129:A:C8	2.83	0.67
2:J:165:A:C2	2:J:166:A:C8	2.83	0.67
2:J:219:A:C2	2:J:220:A:N9	2.63	0.67
3:K:45:A:C2'	3:K:46:A:C5'	2.72	0.67
3:K:92:A:H2'	3:K:93:A:C5'	2.25	0.67
3:K:94:A:H2'	3:K:95:A:C8	2.28	0.67
3:K:197:A:H2'	3:K:198:A:C8	2.29	0.67
3:K:254:A:C5	3:K:255:A:N7	2.62	0.67
4:L:506:U:C2'	4:L:507:U:C5'	2.72	0.67
4:L:627:U:O2'	4:L:628:U:C5'	2.38	0.67
4:L:742:U:H2'	4:L:743:U:C5	2.29	0.67
4:L:764:U:C5	4:L:765:U:H5	2.13	0.67
4:L:812:U:H2'	4:L:813:U:H6	1.60	0.67
6:N:437:U:H2'	6:N:438:U:C6	2.29	0.67
1:I:13:A:O2'	1:I:14:A:C5'	2.42	0.67
1:I:197:A:N3	1:I:198:A:C8	2.62	0.67
1:I:225:A:C6	1:I:226:A:N6	2.63	0.67
1:I:249:A:N3	1:I:250:A:C1'	2.58	0.67
1:I:269:A:C2	1:I:270:A:C4	2.81	0.67
2:J:55:A:C2'	2:J:56:A:H5'	2.24	0.67
2:J:66:A:H2'	2:J:67:A:O5'	1.95	0.67
2:J:220:A:N6	2:J:221:A:N6	2.42	0.67
3:K:100:A:C2'	3:K:101:A:C4'	2.72	0.67
3:K:124:A:C6	3:K:125:A:N6	2.62	0.67
3:K:138:A:C2	3:K:139:A:C8	2.83	0.67
3:K:141:A:N3	3:K:142:A:C8	2.63	0.67
3:K:160:A:C2'	3:K:161:A:H5'	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:178:A:C3'	3:K:179:A:P	2.83	0.67
4:L:464:U:C2'	4:L:465:U:C5'	2.72	0.67
4:L:466:U:H2'	4:L:467:U:O5'	1.94	0.67
4:L:596:U:N3	4:L:597:U:C5	2.62	0.67
4:L:599:U:C2	4:L:600:U:C6	2.83	0.67
4:L:712:U:H2'	4:L:713:U:H6	1.59	0.67
4:L:721:U:O2	4:L:722:U:C1'	2.43	0.67
4:L:729:U:H2'	4:L:730:U:C6	2.30	0.67
4:L:767:U:C2	4:L:768:U:H5	2.09	0.67
4:L:781:U:H2'	4:L:782:U:H6	1.60	0.67
5:M:295:U:H2'	5:M:296:U:C6	2.29	0.67
5:M:481:U:C4	5:M:482:U:O4	2.47	0.67
6:N:492:U:C2'	6:N:493:U:H5'	2.23	0.67
1:I:12:A:C4	1:I:13:A:C8	2.82	0.67
1:I:42:A:N3	1:I:43:A:C8	2.63	0.67
1:I:75:A:C2	1:I:76:A:C8	2.82	0.67
1:I:79:A:C2	1:I:80:A:C8	2.83	0.67
1:I:159:A:N3	1:I:160:A:C8	2.63	0.67
1:I:250:A:C5	1:I:251:A:C5	2.83	0.67
1:I:270:A:O2'	1:I:271:A:C4'	2.42	0.67
1:I:341:A:C4	1:I:342:A:C8	2.81	0.67
1:I:364:A:N3	1:I:365:A:C8	2.62	0.67
2:J:18:A:H2'	2:J:19:A:H8	1.60	0.67
2:J:205:A:N3	2:J:206:A:C8	2.62	0.67
2:J:223:A:C5	2:J:224:A:N7	2.63	0.67
2:J:230:A:C2	2:J:231:A:C4	2.83	0.67
3:K:71:A:C4	3:K:72:A:C8	2.82	0.67
3:K:131:A:H61	3:K:132:A:N6	1.91	0.67
3:K:179:A:HO3'	3:K:180:A:P	2.15	0.67
4:L:489:U:C4	4:L:490:U:C4	2.83	0.67
4:L:507:U:H2'	4:L:508:U:O4'	1.95	0.67
4:L:586:U:N3	4:L:587:U:C5	2.63	0.67
4:L:601:U:C2'	4:L:602:U:H5'	2.24	0.67
5:M:298:U:HO2'	5:M:299:U:H5'	1.57	0.67
5:M:419:U:H2'	5:M:420:U:O4'	1.94	0.67
5:M:425:U:H2'	5:M:426:U:O5'	1.93	0.67
5:M:437:U:C4	5:M:438:U:C5	2.83	0.67
5:M:489:U:O2'	5:M:490:U:C5'	2.37	0.67
6:N:389:U:H2'	6:N:390:U:C6	2.29	0.67
6:N:471:U:H2'	6:N:472:U:H6	1.59	0.67
6:N:473:U:C4	6:N:474:U:C5	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:11:A:C6	1:I:12:A:N6	2.62	0.67
1:I:18:A:H2'	1:I:19:A:H8	1.58	0.67
1:I:140:A:H2'	1:I:141:A:C8	2.30	0.67
1:I:257:A:C2'	1:I:258:A:O5'	2.41	0.67
1:I:281:A:C6	1:I:282:A:C6	2.83	0.67
1:I:292:A:C2	1:I:293:A:C8	2.83	0.67
1:I:353:A:C2	1:I:354:A:C4	2.82	0.67
2:J:15:A:N6	5:M:539:U:O4	2.26	0.67
2:J:42:A:C4	2:J:43:A:C8	2.83	0.67
2:J:83:A:C2	2:J:84:A:N9	2.61	0.67
2:J:147:A:C2	2:J:148:A:N7	2.63	0.67
3:K:49:A:H2'	3:K:50:A:H8	1.60	0.67
3:K:145:A:H2'	3:K:146:A:H8	1.59	0.67
3:K:147:A:C2	3:K:148:A:N7	2.62	0.67
3:K:169:A:O2'	3:K:170:A:H5'	1.93	0.67
4:L:505:U:C2	4:L:506:U:C5	2.83	0.67
4:L:514:U:H2'	4:L:515:U:H6	1.59	0.67
4:L:631:U:O2'	4:L:632:U:C5'	2.38	0.67
5:M:331:U:HO2'	5:M:332:U:H5'	1.57	0.67
5:M:337:U:H2'	5:M:338:U:O4'	1.95	0.67
5:M:364:U:C2	5:M:365:U:C6	2.83	0.67
5:M:382:U:C2'	5:M:383:U:C5'	2.69	0.67
5:M:406:U:H2'	5:M:407:U:C4'	2.24	0.67
5:M:435:U:C2'	5:M:436:U:O5'	2.42	0.67
6:N:278:U:H2'	6:N:279:U:H5'	1.76	0.67
6:N:365:U:O2'	6:N:366:U:C5'	2.40	0.67
6:N:370:U:O2'	6:N:371:U:H5'	1.94	0.67
1:I:37:A:C2	1:I:38:A:C8	2.83	0.67
1:I:48:A:C4	1:I:49:A:C8	2.82	0.67
1:I:78:A:H2'	1:I:79:A:H8	1.60	0.67
1:I:202:A:H2'	1:I:203:A:O5'	1.93	0.67
1:I:405:A:C5	1:I:406:A:N7	2.63	0.67
2:J:160:A:C4	2:J:161:A:C8	2.83	0.67
2:J:184:A:C2'	2:J:185:A:C5'	2.72	0.67
2:J:214:A:C2'	2:J:215:A:O5'	2.43	0.67
3:K:38:A:O2'	3:K:39:A:P	2.53	0.67
3:K:64:A:H2'	3:K:65:A:O4'	1.95	0.67
3:K:103:A:N3	3:K:104:A:C8	2.62	0.67
3:K:203:A:C2'	3:K:204:A:H8	2.07	0.67
3:K:208:A:C6	3:K:209:A:N6	2.63	0.67
4:L:584:U:C2	4:L:585:U:C5	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:300:U:C2'	5:M:301:U:C5'	2.72	0.67
5:M:334:U:O2	5:M:335:U:C1'	2.42	0.67
5:M:381:U:C4	5:M:382:U:C4	2.83	0.67
5:M:421:U:H2'	5:M:422:U:C6	2.30	0.67
5:M:436:U:C2	5:M:437:U:C6	2.82	0.67
5:M:466:U:H2'	5:M:467:U:C4'	2.25	0.67
5:M:539:U:O2	5:M:540:U:C6	2.48	0.67
6:N:435:U:O2'	6:N:436:U:C5'	2.42	0.67
1:I:232:A:C5	1:I:233:A:N7	2.62	0.67
1:I:261:A:C2'	1:I:262:A:H5'	2.24	0.67
1:I:269:A:C5	1:I:270:A:N7	2.63	0.67
2:J:28:A:N1	2:J:29:A:C5	2.62	0.67
2:J:37:A:C2	2:J:38:A:N9	2.63	0.67
2:J:58:A:C2	2:J:59:A:N9	2.63	0.67
2:J:84:A:C5	2:J:85:A:N7	2.63	0.67
2:J:123:A:H2'	2:J:124:A:H8	1.60	0.67
2:J:224:A:C2'	2:J:225:A:H5'	2.25	0.67
2:J:226:A:N3	2:J:227:A:C8	2.63	0.67
3:K:54:A:C3'	3:K:55:A:P	2.83	0.67
3:K:90:A:C2	3:K:91:A:C8	2.82	0.67
3:K:182:A:H2'	3:K:183:A:H8	1.59	0.67
3:K:187:A:O2'	3:K:188:A:H5'	1.95	0.67
3:K:229:A:H2'	3:K:230:A:C8	2.30	0.67
4:L:525:U:H2'	4:L:526:U:H6	1.60	0.67
4:L:547:U:N1	4:L:548:U:C5	2.62	0.67
4:L:563:U:C2'	4:L:564:U:C6	2.69	0.67
4:L:728:U:N3	4:L:729:U:C4	2.62	0.67
4:L:815:U:C2	4:L:816:U:C6	2.83	0.67
5:M:328:U:N3	5:M:329:U:C5	2.63	0.67
5:M:449:U:C2'	5:M:450:U:O5'	2.43	0.67
6:N:320:U:H2'	6:N:321:U:O4'	1.95	0.67
6:N:377:U:C2	6:N:378:U:C6	2.83	0.67
6:N:388:U:O2	6:N:389:U:C6	2.48	0.67
6:N:417:U:O2'	6:N:418:U:C4'	2.43	0.67
1:I:65:A:N3	1:I:66:A:C8	2.63	0.67
1:I:77:A:O2'	1:I:78:A:H5'	1.95	0.67
1:I:206:A:C2	1:I:207:A:C8	2.83	0.67
1:I:308:A:H2'	1:I:309:A:H8	1.60	0.67
1:I:348:A:H2'	1:I:349:A:C5'	2.25	0.67
1:I:393:A:O2'	1:I:394:A:H5'	1.95	0.67
2:J:73:A:O2'	2:J:74:A:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:127:A:N3	2:J:128:A:C8	2.63	0.67
2:J:247:A:N3	2:J:248:A:C8	2.62	0.67
2:J:254:A:C4	2:J:255:A:C8	2.83	0.67
3:K:43:A:H2'	3:K:44:A:C8	2.29	0.67
3:K:152:A:C4	3:K:153:A:N7	2.63	0.67
4:L:490:U:C2	4:L:491:U:C5	2.83	0.67
4:L:567:U:HO2'	4:L:568:U:H5'	1.51	0.67
4:L:611:U:C2'	4:L:612:U:H5'	2.25	0.67
4:L:628:U:O2'	4:L:629:U:H5'	1.95	0.67
4:L:651:U:N3	4:L:652:U:C5	2.63	0.67
4:L:668:U:N3	4:L:669:U:C4	2.63	0.67
4:L:803:U:C2	4:L:804:U:C6	2.82	0.67
4:L:811:U:O2'	4:L:812:U:C4'	2.43	0.67
5:M:347:U:H2'	5:M:348:U:O4'	1.94	0.67
5:M:495:U:H2'	5:M:496:U:C5'	2.24	0.67
6:N:392:U:N3	6:N:393:U:C5	2.62	0.67
1:I:23:A:O2'	1:I:24:A:H5'	1.95	0.66
1:I:41:A:C2	1:I:42:A:N9	2.63	0.66
1:I:150:A:HO2'	1:I:151:A:H5'	1.58	0.66
1:I:157:A:O2'	1:I:158:A:C5'	2.37	0.66
1:I:225:A:C4	1:I:226:A:N7	2.63	0.66
1:I:256:A:N6	1:I:257:A:H62	1.91	0.66
1:I:282:A:N3	1:I:283:A:N7	2.42	0.66
1:I:283:A:N1	1:I:284:A:C5	2.63	0.66
1:I:286:A:C6	1:I:287:A:C5	2.84	0.66
2:J:101:A:H61	2:J:102:A:N6	1.86	0.66
2:J:102:A:H2'	2:J:103:A:O4'	1.95	0.66
2:J:147:A:C2	2:J:148:A:C8	2.82	0.66
2:J:155:A:H2'	2:J:156:A:H8	1.60	0.66
3:K:88:A:N1	3:K:89:A:C5	2.64	0.66
4:L:542:U:N3	4:L:543:U:C5	2.63	0.66
4:L:564:U:H2'	4:L:565:U:H6	1.60	0.66
4:L:635:U:C2	4:L:636:U:C6	2.82	0.66
4:L:722:U:C4	4:L:723:U:O4	2.48	0.66
4:L:777:U:C4	4:L:778:U:C5	2.82	0.66
5:M:330:U:O2	5:M:331:U:C6	2.48	0.66
5:M:435:U:C2'	5:M:436:U:H6	2.01	0.66
5:M:449:U:H2'	5:M:450:U:H6	1.61	0.66
5:M:463:U:HO2'	5:M:464:U:H5'	1.57	0.66
5:M:480:U:O2'	5:M:481:U:O5'	2.13	0.66
5:M:531:U:H2'	5:M:532:U:O5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:333:U:C2'	6:N:334:U:H5'	2.25	0.66
6:N:395:U:C2	6:N:396:U:C5	2.83	0.66
6:N:428:U:C2	6:N:429:U:C6	2.83	0.66
1:I:21:A:C4	1:I:22:A:N7	2.63	0.66
1:I:54:A:O2'	1:I:55:A:P	2.54	0.66
1:I:96:A:C5	1:I:97:A:C5	2.82	0.66
1:I:140:A:H2'	1:I:141:A:H8	1.60	0.66
2:J:105:A:N6	2:J:106:A:N6	2.44	0.66
2:J:142:A:N1	2:J:143:A:C6	2.63	0.66
2:J:229:A:H2'	2:J:230:A:C8	2.31	0.66
3:K:166:A:C4	3:K:167:A:C8	2.83	0.66
4:L:559:U:N3	4:L:560:U:C4	2.63	0.66
4:L:752:U:N3	4:L:753:U:C5	2.63	0.66
5:M:494:U:H2'	5:M:495:U:H6	1.59	0.66
6:N:274:U:H2'	6:N:275:U:H6	1.60	0.66
6:N:376:U:N3	6:N:377:U:C4	2.63	0.66
1:I:67:A:C2'	1:I:68:A:O4'	2.43	0.66
1:I:102:A:C2'	1:I:103:A:C8	2.74	0.66
1:I:164:A:C2	1:I:165:A:N7	2.63	0.66
1:I:164:A:C2'	1:I:165:A:H8	2.07	0.66
1:I:167:A:C2'	1:I:168:A:H5'	2.24	0.66
1:I:231:A:N6	1:I:232:A:H62	1.91	0.66
1:I:232:A:C2	1:I:233:A:C4	2.83	0.66
1:I:252:A:C2'	1:I:253:A:O5'	2.43	0.66
1:I:280:A:N3	1:I:281:A:C8	2.63	0.66
2:J:64:A:C4	2:J:65:A:N7	2.64	0.66
2:J:119:A:C4	2:J:120:A:N7	2.64	0.66
2:J:177:A:O2'	2:J:178:A:H5'	1.95	0.66
2:J:236:A:N1	2:J:237:A:C6	2.64	0.66
2:J:240:A:O2'	2:J:241:A:H5'	1.95	0.66
3:K:122:A:O2'	3:K:123:A:H5'	1.95	0.66
3:K:130:A:N3	3:K:131:A:C8	2.64	0.66
3:K:132:A:C2	3:K:133:A:C4	2.84	0.66
4:L:549:U:H2'	4:L:550:U:C4'	2.24	0.66
4:L:639:U:N3	4:L:640:U:C5	2.63	0.66
4:L:641:U:O2	4:L:642:U:O4'	2.13	0.66
4:L:654:U:O2'	4:L:655:U:H5'	1.94	0.66
4:L:713:U:H2'	4:L:714:U:C6	2.30	0.66
5:M:405:U:C2'	5:M:406:U:O5'	2.43	0.66
5:M:421:U:C4	5:M:422:U:O4	2.48	0.66
5:M:468:U:O2	5:M:469:U:C6	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:526:U:H2'	5:M:527:U:H6	1.59	0.66
6:N:321:U:C2	6:N:322:U:C5	2.83	0.66
6:N:383:U:C2'	6:N:384:U:H5'	2.25	0.66
1:I:26:A:H2'	1:I:27:A:C5'	2.24	0.66
1:I:120:A:C2	4:L:706:U:C2	2.83	0.66
1:I:145:A:C3'	1:I:146:A:P	2.82	0.66
1:I:163:A:C2	1:I:164:A:C8	2.84	0.66
1:I:264:A:C2	1:I:265:A:C8	2.83	0.66
2:J:157:A:O2'	2:J:158:A:C5'	2.40	0.66
2:J:203:A:N3	2:J:204:A:C8	2.64	0.66
2:J:204:A:O5'	2:J:205:A:OP2	2.13	0.66
2:J:207:A:C2'	2:J:208:A:C5'	2.73	0.66
3:K:136:A:N3	3:K:137:A:C8	2.64	0.66
4:L:611:U:C2'	4:L:612:U:C5'	2.74	0.66
4:L:649:U:C4	4:L:650:U:C5	2.83	0.66
4:L:731:U:H2'	4:L:732:U:H6	1.60	0.66
4:L:775:U:C2	4:L:776:U:C6	2.83	0.66
5:M:335:U:N1	5:M:336:U:C5	2.64	0.66
5:M:366:U:C2	5:M:367:U:C5	2.83	0.66
5:M:448:U:C2	5:M:449:U:C6	2.84	0.66
5:M:511:U:H2'	5:M:512:U:H6	1.61	0.66
1:I:41:A:O2'	1:I:42:A:P	2.52	0.66
1:I:65:A:C2'	1:I:66:A:C4'	2.73	0.66
1:I:113:A:N1	1:I:114:A:C6	2.64	0.66
1:I:174:A:N3	1:I:175:A:C8	2.63	0.66
2:J:9:A:H2'	2:J:10:A:H8	1.61	0.66
2:J:75:A:C2'	2:J:76:A:C5'	2.72	0.66
2:J:204:A:H61	2:J:205:A:N6	1.90	0.66
2:J:236:A:N1	2:J:237:A:C5	2.64	0.66
2:J:237:A:C2	2:J:238:A:N7	2.64	0.66
3:K:65:A:H61	3:K:66:A:N6	1.87	0.66
3:K:165:A:H2'	3:K:166:A:C4'	2.25	0.66
3:K:166:A:H2'	3:K:167:A:C5'	2.24	0.66
3:K:208:A:N6	3:K:209:A:N6	2.43	0.66
4:L:766:U:N3	4:L:767:U:C5	2.63	0.66
5:M:375:U:O2'	5:M:376:U:H5'	1.95	0.66
5:M:394:U:H2'	5:M:395:U:H6	1.61	0.66
5:M:514:U:C2'	5:M:515:U:C5'	2.73	0.66
6:N:398:U:O2	6:N:399:U:C6	2.48	0.66
6:N:406:U:N3	6:N:407:U:C5	2.64	0.66
1:I:72:A:C6	1:I:73:A:N7	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:90:A:C4	1:I:91:A:C8	2.84	0.66
1:I:113:A:C2'	1:I:114:A:H8	2.08	0.66
1:I:332:A:O2'	1:I:333:A:H5'	1.94	0.66
1:I:363:A:H2'	1:I:364:A:H8	1.58	0.66
1:I:393:A:H2'	1:I:394:A:O4'	1.96	0.66
2:J:11:A:C3'	2:J:12:A:H5'	2.01	0.66
2:J:121:A:HO2'	2:J:122:A:H5'	1.59	0.66
2:J:145:A:C4	2:J:146:A:C8	2.84	0.66
4:L:513:U:C2'	4:L:514:U:C5'	2.72	0.66
4:L:521:U:C2'	4:L:522:U:C5'	2.73	0.66
4:L:684:U:O4	4:L:685:U:O4	2.12	0.66
4:L:801:U:O2'	4:L:802:U:H5'	1.95	0.66
5:M:324:U:C2	5:M:325:U:C6	2.83	0.66
5:M:347:U:O2	5:M:348:U:C6	2.48	0.66
6:N:321:U:O4	6:N:322:U:O4	2.13	0.66
6:N:431:U:H2'	6:N:432:U:O4'	1.96	0.66
6:N:501:U:HO2'	6:N:502:U:H5'	1.58	0.66
1:I:112:A:C2'	1:I:113:A:O4'	2.44	0.66
1:I:131:A:C6	1:I:132:A:C5	2.84	0.66
1:I:316:A:C5	1:I:317:A:N7	2.63	0.66
1:I:326:A:C2'	1:I:327:A:C5'	2.74	0.66
2:J:105:A:H2'	2:J:106:A:C8	2.30	0.66
2:J:108:A:C4	2:J:109:A:C8	2.83	0.66
2:J:192:A:C2	2:J:193:A:N9	2.63	0.66
2:J:214:A:H2'	2:J:215:A:C5'	2.25	0.66
2:J:271:A:C3'	2:J:272:A:P	2.84	0.66
3:K:106:A:C2'	3:K:107:A:O4'	2.43	0.66
3:K:127:A:C2'	3:K:128:A:H5'	2.26	0.66
3:K:171:A:C2	3:K:172:A:C8	2.83	0.66
3:K:217:A:C6	3:K:218:A:N6	2.64	0.66
4:L:424:U:H2'	4:L:425:U:H6	1.61	0.66
4:L:516:U:C2	4:L:517:U:C6	2.84	0.66
4:L:579:U:C2	4:L:580:U:C5	2.83	0.66
4:L:638:U:C2'	4:L:639:U:C4'	2.73	0.66
4:L:727:U:O2'	4:L:728:U:C5'	2.43	0.66
4:L:749:U:C2'	4:L:750:U:O5'	2.43	0.66
4:L:750:U:C2	4:L:751:U:C4	2.83	0.66
4:L:778:U:C2'	4:L:779:U:H5'	2.25	0.66
5:M:328:U:O2	5:M:329:U:C5	2.49	0.66
5:M:378:U:H2'	5:M:379:U:H6	1.61	0.66
5:M:451:U:C4	5:M:452:U:C4	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:274:U:C2'	6:N:275:U:C5'	2.73	0.66
6:N:321:U:N3	6:N:322:U:C4	2.64	0.66
6:N:383:U:O2'	6:N:384:U:C5'	2.37	0.66
6:N:384:U:C2	6:N:385:U:C6	2.83	0.66
6:N:388:U:C2	6:N:389:U:C5	2.84	0.66
6:N:413:U:C2	6:N:414:U:C5	2.84	0.66
1:I:10:A:C2	1:I:11:A:C8	2.83	0.66
1:I:19:A:C4	1:I:20:A:C8	2.84	0.66
1:I:66:A:C2	1:I:67:A:C4	2.84	0.66
1:I:109:A:C4	1:I:110:A:C8	2.84	0.66
1:I:164:A:O2'	1:I:165:A:C5'	2.44	0.66
1:I:206:A:O2'	1:I:207:A:P	2.54	0.66
1:I:261:A:C6	1:I:262:A:C5	2.84	0.66
1:I:286:A:H2'	1:I:287:A:O4'	1.95	0.66
1:I:291:A:H2'	1:I:292:A:C5'	2.26	0.66
1:I:310:A:C4	1:I:311:A:C8	2.84	0.66
2:J:70:A:C4	2:J:71:A:C8	2.84	0.66
2:J:159:A:C6	2:J:160:A:C6	2.83	0.66
2:J:175:A:O2'	2:J:176:A:H5'	1.96	0.66
3:K:87:A:C2	3:K:88:A:C8	2.84	0.66
3:K:112:A:H61	3:K:113:A:N6	1.90	0.66
3:K:119:A:N3	3:K:120:A:C1'	2.59	0.66
3:K:204:A:C2'	3:K:205:A:C8	2.77	0.66
4:L:516:U:H2'	4:L:517:U:C6	2.31	0.66
4:L:672:U:C4	4:L:673:U:O4	2.48	0.66
4:L:677:U:C2'	4:L:678:U:C5'	2.73	0.66
4:L:682:U:O2'	4:L:683:U:C4'	2.44	0.66
4:L:684:U:H2'	4:L:685:U:H6	1.61	0.66
4:L:689:U:O2'	4:L:690:U:C5'	2.43	0.66
4:L:719:U:O2	4:L:720:U:C5	2.48	0.66
4:L:749:U:C2	4:L:750:U:C6	2.83	0.66
5:M:329:U:C2	5:M:330:U:C5	2.83	0.66
5:M:521:U:H2'	5:M:522:U:H6	1.61	0.66
5:M:528:U:N3	5:M:529:U:C5	2.64	0.66
6:N:278:U:H2'	6:N:279:U:C5'	2.26	0.66
6:N:377:U:H2'	6:N:378:U:C6	2.26	0.66
6:N:383:U:H2'	6:N:384:U:C6	2.31	0.66
6:N:421:U:N3	6:N:422:U:C5	2.64	0.66
6:N:422:U:N3	6:N:423:U:C5	2.63	0.66
6:N:434:U:C2'	6:N:435:U:H5'	2.25	0.66
6:N:476:U:H2'	6:N:477:U:C5'	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:12:A:N3	1:I:13:A:C8	2.64	0.66
1:I:30:A:N3	1:I:31:A:C8	2.63	0.66
1:I:132:A:C2'	1:I:133:A:C4'	2.73	0.66
1:I:172:A:C2'	1:I:173:A:H5'	2.23	0.66
1:I:175:A:C2	1:I:176:A:C6	2.84	0.66
1:I:217:A:O2'	1:I:218:A:H5'	1.96	0.66
1:I:226:A:N1	1:I:227:A:C5	2.64	0.66
1:I:240:A:C4	1:I:241:A:N7	2.64	0.66
1:I:262:A:C2	1:I:263:A:C4	2.84	0.66
1:I:266:A:N3	1:I:267:A:N9	2.44	0.66
1:I:280:A:N1	1:I:281:A:N6	2.42	0.66
1:I:282:A:C2	1:I:283:A:C8	2.84	0.66
1:I:304:A:C2	1:I:305:A:C8	2.84	0.66
1:I:386:A:C4	1:I:387:A:N7	2.63	0.66
2:J:161:A:C2'	2:J:162:A:O5'	2.42	0.66
3:K:132:A:C2	3:K:133:A:N9	2.64	0.66
3:K:139:A:O2'	3:K:140:A:C5'	2.43	0.66
4:L:420:U:C2	4:L:421:U:C5	2.83	0.66
4:L:496:U:C2	4:L:497:U:C5	2.84	0.66
4:L:506:U:H2'	4:L:507:U:H6	1.60	0.66
4:L:532:U:C2	4:L:533:U:C6	2.84	0.66
4:L:721:U:H2'	4:L:722:U:C6	2.29	0.66
4:L:755:U:H2'	4:L:756:U:H6	1.61	0.66
4:L:755:U:N3	4:L:756:U:C5	2.63	0.66
4:L:767:U:N3	4:L:768:U:C4	2.63	0.66
4:L:769:U:O2	4:L:770:U:C6	2.49	0.66
5:M:395:U:H2'	5:M:396:U:H6	1.61	0.66
5:M:454:U:C5	5:M:455:U:C5	2.84	0.66
5:M:519:U:O2'	5:M:520:U:H5'	1.95	0.66
6:N:391:U:O2'	6:N:392:U:H5'	1.94	0.66
6:N:435:U:O2	6:N:436:U:C6	2.49	0.66
6:N:486:U:C2'	6:N:487:U:H6	2.09	0.66
1:I:55:A:C2'	1:I:56:A:O5'	2.43	0.66
1:I:66:A:C2	1:I:67:A:C5	2.84	0.66
1:I:113:A:C6	1:I:114:A:C6	2.84	0.66
1:I:143:A:C6	1:I:144:A:N6	2.64	0.66
1:I:405:A:C6	1:I:406:A:C6	2.84	0.66
2:J:23:A:C2	2:J:24:A:C8	2.84	0.66
2:J:79:A:HO2'	2:J:80:A:H5'	1.57	0.66
2:J:93:A:H2'	2:J:94:A:O4'	1.96	0.66
2:J:119:A:C6	2:J:120:A:C6	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:166:A:C4	2:J:167:A:C8	2.84	0.66
2:J:224:A:N6	5:M:330:U:O4	2.29	0.66
3:K:80:A:H2'	3:K:81:A:O4'	1.96	0.66
4:L:449:U:H2'	4:L:450:U:H6	1.61	0.66
4:L:572:U:O2	4:L:573:U:C6	2.49	0.66
4:L:636:U:H2'	4:L:637:U:C6	2.31	0.66
4:L:647:U:H2'	4:L:648:U:C6	2.31	0.66
4:L:696:U:H2'	4:L:697:U:H6	1.60	0.66
4:L:757:U:O4	4:L:758:U:O4	2.14	0.66
5:M:290:U:H2'	5:M:291:U:O4'	1.95	0.66
5:M:308:U:C3'	5:M:309:U:P	2.82	0.66
5:M:484:U:H2'	5:M:485:U:H6	1.61	0.66
5:M:491:U:C2'	5:M:492:U:H5'	2.26	0.66
6:N:280:U:H2'	6:N:281:U:O5'	1.95	0.66
6:N:427:U:N3	6:N:428:U:C5	2.64	0.66
1:I:9:A:N3	1:I:10:A:C8	2.64	0.65
1:I:63:A:C5	1:I:64:A:N7	2.64	0.65
1:I:86:A:C6	1:I:87:A:N6	2.61	0.65
1:I:231:A:C4	1:I:232:A:N7	2.62	0.65
1:I:257:A:N3	1:I:258:A:C8	2.63	0.65
2:J:48:A:C2'	2:J:49:A:C5'	2.73	0.65
2:J:192:A:C2'	2:J:193:A:C5'	2.73	0.65
3:K:63:A:HO3'	3:K:64:A:P	2.18	0.65
3:K:73:A:H2'	3:K:74:A:O4'	1.96	0.65
3:K:105:A:N6	3:K:106:A:N6	2.43	0.65
3:K:154:A:H2'	3:K:155:A:H8	1.61	0.65
3:K:207:A:H2'	3:K:208:A:C8	2.30	0.65
4:L:575:U:H2'	4:L:576:U:H6	1.60	0.65
4:L:613:U:H2'	4:L:614:U:H6	1.61	0.65
4:L:622:U:C2'	4:L:623:U:O5'	2.40	0.65
4:L:724:U:H2'	4:L:725:U:C4'	2.26	0.65
4:L:753:U:C2	4:L:754:U:C5	2.84	0.65
4:L:764:U:C5	4:L:765:U:C5	2.84	0.65
5:M:324:U:N3	5:M:325:U:C5	2.64	0.65
5:M:451:U:H2'	5:M:452:U:H6	1.61	0.65
5:M:457:U:N3	5:M:458:U:C5	2.64	0.65
5:M:481:U:N3	5:M:482:U:C4	2.64	0.65
5:M:489:U:C2	5:M:490:U:C5	2.83	0.65
6:N:335:U:C2	6:N:336:U:C5	2.84	0.65
6:N:403:U:H2'	6:N:404:U:H6	1.62	0.65
6:N:419:U:H2'	6:N:420:U:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:450:U:O2'	6:N:451:U:O4'	2.12	0.65
6:N:501:U:C2'	6:N:502:U:C5'	2.74	0.65
1:I:42:A:C4	1:I:43:A:C8	2.85	0.65
1:I:135:A:C2	1:I:136:A:C4	2.84	0.65
1:I:191:A:C4	1:I:192:A:C8	2.84	0.65
1:I:253:A:C6	1:I:254:A:C6	2.83	0.65
1:I:286:A:C6	1:I:287:A:N6	2.64	0.65
1:I:288:A:C2'	1:I:289:A:H5'	2.26	0.65
1:I:317:A:C2	1:I:318:A:C4	2.84	0.65
1:I:406:A:O2'	1:I:407:A:H5'	1.95	0.65
2:J:99:A:C2	2:J:100:A:C4	2.84	0.65
2:J:102:A:N6	2:J:103:A:N6	2.44	0.65
2:J:236:A:C4	2:J:237:A:N7	2.63	0.65
3:K:113:A:H2'	3:K:114:A:C8	2.32	0.65
3:K:128:A:H2'	3:K:129:A:H8	1.60	0.65
3:K:155:A:N6	3:K:156:A:H62	1.94	0.65
4:L:425:U:C2'	4:L:426:U:C5'	2.74	0.65
4:L:430:U:H2'	4:L:431:U:C6	2.31	0.65
4:L:451:U:C4	4:L:452:U:O4	2.49	0.65
4:L:507:U:C2	4:L:508:U:C6	2.84	0.65
4:L:593:U:H2'	4:L:594:U:C6	2.29	0.65
4:L:711:U:O2'	4:L:712:U:H5'	1.94	0.65
4:L:723:U:C2'	4:L:724:U:H6	2.10	0.65
4:L:724:U:C2	4:L:725:U:C6	2.83	0.65
4:L:753:U:H2'	4:L:754:U:C6	2.30	0.65
4:L:764:U:H2'	4:L:765:U:C6	2.31	0.65
5:M:336:U:N3	5:M:337:U:C6	2.63	0.65
5:M:370:U:N3	5:M:371:U:O4	2.29	0.65
5:M:430:U:C4	5:M:431:U:C4	2.83	0.65
5:M:462:U:C2'	5:M:463:U:H5'	2.26	0.65
5:M:498:U:O2'	5:M:499:U:P	2.54	0.65
5:M:534:U:H2'	5:M:535:U:H6	1.59	0.65
6:N:374:U:C2'	6:N:375:U:H5'	2.25	0.65
6:N:442:U:O2	6:N:443:U:C6	2.50	0.65
6:N:482:U:N3	6:N:483:U:C5	2.64	0.65
1:I:45:A:C2	1:I:46:A:C5	2.84	0.65
1:I:94:A:N3	1:I:95:A:C8	2.64	0.65
1:I:132:A:H2'	1:I:133:A:C4'	2.26	0.65
1:I:136:A:C4	1:I:137:A:C8	2.84	0.65
1:I:155:A:O2'	1:I:156:A:H5'	1.96	0.65
1:I:186:A:H2	1:I:187:A:C4	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:196:A:C2	1:I:197:A:C8	2.84	0.65
1:I:273:A:C2'	1:I:274:A:O4'	2.38	0.65
1:I:375:A:C2	1:I:376:A:N7	2.65	0.65
2:J:205:A:N3	2:J:206:A:N9	2.44	0.65
3:K:89:A:N1	3:K:90:A:C6	2.64	0.65
3:K:114:A:H2	3:K:115:A:C4	2.12	0.65
4:L:504:U:H2'	4:L:505:U:C5'	2.27	0.65
4:L:509:U:H2'	4:L:510:U:O4'	1.96	0.65
4:L:561:U:C2	4:L:562:U:C6	2.85	0.65
4:L:563:U:C2	4:L:564:U:C6	2.84	0.65
4:L:670:U:H2'	4:L:671:U:H6	1.62	0.65
4:L:751:U:C2'	4:L:752:U:O5'	2.40	0.65
4:L:759:U:O2'	4:L:760:U:C4'	2.44	0.65
4:L:760:U:C2	4:L:761:U:C5	2.84	0.65
5:M:330:U:C2	5:M:331:U:C5	2.84	0.65
5:M:387:U:C2	5:M:388:U:C4	2.84	0.65
5:M:417:U:H2'	5:M:418:U:H6	1.61	0.65
5:M:424:U:C2	5:M:425:U:C5	2.84	0.65
5:M:434:U:C2'	5:M:435:U:H5'	2.26	0.65
5:M:511:U:C4	5:M:512:U:C5	2.83	0.65
5:M:513:U:C2'	5:M:514:U:H5'	2.26	0.65
6:N:294:U:O2'	6:N:295:U:C5'	2.41	0.65
1:I:82:A:C6	1:I:83:A:C6	2.84	0.65
1:I:102:A:C2'	1:I:103:A:H8	2.03	0.65
1:I:103:A:N3	1:I:104:A:N9	2.44	0.65
1:I:109:A:N3	1:I:110:A:C4	2.61	0.65
1:I:228:A:C4	1:I:229:A:C8	2.84	0.65
1:I:231:A:N1	1:I:232:A:C5	2.65	0.65
1:I:260:A:N3	1:I:261:A:C8	2.64	0.65
1:I:269:A:C6	1:I:270:A:C5	2.84	0.65
1:I:287:A:C2	1:I:288:A:C4	2.84	0.65
1:I:338:A:C5	1:I:339:A:N7	2.64	0.65
1:I:388:A:O2'	1:I:389:A:C4'	2.45	0.65
2:J:25:A:C2	2:J:26:A:N7	2.64	0.65
2:J:27:A:C2	2:J:28:A:C5	2.84	0.65
2:J:71:A:H2'	2:J:72:A:C8	2.31	0.65
2:J:97:A:O2'	2:J:98:A:O5'	2.13	0.65
2:J:131:A:C6	2:J:132:A:N6	2.64	0.65
2:J:160:A:HO2'	2:J:161:A:C4'	2.07	0.65
2:J:198:A:C2'	2:J:199:A:H5'	2.25	0.65
4:L:478:U:C2'	4:L:479:U:C5'	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:583:U:C4	4:L:584:U:C4	2.84	0.65
4:L:649:U:H2'	4:L:650:U:H6	1.60	0.65
4:L:658:U:C2'	4:L:659:U:C5'	2.75	0.65
4:L:706:U:C2'	4:L:707:U:H5'	2.26	0.65
4:L:741:U:C2	4:L:742:U:C5	2.83	0.65
5:M:302:U:O2'	5:M:303:U:H5'	1.97	0.65
5:M:318:U:C2	5:M:319:U:C6	2.85	0.65
6:N:393:U:C2	6:N:394:U:C5	2.84	0.65
6:N:406:U:C2	6:N:407:U:C5	2.85	0.65
6:N:476:U:C2	6:N:477:U:C6	2.84	0.65
1:I:20:A:C4	1:I:21:A:C8	2.85	0.65
1:I:38:A:C2	1:I:39:A:C8	2.84	0.65
1:I:46:A:H2'	1:I:47:A:H8	1.62	0.65
1:I:79:A:H2'	1:I:80:A:C5'	2.25	0.65
1:I:81:A:C2'	1:I:82:A:O5'	2.44	0.65
1:I:122:A:C2	1:I:123:A:C4	2.84	0.65
1:I:133:A:C2	1:I:134:A:N9	2.65	0.65
1:I:306:A:H2'	1:I:307:A:C5'	2.27	0.65
1:I:314:A:H2'	1:I:315:A:H8	1.60	0.65
1:I:387:A:C2'	1:I:388:A:H5'	2.26	0.65
2:J:39:A:O2'	2:J:40:A:C5'	2.36	0.65
2:J:102:A:C5	2:J:103:A:N7	2.64	0.65
2:J:152:A:C2'	2:J:153:A:H5'	2.26	0.65
2:J:181:A:C2	2:J:182:A:N7	2.65	0.65
2:J:182:A:O5'	2:J:183:A:OP2	2.13	0.65
3:K:4:A:H2'	3:K:5:A:H8	1.61	0.65
3:K:204:A:C2'	3:K:205:A:H8	2.10	0.65
4:L:477:U:H2'	4:L:478:U:C4'	2.27	0.65
4:L:487:U:C2'	4:L:488:U:O5'	2.45	0.65
4:L:521:U:H2'	4:L:522:U:C5'	2.26	0.65
4:L:569:U:HO2'	4:L:570:U:H5'	1.61	0.65
4:L:583:U:C4	4:L:584:U:O4	2.50	0.65
4:L:673:U:H2'	4:L:674:U:O5'	1.96	0.65
4:L:697:U:H2'	4:L:698:U:H6	1.61	0.65
4:L:715:U:H2'	4:L:716:U:C5	2.29	0.65
4:L:729:U:H2'	4:L:730:U:H6	1.59	0.65
4:L:793:U:C2	4:L:794:U:C6	2.84	0.65
5:M:360:U:O2	5:M:361:U:C6	2.50	0.65
5:M:376:U:C2	5:M:377:U:C6	2.84	0.65
5:M:377:U:C2	5:M:378:U:C5	2.84	0.65
5:M:419:U:O2'	5:M:420:U:C4'	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:469:U:H2'	5:M:470:U:C5	2.31	0.65
6:N:420:U:H2'	6:N:421:U:O5'	1.96	0.65
6:N:473:U:C2	6:N:474:U:C6	2.84	0.65
6:N:512:U:C2	6:N:513:U:C5	2.85	0.65
1:I:59:A:N3	1:I:60:A:C8	2.65	0.65
1:I:66:A:H2'	1:I:67:A:C5'	2.25	0.65
1:I:106:A:N3	1:I:107:A:N7	2.44	0.65
1:I:261:A:C6	1:I:262:A:C6	2.84	0.65
1:I:329:A:N6	1:I:330:A:N6	2.44	0.65
2:J:69:A:C2'	2:J:70:A:O4'	2.42	0.65
2:J:124:A:C2'	2:J:125:A:O5'	2.44	0.65
2:J:233:A:C2'	2:J:234:A:C5'	2.74	0.65
4:L:763:U:C2'	4:L:764:U:C6	2.73	0.65
5:M:298:U:C2	5:M:299:U:C6	2.84	0.65
5:M:436:U:H2'	5:M:437:U:C6	2.31	0.65
5:M:494:U:C2	5:M:495:U:C5	2.84	0.65
6:N:451:U:H2'	6:N:452:U:C6	2.32	0.65
6:N:451:U:C2	6:N:452:U:C6	2.85	0.65
1:I:10:A:O2'	1:I:11:A:C5'	2.44	0.65
1:I:48:A:O2'	1:I:49:A:C5'	2.34	0.65
1:I:107:A:C6	1:I:108:A:C5	2.83	0.65
1:I:131:A:N6	1:I:132:A:H61	1.89	0.65
1:I:142:A:H2'	1:I:143:A:C8	2.32	0.65
1:I:232:A:C6	1:I:233:A:C5	2.84	0.65
1:I:251:A:O2'	1:I:252:A:H5'	1.95	0.65
1:I:327:A:C2	1:I:328:A:N7	2.65	0.65
1:I:373:A:H61	1:I:374:A:N6	1.87	0.65
2:J:28:A:H61	2:J:29:A:N6	1.95	0.65
2:J:50:A:H2'	2:J:51:A:H8	1.62	0.65
2:J:81:A:O2'	2:J:82:A:C5'	2.35	0.65
2:J:160:A:H2'	2:J:161:A:C8	2.31	0.65
2:J:181:A:C2	2:J:182:A:C8	2.85	0.65
3:K:70:A:O2'	3:K:71:A:H5'	1.96	0.65
3:K:197:A:H2'	3:K:198:A:H8	1.60	0.65
3:K:215:A:H2'	3:K:216:A:C8	2.32	0.65
4:L:599:U:C2'	4:L:600:U:H6	2.08	0.65
4:L:661:U:O2'	4:L:662:U:O5'	2.15	0.65
4:L:696:U:H2'	4:L:697:U:C6	2.32	0.65
4:L:723:U:H2'	4:L:724:U:C1'	2.25	0.65
5:M:332:U:N3	5:M:333:U:C5	2.65	0.65
5:M:392:U:HO2'	5:M:393:U:C4'	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:410:U:N1	5:M:411:U:C5	2.65	0.65
5:M:540:U:N3	5:M:541:U:C5	2.64	0.65
6:N:424:U:C2'	6:N:425:U:O4'	2.44	0.65
6:N:449:U:H2'	6:N:450:U:C5'	2.27	0.65
6:N:489:U:H2'	6:N:490:U:C6	2.32	0.65
1:I:18:A:C5	1:I:19:A:N7	2.65	0.65
1:I:60:A:H2'	1:I:61:A:H8	1.62	0.65
1:I:66:A:N6	1:I:67:A:N6	2.44	0.65
1:I:90:A:H2'	1:I:91:A:H8	1.61	0.65
1:I:239:A:H2'	1:I:240:A:H8	1.62	0.65
1:I:260:A:C2	1:I:261:A:C4	2.85	0.65
1:I:295:A:C2'	1:I:296:A:H5'	2.26	0.65
1:I:314:A:C2'	1:I:315:A:H5'	2.27	0.65
2:J:68:A:C5	2:J:69:A:N7	2.65	0.65
2:J:150:A:O2'	2:J:151:A:H5'	1.97	0.65
2:J:151:A:C2'	2:J:152:A:H5'	2.27	0.65
3:K:120:A:N6	3:K:121:A:H62	1.94	0.65
3:K:204:A:C4	3:K:205:A:N7	2.65	0.65
4:L:516:U:O2'	4:L:517:U:H5'	1.97	0.65
4:L:530:U:C2'	4:L:531:U:H5'	2.27	0.65
4:L:605:U:C2'	4:L:606:U:H5'	2.27	0.65
4:L:722:U:C1'	4:L:723:U:H5	2.09	0.65
4:L:754:U:C2	4:L:755:U:C5	2.85	0.65
4:L:764:U:H2'	4:L:765:U:H6	1.59	0.65
4:L:802:U:H2'	4:L:803:U:C6	2.30	0.65
5:M:288:U:N3	5:M:289:U:C5	2.65	0.65
5:M:337:U:C4	5:M:338:U:C5	2.84	0.65
5:M:418:U:C4	5:M:419:U:C4	2.85	0.65
5:M:510:U:C2'	5:M:511:U:C6	2.69	0.65
6:N:318:U:C2	6:N:319:U:C5	2.84	0.65
6:N:323:U:C2'	6:N:324:U:C5'	2.75	0.65
6:N:368:U:O2'	6:N:369:U:C5'	2.36	0.65
6:N:387:U:H2'	6:N:388:U:C6	2.32	0.65
1:I:31:A:N3	1:I:32:A:N7	2.44	0.65
1:I:53:A:O2'	1:I:54:A:C5'	2.45	0.65
1:I:136:A:N3	1:I:137:A:C8	2.65	0.65
1:I:153:A:H2'	1:I:154:A:C8	2.31	0.65
1:I:198:A:N3	1:I:199:A:C8	2.65	0.65
1:I:237:A:C2	1:I:238:A:C4	2.85	0.65
1:I:283:A:H2'	1:I:284:A:C8	2.31	0.65
1:I:324:A:C2	1:I:325:A:C5	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:377:A:O2'	1:I:378:A:H5'	1.97	0.65
2:J:160:A:H2'	2:J:161:A:C5'	2.26	0.65
2:J:230:A:H2'	2:J:231:A:O4'	1.96	0.65
2:J:253:A:O2'	2:J:254:A:H5'	1.96	0.65
3:K:71:A:O2'	3:K:72:A:H5'	1.96	0.65
3:K:229:A:H2'	3:K:230:A:H8	1.61	0.65
4:L:437:U:O2'	4:L:438:U:P	2.54	0.65
4:L:483:U:C2'	4:L:484:U:H5'	2.27	0.65
4:L:573:U:C2	4:L:574:U:C6	2.85	0.65
4:L:593:U:C2	4:L:594:U:C6	2.85	0.65
4:L:712:U:N3	4:L:713:U:C5	2.65	0.65
4:L:719:U:O2	4:L:720:U:C6	2.49	0.65
4:L:766:U:C6	4:L:767:U:H5	2.13	0.65
4:L:791:U:H2'	4:L:792:U:H6	1.62	0.65
4:L:810:U:C3'	4:L:811:U:C5'	2.45	0.65
4:L:814:U:C2'	4:L:815:U:O5'	2.45	0.65
5:M:288:U:C2'	5:M:289:U:C5'	2.74	0.65
5:M:352:U:O2'	5:M:353:U:C5'	2.39	0.65
5:M:428:U:H2'	5:M:429:U:O5'	1.97	0.65
5:M:449:U:H2'	5:M:450:U:O5'	1.97	0.65
6:N:406:U:C2'	6:N:407:U:O4'	2.43	0.65
6:N:411:U:H2'	6:N:412:U:O5'	1.96	0.65
6:N:413:U:H2'	6:N:414:U:H6	1.62	0.65
6:N:423:U:H2'	6:N:424:U:H6	1.60	0.65
1:I:102:A:C4	1:I:103:A:N7	2.65	0.65
1:I:205:A:C2	1:I:206:A:N7	2.65	0.65
1:I:252:A:C2	1:I:253:A:C5	2.84	0.65
1:I:267:A:H2'	1:I:268:A:H8	1.61	0.65
2:J:54:A:C4	2:J:55:A:C8	2.84	0.65
2:J:87:A:C2	2:J:88:A:N7	2.65	0.65
2:J:89:A:N1	2:J:90:A:C6	2.65	0.65
2:J:254:A:H2'	2:J:255:A:C5'	2.26	0.65
3:K:95:A:C2	3:K:96:A:C4	2.84	0.65
4:L:516:U:C2'	4:L:517:U:C5'	2.75	0.65
4:L:635:U:O2'	4:L:636:U:C5'	2.38	0.65
4:L:650:U:C2	4:L:651:U:C6	2.85	0.65
4:L:651:U:C2	4:L:652:U:C5	2.85	0.65
4:L:704:U:C2	4:L:705:U:C6	2.84	0.65
4:L:799:U:C2	4:L:800:U:C6	2.85	0.65
4:L:810:U:C2'	4:L:811:U:H6	2.06	0.65
5:M:509:U:C2	5:M:510:U:C6	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:517:U:C2	5:M:518:U:C5	2.85	0.65
6:N:396:U:N3	6:N:397:U:C5	2.64	0.65
6:N:441:U:H2'	6:N:442:U:H6	1.61	0.65
6:N:521:U:O2'	6:N:522:U:H5'	1.97	0.65
1:I:107:A:O5'	1:I:108:A:OP2	2.14	0.64
1:I:112:A:C4	1:I:113:A:C8	2.86	0.64
1:I:135:A:N3	1:I:136:A:C8	2.65	0.64
1:I:163:A:C2'	1:I:164:A:O5'	2.44	0.64
1:I:180:A:H2	1:I:181:A:C4	2.13	0.64
1:I:198:A:O2'	1:I:199:A:P	2.54	0.64
1:I:253:A:C5	1:I:254:A:N7	2.65	0.64
2:J:64:A:C4	2:J:65:A:C8	2.86	0.64
2:J:66:A:N3	2:J:67:A:C8	2.64	0.64
2:J:200:A:C2	2:J:201:A:C5	2.85	0.64
3:K:5:A:C2'	3:K:6:A:O4'	2.45	0.64
3:K:5:A:C2'	3:K:6:A:H5'	2.27	0.64
3:K:98:A:C2'	3:K:99:A:H5'	2.26	0.64
3:K:100:A:C6	3:K:101:A:C5	2.85	0.64
3:K:109:A:C2'	3:K:110:A:H5'	2.26	0.64
3:K:132:A:H2'	3:K:133:A:O5'	1.95	0.64
3:K:257:A:H2'	3:K:258:A:H8	1.62	0.64
4:L:451:U:C3'	4:L:452:U:OP2	2.45	0.64
4:L:466:U:H2'	4:L:467:U:H6	1.63	0.64
4:L:477:U:O2'	4:L:478:U:C4'	2.44	0.64
4:L:512:U:H2'	4:L:513:U:H6	1.62	0.64
4:L:547:U:C2	4:L:548:U:C4	2.85	0.64
4:L:585:U:H2'	4:L:586:U:O5'	1.96	0.64
4:L:601:U:C2'	4:L:602:U:C5'	2.75	0.64
4:L:650:U:C2'	4:L:651:U:H5'	2.27	0.64
5:M:304:U:N3	5:M:305:U:O4	2.30	0.64
5:M:537:U:H2'	5:M:538:U:H5'	1.77	0.64
6:N:365:U:C2	6:N:366:U:C5	2.85	0.64
1:I:64:A:C2	1:I:65:A:C4	2.85	0.64
1:I:69:A:C2	1:I:70:A:C8	2.85	0.64
1:I:151:A:N3	1:I:152:A:C8	2.65	0.64
1:I:270:A:C2'	1:I:271:A:O5'	2.41	0.64
2:J:29:A:C5	2:J:30:A:N7	2.65	0.64
2:J:85:A:N3	2:J:86:A:C8	2.65	0.64
2:J:161:A:C2	2:J:162:A:N9	2.65	0.64
2:J:201:A:C4	2:J:202:A:C8	2.84	0.64
2:J:225:A:O2'	2:J:226:A:C5'	2.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:63:A:C3'	3:K:64:A:P	2.84	0.64
3:K:101:A:N1	3:K:102:A:C5	2.65	0.64
3:K:119:A:N3	3:K:120:A:O4'	2.30	0.64
3:K:155:A:C6	3:K:156:A:N7	2.63	0.64
4:L:580:U:C2	4:L:581:U:C6	2.86	0.64
5:M:392:U:C2'	5:M:393:U:O5'	2.44	0.64
5:M:410:U:C2'	5:M:411:U:C6	2.79	0.64
5:M:437:U:H2'	5:M:438:U:C5'	2.27	0.64
5:M:437:U:H2'	5:M:438:U:O4'	1.97	0.64
5:M:519:U:H2'	5:M:520:U:H6	1.61	0.64
6:N:330:U:H2'	6:N:331:U:C6	2.31	0.64
6:N:364:U:H2'	6:N:365:U:O5'	1.97	0.64
6:N:378:U:C4	6:N:379:U:C4	2.83	0.64
6:N:472:U:C2	6:N:473:U:C5	2.85	0.64
1:I:60:A:N6	1:I:61:A:H62	1.96	0.64
1:I:87:A:C4	1:I:88:A:C8	2.84	0.64
1:I:97:A:C2	1:I:98:A:N9	2.65	0.64
1:I:102:A:C4	1:I:103:A:C8	2.86	0.64
1:I:186:A:N3	1:I:187:A:N7	2.41	0.64
1:I:234:A:O2'	1:I:235:A:H5'	1.97	0.64
1:I:261:A:C2	1:I:262:A:C4	2.85	0.64
1:I:279:A:H2'	1:I:280:A:C5'	2.27	0.64
1:I:375:A:O2'	1:I:376:A:H5'	1.97	0.64
2:J:83:A:C5	2:J:84:A:N7	2.66	0.64
2:J:102:A:C4	2:J:103:A:C8	2.85	0.64
2:J:201:A:C6	2:J:202:A:C5	2.85	0.64
3:K:86:A:O2'	3:K:87:A:H5'	1.97	0.64
3:K:92:A:O2'	3:K:93:A:C5'	2.32	0.64
3:K:119:A:N3	3:K:120:A:C8	2.66	0.64
4:L:507:U:H2'	4:L:508:U:H6	1.61	0.64
4:L:518:U:O2	4:L:519:U:C6	2.51	0.64
4:L:622:U:O2'	4:L:623:U:C4'	2.45	0.64
4:L:688:U:C2	4:L:689:U:C6	2.85	0.64
4:L:698:U:H2'	4:L:699:U:C5'	2.25	0.64
4:L:708:U:C2'	4:L:709:U:H5'	2.26	0.64
5:M:324:U:N3	5:M:325:U:C4	2.65	0.64
5:M:337:U:N3	5:M:338:U:C6	2.64	0.64
5:M:347:U:HO2'	5:M:348:U:C5'	1.82	0.64
5:M:353:U:N3	5:M:354:U:C5	2.65	0.64
5:M:392:U:C2'	5:M:393:U:C4'	2.75	0.64
6:N:318:U:H2'	6:N:319:U:C5	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:323:U:H2'	6:N:324:U:O4'	1.97	0.64
6:N:449:U:H2'	6:N:450:U:C6	2.28	0.64
6:N:450:U:C2	6:N:451:U:C5	2.85	0.64
6:N:495:U:H2'	6:N:496:U:C6	2.30	0.64
1:I:16:A:C4	1:I:17:A:C8	2.85	0.64
1:I:19:A:C2'	1:I:20:A:H5'	2.27	0.64
1:I:172:A:C2	1:I:173:A:C4	2.86	0.64
1:I:187:A:C4	1:I:188:A:C8	2.85	0.64
1:I:229:A:C2	1:I:230:A:C4	2.85	0.64
1:I:235:A:C2	1:I:236:A:C5	2.84	0.64
1:I:235:A:C2	1:I:236:A:C8	2.85	0.64
1:I:238:A:C5	1:I:239:A:N7	2.65	0.64
2:J:123:A:O2'	2:J:124:A:C5'	2.42	0.64
3:K:115:A:N6	3:K:116:A:N6	2.45	0.64
3:K:164:A:C6	3:K:165:A:C6	2.86	0.64
4:L:574:U:C2	4:L:575:U:C4	2.84	0.64
4:L:574:U:N1	4:L:575:U:C5	2.66	0.64
4:L:577:U:O4	4:L:578:U:O4	2.15	0.64
4:L:645:U:N3	4:L:646:U:O4	2.30	0.64
4:L:646:U:C2'	4:L:647:U:H5'	2.27	0.64
4:L:669:U:H2'	4:L:670:U:C6	2.30	0.64
4:L:717:U:H2'	4:L:718:U:H6	1.62	0.64
4:L:763:U:C2'	4:L:764:U:H5'	2.20	0.64
4:L:803:U:N3	4:L:804:U:C4	2.66	0.64
4:L:808:U:N3	4:L:809:U:C5	2.66	0.64
5:M:403:U:O2'	5:M:404:U:H5'	1.96	0.64
6:N:384:U:O2	6:N:385:U:C6	2.50	0.64
1:I:128:A:C2'	1:I:129:A:H5'	2.27	0.64
1:I:227:A:C2	1:I:228:A:C4	2.85	0.64
1:I:242:A:N3	1:I:243:A:C8	2.66	0.64
1:I:329:A:C2'	1:I:330:A:H5'	2.26	0.64
2:J:21:A:C2'	2:J:22:A:C5'	2.75	0.64
2:J:32:A:C4	2:J:33:A:C8	2.85	0.64
2:J:165:A:C4	2:J:166:A:C8	2.85	0.64
2:J:176:A:O2'	2:J:177:A:P	2.54	0.64
2:J:192:A:C2	2:J:193:A:C4	2.85	0.64
3:K:40:A:N6	3:K:41:A:N6	2.45	0.64
3:K:47:A:C4	3:K:48:A:N7	2.65	0.64
3:K:100:A:C2	3:K:101:A:C5	2.85	0.64
3:K:101:A:C2'	3:K:102:A:H5'	2.27	0.64
3:K:103:A:C2	3:K:104:A:C5	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:458:U:H2'	4:L:459:U:H6	1.63	0.64
4:L:538:U:C4	4:L:539:U:O4	2.50	0.64
4:L:618:U:H2'	4:L:619:U:H6	1.63	0.64
4:L:675:U:C4	4:L:676:U:C5	2.85	0.64
4:L:713:U:C4	4:L:714:U:C5	2.86	0.64
4:L:718:U:H2'	4:L:719:U:O5'	1.98	0.64
4:L:723:U:C2'	4:L:724:U:C6	2.81	0.64
5:M:296:U:HO2'	5:M:297:U:H5'	1.60	0.64
5:M:321:U:O4	5:M:322:U:O4	2.16	0.64
5:M:459:U:N3	5:M:460:U:C5	2.66	0.64
5:M:482:U:H2'	5:M:483:U:O5'	1.96	0.64
5:M:509:U:C2'	5:M:510:U:H5'	2.27	0.64
6:N:421:U:C2	6:N:422:U:C5	2.85	0.64
6:N:430:U:H2'	6:N:431:U:C5'	2.27	0.64
6:N:451:U:C4	6:N:452:U:C5	2.85	0.64
1:I:4:A:N1	1:I:5:A:C6	2.66	0.64
1:I:239:A:H2'	1:I:240:A:O5'	1.98	0.64
1:I:251:A:C5	1:I:252:A:N7	2.65	0.64
1:I:321:A:H2'	1:I:322:A:C5'	2.27	0.64
2:J:51:A:C4	2:J:52:A:N7	2.66	0.64
2:J:206:A:O2'	2:J:207:A:C4'	2.45	0.64
3:K:81:A:H2'	3:K:82:A:O4'	1.98	0.64
3:K:104:A:H2'	3:K:105:A:C5'	2.28	0.64
3:K:114:A:H2'	3:K:115:A:C8	2.26	0.64
3:K:150:A:O2'	3:K:151:A:P	2.54	0.64
3:K:156:A:C3'	3:K:157:A:C5'	2.42	0.64
3:K:181:A:O2'	3:K:182:A:C5'	2.45	0.64
4:L:555:U:H2'	4:L:556:U:C6	2.32	0.64
4:L:577:U:C4	4:L:578:U:O4	2.50	0.64
4:L:579:U:N3	4:L:580:U:C5	2.66	0.64
4:L:583:U:C4	4:L:584:U:C5	2.86	0.64
4:L:584:U:O2	4:L:585:U:C6	2.51	0.64
4:L:588:U:HO2'	4:L:589:U:C5'	1.94	0.64
4:L:713:U:C2'	4:L:714:U:C4'	2.54	0.64
4:L:717:U:C2	4:L:718:U:C4	2.83	0.64
4:L:735:U:H2'	4:L:736:U:H6	1.63	0.64
5:M:288:U:H2'	5:M:289:U:O4'	1.97	0.64
5:M:299:U:H2'	5:M:300:U:C6	2.31	0.64
5:M:306:U:C2'	5:M:307:U:H5'	2.27	0.64
5:M:336:U:C5	5:M:337:U:H5	2.12	0.64
5:M:338:U:H2'	5:M:339:U:O5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:342:U:H2'	5:M:343:U:C6	2.32	0.64
5:M:386:U:O2'	5:M:387:U:O5'	2.16	0.64
5:M:419:U:H2'	5:M:420:U:O5'	1.97	0.64
6:N:313:U:C2	6:N:314:U:C5	2.85	0.64
6:N:399:U:C4	6:N:400:U:C4	2.85	0.64
1:I:21:A:C5	1:I:22:A:N7	2.65	0.64
1:I:228:A:C4	1:I:229:A:N7	2.65	0.64
1:I:242:A:H2'	1:I:243:A:O4'	1.96	0.64
1:I:331:A:N6	1:I:332:A:N6	2.45	0.64
1:I:352:A:H2'	1:I:353:A:H8	1.61	0.64
2:J:221:A:H2'	2:J:222:A:C5'	2.28	0.64
3:K:140:A:N6	3:K:141:A:H62	1.95	0.64
3:K:167:A:H61	3:K:168:A:N6	1.96	0.64
3:K:212:A:H2'	3:K:213:A:H8	1.58	0.64
3:K:254:A:O2'	3:K:255:A:H5'	1.98	0.64
4:L:537:U:O2'	4:L:538:U:O4'	2.15	0.64
4:L:580:U:H2'	4:L:581:U:H6	1.61	0.64
4:L:643:U:N3	4:L:644:U:C4	2.65	0.64
4:L:683:U:C2	4:L:684:U:C5	2.86	0.64
4:L:755:U:C2	4:L:756:U:C5	2.86	0.64
4:L:758:U:C4	4:L:759:U:H5	2.15	0.64
4:L:761:U:N3	4:L:762:U:C5	2.66	0.64
4:L:800:U:N3	4:L:801:U:C5	2.66	0.64
5:M:290:U:HO2'	5:M:291:U:H5'	1.59	0.64
5:M:317:U:C2	5:M:318:U:C5	2.85	0.64
5:M:362:U:C2	5:M:363:U:C5	2.85	0.64
5:M:381:U:C2	5:M:382:U:C5	2.85	0.64
5:M:446:U:C2	5:M:447:U:C5	2.85	0.64
5:M:476:U:C2'	5:M:477:U:H5'	2.26	0.64
6:N:321:U:H2'	6:N:322:U:H6	1.63	0.64
6:N:418:U:N3	6:N:419:U:O4	2.31	0.64
6:N:485:U:H2'	6:N:486:U:C6	2.33	0.64
1:I:25:A:C2	1:I:26:A:N9	2.65	0.64
1:I:62:A:C4	1:I:63:A:C8	2.85	0.64
1:I:67:A:N1	1:I:68:A:C5	2.66	0.64
1:I:78:A:H2'	1:I:79:A:O5'	1.98	0.64
1:I:196:A:H2'	1:I:197:A:O5'	1.97	0.64
1:I:202:A:C2	1:I:203:A:N9	2.66	0.64
1:I:241:A:C5	1:I:242:A:N7	2.66	0.64
1:I:270:A:N3	1:I:271:A:N9	2.45	0.64
1:I:335:A:C6	1:I:336:A:C6	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:365:A:H2'	1:I:366:A:H8	1.61	0.64
1:I:403:A:C2'	1:I:404:A:O4'	2.46	0.64
2:J:224:A:C5	2:J:225:A:N7	2.66	0.64
3:K:243:A:HO3'	3:K:244:A:P	2.21	0.64
4:L:477:U:C3'	4:L:478:U:C5'	2.64	0.64
4:L:508:U:C4	4:L:509:U:C4	2.85	0.64
4:L:549:U:O2'	4:L:550:U:C4'	2.46	0.64
4:L:601:U:N3	4:L:602:U:C5	2.66	0.64
4:L:749:U:O2	4:L:750:U:C6	2.50	0.64
5:M:405:U:C2	5:M:406:U:C6	2.85	0.64
6:N:456:U:C3'	6:N:457:U:P	2.85	0.64
6:N:460:U:O2'	6:N:461:U:P	2.56	0.64
6:N:468:U:N3	6:N:469:U:C5	2.66	0.64
6:N:474:U:H2'	6:N:475:U:C6	2.33	0.64
1:I:67:A:C2	1:I:68:A:C5	2.85	0.64
1:I:146:A:C3'	1:I:147:A:P	2.84	0.64
1:I:182:A:C2	1:I:183:A:C8	2.86	0.64
1:I:272:A:C2	4:L:554:U:O2	2.50	0.64
2:J:63:A:C4	2:J:64:A:C8	2.86	0.64
2:J:146:A:H2'	2:J:147:A:H8	1.62	0.64
2:J:182:A:H2'	2:J:183:A:C8	2.33	0.64
2:J:190:A:N6	2:J:191:A:H62	1.94	0.64
2:J:264:A:O2'	2:J:265:A:H5'	1.98	0.64
3:K:90:A:C2	3:K:91:A:C5	2.85	0.64
3:K:162:A:C2	3:K:163:A:C8	2.86	0.64
3:K:253:A:H2'	3:K:254:A:C4'	2.27	0.64
4:L:516:U:C4	4:L:517:U:C5	2.85	0.64
4:L:542:U:C2	4:L:543:U:C6	2.85	0.64
4:L:736:U:O2	4:L:737:U:C6	2.51	0.64
4:L:769:U:H2'	4:L:770:U:C5'	2.16	0.64
5:M:436:U:H2'	5:M:437:U:O4'	1.97	0.64
5:M:458:U:C2'	5:M:459:U:C4'	2.76	0.64
5:M:465:U:H2'	5:M:466:U:O4'	1.98	0.64
5:M:519:U:C4	5:M:520:U:C5	2.86	0.64
5:M:523:U:O2	5:M:524:U:C5	2.48	0.64
6:N:394:U:C2	6:N:395:U:C6	2.86	0.64
6:N:420:U:H2'	6:N:421:U:H6	1.62	0.64
6:N:484:U:C3'	6:N:485:U:C5'	2.56	0.64
1:I:42:A:C2'	1:I:43:A:C5'	2.75	0.64
1:I:77:A:C4	1:I:78:A:C8	2.86	0.64
1:I:90:A:C2	1:I:91:A:C4	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:91:A:C2	1:I:92:A:C4	2.86	0.64
1:I:180:A:N3	1:I:181:A:N9	2.42	0.64
1:I:196:A:C2'	1:I:197:A:H5'	2.28	0.64
1:I:226:A:C4	1:I:227:A:C8	2.86	0.64
2:J:29:A:N1	2:J:30:A:C5	2.66	0.64
2:J:63:A:C2'	2:J:64:A:C5'	2.75	0.64
2:J:147:A:H2'	2:J:148:A:C8	2.29	0.64
2:J:202:A:C2	2:J:203:A:C5	2.85	0.64
3:K:97:A:C6	3:K:98:A:C5	2.86	0.64
3:K:253:A:C3'	3:K:254:A:C5'	2.60	0.64
4:L:491:U:H2'	4:L:492:U:H6	1.63	0.64
4:L:501:U:H2'	4:L:502:U:O5'	1.97	0.64
4:L:507:U:O2'	4:L:508:U:C4'	2.46	0.64
4:L:542:U:H2'	4:L:543:U:H6	1.63	0.64
4:L:546:U:C2'	4:L:547:U:C5'	2.75	0.64
4:L:552:U:C4	4:L:553:U:C4	2.86	0.64
4:L:638:U:O2	4:L:639:U:C1'	2.45	0.64
4:L:715:U:C2'	4:L:716:U:O5'	2.46	0.64
4:L:772:U:H2'	4:L:773:U:H6	1.63	0.64
4:L:793:U:C4	4:L:794:U:C5	2.85	0.64
4:L:811:U:N1	4:L:812:U:C6	2.65	0.64
5:M:354:U:H2'	5:M:355:U:C6	2.33	0.64
6:N:316:U:C2'	6:N:317:U:C6	2.75	0.64
6:N:468:U:C2	6:N:469:U:H5	2.12	0.64
1:I:18:A:H2'	1:I:19:A:C8	2.33	0.63
1:I:79:A:N6	1:I:80:A:N6	2.45	0.63
1:I:229:A:H2'	1:I:230:A:O4'	1.97	0.63
1:I:233:A:O2'	1:I:234:A:C5'	2.33	0.63
1:I:239:A:C2	1:I:240:A:C5	2.86	0.63
2:J:26:A:C4	2:J:27:A:C8	2.86	0.63
2:J:131:A:C5	2:J:132:A:N7	2.66	0.63
2:J:143:A:H2	2:J:144:A:N9	1.78	0.63
2:J:229:A:HO2'	2:J:230:A:C4'	2.10	0.63
3:K:103:A:H2'	3:K:104:A:H8	1.62	0.63
4:L:460:U:C2	4:L:461:U:C6	2.85	0.63
4:L:565:U:C2	4:L:566:U:C6	2.86	0.63
4:L:778:U:C2'	4:L:779:U:C5'	2.76	0.63
5:M:331:U:H2'	5:M:332:U:O5'	1.98	0.63
5:M:520:U:C2	5:M:521:U:C5	2.86	0.63
6:N:364:U:C2	6:N:365:U:C6	2.85	0.63
1:I:14:A:C5	1:I:15:A:N7	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:42:A:C2	1:I:43:A:C8	2.86	0.63
1:I:68:A:H2'	1:I:69:A:O4'	1.99	0.63
1:I:82:A:C2'	1:I:83:A:C4'	2.71	0.63
1:I:202:A:C2'	1:I:203:A:O5'	2.43	0.63
1:I:205:A:C2	1:I:206:A:C5	2.86	0.63
1:I:213:A:C4	1:I:214:A:C8	2.86	0.63
1:I:241:A:N6	1:I:242:A:H62	1.95	0.63
1:I:261:A:C2'	1:I:262:A:H8	2.09	0.63
1:I:279:A:C2'	1:I:280:A:O5'	2.45	0.63
2:J:26:A:C2	2:J:27:A:C5	2.85	0.63
2:J:30:A:O2'	2:J:31:A:C5'	2.39	0.63
2:J:57:A:C2	2:J:58:A:C5	2.86	0.63
2:J:188:A:C2	2:J:189:A:N7	2.66	0.63
2:J:229:A:H2'	2:J:230:A:H8	1.61	0.63
3:K:181:A:C2	3:K:182:A:C8	2.86	0.63
3:K:251:A:H61	3:K:252:A:N6	1.95	0.63
4:L:486:U:H2'	4:L:487:U:H6	1.62	0.63
4:L:533:U:H2'	4:L:534:U:H6	1.64	0.63
4:L:594:U:C2	4:L:595:U:C6	2.87	0.63
4:L:712:U:C2'	4:L:713:U:H6	2.11	0.63
4:L:730:U:C2	4:L:731:U:C5	2.86	0.63
4:L:739:U:HO2'	4:L:740:U:C5'	1.81	0.63
4:L:778:U:N3	4:L:779:U:C5	2.65	0.63
5:M:543:U:H2'	5:M:544:U:C6	2.32	0.63
6:N:458:U:H2'	6:N:459:U:C6	2.32	0.63
1:I:84:A:O2'	1:I:85:A:P	2.56	0.63
1:I:100:A:C2'	1:I:101:A:C5'	2.76	0.63
2:J:79:A:C4	2:J:80:A:C8	2.86	0.63
2:J:94:A:C2	2:J:95:A:C8	2.86	0.63
2:J:145:A:N7	2:J:146:A:N7	2.45	0.63
2:J:235:A:C2	2:J:236:A:C8	2.86	0.63
2:J:265:A:C4	2:J:266:A:C8	2.85	0.63
3:K:10:A:C3'	3:K:11:A:P	2.83	0.63
3:K:137:A:C2'	3:K:138:A:C5'	2.76	0.63
3:K:152:A:H62	3:K:153:A:H62	1.42	0.63
4:L:428:U:H2'	4:L:429:U:C6	2.34	0.63
4:L:460:U:H2'	4:L:461:U:O5'	1.99	0.63
4:L:612:U:C2	4:L:613:U:C6	2.85	0.63
4:L:740:U:H2'	4:L:741:U:H6	1.62	0.63
5:M:418:U:C2	5:M:419:U:C5	2.85	0.63
5:M:445:U:C2	5:M:446:U:C5	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:483:U:H2'	5:M:484:U:H6	1.62	0.63
5:M:514:U:C2	5:M:515:U:C6	2.87	0.63
5:M:515:U:C2'	5:M:516:U:C5'	2.76	0.63
6:N:367:U:C2	6:N:368:U:C5	2.86	0.63
6:N:426:U:H2'	6:N:427:U:C4'	2.27	0.63
1:I:38:A:N3	1:I:39:A:C8	2.67	0.63
1:I:186:A:N1	1:I:187:A:C5	2.66	0.63
1:I:269:A:H2'	1:I:270:A:C4'	2.27	0.63
1:I:279:A:H2'	1:I:280:A:O5'	1.97	0.63
1:I:311:A:C2'	1:I:312:A:C5'	2.76	0.63
2:J:28:A:C6	2:J:29:A:N6	2.65	0.63
2:J:31:A:O2'	2:J:32:A:H5'	1.99	0.63
2:J:104:A:N3	2:J:105:A:C8	2.66	0.63
2:J:223:A:N1	2:J:224:A:C5	2.66	0.63
2:J:257:A:C2'	2:J:258:A:H5'	2.29	0.63
3:K:85:A:C2'	3:K:86:A:C5'	2.76	0.63
3:K:110:A:N3	3:K:111:A:C1'	2.62	0.63
4:L:526:U:C2'	4:L:527:U:H5'	2.28	0.63
4:L:543:U:H2'	4:L:544:U:H6	1.61	0.63
4:L:564:U:N3	4:L:565:U:C5	2.66	0.63
4:L:573:U:N3	4:L:574:U:C4	2.66	0.63
4:L:781:U:N3	4:L:782:U:C4	2.67	0.63
4:L:803:U:C2'	4:L:804:U:O4'	2.46	0.63
5:M:450:U:N3	5:M:451:U:C4	2.67	0.63
5:M:461:U:C2'	5:M:462:U:H5'	2.27	0.63
5:M:496:U:H2'	5:M:497:U:O5'	1.97	0.63
6:N:461:U:C2	6:N:462:U:C5	2.86	0.63
6:N:488:U:H2'	6:N:489:U:C6	2.33	0.63
6:N:512:U:C4	6:N:513:U:O4	2.52	0.63
1:I:10:A:C2	1:I:11:A:N7	2.66	0.63
1:I:149:A:C3'	1:I:150:A:P	2.87	0.63
1:I:194:A:H61	1:I:195:A:N6	1.95	0.63
1:I:285:A:H2'	1:I:286:A:O4'	1.98	0.63
1:I:322:A:C6	1:I:323:A:N7	2.66	0.63
2:J:69:A:C2'	2:J:70:A:O5'	2.46	0.63
2:J:216:A:C4	2:J:217:A:N7	2.67	0.63
2:J:219:A:C4	2:J:220:A:C8	2.87	0.63
2:J:230:A:O2'	2:J:231:A:C4'	2.45	0.63
3:K:99:A:N3	3:K:100:A:C8	2.67	0.63
4:L:422:U:C2'	4:L:423:U:H5'	2.29	0.63
4:L:465:U:C2	4:L:466:U:C5	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:471:U:O2	4:L:472:U:C6	2.52	0.63
4:L:567:U:C2	4:L:568:U:C6	2.86	0.63
4:L:613:U:C2'	4:L:614:U:H5'	2.28	0.63
4:L:621:U:C2	4:L:622:U:C5	2.87	0.63
4:L:665:U:N3	4:L:666:U:C5	2.66	0.63
4:L:779:U:N3	4:L:780:U:C5	2.67	0.63
4:L:810:U:N3	4:L:811:U:C5	2.67	0.63
4:L:820:U:C2	4:L:821:U:C5	2.86	0.63
4:L:820:U:C4	4:L:821:U:O4	2.51	0.63
5:M:295:U:C2'	5:M:296:U:H5'	2.29	0.63
5:M:465:U:C2	5:M:466:U:C5	2.86	0.63
5:M:536:U:H2'	5:M:537:U:C5'	2.27	0.63
6:N:315:U:H2'	6:N:316:U:H6	1.63	0.63
6:N:437:U:O2'	6:N:438:U:H5'	1.99	0.63
6:N:481:U:C2'	6:N:482:U:O5'	2.45	0.63
1:I:40:A:C3'	1:I:41:A:OP2	2.44	0.63
1:I:64:A:H2'	1:I:65:A:H8	1.63	0.63
1:I:132:A:C4	1:I:133:A:C8	2.87	0.63
1:I:172:A:C2'	1:I:173:A:C5'	2.77	0.63
1:I:179:A:N1	1:I:180:A:C5	2.67	0.63
1:I:181:A:H61	1:I:182:A:N6	1.96	0.63
1:I:213:A:H2'	1:I:214:A:O4'	1.97	0.63
1:I:244:A:C2	1:I:245:A:C4	2.87	0.63
1:I:333:A:N3	1:I:334:A:C8	2.67	0.63
1:I:340:A:O2'	1:I:341:A:H5'	1.98	0.63
2:J:224:A:H2'	2:J:225:A:C5'	2.28	0.63
3:K:41:A:H2'	3:K:42:A:H8	1.64	0.63
3:K:117:A:N1	3:K:118:A:C6	2.67	0.63
3:K:131:A:C5	3:K:132:A:N7	2.66	0.63
3:K:132:A:C2	3:K:133:A:C8	2.86	0.63
4:L:501:U:C2'	4:L:502:U:O5'	2.43	0.63
4:L:510:U:C2'	4:L:511:U:O4'	2.47	0.63
4:L:524:U:C2	4:L:525:U:C6	2.86	0.63
4:L:598:U:H2'	4:L:599:U:H6	1.64	0.63
4:L:648:U:H2'	4:L:649:U:H6	1.63	0.63
4:L:760:U:O2'	4:L:761:U:C5'	2.41	0.63
6:N:385:U:H2'	6:N:386:U:H6	1.62	0.63
6:N:474:U:O2'	6:N:475:U:C5'	2.41	0.63
1:I:43:A:C2	1:I:44:A:C4	2.85	0.63
1:I:58:A:C4	1:I:59:A:N7	2.67	0.63
1:I:113:A:C6	1:I:114:A:N6	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:128:A:N6	1:I:129:A:H62	1.96	0.63
1:I:295:A:C2	1:I:296:A:C8	2.86	0.63
1:I:340:A:H2'	1:I:341:A:H8	1.64	0.63
1:I:401:A:H2'	1:I:402:A:C8	2.34	0.63
2:J:83:A:C6	2:J:84:A:C5	2.87	0.63
2:J:84:A:C2	2:J:85:A:C4	2.87	0.63
3:K:90:A:C4	3:K:91:A:C8	2.87	0.63
3:K:138:A:N1	3:K:139:A:C5	2.66	0.63
3:K:156:A:C2	3:K:157:A:C4	2.86	0.63
3:K:207:A:O2'	3:K:208:A:C5'	2.46	0.63
3:K:212:A:C2'	3:K:213:A:C8	2.79	0.63
4:L:490:U:H2'	4:L:491:U:H6	1.63	0.63
4:L:574:U:N3	4:L:575:U:C5	2.60	0.63
4:L:595:U:C2	4:L:596:U:C6	2.87	0.63
4:L:598:U:C2'	4:L:599:U:H5'	2.29	0.63
4:L:634:U:H2'	4:L:635:U:O4'	1.99	0.63
4:L:635:U:H2'	4:L:636:U:C6	2.31	0.63
4:L:650:U:HO2'	4:L:651:U:H5'	1.61	0.63
4:L:713:U:H2'	4:L:714:U:C1'	2.23	0.63
5:M:354:U:O2	5:M:355:U:C6	2.52	0.63
5:M:389:U:H2'	5:M:390:U:H6	1.62	0.63
5:M:422:U:H2'	5:M:423:U:H6	1.62	0.63
6:N:291:U:H2'	6:N:292:U:H6	1.63	0.63
6:N:292:U:H2'	6:N:293:U:H6	1.60	0.63
6:N:333:U:H2'	6:N:334:U:H6	1.62	0.63
6:N:468:U:C4	6:N:469:U:O4	2.52	0.63
6:N:501:U:H2'	6:N:502:U:H6	1.62	0.63
6:N:501:U:H2'	6:N:502:U:O4'	1.98	0.63
1:I:197:A:O2'	1:I:198:A:C5'	2.43	0.63
1:I:251:A:C4	1:I:252:A:N7	2.67	0.63
1:I:253:A:C4	1:I:254:A:N7	2.66	0.63
1:I:277:A:C2'	1:I:278:A:H8	2.08	0.63
1:I:320:A:C2'	1:I:321:A:C5'	2.77	0.63
1:I:323:A:C2	1:I:324:A:C8	2.85	0.63
2:J:29:A:N3	2:J:30:A:C1'	2.62	0.63
2:J:45:A:N3	2:J:46:A:C8	2.67	0.63
2:J:51:A:C4	2:J:52:A:C8	2.86	0.63
2:J:218:A:C2	2:J:219:A:C8	2.86	0.63
2:J:259:A:O2'	2:J:260:A:H5'	1.99	0.63
3:K:253:A:C4	3:K:254:A:C8	2.87	0.63
4:L:434:U:H2'	4:L:435:U:H6	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:436:U:C2'	4:L:437:U:C5'	2.76	0.63
4:L:459:U:C2	4:L:460:U:C6	2.86	0.63
4:L:478:U:H2'	4:L:479:U:C5'	2.27	0.63
4:L:502:U:H2'	4:L:503:U:H6	1.63	0.63
5:M:354:U:O2'	5:M:355:U:P	2.56	0.63
5:M:406:U:H2'	5:M:407:U:C6	2.34	0.63
5:M:445:U:O2'	5:M:446:U:C5'	2.42	0.63
5:M:495:U:C4	5:M:496:U:C5	2.87	0.63
5:M:537:U:C2	5:M:538:U:C6	2.87	0.63
6:N:384:U:O2'	6:N:385:U:C5'	2.46	0.63
1:I:13:A:N6	1:I:14:A:N6	2.46	0.63
1:I:48:A:C2	1:I:49:A:C4	2.87	0.63
1:I:97:A:H2'	1:I:98:A:O5'	1.98	0.63
1:I:128:A:C6	1:I:129:A:C6	2.87	0.63
1:I:194:A:C5	1:I:195:A:N7	2.67	0.63
1:I:265:A:C4	1:I:266:A:C8	2.87	0.63
1:I:280:A:H2'	1:I:281:A:H8	1.63	0.63
1:I:284:A:C2'	1:I:285:A:O5'	2.44	0.63
2:J:4:A:H2'	2:J:5:A:H8	1.63	0.63
2:J:17:A:O2'	2:J:18:A:C5'	2.40	0.63
2:J:96:A:C4	2:J:97:A:C8	2.86	0.63
2:J:116:A:N3	2:J:117:A:C8	2.67	0.63
3:K:45:A:C3'	3:K:46:A:P	2.86	0.63
3:K:215:A:H2'	3:K:216:A:H8	1.63	0.63
4:L:466:U:C2'	4:L:467:U:O5'	2.46	0.63
4:L:723:U:N3	4:L:724:U:C5	2.63	0.63
4:L:814:U:H2'	4:L:815:U:O5'	1.98	0.63
5:M:323:U:O2	5:M:324:U:C1'	2.47	0.63
5:M:373:U:C2	5:M:374:U:C6	2.87	0.63
5:M:406:U:N3	5:M:407:U:C5	2.67	0.63
5:M:455:U:N3	5:M:456:U:C5	2.67	0.63
5:M:512:U:N3	5:M:513:U:C5	2.66	0.63
6:N:277:U:C2	6:N:278:U:C6	2.86	0.63
6:N:313:U:H2'	6:N:314:U:H6	1.62	0.63
6:N:445:U:O2'	6:N:446:U:H5'	1.98	0.63
6:N:449:U:C2'	6:N:450:U:O5'	2.46	0.63
1:I:14:A:C2	1:I:15:A:C5	2.87	0.62
1:I:48:A:H2'	1:I:49:A:O4'	1.98	0.62
1:I:63:A:C4	1:I:64:A:N7	2.67	0.62
1:I:66:A:N3	1:I:67:A:C8	2.67	0.62
1:I:154:A:H2'	1:I:155:A:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:175:A:C2	1:I:176:A:C4	2.86	0.62
1:I:241:A:C4	1:I:242:A:N7	2.67	0.62
1:I:376:A:C6	1:I:377:A:C5	2.86	0.62
2:J:11:A:H2'	2:J:12:A:C4'	2.29	0.62
2:J:13:A:C2'	2:J:14:A:O5'	2.45	0.62
2:J:97:A:C2	2:J:98:A:C4	2.86	0.62
2:J:210:A:H2'	2:J:211:A:C5'	2.26	0.62
2:J:218:A:H2'	2:J:219:A:H8	1.64	0.62
2:J:224:A:N3	2:J:225:A:C8	2.67	0.62
2:J:248:A:H61	2:J:249:A:N6	1.92	0.62
3:K:119:A:H2'	3:K:120:A:C4'	2.29	0.62
3:K:125:A:C2	3:K:126:A:N9	2.67	0.62
3:K:145:A:H2'	3:K:146:A:C8	2.34	0.62
3:K:250:A:HO2'	3:K:251:A:H5'	1.55	0.62
4:L:467:U:C2'	4:L:468:U:H5'	2.28	0.62
4:L:504:U:H2'	4:L:505:U:O5'	1.99	0.62
4:L:561:U:C2'	4:L:562:U:H5'	2.28	0.62
4:L:648:U:N3	4:L:649:U:C5	2.66	0.62
4:L:757:U:H2'	4:L:758:U:O4'	1.98	0.62
5:M:418:U:O4	5:M:419:U:O4	2.16	0.62
5:M:480:U:H2'	5:M:481:U:H6	1.63	0.62
5:M:489:U:H2'	5:M:490:U:H6	1.64	0.62
6:N:310:U:O2'	6:N:311:U:H5'	1.99	0.62
6:N:474:U:C2	6:N:475:U:C6	2.86	0.62
6:N:477:U:H2'	6:N:478:U:C5'	2.29	0.62
6:N:497:U:O2'	6:N:498:U:C4'	2.46	0.62
1:I:25:A:H2'	1:I:26:A:C5'	2.28	0.62
1:I:87:A:N3	1:I:88:A:C8	2.67	0.62
1:I:120:A:C2'	1:I:121:A:C5'	2.77	0.62
1:I:172:A:N3	1:I:173:A:C8	2.67	0.62
1:I:190:A:C2	1:I:191:A:C4	2.87	0.62
1:I:241:A:H2'	1:I:242:A:C8	2.34	0.62
1:I:329:A:C2'	1:I:330:A:C5'	2.77	0.62
1:I:357:A:C2'	1:I:358:A:H5'	2.29	0.62
1:I:403:A:H2'	1:I:404:A:O4'	1.99	0.62
2:J:66:A:C2'	2:J:67:A:C5'	2.76	0.62
2:J:107:A:H2'	2:J:108:A:O5'	1.98	0.62
2:J:108:A:N3	2:J:109:A:C8	2.67	0.62
2:J:120:A:N3	2:J:121:A:C8	2.67	0.62
3:K:97:A:C5	3:K:98:A:N7	2.66	0.62
3:K:122:A:N3	3:K:123:A:C8	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:168:A:H2'	3:K:169:A:O5'	1.99	0.62
4:L:434:U:H2'	4:L:435:U:C6	2.33	0.62
4:L:493:U:C2	4:L:494:U:C5	2.87	0.62
4:L:672:U:N3	4:L:673:U:C5	2.67	0.62
4:L:692:U:H2'	4:L:693:U:C6	2.30	0.62
4:L:718:U:O2	4:L:719:U:C6	2.51	0.62
4:L:783:U:H2'	4:L:784:U:C6	2.34	0.62
5:M:327:U:O2'	5:M:328:U:C5'	2.46	0.62
5:M:483:U:H2'	5:M:484:U:C5'	2.28	0.62
5:M:491:U:C2'	5:M:492:U:C5'	2.77	0.62
5:M:492:U:N3	5:M:493:U:C5	2.68	0.62
5:M:506:U:C2	5:M:507:U:C5	2.87	0.62
5:M:512:U:C2'	5:M:513:U:O4'	2.45	0.62
6:N:426:U:O2	6:N:427:U:C6	2.53	0.62
6:N:439:U:C2	6:N:440:U:C6	2.87	0.62
1:I:68:A:C2	1:I:69:A:C4	2.87	0.62
1:I:70:A:H2'	1:I:71:A:C5'	2.29	0.62
1:I:73:A:N3	1:I:74:A:C8	2.67	0.62
1:I:192:A:C2'	1:I:193:A:C5'	2.77	0.62
1:I:212:A:N3	1:I:213:A:C8	2.67	0.62
1:I:261:A:N6	1:I:262:A:N6	2.46	0.62
1:I:275:A:C2	4:L:551:U:C2	2.87	0.62
1:I:333:A:C2	1:I:334:A:C8	2.86	0.62
2:J:41:A:H2'	2:J:42:A:H8	1.63	0.62
2:J:108:A:C2	2:J:109:A:C4	2.87	0.62
2:J:255:A:O2'	2:J:256:A:H5'	1.99	0.62
3:K:65:A:N6	3:K:66:A:C6	2.65	0.62
3:K:86:A:C2	3:K:87:A:C8	2.87	0.62
3:K:130:A:C2	3:K:131:A:C8	2.87	0.62
3:K:169:A:C2'	3:K:170:A:H5'	2.28	0.62
3:K:238:A:H2'	3:K:239:A:H8	1.62	0.62
4:L:544:U:C5	4:L:545:U:C5	2.87	0.62
4:L:544:U:C2	4:L:545:U:C5	2.88	0.62
4:L:548:U:C2	4:L:549:U:C5	2.87	0.62
4:L:629:U:C2'	4:L:630:U:H5'	2.28	0.62
4:L:711:U:C4	4:L:712:U:O4	2.52	0.62
4:L:738:U:N3	4:L:739:U:O4	2.32	0.62
5:M:341:U:HO2'	5:M:342:U:H5'	1.63	0.62
5:M:350:U:O2	5:M:351:U:C6	2.52	0.62
5:M:361:U:H2'	5:M:362:U:C6	2.34	0.62
5:M:371:U:HO2'	5:M:372:U:H5'	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:474:U:C2'	5:M:475:U:P	2.88	0.62
5:M:489:U:H2'	5:M:490:U:C4'	2.30	0.62
5:M:495:U:C2'	5:M:496:U:C5'	2.75	0.62
5:M:520:U:N3	5:M:521:U:C5	2.67	0.62
6:N:399:U:C4	6:N:400:U:C5	2.87	0.62
6:N:429:U:H2'	6:N:430:U:H6	1.61	0.62
6:N:496:U:O2'	6:N:497:U:C5'	2.43	0.62
1:I:12:A:H2'	1:I:13:A:C5'	2.29	0.62
1:I:14:A:H2'	1:I:15:A:H8	1.62	0.62
1:I:18:A:C2	1:I:19:A:C4	2.87	0.62
1:I:82:A:C5	1:I:83:A:C5	2.86	0.62
1:I:86:A:C2	4:L:740:U:C2	2.88	0.62
1:I:97:A:C4	1:I:98:A:C8	2.88	0.62
1:I:101:A:O2'	1:I:102:A:P	2.58	0.62
1:I:153:A:O2'	1:I:154:A:H5'	1.98	0.62
1:I:268:A:N3	1:I:269:A:O4'	2.32	0.62
1:I:353:A:C2'	1:I:354:A:O5'	2.48	0.62
2:J:17:A:C2'	2:J:18:A:H5'	2.28	0.62
2:J:28:A:H2'	2:J:29:A:H8	1.65	0.62
2:J:34:A:O2'	2:J:35:A:C5'	2.44	0.62
2:J:179:A:N3	2:J:180:A:C8	2.67	0.62
3:K:89:A:O2'	3:K:90:A:O5'	2.16	0.62
3:K:111:A:N3	3:K:112:A:C8	2.68	0.62
3:K:203:A:N1	3:K:204:A:C6	2.67	0.62
4:L:471:U:O2'	4:L:472:U:C5'	2.47	0.62
4:L:751:U:C2'	4:L:752:U:C4'	2.76	0.62
4:L:758:U:C4	4:L:759:U:C4	2.86	0.62
4:L:767:U:O2'	4:L:768:U:P	2.57	0.62
5:M:290:U:H2'	5:M:291:U:C6	2.35	0.62
5:M:299:U:C4	5:M:300:U:C5	2.86	0.62
5:M:316:U:N3	5:M:317:U:C4	2.67	0.62
5:M:367:U:H2'	5:M:368:U:H6	1.63	0.62
5:M:378:U:H2'	5:M:379:U:C6	2.34	0.62
5:M:458:U:C2'	5:M:459:U:O4'	2.45	0.62
5:M:510:U:C2	5:M:511:U:C5	2.87	0.62
6:N:450:U:O2'	6:N:451:U:C4'	2.47	0.62
1:I:15:A:H2'	1:I:16:A:C4'	2.30	0.62
1:I:44:A:C2	1:I:45:A:N9	2.67	0.62
1:I:318:A:C2'	1:I:319:A:C5'	2.77	0.62
1:I:322:A:C2'	1:I:323:A:H5'	2.28	0.62
1:I:376:A:C5	1:I:377:A:N7	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:29:A:C6	2:J:30:A:N7	2.67	0.62
2:J:57:A:N1	2:J:58:A:C5	2.67	0.62
2:J:83:A:H2	2:J:84:A:C4	2.09	0.62
3:K:94:A:N6	3:K:95:A:N6	2.47	0.62
3:K:125:A:N3	3:K:126:A:C8	2.67	0.62
3:K:139:A:N3	3:K:140:A:C8	2.67	0.62
4:L:428:U:H2'	4:L:429:U:H6	1.64	0.62
4:L:451:U:HO3'	4:L:452:U:P	2.18	0.62
4:L:460:U:H2'	4:L:461:U:H6	1.64	0.62
4:L:488:U:C2'	4:L:489:U:O4'	2.47	0.62
4:L:494:U:C2'	4:L:495:U:C5'	2.78	0.62
4:L:573:U:C2'	4:L:574:U:H6	2.01	0.62
4:L:642:U:C2	4:L:643:U:C6	2.88	0.62
4:L:816:U:N3	4:L:817:U:C4	2.67	0.62
5:M:303:U:H2'	5:M:304:U:H6	1.64	0.62
5:M:310:U:H2'	5:M:311:U:O4'	1.99	0.62
5:M:348:U:C6	5:M:349:U:H5	2.18	0.62
5:M:354:U:H2'	5:M:355:U:H6	1.65	0.62
5:M:372:U:C2	5:M:373:U:C6	2.87	0.62
5:M:453:U:N3	5:M:454:U:C5	2.67	0.62
6:N:276:U:C2	6:N:277:U:C5	2.88	0.62
6:N:324:U:O2'	6:N:325:U:H5'	2.00	0.62
6:N:326:U:N3	6:N:327:U:C4	2.68	0.62
6:N:328:U:C2	6:N:329:U:C5	2.88	0.62
6:N:489:U:O2'	6:N:490:U:O5'	2.17	0.62
1:I:13:A:N3	1:I:14:A:C8	2.68	0.62
1:I:72:A:C6	1:I:73:A:C5	2.87	0.62
1:I:212:A:C2'	1:I:213:A:C5'	2.77	0.62
1:I:223:A:C4	1:I:224:A:C8	2.87	0.62
1:I:246:A:C2'	1:I:247:A:H5'	2.28	0.62
1:I:263:A:H2'	1:I:264:A:O5'	1.99	0.62
1:I:271:A:H2'	1:I:272:A:H8	1.62	0.62
1:I:280:A:C6	1:I:281:A:N6	2.68	0.62
2:J:26:A:C2	2:J:27:A:C8	2.87	0.62
2:J:132:A:C2'	2:J:133:A:O4'	2.47	0.62
2:J:201:A:N6	2:J:202:A:H62	1.96	0.62
2:J:264:A:H2'	2:J:265:A:C8	2.34	0.62
3:K:235:A:O2'	3:K:236:A:H5'	2.00	0.62
4:L:438:U:C4	4:L:439:U:C4	2.82	0.62
4:L:501:U:C2	4:L:502:U:C6	2.88	0.62
4:L:503:U:C2	4:L:504:U:C5	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:525:U:H2'	4:L:526:U:O4'	2.00	0.62
4:L:534:U:C2	4:L:535:U:C5	2.87	0.62
4:L:605:U:C2	4:L:606:U:C6	2.88	0.62
4:L:639:U:C2	4:L:640:U:C5	2.88	0.62
4:L:649:U:N3	4:L:650:U:C5	2.68	0.62
4:L:685:U:O2'	4:L:686:U:P	2.57	0.62
4:L:745:U:C2	4:L:746:U:H5	2.11	0.62
5:M:462:U:C2'	5:M:463:U:C5'	2.77	0.62
6:N:305:U:C2'	6:N:306:U:O4'	2.47	0.62
6:N:447:U:C2	6:N:448:U:C6	2.88	0.62
1:I:13:A:C2'	1:I:14:A:H8	2.11	0.62
1:I:18:A:O2'	1:I:19:A:C5'	2.44	0.62
1:I:18:A:C2	1:I:19:A:C5	2.87	0.62
1:I:59:A:C2	1:I:60:A:C8	2.87	0.62
1:I:88:A:H2'	1:I:89:A:O5'	1.99	0.62
1:I:152:A:C6	1:I:153:A:N6	2.68	0.62
1:I:181:A:C4	1:I:182:A:N7	2.68	0.62
1:I:189:A:C4	1:I:190:A:C8	2.88	0.62
1:I:190:A:N3	1:I:191:A:C8	2.67	0.62
1:I:252:A:H2'	1:I:253:A:O5'	1.98	0.62
1:I:347:A:C2'	1:I:348:A:C5'	2.76	0.62
2:J:11:A:C2	2:J:12:A:C4	2.88	0.62
2:J:83:A:C2'	2:J:84:A:O5'	2.47	0.62
2:J:97:A:C4	2:J:98:A:N7	2.67	0.62
2:J:171:A:N3	2:J:172:A:C5	2.62	0.62
2:J:188:A:C2	2:J:189:A:C8	2.88	0.62
3:K:41:A:N3	3:K:42:A:C8	2.68	0.62
3:K:142:A:O2'	3:K:143:A:O5'	2.18	0.62
3:K:210:A:C2'	3:K:211:A:H5'	2.29	0.62
3:K:243:A:C3'	3:K:244:A:P	2.86	0.62
4:L:487:U:H2'	4:L:488:U:O5'	2.00	0.62
4:L:524:U:C2'	4:L:525:U:C5'	2.78	0.62
4:L:525:U:H2'	4:L:526:U:C5'	2.29	0.62
4:L:771:U:C2'	4:L:772:U:H5'	2.29	0.62
5:M:305:U:H2'	5:M:306:U:C6	2.34	0.62
5:M:328:U:C2	5:M:329:U:H5	2.13	0.62
5:M:417:U:H2'	5:M:418:U:C6	2.34	0.62
6:N:310:U:H2'	6:N:311:U:O4'	1.99	0.62
6:N:332:U:C2	6:N:333:U:C5	2.87	0.62
6:N:473:U:N3	6:N:474:U:C5	2.67	0.62
1:I:25:A:C2	1:I:26:A:C8	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:96:A:H2'	1:I:97:A:C8	2.34	0.62
1:I:151:A:C2	1:I:152:A:C8	2.88	0.62
1:I:181:A:C6	1:I:182:A:C5	2.87	0.62
1:I:271:A:C4	1:I:272:A:C8	2.86	0.62
2:J:25:A:N3	2:J:26:A:C8	2.67	0.62
2:J:27:A:C2	2:J:28:A:C4	2.88	0.62
2:J:52:A:C5	2:J:53:A:N7	2.68	0.62
2:J:85:A:C2	2:J:86:A:N7	2.68	0.62
2:J:94:A:C4	2:J:95:A:C8	2.88	0.62
2:J:98:A:C4	2:J:99:A:N7	2.68	0.62
2:J:101:A:H2'	2:J:102:A:C8	2.35	0.62
3:K:65:A:C4	3:K:66:A:N7	2.67	0.62
3:K:108:A:C2'	3:K:109:A:H5'	2.30	0.62
3:K:147:A:N3	3:K:148:A:N7	2.48	0.62
3:K:213:A:H2'	3:K:214:A:O4'	1.98	0.62
3:K:221:A:N6	3:K:222:A:N6	2.47	0.62
4:L:509:U:O2'	4:L:510:U:C5'	2.41	0.62
4:L:600:U:C2	4:L:601:U:C5	2.88	0.62
4:L:637:U:C4	4:L:638:U:C5	2.88	0.62
4:L:671:U:H2'	4:L:672:U:O4'	2.00	0.62
4:L:771:U:H2'	4:L:772:U:O5'	2.00	0.62
5:M:349:U:C4	5:M:350:U:C5	2.88	0.62
5:M:355:U:H2'	5:M:356:U:H6	1.64	0.62
5:M:372:U:C2'	5:M:373:U:H5'	2.29	0.62
5:M:406:U:C2'	5:M:407:U:C4'	2.77	0.62
5:M:509:U:O2'	5:M:510:U:C5'	2.39	0.62
6:N:424:U:O2'	6:N:425:U:H5'	2.00	0.62
6:N:442:U:N3	6:N:443:U:C5	2.68	0.62
6:N:447:U:C2	6:N:448:U:C5	2.87	0.62
6:N:447:U:N3	6:N:448:U:C5	2.68	0.62
1:I:17:A:C2	1:I:18:A:N7	2.66	0.62
1:I:37:A:N3	1:I:38:A:C8	2.68	0.62
1:I:97:A:C2'	1:I:98:A:O5'	2.47	0.62
1:I:135:A:C6	1:I:136:A:N7	2.67	0.62
1:I:242:A:C2	1:I:243:A:H1'	2.34	0.62
1:I:267:A:C6	1:I:268:A:N6	2.68	0.62
1:I:287:A:H2'	1:I:288:A:C5'	2.25	0.62
1:I:334:A:C5	1:I:335:A:N7	2.68	0.62
1:I:334:A:H2'	1:I:335:A:O4'	2.00	0.62
2:J:100:A:H2'	2:J:101:A:O5'	1.99	0.62
3:K:49:A:H2	3:K:50:A:C4	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:57:A:C6	3:K:58:A:N6	2.67	0.62
3:K:68:A:O2'	3:K:69:A:H5'	1.99	0.62
3:K:95:A:C4	3:K:96:A:C8	2.87	0.62
3:K:106:A:C5	3:K:107:A:N7	2.67	0.62
3:K:107:A:C2	3:K:108:A:C4	2.88	0.62
3:K:124:A:O2'	3:K:125:A:O5'	2.17	0.62
3:K:218:A:H2'	3:K:219:A:H8	1.63	0.62
4:L:486:U:N3	4:L:487:U:C4	2.67	0.62
4:L:546:U:C2'	4:L:547:U:H5'	2.30	0.62
4:L:547:U:C2'	4:L:548:U:C6	2.78	0.62
5:M:336:U:O4	5:M:337:U:O4	2.17	0.62
5:M:436:U:C2'	5:M:437:U:H5'	2.30	0.62
5:M:453:U:N3	5:M:454:U:C4	2.68	0.62
5:M:467:U:H2'	5:M:468:U:O5'	2.00	0.62
5:M:511:U:H2'	5:M:512:U:C6	2.35	0.62
6:N:311:U:O2'	6:N:312:U:O4'	2.17	0.62
6:N:341:U:C3'	6:N:342:U:P	2.86	0.62
6:N:342:U:O2'	6:N:343:U:C5'	2.37	0.62
6:N:358:U:C2	6:N:359:U:C5	2.87	0.62
6:N:426:U:C2	6:N:427:U:C5	2.88	0.62
6:N:495:U:C2	6:N:496:U:C5	2.88	0.62
1:I:47:A:O2'	1:I:48:A:P	2.57	0.62
1:I:61:A:C2	1:I:62:A:C5	2.88	0.62
1:I:112:A:H2'	1:I:113:A:O4'	2.00	0.62
1:I:174:A:C4	1:I:175:A:C8	2.87	0.62
1:I:178:A:C2	1:I:179:A:C4	2.88	0.62
1:I:248:A:C2	1:I:249:A:N9	2.68	0.62
1:I:323:A:N3	1:I:324:A:O4'	2.33	0.62
2:J:15:A:C2	2:J:16:A:C8	2.88	0.62
2:J:29:A:N3	2:J:30:A:N9	2.48	0.62
2:J:34:A:O2'	2:J:35:A:P	2.57	0.62
2:J:55:A:C2'	2:J:56:A:C5'	2.78	0.62
2:J:142:A:C4	2:J:143:A:C8	2.87	0.62
2:J:159:A:C4	2:J:160:A:C8	2.87	0.62
2:J:218:A:C2'	2:J:219:A:O5'	2.47	0.62
2:J:224:A:N1	5:M:330:U:C4	2.68	0.62
3:K:147:A:H2'	3:K:148:A:C8	2.34	0.62
3:K:158:A:O2'	3:K:159:A:H5'	2.00	0.62
3:K:212:A:H62	3:K:213:A:N6	1.97	0.62
4:L:510:U:H2'	4:L:511:U:C6	2.33	0.62
4:L:689:U:N3	4:L:690:U:C5	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:336:U:C6	5:M:337:U:C5	2.88	0.62
5:M:522:U:C2	5:M:523:U:C6	2.88	0.62
5:M:524:U:C4	5:M:525:U:O4	2.53	0.62
6:N:316:U:O2'	6:N:317:U:H5'	2.00	0.62
6:N:403:U:C2'	6:N:404:U:H5'	2.30	0.62
6:N:440:U:H2'	6:N:441:U:C4'	2.29	0.62
1:I:101:A:C2'	1:I:102:A:H8	2.13	0.61
1:I:128:A:C4	1:I:129:A:N7	2.68	0.61
1:I:143:A:C4	1:I:144:A:N7	2.68	0.61
1:I:169:A:O2'	1:I:170:A:H5'	2.00	0.61
1:I:390:A:H2'	1:I:391:A:H8	1.64	0.61
2:J:90:A:H2'	2:J:91:A:O4'	2.00	0.61
2:J:92:A:C2'	2:J:93:A:H8	2.13	0.61
2:J:122:A:H2'	2:J:123:A:C8	2.35	0.61
2:J:221:A:H2'	2:J:222:A:O5'	2.00	0.61
3:K:16:A:C3'	3:K:17:A:P	2.87	0.61
3:K:45:A:O3'	3:K:46:A:O5'	2.17	0.61
3:K:91:A:H2'	3:K:92:A:H8	1.63	0.61
3:K:117:A:N1	3:K:118:A:C5	2.68	0.61
3:K:154:A:C5	3:K:155:A:C5	2.87	0.61
3:K:208:A:C3'	3:K:209:A:P	2.87	0.61
4:L:534:U:H2'	4:L:535:U:H6	1.64	0.61
4:L:598:U:C2'	4:L:599:U:C5'	2.78	0.61
4:L:712:U:O2	4:L:713:U:C1'	2.48	0.61
4:L:722:U:O2'	4:L:723:U:H6	1.83	0.61
4:L:763:U:O2'	4:L:764:U:O4'	2.17	0.61
4:L:794:U:C2'	4:L:795:U:O5'	2.48	0.61
5:M:304:U:N3	5:M:305:U:C4	2.68	0.61
5:M:434:U:C2	5:M:435:U:C6	2.87	0.61
5:M:518:U:O2'	5:M:519:U:P	2.55	0.61
5:M:520:U:O2'	5:M:521:U:C5'	2.38	0.61
6:N:342:U:C2'	6:N:343:U:H5'	2.30	0.61
6:N:475:U:C2'	6:N:476:U:H5'	2.29	0.61
1:I:236:A:C2	1:I:237:A:C5	2.89	0.61
1:I:250:A:O5'	1:I:251:A:OP2	2.18	0.61
1:I:265:A:C4	1:I:266:A:N7	2.68	0.61
1:I:329:A:C6	1:I:330:A:C5	2.88	0.61
2:J:29:A:N3	2:J:30:A:C8	2.68	0.61
2:J:44:A:H2'	2:J:45:A:C5'	2.28	0.61
2:J:47:A:C2	2:J:48:A:C1'	2.83	0.61
2:J:117:A:C2	2:J:118:A:C8	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:122:A:C5	2:J:123:A:N7	2.69	0.61
2:J:160:A:C2'	2:J:161:A:O5'	2.46	0.61
2:J:223:A:C5	2:J:224:A:C8	2.87	0.61
3:K:4:A:H2'	3:K:5:A:C8	2.34	0.61
3:K:37:A:H2'	3:K:38:A:H8	1.64	0.61
3:K:54:A:C2'	3:K:55:A:P	2.89	0.61
3:K:55:A:O2'	3:K:56:A:H5'	1.99	0.61
3:K:151:A:O2'	3:K:152:A:C5'	2.45	0.61
3:K:194:A:H2'	3:K:195:A:H8	1.65	0.61
4:L:429:U:H2'	4:L:430:U:C6	2.35	0.61
4:L:460:U:C2'	4:L:461:U:O5'	2.49	0.61
4:L:481:U:O2'	4:L:482:U:H5'	1.99	0.61
4:L:502:U:H2'	4:L:503:U:C6	2.36	0.61
4:L:529:U:C2'	4:L:530:U:O5'	2.47	0.61
4:L:590:U:C2	4:L:591:U:C6	2.88	0.61
4:L:692:U:C2'	4:L:693:U:O5'	2.47	0.61
4:L:698:U:H2'	4:L:699:U:H6	1.65	0.61
4:L:713:U:O2'	4:L:714:U:O4'	2.18	0.61
4:L:777:U:N3	4:L:778:U:C5	2.68	0.61
5:M:296:U:C2	5:M:297:U:C6	2.88	0.61
5:M:336:U:N1	5:M:337:U:C6	2.67	0.61
5:M:346:U:O2	5:M:347:U:C6	2.53	0.61
5:M:347:U:C2'	5:M:348:U:O4'	2.49	0.61
5:M:351:U:N3	5:M:352:U:C5	2.68	0.61
5:M:461:U:C2	5:M:462:U:C6	2.88	0.61
5:M:505:U:O2	5:M:506:U:C6	2.53	0.61
6:N:327:U:H2'	6:N:328:U:C4'	2.29	0.61
6:N:336:U:H2'	6:N:337:U:H6	1.64	0.61
1:I:58:A:C2'	1:I:59:A:H8	2.08	0.61
1:I:62:A:N3	1:I:63:A:N9	2.48	0.61
1:I:68:A:N3	1:I:69:A:C8	2.68	0.61
1:I:96:A:H62	1:I:97:A:N6	1.96	0.61
1:I:151:A:HO2'	1:I:152:A:H5'	1.61	0.61
1:I:206:A:O2'	1:I:207:A:H5'	2.00	0.61
1:I:400:A:H2'	1:I:401:A:H8	1.65	0.61
2:J:44:A:C2	2:J:45:A:C8	2.89	0.61
2:J:100:A:C2'	2:J:101:A:O5'	2.46	0.61
2:J:122:A:C4	2:J:123:A:N7	2.69	0.61
2:J:198:A:C2'	2:J:199:A:C5'	2.78	0.61
3:K:99:A:C2	3:K:100:A:C8	2.88	0.61
3:K:104:A:H2'	3:K:105:A:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:193:A:O2'	3:K:194:A:H5'	2.00	0.61
4:L:508:U:C4	4:L:509:U:C5	2.88	0.61
4:L:528:U:H2'	4:L:529:U:C6	2.33	0.61
4:L:590:U:N3	4:L:591:U:C5	2.67	0.61
4:L:656:U:N3	4:L:657:U:C5	2.69	0.61
4:L:723:U:C6	4:L:724:U:C6	2.87	0.61
4:L:786:U:O2	4:L:787:U:C6	2.53	0.61
5:M:310:U:C2'	5:M:311:U:C5'	2.78	0.61
5:M:355:U:C2'	5:M:356:U:H5'	2.29	0.61
5:M:502:U:C2	5:M:503:U:C6	2.89	0.61
5:M:528:U:C2	5:M:529:U:C5	2.88	0.61
5:M:541:U:H2'	5:M:542:U:C6	2.34	0.61
5:M:548:U:H2'	5:M:549:U:C6	2.35	0.61
6:N:331:U:C2	6:N:332:U:C5	2.88	0.61
6:N:339:U:C2'	6:N:340:U:H5'	2.30	0.61
6:N:465:U:C4	6:N:466:U:O4	2.52	0.61
1:I:46:A:C4	1:I:47:A:N7	2.68	0.61
1:I:54:A:N1	1:I:55:A:N6	2.48	0.61
1:I:73:A:H2'	1:I:74:A:C1'	2.29	0.61
1:I:88:A:C2'	1:I:89:A:H5'	2.26	0.61
1:I:109:A:H2	1:I:110:A:N3	1.98	0.61
1:I:174:A:C2	1:I:175:A:C4	2.89	0.61
1:I:194:A:C6	1:I:195:A:N6	2.68	0.61
1:I:287:A:H2'	1:I:288:A:C4'	2.30	0.61
1:I:358:A:H2	1:I:359:A:C4	2.19	0.61
2:J:106:A:C4	2:J:107:A:C8	2.88	0.61
2:J:107:A:C2	2:J:108:A:C4	2.88	0.61
2:J:182:A:H2'	2:J:183:A:H8	1.65	0.61
2:J:197:A:O2'	2:J:198:A:H5'	1.99	0.61
2:J:236:A:C6	2:J:237:A:N6	2.67	0.61
3:K:81:A:H2'	3:K:82:A:H8	1.66	0.61
3:K:96:A:O2'	3:K:97:A:O4'	2.18	0.61
3:K:130:A:H2'	3:K:131:A:O5'	2.00	0.61
3:K:142:A:O2'	3:K:143:A:P	2.57	0.61
3:K:181:A:C4	3:K:182:A:N7	2.69	0.61
4:L:557:U:N3	4:L:558:U:C4	2.69	0.61
4:L:627:U:H2'	4:L:628:U:O5'	2.00	0.61
5:M:298:U:O2'	5:M:299:U:C5'	2.36	0.61
5:M:303:U:O2'	5:M:304:U:C5'	2.43	0.61
5:M:392:U:C3'	5:M:393:U:C5'	2.54	0.61
6:N:294:U:C2'	6:N:295:U:H5'	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:320:U:O2'	6:N:321:U:C4'	2.48	0.61
6:N:341:U:HO3'	6:N:342:U:P	2.23	0.61
6:N:425:U:C3'	6:N:426:U:H6	2.12	0.61
1:I:65:A:H2'	1:I:66:A:O4'	2.00	0.61
1:I:90:A:H2'	1:I:91:A:C8	2.34	0.61
1:I:156:A:C5	1:I:157:A:N7	2.68	0.61
1:I:181:A:C4	1:I:182:A:C8	2.89	0.61
1:I:188:A:C2'	1:I:189:A:C5'	2.79	0.61
1:I:245:A:N1	1:I:246:A:C5	2.68	0.61
1:I:324:A:H2'	1:I:325:A:O5'	2.01	0.61
2:J:11:A:C2'	2:J:12:A:C4'	2.78	0.61
2:J:120:A:C2	2:J:121:A:C8	2.89	0.61
2:J:184:A:C2	2:J:185:A:N9	2.68	0.61
3:K:23:A:C3'	3:K:24:A:P	2.88	0.61
3:K:103:A:C4	3:K:104:A:C8	2.88	0.61
3:K:138:A:N6	3:K:139:A:N6	2.47	0.61
4:L:460:U:H2'	4:L:461:U:C5'	2.30	0.61
4:L:606:U:C2'	4:L:607:U:H5'	2.30	0.61
4:L:669:U:C2'	4:L:670:U:H5'	2.30	0.61
4:L:699:U:C2	4:L:700:U:C5	2.87	0.61
4:L:711:U:O2'	4:L:712:U:O4'	2.18	0.61
5:M:487:U:H2'	5:M:488:U:H6	1.63	0.61
5:M:496:U:C2	5:M:497:U:C6	2.89	0.61
6:N:361:U:H2'	6:N:362:U:H6	1.66	0.61
6:N:475:U:H2'	6:N:476:U:H6	1.65	0.61
6:N:527:U:H2'	6:N:528:U:H6	1.66	0.61
1:I:11:A:H2'	1:I:12:A:C8	2.34	0.61
1:I:44:A:C2	1:I:45:A:N7	2.68	0.61
1:I:66:A:C4	1:I:67:A:N7	2.66	0.61
1:I:89:A:H2'	1:I:90:A:H8	1.64	0.61
1:I:277:A:C2'	1:I:278:A:C8	2.79	0.61
1:I:285:A:H2'	1:I:286:A:C5'	2.31	0.61
2:J:128:A:H2'	2:J:129:A:C5'	2.28	0.61
2:J:147:A:H2	2:J:148:A:C4	2.15	0.61
2:J:202:A:C4	2:J:203:A:C8	2.88	0.61
2:J:226:A:C2	2:J:227:A:N7	2.68	0.61
3:K:5:A:H2'	3:K:6:A:C8	2.36	0.61
3:K:80:A:C2	3:K:81:A:C5	2.89	0.61
3:K:167:A:H2'	3:K:168:A:C5'	2.30	0.61
4:L:437:U:H2'	4:L:438:U:H6	1.65	0.61
4:L:471:U:O2'	4:L:472:U:P	2.58	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:484:U:C2'	4:L:485:U:O5'	2.49	0.61
4:L:548:U:C2	4:L:549:U:C6	2.88	0.61
4:L:568:U:N3	4:L:569:U:C5	2.69	0.61
4:L:574:U:O4	4:L:575:U:O4	2.19	0.61
4:L:595:U:H2'	4:L:596:U:O4'	2.00	0.61
4:L:598:U:HO2'	4:L:599:U:H5'	1.63	0.61
4:L:639:U:H2'	4:L:640:U:C5'	2.29	0.61
5:M:331:U:H2'	5:M:332:U:C5'	2.29	0.61
5:M:437:U:C2	5:M:438:U:C6	2.89	0.61
5:M:438:U:C2'	5:M:439:U:C5'	2.77	0.61
5:M:456:U:C2	5:M:457:U:C6	2.89	0.61
5:M:491:U:H2'	5:M:492:U:O5'	2.01	0.61
6:N:457:U:C3'	6:N:458:U:P	2.88	0.61
6:N:492:U:C2'	6:N:493:U:C5'	2.78	0.61
1:I:20:A:C2'	1:I:21:A:C5'	2.78	0.61
1:I:115:A:O2'	1:I:116:A:C5'	2.49	0.61
1:I:123:A:C2'	1:I:124:A:H5'	2.30	0.61
1:I:135:A:N1	1:I:136:A:C5	2.68	0.61
1:I:185:A:N3	1:I:186:A:C8	2.68	0.61
1:I:227:A:N3	1:I:228:A:C8	2.69	0.61
1:I:236:A:N1	1:I:237:A:C5	2.68	0.61
1:I:258:A:C4	1:I:259:A:C8	2.88	0.61
2:J:13:A:C2	2:J:14:A:N7	2.69	0.61
2:J:44:A:C4	2:J:45:A:C8	2.88	0.61
2:J:102:A:C4	2:J:103:A:N7	2.68	0.61
2:J:151:A:O2'	2:J:152:A:H5'	2.01	0.61
2:J:204:A:C2'	2:J:205:A:C8	2.77	0.61
2:J:229:A:C2'	2:J:230:A:C4'	2.74	0.61
3:K:34:A:O2'	3:K:35:A:H5'	2.00	0.61
3:K:100:A:O2'	3:K:101:A:C4'	2.49	0.61
3:K:139:A:C2	3:K:140:A:C4	2.89	0.61
4:L:417:U:H2'	4:L:418:U:H6	1.65	0.61
4:L:617:U:HO2'	4:L:618:U:H5'	1.63	0.61
4:L:810:U:O2'	4:L:811:U:C4'	2.47	0.61
4:L:816:U:C4	4:L:817:U:O4	2.53	0.61
5:M:348:U:C4	5:M:349:U:C5	2.87	0.61
5:M:430:U:H2'	5:M:431:U:H6	1.65	0.61
6:N:271:U:C3'	6:N:272:U:P	2.87	0.61
6:N:350:U:C4	6:N:351:U:O4	2.54	0.61
6:N:390:U:C2	6:N:391:U:C5	2.89	0.61
6:N:406:U:N3	6:N:407:U:C4	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:449:U:C2'	6:N:450:U:O4'	2.49	0.61
6:N:467:U:H2'	6:N:468:U:C5'	2.28	0.61
1:I:16:A:H61	1:I:17:A:N6	1.99	0.61
1:I:90:A:C2'	1:I:91:A:O4'	2.48	0.61
1:I:102:A:C5	1:I:103:A:C5	2.88	0.61
1:I:401:A:C6	1:I:402:A:N6	2.69	0.61
2:J:6:A:C2	2:J:7:A:C5	2.89	0.61
2:J:69:A:C4	2:J:70:A:C8	2.89	0.61
2:J:86:A:N3	2:J:87:A:C8	2.69	0.61
2:J:91:A:C2	2:J:92:A:C8	2.88	0.61
2:J:101:A:C6	2:J:102:A:C5	2.89	0.61
2:J:222:A:C2	2:J:223:A:C8	2.89	0.61
3:K:9:A:O2'	3:K:10:A:H5'	2.00	0.61
3:K:118:A:O2'	3:K:119:A:C4'	2.47	0.61
3:K:130:A:C2	3:K:131:A:C4	2.88	0.61
4:L:517:U:C2'	4:L:518:U:O4'	2.46	0.61
4:L:524:U:H2'	4:L:525:U:O5'	2.01	0.61
4:L:537:U:HO2'	4:L:538:U:C4'	2.14	0.61
4:L:551:U:O2	4:L:552:U:C6	2.53	0.61
4:L:580:U:C2	4:L:581:U:C5	2.89	0.61
4:L:612:U:H2'	4:L:613:U:H6	1.66	0.61
4:L:736:U:H2'	4:L:737:U:O5'	2.00	0.61
5:M:432:U:H2'	5:M:433:U:O5'	1.99	0.61
5:M:452:U:C2'	5:M:453:U:O5'	2.48	0.61
6:N:410:U:N3	6:N:411:U:C5	2.68	0.61
1:I:61:A:C4	1:I:62:A:C8	2.89	0.61
1:I:78:A:N1	1:I:79:A:C6	2.68	0.61
1:I:118:A:N6	1:I:119:A:H62	1.98	0.61
1:I:150:A:O2'	1:I:151:A:C5'	2.42	0.61
1:I:183:A:C2	1:I:184:A:C5	2.88	0.61
1:I:199:A:O2'	1:I:200:A:H5'	2.01	0.61
1:I:227:A:C4	1:I:228:A:C8	2.88	0.61
1:I:276:A:O2'	1:I:277:A:H5'	2.01	0.61
1:I:307:A:H2'	1:I:308:A:H8	1.64	0.61
2:J:21:A:C2	2:J:22:A:C8	2.89	0.61
2:J:34:A:C2	2:J:35:A:N9	2.68	0.61
2:J:61:A:C2	2:J:62:A:C4	2.88	0.61
2:J:118:A:O2'	2:J:119:A:P	2.57	0.61
2:J:119:A:N6	2:J:120:A:H61	1.91	0.61
2:J:187:A:N3	2:J:188:A:C8	2.68	0.61
2:J:260:A:C2'	2:J:261:A:C5'	2.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:99:A:H2'	3:K:100:A:C4'	2.30	0.61
3:K:101:A:O2'	3:K:102:A:H5'	1.99	0.61
3:K:104:A:H2'	3:K:105:A:O4'	2.01	0.61
3:K:137:A:H2'	3:K:138:A:O5'	2.01	0.61
3:K:155:A:N6	3:K:156:A:C6	2.68	0.61
3:K:160:A:C2'	3:K:161:A:C5'	2.79	0.61
4:L:488:U:H2'	4:L:489:U:C6	2.35	0.61
4:L:585:U:H2'	4:L:586:U:O4'	2.00	0.61
4:L:588:U:C2	4:L:589:U:C5	2.89	0.61
4:L:700:U:C2	4:L:701:U:C5	2.88	0.61
4:L:762:U:H2'	4:L:763:U:O5'	2.01	0.61
4:L:762:U:C2'	4:L:763:U:C5'	2.78	0.61
4:L:770:U:H2'	4:L:771:U:H6	1.65	0.61
5:M:346:U:H2'	5:M:347:U:C5'	2.29	0.61
5:M:375:U:H2'	5:M:376:U:H6	1.63	0.61
5:M:386:U:H2'	5:M:387:U:C5	2.36	0.61
5:M:468:U:C2	5:M:469:U:H5	2.14	0.61
5:M:522:U:O2'	5:M:523:U:C5'	2.37	0.61
5:M:547:U:N3	5:M:548:U:C4	2.69	0.61
6:N:314:U:H2'	6:N:315:U:C6	2.35	0.61
6:N:417:U:H2'	6:N:418:U:C5'	2.28	0.61
1:I:59:A:C2	1:I:60:A:C5	2.89	0.61
1:I:140:A:O2'	1:I:141:A:P	2.59	0.61
1:I:142:A:C2	1:I:143:A:C4	2.89	0.61
1:I:252:A:C2'	1:I:253:A:C5'	2.79	0.61
1:I:269:A:C2'	1:I:270:A:O4'	2.47	0.61
1:I:320:A:C2	1:I:321:A:C8	2.88	0.61
1:I:322:A:C6	1:I:323:A:C6	2.89	0.61
2:J:53:A:O2'	2:J:54:A:H5'	2.01	0.61
2:J:73:A:C2	2:J:74:A:C4	2.88	0.61
2:J:90:A:O2'	2:J:91:A:C5'	2.43	0.61
2:J:116:A:H2'	2:J:117:A:H8	1.66	0.61
2:J:204:A:C2	2:J:205:A:C5	2.88	0.61
2:J:215:A:H2'	2:J:216:A:O5'	1.99	0.61
3:K:31:A:C5	3:K:32:A:N7	2.69	0.61
3:K:87:A:N1	3:K:88:A:C5	2.69	0.61
3:K:122:A:H2'	3:K:123:A:H8	1.66	0.61
3:K:163:A:C2'	3:K:164:A:H5'	2.31	0.61
4:L:422:U:O2'	4:L:423:U:C5'	2.49	0.61
4:L:439:U:C3'	4:L:440:U:P	2.87	0.61
4:L:541:U:O2'	4:L:542:U:C5'	2.44	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:577:U:H2'	4:L:578:U:H6	1.66	0.61
4:L:596:U:C4	4:L:597:U:O4	2.54	0.61
4:L:605:U:N3	4:L:606:U:C5	2.68	0.61
4:L:611:U:N3	4:L:612:U:C5	2.69	0.61
4:L:650:U:C2'	4:L:651:U:C5'	2.79	0.61
4:L:760:U:N3	4:L:761:U:C5	2.68	0.61
4:L:777:U:H2'	4:L:778:U:H6	1.66	0.61
5:M:455:U:C4	5:M:456:U:C5	2.89	0.61
5:M:483:U:H2'	5:M:484:U:O5'	2.00	0.61
5:M:494:U:C2'	5:M:495:U:H5'	2.24	0.61
6:N:379:U:C2'	6:N:380:U:O4'	2.47	0.61
6:N:401:U:C2	6:N:402:U:C6	2.88	0.61
6:N:454:U:C2'	6:N:455:U:O4'	2.49	0.61
1:I:67:A:C2'	1:I:68:A:H8	2.14	0.60
1:I:222:A:C5	1:I:223:A:N7	2.69	0.60
1:I:230:A:C2'	1:I:231:A:O4'	2.49	0.60
1:I:242:A:C2	1:I:243:A:C8	2.88	0.60
1:I:309:A:O2'	1:I:310:A:H5'	2.01	0.60
1:I:365:A:O2'	1:I:366:A:H5'	2.01	0.60
1:I:385:A:C3'	1:I:386:A:P	2.87	0.60
2:J:69:A:C2'	2:J:70:A:C4'	2.77	0.60
2:J:84:A:H2'	2:J:85:A:O4'	2.01	0.60
2:J:91:A:N3	2:J:92:A:C8	2.69	0.60
2:J:99:A:C4	2:J:100:A:N7	2.69	0.60
2:J:165:A:C6	2:J:166:A:C6	2.89	0.60
2:J:252:A:C2'	2:J:253:A:C5'	2.79	0.60
3:K:40:A:N6	3:K:41:A:H62	1.98	0.60
3:K:110:A:C2'	3:K:111:A:C4'	2.79	0.60
3:K:163:A:C4	3:K:164:A:C8	2.88	0.60
4:L:559:U:H2'	4:L:560:U:H6	1.65	0.60
4:L:738:U:N3	4:L:739:U:C4	2.69	0.60
4:L:811:U:H2'	4:L:812:U:C4'	2.27	0.60
5:M:324:U:C2'	5:M:325:U:H6	2.13	0.60
5:M:376:U:H2'	5:M:377:U:H6	1.64	0.60
5:M:420:U:H2'	5:M:421:U:C6	2.35	0.60
5:M:480:U:H2'	5:M:481:U:C5	2.35	0.60
5:M:496:U:C2	5:M:497:U:C5	2.88	0.60
5:M:531:U:H2'	5:M:532:U:O4'	2.01	0.60
6:N:316:U:O2'	6:N:317:U:O4'	2.19	0.60
6:N:318:U:N3	6:N:319:U:C4	2.69	0.60
6:N:365:U:O2'	6:N:366:U:P	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:377:U:O2	6:N:378:U:N1	2.34	0.60
6:N:420:U:O2	6:N:421:U:C6	2.53	0.60
6:N:481:U:H2'	6:N:482:U:O5'	2.01	0.60
6:N:527:U:H2'	6:N:528:U:C6	2.35	0.60
1:I:11:A:C4	1:I:12:A:N7	2.69	0.60
1:I:157:A:C2'	1:I:158:A:H5'	2.30	0.60
1:I:244:A:C2	1:I:245:A:C5	2.89	0.60
1:I:280:A:N1	1:I:281:A:C6	2.69	0.60
1:I:303:A:N3	1:I:304:A:C8	2.69	0.60
1:I:343:A:H2'	1:I:344:A:C5'	2.31	0.60
2:J:69:A:H2'	2:J:70:A:O5'	1.99	0.60
3:K:56:A:H2'	3:K:57:A:H8	1.66	0.60
3:K:205:A:H2'	3:K:206:A:C8	2.36	0.60
4:L:531:U:H2'	4:L:532:U:C5'	2.30	0.60
4:L:700:U:N3	4:L:701:U:C5	2.69	0.60
4:L:746:U:H2'	4:L:747:U:C6	2.36	0.60
5:M:327:U:H2'	5:M:328:U:O5'	2.01	0.60
5:M:460:U:C2'	5:M:461:U:C5'	2.79	0.60
5:M:522:U:H2'	5:M:523:U:O4'	2.01	0.60
5:M:534:U:O2'	5:M:535:U:P	2.59	0.60
6:N:415:U:C2	6:N:416:U:C5	2.89	0.60
1:I:8:A:C5	1:I:9:A:N7	2.70	0.60
1:I:18:A:C2	4:L:808:U:C2	2.89	0.60
1:I:31:A:N3	1:I:32:A:C8	2.69	0.60
1:I:54:A:N6	1:I:55:A:N6	2.49	0.60
1:I:62:A:H2'	1:I:63:A:H8	1.67	0.60
1:I:74:A:H2'	1:I:75:A:C8	2.36	0.60
1:I:104:A:N6	1:I:105:A:H62	1.97	0.60
1:I:131:A:H2'	1:I:132:A:H8	1.66	0.60
1:I:175:A:H2'	1:I:176:A:H8	1.65	0.60
1:I:205:A:N3	1:I:206:A:C8	2.70	0.60
1:I:237:A:C4	1:I:238:A:C8	2.88	0.60
1:I:242:A:N3	1:I:243:A:O4'	2.34	0.60
1:I:277:A:N1	1:I:278:A:C6	2.69	0.60
1:I:278:A:O2'	1:I:279:A:C4'	2.49	0.60
1:I:283:A:C2	1:I:284:A:C6	2.88	0.60
1:I:296:A:C4	1:I:297:A:C8	2.89	0.60
1:I:375:A:H2'	1:I:376:A:H8	1.66	0.60
2:J:12:A:C6	2:J:13:A:N7	2.68	0.60
3:K:28:A:O2'	3:K:29:A:H5'	2.02	0.60
4:L:689:U:C2	4:L:690:U:C6	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:756:U:H2'	4:L:757:U:H6	1.65	0.60
4:L:763:U:N3	4:L:764:U:C5	2.69	0.60
4:L:798:U:H2'	4:L:799:U:H6	1.66	0.60
5:M:289:U:H2'	5:M:290:U:H6	1.65	0.60
5:M:318:U:C2'	5:M:319:U:O5'	2.47	0.60
5:M:423:U:H2'	5:M:424:U:H6	1.65	0.60
5:M:425:U:C2'	5:M:426:U:C5'	2.77	0.60
5:M:448:U:C2'	5:M:449:U:O5'	2.42	0.60
5:M:469:U:N3	5:M:470:U:C5	2.65	0.60
5:M:513:U:C2	5:M:514:U:C6	2.89	0.60
6:N:367:U:H2'	6:N:368:U:H6	1.65	0.60
6:N:448:U:C2	6:N:449:U:C5	2.89	0.60
6:N:470:U:H2'	6:N:471:U:H6	1.65	0.60
1:I:42:A:C2	1:I:43:A:C4	2.89	0.60
1:I:65:A:N3	1:I:66:A:C1'	2.65	0.60
1:I:259:A:H2'	1:I:260:A:C5'	2.29	0.60
1:I:274:A:C2	1:I:275:A:C5	2.89	0.60
2:J:51:A:C2'	2:J:52:A:O4'	2.50	0.60
2:J:54:A:H2'	2:J:55:A:H8	1.66	0.60
2:J:56:A:N3	2:J:57:A:C8	2.69	0.60
2:J:129:A:O2'	2:J:130:A:C5'	2.32	0.60
3:K:181:A:C4	3:K:182:A:C8	2.89	0.60
4:L:415:U:H2'	4:L:416:U:C6	2.37	0.60
4:L:569:U:H2'	4:L:570:U:H6	1.67	0.60
4:L:573:U:N3	4:L:574:U:C5	2.69	0.60
4:L:665:U:O2'	4:L:666:U:H5'	2.02	0.60
4:L:713:U:O2'	4:L:714:U:C5'	2.44	0.60
5:M:428:U:H2'	5:M:429:U:O4'	2.01	0.60
5:M:483:U:C2'	5:M:484:U:O5'	2.48	0.60
5:M:486:U:C2	5:M:487:U:C6	2.89	0.60
5:M:503:U:N3	5:M:504:U:C5	2.70	0.60
6:N:379:U:H2'	6:N:380:U:C4'	2.30	0.60
6:N:473:U:C2'	6:N:474:U:C6	2.81	0.60
1:I:4:A:N1	1:I:5:A:N6	2.49	0.60
1:I:74:A:N3	1:I:75:A:N9	2.49	0.60
1:I:119:A:N6	4:L:707:U:O4	2.33	0.60
1:I:172:A:C2	1:I:173:A:C8	2.90	0.60
1:I:184:A:C2	4:L:642:U:O2	2.54	0.60
1:I:281:A:C4	1:I:282:A:N7	2.69	0.60
1:I:300:A:C2	1:I:301:A:C5	2.89	0.60
2:J:45:A:N1	2:J:46:A:C5	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:72:A:C2'	2:J:73:A:O4'	2.48	0.60
2:J:76:A:O2'	2:J:77:A:H5'	2.02	0.60
2:J:88:A:HO2'	2:J:89:A:C5'	1.94	0.60
2:J:94:A:C2	2:J:95:A:C5	2.89	0.60
2:J:198:A:C6	2:J:199:A:C5	2.90	0.60
3:K:73:A:O2'	3:K:74:A:H5'	2.01	0.60
3:K:125:A:C2	3:K:126:A:C8	2.90	0.60
3:K:167:A:N1	3:K:168:A:C5	2.69	0.60
3:K:212:A:C2'	3:K:213:A:H8	2.14	0.60
4:L:487:U:C2'	4:L:488:U:C4'	2.79	0.60
4:L:554:U:H2'	4:L:555:U:C5	2.36	0.60
4:L:643:U:C4	4:L:644:U:O4	2.55	0.60
4:L:823:U:C2	4:L:824:U:C5	2.90	0.60
5:M:318:U:H2'	5:M:319:U:O5'	2.02	0.60
5:M:381:U:N3	5:M:382:U:C4	2.70	0.60
5:M:394:U:H2'	5:M:395:U:C6	2.36	0.60
5:M:509:U:C2'	5:M:510:U:C5'	2.79	0.60
5:M:527:U:H2'	5:M:528:U:H6	1.64	0.60
6:N:363:U:N3	6:N:364:U:C5	2.69	0.60
6:N:366:U:H2'	6:N:367:U:C6	2.37	0.60
6:N:513:U:H2'	6:N:514:U:H6	1.66	0.60
1:I:62:A:C2	1:I:63:A:C5	2.89	0.60
1:I:119:A:N1	1:I:120:A:C5	2.69	0.60
1:I:163:A:H2'	1:I:164:A:O5'	2.01	0.60
1:I:208:A:O2'	1:I:209:A:H5'	2.02	0.60
1:I:212:A:HO2'	1:I:213:A:H5'	1.66	0.60
1:I:308:A:H2'	1:I:309:A:C8	2.36	0.60
2:J:8:A:C2'	2:J:9:A:O5'	2.49	0.60
2:J:62:A:H2'	2:J:63:A:O5'	2.01	0.60
2:J:97:A:N1	2:J:98:A:C5	2.69	0.60
2:J:144:A:N3	2:J:145:A:N9	2.49	0.60
3:K:62:A:C5	3:K:63:A:N7	2.70	0.60
3:K:81:A:C4	3:K:82:A:C8	2.89	0.60
3:K:158:A:C2'	3:K:159:A:H5'	2.31	0.60
3:K:167:A:O2'	3:K:168:A:H5'	2.00	0.60
4:L:459:U:O2'	4:L:460:U:C5'	2.38	0.60
4:L:580:U:O2	4:L:581:U:C6	2.55	0.60
4:L:666:U:C4	4:L:667:U:C5	2.89	0.60
4:L:712:U:O2	4:L:713:U:N1	2.34	0.60
4:L:732:U:C2	4:L:733:U:C5	2.89	0.60
4:L:803:U:O2'	4:L:804:U:H5'	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:319:U:H2'	5:M:320:U:O5'	1.97	0.60
5:M:338:U:C2	5:M:339:U:C6	2.89	0.60
5:M:463:U:C4	5:M:464:U:C4	2.90	0.60
5:M:547:U:C2	5:M:548:U:H5	2.16	0.60
6:N:368:U:C2'	6:N:369:U:H5'	2.30	0.60
6:N:434:U:C2'	6:N:435:U:O4'	2.50	0.60
6:N:439:U:H2'	6:N:440:U:C6	2.36	0.60
6:N:451:U:C2'	6:N:452:U:H5'	2.31	0.60
1:I:31:A:O2'	1:I:32:A:P	2.59	0.60
1:I:69:A:N1	1:I:70:A:C5	2.70	0.60
1:I:84:A:N3	1:I:85:A:N7	2.50	0.60
1:I:128:A:C6	1:I:129:A:N7	2.69	0.60
1:I:132:A:H2'	1:I:133:A:O5'	2.01	0.60
1:I:184:A:C6	1:I:185:A:C6	2.90	0.60
1:I:193:A:N3	1:I:194:A:C8	2.70	0.60
1:I:228:A:C6	1:I:229:A:C6	2.90	0.60
1:I:353:A:C2'	1:I:354:A:O4'	2.50	0.60
1:I:381:A:O2'	1:I:382:A:H5'	2.00	0.60
2:J:5:A:C6	2:J:6:A:N6	2.69	0.60
2:J:29:A:C2'	2:J:30:A:O4'	2.47	0.60
2:J:70:A:C2	2:J:71:A:C8	2.88	0.60
2:J:80:A:C4	2:J:81:A:C8	2.90	0.60
2:J:99:A:C2'	2:J:100:A:C8	2.78	0.60
2:J:153:A:C2	2:J:154:A:C4	2.90	0.60
2:J:170:A:N3	2:J:171:A:C8	2.69	0.60
2:J:187:A:H2'	2:J:188:A:O5'	2.01	0.60
2:J:191:A:H2'	2:J:192:A:C5'	2.31	0.60
2:J:202:A:H2'	2:J:203:A:C5'	2.28	0.60
2:J:205:A:N1	2:J:206:A:C5	2.70	0.60
2:J:221:A:C2	2:J:222:A:C4	2.90	0.60
2:J:253:A:H2'	2:J:254:A:C8	2.36	0.60
3:K:65:A:O5'	3:K:66:A:OP2	2.18	0.60
3:K:108:A:N6	3:K:109:A:N6	2.50	0.60
3:K:125:A:H2'	3:K:126:A:C5'	2.31	0.60
3:K:164:A:O2'	3:K:165:A:H5'	2.02	0.60
4:L:793:U:N3	4:L:794:U:C4	2.70	0.60
5:M:517:U:N3	5:M:518:U:C5	2.69	0.60
6:N:336:U:H2'	6:N:337:U:C6	2.37	0.60
6:N:469:U:O4	6:N:470:U:O4	2.19	0.60
1:I:106:A:H2'	1:I:107:A:C8	2.29	0.60
1:I:120:A:C2'	1:I:121:A:O5'	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:162:A:C4	1:I:163:A:C8	2.89	0.60
1:I:181:A:C6	1:I:182:A:N6	2.70	0.60
1:I:232:A:C6	1:I:233:A:N7	2.69	0.60
1:I:235:A:N1	1:I:236:A:C5	2.69	0.60
1:I:240:A:C2'	1:I:241:A:O5'	2.41	0.60
1:I:376:A:H2'	1:I:377:A:H8	1.66	0.60
1:I:403:A:C2'	1:I:404:A:H5'	2.32	0.60
2:J:44:A:N3	2:J:45:A:C8	2.70	0.60
2:J:124:A:C2	2:J:125:A:N9	2.70	0.60
2:J:153:A:C2'	2:J:154:A:O5'	2.50	0.60
2:J:174:A:O2'	2:J:175:A:H5'	2.02	0.60
2:J:205:A:C2	2:J:206:A:C8	2.90	0.60
2:J:217:A:C4	2:J:218:A:N7	2.70	0.60
3:K:80:A:C4	3:K:81:A:C8	2.89	0.60
3:K:200:A:H2'	3:K:201:A:H8	1.67	0.60
4:L:566:U:O2	4:L:567:U:C6	2.55	0.60
4:L:661:U:C2	4:L:662:U:C6	2.89	0.60
4:L:713:U:O2'	4:L:714:U:C4'	2.50	0.60
5:M:452:U:H2'	5:M:453:U:O5'	2.01	0.60
5:M:505:U:H2'	5:M:506:U:C5'	2.26	0.60
6:N:293:U:C2'	6:N:294:U:H6	2.07	0.60
6:N:391:U:O2	6:N:392:U:C6	2.54	0.60
6:N:429:U:N3	6:N:430:U:C4	2.69	0.60
6:N:435:U:H2'	6:N:436:U:C6	2.37	0.60
1:I:60:A:H2'	1:I:61:A:C8	2.37	0.60
1:I:95:A:H2'	1:I:96:A:H8	1.66	0.60
1:I:126:A:C2'	1:I:127:A:H5'	2.29	0.60
1:I:127:A:O2'	1:I:128:A:C5'	2.35	0.60
1:I:134:A:H61	1:I:135:A:N6	1.95	0.60
1:I:206:A:C2	1:I:207:A:N7	2.69	0.60
1:I:215:A:O2'	1:I:216:A:H5'	2.01	0.60
2:J:17:A:H2'	2:J:18:A:H8	1.66	0.60
2:J:51:A:N6	2:J:52:A:N6	2.50	0.60
2:J:100:A:N3	2:J:101:A:C8	2.69	0.60
2:J:108:A:N1	2:J:109:A:C5	2.69	0.60
2:J:247:A:C2	2:J:248:A:C5	2.90	0.60
3:K:137:A:C4	3:K:138:A:C8	2.90	0.60
3:K:146:A:N3	3:K:147:A:N7	2.49	0.60
4:L:422:U:C2'	4:L:423:U:O4'	2.49	0.60
4:L:530:U:N3	4:L:531:U:C5	2.70	0.60
4:L:630:U:N3	4:L:631:U:C5	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:812:U:N3	4:L:813:U:C5	2.69	0.60
5:M:321:U:N3	5:M:322:U:C4	2.69	0.60
5:M:395:U:H2'	5:M:396:U:C5'	2.30	0.60
5:M:411:U:C2'	5:M:412:U:H5'	2.32	0.60
5:M:417:U:C4	5:M:418:U:C5	2.90	0.60
5:M:496:U:O2'	5:M:497:U:P	2.52	0.60
6:N:278:U:C2'	6:N:279:U:C5'	2.80	0.60
1:I:18:A:N1	1:I:19:A:C5	2.70	0.60
1:I:20:A:C2'	1:I:21:A:O4'	2.49	0.60
1:I:41:A:C4	1:I:42:A:C8	2.90	0.60
1:I:43:A:C4	1:I:44:A:C8	2.90	0.60
1:I:57:A:C6	1:I:58:A:C6	2.89	0.60
1:I:108:A:N6	1:I:109:A:N6	2.50	0.60
1:I:152:A:C4	1:I:153:A:N7	2.70	0.60
1:I:187:A:N6	1:I:188:A:H62	2.00	0.60
1:I:229:A:H2'	1:I:230:A:H8	1.67	0.60
1:I:255:A:H2'	1:I:256:A:O4'	2.02	0.60
1:I:265:A:C6	1:I:266:A:C5	2.90	0.60
2:J:52:A:C4	2:J:53:A:C8	2.90	0.60
2:J:83:A:N3	2:J:84:A:N9	2.49	0.60
2:J:94:A:C2	2:J:95:A:N9	2.70	0.60
2:J:153:A:C2	2:J:154:A:C8	2.90	0.60
2:J:204:A:C2'	2:J:205:A:O4'	2.49	0.60
3:K:79:A:H2'	3:K:80:A:H8	1.66	0.60
3:K:104:A:C2	3:K:105:A:N9	2.69	0.60
3:K:111:A:H2'	3:K:112:A:H8	1.67	0.60
3:K:150:A:O2'	3:K:151:A:H5'	2.02	0.60
4:L:567:U:H2'	4:L:568:U:C5'	2.28	0.60
4:L:662:U:N3	4:L:663:U:C4	2.69	0.60
5:M:365:U:H2'	5:M:366:U:C5'	2.31	0.60
5:M:466:U:N3	5:M:467:U:C5	2.69	0.60
5:M:516:U:H2'	5:M:517:U:H6	1.65	0.60
5:M:528:U:O2'	5:M:529:U:H5'	2.01	0.60
5:M:538:U:C2	5:M:539:U:C6	2.90	0.60
6:N:404:U:C2	6:N:405:U:C5	2.90	0.60
6:N:425:U:C5	6:N:426:U:C5	2.90	0.60
6:N:477:U:C2'	6:N:478:U:C5'	2.78	0.60
1:I:115:A:C2	1:I:116:A:C5	2.90	0.59
1:I:180:A:N3	1:I:181:A:O4'	2.35	0.59
1:I:181:A:C6	1:I:182:A:N7	2.70	0.59
1:I:228:A:N6	1:I:229:A:H62	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:241:A:C6	1:I:242:A:N6	2.69	0.59
2:J:39:A:C4	2:J:40:A:C8	2.90	0.59
2:J:84:A:HO2'	2:J:85:A:H5'	1.66	0.59
2:J:93:A:H2'	2:J:94:A:H8	1.67	0.59
2:J:160:A:H2'	2:J:161:A:H8	1.65	0.59
2:J:183:A:N3	2:J:184:A:O4'	2.35	0.59
2:J:198:A:C2	2:J:199:A:C4	2.90	0.59
2:J:262:A:H2'	2:J:263:A:H8	1.66	0.59
3:K:108:A:O2'	3:K:109:A:H5'	2.02	0.59
3:K:120:A:H61	3:K:121:A:N6	1.99	0.59
3:K:128:A:H2'	3:K:129:A:C8	2.37	0.59
4:L:477:U:C2'	4:L:478:U:C4'	2.80	0.59
4:L:534:U:H2'	4:L:535:U:C6	2.37	0.59
4:L:563:U:N3	4:L:564:U:C5	2.70	0.59
4:L:647:U:C2'	4:L:648:U:O4'	2.49	0.59
4:L:692:U:C2	4:L:693:U:C6	2.90	0.59
4:L:756:U:C2	4:L:757:U:C6	2.90	0.59
5:M:297:U:C2'	5:M:298:U:C5'	2.80	0.59
5:M:329:U:N3	5:M:330:U:C5	2.69	0.59
5:M:331:U:C2'	5:M:332:U:O5'	2.50	0.59
5:M:342:U:C2	5:M:343:U:C5	2.90	0.59
5:M:348:U:N3	5:M:349:U:O4	2.25	0.59
5:M:405:U:H2'	5:M:406:U:C6	2.35	0.59
5:M:488:U:O2'	5:M:489:U:C5'	2.45	0.59
6:N:342:U:H2'	6:N:343:U:H6	1.66	0.59
6:N:424:U:N3	6:N:425:U:C5	2.70	0.59
1:I:8:A:C6	1:I:9:A:N6	2.70	0.59
1:I:17:A:C4	1:I:18:A:C8	2.90	0.59
1:I:44:A:C2	1:I:45:A:C5	2.90	0.59
1:I:54:A:H2'	1:I:55:A:H8	1.66	0.59
1:I:68:A:C5	1:I:69:A:C8	2.89	0.59
1:I:82:A:O2'	1:I:83:A:C5'	2.35	0.59
1:I:130:A:N1	1:I:131:A:C5	2.71	0.59
1:I:138:A:H2'	1:I:139:A:C4'	2.31	0.59
1:I:189:A:O2'	1:I:190:A:C5'	2.41	0.59
1:I:273:A:C6	1:I:274:A:C5	2.90	0.59
1:I:278:A:C4	1:I:279:A:C8	2.90	0.59
2:J:67:A:C2	2:J:68:A:C8	2.90	0.59
2:J:67:A:H2'	2:J:68:A:O5'	2.02	0.59
2:J:87:A:N3	2:J:88:A:C8	2.70	0.59
2:J:121:A:O2'	2:J:122:A:C5'	2.44	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:124:A:O2'	2:J:125:A:P	2.61	0.59
3:K:81:A:C2'	3:K:82:A:O5'	2.50	0.59
3:K:103:A:C2	3:K:104:A:C4	2.91	0.59
3:K:106:A:C6	3:K:107:A:C6	2.89	0.59
3:K:168:A:C4	3:K:169:A:C8	2.89	0.59
3:K:193:A:H2'	3:K:194:A:H8	1.65	0.59
4:L:521:U:O2'	4:L:522:U:C5'	2.36	0.59
4:L:529:U:H2'	4:L:530:U:C5'	2.32	0.59
4:L:589:U:H2'	4:L:590:U:H6	1.67	0.59
4:L:648:U:C4	4:L:649:U:C4	2.89	0.59
4:L:657:U:C2'	4:L:658:U:H5'	2.30	0.59
4:L:699:U:C4	4:L:700:U:C4	2.89	0.59
4:L:739:U:H2'	4:L:740:U:H6	1.68	0.59
5:M:298:U:C2	5:M:299:U:C5	2.89	0.59
5:M:396:U:C2	5:M:397:U:C6	2.91	0.59
5:M:460:U:C2'	5:M:461:U:H5'	2.32	0.59
5:M:482:U:C2'	5:M:483:U:O5'	2.48	0.59
5:M:525:U:H2'	5:M:526:U:H6	1.67	0.59
6:N:317:U:H2'	6:N:318:U:O4'	2.02	0.59
6:N:374:U:C2'	6:N:375:U:C5'	2.80	0.59
6:N:378:U:H2'	6:N:379:U:C6	2.37	0.59
1:I:12:A:C2	1:I:13:A:C5	2.90	0.59
1:I:175:A:H2	1:I:176:A:C5	2.14	0.59
2:J:88:A:N1	2:J:89:A:C5	2.70	0.59
2:J:248:A:C4	2:J:249:A:C8	2.91	0.59
2:J:254:A:C2	2:J:255:A:C4	2.91	0.59
3:K:110:A:C2'	3:K:111:A:O4'	2.50	0.59
3:K:117:A:H2'	3:K:118:A:H8	1.65	0.59
3:K:128:A:C4	3:K:129:A:C8	2.90	0.59
3:K:188:A:O2'	3:K:189:A:C5'	2.49	0.59
3:K:195:A:N6	3:K:196:A:H62	1.97	0.59
3:K:204:A:C5	3:K:205:A:N7	2.70	0.59
3:K:249:A:HO2'	3:K:250:A:H5'	1.63	0.59
4:L:436:U:C2'	4:L:437:U:H5'	2.32	0.59
4:L:516:U:C2	4:L:517:U:C5	2.90	0.59
4:L:516:U:N3	4:L:517:U:C5	2.70	0.59
4:L:547:U:C6	4:L:548:U:C5	2.90	0.59
4:L:758:U:H2'	4:L:759:U:C6	2.36	0.59
4:L:783:U:C2	4:L:784:U:C6	2.91	0.59
5:M:306:U:HO2'	5:M:307:U:H5'	1.66	0.59
5:M:410:U:C6	5:M:411:U:H5	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:383:U:C2'	6:N:384:U:C5'	2.80	0.59
6:N:391:U:O2'	6:N:392:U:P	2.60	0.59
6:N:417:U:C2'	6:N:418:U:C4'	2.79	0.59
6:N:419:U:O2'	6:N:420:U:H5'	2.01	0.59
6:N:431:U:HO2'	6:N:432:U:C5'	1.87	0.59
6:N:486:U:C2'	6:N:487:U:C6	2.77	0.59
1:I:13:A:C2'	1:I:14:A:C8	2.83	0.59
1:I:20:A:C2'	1:I:21:A:H5'	2.32	0.59
1:I:112:A:C2'	1:I:113:A:C5'	2.81	0.59
1:I:175:A:N1	1:I:176:A:C5	2.69	0.59
1:I:177:A:O2'	1:I:178:A:C5'	2.48	0.59
1:I:187:A:C6	1:I:188:A:C6	2.91	0.59
1:I:261:A:O2'	1:I:262:A:C5'	2.49	0.59
1:I:267:A:H2	1:I:268:A:C4	2.14	0.59
1:I:278:A:C2	1:I:279:A:C4	2.90	0.59
1:I:286:A:H2'	1:I:287:A:H8	1.65	0.59
1:I:337:A:H2'	1:I:338:A:C5'	2.31	0.59
1:I:364:A:C2	1:I:365:A:C8	2.90	0.59
2:J:29:A:C2	2:J:30:A:C1'	2.86	0.59
2:J:38:A:H2'	2:J:39:A:O5'	2.01	0.59
2:J:216:A:C6	2:J:217:A:N6	2.69	0.59
3:K:47:A:O5'	3:K:48:A:OP2	2.20	0.59
3:K:93:A:C4	3:K:94:A:C8	2.90	0.59
3:K:95:A:H2'	3:K:96:A:O4'	2.02	0.59
3:K:127:A:C2'	3:K:128:A:C5'	2.81	0.59
3:K:132:A:N3	3:K:133:A:C8	2.71	0.59
3:K:168:A:C2	3:K:169:A:N9	2.70	0.59
4:L:511:U:C2	4:L:512:U:C5	2.89	0.59
4:L:514:U:H2'	4:L:515:U:C6	2.37	0.59
4:L:621:U:H2'	4:L:622:U:H6	1.66	0.59
4:L:630:U:C4	4:L:631:U:O4	2.55	0.59
4:L:635:U:C2	4:L:636:U:C5	2.91	0.59
4:L:747:U:C2'	4:L:748:U:H5'	2.33	0.59
5:M:322:U:H2'	5:M:323:U:C6	2.37	0.59
5:M:352:U:O2	5:M:353:U:C6	2.55	0.59
5:M:364:U:H2'	5:M:365:U:C5'	2.32	0.59
5:M:365:U:C2	5:M:366:U:C6	2.91	0.59
5:M:429:U:H2'	5:M:430:U:O4'	2.02	0.59
5:M:457:U:H2'	5:M:458:U:H6	1.66	0.59
5:M:461:U:N3	5:M:462:U:C5	2.70	0.59
5:M:535:U:O2'	5:M:536:U:C5'	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:481:U:C2	6:N:482:U:C6	2.90	0.59
6:N:526:U:O2'	6:N:527:U:C5'	2.48	0.59
1:I:9:A:H2'	1:I:10:A:O5'	2.03	0.59
1:I:11:A:C5	1:I:12:A:N7	2.71	0.59
1:I:21:A:C2'	1:I:22:A:C5'	2.79	0.59
1:I:63:A:C6	1:I:64:A:C6	2.91	0.59
1:I:74:A:O2'	1:I:75:A:O4'	2.20	0.59
1:I:144:A:H2'	1:I:145:A:C8	2.36	0.59
1:I:180:A:N3	1:I:181:A:C1'	2.65	0.59
1:I:180:A:H2	1:I:181:A:N9	1.95	0.59
1:I:193:A:C2	1:I:194:A:C8	2.90	0.59
1:I:250:A:C2'	1:I:251:A:O4'	2.49	0.59
1:I:280:A:C4	1:I:281:A:N7	2.70	0.59
1:I:321:A:C4	1:I:322:A:C8	2.90	0.59
1:I:323:A:N3	1:I:324:A:C8	2.71	0.59
2:J:72:A:H2'	2:J:73:A:C5'	2.31	0.59
2:J:83:A:O2'	2:J:84:A:H5'	2.00	0.59
2:J:95:A:C2	2:J:96:A:C5	2.91	0.59
2:J:107:A:C4	2:J:108:A:C8	2.90	0.59
2:J:132:A:H2'	2:J:133:A:C5'	2.30	0.59
2:J:186:A:C6	2:J:187:A:N7	2.71	0.59
2:J:229:A:C2'	2:J:230:A:O5'	2.51	0.59
3:K:106:A:C2'	3:K:107:A:C8	2.73	0.59
3:K:164:A:C6	3:K:165:A:N7	2.70	0.59
4:L:483:U:C2	4:L:484:U:C6	2.91	0.59
4:L:573:U:O2'	4:L:574:U:H5'	2.03	0.59
4:L:598:U:O2'	4:L:599:U:C5'	2.43	0.59
4:L:702:U:H2'	4:L:703:U:C6	2.32	0.59
5:M:320:U:N3	5:M:321:U:C5	2.70	0.59
5:M:359:U:C2	5:M:360:U:C5	2.91	0.59
5:M:386:U:O2	5:M:387:U:C5	2.45	0.59
5:M:387:U:H2'	5:M:388:U:C5	2.38	0.59
5:M:405:U:C3'	5:M:406:U:H5'	2.07	0.59
5:M:429:U:C2'	5:M:430:U:C5'	2.80	0.59
5:M:452:U:C2	5:M:453:U:C6	2.90	0.59
5:M:513:U:C2'	5:M:514:U:C5'	2.79	0.59
6:N:320:U:C2'	6:N:321:U:O4'	2.50	0.59
6:N:453:U:HO2'	6:N:454:U:H5'	1.65	0.59
1:I:21:A:O2'	1:I:22:A:O4'	2.19	0.59
1:I:72:A:H2'	1:I:73:A:C5'	2.33	0.59
1:I:192:A:H2'	1:I:193:A:C5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:267:A:H2'	1:I:268:A:C8	2.37	0.59
1:I:362:A:C5	1:I:363:A:N7	2.70	0.59
1:I:390:A:H2'	1:I:391:A:C8	2.37	0.59
2:J:11:A:C2'	2:J:12:A:O5'	2.49	0.59
2:J:51:A:C5	2:J:52:A:N7	2.71	0.59
2:J:64:A:O2'	2:J:65:A:H5'	2.02	0.59
2:J:92:A:H2	2:J:93:A:C5	2.12	0.59
2:J:125:A:C6	2:J:126:A:N6	2.71	0.59
2:J:186:A:C5	2:J:187:A:N7	2.71	0.59
2:J:204:A:N1	2:J:205:A:C5	2.71	0.59
2:J:215:A:N1	2:J:216:A:C5	2.71	0.59
2:J:226:A:C2	2:J:227:A:C5	2.90	0.59
4:L:472:U:H2'	4:L:473:U:H6	1.66	0.59
4:L:569:U:O2'	4:L:570:U:C5'	2.39	0.59
4:L:626:U:N3	4:L:627:U:C5	2.70	0.59
4:L:720:U:C2	4:L:721:U:C5	2.91	0.59
5:M:415:U:O2'	5:M:416:U:H5'	2.03	0.59
5:M:445:U:O2	5:M:446:U:C6	2.55	0.59
5:M:514:U:H2'	5:M:515:U:C5'	2.32	0.59
6:N:309:U:H2'	6:N:310:U:C6	2.37	0.59
6:N:402:U:N3	6:N:403:U:C5	2.71	0.59
1:I:59:A:HO2'	1:I:60:A:H5'	1.66	0.59
1:I:133:A:HO2'	1:I:134:A:C5'	1.89	0.59
1:I:319:A:N6	1:I:320:A:N6	2.51	0.59
1:I:335:A:C5	1:I:336:A:N7	2.70	0.59
1:I:343:A:C2'	1:I:344:A:C5'	2.80	0.59
1:I:372:A:HO2'	1:I:373:A:H5'	1.63	0.59
2:J:51:A:C6	2:J:52:A:C6	2.90	0.59
2:J:55:A:C6	2:J:56:A:C6	2.91	0.59
2:J:69:A:O2'	2:J:70:A:C4'	2.48	0.59
2:J:207:A:C5	2:J:208:A:N7	2.71	0.59
2:J:220:A:C5	2:J:221:A:N7	2.71	0.59
2:J:248:A:H62	2:J:249:A:H62	1.47	0.59
3:K:94:A:C5	3:K:95:A:N7	2.70	0.59
3:K:99:A:C2'	3:K:100:A:C4'	2.80	0.59
3:K:100:A:C6	3:K:101:A:N7	2.71	0.59
3:K:104:A:N1	3:K:105:A:C5	2.71	0.59
3:K:121:A:C6	6:N:411:U:O4	2.55	0.59
3:K:171:A:O2'	3:K:172:A:H5'	2.02	0.59
4:L:531:U:C2'	4:L:532:U:C5'	2.81	0.59
4:L:557:U:N3	4:L:558:U:C6	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:561:U:N3	4:L:562:U:C5	2.70	0.59
4:L:712:U:C2	4:L:713:U:C5	2.88	0.59
4:L:748:U:N3	4:L:749:U:C5	2.71	0.59
4:L:799:U:H2'	4:L:800:U:O5'	2.03	0.59
5:M:326:U:N3	5:M:327:U:C5	2.71	0.59
5:M:345:U:N3	5:M:346:U:C5	2.71	0.59
5:M:388:U:H2'	5:M:389:U:H6	1.67	0.59
5:M:428:U:C2	5:M:429:U:C6	2.91	0.59
6:N:408:U:O2	6:N:409:U:C6	2.55	0.59
6:N:450:U:N3	6:N:451:U:C5	2.70	0.59
6:N:481:U:H2'	6:N:482:U:C5'	2.31	0.59
1:I:4:A:C2'	1:I:5:A:H8	2.11	0.59
1:I:22:A:H2'	1:I:23:A:H8	1.66	0.59
1:I:64:A:H2'	1:I:65:A:C8	2.38	0.59
1:I:74:A:N9	1:I:75:A:C8	2.70	0.59
1:I:129:A:N1	1:I:130:A:C5	2.71	0.59
1:I:245:A:N3	1:I:246:A:N7	2.48	0.59
1:I:248:A:C4	1:I:249:A:C8	2.90	0.59
1:I:316:A:H61	1:I:317:A:N6	2.00	0.59
1:I:353:A:H2'	1:I:354:A:O5'	2.01	0.59
2:J:84:A:C5	2:J:85:A:C8	2.91	0.59
2:J:104:A:C2	2:J:105:A:C8	2.90	0.59
2:J:180:A:C2	2:J:181:A:N7	2.71	0.59
2:J:184:A:C2	2:J:185:A:C4	2.90	0.59
2:J:203:A:C4	2:J:204:A:C8	2.91	0.59
3:K:154:A:C2	3:K:155:A:C4	2.91	0.59
3:K:161:A:C2'	3:K:162:A:H5'	2.33	0.59
4:L:437:U:H2'	4:L:438:U:C5	2.38	0.59
4:L:447:U:C2'	4:L:448:U:P	2.90	0.59
4:L:540:U:H2'	4:L:541:U:H6	1.68	0.59
4:L:552:U:N3	4:L:553:U:O4	2.33	0.59
4:L:581:U:N3	4:L:582:U:O4	2.36	0.59
4:L:584:U:C2'	4:L:585:U:O5'	2.50	0.59
4:L:648:U:C4	4:L:649:U:O4	2.56	0.59
4:L:794:U:H2'	4:L:795:U:C5'	2.32	0.59
5:M:322:U:HO2'	5:M:323:U:C4'	2.16	0.59
5:M:409:U:H2'	5:M:410:U:H6	1.67	0.59
5:M:445:U:H2'	5:M:446:U:H6	1.68	0.59
5:M:488:U:O2'	5:M:489:U:O4'	2.19	0.59
6:N:281:U:C2'	6:N:282:U:O5'	2.51	0.59
6:N:406:U:H2'	6:N:407:U:C5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:416:U:H2'	6:N:417:U:H6	1.68	0.59
1:I:19:A:H2'	1:I:20:A:O4'	2.02	0.59
1:I:86:A:O5'	1:I:87:A:OP2	2.21	0.59
1:I:102:A:C6	1:I:103:A:N6	2.68	0.59
1:I:164:A:C2	1:I:165:A:C4	2.90	0.59
1:I:183:A:N3	1:I:184:A:C1'	2.66	0.59
1:I:196:A:O2'	1:I:197:A:C5'	2.39	0.59
1:I:260:A:C2	1:I:261:A:C8	2.90	0.59
1:I:271:A:N3	1:I:272:A:N9	2.49	0.59
1:I:322:A:N6	1:I:323:A:H62	1.98	0.59
1:I:329:A:H2'	1:I:330:A:C8	2.38	0.59
1:I:342:A:C4	1:I:343:A:C8	2.91	0.59
1:I:353:A:H2'	1:I:354:A:C4'	2.32	0.59
2:J:166:A:C2	2:J:167:A:C8	2.91	0.59
2:J:176:A:H2	2:J:177:A:C4	2.20	0.59
2:J:184:A:C2'	2:J:185:A:O5'	2.47	0.59
3:K:85:A:H2'	3:K:86:A:C5'	2.33	0.59
3:K:101:A:C4	3:K:102:A:N7	2.69	0.59
3:K:162:A:N3	3:K:163:A:C8	2.70	0.59
3:K:203:A:C2	3:K:204:A:C4	2.88	0.59
3:K:212:A:N6	3:K:213:A:H62	1.93	0.59
4:L:435:U:O2'	4:L:436:U:C5'	2.50	0.59
4:L:498:U:H2'	4:L:499:U:H6	1.68	0.59
4:L:577:U:C2	4:L:578:U:C6	2.91	0.59
4:L:579:U:H2'	4:L:580:U:H6	1.66	0.59
4:L:600:U:O2'	4:L:601:U:H5'	2.03	0.59
4:L:681:U:C4	4:L:682:U:C4	2.90	0.59
4:L:728:U:H2'	4:L:729:U:H5	1.68	0.59
4:L:761:U:O4	4:L:762:U:O4	2.19	0.59
4:L:804:U:C2	4:L:805:U:C6	2.90	0.59
4:L:814:U:H2'	4:L:815:U:C4'	2.31	0.59
5:M:366:U:N3	5:M:367:U:C5	2.71	0.59
6:N:463:U:C2'	6:N:464:U:H5'	2.33	0.59
1:I:17:A:N1	1:I:18:A:C5	2.71	0.59
1:I:46:A:N1	1:I:47:A:C5	2.71	0.59
1:I:63:A:H2'	1:I:64:A:H8	1.68	0.59
1:I:97:A:N3	1:I:98:A:C8	2.71	0.59
1:I:165:A:N6	1:I:166:A:H62	2.00	0.59
1:I:221:A:O2'	1:I:222:A:C5'	2.45	0.59
1:I:239:A:C4	1:I:240:A:C8	2.91	0.59
1:I:240:A:C2	1:I:241:A:N9	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:317:A:N3	1:I:318:A:C8	2.71	0.59
2:J:13:A:N1	2:J:14:A:C5	2.70	0.59
2:J:37:A:C2	2:J:38:A:C4	2.91	0.59
2:J:64:A:N1	2:J:65:A:C6	2.71	0.59
2:J:71:A:C4	2:J:72:A:C8	2.91	0.59
2:J:88:A:C2	2:J:89:A:C5	2.90	0.59
2:J:99:A:C2'	2:J:100:A:C5'	2.80	0.59
2:J:133:A:C2	2:J:134:A:C4	2.91	0.59
3:K:154:A:N9	3:K:155:A:C8	2.70	0.59
3:K:155:A:O2'	3:K:156:A:H5'	1.98	0.59
4:L:489:U:N3	4:L:490:U:O4	2.34	0.59
4:L:516:U:C4	4:L:517:U:C4	2.91	0.59
4:L:691:U:H2'	4:L:692:U:C6	2.36	0.59
4:L:692:U:HO2'	4:L:693:U:H5'	1.57	0.59
4:L:762:U:O2'	4:L:763:U:O5'	2.19	0.59
4:L:799:U:C2'	4:L:800:U:O5'	2.49	0.59
4:L:820:U:C4	4:L:821:U:C4	2.91	0.59
5:M:286:U:N3	5:M:287:U:C5	2.70	0.59
5:M:425:U:O2	5:M:426:U:C6	2.56	0.59
5:M:441:U:H2'	5:M:442:U:H6	1.68	0.59
5:M:479:U:O2'	5:M:480:U:H5'	2.01	0.59
6:N:413:U:C2'	6:N:414:U:H5'	2.33	0.59
6:N:416:U:O2	6:N:417:U:O4'	2.21	0.59
6:N:427:U:H2'	6:N:428:U:C5'	2.32	0.59
1:I:35:A:O2'	1:I:36:A:H5'	2.02	0.58
1:I:49:A:C2	1:I:50:A:C4	2.91	0.58
1:I:55:A:C2	1:I:56:A:C5	2.91	0.58
1:I:86:A:N1	1:I:87:A:C5	2.71	0.58
1:I:112:A:N3	1:I:113:A:C8	2.71	0.58
1:I:119:A:C2	1:I:120:A:C5	2.91	0.58
1:I:212:A:H2'	1:I:213:A:O5'	2.03	0.58
1:I:214:A:H2'	1:I:215:A:H8	1.68	0.58
1:I:239:A:C2	1:I:240:A:C8	2.91	0.58
1:I:323:A:N3	1:I:324:A:N9	2.50	0.58
1:I:403:A:O2'	1:I:404:A:C4'	2.50	0.58
2:J:18:A:O2'	2:J:19:A:H5'	2.02	0.58
2:J:24:A:C2	2:J:25:A:C8	2.91	0.58
2:J:50:A:HO2'	2:J:51:A:H5'	1.65	0.58
2:J:63:A:C2	2:J:64:A:C5	2.90	0.58
2:J:210:A:C2'	2:J:211:A:O4'	2.47	0.58
3:K:224:A:H2'	3:K:225:A:C8	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:413:U:H2'	4:L:414:U:H6	1.68	0.58
4:L:486:U:H2'	4:L:487:U:C6	2.38	0.58
4:L:530:U:O2'	4:L:531:U:H5'	2.03	0.58
4:L:562:U:H2'	4:L:563:U:H6	1.67	0.58
4:L:611:U:C2'	4:L:612:U:O4'	2.51	0.58
4:L:675:U:N3	4:L:676:U:C5	2.71	0.58
4:L:684:U:N3	4:L:685:U:C5	2.70	0.58
4:L:713:U:H2'	4:L:714:U:H6	1.68	0.58
4:L:751:U:C2'	4:L:752:U:C6	2.75	0.58
4:L:753:U:O2'	4:L:754:U:H5'	2.03	0.58
4:L:776:U:N3	4:L:777:U:C5	2.71	0.58
4:L:821:U:C2'	4:L:822:U:C5'	2.80	0.58
5:M:471:U:H2'	5:M:472:U:H6	1.67	0.58
5:M:483:U:C2	5:M:484:U:C6	2.90	0.58
5:M:496:U:C2'	5:M:497:U:O5'	2.47	0.58
5:M:518:U:H2'	5:M:519:U:O5'	2.02	0.58
5:M:527:U:C2'	5:M:528:U:H5'	2.33	0.58
6:N:364:U:C2	6:N:365:U:C5	2.91	0.58
6:N:413:U:C4	6:N:414:U:C5	2.91	0.58
6:N:468:U:N3	6:N:469:U:C4	2.71	0.58
1:I:64:A:C2	1:I:65:A:C5	2.91	0.58
1:I:116:A:C2	1:I:117:A:C4	2.90	0.58
2:J:61:A:O2'	2:J:62:A:H5'	2.03	0.58
2:J:118:A:H2'	2:J:119:A:H8	1.69	0.58
2:J:224:A:C6	5:M:330:U:O4	2.56	0.58
2:J:226:A:C2	5:M:328:U:C2	2.91	0.58
3:K:46:A:HO2'	3:K:47:A:C4'	2.13	0.58
3:K:71:A:N3	3:K:72:A:N7	2.50	0.58
3:K:82:A:C2'	3:K:83:A:H5'	2.33	0.58
3:K:188:A:H2'	3:K:189:A:H8	1.68	0.58
4:L:422:U:C2'	4:L:423:U:C5'	2.81	0.58
4:L:426:U:H2'	4:L:427:U:H6	1.67	0.58
4:L:489:U:H2'	4:L:490:U:H6	1.67	0.58
4:L:497:U:C4	4:L:498:U:C5	2.90	0.58
4:L:525:U:C2	4:L:526:U:C6	2.91	0.58
4:L:618:U:C2	4:L:619:U:C6	2.91	0.58
4:L:667:U:H2'	4:L:668:U:C6	2.35	0.58
4:L:703:U:H2'	4:L:704:U:H6	1.65	0.58
5:M:346:U:C2	5:M:347:U:C5	2.92	0.58
5:M:437:U:C3'	5:M:438:U:C5'	2.80	0.58
5:M:519:U:C2'	5:M:520:U:H5'	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:43:A:H2'	1:I:44:A:H8	1.68	0.58
1:I:54:A:N6	1:I:55:A:H62	2.00	0.58
1:I:56:A:C4	1:I:57:A:C8	2.91	0.58
1:I:85:A:N1	1:I:86:A:C5	2.71	0.58
1:I:110:A:H2'	1:I:111:A:H8	1.65	0.58
1:I:113:A:O2'	1:I:114:A:H5'	2.03	0.58
1:I:137:A:C4	1:I:138:A:C8	2.91	0.58
1:I:166:A:C2'	1:I:167:A:C5'	2.81	0.58
1:I:178:A:N3	1:I:179:A:C8	2.71	0.58
1:I:196:A:N3	1:I:197:A:C8	2.71	0.58
1:I:320:A:H2'	1:I:321:A:O5'	2.02	0.58
1:I:332:A:C2'	1:I:333:A:H5'	2.32	0.58
1:I:337:A:C2'	1:I:338:A:O5'	2.51	0.58
2:J:126:A:C5	2:J:127:A:N7	2.71	0.58
2:J:155:A:H2'	2:J:156:A:C8	2.37	0.58
2:J:171:A:C2	2:J:172:A:N7	2.58	0.58
2:J:218:A:C4	2:J:219:A:C8	2.91	0.58
2:J:225:A:C2	2:J:226:A:N7	2.71	0.58
3:K:90:A:H2'	3:K:91:A:C5'	2.31	0.58
3:K:101:A:C2'	3:K:102:A:C5'	2.81	0.58
3:K:249:A:H2'	3:K:250:A:O5'	2.02	0.58
4:L:526:U:H2'	4:L:527:U:H6	1.67	0.58
4:L:539:U:H2'	4:L:540:U:H6	1.68	0.58
4:L:544:U:N3	4:L:545:U:C4	2.72	0.58
4:L:639:U:H2'	4:L:640:U:H6	1.68	0.58
4:L:680:U:C2	4:L:681:U:C5	2.91	0.58
4:L:771:U:C2	4:L:772:U:C5	2.92	0.58
4:L:804:U:H2'	4:L:805:U:O4'	2.02	0.58
5:M:318:U:C3'	5:M:319:U:C5'	2.70	0.58
5:M:399:U:H2'	5:M:400:U:O5'	2.03	0.58
6:N:281:U:C2	6:N:282:U:C6	2.91	0.58
6:N:422:U:H2'	6:N:423:U:C6	2.36	0.58
6:N:518:U:HO3'	6:N:519:U:P	2.20	0.58
1:I:18:A:N3	1:I:19:A:C8	2.70	0.58
1:I:19:A:C2'	1:I:20:A:C5'	2.81	0.58
1:I:67:A:C5	1:I:68:A:C5	2.88	0.58
1:I:69:A:C2	1:I:70:A:C5	2.92	0.58
1:I:70:A:H2'	1:I:71:A:C8	2.37	0.58
1:I:79:A:C4	1:I:80:A:N7	2.68	0.58
1:I:101:A:H2'	1:I:102:A:N7	2.19	0.58
1:I:131:A:H2'	1:I:132:A:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:155:A:C2	1:I:156:A:C5	2.92	0.58
1:I:268:A:N1	1:I:269:A:C5	2.71	0.58
1:I:273:A:C2	1:I:274:A:C4	2.91	0.58
1:I:336:A:C2'	1:I:337:A:C5'	2.81	0.58
1:I:344:A:C2	1:I:345:A:C8	2.92	0.58
1:I:401:A:H2'	1:I:402:A:H8	1.68	0.58
2:J:120:A:C2	2:J:121:A:C4	2.90	0.58
2:J:225:A:N1	5:M:329:U:C4	2.72	0.58
3:K:155:A:O5'	3:K:156:A:OP2	2.20	0.58
3:K:164:A:C4	3:K:165:A:N7	2.70	0.58
4:L:486:U:C4	4:L:487:U:O4	2.57	0.58
4:L:526:U:H2'	4:L:527:U:O4'	2.03	0.58
4:L:541:U:C2'	4:L:542:U:H5'	2.32	0.58
4:L:547:U:N3	4:L:548:U:C5	2.70	0.58
4:L:638:U:O2'	4:L:639:U:C4'	2.49	0.58
4:L:792:U:C2	4:L:793:U:C5	2.91	0.58
5:M:324:U:C4	5:M:325:U:C4	2.91	0.58
5:M:444:U:C2	5:M:445:U:H5	2.12	0.58
5:M:451:U:N3	5:M:452:U:O4	2.34	0.58
5:M:505:U:C2	5:M:506:U:C6	2.91	0.58
5:M:511:U:C4	5:M:512:U:C4	2.91	0.58
6:N:395:U:H2'	6:N:396:U:H6	1.68	0.58
6:N:396:U:C2	6:N:397:U:C5	2.91	0.58
6:N:417:U:O2'	6:N:418:U:O4'	2.21	0.58
1:I:63:A:H61	1:I:64:A:N6	2.00	0.58
1:I:103:A:C2'	1:I:104:A:O5'	2.51	0.58
1:I:174:A:C2	1:I:175:A:N9	2.71	0.58
1:I:222:A:N1	1:I:223:A:C5	2.72	0.58
1:I:228:A:C6	1:I:229:A:N6	2.71	0.58
1:I:231:A:C6	1:I:232:A:C6	2.91	0.58
1:I:232:A:N1	1:I:233:A:C5	2.72	0.58
1:I:237:A:C2	1:I:238:A:C5	2.91	0.58
1:I:255:A:H2'	1:I:256:A:O5'	2.03	0.58
1:I:262:A:N3	1:I:263:A:C8	2.71	0.58
1:I:295:A:N3	1:I:296:A:C8	2.72	0.58
1:I:324:A:C2	1:I:325:A:C4	2.92	0.58
1:I:388:A:C2'	1:I:389:A:C5'	2.82	0.58
2:J:103:A:N3	2:J:104:A:C8	2.71	0.58
2:J:143:A:N1	2:J:144:A:C5	2.70	0.58
2:J:160:A:H2'	2:J:161:A:C4'	2.30	0.58
3:K:31:A:C6	3:K:32:A:C6	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:103:A:O2'	3:K:104:A:C5'	2.41	0.58
3:K:131:A:C4	3:K:132:A:N7	2.71	0.58
3:K:210:A:H2'	3:K:211:A:H8	1.67	0.58
3:K:216:A:H2'	3:K:217:A:C8	2.38	0.58
3:K:217:A:H2'	3:K:218:A:H8	1.68	0.58
4:L:552:U:N3	4:L:553:U:C5	2.71	0.58
4:L:574:U:N3	4:L:575:U:O4	2.30	0.58
4:L:584:U:H2'	4:L:585:U:C6	2.32	0.58
4:L:712:U:C4	4:L:713:U:C4	2.92	0.58
4:L:761:U:H2'	4:L:762:U:C6	2.39	0.58
5:M:295:U:H2'	5:M:296:U:O4'	2.04	0.58
5:M:317:U:N3	5:M:318:U:C5	2.71	0.58
5:M:330:U:O2'	5:M:331:U:C5'	2.49	0.58
5:M:433:U:H2'	5:M:434:U:C6	2.38	0.58
5:M:453:U:C4	5:M:454:U:C5	2.91	0.58
5:M:462:U:N3	5:M:463:U:C5	2.72	0.58
5:M:520:U:H2'	5:M:521:U:C5'	2.33	0.58
5:M:534:U:O2	5:M:535:U:C6	2.56	0.58
6:N:469:U:N3	6:N:470:U:C5	2.71	0.58
1:I:44:A:C2	1:I:45:A:C4	2.92	0.58
1:I:54:A:N1	1:I:55:A:C5	2.70	0.58
1:I:77:A:C2'	1:I:78:A:H5'	2.34	0.58
1:I:88:A:C2'	1:I:89:A:C5'	2.80	0.58
1:I:322:A:H2'	1:I:323:A:O4'	2.02	0.58
2:J:12:A:C4	2:J:13:A:C8	2.91	0.58
2:J:241:A:H3'	2:J:242:A:P	2.44	0.58
3:K:118:A:N3	3:K:119:A:N9	2.52	0.58
3:K:133:A:C2'	3:K:134:A:C5'	2.81	0.58
4:L:545:U:H2'	4:L:546:U:H6	1.69	0.58
4:L:546:U:C2	4:L:547:U:C6	2.91	0.58
4:L:584:U:H2'	4:L:585:U:O5'	2.02	0.58
4:L:592:U:N3	4:L:593:U:C5	2.72	0.58
4:L:661:U:C2'	4:L:662:U:O5'	2.51	0.58
4:L:706:U:C5	4:L:707:U:H5	2.22	0.58
4:L:734:U:C2'	4:L:735:U:O4'	2.52	0.58
4:L:736:U:C2'	4:L:737:U:O5'	2.51	0.58
4:L:737:U:C2	4:L:738:U:C5	2.91	0.58
4:L:809:U:C2	4:L:810:U:C5	2.91	0.58
5:M:429:U:C2'	5:M:430:U:H5'	2.33	0.58
5:M:447:U:N3	5:M:448:U:C5	2.71	0.58
5:M:491:U:C2'	5:M:492:U:O5'	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:448:U:N3	6:N:449:U:C5	2.71	0.58
6:N:485:U:H2'	6:N:486:U:H6	1.67	0.58
1:I:53:A:C2	1:I:54:A:N7	2.71	0.58
1:I:53:A:H2'	1:I:54:A:O5'	2.04	0.58
1:I:64:A:N3	1:I:65:A:C8	2.71	0.58
1:I:65:A:C2	1:I:66:A:C1'	2.86	0.58
1:I:183:A:C2	1:I:184:A:C1'	2.86	0.58
1:I:205:A:O2'	1:I:206:A:P	2.61	0.58
1:I:259:A:N1	1:I:260:A:C5	2.72	0.58
1:I:340:A:N3	1:I:341:A:N7	2.51	0.58
2:J:47:A:N6	5:M:507:U:O4	2.36	0.58
2:J:89:A:C2	5:M:465:U:C2	2.90	0.58
2:J:92:A:C2	2:J:93:A:C4	2.87	0.58
2:J:107:A:N3	2:J:108:A:C8	2.71	0.58
2:J:142:A:C2	2:J:143:A:C5	2.90	0.58
2:J:161:A:N3	2:J:162:A:C8	2.71	0.58
3:K:130:A:C2'	3:K:131:A:O5'	2.52	0.58
3:K:137:A:C2	3:K:138:A:C4	2.92	0.58
3:K:155:A:N1	3:K:156:A:C5	2.72	0.58
3:K:173:A:C2'	3:K:174:A:C5'	2.82	0.58
4:L:484:U:H2'	4:L:485:U:H6	1.68	0.58
4:L:523:U:C2	4:L:524:U:C5	2.91	0.58
4:L:617:U:H2'	4:L:618:U:H6	1.67	0.58
4:L:641:U:O2	4:L:642:U:C1'	2.51	0.58
4:L:644:U:O2	4:L:645:U:O4'	2.21	0.58
4:L:693:U:C4	4:L:694:U:C5	2.91	0.58
5:M:343:U:O2'	5:M:344:U:H5'	2.04	0.58
5:M:377:U:N3	5:M:378:U:C5	2.72	0.58
5:M:533:U:H2'	5:M:534:U:H6	1.67	0.58
6:N:441:U:H2'	6:N:442:U:O5'	2.04	0.58
1:I:113:A:C6	1:I:114:A:C5	2.92	0.58
1:I:134:A:H2'	1:I:135:A:H8	1.68	0.58
1:I:157:A:H2'	1:I:158:A:H8	1.68	0.58
1:I:232:A:C5	1:I:233:A:C8	2.92	0.58
1:I:247:A:C6	1:I:248:A:N6	2.72	0.58
1:I:359:A:C5	1:I:360:A:N7	2.71	0.58
2:J:5:A:C2	2:J:6:A:C5	2.92	0.58
2:J:13:A:C4	2:J:14:A:C8	2.92	0.58
2:J:27:A:C4	2:J:28:A:C8	2.92	0.58
2:J:67:A:N3	2:J:68:A:C8	2.71	0.58
2:J:206:A:C2	2:J:207:A:C8	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:218:A:H2'	2:J:219:A:O5'	2.04	0.58
2:J:224:A:C2'	2:J:225:A:C5'	2.82	0.58
3:K:80:A:C2	3:K:81:A:C4	2.91	0.58
3:K:138:A:C4	3:K:139:A:N7	2.71	0.58
3:K:170:A:C2'	3:K:171:A:C5'	2.81	0.58
3:K:253:A:N6	6:N:279:U:O4	2.37	0.58
4:L:497:U:N3	4:L:498:U:C5	2.71	0.58
4:L:512:U:C2	4:L:513:U:C5	2.92	0.58
4:L:514:U:C2	4:L:515:U:C5	2.92	0.58
4:L:543:U:N3	4:L:544:U:C5	2.72	0.58
4:L:594:U:C2'	4:L:595:U:O5'	2.52	0.58
4:L:650:U:C2	4:L:651:U:C5	2.92	0.58
4:L:674:U:H2'	4:L:675:U:O5'	2.02	0.58
4:L:698:U:O2'	4:L:699:U:C4'	2.51	0.58
4:L:717:U:C4	4:L:718:U:C4	2.82	0.58
4:L:810:U:HO2'	4:L:811:U:C4'	2.17	0.58
5:M:345:U:H2'	5:M:346:U:C6	2.37	0.58
5:M:395:U:C2'	5:M:396:U:O5'	2.51	0.58
5:M:406:U:C4	5:M:407:U:C5	2.92	0.58
5:M:432:U:C2'	5:M:433:U:O5'	2.52	0.58
5:M:486:U:C2'	5:M:487:U:O5'	2.48	0.58
6:N:338:U:C4	6:N:339:U:C4	2.91	0.58
6:N:378:U:N3	6:N:379:U:C5	2.72	0.58
6:N:403:U:C2	6:N:404:U:C6	2.91	0.58
6:N:426:U:O2'	6:N:427:U:O4'	2.20	0.58
1:I:1:A:N6	1:I:2:A:N6	2.51	0.58
1:I:31:A:C6	1:I:32:A:N6	2.71	0.58
1:I:49:A:C2	1:I:50:A:C5	2.92	0.58
1:I:70:A:H2'	1:I:71:A:H8	1.69	0.58
1:I:79:A:HO2'	1:I:80:A:H5'	1.65	0.58
1:I:261:A:C2	1:I:262:A:C5	2.91	0.58
1:I:282:A:C4	1:I:283:A:N7	2.72	0.58
1:I:303:A:H2'	1:I:304:A:O5'	2.04	0.58
1:I:353:A:C2	1:I:354:A:N9	2.72	0.58
1:I:365:A:C2	1:I:366:A:C5	2.92	0.58
2:J:67:A:H2'	2:J:68:A:C5'	2.33	0.58
2:J:153:A:C2	2:J:154:A:N9	2.72	0.58
2:J:158:A:N6	2:J:159:A:N6	2.51	0.58
2:J:202:A:N1	2:J:203:A:C5	2.72	0.58
3:K:80:A:C2'	3:K:81:A:C5'	2.81	0.58
3:K:89:A:C4	3:K:90:A:C8	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:93:A:C2'	3:K:94:A:H5'	2.33	0.58
3:K:94:A:C4	3:K:95:A:C8	2.91	0.58
3:K:99:A:C2'	3:K:100:A:O4'	2.52	0.58
3:K:102:A:O2'	3:K:103:A:H5'	2.04	0.58
4:L:489:U:N3	4:L:490:U:C5	2.72	0.58
4:L:533:U:C2	4:L:534:U:C6	2.92	0.58
4:L:543:U:N3	4:L:544:U:O4	2.36	0.58
4:L:553:U:O2	4:L:554:U:N1	2.36	0.58
4:L:646:U:C2'	4:L:647:U:C5'	2.81	0.58
5:M:287:U:O2	5:M:288:U:C6	2.57	0.58
5:M:320:U:C2	5:M:321:U:C5	2.91	0.58
5:M:420:U:C2'	5:M:421:U:O4'	2.51	0.58
5:M:455:U:H2'	5:M:456:U:H6	1.67	0.58
5:M:484:U:H2'	5:M:485:U:C6	2.39	0.58
6:N:338:U:C2	6:N:339:U:C4	2.92	0.58
6:N:492:U:HO2'	6:N:493:U:H5'	1.62	0.58
1:I:9:A:HO2'	1:I:10:A:H5'	1.66	0.58
1:I:21:A:C2'	1:I:22:A:C8	2.77	0.58
1:I:45:A:C2	1:I:46:A:N7	2.72	0.58
1:I:102:A:C5	1:I:103:A:N7	2.72	0.58
1:I:105:A:H2'	1:I:106:A:H8	1.68	0.58
1:I:131:A:N1	1:I:132:A:C6	2.72	0.58
1:I:180:A:C2	1:I:181:A:C5	2.90	0.58
1:I:226:A:C2	1:I:227:A:C4	2.92	0.58
1:I:242:A:C2'	1:I:243:A:O4'	2.51	0.58
1:I:254:A:H2'	1:I:255:A:O4'	2.04	0.58
1:I:314:A:C2'	1:I:315:A:C5'	2.81	0.58
1:I:323:A:C2	1:I:324:A:H1'	2.38	0.58
2:J:71:A:C6	2:J:72:A:C5	2.91	0.58
2:J:182:A:H62	2:J:183:A:H62	1.48	0.58
2:J:211:A:H2'	2:J:212:A:O5'	2.04	0.58
2:J:215:A:C2	2:J:216:A:C4	2.92	0.58
2:J:224:A:C2	2:J:225:A:N9	2.72	0.58
2:J:230:A:C2'	2:J:231:A:O4'	2.51	0.58
3:K:111:A:C2	3:K:112:A:C5	2.92	0.58
3:K:135:A:N3	3:K:136:A:N7	2.52	0.58
3:K:191:A:C2'	3:K:192:A:H5'	2.33	0.58
4:L:464:U:H2'	4:L:465:U:H6	1.68	0.58
4:L:531:U:C2	4:L:532:U:C6	2.92	0.58
4:L:565:U:H2'	4:L:566:U:H6	1.68	0.58
4:L:592:U:C2	4:L:593:U:C6	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:650:U:O2	4:L:651:U:C6	2.57	0.58
4:L:656:U:C2	4:L:657:U:C5	2.92	0.58
4:L:758:U:C2'	4:L:759:U:O4'	2.47	0.58
4:L:809:U:H2'	4:L:810:U:H6	1.68	0.58
5:M:396:U:C2'	5:M:397:U:O5'	2.52	0.58
5:M:460:U:C5	5:M:461:U:C5	2.92	0.58
5:M:498:U:C2'	5:M:499:U:H6	2.17	0.58
6:N:391:U:C2	6:N:392:U:C5	2.92	0.58
1:I:15:A:C2'	1:I:16:A:O4'	2.47	0.57
1:I:74:A:N6	1:I:75:A:C6	2.72	0.57
1:I:95:A:H2'	1:I:96:A:C8	2.39	0.57
1:I:326:A:O2'	1:I:327:A:C5'	2.42	0.57
1:I:329:A:O2'	1:I:330:A:H5'	2.04	0.57
1:I:345:A:C2	1:I:346:A:C8	2.92	0.57
1:I:364:A:C2	1:I:365:A:C5	2.92	0.57
2:J:38:A:C2	2:J:39:A:C5	2.92	0.57
2:J:86:A:N3	2:J:87:A:N7	2.51	0.57
2:J:138:A:C6	2:J:139:A:N6	2.72	0.57
3:K:43:A:C6	3:K:44:A:C6	2.92	0.57
3:K:79:A:H2'	3:K:80:A:C8	2.39	0.57
3:K:127:A:N3	3:K:128:A:C8	2.72	0.57
3:K:137:A:N3	3:K:138:A:C8	2.72	0.57
3:K:258:A:N6	3:K:259:A:N6	2.52	0.57
4:L:436:U:C2'	4:L:437:U:H6	2.04	0.57
4:L:584:U:C2'	4:L:585:U:C5'	2.82	0.57
4:L:670:U:H2'	4:L:671:U:C6	2.39	0.57
4:L:703:U:N3	4:L:704:U:C5	2.72	0.57
4:L:763:U:N3	4:L:764:U:C4	2.71	0.57
4:L:813:U:C4	4:L:814:U:C4	2.92	0.57
5:M:395:U:C2	5:M:396:U:C6	2.92	0.57
5:M:526:U:H2'	5:M:527:U:O4'	2.03	0.57
6:N:408:U:H2'	6:N:409:U:C6	2.36	0.57
6:N:425:U:C2	6:N:426:U:C4	2.91	0.57
6:N:448:U:H2'	6:N:449:U:C6	2.38	0.57
6:N:527:U:C2	6:N:528:U:C5	2.92	0.57
1:I:76:A:C4	1:I:77:A:C8	2.92	0.57
1:I:113:A:C2	1:I:114:A:C4	2.91	0.57
1:I:143:A:N1	1:I:144:A:N6	2.52	0.57
1:I:152:A:C5	1:I:153:A:N7	2.71	0.57
1:I:159:A:C2	1:I:160:A:C5	2.92	0.57
1:I:255:A:C2'	1:I:256:A:O5'	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:323:A:H2'	1:I:324:A:C4'	2.30	0.57
1:I:324:A:C2	1:I:325:A:N7	2.72	0.57
1:I:335:A:C4	1:I:336:A:N7	2.72	0.57
2:J:88:A:H2'	2:J:89:A:C5'	2.24	0.57
2:J:89:A:O2'	2:J:90:A:O5'	2.23	0.57
2:J:99:A:O2'	2:J:100:A:C5'	2.53	0.57
2:J:217:A:N1	2:J:218:A:C6	2.72	0.57
2:J:219:A:C2	2:J:220:A:C5	2.92	0.57
3:K:78:A:C2'	3:K:79:A:C5'	2.82	0.57
3:K:128:A:C5	3:K:129:A:N7	2.72	0.57
3:K:162:A:O2'	3:K:163:A:C5'	2.45	0.57
3:K:242:A:C3'	3:K:243:A:P	2.90	0.57
4:L:487:U:H2'	4:L:488:U:C4'	2.34	0.57
4:L:578:U:H2'	4:L:579:U:H6	1.68	0.57
4:L:598:U:O2	4:L:599:U:C6	2.57	0.57
4:L:691:U:O2	4:L:692:U:C6	2.57	0.57
4:L:794:U:C2	4:L:795:U:C6	2.93	0.57
5:M:348:U:C2	5:M:349:U:C4	2.79	0.57
5:M:361:U:O2	5:M:362:U:C5	2.57	0.57
5:M:421:U:N3	5:M:422:U:C4	2.72	0.57
5:M:457:U:C2	5:M:458:U:C5	2.92	0.57
5:M:463:U:H2'	5:M:464:U:H6	1.69	0.57
5:M:484:U:N3	5:M:485:U:C4	2.73	0.57
5:M:508:U:C2	5:M:509:U:C5	2.92	0.57
6:N:335:U:H2'	6:N:336:U:C6	2.38	0.57
6:N:360:U:HO2'	6:N:361:U:H5'	1.68	0.57
6:N:385:U:C2	6:N:386:U:C5	2.92	0.57
6:N:401:U:H2'	6:N:402:U:C6	2.39	0.57
6:N:462:U:H2'	6:N:463:U:C5'	2.34	0.57
6:N:489:U:C2	6:N:490:U:C6	2.90	0.57
1:I:18:A:C4	1:I:19:A:N7	2.72	0.57
1:I:49:A:C2	1:I:50:A:N9	2.72	0.57
1:I:95:A:N6	1:I:96:A:H62	1.88	0.57
1:I:143:A:N3	1:I:144:A:C5	2.71	0.57
1:I:184:A:C6	1:I:185:A:C5	2.92	0.57
1:I:226:A:C2	1:I:227:A:N7	2.73	0.57
1:I:229:A:C4	1:I:230:A:C8	2.93	0.57
1:I:260:A:N1	1:I:261:A:C5	2.72	0.57
2:J:41:A:C2	2:J:42:A:C5	2.93	0.57
2:J:79:A:C2	2:J:80:A:C4	2.91	0.57
2:J:97:A:H2'	2:J:98:A:H8	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:99:A:C2'	2:J:100:A:H8	2.07	0.57
2:J:126:A:C4	2:J:127:A:C8	2.91	0.57
2:J:131:A:H2'	2:J:132:A:C8	2.39	0.57
2:J:221:A:C2'	2:J:222:A:O5'	2.52	0.57
3:K:42:A:H2'	3:K:43:A:O4'	2.04	0.57
3:K:82:A:H2'	3:K:83:A:H8	1.68	0.57
3:K:104:A:C2'	3:K:105:A:O4'	2.52	0.57
3:K:110:A:H2'	3:K:111:A:C4'	2.34	0.57
3:K:137:A:HO2'	3:K:138:A:H5'	1.66	0.57
3:K:139:A:C2	3:K:140:A:C8	2.92	0.57
4:L:463:U:H2'	4:L:464:U:C6	2.38	0.57
4:L:501:U:O2'	4:L:502:U:O5'	2.22	0.57
4:L:541:U:C2'	4:L:542:U:C5'	2.82	0.57
4:L:552:U:H2'	4:L:553:U:H6	1.65	0.57
4:L:562:U:O2	4:L:563:U:C6	2.58	0.57
4:L:576:U:H2'	4:L:577:U:O4'	2.03	0.57
4:L:649:U:C4	4:L:650:U:C4	2.92	0.57
4:L:751:U:C3'	4:L:752:U:H5'	2.11	0.57
4:L:776:U:C2	4:L:777:U:C5	2.92	0.57
5:M:306:U:H2'	5:M:307:U:H6	1.69	0.57
5:M:315:U:H2'	5:M:316:U:H6	1.69	0.57
5:M:326:U:C2	5:M:327:U:C5	2.92	0.57
5:M:433:U:C6	5:M:434:U:H5	2.22	0.57
5:M:460:U:O4	5:M:461:U:O4	2.22	0.57
6:N:358:U:N3	6:N:359:U:C5	2.73	0.57
6:N:447:U:H2'	6:N:448:U:H6	1.68	0.57
1:I:19:A:C5	1:I:20:A:N7	2.72	0.57
1:I:55:A:C4	1:I:56:A:C8	2.92	0.57
1:I:70:A:O2'	1:I:71:A:C4'	2.52	0.57
1:I:106:A:N1	1:I:107:A:C5	2.72	0.57
1:I:190:A:C2	1:I:191:A:C5	2.92	0.57
1:I:205:A:C2	1:I:206:A:C8	2.92	0.57
1:I:261:A:O2'	1:I:262:A:O4'	2.23	0.57
2:J:34:A:N1	2:J:35:A:C5	2.72	0.57
2:J:38:A:O2'	2:J:39:A:C5'	2.45	0.57
2:J:68:A:N6	2:J:69:A:H62	2.02	0.57
2:J:86:A:O2'	2:J:87:A:P	2.62	0.57
2:J:93:A:C5	2:J:94:A:N7	2.72	0.57
2:J:104:A:C2'	2:J:105:A:H5'	2.34	0.57
2:J:170:A:C2	2:J:171:A:C8	2.92	0.57
2:J:192:A:C4	2:J:193:A:C8	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:248:A:H2'	2:J:249:A:H8	1.69	0.57
2:J:249:A:C2	2:J:250:A:C4	2.91	0.57
2:J:253:A:C4	2:J:254:A:C8	2.93	0.57
3:K:58:A:H2'	3:K:59:A:H8	1.68	0.57
3:K:106:A:O2'	3:K:107:A:H5'	2.04	0.57
4:L:472:U:H2'	4:L:473:U:C5	2.39	0.57
4:L:501:U:C2	4:L:502:U:C5	2.92	0.57
4:L:546:U:C2'	4:L:547:U:H6	2.04	0.57
4:L:556:U:C2	4:L:557:U:C5	2.92	0.57
4:L:559:U:C4	4:L:560:U:O4	2.58	0.57
4:L:613:U:O2'	4:L:614:U:C5'	2.43	0.57
4:L:669:U:C2	4:L:670:U:C6	2.92	0.57
4:L:673:U:C2'	4:L:674:U:O5'	2.49	0.57
4:L:718:U:O2'	4:L:719:U:C4'	2.50	0.57
4:L:756:U:O2	4:L:757:U:C6	2.57	0.57
4:L:771:U:C2'	4:L:772:U:C5'	2.83	0.57
4:L:820:U:N3	4:L:821:U:C4	2.72	0.57
5:M:393:U:C4	5:M:394:U:C4	2.93	0.57
5:M:393:U:C2'	5:M:394:U:H6	2.09	0.57
5:M:397:U:H2'	5:M:398:U:O4'	2.04	0.57
5:M:438:U:H2'	5:M:439:U:C5'	2.34	0.57
5:M:527:U:C4	5:M:528:U:C5	2.93	0.57
6:N:450:U:C2'	6:N:451:U:H6	2.15	0.57
1:I:71:A:H2'	1:I:72:A:C5'	2.35	0.57
1:I:95:A:HO2'	1:I:96:A:P	2.28	0.57
1:I:110:A:O2'	1:I:111:A:H5'	2.05	0.57
1:I:116:A:H2'	1:I:117:A:O5'	2.04	0.57
1:I:178:A:C2'	1:I:179:A:O5'	2.50	0.57
1:I:184:A:C4	1:I:185:A:N7	2.72	0.57
1:I:184:A:C6	1:I:185:A:N7	2.73	0.57
1:I:266:A:C2	1:I:267:A:H1'	2.38	0.57
1:I:310:A:H2'	1:I:311:A:C5'	2.34	0.57
1:I:352:A:C2	1:I:353:A:C4	2.93	0.57
2:J:17:A:C2'	2:J:18:A:C5'	2.83	0.57
2:J:66:A:C2	2:J:67:A:C4	2.92	0.57
2:J:105:A:C5	2:J:106:A:N7	2.72	0.57
2:J:133:A:H2'	2:J:134:A:O5'	2.05	0.57
2:J:187:A:C2'	2:J:188:A:H5'	2.34	0.57
2:J:192:A:C2'	2:J:193:A:O5'	2.49	0.57
2:J:223:A:C2	2:J:224:A:N9	2.72	0.57
3:K:80:A:C2'	3:K:81:A:H5'	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:121:A:N1	3:K:122:A:C5	2.71	0.57
3:K:164:A:N6	3:K:165:A:C6	2.72	0.57
3:K:250:A:N3	3:K:251:A:C8	2.73	0.57
4:L:450:U:C2'	4:L:451:U:H5'	2.35	0.57
4:L:580:U:H2'	4:L:581:U:O5'	2.04	0.57
4:L:591:U:C2	4:L:592:U:C5	2.91	0.57
4:L:604:U:H2'	4:L:605:U:O5'	2.04	0.57
4:L:793:U:H2'	4:L:794:U:H6	1.69	0.57
5:M:361:U:O2'	5:M:362:U:C5'	2.52	0.57
5:M:464:U:C2	5:M:465:U:C5	2.92	0.57
5:M:479:U:C2	5:M:480:U:C5	2.92	0.57
5:M:513:U:C2	5:M:514:U:C5	2.93	0.57
6:N:339:U:C2'	6:N:340:U:C5'	2.83	0.57
6:N:411:U:C2	6:N:412:U:C6	2.92	0.57
6:N:444:U:O2'	6:N:445:U:H5'	2.04	0.57
6:N:466:U:H2'	6:N:467:U:C6	2.37	0.57
1:I:14:A:N1	1:I:15:A:C5	2.73	0.57
1:I:74:A:N1	1:I:75:A:C4	2.72	0.57
1:I:107:A:C5'	1:I:108:A:OP2	2.52	0.57
1:I:128:A:C2'	1:I:129:A:C5'	2.81	0.57
1:I:223:A:H2'	1:I:224:A:C8	2.40	0.57
2:J:56:A:C2	2:J:57:A:C1'	2.87	0.57
2:J:69:A:C2	2:J:70:A:N9	2.72	0.57
2:J:132:A:C2	2:J:133:A:C4	2.92	0.57
3:K:3:A:H2'	3:K:4:A:H8	1.69	0.57
3:K:75:A:H3'	3:K:76:A:P	2.44	0.57
3:K:83:A:C2	3:K:84:A:C5	2.93	0.57
3:K:107:A:C2'	3:K:108:A:O5'	2.51	0.57
3:K:147:A:O2'	3:K:148:A:O5'	2.22	0.57
3:K:173:A:H2'	3:K:174:A:C5'	2.35	0.57
4:L:419:U:C4	4:L:420:U:O4	2.57	0.57
4:L:419:U:N3	4:L:420:U:O4	2.37	0.57
4:L:483:U:C2	4:L:484:U:C5	2.92	0.57
4:L:485:U:C2	4:L:486:U:C5	2.92	0.57
4:L:541:U:N3	4:L:542:U:C5	2.72	0.57
4:L:599:U:C4	4:L:600:U:C5	2.92	0.57
4:L:749:U:H2'	4:L:750:U:H6	1.68	0.57
4:L:750:U:C2'	4:L:751:U:H6	2.16	0.57
4:L:774:U:N3	4:L:775:U:C5	2.73	0.57
4:L:784:U:H2'	4:L:785:U:H6	1.68	0.57
5:M:292:U:H2'	5:M:293:U:H6	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:315:U:C2	5:M:316:U:C6	2.92	0.57
5:M:393:U:N3	5:M:394:U:C5	2.73	0.57
5:M:447:U:N3	5:M:448:U:C4	2.72	0.57
5:M:453:U:C4	5:M:454:U:C4	2.92	0.57
5:M:547:U:N3	5:M:548:U:C5	2.73	0.57
6:N:406:U:C5	6:N:407:U:C5	2.92	0.57
6:N:412:U:H2'	6:N:413:U:H6	1.69	0.57
6:N:439:U:C4	6:N:440:U:C5	2.92	0.57
1:I:32:A:H2'	1:I:33:A:H8	1.69	0.57
1:I:107:A:C5	1:I:108:A:C5	2.93	0.57
1:I:178:A:H2'	1:I:179:A:O5'	2.05	0.57
1:I:273:A:O2'	1:I:274:A:C5'	2.37	0.57
1:I:322:A:C4	1:I:323:A:N7	2.72	0.57
1:I:329:A:C4	1:I:330:A:N7	2.72	0.57
2:J:32:A:N3	2:J:33:A:C8	2.72	0.57
2:J:265:A:H2'	2:J:266:A:O5'	2.04	0.57
3:K:4:A:O2'	3:K:5:A:H5'	2.03	0.57
3:K:98:A:O2'	3:K:99:A:H5'	2.04	0.57
3:K:104:A:N3	3:K:105:A:N9	2.52	0.57
3:K:111:A:O2'	3:K:112:A:H5'	2.04	0.57
3:K:115:A:C2'	3:K:116:A:H8	2.16	0.57
4:L:415:U:H2'	4:L:416:U:H6	1.70	0.57
4:L:563:U:O2'	4:L:564:U:H5'	2.04	0.57
4:L:585:U:O2'	4:L:586:U:C4'	2.53	0.57
4:L:602:U:C2'	4:L:603:U:H5'	2.34	0.57
4:L:672:U:C4	4:L:673:U:C4	2.93	0.57
5:M:381:U:C4	5:M:382:U:O4	2.57	0.57
5:M:444:U:N3	5:M:445:U:C5	2.72	0.57
5:M:515:U:C2	5:M:516:U:C6	2.93	0.57
5:M:525:U:N3	5:M:526:U:C5	2.73	0.57
6:N:485:U:C3'	6:N:486:U:O5'	2.50	0.57
6:N:492:U:C2	6:N:493:U:C6	2.93	0.57
6:N:512:U:H2'	6:N:513:U:C6	2.40	0.57
1:I:21:A:C2	1:I:22:A:C4	2.93	0.57
1:I:77:A:C5	1:I:78:A:N7	2.73	0.57
1:I:79:A:C2	1:I:80:A:C5	2.93	0.57
1:I:101:A:C2'	1:I:102:A:C8	2.81	0.57
1:I:264:A:N3	1:I:265:A:C8	2.73	0.57
1:I:338:A:C4	1:I:339:A:N7	2.73	0.57
2:J:48:A:C5	2:J:49:A:N7	2.73	0.57
2:J:80:A:C5	2:J:81:A:N7	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:166:A:O2'	2:J:167:A:P	2.61	0.57
2:J:183:A:N3	2:J:184:A:C1'	2.68	0.57
2:J:249:A:H2'	2:J:250:A:O5'	2.04	0.57
3:K:184:A:C3'	3:K:185:A:P	2.90	0.57
3:K:260:A:C3'	3:K:261:A:P	2.90	0.57
4:L:567:U:O2	4:L:568:U:C6	2.58	0.57
4:L:570:U:H2'	4:L:571:U:H6	1.70	0.57
4:L:588:U:N3	4:L:589:U:C5	2.73	0.57
4:L:627:U:C2'	4:L:628:U:H5'	2.34	0.57
4:L:690:U:H2'	4:L:691:U:H6	1.69	0.57
4:L:715:U:HO2'	4:L:716:U:C4'	2.17	0.57
4:L:739:U:C2	4:L:740:U:C5	2.93	0.57
5:M:322:U:C2'	5:M:323:U:O5'	2.51	0.57
5:M:393:U:C2'	5:M:394:U:C6	2.80	0.57
5:M:420:U:H2'	5:M:421:U:C5'	2.32	0.57
5:M:461:U:C2	5:M:462:U:C5	2.92	0.57
5:M:530:U:C2'	5:M:531:U:O4'	2.48	0.57
6:N:296:U:N3	6:N:297:U:C4	2.72	0.57
6:N:377:U:O2	6:N:378:U:C1'	2.53	0.57
1:I:79:A:C2	1:I:80:A:N9	2.73	0.57
1:I:82:A:N1	1:I:83:A:C4	2.72	0.57
1:I:169:A:C2	1:I:170:A:C8	2.93	0.57
1:I:257:A:C4	1:I:258:A:C8	2.93	0.57
2:J:14:A:N6	2:J:15:A:H62	2.03	0.57
2:J:103:A:C2'	2:J:104:A:O5'	2.53	0.57
2:J:133:A:C2	2:J:134:A:C8	2.93	0.57
2:J:228:A:C4	2:J:229:A:C8	2.93	0.57
2:J:233:A:C2	2:J:234:A:C4	2.93	0.57
2:J:237:A:O2'	2:J:238:A:H5'	2.05	0.57
2:J:247:A:C2	2:J:248:A:C4	2.92	0.57
3:K:106:A:C2	3:K:107:A:C5	2.92	0.57
4:L:517:U:N3	4:L:518:U:C5	2.73	0.57
4:L:781:U:O2	4:L:782:U:C6	2.58	0.57
5:M:331:U:C2	5:M:332:U:C6	2.92	0.57
5:M:461:U:C2'	5:M:462:U:C5'	2.83	0.57
5:M:531:U:C3'	5:M:532:U:C5'	2.73	0.57
6:N:416:U:C2	6:N:417:U:C6	2.93	0.57
6:N:426:U:N3	6:N:427:U:C5	2.73	0.57
6:N:430:U:C2'	6:N:431:U:O4'	2.52	0.57
6:N:469:U:N3	6:N:470:U:C4	2.73	0.57
1:I:14:A:C6	1:I:15:A:C5	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:21:A:C2	1:I:22:A:C5	2.93	0.57
1:I:133:A:N3	1:I:134:A:C1'	2.68	0.57
1:I:178:A:HO2'	1:I:179:A:H5'	1.63	0.57
1:I:189:A:H2'	1:I:190:A:O4'	2.05	0.57
1:I:224:A:H2'	1:I:225:A:C8	2.40	0.57
1:I:241:A:C4	1:I:242:A:C8	2.93	0.57
1:I:259:A:N3	1:I:260:A:C8	2.72	0.57
2:J:116:A:H2'	2:J:117:A:C8	2.40	0.57
2:J:222:A:H2'	2:J:223:A:C4'	2.33	0.57
3:K:81:A:H2'	3:K:82:A:C5'	2.35	0.57
3:K:109:A:C4	3:K:110:A:C8	2.93	0.57
3:K:114:A:C2	3:K:115:A:C8	2.93	0.57
3:K:115:A:C2'	3:K:116:A:C8	2.86	0.57
3:K:122:A:C2	3:K:123:A:C5	2.93	0.57
4:L:538:U:N3	4:L:539:U:C5	2.72	0.57
4:L:579:U:H2'	4:L:580:U:O5'	2.05	0.57
4:L:604:U:C2	4:L:605:U:C6	2.93	0.57
4:L:640:U:N3	4:L:641:U:C4	2.73	0.57
4:L:686:U:H2'	4:L:687:U:H6	1.70	0.57
4:L:800:U:H2'	4:L:801:U:C6	2.40	0.57
5:M:403:U:C2	5:M:404:U:C5	2.93	0.57
5:M:448:U:H2'	5:M:449:U:H6	1.69	0.57
5:M:543:U:O2'	5:M:544:U:H5'	2.05	0.57
6:N:276:U:H2'	6:N:277:U:H6	1.70	0.57
6:N:302:U:H2'	6:N:303:U:O4'	2.05	0.57
6:N:317:U:O2'	6:N:318:U:H5'	2.04	0.57
6:N:382:U:C2	6:N:383:U:C5	2.93	0.57
6:N:392:U:N3	6:N:393:U:C4	2.73	0.57
6:N:393:U:O2	6:N:394:U:C6	2.57	0.57
6:N:411:U:C2'	6:N:412:U:O5'	2.51	0.57
6:N:424:U:C4	6:N:425:U:C4	2.93	0.57
6:N:455:U:C2'	6:N:456:U:H5'	2.34	0.57
1:I:46:A:C2	1:I:47:A:C4	2.93	0.56
1:I:187:A:C2	1:I:188:A:C5	2.93	0.56
1:I:265:A:C6	1:I:266:A:N7	2.72	0.56
1:I:299:A:C2	1:I:300:A:C4	2.93	0.56
1:I:335:A:H2'	1:I:336:A:C8	2.40	0.56
1:I:338:A:C6	1:I:339:A:N6	2.73	0.56
1:I:393:A:H2'	1:I:394:A:C8	2.39	0.56
1:I:394:A:H2'	1:I:395:A:C8	2.40	0.56
2:J:12:A:C5	2:J:13:A:N7	2.72	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:47:A:C4	2:J:48:A:C8	2.93	0.56
2:J:55:A:C4	2:J:56:A:N7	2.73	0.56
2:J:85:A:O2'	2:J:86:A:H5'	2.04	0.56
2:J:90:A:C2	2:J:91:A:C4	2.92	0.56
2:J:107:A:C2'	2:J:108:A:O5'	2.51	0.56
2:J:166:A:C2	2:J:167:A:N9	2.73	0.56
2:J:182:A:H2'	2:J:183:A:O4'	2.04	0.56
2:J:186:A:C4	2:J:187:A:C8	2.93	0.56
2:J:215:A:C2	5:M:339:U:C2	2.93	0.56
2:J:229:A:C4	2:J:230:A:C8	2.93	0.56
2:J:237:A:C2	2:J:238:A:C4	2.93	0.56
3:K:88:A:C4	3:K:89:A:C8	2.92	0.56
3:K:181:A:N1	3:K:182:A:C5	2.73	0.56
3:K:182:A:O2'	3:K:183:A:H5'	2.05	0.56
4:L:421:U:HO2'	4:L:422:U:C4'	2.18	0.56
4:L:459:U:H2'	4:L:460:U:H6	1.69	0.56
4:L:462:U:N3	4:L:463:U:C4	2.73	0.56
4:L:492:U:N3	4:L:493:U:C5	2.73	0.56
4:L:515:U:C2	4:L:516:U:C5	2.93	0.56
4:L:578:U:H2'	4:L:579:U:C5'	2.35	0.56
4:L:619:U:O2'	4:L:620:U:H5'	2.04	0.56
4:L:637:U:C2'	4:L:638:U:H6	2.12	0.56
4:L:699:U:C2	4:L:700:U:C6	2.92	0.56
4:L:720:U:N3	4:L:721:U:C4	2.72	0.56
4:L:750:U:C2'	4:L:751:U:C6	2.83	0.56
4:L:821:U:H2'	4:L:822:U:H6	1.70	0.56
5:M:322:U:C2	5:M:323:U:C6	2.93	0.56
5:M:377:U:C2'	5:M:378:U:O4'	2.51	0.56
5:M:397:U:C2	5:M:398:U:C5	2.93	0.56
5:M:460:U:C2'	5:M:461:U:H6	2.13	0.56
5:M:482:U:C2	5:M:483:U:C6	2.92	0.56
5:M:490:U:C2	5:M:491:U:C5	2.93	0.56
5:M:508:U:H2'	5:M:509:U:O5'	2.05	0.56
5:M:510:U:C2'	5:M:511:U:C4'	2.83	0.56
6:N:311:U:O2'	6:N:312:U:C4'	2.53	0.56
6:N:333:U:C2'	6:N:334:U:C5'	2.82	0.56
6:N:349:U:O2'	6:N:350:U:P	2.63	0.56
6:N:366:U:H2'	6:N:367:U:H6	1.70	0.56
6:N:473:U:C6	6:N:474:U:C5	2.93	0.56
1:I:88:A:C2'	1:I:89:A:O5'	2.52	0.56
1:I:219:A:C2	1:I:220:A:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:5:A:C4	2:J:6:A:N7	2.73	0.56
2:J:98:A:N1	2:J:99:A:C6	2.73	0.56
2:J:103:A:C2	2:J:104:A:N9	2.72	0.56
2:J:159:A:H2'	2:J:160:A:O4'	2.05	0.56
2:J:253:A:C2	2:J:254:A:C5	2.93	0.56
3:K:104:A:C2	3:K:105:A:C8	2.94	0.56
3:K:146:A:O2'	3:K:147:A:O5'	2.23	0.56
3:K:155:A:C5	3:K:156:A:C5	2.88	0.56
3:K:254:A:C6	3:K:255:A:C5	2.93	0.56
3:K:259:A:C3'	3:K:260:A:P	2.91	0.56
4:L:420:U:N3	4:L:421:U:C4	2.74	0.56
4:L:550:U:HO2'	4:L:551:U:C5'	1.82	0.56
4:L:570:U:O2'	4:L:571:U:C5'	2.44	0.56
4:L:582:U:C2	4:L:583:U:C5	2.93	0.56
4:L:759:U:O2	4:L:760:U:C6	2.58	0.56
4:L:771:U:N3	4:L:772:U:C5	2.73	0.56
5:M:501:U:C2	5:M:502:U:C6	2.92	0.56
6:N:294:U:HO2'	6:N:295:U:H5'	1.67	0.56
6:N:313:U:N3	6:N:314:U:C4	2.73	0.56
6:N:332:U:C4	6:N:333:U:O4	2.58	0.56
6:N:396:U:C4	6:N:397:U:C5	2.94	0.56
6:N:480:U:C2'	6:N:481:U:H5'	2.36	0.56
6:N:502:U:H2'	6:N:503:U:H6	1.69	0.56
1:I:8:A:H61	1:I:9:A:N6	2.03	0.56
1:I:9:A:O2'	1:I:10:A:C5'	2.39	0.56
1:I:15:A:C5	1:I:16:A:N7	2.73	0.56
1:I:48:A:H2'	1:I:49:A:C5'	2.34	0.56
1:I:54:A:C2	1:I:55:A:C8	2.93	0.56
1:I:160:A:C2'	1:I:161:A:C5'	2.84	0.56
1:I:172:A:C2'	1:I:173:A:O5'	2.53	0.56
1:I:190:A:C4	1:I:191:A:C8	2.93	0.56
1:I:197:A:H2'	1:I:198:A:O5'	2.05	0.56
1:I:212:A:C2	1:I:213:A:C8	2.93	0.56
1:I:228:A:C6	1:I:229:A:C5	2.94	0.56
1:I:243:A:C2	4:L:583:U:C2	2.92	0.56
1:I:259:A:C6	1:I:260:A:N7	2.74	0.56
1:I:265:A:H61	1:I:266:A:N6	2.03	0.56
1:I:279:A:O2'	1:I:280:A:C4'	2.49	0.56
1:I:280:A:C2	1:I:281:A:C6	2.93	0.56
1:I:280:A:H2'	1:I:281:A:C8	2.40	0.56
1:I:285:A:C4	1:I:286:A:C8	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:292:A:C2'	1:I:293:A:H5'	2.36	0.56
1:I:307:A:C2	1:I:308:A:C5	2.93	0.56
1:I:323:A:H2'	1:I:324:A:O4'	2.06	0.56
1:I:352:A:C4	1:I:353:A:C8	2.94	0.56
2:J:35:A:O2'	2:J:36:A:H5'	2.05	0.56
2:J:39:A:H2'	2:J:40:A:H8	1.71	0.56
2:J:73:A:H2'	2:J:74:A:H8	1.71	0.56
2:J:83:A:N6	2:J:84:A:N6	2.53	0.56
2:J:104:A:C2	2:J:105:A:C4	2.93	0.56
2:J:108:A:C2	2:J:109:A:C8	2.93	0.56
2:J:119:A:H2'	2:J:120:A:H8	1.70	0.56
2:J:126:A:C6	2:J:127:A:N7	2.74	0.56
2:J:143:A:N3	2:J:144:A:O4'	2.38	0.56
2:J:192:A:H2'	2:J:193:A:C5'	2.36	0.56
2:J:229:A:C2	2:J:230:A:C5	2.93	0.56
3:K:5:A:C2'	3:K:6:A:C5'	2.82	0.56
3:K:43:A:H2'	3:K:44:A:H8	1.69	0.56
3:K:70:A:H2'	3:K:71:A:C8	2.40	0.56
3:K:83:A:N3	3:K:84:A:C8	2.73	0.56
3:K:97:A:O2'	3:K:98:A:C5'	2.41	0.56
3:K:107:A:H2'	3:K:108:A:O5'	2.04	0.56
3:K:132:A:C2'	3:K:133:A:O5'	2.53	0.56
3:K:136:A:C4	3:K:137:A:C8	2.93	0.56
3:K:171:A:N3	3:K:172:A:C8	2.73	0.56
3:K:178:A:O2'	3:K:179:A:H5'	2.05	0.56
3:K:182:A:H2'	3:K:183:A:C8	2.40	0.56
4:L:544:U:H2'	4:L:545:U:H6	1.69	0.56
4:L:548:U:C2'	4:L:549:U:H5'	2.35	0.56
4:L:586:U:C4	4:L:587:U:C5	2.93	0.56
4:L:590:U:C2	4:L:591:U:C5	2.94	0.56
4:L:612:U:H2'	4:L:613:U:C5'	2.36	0.56
4:L:669:U:C2'	4:L:670:U:C5'	2.84	0.56
4:L:701:U:H2'	4:L:702:U:C6	2.39	0.56
4:L:735:U:O2'	4:L:736:U:H5'	2.04	0.56
4:L:782:U:O2	4:L:783:U:C6	2.58	0.56
4:L:812:U:C2	4:L:813:U:C5	2.93	0.56
5:M:291:U:C2'	5:M:292:U:H5'	2.35	0.56
5:M:304:U:H2'	5:M:305:U:C6	2.39	0.56
5:M:305:U:C2	5:M:306:U:C6	2.94	0.56
5:M:326:U:C2	5:M:327:U:C6	2.92	0.56
5:M:331:U:H2'	5:M:332:U:H6	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:373:U:HO2'	5:M:374:U:H5'	1.67	0.56
5:M:386:U:C2	5:M:387:U:C6	2.83	0.56
5:M:391:U:O2	5:M:392:U:C6	2.58	0.56
5:M:397:U:O2'	5:M:398:U:H5'	2.05	0.56
5:M:406:U:C2	5:M:407:U:C5	2.93	0.56
5:M:423:U:H2'	5:M:424:U:C6	2.40	0.56
5:M:433:U:H2'	5:M:434:U:H6	1.69	0.56
5:M:456:U:H2'	5:M:457:U:C6	2.39	0.56
5:M:512:U:C4	5:M:513:U:C5	2.93	0.56
6:N:292:U:C2	6:N:293:U:C5	2.93	0.56
6:N:318:U:H2'	6:N:319:U:H6	1.68	0.56
6:N:327:U:C2'	6:N:328:U:C4'	2.83	0.56
6:N:403:U:C2'	6:N:404:U:C5'	2.83	0.56
6:N:417:U:H2'	6:N:418:U:C4'	2.35	0.56
6:N:473:U:C5	6:N:474:U:C5	2.93	0.56
6:N:482:U:H2'	6:N:483:U:H6	1.69	0.56
6:N:499:U:N3	6:N:500:U:O4	2.37	0.56
1:I:73:A:N1	1:I:74:A:C5	2.73	0.56
1:I:172:A:C2	1:I:173:A:N9	2.73	0.56
1:I:207:A:H2'	1:I:208:A:C5'	2.34	0.56
1:I:255:A:C4	1:I:256:A:C8	2.94	0.56
1:I:372:A:H2'	1:I:373:A:C5'	2.35	0.56
1:I:376:A:C2	1:I:377:A:C8	2.94	0.56
1:I:388:A:C2'	1:I:389:A:H5'	2.36	0.56
2:J:6:A:C2	2:J:7:A:C8	2.94	0.56
2:J:43:A:C6	2:J:44:A:C5	2.93	0.56
2:J:48:A:N1	2:J:49:A:C5	2.73	0.56
2:J:62:A:C4	2:J:63:A:C8	2.94	0.56
2:J:146:A:C2	2:J:147:A:C5	2.93	0.56
2:J:166:A:C4	2:J:167:A:N7	2.74	0.56
2:J:182:A:C5	2:J:183:A:C5	2.89	0.56
2:J:197:A:H2'	2:J:198:A:H8	1.71	0.56
2:J:205:A:C2	2:J:206:A:C5	2.93	0.56
2:J:257:A:H2'	2:J:258:A:O4'	2.06	0.56
3:K:15:A:O2'	3:K:16:A:H5'	2.05	0.56
3:K:77:A:HO2'	3:K:78:A:H5'	1.68	0.56
3:K:106:A:N6	3:K:107:A:N6	2.53	0.56
3:K:118:A:H2'	3:K:119:A:O4'	2.05	0.56
3:K:132:A:H2'	3:K:133:A:C5'	2.34	0.56
3:K:153:A:C4	3:K:154:A:C8	2.94	0.56
3:K:155:A:O5'	3:K:156:A:P	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:163:A:C5	3:K:164:A:N7	2.74	0.56
3:K:253:A:C2	3:K:254:A:C8	2.94	0.56
4:L:484:U:H2'	4:L:485:U:O5'	2.04	0.56
4:L:549:U:O2'	4:L:550:U:O4'	2.23	0.56
4:L:665:U:C2	4:L:666:U:C6	2.93	0.56
4:L:674:U:C2'	4:L:675:U:O5'	2.53	0.56
4:L:727:U:H2'	4:L:728:U:H6	1.69	0.56
4:L:740:U:N3	4:L:741:U:C5	2.74	0.56
4:L:766:U:C3'	4:L:767:U:H6	2.19	0.56
5:M:320:U:H2'	5:M:321:U:H6	1.70	0.56
5:M:324:U:C4	5:M:325:U:C5	2.94	0.56
5:M:420:U:C2	5:M:421:U:C6	2.94	0.56
5:M:443:U:C2	5:M:444:U:C5	2.94	0.56
5:M:474:U:C3'	5:M:475:U:OP2	2.53	0.56
5:M:524:U:C2	5:M:525:U:C6	2.93	0.56
6:N:487:U:N3	6:N:488:U:O4	2.39	0.56
1:I:24:A:H2'	1:I:25:A:H8	1.71	0.56
1:I:245:A:C2	1:I:246:A:C4	2.94	0.56
1:I:279:A:N3	1:I:280:A:C8	2.74	0.56
1:I:295:A:C2	1:I:296:A:C4	2.93	0.56
1:I:333:A:H2	1:I:334:A:C4	2.18	0.56
1:I:361:A:O2'	1:I:362:A:C4'	2.54	0.56
2:J:34:A:C2	2:J:35:A:N7	2.73	0.56
2:J:95:A:N3	2:J:96:A:C8	2.73	0.56
2:J:95:A:H2'	2:J:96:A:H8	1.70	0.56
2:J:108:A:C6	2:J:109:A:C5	2.94	0.56
2:J:119:A:C5	2:J:120:A:N7	2.73	0.56
2:J:129:A:H2'	2:J:130:A:C4'	2.35	0.56
2:J:149:A:O2'	2:J:150:A:H5'	2.06	0.56
2:J:162:A:N6	2:J:163:A:N6	2.54	0.56
2:J:183:A:N3	2:J:184:A:C8	2.73	0.56
2:J:198:A:C5	2:J:199:A:N7	2.73	0.56
2:J:204:A:N9	2:J:205:A:C8	2.73	0.56
2:J:228:A:C4	2:J:229:A:N7	2.73	0.56
3:K:73:A:C2'	3:K:74:A:C5'	2.83	0.56
3:K:121:A:N1	6:N:411:U:C4	2.73	0.56
4:L:754:U:N3	4:L:755:U:C5	2.74	0.56
4:L:755:U:O2	4:L:756:U:C6	2.59	0.56
4:L:791:U:HO2'	4:L:792:U:H5'	1.70	0.56
5:M:408:U:O2	5:M:409:U:C6	2.59	0.56
6:N:387:U:H2'	6:N:388:U:H6	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:491:U:O2'	6:N:492:U:H5'	2.05	0.56
6:N:501:U:H2'	6:N:502:U:C6	2.40	0.56
1:I:132:A:C2	1:I:133:A:N9	2.73	0.56
1:I:198:A:C2	1:I:199:A:C8	2.93	0.56
1:I:292:A:N3	1:I:293:A:C8	2.74	0.56
2:J:68:A:C4	2:J:69:A:C8	2.93	0.56
2:J:136:A:H2'	2:J:137:A:C8	2.30	0.56
2:J:206:A:C2'	2:J:207:A:O4'	2.53	0.56
2:J:234:A:C2	2:J:235:A:C4	2.93	0.56
3:K:5:A:O2'	3:K:6:A:C5'	2.53	0.56
3:K:95:A:C2'	3:K:96:A:O5'	2.53	0.56
4:L:524:U:O2'	4:L:525:U:C5'	2.37	0.56
4:L:532:U:N3	4:L:533:U:C5	2.73	0.56
4:L:564:U:HO2'	4:L:565:U:H5'	1.61	0.56
4:L:622:U:C2	4:L:623:U:C6	2.93	0.56
4:L:625:U:O2'	4:L:626:U:P	2.63	0.56
4:L:757:U:C6	4:L:758:U:H5	2.23	0.56
4:L:765:U:C2'	4:L:766:U:C4'	2.80	0.56
4:L:816:U:O4	4:L:817:U:O4	2.23	0.56
5:M:296:U:C3'	5:M:297:U:C5'	2.72	0.56
5:M:305:U:O2	5:M:306:U:C6	2.58	0.56
5:M:360:U:C2	5:M:361:U:C5	2.93	0.56
5:M:371:U:H2'	5:M:372:U:H6	1.71	0.56
5:M:404:U:N3	5:M:405:U:C5	2.74	0.56
5:M:477:U:C2'	5:M:478:U:H5'	2.35	0.56
5:M:507:U:C2	5:M:508:U:C6	2.93	0.56
6:N:295:U:C2	6:N:296:U:C5	2.93	0.56
6:N:312:U:C2'	6:N:313:U:O4'	2.53	0.56
6:N:339:U:H2'	6:N:340:U:O4'	2.05	0.56
6:N:476:U:H2'	6:N:477:U:O4'	2.06	0.56
6:N:477:U:H2'	6:N:478:U:H5'	1.87	0.56
1:I:53:A:C2	1:I:54:A:C4	2.94	0.56
1:I:53:A:N1	1:I:54:A:C5	2.74	0.56
1:I:57:A:C4	1:I:58:A:C8	2.94	0.56
1:I:223:A:C2	1:I:224:A:C5	2.94	0.56
1:I:362:A:C6	1:I:363:A:C6	2.93	0.56
1:I:403:A:C2'	1:I:404:A:C5'	2.83	0.56
2:J:45:A:O2'	2:J:46:A:H5'	2.05	0.56
2:J:79:A:C2	2:J:80:A:N9	2.73	0.56
2:J:97:A:N1	2:J:98:A:C6	2.74	0.56
2:J:107:A:H2'	2:J:108:A:C5'	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:129:A:C2	2:J:130:A:C4	2.93	0.56
2:J:153:A:N3	2:J:154:A:C8	2.74	0.56
2:J:166:A:N1	2:J:167:A:C5	2.73	0.56
2:J:173:A:C2'	2:J:174:A:C8	2.73	0.56
2:J:222:A:H2'	2:J:223:A:O4'	2.05	0.56
2:J:254:A:N3	2:J:255:A:C8	2.74	0.56
3:K:166:A:N1	3:K:167:A:C5	2.74	0.56
4:L:488:U:H2'	4:L:489:U:C5'	2.34	0.56
4:L:533:U:H2'	4:L:534:U:C5'	2.36	0.56
4:L:540:U:O2'	4:L:541:U:P	2.62	0.56
4:L:648:U:H2'	4:L:649:U:C6	2.40	0.56
4:L:662:U:C2	4:L:663:U:H5	2.20	0.56
4:L:671:U:C2'	4:L:672:U:H5'	2.34	0.56
4:L:718:U:O2	4:L:719:U:N1	2.39	0.56
4:L:736:U:C2	4:L:737:U:C6	2.93	0.56
4:L:754:U:O2'	4:L:755:U:C4'	2.54	0.56
5:M:389:U:O2'	5:M:390:U:H5'	2.05	0.56
5:M:410:U:C6	5:M:411:U:C5	2.94	0.56
5:M:436:U:C2'	5:M:437:U:C5'	2.84	0.56
5:M:488:U:C5	5:M:489:U:C5	2.93	0.56
5:M:508:U:N3	5:M:509:U:C5	2.74	0.56
6:N:379:U:H2'	6:N:380:U:H6	1.69	0.56
6:N:499:U:N3	6:N:500:U:C4	2.74	0.56
1:I:9:A:C2'	1:I:10:A:H5'	2.35	0.56
1:I:30:A:C2	1:I:31:A:C4	2.93	0.56
1:I:76:A:C5	1:I:77:A:N7	2.73	0.56
1:I:164:A:C2	1:I:165:A:C6	2.94	0.56
1:I:189:A:H2'	1:I:190:A:H8	1.71	0.56
1:I:246:A:C2'	1:I:247:A:C5'	2.83	0.56
1:I:252:A:H2'	1:I:253:A:H8	1.71	0.56
1:I:263:A:C2	1:I:264:A:C5	2.94	0.56
1:I:337:A:H2'	1:I:338:A:O5'	2.06	0.56
2:J:9:A:H2'	2:J:10:A:C8	2.40	0.56
2:J:43:A:C5	2:J:44:A:N7	2.74	0.56
2:J:47:A:N3	2:J:48:A:C1'	2.69	0.56
2:J:75:A:H2'	2:J:76:A:C5'	2.35	0.56
2:J:90:A:H2'	2:J:91:A:H8	1.71	0.56
2:J:97:A:O2'	2:J:98:A:C5'	2.54	0.56
2:J:146:A:H2'	2:J:147:A:C8	2.40	0.56
2:J:158:A:H2'	2:J:159:A:H8	1.70	0.56
2:J:216:A:H2	2:J:217:A:C5	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:235:A:N3	2:J:236:A:C8	2.74	0.56
3:K:82:A:C4	3:K:83:A:C8	2.94	0.56
3:K:84:A:C4	3:K:85:A:C8	2.94	0.56
3:K:120:A:N6	3:K:121:A:C5	2.74	0.56
3:K:129:A:C2'	3:K:130:A:H5'	2.35	0.56
4:L:557:U:H2'	4:L:558:U:C6	2.39	0.56
4:L:616:U:H2'	4:L:617:U:H6	1.71	0.56
4:L:638:U:N3	4:L:639:U:C6	2.73	0.56
4:L:643:U:H2'	4:L:644:U:H6	1.70	0.56
4:L:736:U:C2'	4:L:737:U:C5'	2.83	0.56
4:L:761:U:H2'	4:L:762:U:H6	1.70	0.56
5:M:349:U:H2'	5:M:350:U:C6	2.38	0.56
5:M:352:U:C2	5:M:353:U:C6	2.93	0.56
5:M:386:U:O2'	5:M:387:U:C5'	2.54	0.56
5:M:391:U:H2'	5:M:392:U:H6	1.70	0.56
5:M:421:U:H2'	5:M:422:U:H6	1.67	0.56
1:I:66:A:N6	1:I:67:A:H62	2.04	0.56
1:I:127:A:H2'	1:I:128:A:C5'	2.36	0.56
1:I:137:A:C6	1:I:138:A:C5	2.93	0.56
1:I:185:A:C2	1:I:186:A:C5	2.93	0.56
1:I:193:A:C2	1:I:194:A:C4	2.94	0.56
1:I:226:A:O2'	1:I:227:A:C5'	2.51	0.56
1:I:265:A:C6	1:I:266:A:N6	2.74	0.56
1:I:332:A:C4	1:I:333:A:C8	2.93	0.56
1:I:341:A:N3	1:I:342:A:C8	2.73	0.56
1:I:374:A:HO2'	1:I:375:A:H5'	1.67	0.56
1:I:375:A:O2'	1:I:376:A:C5'	2.54	0.56
2:J:66:A:C2'	2:J:67:A:O5'	2.54	0.56
2:J:87:A:C2	2:J:88:A:C8	2.93	0.56
2:J:147:A:HO2'	2:J:148:A:H5'	1.66	0.56
2:J:219:A:N1	2:J:220:A:C5	2.74	0.56
2:J:257:A:H2'	2:J:258:A:H8	1.70	0.56
3:K:60:A:C2'	3:K:61:A:H5'	2.36	0.56
3:K:71:A:N1	3:K:72:A:C6	2.74	0.56
3:K:89:A:C2	6:N:443:U:C2	2.94	0.56
3:K:173:A:H2'	3:K:174:A:O5'	2.06	0.56
4:L:449:U:C2	4:L:450:U:C6	2.94	0.56
4:L:459:U:C2'	4:L:460:U:O4'	2.52	0.56
4:L:557:U:C2'	4:L:558:U:C4'	2.83	0.56
4:L:561:U:C2'	4:L:562:U:C5'	2.82	0.56
4:L:594:U:H2'	4:L:595:U:C6	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:652:U:C2'	4:L:653:U:C5'	2.82	0.56
4:L:659:U:C4	4:L:660:U:O4	2.59	0.56
4:L:729:U:O4	4:L:730:U:O4	2.24	0.56
4:L:737:U:H2'	4:L:738:U:O5'	2.05	0.56
4:L:740:U:C4	4:L:741:U:C5	2.94	0.56
4:L:742:U:C2	4:L:743:U:C4	2.92	0.56
4:L:776:U:H2'	4:L:777:U:C6	2.37	0.56
4:L:785:U:C2	4:L:786:U:C5	2.93	0.56
5:M:534:U:O2	5:M:535:U:C5	2.58	0.56
6:N:292:U:C4	6:N:293:U:O4	2.59	0.56
6:N:376:U:N3	6:N:377:U:C5	2.73	0.56
6:N:448:U:H2'	6:N:449:U:O4'	2.06	0.56
6:N:476:U:N3	6:N:477:U:C5	2.73	0.56
1:I:181:A:C6	1:I:182:A:C6	2.93	0.56
1:I:187:A:N1	1:I:188:A:C6	2.74	0.56
1:I:225:A:C2	1:I:226:A:C5	2.94	0.56
1:I:315:A:H2'	1:I:316:A:H8	1.70	0.56
2:J:80:A:O2'	2:J:81:A:H5'	2.06	0.56
2:J:118:A:N3	2:J:119:A:N7	2.53	0.56
2:J:142:A:C6	2:J:143:A:C5	2.94	0.56
3:K:45:A:HO3'	3:K:46:A:P	2.25	0.56
3:K:70:A:H2'	3:K:71:A:H8	1.70	0.56
3:K:119:A:N3	3:K:120:A:N9	2.53	0.56
3:K:151:A:C2	3:K:152:A:C8	2.94	0.56
3:K:160:A:C4	3:K:161:A:C8	2.94	0.56
3:K:193:A:H2'	3:K:194:A:C8	2.40	0.56
4:L:483:U:C2'	4:L:484:U:C5'	2.83	0.56
4:L:499:U:C4	4:L:500:U:C5	2.93	0.56
4:L:557:U:C5	4:L:558:U:C5	2.95	0.56
4:L:590:U:C2'	4:L:591:U:C5'	2.82	0.56
4:L:615:U:C2'	4:L:616:U:H5'	2.36	0.56
4:L:673:U:C2	4:L:674:U:C6	2.93	0.56
4:L:697:U:H2'	4:L:698:U:C6	2.39	0.56
4:L:703:U:H2'	4:L:704:U:C6	2.41	0.56
4:L:708:U:C2'	4:L:709:U:C5'	2.84	0.56
4:L:750:U:O2'	4:L:751:U:O5'	2.24	0.56
4:L:777:U:C4	4:L:778:U:C4	2.94	0.56
5:M:371:U:H2'	5:M:372:U:O4'	2.05	0.56
5:M:515:U:H2'	5:M:516:U:C5'	2.36	0.56
5:M:520:U:H2'	5:M:521:U:O4'	2.06	0.56
6:N:352:U:C2'	6:N:353:U:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:368:U:H2'	6:N:369:U:O5'	2.06	0.56
6:N:383:U:C2	6:N:384:U:C6	2.94	0.56
6:N:407:U:C2'	6:N:408:U:H5'	2.36	0.56
6:N:481:U:O2'	6:N:482:U:C4'	2.51	0.56
1:I:12:A:C2	1:I:13:A:C8	2.95	0.55
1:I:27:A:C2'	1:I:28:A:H5'	2.36	0.55
1:I:65:A:N3	1:I:66:A:N9	2.52	0.55
1:I:161:A:H2'	1:I:162:A:C5'	2.34	0.55
1:I:163:A:N3	1:I:164:A:N9	2.54	0.55
1:I:202:A:N3	1:I:203:A:C8	2.74	0.55
1:I:220:A:C2	1:I:221:A:C8	2.94	0.55
1:I:228:A:H2'	1:I:229:A:O4'	2.06	0.55
1:I:322:A:C2'	1:I:323:A:C5'	2.84	0.55
1:I:358:A:H2'	1:I:359:A:H8	1.71	0.55
1:I:364:A:C2	1:I:365:A:C4	2.94	0.55
2:J:45:A:C6	2:J:46:A:N7	2.75	0.55
2:J:93:A:C2	2:J:94:A:C4	2.94	0.55
2:J:105:A:C4	2:J:106:A:N7	2.73	0.55
3:K:102:A:H2'	3:K:103:A:O5'	2.03	0.55
3:K:152:A:H62	3:K:153:A:N6	1.92	0.55
3:K:236:A:H2'	3:K:237:A:C8	2.39	0.55
4:L:561:U:C2	4:L:562:U:C5	2.94	0.55
4:L:592:U:H2'	4:L:593:U:C6	2.39	0.55
4:L:595:U:C2'	4:L:596:U:O5'	2.54	0.55
4:L:635:U:H2'	4:L:636:U:O4'	2.07	0.55
4:L:640:U:N3	4:L:641:U:C5	2.73	0.55
4:L:648:U:N3	4:L:649:U:C4	2.74	0.55
4:L:735:U:C2	4:L:736:U:C5	2.95	0.55
4:L:767:U:N3	4:L:768:U:O4	2.39	0.55
4:L:778:U:O2'	4:L:779:U:C5'	2.43	0.55
5:M:315:U:C2	5:M:316:U:C5	2.94	0.55
5:M:427:U:C4	5:M:428:U:O4	2.59	0.55
5:M:508:U:C2	5:M:509:U:C6	2.93	0.55
5:M:513:U:O2'	5:M:514:U:C5'	2.42	0.55
5:M:521:U:C2'	5:M:522:U:H5'	2.35	0.55
6:N:350:U:C2	6:N:351:U:C5	2.93	0.55
6:N:396:U:C2	6:N:397:U:C6	2.95	0.55
6:N:418:U:C4	6:N:419:U:C4	2.93	0.55
6:N:432:U:C2	6:N:433:U:C5	2.94	0.55
6:N:439:U:N3	6:N:440:U:C4	2.74	0.55
1:I:48:A:N3	1:I:49:A:C8	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:66:A:N1	1:I:67:A:C6	2.74	0.55
1:I:97:A:H2'	1:I:98:A:C5'	2.36	0.55
1:I:116:A:C2	1:I:117:A:N9	2.73	0.55
1:I:120:A:C2	1:I:121:A:N9	2.74	0.55
1:I:134:A:C5	1:I:135:A:N7	2.73	0.55
1:I:191:A:C6	1:I:192:A:C5	2.93	0.55
1:I:249:A:C2	1:I:250:A:C1'	2.89	0.55
1:I:255:A:C2	1:I:256:A:C4	2.94	0.55
1:I:314:A:H2'	1:I:315:A:C8	2.41	0.55
1:I:346:A:O2'	1:I:347:A:H5'	2.06	0.55
2:J:27:A:C2'	2:J:28:A:C5'	2.84	0.55
2:J:28:A:N3	2:J:29:A:C8	2.74	0.55
2:J:117:A:H2	2:J:118:A:N3	2.04	0.55
2:J:144:A:C2	2:J:145:A:C5	2.93	0.55
2:J:228:A:N6	2:J:229:A:N6	2.54	0.55
2:J:236:A:N1	2:J:237:A:N6	2.54	0.55
3:K:46:A:O3'	3:K:47:A:O5'	2.23	0.55
3:K:119:A:N1	3:K:120:A:C4	2.74	0.55
3:K:181:A:O2'	3:K:182:A:O5'	2.24	0.55
4:L:483:U:H2'	4:L:484:U:H6	1.71	0.55
4:L:576:U:H2'	4:L:577:U:H6	1.71	0.55
4:L:641:U:H2'	4:L:642:U:H6	1.71	0.55
4:L:729:U:C4	4:L:730:U:C4	2.86	0.55
4:L:760:U:C2'	4:L:761:U:O4'	2.54	0.55
4:L:761:U:C4	4:L:762:U:C4	2.93	0.55
4:L:776:U:C2'	4:L:777:U:O4'	2.52	0.55
5:M:395:U:H2'	5:M:396:U:O5'	2.05	0.55
5:M:425:U:C2'	5:M:426:U:O5'	2.52	0.55
5:M:442:U:H2'	5:M:443:U:H6	1.70	0.55
5:M:509:U:H2'	5:M:510:U:C6	2.35	0.55
5:M:547:U:O2	5:M:548:U:C5	2.58	0.55
6:N:446:U:O2	6:N:447:U:C6	2.59	0.55
1:I:21:A:C6	1:I:22:A:C6	2.94	0.55
1:I:30:A:H2'	1:I:31:A:O5'	2.05	0.55
1:I:58:A:N1	1:I:59:A:C6	2.75	0.55
1:I:96:A:N1	1:I:97:A:C5	2.73	0.55
1:I:109:A:C2'	1:I:110:A:O5'	2.54	0.55
1:I:143:A:N1	1:I:144:A:C6	2.75	0.55
1:I:185:A:C2	1:I:186:A:C8	2.94	0.55
1:I:229:A:C2'	1:I:230:A:O5'	2.53	0.55
1:I:248:A:N1	1:I:249:A:C5	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:262:A:C2	1:I:263:A:N9	2.74	0.55
1:I:328:A:C2	1:I:329:A:C5	2.94	0.55
1:I:333:A:H2	1:I:334:A:H1'	1.67	0.55
1:I:373:A:C5	1:I:374:A:N7	2.75	0.55
2:J:41:A:H2'	2:J:42:A:C8	2.40	0.55
2:J:79:A:C2	2:J:80:A:C8	2.95	0.55
2:J:102:A:C6	2:J:103:A:C6	2.95	0.55
2:J:159:A:C2'	2:J:160:A:H8	2.16	0.55
2:J:175:A:C2	2:J:176:A:C5	2.94	0.55
2:J:180:A:C2	2:J:181:A:C8	2.94	0.55
2:J:260:A:HO2'	2:J:261:A:H5'	1.71	0.55
3:K:64:A:O2'	3:K:65:A:C4'	2.54	0.55
3:K:105:A:O2'	3:K:106:A:C5'	2.54	0.55
3:K:105:A:C6	3:K:106:A:C5	2.94	0.55
3:K:174:A:C2'	3:K:175:A:C5'	2.84	0.55
4:L:458:U:C2'	4:L:459:U:H5'	2.36	0.55
4:L:618:U:C2'	4:L:619:U:H5'	2.35	0.55
4:L:698:U:C2'	4:L:699:U:O4'	2.55	0.55
4:L:724:U:C2'	4:L:725:U:C4'	2.83	0.55
4:L:734:U:C2	4:L:735:U:C5	2.94	0.55
4:L:745:U:H2'	4:L:746:U:H6	1.71	0.55
4:L:810:U:C2'	4:L:811:U:C4'	2.84	0.55
5:M:297:U:H2'	5:M:298:U:C5'	2.36	0.55
5:M:419:U:H2'	5:M:420:U:C4'	2.36	0.55
5:M:450:U:N3	5:M:451:U:C5	2.74	0.55
5:M:517:U:C2	5:M:518:U:C6	2.95	0.55
5:M:522:U:H2'	5:M:523:U:C5'	2.35	0.55
6:N:296:U:O4	6:N:297:U:O4	2.24	0.55
6:N:388:U:C2	6:N:389:U:C6	2.94	0.55
6:N:398:U:O2'	6:N:399:U:P	2.63	0.55
6:N:446:U:H2'	6:N:447:U:H6	1.70	0.55
1:I:43:A:C6	1:I:44:A:N6	2.74	0.55
1:I:47:A:C4	1:I:48:A:N7	2.75	0.55
1:I:68:A:C2	1:I:69:A:C8	2.94	0.55
1:I:71:A:C5	1:I:72:A:N7	2.74	0.55
1:I:120:A:C2	1:I:121:A:C4	2.94	0.55
1:I:191:A:C5	1:I:192:A:N7	2.74	0.55
1:I:196:A:C2	1:I:197:A:N9	2.74	0.55
1:I:212:A:C2	1:I:213:A:C4	2.94	0.55
1:I:232:A:C2'	1:I:233:A:O4'	2.47	0.55
1:I:250:A:C2	1:I:251:A:C5	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:252:A:C4	1:I:253:A:C8	2.94	0.55
1:I:256:A:C6	1:I:257:A:C5	2.95	0.55
1:I:268:A:N1	1:I:269:A:C4	2.72	0.55
1:I:341:A:C2	1:I:342:A:C4	2.95	0.55
1:I:375:A:C2	1:I:376:A:C4	2.94	0.55
2:J:29:A:C2	2:J:30:A:C8	2.94	0.55
2:J:106:A:H2'	2:J:107:A:C5'	2.34	0.55
2:J:147:A:N3	2:J:148:A:N7	2.53	0.55
2:J:257:A:C2'	2:J:258:A:C5'	2.84	0.55
3:K:18:A:C6	3:K:19:A:N6	2.74	0.55
3:K:108:A:C6	3:K:109:A:C5	2.95	0.55
3:K:113:A:O2'	3:K:114:A:C5'	2.49	0.55
4:L:447:U:C3'	4:L:448:U:OP2	2.54	0.55
4:L:694:U:H2'	4:L:695:U:O4'	2.06	0.55
4:L:708:U:H2'	4:L:709:U:O5'	2.06	0.55
4:L:738:U:N3	4:L:739:U:C5	2.74	0.55
4:L:771:U:HO2'	4:L:772:U:H5'	1.66	0.55
4:L:781:U:O2'	4:L:782:U:H5'	2.06	0.55
5:M:322:U:C2'	5:M:323:U:C4'	2.82	0.55
5:M:412:U:C2'	5:M:413:U:H5'	2.37	0.55
5:M:427:U:N3	5:M:428:U:C5	2.74	0.55
5:M:462:U:O2'	5:M:463:U:C5'	2.48	0.55
5:M:482:U:C2'	5:M:483:U:C5'	2.83	0.55
6:N:405:U:O2	6:N:406:U:C6	2.59	0.55
6:N:446:U:O2'	6:N:447:U:P	2.64	0.55
6:N:467:U:H2'	6:N:468:U:O5'	2.06	0.55
6:N:513:U:O2'	6:N:514:U:H5'	2.06	0.55
1:I:22:A:C2	1:I:23:A:C4	2.94	0.55
1:I:131:A:H62	1:I:132:A:H62	1.43	0.55
1:I:163:A:H2'	1:I:164:A:H8	1.71	0.55
1:I:172:A:H2'	1:I:173:A:O5'	2.05	0.55
1:I:177:A:H2'	1:I:178:A:C8	2.38	0.55
1:I:274:A:H2	1:I:275:A:C4	2.23	0.55
2:J:11:A:C3'	2:J:12:A:C5'	2.56	0.55
2:J:15:A:O2'	2:J:16:A:H5'	2.07	0.55
2:J:27:A:C2'	2:J:28:A:H5'	2.36	0.55
2:J:37:A:C4	2:J:38:A:C8	2.94	0.55
2:J:40:A:C2	2:J:41:A:C5	2.94	0.55
2:J:47:A:N3	2:J:48:A:O4'	2.40	0.55
2:J:206:A:N1	2:J:207:A:C5	2.74	0.55
2:J:222:A:N3	2:J:223:A:C8	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:249:A:C4	2:J:250:A:C8	2.95	0.55
3:K:108:A:C2'	3:K:109:A:C5'	2.85	0.55
3:K:114:A:N3	3:K:115:A:N9	2.53	0.55
4:L:414:U:C2	4:L:415:U:C5	2.94	0.55
4:L:437:U:O2	4:L:438:U:C6	2.60	0.55
4:L:448:U:O4	4:L:449:U:O4	2.23	0.55
4:L:496:U:N3	4:L:497:U:C5	2.74	0.55
4:L:544:U:O4	4:L:545:U:O4	2.24	0.55
4:L:576:U:O2'	4:L:577:U:C4'	2.53	0.55
4:L:599:U:H2'	4:L:600:U:O4'	2.06	0.55
4:L:616:U:C2	4:L:617:U:C5	2.95	0.55
4:L:628:U:O2	4:L:629:U:C6	2.60	0.55
4:L:638:U:C2'	4:L:639:U:O4'	2.53	0.55
4:L:642:U:N3	4:L:643:U:C5	2.75	0.55
4:L:668:U:C2	4:L:669:U:C4	2.95	0.55
4:L:694:U:H2'	4:L:695:U:C4'	2.36	0.55
4:L:758:U:H2'	4:L:759:U:C4'	2.36	0.55
5:M:348:U:C6	5:M:349:U:C5	2.94	0.55
5:M:364:U:H2'	5:M:365:U:H6	1.70	0.55
5:M:364:U:H2'	5:M:365:U:O5'	2.07	0.55
5:M:388:U:C2	5:M:389:U:C5	2.95	0.55
6:N:311:U:C2	6:N:312:U:C6	2.95	0.55
6:N:405:U:H2'	6:N:406:U:H6	1.69	0.55
6:N:438:U:H2'	6:N:439:U:H6	1.70	0.55
1:I:83:A:O2'	1:I:84:A:H5'	2.07	0.55
1:I:85:A:N3	1:I:86:A:N9	2.50	0.55
1:I:91:A:N3	1:I:92:A:C8	2.75	0.55
1:I:214:A:H2'	1:I:215:A:C8	2.42	0.55
1:I:237:A:N3	1:I:238:A:C8	2.75	0.55
1:I:249:A:C2	1:I:250:A:C5	2.94	0.55
1:I:261:A:C2'	1:I:262:A:C8	2.83	0.55
2:J:5:A:N1	2:J:6:A:C5	2.75	0.55
2:J:70:A:N3	2:J:71:A:C8	2.74	0.55
2:J:81:A:H2'	2:J:82:A:C5'	2.36	0.55
2:J:124:A:H2	2:J:125:A:C4	2.21	0.55
2:J:131:A:H2'	2:J:132:A:H8	1.71	0.55
2:J:184:A:C2	2:J:185:A:C5	2.94	0.55
2:J:214:A:C4	2:J:215:A:C8	2.94	0.55
4:L:477:U:C2'	4:L:478:U:O4'	2.54	0.55
4:L:549:U:C2	4:L:550:U:C5	2.95	0.55
4:L:569:U:C2'	4:L:570:U:H5'	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:614:U:H2'	4:L:615:U:H6	1.72	0.55
4:L:659:U:H2'	4:L:660:U:C6	2.42	0.55
4:L:730:U:O2'	4:L:731:U:O5'	2.24	0.55
4:L:732:U:N3	4:L:733:U:C5	2.75	0.55
4:L:752:U:H2'	4:L:753:U:H6	1.71	0.55
4:L:778:U:H2'	4:L:779:U:O5'	2.07	0.55
4:L:792:U:O2'	4:L:793:U:H5'	2.05	0.55
5:M:318:U:H2'	5:M:319:U:H6	1.71	0.55
5:M:418:U:C4	5:M:419:U:O4	2.60	0.55
5:M:432:U:H2'	5:M:433:U:H6	1.72	0.55
5:M:452:U:H2'	5:M:453:U:C5'	2.37	0.55
5:M:466:U:C4	5:M:467:U:C4	2.95	0.55
5:M:511:U:H2'	5:M:512:U:C5'	2.33	0.55
6:N:398:U:H2'	6:N:399:U:O5'	2.07	0.55
6:N:431:U:H2'	6:N:432:U:C4'	2.37	0.55
6:N:524:U:C3'	6:N:525:U:OP2	2.54	0.55
1:I:80:A:O2'	1:I:81:A:H5'	2.06	0.55
1:I:113:A:C2'	1:I:114:A:C5'	2.85	0.55
1:I:113:A:C2'	1:I:114:A:C8	2.80	0.55
1:I:157:A:C2'	1:I:158:A:C5'	2.84	0.55
1:I:196:A:C2'	1:I:197:A:C5'	2.85	0.55
1:I:221:A:N3	1:I:222:A:C8	2.75	0.55
1:I:223:A:N3	1:I:224:A:C8	2.75	0.55
1:I:316:A:C4	1:I:317:A:N7	2.75	0.55
1:I:337:A:O2'	1:I:338:A:C4'	2.51	0.55
2:J:28:A:C2	2:J:29:A:C5	2.95	0.55
2:J:42:A:C2'	2:J:43:A:C4'	2.85	0.55
2:J:66:A:C2	2:J:67:A:N9	2.74	0.55
2:J:103:A:H2'	2:J:104:A:O5'	2.06	0.55
2:J:107:A:C2	2:J:108:A:C8	2.95	0.55
2:J:122:A:H2'	2:J:123:A:H8	1.72	0.55
2:J:126:A:C6	2:J:127:A:C5	2.95	0.55
2:J:134:A:N6	2:J:135:A:H62	2.04	0.55
2:J:161:A:C2	2:J:162:A:C8	2.94	0.55
2:J:206:A:N3	2:J:207:A:N9	2.55	0.55
3:K:45:A:HO2'	3:K:46:A:C4'	2.20	0.55
3:K:81:A:N3	3:K:82:A:C8	2.75	0.55
3:K:92:A:H2'	3:K:93:A:O5'	2.07	0.55
3:K:147:A:C2	3:K:148:A:C4	2.95	0.55
3:K:154:A:N1	3:K:155:A:C5	2.74	0.55
3:K:167:A:O5'	3:K:168:A:OP2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:257:A:H2'	3:K:258:A:C8	2.40	0.55
4:L:618:U:O2'	4:L:619:U:C5'	2.40	0.55
4:L:620:U:C2	4:L:621:U:C5	2.94	0.55
4:L:646:U:C2	4:L:647:U:C6	2.95	0.55
5:M:323:U:O2	5:M:324:U:N1	2.40	0.55
5:M:544:U:H2'	5:M:545:U:C6	2.35	0.55
6:N:309:U:C2	6:N:310:U:C5	2.95	0.55
6:N:367:U:H2'	6:N:368:U:C6	2.42	0.55
6:N:370:U:H2'	6:N:371:U:C6	2.40	0.55
6:N:437:U:N3	6:N:438:U:C5	2.75	0.55
1:I:61:A:H2'	1:I:62:A:O4'	2.07	0.55
1:I:67:A:C2	1:I:68:A:C4	2.94	0.55
1:I:138:A:C2'	1:I:139:A:O4'	2.51	0.55
1:I:212:A:C2'	1:I:213:A:O5'	2.54	0.55
1:I:235:A:C2	1:I:236:A:N7	2.75	0.55
1:I:235:A:C4	1:I:236:A:C8	2.95	0.55
1:I:237:A:C2'	1:I:238:A:O5'	2.55	0.55
1:I:270:A:C5	1:I:271:A:C8	2.95	0.55
1:I:305:A:C6	1:I:306:A:N7	2.75	0.55
1:I:320:A:H2'	1:I:321:A:C5'	2.36	0.55
2:J:8:A:C2	2:J:9:A:N9	2.75	0.55
2:J:8:A:H2'	2:J:9:A:H8	1.72	0.55
2:J:32:A:C2	2:J:33:A:C4	2.94	0.55
2:J:78:A:C2'	2:J:79:A:H5'	2.36	0.55
3:K:97:A:C2'	3:K:98:A:C4'	2.83	0.55
4:L:414:U:H2'	4:L:415:U:H6	1.72	0.55
4:L:498:U:C2'	4:L:499:U:O4'	2.53	0.55
4:L:531:U:O2'	4:L:532:U:H5'	2.05	0.55
4:L:564:U:O2	4:L:565:U:C6	2.59	0.55
4:L:578:U:C2	4:L:579:U:C6	2.95	0.55
4:L:745:U:O2'	4:L:746:U:P	2.61	0.55
4:L:819:U:H2'	4:L:820:U:C6	2.42	0.55
5:M:300:U:H2'	5:M:301:U:C5'	2.37	0.55
5:M:347:U:C2'	5:M:348:U:C4'	2.81	0.55
5:M:353:U:H2'	5:M:354:U:H6	1.72	0.55
5:M:367:U:C2	5:M:368:U:C6	2.95	0.55
5:M:398:U:N3	5:M:399:U:C5	2.74	0.55
6:N:294:U:C2'	6:N:295:U:C5'	2.84	0.55
6:N:335:U:N3	6:N:336:U:C4	2.75	0.55
6:N:416:U:H2'	6:N:417:U:C6	2.42	0.55
1:I:151:A:C2	1:I:152:A:C5	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:167:A:O2'	1:I:168:A:C5'	2.35	0.55
1:I:189:A:C2	1:I:190:A:C4	2.95	0.55
1:I:222:A:N3	1:I:223:A:C8	2.75	0.55
1:I:366:A:O2'	1:I:367:A:H5'	2.06	0.55
1:I:404:A:C6	1:I:405:A:C6	2.95	0.55
1:I:405:A:C4	1:I:406:A:N7	2.75	0.55
2:J:84:A:C6	2:J:85:A:N7	2.75	0.55
2:J:89:A:H2'	2:J:90:A:H8	1.72	0.55
2:J:211:A:H2'	2:J:212:A:O4'	2.06	0.55
2:J:265:A:N1	2:J:266:A:C5	2.74	0.55
3:K:54:A:O2'	3:K:55:A:P	2.65	0.55
3:K:146:A:N1	3:K:147:A:C5	2.74	0.55
3:K:181:A:C2	3:K:182:A:N7	2.74	0.55
3:K:189:A:C6	3:K:190:A:N6	2.75	0.55
3:K:224:A:H2'	3:K:225:A:H8	1.72	0.55
4:L:423:U:N3	4:L:424:U:C4	2.75	0.55
4:L:443:U:H2'	4:L:444:U:H6	1.72	0.55
4:L:483:U:N3	4:L:484:U:C5	2.75	0.55
4:L:496:U:C2'	4:L:497:U:O4'	2.55	0.55
4:L:650:U:N3	4:L:651:U:C5	2.75	0.55
4:L:655:U:C2	4:L:656:U:C6	2.95	0.55
4:L:711:U:C5	4:L:712:U:C5	2.95	0.55
5:M:290:U:C2	5:M:291:U:C6	2.95	0.55
5:M:295:U:C2'	5:M:296:U:C5'	2.84	0.55
5:M:306:U:C2'	5:M:307:U:C5'	2.85	0.55
5:M:313:U:C3'	5:M:314:U:P	2.94	0.55
5:M:517:U:H2'	5:M:518:U:H6	1.72	0.55
6:N:298:U:O2'	6:N:299:U:H5'	2.07	0.55
6:N:326:U:C2'	6:N:327:U:C6	2.79	0.55
6:N:341:U:C4	6:N:342:U:O4	2.59	0.55
6:N:355:U:C2	6:N:356:U:C5	2.95	0.55
6:N:459:U:C2'	6:N:460:U:H6	2.12	0.55
1:I:10:A:O2'	1:I:11:A:P	2.65	0.55
1:I:61:A:C4	1:I:62:A:N7	2.75	0.55
1:I:67:A:C2'	1:I:68:A:C5'	2.83	0.55
1:I:178:A:H2'	1:I:179:A:H8	1.72	0.55
1:I:190:A:C2'	1:I:191:A:O5'	2.54	0.55
1:I:237:A:H2'	1:I:238:A:O4'	2.07	0.55
1:I:242:A:N1	1:I:243:A:C4	2.75	0.55
1:I:243:A:C6	1:I:244:A:N7	2.73	0.55
1:I:274:A:C4	1:I:275:A:C8	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:283:A:O2'	1:I:284:A:C5'	2.55	0.55
1:I:295:A:C2'	1:I:296:A:C5'	2.85	0.55
1:I:307:A:C2	4:L:519:U:C2	2.95	0.55
1:I:340:A:O2'	1:I:341:A:C5'	2.55	0.55
1:I:353:A:C4	1:I:354:A:C8	2.95	0.55
1:I:376:A:O2'	1:I:377:A:P	2.65	0.55
1:I:387:A:C2'	1:I:388:A:C5'	2.84	0.55
2:J:32:A:C2	2:J:33:A:C5	2.95	0.55
2:J:119:A:N1	2:J:120:A:C6	2.75	0.55
2:J:131:A:C4	2:J:132:A:N7	2.75	0.55
2:J:171:A:O2'	2:J:172:A:O5'	2.24	0.55
2:J:200:A:C2	2:J:201:A:N9	2.74	0.55
2:J:221:A:N3	2:J:222:A:C8	2.75	0.55
3:K:3:A:H2'	3:K:4:A:C8	2.41	0.55
3:K:41:A:C2	3:K:42:A:N9	2.75	0.55
3:K:103:A:C2'	3:K:104:A:H5'	2.36	0.55
4:L:487:U:C2	4:L:488:U:C6	2.95	0.55
4:L:488:U:O2'	4:L:489:U:C4'	2.54	0.55
4:L:491:U:O2	4:L:492:U:N1	2.39	0.55
4:L:512:U:H2'	4:L:513:U:C6	2.40	0.55
4:L:536:U:C2'	4:L:537:U:H5'	2.37	0.55
4:L:610:U:C2	4:L:611:U:C5	2.94	0.55
4:L:612:U:HO2'	4:L:613:U:H5'	1.62	0.55
4:L:633:U:H2'	4:L:634:U:C6	2.42	0.55
4:L:678:U:C3'	4:L:679:U:P	2.91	0.55
4:L:699:U:C2'	4:L:700:U:H5'	2.36	0.55
4:L:792:U:H2'	4:L:793:U:C6	2.39	0.55
4:L:802:U:C2	4:L:803:U:C6	2.94	0.55
5:M:476:U:C2	5:M:477:U:C6	2.95	0.55
5:M:519:U:N3	5:M:520:U:C4	2.74	0.55
6:N:420:U:C2	6:N:421:U:C6	2.95	0.55
1:I:15:A:C6	1:I:16:A:C5	2.94	0.54
1:I:17:A:H2	1:I:18:A:C4	2.24	0.54
1:I:219:A:C2	1:I:220:A:N7	2.74	0.54
1:I:268:A:C2	1:I:269:A:C5	2.96	0.54
1:I:269:A:C5	1:I:270:A:C8	2.95	0.54
2:J:84:A:C2	2:J:85:A:N9	2.74	0.54
2:J:89:A:C2	2:J:90:A:C4	2.93	0.54
2:J:105:A:C4	2:J:106:A:C8	2.94	0.54
2:J:228:A:C5	2:J:229:A:N7	2.75	0.54
3:K:105:A:C2'	3:K:106:A:C5'	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:112:A:C6	3:K:113:A:C6	2.95	0.54
3:K:141:A:H2'	3:K:142:A:C8	2.38	0.54
3:K:146:A:C4	3:K:147:A:N7	2.75	0.54
3:K:147:A:C2	3:K:148:A:C8	2.94	0.54
3:K:151:A:C2	3:K:152:A:N7	2.75	0.54
4:L:610:U:O2'	4:L:611:U:H5'	2.07	0.54
4:L:803:U:N3	4:L:804:U:C5	2.75	0.54
4:L:811:U:C5	4:L:812:U:C5	2.94	0.54
4:L:818:U:C2	4:L:819:U:C5	2.95	0.54
5:M:294:U:C2	5:M:295:U:C5	2.95	0.54
5:M:372:U:C2	5:M:373:U:C5	2.94	0.54
5:M:528:U:C2	5:M:529:U:C6	2.94	0.54
6:N:429:U:C2	6:N:430:U:C6	2.95	0.54
6:N:473:U:O4	6:N:474:U:O4	2.24	0.54
1:I:26:A:H2'	1:I:27:A:O4'	2.07	0.54
1:I:159:A:N1	1:I:160:A:C5	2.76	0.54
1:I:198:A:N3	1:I:199:A:N7	2.55	0.54
1:I:202:A:C2	1:I:203:A:C8	2.96	0.54
1:I:251:A:N6	1:I:252:A:N6	2.54	0.54
1:I:256:A:C4	1:I:257:A:C8	2.96	0.54
2:J:39:A:C2	2:J:40:A:C4	2.95	0.54
2:J:128:A:C5	2:J:129:A:N7	2.75	0.54
2:J:156:A:C2	2:J:157:A:C4	2.95	0.54
2:J:203:A:C2	5:M:351:U:C2	2.95	0.54
2:J:230:A:H2'	2:J:231:A:C5'	2.35	0.54
3:K:64:A:C2'	3:K:65:A:O4'	2.55	0.54
3:K:94:A:C4	3:K:95:A:N7	2.75	0.54
3:K:113:A:C2'	3:K:114:A:H5'	2.36	0.54
3:K:194:A:H2'	3:K:195:A:C8	2.42	0.54
3:K:250:A:C2	3:K:251:A:N9	2.75	0.54
4:L:416:U:H2'	4:L:417:U:C6	2.42	0.54
4:L:745:U:N3	4:L:746:U:C4	2.75	0.54
5:M:335:U:P	5:M:336:U:OP2	2.66	0.54
5:M:369:U:C2	5:M:370:U:C6	2.95	0.54
5:M:370:U:N3	5:M:371:U:C5	2.75	0.54
5:M:440:U:O2'	5:M:441:U:H5'	2.07	0.54
5:M:476:U:C2'	5:M:477:U:C5'	2.85	0.54
5:M:498:U:O2'	5:M:499:U:O5'	2.25	0.54
5:M:515:U:C2'	5:M:516:U:O5'	2.55	0.54
5:M:523:U:N3	5:M:524:U:C5	2.76	0.54
5:M:531:U:C2	5:M:532:U:C6	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:418:U:N3	6:N:419:U:C5	2.75	0.54
6:N:440:U:C2'	6:N:441:U:O4'	2.55	0.54
6:N:474:U:C2'	6:N:475:U:O4'	2.53	0.54
6:N:483:U:O5'	6:N:484:U:OP2	2.26	0.54
1:I:38:A:C2	1:I:39:A:C4	2.96	0.54
1:I:58:A:C6	1:I:59:A:C6	2.96	0.54
1:I:67:A:C2'	1:I:68:A:C8	2.87	0.54
1:I:70:A:O2'	1:I:71:A:O4'	2.25	0.54
1:I:73:A:C5	1:I:74:A:N7	2.76	0.54
1:I:180:A:N1	1:I:181:A:C5	2.75	0.54
1:I:282:A:N1	1:I:283:A:C5	2.75	0.54
1:I:291:A:C2	1:I:292:A:C4	2.96	0.54
1:I:317:A:C2'	1:I:318:A:O5'	2.55	0.54
2:J:63:A:N3	2:J:64:A:C8	2.75	0.54
2:J:85:A:C2	2:J:86:A:C5	2.94	0.54
2:J:93:A:H2'	2:J:94:A:C8	2.43	0.54
2:J:101:A:C4	2:J:102:A:C8	2.95	0.54
2:J:118:A:C2	2:J:119:A:C8	2.95	0.54
2:J:138:A:C5	2:J:139:A:N7	2.76	0.54
2:J:139:A:O2'	2:J:140:A:H5'	2.07	0.54
2:J:186:A:C2'	2:J:187:A:H5'	2.37	0.54
2:J:220:A:N6	2:J:221:A:H62	2.04	0.54
2:J:223:A:C6	2:J:224:A:C8	2.95	0.54
2:J:230:A:C2'	2:J:231:A:O5'	2.55	0.54
2:J:263:A:C5	2:J:264:A:N7	2.75	0.54
3:K:148:A:H2'	3:K:149:A:H8	1.72	0.54
3:K:154:A:C2	6:N:378:U:C2	2.96	0.54
3:K:154:A:C2	6:N:378:U:O2	2.61	0.54
3:K:191:A:C2'	3:K:192:A:C5'	2.86	0.54
4:L:416:U:H2'	4:L:417:U:H6	1.70	0.54
4:L:508:U:H2'	4:L:509:U:H6	1.72	0.54
4:L:630:U:N3	4:L:631:U:C4	2.76	0.54
4:L:649:U:C2	4:L:650:U:C5	2.94	0.54
4:L:766:U:C5'	4:L:767:U:P	2.95	0.54
4:L:766:U:C5	4:L:767:U:H5	2.23	0.54
4:L:771:U:H2'	4:L:772:U:H6	1.71	0.54
4:L:782:U:H2'	4:L:783:U:H6	1.72	0.54
5:M:363:U:H2'	5:M:364:U:H6	1.71	0.54
5:M:399:U:C2'	5:M:400:U:H5'	2.37	0.54
5:M:428:U:C2'	5:M:429:U:O4'	2.55	0.54
5:M:431:U:O2'	5:M:432:U:C5'	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:449:U:C2	5:M:450:U:C6	2.95	0.54
5:M:453:U:HO2'	5:M:454:U:C4'	2.13	0.54
5:M:509:U:N3	5:M:510:U:C5	2.76	0.54
6:N:318:U:C2	6:N:319:U:C4	2.96	0.54
6:N:493:U:C2	6:N:494:U:C5	2.96	0.54
6:N:495:U:H2'	6:N:496:U:H6	1.71	0.54
1:I:152:A:C6	1:I:153:A:C6	2.96	0.54
2:J:21:A:H2'	2:J:22:A:O5'	2.07	0.54
2:J:23:A:H2'	2:J:24:A:O5'	2.07	0.54
2:J:24:A:C2	2:J:25:A:N7	2.75	0.54
2:J:54:A:O2'	2:J:55:A:C4'	2.54	0.54
2:J:58:A:N1	2:J:59:A:C5	2.75	0.54
2:J:65:A:C4	2:J:66:A:C8	2.96	0.54
2:J:150:A:C2	2:J:151:A:C8	2.95	0.54
3:K:6:A:C5	3:K:7:A:N7	2.74	0.54
3:K:103:A:C2'	3:K:104:A:C5'	2.85	0.54
3:K:125:A:C4	3:K:126:A:C8	2.95	0.54
3:K:192:A:C5	3:K:193:A:N7	2.75	0.54
3:K:256:A:C2	3:K:257:A:C4	2.96	0.54
4:L:458:U:H2'	4:L:459:U:C6	2.42	0.54
4:L:506:U:C2	4:L:507:U:C6	2.96	0.54
4:L:515:U:H2'	4:L:516:U:O4'	2.06	0.54
4:L:660:U:C2	4:L:661:U:C6	2.95	0.54
4:L:774:U:O2'	4:L:775:U:P	2.65	0.54
4:L:798:U:O2'	4:L:799:U:H5'	2.08	0.54
5:M:381:U:C2	5:M:382:U:C6	2.95	0.54
5:M:446:U:H2'	5:M:447:U:C6	2.40	0.54
5:M:512:U:N3	5:M:513:U:C4	2.76	0.54
5:M:529:U:H2'	5:M:530:U:O5'	2.06	0.54
5:M:539:U:H2'	5:M:540:U:C5'	2.31	0.54
6:N:400:U:H2'	6:N:401:U:H6	1.71	0.54
6:N:409:U:N3	6:N:410:U:C4	2.75	0.54
6:N:459:U:O2'	6:N:460:U:P	2.66	0.54
6:N:484:U:H2'	6:N:485:U:C4'	2.33	0.54
1:I:4:A:H2'	1:I:5:A:N7	2.23	0.54
1:I:12:A:N1	1:I:13:A:C5	2.76	0.54
1:I:18:A:C6	1:I:19:A:C5	2.96	0.54
1:I:20:A:O2'	1:I:21:A:C5'	2.55	0.54
1:I:57:A:N6	1:I:58:A:N6	2.55	0.54
1:I:130:A:C2	4:L:696:U:C2	2.95	0.54
1:I:213:A:C2'	1:I:214:A:C5'	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:269:A:N1	1:I:270:A:C5	2.75	0.54
1:I:307:A:C2'	1:I:308:A:H5'	2.37	0.54
1:I:366:A:H2'	1:I:367:A:H8	1.73	0.54
2:J:26:A:H2'	2:J:27:A:C5'	2.38	0.54
2:J:26:A:H2'	2:J:27:A:H8	1.71	0.54
2:J:55:A:O2'	2:J:56:A:H5'	2.08	0.54
2:J:148:A:N6	2:J:149:A:N6	2.56	0.54
2:J:150:A:N3	2:J:151:A:C8	2.75	0.54
2:J:165:A:N6	2:J:166:A:N6	2.56	0.54
2:J:187:A:HO2'	2:J:188:A:H5'	1.71	0.54
2:J:203:A:N1	2:J:204:A:C5	2.76	0.54
3:K:59:A:HO2'	3:K:60:A:H5'	1.64	0.54
3:K:65:A:C4	3:K:66:A:C8	2.96	0.54
3:K:80:A:O2'	3:K:81:A:C5'	2.54	0.54
3:K:92:A:C4	3:K:93:A:C8	2.96	0.54
3:K:137:A:C2	3:K:138:A:C8	2.96	0.54
3:K:154:A:C2'	3:K:155:A:H8	2.20	0.54
3:K:155:A:C5	3:K:156:A:C8	2.82	0.54
4:L:462:U:H2'	4:L:463:U:C6	2.42	0.54
4:L:467:U:O2'	4:L:468:U:C5'	2.38	0.54
4:L:517:U:H2'	4:L:518:U:C6	2.40	0.54
4:L:526:U:H2'	4:L:527:U:C6	2.42	0.54
4:L:576:U:O2	4:L:577:U:C6	2.60	0.54
4:L:587:U:C2'	4:L:588:U:O5'	2.51	0.54
4:L:603:U:H2'	4:L:604:U:H6	1.72	0.54
4:L:649:U:H2'	4:L:650:U:C4'	2.37	0.54
4:L:660:U:O2'	4:L:661:U:C4'	2.56	0.54
4:L:759:U:H2'	4:L:760:U:C4'	2.35	0.54
4:L:805:U:N3	4:L:806:U:C5	2.75	0.54
4:L:806:U:N3	4:L:807:U:C4	2.76	0.54
5:M:323:U:H2'	5:M:324:U:O5'	2.04	0.54
5:M:336:U:C2	5:M:337:U:N1	2.75	0.54
5:M:343:U:H2'	5:M:344:U:H6	1.72	0.54
5:M:486:U:H2'	5:M:487:U:C5'	2.38	0.54
5:M:545:U:H2'	5:M:546:U:C6	2.43	0.54
6:N:450:U:C4	6:N:451:U:C5	2.96	0.54
6:N:483:U:C6	6:N:484:U:H5	2.25	0.54
1:I:55:A:N1	1:I:56:A:C5	2.76	0.54
1:I:64:A:H2'	1:I:65:A:C5'	2.37	0.54
1:I:76:A:O2'	1:I:77:A:H5'	2.08	0.54
1:I:94:A:C2	1:I:95:A:C5	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:A:C2	1:I:116:A:C4	2.95	0.54
1:I:182:A:C2'	1:I:183:A:H5'	2.38	0.54
1:I:184:A:H62	1:I:185:A:H62	1.45	0.54
1:I:191:A:H2'	1:I:192:A:C5'	2.38	0.54
1:I:223:A:C2'	1:I:224:A:H5'	2.38	0.54
1:I:243:A:H2'	1:I:244:A:H8	1.72	0.54
1:I:279:A:C2	1:I:280:A:C8	2.95	0.54
1:I:334:A:H2'	1:I:335:A:C5'	2.38	0.54
2:J:4:A:H2'	2:J:5:A:C8	2.42	0.54
2:J:39:A:N3	2:J:40:A:C8	2.75	0.54
2:J:67:A:C2	2:J:68:A:C4	2.96	0.54
2:J:179:A:C2	2:J:180:A:N7	2.75	0.54
3:K:38:A:O2'	3:K:39:A:O5'	2.25	0.54
3:K:88:A:O2'	3:K:89:A:P	2.53	0.54
3:K:91:A:C4	3:K:92:A:C8	2.95	0.54
3:K:100:A:C5	3:K:101:A:C8	2.96	0.54
3:K:116:A:N6	3:K:117:A:H62	2.06	0.54
3:K:127:A:H2'	3:K:128:A:O5'	2.08	0.54
4:L:485:U:N3	4:L:486:U:C5	2.76	0.54
4:L:591:U:H2'	4:L:592:U:H6	1.72	0.54
4:L:603:U:H2'	4:L:604:U:C5'	2.37	0.54
4:L:718:U:O2	4:L:719:U:C1'	2.56	0.54
4:L:760:U:H2'	4:L:761:U:C5'	2.37	0.54
4:L:778:U:C2'	4:L:779:U:O5'	2.54	0.54
5:M:297:U:C2	5:M:298:U:C6	2.95	0.54
5:M:382:U:H2'	5:M:383:U:H6	1.73	0.54
5:M:405:U:H2'	5:M:406:U:O5'	2.06	0.54
5:M:454:U:C2'	5:M:455:U:H6	2.20	0.54
5:M:478:U:C2	5:M:479:U:C5	2.95	0.54
5:M:513:U:H2'	5:M:514:U:C6	2.37	0.54
6:N:414:U:C2	6:N:415:U:C5	2.95	0.54
6:N:473:U:C2'	6:N:474:U:O4'	2.52	0.54
1:I:50:A:C2	1:I:51:A:C8	2.96	0.54
1:I:64:A:N1	1:I:65:A:C5	2.76	0.54
1:I:73:A:C6	1:I:74:A:C5	2.96	0.54
1:I:122:A:H2'	1:I:123:A:O4'	2.06	0.54
1:I:130:A:H2'	1:I:131:A:O5'	2.06	0.54
1:I:136:A:C2	1:I:137:A:C1'	2.91	0.54
1:I:229:A:H2'	1:I:230:A:C8	2.43	0.54
1:I:324:A:C2'	1:I:325:A:O5'	2.55	0.54
1:I:333:A:C2'	1:I:334:A:O4'	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:6:A:N3	2:J:7:A:C8	2.76	0.54
2:J:11:A:C4	2:J:12:A:C8	2.96	0.54
2:J:43:A:N1	2:J:44:A:C5	2.75	0.54
2:J:63:A:N1	2:J:64:A:C5	2.76	0.54
2:J:72:A:H2'	2:J:73:A:H8	1.73	0.54
2:J:209:A:H2'	2:J:210:A:C5'	2.36	0.54
3:K:87:A:N3	3:K:88:A:C8	2.76	0.54
3:K:105:A:N1	3:K:106:A:C5	2.76	0.54
3:K:130:A:C2	3:K:131:A:C5	2.96	0.54
3:K:146:A:O2'	3:K:147:A:H5'	2.08	0.54
4:L:414:U:H2'	4:L:415:U:C6	2.43	0.54
4:L:670:U:C2'	4:L:671:U:H5'	2.38	0.54
4:L:694:U:N3	4:L:695:U:C6	2.72	0.54
4:L:787:U:C2	4:L:788:U:C5	2.96	0.54
5:M:345:U:O2'	5:M:346:U:H5'	2.07	0.54
5:M:369:U:C2'	5:M:370:U:O5'	2.51	0.54
5:M:397:U:C2	5:M:398:U:C6	2.96	0.54
5:M:404:U:H2'	5:M:405:U:H6	1.71	0.54
5:M:434:U:N3	5:M:435:U:C5	2.75	0.54
5:M:459:U:C2'	5:M:460:U:C5'	2.86	0.54
6:N:353:U:H2'	6:N:354:U:H6	1.73	0.54
1:I:47:A:C2	1:I:48:A:C8	2.95	0.54
1:I:70:A:C2	1:I:71:A:C5	2.95	0.54
1:I:239:A:C2	1:I:240:A:N9	2.76	0.54
1:I:240:A:H2	1:I:241:A:C4	2.18	0.54
1:I:323:A:O2'	1:I:324:A:C4'	2.53	0.54
2:J:47:A:N3	2:J:48:A:C8	2.75	0.54
2:J:133:A:N3	2:J:134:A:C8	2.75	0.54
2:J:136:A:C2	2:J:137:A:C1'	2.89	0.54
2:J:163:A:H2'	2:J:164:A:H8	1.72	0.54
2:J:170:A:C2	2:J:171:A:C4	2.95	0.54
2:J:180:A:C2	2:J:181:A:C5	2.96	0.54
2:J:223:A:N3	2:J:224:A:C8	2.75	0.54
2:J:229:A:N3	2:J:230:A:N9	2.56	0.54
3:K:13:A:N6	3:K:14:A:N6	2.56	0.54
3:K:33:A:C3'	3:K:34:A:P	2.92	0.54
3:K:91:A:N6	3:K:92:A:N6	2.56	0.54
3:K:93:A:H2'	3:K:94:A:H8	1.72	0.54
3:K:109:A:O2'	3:K:110:A:H5'	2.07	0.54
3:K:115:A:C6	3:K:116:A:C6	2.96	0.54
3:K:121:A:C4	3:K:122:A:N7	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:549:U:H2'	4:L:550:U:C5'	2.25	0.54
4:L:584:U:C2'	4:L:585:U:H5'	2.36	0.54
4:L:603:U:H2'	4:L:604:U:O5'	2.08	0.54
4:L:692:U:H2'	4:L:693:U:O5'	2.07	0.54
5:M:389:U:H2'	5:M:390:U:C6	2.41	0.54
5:M:429:U:C2	5:M:430:U:C6	2.96	0.54
5:M:453:U:N1	5:M:454:U:C6	2.75	0.54
5:M:457:U:C4	5:M:458:U:C5	2.95	0.54
5:M:507:U:O2'	5:M:508:U:H5'	2.07	0.54
6:N:404:U:N3	6:N:405:U:C5	2.76	0.54
6:N:408:U:C2	6:N:409:U:C6	2.95	0.54
6:N:450:U:H2'	6:N:451:U:C4'	2.28	0.54
1:I:13:A:O2'	1:I:14:A:C4'	2.55	0.54
1:I:48:A:C2	1:I:49:A:C5	2.95	0.54
1:I:57:A:C6	1:I:58:A:C5	2.96	0.54
1:I:61:A:C2	1:I:62:A:C4	2.96	0.54
1:I:81:A:C2	1:I:82:A:C5	2.96	0.54
1:I:133:A:N3	1:I:134:A:N9	2.56	0.54
1:I:213:A:C2'	1:I:214:A:H5'	2.38	0.54
1:I:315:A:H2'	1:I:316:A:C8	2.42	0.54
1:I:335:A:H2'	1:I:336:A:H8	1.73	0.54
1:I:347:A:C2	1:I:348:A:C8	2.96	0.54
1:I:391:A:N6	1:I:392:A:N6	2.56	0.54
2:J:22:A:C2	2:J:23:A:C5	2.96	0.54
2:J:28:A:N1	2:J:29:A:C6	2.76	0.54
2:J:43:A:C2	2:J:44:A:N9	2.76	0.54
2:J:200:A:O2'	2:J:201:A:P	2.62	0.54
3:K:31:A:H62	3:K:32:A:H62	1.52	0.54
3:K:88:A:C2'	3:K:89:A:O5'	2.44	0.54
3:K:105:A:N3	3:K:106:A:C8	2.76	0.54
3:K:107:A:N3	3:K:108:A:C8	2.76	0.54
3:K:137:A:C2'	3:K:138:A:O5'	2.55	0.54
3:K:138:A:O2'	3:K:139:A:P	2.64	0.54
3:K:142:A:C4	3:K:143:A:C8	2.96	0.54
3:K:146:A:O2'	3:K:147:A:C5'	2.56	0.54
3:K:200:A:H2'	3:K:201:A:C8	2.42	0.54
4:L:432:U:H2'	4:L:433:U:H6	1.73	0.54
4:L:474:U:C2'	4:L:475:U:C5'	2.85	0.54
4:L:495:U:N3	4:L:496:U:C5	2.75	0.54
4:L:556:U:H2'	4:L:557:U:H6	1.73	0.54
4:L:571:U:C4	4:L:572:U:C4	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:735:U:H2'	4:L:736:U:C6	2.42	0.54
4:L:737:U:C2	4:L:738:U:C6	2.95	0.54
4:L:749:U:C2	4:L:750:U:C5	2.96	0.54
4:L:782:U:C2	4:L:783:U:C6	2.96	0.54
5:M:352:U:H2'	5:M:353:U:H6	1.72	0.54
5:M:438:U:N3	5:M:439:U:C5	2.76	0.54
5:M:479:U:H2'	5:M:480:U:H6	1.73	0.54
5:M:488:U:N1	5:M:489:U:C6	2.75	0.54
5:M:514:U:C2'	5:M:515:U:O5'	2.54	0.54
6:N:449:U:O2'	6:N:450:U:C4'	2.54	0.54
6:N:465:U:N3	6:N:466:U:O4	2.41	0.54
1:I:27:A:C2	1:I:28:A:C8	2.96	0.54
1:I:46:A:N1	1:I:47:A:C6	2.75	0.54
1:I:70:A:C2'	1:I:71:A:C4'	2.85	0.54
1:I:70:A:C2'	1:I:71:A:O5'	2.50	0.54
1:I:140:A:C2	1:I:141:A:C6	2.96	0.54
1:I:155:A:H2'	1:I:156:A:C8	2.38	0.54
1:I:211:A:O2'	1:I:212:A:C5'	2.49	0.54
1:I:238:A:N1	1:I:239:A:C6	2.76	0.54
1:I:250:A:N9	1:I:251:A:C8	2.76	0.54
1:I:259:A:C2	1:I:260:A:C8	2.95	0.54
1:I:295:A:C2	1:I:296:A:N9	2.76	0.54
1:I:306:A:C2	1:I:307:A:C5	2.96	0.54
1:I:341:A:C2	1:I:342:A:C8	2.96	0.54
1:I:352:A:H2'	1:I:353:A:C8	2.41	0.54
2:J:23:A:N3	2:J:24:A:C8	2.76	0.54
2:J:27:A:N1	2:J:28:A:C5	2.76	0.54
2:J:47:A:H2'	2:J:48:A:C4'	2.35	0.54
2:J:157:A:N3	2:J:158:A:C8	2.76	0.54
2:J:198:A:H2'	2:J:199:A:H8	1.73	0.54
3:K:82:A:C2'	3:K:83:A:C5'	2.86	0.54
3:K:91:A:C5	3:K:92:A:N7	2.76	0.54
4:L:531:U:H2'	4:L:532:U:H5'	1.86	0.54
4:L:548:U:C2'	4:L:549:U:C5'	2.85	0.54
4:L:557:U:C2	4:L:558:U:N1	2.76	0.54
4:L:596:U:C4	4:L:597:U:C4	2.96	0.54
4:L:659:U:H2'	4:L:660:U:H6	1.73	0.54
5:M:381:U:C2'	5:M:382:U:C6	2.83	0.54
5:M:396:U:H2'	5:M:397:U:C6	2.42	0.54
5:M:454:U:C5	5:M:455:U:H5	2.25	0.54
5:M:459:U:C2'	5:M:460:U:H5'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:493:U:C2	5:M:494:U:C5	2.96	0.54
5:M:498:U:C2'	5:M:499:U:C6	2.85	0.54
6:N:299:U:HO3'	6:N:300:U:P	2.29	0.54
6:N:403:U:H2'	6:N:404:U:O5'	2.07	0.54
6:N:438:U:C2'	6:N:439:U:H5'	2.37	0.54
6:N:451:U:C4	6:N:452:U:C4	2.96	0.54
6:N:467:U:C2'	6:N:468:U:O5'	2.56	0.54
6:N:469:U:C4	6:N:470:U:C4	2.96	0.54
1:I:13:A:C6	1:I:14:A:N6	2.76	0.53
1:I:47:A:H2'	1:I:48:A:C8	2.38	0.53
1:I:74:A:C4	1:I:75:A:N9	2.75	0.53
1:I:140:A:N3	1:I:141:A:C8	2.75	0.53
1:I:183:A:C4	1:I:184:A:C8	2.96	0.53
1:I:262:A:N1	1:I:263:A:C5	2.76	0.53
1:I:291:A:H2'	1:I:292:A:O4'	2.08	0.53
1:I:306:A:C4	1:I:307:A:C8	2.96	0.53
1:I:323:A:N1	1:I:324:A:C4	2.75	0.53
1:I:331:A:N6	1:I:332:A:H62	2.06	0.53
2:J:36:A:C5	2:J:37:A:N7	2.76	0.53
2:J:51:A:C6	2:J:52:A:N6	2.77	0.53
2:J:52:A:N6	2:J:53:A:N6	2.56	0.53
2:J:91:A:H2'	2:J:92:A:O5'	2.08	0.53
2:J:96:A:N3	2:J:97:A:C8	2.76	0.53
2:J:161:A:C4	2:J:162:A:C8	2.96	0.53
2:J:181:A:H2'	2:J:182:A:H8	1.73	0.53
2:J:205:A:N3	2:J:206:A:C1'	2.71	0.53
2:J:224:A:C2	2:J:225:A:C4	2.96	0.53
3:K:29:A:H2'	3:K:30:A:H8	1.72	0.53
3:K:87:A:C4	3:K:88:A:C8	2.95	0.53
3:K:107:A:H2'	3:K:108:A:C5'	2.37	0.53
3:K:119:A:C2	3:K:120:A:H1'	2.43	0.53
3:K:128:A:N6	3:K:129:A:N6	2.56	0.53
3:K:174:A:H2'	3:K:175:A:C5'	2.39	0.53
4:L:589:U:C2'	4:L:590:U:H5'	2.38	0.53
4:L:602:U:C2'	4:L:603:U:C5'	2.85	0.53
4:L:649:U:H2'	4:L:650:U:C6	2.43	0.53
4:L:674:U:H2'	4:L:675:U:C4'	2.38	0.53
5:M:527:U:C2'	5:M:528:U:C5'	2.86	0.53
6:N:338:U:N1	6:N:339:U:C5	2.76	0.53
6:N:409:U:H2'	6:N:410:U:H6	1.74	0.53
6:N:459:U:C2	6:N:460:U:C6	2.94	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:26:A:C5	1:I:27:A:N7	2.76	0.53
1:I:41:A:O2'	1:I:42:A:O5'	2.25	0.53
1:I:49:A:C2	1:I:50:A:N7	2.76	0.53
1:I:70:A:H2'	1:I:71:A:C4'	2.38	0.53
1:I:113:A:N1	1:I:114:A:C5	2.76	0.53
1:I:122:A:C2'	1:I:123:A:O5'	2.55	0.53
1:I:156:A:C4	1:I:157:A:C8	2.96	0.53
1:I:196:A:C2	1:I:197:A:C4	2.96	0.53
1:I:202:A:O2'	1:I:203:A:C4'	2.52	0.53
1:I:259:A:C5	1:I:260:A:N7	2.76	0.53
1:I:272:A:H61	1:I:273:A:N6	1.98	0.53
1:I:281:A:C6	1:I:282:A:C5	2.96	0.53
1:I:296:A:C2'	1:I:297:A:O5'	2.57	0.53
1:I:315:A:C2'	1:I:316:A:O4'	2.55	0.53
1:I:353:A:O2'	1:I:354:A:C4'	2.56	0.53
2:J:99:A:N1	2:J:100:A:C6	2.76	0.53
2:J:126:A:C2'	2:J:127:A:H5'	2.38	0.53
2:J:126:A:O2'	2:J:127:A:H5'	2.08	0.53
2:J:201:A:N1	2:J:202:A:C5	2.76	0.53
2:J:206:A:C2	2:J:207:A:C5	2.95	0.53
2:J:221:A:HO2'	2:J:222:A:H5'	1.60	0.53
2:J:257:A:H2'	2:J:258:A:C8	2.43	0.53
3:K:71:A:N1	3:K:72:A:C5	2.74	0.53
3:K:216:A:H2'	3:K:217:A:H8	1.73	0.53
4:L:419:U:H2'	4:L:420:U:C6	2.42	0.53
4:L:497:U:N3	4:L:498:U:C6	2.76	0.53
4:L:504:U:C2	4:L:505:U:C6	2.96	0.53
4:L:547:U:C2'	4:L:548:U:H6	2.17	0.53
4:L:583:U:O4	4:L:584:U:O4	2.26	0.53
4:L:628:U:O2'	4:L:629:U:P	2.66	0.53
4:L:648:U:C4	4:L:649:U:C5	2.96	0.53
4:L:711:U:H2'	4:L:712:U:C1'	2.38	0.53
4:L:771:U:C2'	4:L:772:U:O5'	2.56	0.53
4:L:819:U:O2	4:L:820:U:C5	2.61	0.53
5:M:298:U:N3	5:M:299:U:C5	2.76	0.53
5:M:360:U:C2	5:M:361:U:C6	2.96	0.53
5:M:374:U:C2	5:M:375:U:C5	2.97	0.53
5:M:427:U:N3	5:M:428:U:C4	2.76	0.53
5:M:436:U:C4	5:M:437:U:C4	2.96	0.53
5:M:449:U:H2'	5:M:450:U:C5'	2.33	0.53
5:M:464:U:C2'	5:M:465:U:H5'	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:467:U:C2	5:M:468:U:C6	2.96	0.53
5:M:501:U:H2'	5:M:502:U:O4'	2.09	0.53
6:N:370:U:C2	6:N:371:U:C5	2.96	0.53
6:N:413:U:C4	6:N:414:U:C4	2.95	0.53
6:N:485:U:H3'	6:N:486:U:P	2.47	0.53
6:N:503:U:C2	6:N:504:U:C5	2.97	0.53
1:I:59:A:O2'	1:I:60:A:C5'	2.43	0.53
1:I:123:A:C2'	1:I:124:A:C5'	2.86	0.53
1:I:149:A:H3'	1:I:150:A:OP2	2.09	0.53
1:I:243:A:H2'	1:I:244:A:C8	2.43	0.53
1:I:256:A:C6	1:I:257:A:N7	2.76	0.53
1:I:263:A:N1	1:I:264:A:C5	2.76	0.53
1:I:304:A:H2'	1:I:305:A:O5'	2.08	0.53
2:J:24:A:N3	2:J:25:A:C8	2.77	0.53
2:J:42:A:C2	2:J:43:A:C5	2.97	0.53
2:J:46:A:N6	2:J:47:A:H62	2.06	0.53
2:J:131:A:C6	2:J:132:A:C6	2.96	0.53
2:J:173:A:O2'	2:J:174:A:H5'	2.07	0.53
3:K:65:A:C6	3:K:66:A:N7	2.76	0.53
3:K:70:A:H2'	3:K:71:A:O4'	2.08	0.53
3:K:95:A:H2'	3:K:96:A:O5'	2.07	0.53
3:K:105:A:C4	3:K:106:A:C5	2.96	0.53
3:K:106:A:N1	3:K:107:A:C6	2.76	0.53
3:K:155:A:H2'	3:K:156:A:C8	2.43	0.53
3:K:206:A:C2'	3:K:207:A:O4'	2.55	0.53
3:K:227:A:H2'	3:K:228:A:H8	1.68	0.53
4:L:425:U:H2'	4:L:426:U:H6	1.72	0.53
4:L:467:U:H2'	4:L:468:U:O5'	2.09	0.53
4:L:580:U:C2'	4:L:581:U:O5'	2.55	0.53
4:L:596:U:C2	4:L:597:U:C6	2.96	0.53
4:L:605:U:C2'	4:L:606:U:C5'	2.85	0.53
4:L:631:U:O2	4:L:632:U:C6	2.62	0.53
4:L:703:U:C4	4:L:704:U:O4	2.61	0.53
4:L:751:U:HO2'	4:L:752:U:C4'	2.08	0.53
4:L:771:U:O2'	4:L:772:U:C5'	2.43	0.53
4:L:780:U:HO2'	4:L:781:U:H5'	1.62	0.53
5:M:388:U:H2'	5:M:389:U:C6	2.43	0.53
5:M:432:U:C2	5:M:433:U:C6	2.96	0.53
5:M:525:U:C2	5:M:526:U:C5	2.96	0.53
6:N:303:U:H2'	6:N:304:U:H6	1.71	0.53
6:N:428:U:O2	6:N:429:U:C6	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:13:A:H2'	1:I:14:A:C1'	2.38	0.53
1:I:14:A:N3	1:I:15:A:C8	2.75	0.53
1:I:69:A:C2	1:I:70:A:N9	2.76	0.53
1:I:102:A:N6	1:I:103:A:C6	2.74	0.53
1:I:175:A:H2'	1:I:176:A:C8	2.44	0.53
1:I:212:A:C4	1:I:213:A:C8	2.96	0.53
1:I:251:A:C2'	1:I:252:A:C5'	2.87	0.53
1:I:251:A:C2'	1:I:252:A:O4'	2.57	0.53
1:I:333:A:C4	1:I:334:A:C8	2.96	0.53
1:I:359:A:C6	1:I:360:A:N6	2.76	0.53
2:J:32:A:H2'	2:J:33:A:H8	1.72	0.53
2:J:130:A:C2'	2:J:131:A:O5'	2.57	0.53
2:J:137:A:H2	5:M:417:U:O2	1.91	0.53
2:J:230:A:H2'	2:J:231:A:H8	1.73	0.53
2:J:233:A:N3	2:J:234:A:C8	2.76	0.53
2:J:263:A:C4	2:J:264:A:C8	2.97	0.53
3:K:167:A:C2	6:N:365:U:C2	2.96	0.53
4:L:520:U:C2'	4:L:521:U:H5'	2.38	0.53
4:L:520:U:H2'	4:L:521:U:O5'	2.08	0.53
4:L:524:U:C2'	4:L:525:U:O5'	2.57	0.53
4:L:627:U:C2	4:L:628:U:C6	2.96	0.53
4:L:637:U:H2'	4:L:638:U:O4'	2.07	0.53
4:L:682:U:H2'	4:L:683:U:O4'	2.08	0.53
4:L:746:U:N3	4:L:747:U:C4	2.77	0.53
4:L:754:U:O2'	4:L:755:U:O4'	2.25	0.53
5:M:285:U:O2'	5:M:286:U:H5'	2.09	0.53
5:M:295:U:C2	5:M:296:U:C6	2.96	0.53
5:M:326:U:H2'	5:M:327:U:O5'	2.08	0.53
5:M:360:U:H2'	5:M:361:U:O5'	2.06	0.53
5:M:458:U:H2'	5:M:459:U:H6	1.73	0.53
5:M:508:U:C2'	5:M:509:U:H5'	2.38	0.53
5:M:546:U:C2	5:M:547:U:C6	2.96	0.53
6:N:441:U:O2	6:N:442:U:C6	2.61	0.53
6:N:475:U:C2'	6:N:476:U:C5'	2.86	0.53
1:I:5:A:H2'	1:I:6:A:H8	1.73	0.53
1:I:33:A:C2	1:I:34:A:C4	2.97	0.53
1:I:283:A:C4	1:I:284:A:C8	2.94	0.53
1:I:291:A:C4	1:I:292:A:C8	2.96	0.53
1:I:319:A:N6	1:I:320:A:H62	2.06	0.53
1:I:338:A:H2'	1:I:339:A:H8	1.72	0.53
2:J:12:A:O2'	2:J:13:A:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:25:A:C2	2:J:26:A:C8	2.96	0.53
2:J:29:A:O2'	2:J:30:A:C4'	2.55	0.53
2:J:34:A:C4	2:J:35:A:C8	2.96	0.53
2:J:48:A:N3	2:J:49:A:C8	2.76	0.53
2:J:50:A:N3	2:J:51:A:C8	2.77	0.53
2:J:134:A:N6	2:J:135:A:N6	2.55	0.53
2:J:191:A:C2'	2:J:192:A:O5'	2.55	0.53
3:K:44:A:H2'	3:K:45:A:O4'	2.09	0.53
3:K:103:A:N1	3:K:104:A:C5	2.76	0.53
3:K:118:A:H2'	3:K:119:A:C4'	2.36	0.53
3:K:122:A:C2	3:K:123:A:C4	2.96	0.53
3:K:210:A:H2'	3:K:211:A:C8	2.43	0.53
4:L:429:U:H2'	4:L:430:U:H6	1.74	0.53
4:L:487:U:H2'	4:L:488:U:H6	1.72	0.53
4:L:490:U:H2'	4:L:491:U:C6	2.43	0.53
4:L:559:U:H2'	4:L:560:U:C6	2.43	0.53
4:L:594:U:C2	4:L:595:U:C5	2.97	0.53
4:L:613:U:C2'	4:L:614:U:C5'	2.86	0.53
4:L:711:U:C6	4:L:712:U:C5	2.96	0.53
4:L:711:U:N1	4:L:712:U:C6	2.76	0.53
4:L:735:U:C2	4:L:736:U:C6	2.96	0.53
5:M:347:U:C2	5:M:348:U:C5	2.96	0.53
5:M:376:U:O2	5:M:377:U:O4'	2.25	0.53
5:M:431:U:C2'	5:M:432:U:C5'	2.86	0.53
5:M:445:U:C2	5:M:446:U:C6	2.96	0.53
5:M:511:U:N3	5:M:512:U:C5	2.76	0.53
6:N:327:U:O2'	6:N:328:U:C4'	2.57	0.53
6:N:405:U:H2'	6:N:406:U:O5'	2.09	0.53
6:N:460:U:H2'	6:N:461:U:H6	1.73	0.53
6:N:483:U:C4	6:N:484:U:C5	2.96	0.53
1:I:10:A:H2'	1:I:11:A:H8	1.73	0.53
1:I:53:A:C4	1:I:54:A:C8	2.96	0.53
1:I:65:A:N1	1:I:66:A:C5	2.76	0.53
1:I:112:A:N1	1:I:113:A:C6	2.76	0.53
1:I:136:A:N3	1:I:137:A:N9	2.57	0.53
1:I:186:A:C2	1:I:187:A:N9	2.74	0.53
1:I:247:A:H2'	1:I:248:A:H8	1.72	0.53
1:I:269:A:C6	1:I:270:A:N7	2.76	0.53
1:I:329:A:C2'	1:I:330:A:O4'	2.55	0.53
2:J:8:A:H2'	2:J:9:A:C5'	2.37	0.53
2:J:45:A:C4	2:J:46:A:C8	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:58:A:C2	2:J:59:A:C5	2.97	0.53
2:J:100:A:H2'	2:J:101:A:C5'	2.36	0.53
2:J:133:A:C2	2:J:134:A:N9	2.77	0.53
2:J:216:A:H2'	2:J:217:A:H8	1.74	0.53
3:K:62:A:C6	3:K:63:A:N7	2.76	0.53
3:K:96:A:C5	3:K:97:A:N7	2.76	0.53
3:K:103:A:C2	3:K:104:A:C8	2.97	0.53
3:K:106:A:C6	3:K:107:A:N6	2.77	0.53
3:K:129:A:H2'	3:K:130:A:H8	1.72	0.53
4:L:426:U:O2'	4:L:427:U:H5'	2.08	0.53
4:L:497:U:C2'	4:L:498:U:C4'	2.76	0.53
4:L:507:U:C2'	4:L:508:U:O4'	2.56	0.53
4:L:515:U:C2	4:L:516:U:C6	2.97	0.53
4:L:576:U:H2'	4:L:577:U:C4'	2.39	0.53
4:L:605:U:C2	4:L:606:U:C5	2.97	0.53
4:L:622:U:H2'	4:L:623:U:H6	1.72	0.53
4:L:634:U:N3	4:L:635:U:C5	2.77	0.53
4:L:751:U:O2	4:L:752:U:C6	2.61	0.53
4:L:765:U:N3	4:L:766:U:C5	2.76	0.53
5:M:324:U:C2'	5:M:325:U:O4'	2.56	0.53
5:M:339:U:N3	5:M:340:U:C5	2.76	0.53
5:M:461:U:HO2'	5:M:462:U:H5'	1.72	0.53
5:M:477:U:O2'	5:M:478:U:C5'	2.43	0.53
5:M:500:U:H2'	5:M:501:U:C6	2.44	0.53
5:M:501:U:C4	5:M:502:U:O4	2.62	0.53
6:N:361:U:H2'	6:N:362:U:C6	2.43	0.53
6:N:434:U:C2'	6:N:435:U:H6	2.05	0.53
6:N:451:U:C2'	6:N:452:U:C5'	2.87	0.53
6:N:455:U:O2'	6:N:456:U:H5'	2.09	0.53
1:I:70:A:C3'	1:I:71:A:H5'	2.01	0.53
1:I:77:A:N1	1:I:78:A:C5	2.77	0.53
1:I:79:A:N1	4:L:747:U:N3	2.56	0.53
1:I:85:A:H2	1:I:86:A:C4	2.21	0.53
1:I:141:A:N6	1:I:142:A:N6	2.57	0.53
1:I:144:A:H2'	1:I:145:A:H8	1.73	0.53
1:I:163:A:C2	1:I:164:A:C5	2.97	0.53
1:I:190:A:H2'	1:I:191:A:O5'	2.09	0.53
1:I:227:A:H2'	1:I:228:A:H8	1.72	0.53
1:I:269:A:N3	1:I:270:A:C8	2.76	0.53
1:I:320:A:N3	1:I:321:A:C8	2.77	0.53
2:J:38:A:C2	2:J:39:A:N7	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:123:A:C2	2:J:124:A:C4	2.97	0.53
2:J:137:A:O2'	2:J:138:A:H5'	2.09	0.53
2:J:176:A:C2	2:J:177:A:N7	2.75	0.53
2:J:217:A:N1	2:J:218:A:N6	2.55	0.53
2:J:234:A:N3	2:J:235:A:C8	2.77	0.53
3:K:90:A:N1	3:K:91:A:C5	2.77	0.53
3:K:96:A:O2'	3:K:97:A:C4'	2.57	0.53
3:K:102:A:C4	3:K:103:A:C8	2.96	0.53
3:K:109:A:C5	3:K:110:A:N7	2.77	0.53
3:K:115:A:C4	3:K:116:A:N7	2.77	0.53
3:K:127:A:C2	3:K:128:A:C4	2.95	0.53
3:K:143:A:H2'	3:K:144:A:C8	2.44	0.53
4:L:553:U:O2	4:L:554:U:H1'	2.05	0.53
4:L:576:U:N3	4:L:577:U:C5	2.77	0.53
4:L:594:U:H2'	4:L:595:U:O5'	2.09	0.53
4:L:671:U:C2'	4:L:672:U:C5'	2.87	0.53
4:L:712:U:C5	4:L:713:U:C5	2.96	0.53
4:L:795:U:C2	4:L:796:U:C5	2.97	0.53
5:M:287:U:O2	5:M:288:U:C1'	2.57	0.53
5:M:297:U:N3	5:M:298:U:C5	2.77	0.53
6:N:357:U:C2	6:N:358:U:C5	2.96	0.53
6:N:403:U:C2'	6:N:404:U:O5'	2.57	0.53
6:N:434:U:N3	6:N:435:U:C5	2.77	0.53
1:I:30:A:C2'	1:I:31:A:H5'	2.37	0.53
1:I:65:A:N3	1:I:66:A:O4'	2.41	0.53
1:I:169:A:N3	1:I:170:A:C8	2.76	0.53
1:I:195:A:C2	1:I:196:A:C8	2.97	0.53
1:I:232:A:N3	1:I:233:A:C8	2.76	0.53
1:I:246:A:N3	1:I:247:A:C8	2.77	0.53
1:I:268:A:H2	1:I:269:A:C4	2.22	0.53
1:I:298:A:H2'	1:I:299:A:H8	1.73	0.53
1:I:334:A:C6	1:I:335:A:C5	2.97	0.53
2:J:30:A:C4	2:J:31:A:C8	2.97	0.53
2:J:63:A:H2'	2:J:64:A:H8	1.74	0.53
2:J:103:A:C2	2:J:104:A:C8	2.97	0.53
2:J:140:A:C2'	2:J:141:A:C5'	2.87	0.53
2:J:228:A:H2'	2:J:229:A:O4'	2.08	0.53
3:K:146:A:H2'	3:K:147:A:C8	2.39	0.53
3:K:156:A:C2'	3:K:157:A:O5'	2.57	0.53
3:K:210:A:C2'	3:K:211:A:C5'	2.87	0.53
4:L:510:U:O2'	4:L:511:U:C4'	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:581:U:O4	4:L:582:U:O4	2.27	0.53
4:L:593:U:C4	4:L:594:U:C5	2.96	0.53
4:L:692:U:O2	4:L:693:U:C6	2.61	0.53
4:L:711:U:N1	4:L:712:U:C5	2.76	0.53
4:L:735:U:N3	4:L:736:U:C5	2.77	0.53
4:L:738:U:C4	4:L:739:U:O4	2.61	0.53
4:L:747:U:C2'	4:L:748:U:C5'	2.87	0.53
4:L:807:U:O2	4:L:808:U:C6	2.61	0.53
5:M:320:U:C2	5:M:321:U:C6	2.97	0.53
5:M:327:U:O2'	5:M:328:U:O5'	2.27	0.53
5:M:369:U:C2'	5:M:370:U:H5'	2.35	0.53
5:M:538:U:C4	5:M:539:U:H5	2.24	0.53
5:M:544:U:O2'	5:M:545:U:C4'	2.54	0.53
6:N:515:U:C2'	6:N:516:U:H5'	2.39	0.53
6:N:527:U:C4	6:N:528:U:C4	2.96	0.53
1:I:10:A:HO2'	1:I:11:A:H5'	1.72	0.53
1:I:31:A:C4	1:I:32:A:N7	2.76	0.53
1:I:42:A:N1	1:I:43:A:C5	2.77	0.53
1:I:48:A:H2'	1:I:49:A:H8	1.74	0.53
1:I:64:A:C2'	1:I:65:A:O4'	2.57	0.53
1:I:68:A:C2	1:I:69:A:N9	2.77	0.53
1:I:94:A:C2	1:I:95:A:N9	2.77	0.53
1:I:122:A:H2'	1:I:123:A:C5'	2.35	0.53
1:I:138:A:C2	1:I:139:A:C4	2.96	0.53
1:I:178:A:C4	1:I:179:A:C8	2.96	0.53
1:I:223:A:C2'	1:I:224:A:C5'	2.87	0.53
1:I:233:A:C2	1:I:234:A:C4	2.97	0.53
1:I:245:A:C4	1:I:246:A:N7	2.77	0.53
1:I:249:A:H2'	1:I:250:A:O4'	2.08	0.53
1:I:347:A:C2	1:I:348:A:C4	2.97	0.53
1:I:399:A:H2'	1:I:400:A:H8	1.74	0.53
2:J:61:A:H2'	2:J:62:A:H8	1.73	0.53
2:J:210:A:C5	2:J:211:A:N7	2.77	0.53
2:J:221:A:C2	2:J:222:A:C8	2.97	0.53
2:J:222:A:C5	2:J:223:A:C8	2.97	0.53
2:J:222:A:C6	2:J:223:A:N7	2.76	0.53
2:J:247:A:C2	2:J:248:A:C8	2.97	0.53
4:L:587:U:C2	4:L:588:U:C5	2.97	0.53
4:L:597:U:C2	4:L:598:U:C5	2.96	0.53
4:L:709:U:C2	4:L:710:U:C5	2.97	0.53
4:L:733:U:H2'	4:L:734:U:O5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:744:U:C2	4:L:745:U:C6	2.97	0.53
4:L:759:U:O2	4:L:760:U:O4'	2.26	0.53
4:L:791:U:H2'	4:L:792:U:C6	2.44	0.53
5:M:398:U:C2	5:M:399:U:C5	2.97	0.53
5:M:489:U:H2'	5:M:490:U:C6	2.44	0.53
5:M:492:U:C2	5:M:493:U:C5	2.97	0.53
5:M:499:U:C2	5:M:500:U:C5	2.97	0.53
5:M:500:U:H2'	5:M:501:U:H6	1.74	0.53
6:N:283:U:C2	6:N:284:U:C5	2.96	0.53
6:N:423:U:C2	6:N:424:U:C6	2.97	0.53
6:N:437:U:C2	6:N:438:U:C6	2.97	0.53
6:N:446:U:H2'	6:N:447:U:C6	2.44	0.53
6:N:494:U:C2	6:N:495:U:C5	2.97	0.53
1:I:58:A:C2'	1:I:59:A:C8	2.78	0.53
1:I:102:A:N1	1:I:103:A:C6	2.76	0.53
1:I:174:A:N1	1:I:175:A:C5	2.77	0.53
1:I:213:A:C2	1:I:214:A:C5	2.97	0.53
1:I:274:A:HO2'	1:I:275:A:C5'	1.89	0.53
1:I:362:A:C4	1:I:363:A:N7	2.77	0.53
2:J:33:A:C4	2:J:34:A:C8	2.96	0.53
2:J:81:A:H2'	2:J:82:A:O4'	2.08	0.53
2:J:149:A:C2	2:J:150:A:C8	2.97	0.53
2:J:248:A:N6	2:J:249:A:C6	2.66	0.53
2:J:266:A:O2'	2:J:267:A:H5'	2.09	0.53
3:K:58:A:H2'	3:K:59:A:C8	2.44	0.53
3:K:63:A:C2'	3:K:64:A:P	2.97	0.53
3:K:92:A:C2'	3:K:93:A:O5'	2.56	0.53
3:K:100:A:C2	3:K:101:A:N9	2.77	0.53
3:K:101:A:N3	3:K:102:A:C8	2.77	0.53
3:K:106:A:C2	3:K:107:A:C4	2.97	0.53
3:K:251:A:C5	3:K:252:A:N7	2.76	0.53
4:L:427:U:H2'	4:L:428:U:C6	2.44	0.53
4:L:446:U:C3'	4:L:447:U:P	2.92	0.53
4:L:448:U:C2	4:L:449:U:C4	2.82	0.53
4:L:477:U:C2	4:L:478:U:C6	2.96	0.53
4:L:495:U:N3	4:L:496:U:C4	2.77	0.53
4:L:549:U:N3	4:L:550:U:C5	2.77	0.53
4:L:554:U:H2'	4:L:555:U:H6	1.70	0.53
4:L:586:U:N1	4:L:587:U:C5	2.77	0.53
4:L:682:U:C2'	4:L:683:U:O4'	2.57	0.53
4:L:778:U:H2'	4:L:779:U:C6	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:809:U:H2'	4:L:810:U:C6	2.44	0.53
5:M:316:U:O4	5:M:317:U:O4	2.27	0.53
5:M:320:U:C4	5:M:321:U:C5	2.97	0.53
5:M:369:U:C2'	5:M:370:U:C5'	2.86	0.53
5:M:437:U:N3	5:M:438:U:C5	2.77	0.53
5:M:473:U:O2'	5:M:474:U:C5'	2.47	0.53
5:M:491:U:C2	5:M:492:U:C5	2.97	0.53
6:N:299:U:C3'	6:N:300:U:P	2.94	0.53
6:N:348:U:O2'	6:N:349:U:H5'	2.08	0.53
6:N:350:U:C4	6:N:351:U:C4	2.97	0.53
6:N:364:U:C2'	6:N:365:U:O5'	2.49	0.53
6:N:401:U:H2'	6:N:402:U:O4'	2.08	0.53
6:N:421:U:H2'	6:N:422:U:H6	1.74	0.53
6:N:431:U:H2'	6:N:432:U:H6	1.73	0.53
1:I:33:A:H2'	1:I:34:A:C5'	2.38	0.52
1:I:40:A:C3'	1:I:41:A:P	2.92	0.52
1:I:50:A:N1	1:I:51:A:C5	2.77	0.52
1:I:70:A:N3	1:I:71:A:C8	2.77	0.52
1:I:163:A:C4	1:I:164:A:C8	2.97	0.52
1:I:261:A:N1	1:I:262:A:C6	2.77	0.52
1:I:262:A:C2	1:I:263:A:C8	2.97	0.52
1:I:340:A:C2	1:I:341:A:C4	2.98	0.52
2:J:52:A:C6	2:J:53:A:C5	2.97	0.52
2:J:61:A:N3	2:J:62:A:N7	2.57	0.52
2:J:64:A:C2	2:J:65:A:C4	2.97	0.52
2:J:70:A:C2	2:J:71:A:C1'	2.92	0.52
2:J:80:A:H2'	2:J:81:A:O4'	2.09	0.52
2:J:93:A:N3	2:J:94:A:C8	2.77	0.52
2:J:101:A:N1	2:J:102:A:C6	2.77	0.52
2:J:193:A:C2'	2:J:194:A:C5'	2.87	0.52
2:J:264:A:C4	2:J:265:A:C8	2.97	0.52
3:K:7:A:N6	3:K:8:A:N6	2.56	0.52
3:K:49:A:C2	3:K:50:A:N7	2.76	0.52
3:K:147:A:O2'	3:K:148:A:C5'	2.57	0.52
3:K:156:A:O2'	3:K:157:A:O4'	2.22	0.52
3:K:163:A:C2'	3:K:164:A:C5'	2.87	0.52
4:L:467:U:C2'	4:L:468:U:C5'	2.86	0.52
4:L:603:U:C2	4:L:604:U:C6	2.98	0.52
4:L:716:U:N3	4:L:717:U:C5	2.76	0.52
4:L:731:U:H2'	4:L:732:U:C6	2.42	0.52
4:L:747:U:C4	4:L:748:U:C5	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:757:U:C6	4:L:758:U:C5	2.96	0.52
4:L:800:U:C2	4:L:801:U:C6	2.97	0.52
4:L:806:U:C4	4:L:807:U:C5	2.97	0.52
5:M:407:U:N1	5:M:408:U:H5	2.07	0.52
5:M:481:U:N3	5:M:482:U:C5	2.77	0.52
5:M:486:U:HO2'	5:M:487:U:C5'	2.09	0.52
5:M:494:U:N3	5:M:495:U:C5	2.77	0.52
5:M:520:U:H2'	5:M:521:U:C6	2.39	0.52
6:N:313:U:C4	6:N:314:U:C4	2.97	0.52
6:N:368:U:C2'	6:N:369:U:C5'	2.88	0.52
6:N:410:U:O2	6:N:411:U:C5	2.61	0.52
6:N:458:U:H2'	6:N:459:U:C5	2.44	0.52
6:N:481:U:H2'	6:N:482:U:C6	2.38	0.52
1:I:55:A:H2'	1:I:56:A:C5'	2.39	0.52
1:I:72:A:N1	1:I:73:A:C5	2.77	0.52
1:I:120:A:H2'	1:I:121:A:C5'	2.40	0.52
1:I:190:A:H2'	1:I:191:A:H8	1.73	0.52
1:I:206:A:H2'	1:I:207:A:H8	1.73	0.52
1:I:211:A:H2'	1:I:212:A:H8	1.74	0.52
1:I:222:A:C6	1:I:223:A:N7	2.77	0.52
1:I:225:A:N1	1:I:226:A:C6	2.78	0.52
1:I:270:A:H2'	1:I:271:A:O5'	2.06	0.52
2:J:43:A:C5	2:J:44:A:C8	2.97	0.52
2:J:77:A:O2'	2:J:78:A:H5'	2.09	0.52
2:J:96:A:N1	2:J:97:A:C5	2.77	0.52
2:J:104:A:C2	2:J:105:A:C5	2.97	0.52
2:J:107:A:C2	2:J:108:A:N9	2.78	0.52
2:J:141:A:O2'	2:J:142:A:H5'	2.09	0.52
2:J:168:A:C3'	2:J:169:A:OP2	2.57	0.52
2:J:203:A:C2	2:J:204:A:C4	2.97	0.52
3:K:17:A:O2'	3:K:18:A:H5'	2.09	0.52
3:K:35:A:C5	3:K:36:A:N7	2.78	0.52
3:K:96:A:C2	3:K:97:A:C5	2.97	0.52
3:K:110:A:N3	3:K:111:A:N9	2.57	0.52
3:K:113:A:C2	3:K:114:A:C4	2.98	0.52
3:K:115:A:C5	3:K:116:A:N7	2.77	0.52
3:K:138:A:C6	3:K:139:A:N6	2.77	0.52
3:K:233:A:O2'	3:K:234:A:H5'	2.09	0.52
4:L:494:U:O2'	4:L:495:U:C5'	2.42	0.52
4:L:508:U:H2'	4:L:509:U:C6	2.44	0.52
4:L:574:U:C2	4:L:575:U:C6	2.94	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:655:U:C2	4:L:656:U:C5	2.97	0.52
4:L:695:U:N3	4:L:696:U:C5	2.77	0.52
4:L:696:U:N3	4:L:697:U:C4	2.77	0.52
4:L:729:U:C2	4:L:730:U:C6	2.97	0.52
4:L:793:U:C4	4:L:794:U:O4	2.62	0.52
4:L:821:U:H2'	4:L:822:U:O4'	2.09	0.52
5:M:321:U:C4	5:M:322:U:C4	2.96	0.52
5:M:334:U:N3	5:M:335:U:C6	2.77	0.52
5:M:338:U:C2'	5:M:339:U:O5'	2.49	0.52
5:M:379:U:H2'	5:M:380:U:O4'	2.09	0.52
5:M:397:U:C2'	5:M:398:U:H5'	2.40	0.52
5:M:509:U:C2'	5:M:510:U:O5'	2.57	0.52
5:M:535:U:C2'	5:M:536:U:H5'	2.38	0.52
5:M:548:U:H2'	5:M:549:U:H6	1.74	0.52
6:N:440:U:C2'	6:N:441:U:C4'	2.87	0.52
6:N:443:U:C2	6:N:444:U:C6	2.96	0.52
6:N:459:U:C2'	6:N:460:U:C6	2.81	0.52
1:I:6:A:O2'	1:I:7:A:H5'	2.10	0.52
1:I:11:A:C6	1:I:12:A:C6	2.97	0.52
1:I:109:A:C2'	1:I:110:A:C8	2.76	0.52
1:I:138:A:C3'	1:I:139:A:C5'	2.72	0.52
1:I:155:A:N3	1:I:156:A:C8	2.77	0.52
1:I:222:A:C6	1:I:223:A:C5	2.97	0.52
1:I:234:A:C2	1:I:235:A:C8	2.97	0.52
1:I:251:A:C6	1:I:252:A:C6	2.97	0.52
1:I:258:A:N1	1:I:259:A:C5	2.76	0.52
1:I:317:A:H2'	1:I:318:A:O5'	2.10	0.52
1:I:322:A:N6	1:I:323:A:C6	2.77	0.52
1:I:333:A:H2'	1:I:334:A:O4'	2.09	0.52
1:I:347:A:N3	1:I:348:A:C8	2.77	0.52
2:J:55:A:C6	2:J:56:A:N7	2.77	0.52
2:J:65:A:C5	2:J:66:A:N7	2.77	0.52
2:J:72:A:H2'	2:J:73:A:C8	2.45	0.52
2:J:79:A:N3	2:J:80:A:C8	2.77	0.52
2:J:100:A:C4	2:J:101:A:C8	2.97	0.52
2:J:147:A:C2'	2:J:148:A:O5'	2.56	0.52
2:J:159:A:N6	2:J:160:A:H62	2.05	0.52
2:J:207:A:H2'	2:J:208:A:O4'	2.08	0.52
2:J:222:A:C6	2:J:223:A:C5	2.98	0.52
2:J:252:A:HO2'	2:J:253:A:H5'	1.67	0.52
3:K:45:A:H2'	3:K:46:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:72:A:C4	3:K:73:A:C8	2.98	0.52
3:K:80:A:C2'	3:K:81:A:O4'	2.57	0.52
3:K:169:A:C2'	3:K:170:A:C5'	2.88	0.52
3:K:181:A:N3	3:K:182:A:N7	2.55	0.52
4:L:460:U:HO2'	4:L:461:U:H5'	1.59	0.52
4:L:712:U:C2'	4:L:713:U:C6	2.84	0.52
4:L:730:U:C2	4:L:731:U:C6	2.97	0.52
5:M:289:U:H2'	5:M:290:U:C6	2.44	0.52
5:M:522:U:H2'	5:M:523:U:C6	2.41	0.52
5:M:531:U:H2'	5:M:532:U:C4'	2.37	0.52
6:N:273:U:C2	6:N:274:U:C5	2.97	0.52
1:I:19:A:H2'	1:I:20:A:H8	1.74	0.52
1:I:30:A:C2	1:I:31:A:N9	2.77	0.52
1:I:49:A:C2'	1:I:50:A:O5'	2.53	0.52
1:I:59:A:C2'	1:I:60:A:H5'	2.37	0.52
1:I:101:A:N3	1:I:102:A:C5	2.53	0.52
1:I:135:A:HO2'	1:I:136:A:H5'	1.63	0.52
1:I:225:A:C5	1:I:226:A:N7	2.78	0.52
1:I:227:A:H2'	1:I:228:A:C5'	2.39	0.52
1:I:292:A:H2'	1:I:293:A:O5'	2.09	0.52
1:I:360:A:C2'	1:I:361:A:C5'	2.85	0.52
1:I:373:A:H62	1:I:374:A:H62	1.48	0.52
2:J:46:A:N6	2:J:47:A:N6	2.57	0.52
2:J:54:A:O2'	2:J:55:A:O4'	2.27	0.52
2:J:63:A:C2	2:J:64:A:C4	2.97	0.52
2:J:70:A:H2'	2:J:71:A:O4'	2.08	0.52
2:J:80:A:C2'	2:J:81:A:H5'	2.40	0.52
2:J:117:A:C2	2:J:118:A:N3	2.75	0.52
2:J:206:A:H2'	2:J:207:A:C4'	2.38	0.52
2:J:222:A:N1	2:J:223:A:C5	2.77	0.52
3:K:93:A:C2'	3:K:94:A:C5'	2.87	0.52
3:K:97:A:C2	3:K:98:A:C4	2.97	0.52
3:K:130:A:C4	3:K:131:A:C8	2.98	0.52
3:K:212:A:C5	3:K:213:A:C5	2.98	0.52
3:K:239:A:H2'	3:K:240:A:H8	1.74	0.52
3:K:244:A:C3'	3:K:245:A:P	2.92	0.52
4:L:432:U:H2'	4:L:433:U:C6	2.45	0.52
4:L:473:U:C4	4:L:474:U:C4	2.98	0.52
4:L:546:U:C2	4:L:547:U:C5	2.97	0.52
4:L:588:U:H2'	4:L:589:U:C5'	2.36	0.52
4:L:645:U:H2'	4:L:646:U:H6	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:666:U:C2	4:L:667:U:C6	2.97	0.52
4:L:693:U:C2	4:L:694:U:H5	2.20	0.52
4:L:709:U:C2	4:L:710:U:C6	2.97	0.52
4:L:777:U:C2	4:L:778:U:C5	2.97	0.52
5:M:293:U:C2	5:M:294:U:C5	2.97	0.52
5:M:334:U:O2	5:M:335:U:O4'	2.27	0.52
5:M:334:U:N3	5:M:335:U:C5	2.78	0.52
5:M:419:U:C2'	5:M:420:U:C4'	2.87	0.52
5:M:438:U:C2	5:M:439:U:C6	2.97	0.52
5:M:479:U:O2	5:M:480:U:C6	2.62	0.52
5:M:485:U:H2'	5:M:486:U:O4'	2.09	0.52
5:M:488:U:C2'	5:M:489:U:C6	2.81	0.52
5:M:523:U:H2'	5:M:524:U:H6	1.74	0.52
5:M:526:U:N3	5:M:527:U:C5	2.78	0.52
6:N:407:U:H2'	6:N:408:U:H6	1.75	0.52
6:N:423:U:H2'	6:N:424:U:O5'	2.09	0.52
6:N:436:U:N3	6:N:437:U:C4	2.77	0.52
6:N:467:U:H2'	6:N:468:U:H6	1.74	0.52
1:I:63:A:H2'	1:I:64:A:C8	2.44	0.52
1:I:120:A:C4	1:I:121:A:C8	2.98	0.52
1:I:185:A:C4	1:I:186:A:C8	2.98	0.52
1:I:188:A:H2'	1:I:189:A:O4'	2.10	0.52
1:I:244:A:C4	1:I:245:A:C8	2.98	0.52
1:I:302:A:C2	1:I:303:A:C8	2.97	0.52
1:I:312:A:H2'	1:I:313:A:H8	1.74	0.52
1:I:337:A:N3	1:I:338:A:C8	2.77	0.52
2:J:36:A:C4	2:J:37:A:C8	2.96	0.52
2:J:123:A:O2'	2:J:124:A:O4'	2.28	0.52
2:J:191:A:H2'	2:J:192:A:O5'	2.09	0.52
2:J:248:A:H2'	2:J:249:A:C8	2.44	0.52
3:K:5:A:H2'	3:K:6:A:H8	1.74	0.52
3:K:89:A:H2'	3:K:90:A:H8	1.74	0.52
3:K:99:A:N3	3:K:100:A:N9	2.58	0.52
3:K:127:A:C2	3:K:128:A:C8	2.98	0.52
3:K:155:A:N9	3:K:156:A:C8	2.77	0.52
4:L:463:U:O2'	4:L:464:U:C4'	2.57	0.52
4:L:674:U:O2'	4:L:675:U:C4'	2.57	0.52
4:L:706:U:N3	4:L:707:U:C4	2.74	0.52
4:L:721:U:C2	4:L:722:U:C6	2.97	0.52
4:L:723:U:N3	4:L:724:U:N3	2.56	0.52
4:L:731:U:C2'	4:L:732:U:H5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:735:U:C2'	4:L:736:U:H5'	2.40	0.52
4:L:810:U:C2'	4:L:811:U:C6	2.85	0.52
4:L:814:U:C2'	4:L:815:U:O4'	2.56	0.52
5:M:295:U:C2	5:M:296:U:C5	2.98	0.52
5:M:324:U:C2'	5:M:325:U:C6	2.88	0.52
5:M:347:U:N3	5:M:348:U:C5	2.77	0.52
5:M:511:U:H2'	5:M:512:U:C4'	2.39	0.52
5:M:519:U:C2'	5:M:520:U:C5'	2.86	0.52
6:N:399:U:H2'	6:N:400:U:H6	1.73	0.52
6:N:423:U:C2'	6:N:424:U:O5'	2.57	0.52
6:N:440:U:N3	6:N:441:U:C5	2.78	0.52
6:N:448:U:H2'	6:N:449:U:C5'	2.40	0.52
6:N:511:U:H2'	6:N:512:U:C6	2.45	0.52
6:N:511:U:H2'	6:N:512:U:H6	1.75	0.52
1:I:8:A:C4	1:I:9:A:N7	2.78	0.52
1:I:14:A:C4	1:I:15:A:N7	2.77	0.52
1:I:44:A:N1	1:I:45:A:C5	2.78	0.52
1:I:84:A:C2	1:I:85:A:C8	2.96	0.52
1:I:107:A:C4	1:I:108:A:C8	2.97	0.52
1:I:108:A:H2'	1:I:109:A:H8	1.74	0.52
1:I:230:A:N3	1:I:231:A:C8	2.78	0.52
1:I:291:A:C2'	1:I:292:A:O5'	2.58	0.52
1:I:361:A:H2'	1:I:362:A:O4'	2.10	0.52
1:I:364:A:H2'	1:I:365:A:H8	1.74	0.52
2:J:16:A:C2'	2:J:17:A:H5'	2.40	0.52
2:J:64:A:C5	2:J:65:A:N7	2.78	0.52
2:J:84:A:N1	2:J:85:A:C5	2.78	0.52
2:J:90:A:H2'	2:J:91:A:C5'	2.39	0.52
2:J:183:A:N1	2:J:184:A:C4	2.77	0.52
3:K:87:A:C5	3:K:88:A:N7	2.78	0.52
3:K:98:A:C4	3:K:99:A:C8	2.98	0.52
3:K:100:A:C4	3:K:101:A:N7	2.78	0.52
3:K:110:A:C2	3:K:111:A:C1'	2.93	0.52
3:K:112:A:N6	3:K:113:A:H61	1.95	0.52
3:K:212:A:O5'	3:K:213:A:OP2	2.28	0.52
3:K:238:A:N6	3:K:239:A:N6	2.57	0.52
4:L:483:U:H2'	4:L:484:U:O5'	2.09	0.52
4:L:488:U:HO2'	4:L:489:U:C4'	2.22	0.52
4:L:635:U:N3	4:L:636:U:C5	2.78	0.52
5:M:335:U:C2'	5:M:336:U:H6	2.22	0.52
5:M:352:U:C2	5:M:353:U:C5	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:434:U:C2'	5:M:435:U:C5'	2.87	0.52
5:M:455:U:C2	5:M:456:U:C5	2.97	0.52
5:M:465:U:C4	5:M:466:U:C4	2.96	0.52
6:N:396:U:C2'	6:N:397:U:H5'	2.39	0.52
6:N:496:U:O2'	6:N:497:U:O4'	2.27	0.52
1:I:79:A:C6	1:I:80:A:C6	2.98	0.52
1:I:244:A:H2'	1:I:245:A:H8	1.75	0.52
1:I:281:A:H61	1:I:282:A:N6	1.99	0.52
1:I:348:A:H2'	1:I:349:A:O5'	2.10	0.52
1:I:358:A:C2	1:I:359:A:N9	2.78	0.52
2:J:22:A:N3	2:J:23:A:C8	2.77	0.52
2:J:118:A:C2	5:M:436:U:C2	2.97	0.52
2:J:133:A:C2'	2:J:134:A:O5'	2.56	0.52
2:J:153:A:C4	2:J:154:A:C8	2.98	0.52
3:K:10:A:O2'	3:K:11:A:H5'	2.10	0.52
3:K:146:A:C4	3:K:147:A:C8	2.98	0.52
3:K:195:A:H2'	3:K:196:A:C8	2.45	0.52
4:L:502:U:N3	4:L:503:U:C5	2.76	0.52
4:L:659:U:N3	4:L:660:U:C5	2.78	0.52
4:L:722:U:HO2'	4:L:723:U:H6	1.57	0.52
4:L:723:U:H2'	4:L:724:U:H6	1.66	0.52
5:M:353:U:O2'	5:M:354:U:H5'	2.10	0.52
5:M:399:U:O2	5:M:400:U:C6	2.62	0.52
5:M:436:U:C2	5:M:437:U:C5	2.98	0.52
6:N:332:U:C2'	6:N:333:U:H6	2.20	0.52
6:N:398:U:C2	6:N:399:U:C6	2.97	0.52
6:N:441:U:C4	6:N:442:U:C5	2.98	0.52
6:N:451:U:N3	6:N:452:U:C4	2.76	0.52
6:N:484:U:H2'	6:N:485:U:C6	2.45	0.52
6:N:492:U:H2'	6:N:493:U:C6	2.41	0.52
1:I:22:A:H2'	1:I:23:A:C8	2.45	0.52
1:I:31:A:N1	1:I:32:A:C6	2.77	0.52
1:I:52:A:C4	1:I:53:A:C8	2.97	0.52
1:I:66:A:C2	4:L:760:U:C2	2.97	0.52
1:I:104:A:C2	4:L:722:U:O2	2.62	0.52
1:I:131:A:C4	1:I:132:A:C8	2.97	0.52
1:I:164:A:O2'	1:I:165:A:H5'	2.09	0.52
1:I:186:A:C2'	1:I:187:A:O5'	2.47	0.52
1:I:219:A:N3	1:I:220:A:C8	2.78	0.52
1:I:220:A:C2	1:I:221:A:N7	2.78	0.52
1:I:262:A:H2'	1:I:263:A:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:296:A:C2'	1:I:297:A:O4'	2.53	0.52
1:I:318:A:C2	1:I:319:A:C4	2.98	0.52
1:I:318:A:N3	1:I:319:A:C8	2.78	0.52
2:J:43:A:O2'	2:J:44:A:C4'	2.57	0.52
2:J:73:A:C2	2:J:74:A:N7	2.78	0.52
2:J:128:A:C6	2:J:129:A:N7	2.77	0.52
3:K:62:A:C6	3:K:63:A:C6	2.98	0.52
3:K:91:A:C4	3:K:92:A:N7	2.78	0.52
3:K:108:A:C4	3:K:109:A:N7	2.78	0.52
3:K:128:A:C4	3:K:129:A:N7	2.78	0.52
3:K:137:A:H2'	3:K:138:A:C5'	2.40	0.52
3:K:147:A:O2'	3:K:148:A:H5'	2.10	0.52
3:K:241:A:HO3'	3:K:242:A:P	2.30	0.52
4:L:440:U:C3'	4:L:441:U:P	2.93	0.52
4:L:449:U:O2'	4:L:450:U:C5'	2.45	0.52
4:L:525:U:C2'	4:L:526:U:O5'	2.58	0.52
4:L:545:U:C2	4:L:546:U:C6	2.98	0.52
4:L:555:U:C2	4:L:556:U:C6	2.97	0.52
4:L:637:U:O4	4:L:638:U:O4	2.28	0.52
4:L:655:U:H2'	4:L:656:U:O5'	2.08	0.52
4:L:721:U:O2	4:L:722:U:N1	2.42	0.52
4:L:754:U:H2'	4:L:755:U:C5'	2.33	0.52
4:L:793:U:O4	4:L:794:U:O4	2.28	0.52
5:M:320:U:C2'	5:M:321:U:H5'	2.39	0.52
5:M:347:U:H2'	5:M:348:U:C4'	2.39	0.52
5:M:382:U:H2'	5:M:383:U:O5'	2.10	0.52
5:M:403:U:N3	5:M:404:U:C5	2.77	0.52
6:N:278:U:C2	6:N:279:U:C6	2.98	0.52
6:N:375:U:C2	6:N:376:U:C6	2.97	0.52
6:N:403:U:C2	6:N:404:U:C5	2.98	0.52
6:N:413:U:C2'	6:N:414:U:C5'	2.87	0.52
6:N:466:U:C2'	6:N:467:U:H5'	2.38	0.52
1:I:56:A:H2'	1:I:57:A:H8	1.75	0.52
1:I:75:A:N1	1:I:76:A:C5	2.78	0.52
1:I:80:A:C4	1:I:81:A:C8	2.98	0.52
1:I:81:A:C4	1:I:82:A:C8	2.98	0.52
1:I:203:A:C4	1:I:204:A:C8	2.97	0.52
1:I:234:A:N3	1:I:235:A:C8	2.78	0.52
1:I:282:A:H2'	1:I:283:A:H8	1.75	0.52
1:I:307:A:N3	1:I:308:A:C8	2.78	0.52
1:I:329:A:C6	1:I:330:A:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:58:A:N6	5:M:496:U:O4	2.42	0.52
2:J:70:A:H2'	2:J:71:A:C4'	2.38	0.52
2:J:85:A:O2'	2:J:86:A:P	2.66	0.52
2:J:93:A:N1	2:J:94:A:C5	2.78	0.52
2:J:100:A:C2	2:J:101:A:C8	2.97	0.52
2:J:100:A:C2	2:J:101:A:N9	2.78	0.52
2:J:130:A:C2'	2:J:131:A:O4'	2.58	0.52
2:J:135:A:C4	2:J:136:A:N7	2.78	0.52
2:J:140:A:HO2'	2:J:141:A:H5'	1.69	0.52
2:J:152:A:C2'	2:J:153:A:C5'	2.88	0.52
2:J:183:A:H2'	2:J:184:A:O4'	2.08	0.52
2:J:203:A:H2'	2:J:204:A:C8	2.42	0.52
2:J:233:A:C2	2:J:234:A:C5	2.98	0.52
3:K:118:A:N1	3:K:119:A:C5	2.78	0.52
3:K:120:A:C2	3:K:121:A:C8	2.98	0.52
4:L:510:U:H2'	4:L:511:U:C5'	2.34	0.52
4:L:586:U:C6	4:L:587:U:H5	2.28	0.52
4:L:681:U:C2'	4:L:682:U:O4'	2.57	0.52
4:L:703:U:C4	4:L:704:U:C4	2.98	0.52
4:L:762:U:O2'	4:L:763:U:P	2.66	0.52
4:L:765:U:C2'	4:L:766:U:O4'	2.52	0.52
5:M:287:U:H2'	5:M:288:U:O4'	2.10	0.52
5:M:337:U:O2	5:M:338:U:O4'	2.27	0.52
5:M:372:U:C4	5:M:373:U:C5	2.97	0.52
5:M:401:U:C2	5:M:402:U:C5	2.98	0.52
5:M:401:U:H2'	5:M:402:U:H6	1.74	0.52
5:M:460:U:C6	5:M:461:U:C5	2.98	0.52
5:M:473:U:C2	5:M:474:U:C5	2.98	0.52
5:M:504:U:C4	5:M:505:U:C5	2.98	0.52
5:M:539:U:N3	5:M:540:U:C5	2.78	0.52
6:N:424:U:C4	6:N:425:U:O4	2.63	0.52
6:N:427:U:H2'	6:N:428:U:C6	2.36	0.52
6:N:485:U:H2'	6:N:486:U:C4'	2.31	0.52
1:I:164:A:C4	1:I:165:A:N7	2.77	0.52
1:I:190:A:C2	1:I:191:A:C8	2.98	0.52
1:I:240:A:N1	1:I:241:A:C6	2.78	0.52
1:I:243:A:O5'	1:I:244:A:OP2	2.28	0.52
1:I:300:A:C2	1:I:301:A:N7	2.78	0.52
1:I:341:A:HO2'	1:I:342:A:H5'	1.67	0.52
1:I:343:A:H2'	1:I:344:A:H5'	1.90	0.52
2:J:26:A:N1	2:J:27:A:C5	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:43:A:N3	2:J:44:A:C8	2.78	0.52
2:J:90:A:N3	2:J:91:A:C8	2.78	0.52
2:J:184:A:C2	2:J:185:A:N7	2.78	0.52
2:J:188:A:O2'	2:J:189:A:P	2.66	0.52
2:J:195:A:C2'	2:J:196:A:H5'	2.40	0.52
2:J:209:A:C4	2:J:210:A:C8	2.98	0.52
2:J:229:A:C3'	2:J:230:A:H5'	2.04	0.52
3:K:72:A:O2'	3:K:73:A:H5'	2.10	0.52
3:K:213:A:C2'	3:K:214:A:O4'	2.58	0.52
3:K:241:A:H3'	3:K:242:A:P	2.49	0.52
4:L:513:U:H2'	4:L:514:U:C5'	2.39	0.52
4:L:550:U:H2'	4:L:551:U:H6	1.75	0.52
4:L:555:U:O2	4:L:556:U:C6	2.63	0.52
4:L:597:U:H2'	4:L:598:U:C5'	2.38	0.52
4:L:625:U:O2	4:L:626:U:C6	2.63	0.52
4:L:638:U:N3	4:L:639:U:C5	2.78	0.52
4:L:647:U:H2'	4:L:648:U:C5'	2.37	0.52
4:L:695:U:C2	4:L:696:U:C5	2.98	0.52
5:M:322:U:H2'	5:M:323:U:C4'	2.40	0.52
5:M:333:U:N3	5:M:334:U:C5	2.78	0.52
5:M:450:U:C2	5:M:451:U:C6	2.97	0.52
5:M:516:U:H2'	5:M:517:U:C6	2.44	0.52
6:N:454:U:O2'	6:N:455:U:C4'	2.58	0.52
6:N:461:U:H2'	6:N:462:U:C6	2.45	0.52
6:N:468:U:N3	6:N:469:U:O4	2.43	0.52
1:I:4:A:O2'	1:I:5:A:P	2.67	0.51
1:I:40:A:C2	1:I:41:A:C5	2.99	0.51
1:I:159:A:C2	1:I:160:A:N7	2.78	0.51
1:I:181:A:C2	4:L:645:U:O2	2.62	0.51
1:I:244:A:H2'	1:I:245:A:O5'	2.09	0.51
1:I:261:A:N1	1:I:262:A:C5	2.78	0.51
1:I:314:A:C2	1:I:315:A:C4	2.98	0.51
1:I:330:A:H2'	1:I:331:A:O4'	2.09	0.51
2:J:97:A:O2'	2:J:98:A:H5'	2.11	0.51
2:J:104:A:C2'	2:J:105:A:C5'	2.88	0.51
2:J:129:A:C6	2:J:130:A:C5	2.98	0.51
2:J:157:A:H2'	2:J:158:A:H8	1.75	0.51
3:K:43:A:C4	3:K:44:A:N7	2.78	0.51
3:K:56:A:H2'	3:K:57:A:C8	2.44	0.51
3:K:127:A:C4	3:K:128:A:C8	2.98	0.51
3:K:128:A:O2'	3:K:129:A:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:203:A:C2'	3:K:204:A:C8	2.87	0.51
4:L:628:U:C2	4:L:629:U:C5	2.97	0.51
4:L:634:U:C2	4:L:635:U:C5	2.98	0.51
4:L:743:U:H2'	4:L:744:U:H6	1.75	0.51
4:L:750:U:N3	4:L:751:U:C4	2.78	0.51
4:L:816:U:C4	4:L:817:U:C4	2.98	0.51
5:M:322:U:O2'	5:M:323:U:O4'	2.27	0.51
5:M:418:U:N3	5:M:419:U:C4	2.78	0.51
5:M:504:U:H2'	5:M:505:U:C6	2.39	0.51
5:M:511:U:C2	5:M:512:U:C5	2.98	0.51
6:N:405:U:C2	6:N:406:U:C6	2.98	0.51
6:N:407:U:C2	6:N:408:U:C6	2.98	0.51
6:N:471:U:H2'	6:N:472:U:C6	2.44	0.51
1:I:50:A:N6	1:I:51:A:N6	2.59	0.51
1:I:126:A:C2'	1:I:127:A:C5'	2.89	0.51
1:I:145:A:HO3'	1:I:146:A:P	2.28	0.51
1:I:182:A:N3	1:I:183:A:C8	2.79	0.51
1:I:221:A:C2	1:I:222:A:C8	2.98	0.51
1:I:249:A:C2'	1:I:250:A:O4'	2.58	0.51
1:I:251:A:C6	1:I:252:A:C5	2.98	0.51
1:I:265:A:C6	1:I:266:A:C6	2.97	0.51
1:I:317:A:H2'	1:I:318:A:H8	1.75	0.51
1:I:361:A:H2'	1:I:362:A:H8	1.75	0.51
1:I:387:A:C4	1:I:388:A:C8	2.98	0.51
2:J:21:A:H2'	2:J:22:A:C5'	2.41	0.51
2:J:21:A:N3	2:J:22:A:C8	2.78	0.51
2:J:65:A:N6	2:J:66:A:N6	2.58	0.51
2:J:72:A:C2'	2:J:73:A:O5'	2.58	0.51
2:J:75:A:H2'	2:J:76:A:O5'	2.09	0.51
2:J:146:A:C2'	2:J:147:A:H5'	2.39	0.51
2:J:159:A:C2'	2:J:160:A:C8	2.89	0.51
2:J:177:A:H2'	2:J:178:A:H8	1.76	0.51
2:J:179:A:C2	2:J:180:A:C5	2.98	0.51
2:J:193:A:C4	2:J:194:A:C8	2.97	0.51
2:J:247:A:C4	2:J:248:A:C8	2.97	0.51
3:K:49:A:C2	3:K:50:A:N9	2.77	0.51
3:K:63:A:N3	3:K:64:A:C8	2.77	0.51
3:K:121:A:H61	3:K:122:A:N6	2.07	0.51
3:K:209:A:H2'	3:K:210:A:H8	1.71	0.51
3:K:238:A:C6	3:K:239:A:N6	2.78	0.51
4:L:418:U:C2	4:L:419:U:C5	2.97	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:450:U:H2'	4:L:451:U:H6	1.76	0.51
4:L:494:U:H2'	4:L:495:U:H6	1.75	0.51
4:L:502:U:N3	4:L:503:U:C4	2.79	0.51
4:L:503:U:N3	4:L:504:U:C5	2.79	0.51
4:L:564:U:H2'	4:L:565:U:C5'	2.41	0.51
4:L:615:U:C2	4:L:616:U:C6	2.98	0.51
4:L:660:U:O2'	4:L:661:U:O4'	2.28	0.51
5:M:306:U:C2	5:M:307:U:C6	2.99	0.51
5:M:372:U:C2'	5:M:373:U:C5'	2.88	0.51
5:M:505:U:HO2'	5:M:506:U:C5'	2.00	0.51
5:M:530:U:C2'	5:M:531:U:C4'	2.85	0.51
6:N:335:U:H2'	6:N:336:U:H6	1.76	0.51
6:N:474:U:H2'	6:N:475:U:C5'	2.37	0.51
1:I:22:A:C4	1:I:23:A:C8	2.98	0.51
1:I:42:A:C2	1:I:43:A:N9	2.79	0.51
1:I:60:A:C4	1:I:61:A:N7	2.79	0.51
1:I:116:A:C2'	1:I:117:A:O5'	2.57	0.51
1:I:188:A:H2'	1:I:189:A:H8	1.76	0.51
1:I:222:A:H2'	1:I:223:A:C5'	2.39	0.51
1:I:227:A:C2	1:I:228:A:C5	2.98	0.51
1:I:250:A:C4	1:I:251:A:C5	2.98	0.51
1:I:251:A:C2	1:I:252:A:C5	2.98	0.51
1:I:313:A:C5	1:I:314:A:N7	2.79	0.51
2:J:17:A:H2'	2:J:18:A:C8	2.44	0.51
2:J:26:A:C2	2:J:27:A:N9	2.79	0.51
2:J:67:A:C2'	2:J:68:A:O5'	2.57	0.51
2:J:113:A:C2'	2:J:114:A:H5'	2.40	0.51
2:J:235:A:H2'	2:J:236:A:O5'	2.09	0.51
2:J:257:A:C4	2:J:258:A:C8	2.98	0.51
3:K:114:A:C2	3:K:115:A:N9	2.77	0.51
4:L:456:U:C2	4:L:457:U:C5	2.98	0.51
4:L:517:U:H2'	4:L:518:U:C4'	2.40	0.51
4:L:529:U:C2	4:L:530:U:C6	2.98	0.51
4:L:590:U:H2'	4:L:591:U:C5'	2.40	0.51
4:L:611:U:N3	4:L:612:U:C4	2.79	0.51
4:L:617:U:O2'	4:L:618:U:C5'	2.45	0.51
4:L:634:U:H2'	4:L:635:U:C6	2.43	0.51
4:L:659:U:N3	4:L:660:U:C4	2.79	0.51
4:L:699:U:H2'	4:L:700:U:O4'	2.10	0.51
4:L:758:U:O2'	4:L:759:U:C5'	2.49	0.51
4:L:764:U:C2'	4:L:765:U:H5'	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:289:U:N3	5:M:290:U:C5	2.78	0.51
5:M:336:U:N3	5:M:337:U:C4	2.72	0.51
5:M:379:U:C2	5:M:380:U:C5	2.98	0.51
5:M:380:U:C2	5:M:381:U:C5	2.98	0.51
5:M:399:U:C2	5:M:400:U:C6	2.98	0.51
5:M:423:U:O2	5:M:424:U:C6	2.64	0.51
5:M:518:U:N3	5:M:519:U:C5	2.79	0.51
6:N:327:U:C2'	6:N:328:U:H6	2.22	0.51
6:N:424:U:O2'	6:N:425:U:O4'	2.26	0.51
6:N:431:U:C2'	6:N:432:U:O4'	2.57	0.51
6:N:441:U:C2'	6:N:442:U:H5'	2.41	0.51
6:N:453:U:C2'	6:N:454:U:C5'	2.88	0.51
6:N:470:U:H2'	6:N:471:U:C6	2.45	0.51
1:I:3:A:H2'	1:I:4:A:H8	1.75	0.51
1:I:21:A:C2'	1:I:22:A:H5'	2.40	0.51
1:I:42:A:HO2'	1:I:43:A:H5'	1.70	0.51
1:I:107:A:N1	1:I:108:A:C6	2.72	0.51
1:I:225:A:C6	1:I:226:A:C6	2.99	0.51
1:I:230:A:O2'	1:I:231:A:C4'	2.57	0.51
1:I:230:A:H2'	1:I:231:A:C4'	2.40	0.51
1:I:260:A:C2	1:I:261:A:C5	2.99	0.51
1:I:263:A:C4	1:I:264:A:C8	2.99	0.51
1:I:296:A:C2	1:I:297:A:C4	2.98	0.51
1:I:329:A:H2'	1:I:330:A:H8	1.74	0.51
1:I:341:A:N1	1:I:342:A:C5	2.78	0.51
2:J:28:A:O2'	2:J:29:A:H5'	2.11	0.51
2:J:33:A:H2'	2:J:34:A:H8	1.75	0.51
2:J:80:A:H2'	2:J:81:A:H8	1.75	0.51
2:J:99:A:C2'	2:J:100:A:H5'	2.41	0.51
2:J:176:A:C2'	2:J:177:A:O5'	2.56	0.51
2:J:255:A:C2	2:J:256:A:C8	2.99	0.51
3:K:81:A:C2	3:K:82:A:C5	2.98	0.51
3:K:108:A:H2'	3:K:109:A:O4'	2.09	0.51
3:K:180:A:C6	3:K:181:A:N6	2.78	0.51
4:L:473:U:C2	4:L:474:U:C5	2.98	0.51
4:L:498:U:H2'	4:L:499:U:C4'	2.40	0.51
4:L:510:U:C2	4:L:511:U:C6	2.98	0.51
4:L:555:U:N3	4:L:556:U:C5	2.79	0.51
4:L:577:U:H2'	4:L:578:U:C6	2.43	0.51
4:L:647:U:C2	4:L:648:U:C6	2.98	0.51
4:L:657:U:O2'	4:L:658:U:C5'	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:772:U:C2'	4:L:773:U:H5'	2.41	0.51
4:L:797:U:H2'	4:L:798:U:O5'	2.11	0.51
5:M:285:U:C2	5:M:286:U:C5	2.98	0.51
5:M:355:U:C2'	5:M:356:U:C5'	2.87	0.51
5:M:489:U:C2'	5:M:490:U:C4'	2.88	0.51
6:N:449:U:H2'	6:N:450:U:O5'	2.10	0.51
6:N:505:U:O2'	6:N:506:U:H5'	2.10	0.51
1:I:66:A:C2'	1:I:67:A:O4'	2.54	0.51
1:I:80:A:N3	1:I:81:A:C8	2.79	0.51
1:I:112:A:C2'	1:I:113:A:H5'	2.39	0.51
1:I:134:A:C6	1:I:135:A:C6	2.82	0.51
1:I:229:A:C2'	1:I:230:A:O4'	2.59	0.51
1:I:275:A:N3	1:I:276:A:C8	2.79	0.51
1:I:295:A:H2'	1:I:296:A:O5'	2.10	0.51
1:I:299:A:H2'	1:I:300:A:C5'	2.41	0.51
1:I:328:A:C4	1:I:329:A:C8	2.99	0.51
1:I:341:A:O2'	1:I:342:A:C5'	2.34	0.51
1:I:358:A:N1	1:I:359:A:C5	2.78	0.51
2:J:14:A:N6	2:J:15:A:N6	2.59	0.51
2:J:48:A:C2	2:J:49:A:C5	2.98	0.51
2:J:72:A:C6	2:J:73:A:C5	2.98	0.51
3:K:74:A:C2'	3:K:75:A:H5'	2.40	0.51
3:K:81:A:H2'	3:K:82:A:C8	2.43	0.51
4:L:517:U:C2	4:L:518:U:C5	2.97	0.51
4:L:524:U:H2'	4:L:525:U:H6	1.75	0.51
4:L:549:U:C4	4:L:550:U:C5	2.98	0.51
4:L:666:U:N3	4:L:667:U:C4	2.79	0.51
4:L:696:U:N3	4:L:697:U:C5	2.78	0.51
4:L:743:U:H2'	4:L:744:U:C5'	2.36	0.51
4:L:780:U:O2	4:L:781:U:C6	2.63	0.51
4:L:801:U:H2'	4:L:802:U:C6	2.42	0.51
5:M:317:U:O2'	5:M:318:U:H5'	2.10	0.51
5:M:318:U:C2'	5:M:319:U:O4'	2.56	0.51
5:M:371:U:N3	5:M:372:U:C5	2.79	0.51
5:M:420:U:C2'	5:M:421:U:O5'	2.58	0.51
5:M:425:U:C2	5:M:426:U:C6	2.99	0.51
5:M:486:U:O2	5:M:487:U:C6	2.63	0.51
5:M:518:U:C2'	5:M:519:U:O5'	2.54	0.51
6:N:329:U:C2'	6:N:330:U:H6	2.18	0.51
6:N:338:U:N3	6:N:339:U:O4	2.41	0.51
6:N:393:U:H2'	6:N:394:U:H6	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:398:U:C2'	6:N:399:U:O5'	2.57	0.51
6:N:419:U:C2	6:N:420:U:C6	2.98	0.51
6:N:425:U:C1'	6:N:426:U:C6	2.93	0.51
1:I:4:A:N3	1:I:5:A:C8	2.78	0.51
1:I:80:A:N1	1:I:81:A:C5	2.79	0.51
1:I:90:A:C2'	1:I:91:A:O5'	2.56	0.51
1:I:138:A:O2'	1:I:139:A:C4'	2.59	0.51
1:I:159:A:O2'	1:I:160:A:H5'	2.10	0.51
1:I:207:A:C2	1:I:208:A:C4	2.99	0.51
1:I:266:A:N1	1:I:267:A:C4	2.76	0.51
1:I:266:A:N1	1:I:267:A:C5	2.79	0.51
1:I:287:A:C2'	1:I:288:A:O5'	2.58	0.51
1:I:361:A:C2	1:I:362:A:C4	2.98	0.51
2:J:33:A:N1	2:J:34:A:C5	2.78	0.51
2:J:33:A:C2	2:J:34:A:C5	2.98	0.51
2:J:57:A:H2'	2:J:58:A:O5'	2.09	0.51
2:J:61:A:O2'	2:J:62:A:C5'	2.59	0.51
2:J:119:A:H2'	2:J:120:A:C8	2.45	0.51
3:K:97:A:C5	3:K:98:A:C8	2.97	0.51
3:K:106:A:O2'	3:K:107:A:O4'	2.28	0.51
3:K:118:A:N3	3:K:119:A:C1'	2.73	0.51
3:K:160:A:H2'	3:K:161:A:H8	1.76	0.51
4:L:525:U:H2'	4:L:526:U:C6	2.44	0.51
4:L:581:U:C4	4:L:582:U:C4	2.99	0.51
4:L:737:U:O2'	4:L:738:U:P	2.64	0.51
4:L:744:U:O2'	4:L:745:U:H5'	2.10	0.51
4:L:758:U:O2	4:L:759:U:C6	2.62	0.51
4:L:764:U:C6	4:L:765:U:C5	2.99	0.51
4:L:816:U:C4	4:L:817:U:C5	2.98	0.51
5:M:300:U:C2	5:M:301:U:C6	2.98	0.51
5:M:414:U:C4	5:M:415:U:O4	2.63	0.51
5:M:429:U:C2'	5:M:430:U:O4'	2.58	0.51
5:M:434:U:C4	5:M:435:U:C5	2.98	0.51
5:M:488:U:H2'	5:M:489:U:C1'	2.37	0.51
6:N:321:U:C6	6:N:322:U:H5	2.28	0.51
6:N:327:U:O2'	6:N:328:U:O4'	2.28	0.51
6:N:332:U:N3	6:N:333:U:C4	2.78	0.51
6:N:381:U:C2	6:N:382:U:C5	2.98	0.51
6:N:405:U:C2'	6:N:406:U:O5'	2.59	0.51
6:N:407:U:N3	6:N:408:U:C5	2.79	0.51
6:N:465:U:N3	6:N:466:U:C4	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:83:A:C4	1:I:84:A:C8	2.99	0.51
1:I:101:A:N3	1:I:102:A:C8	2.75	0.51
1:I:272:A:N6	1:I:273:A:H61	1.99	0.51
2:J:14:A:C6	2:J:15:A:N7	2.79	0.51
2:J:44:A:N1	2:J:45:A:C5	2.79	0.51
2:J:96:A:C5	2:J:97:A:N7	2.79	0.51
2:J:96:A:H2'	2:J:97:A:H8	1.75	0.51
2:J:98:A:C4	2:J:99:A:C8	2.97	0.51
2:J:159:A:C6	2:J:160:A:C5	2.98	0.51
2:J:204:A:C4	2:J:205:A:C5	2.97	0.51
3:K:90:A:C2	3:K:91:A:N9	2.78	0.51
3:K:117:A:O2'	3:K:118:A:O5'	2.28	0.51
3:K:119:A:N1	3:K:120:A:C5	2.78	0.51
4:L:426:U:H2'	4:L:427:U:C6	2.44	0.51
4:L:435:U:O2'	4:L:436:U:O4'	2.27	0.51
4:L:451:U:C2	4:L:452:U:C5	2.99	0.51
4:L:559:U:C4	4:L:560:U:C5	2.98	0.51
4:L:589:U:C2'	4:L:590:U:C5'	2.88	0.51
4:L:615:U:N3	4:L:616:U:C5	2.78	0.51
4:L:666:U:C4	4:L:667:U:C4	2.99	0.51
5:M:399:U:C2'	5:M:400:U:O5'	2.58	0.51
5:M:470:U:C2	5:M:471:U:C5	2.99	0.51
5:M:484:U:C4	5:M:485:U:C5	2.98	0.51
5:M:509:U:O2	5:M:510:U:C6	2.63	0.51
5:M:512:U:C4	5:M:513:U:C4	2.98	0.51
6:N:360:U:H2'	6:N:361:U:H6	1.75	0.51
6:N:362:U:C2'	6:N:363:U:O5'	2.58	0.51
6:N:411:U:C2	6:N:412:U:C5	2.98	0.51
6:N:519:U:C3'	6:N:520:U:P	2.96	0.51
1:I:20:A:C2	1:I:21:A:C4	2.99	0.51
1:I:25:A:N1	1:I:26:A:C5	2.79	0.51
1:I:26:A:C6	1:I:27:A:C5	2.99	0.51
1:I:120:A:C2	1:I:121:A:C5	2.99	0.51
1:I:122:A:H2'	1:I:123:A:H8	1.76	0.51
1:I:136:A:N3	1:I:137:A:C1'	2.73	0.51
1:I:165:A:C6	1:I:166:A:N6	2.78	0.51
1:I:310:A:C5	1:I:311:A:N7	2.78	0.51
1:I:404:A:C4	1:I:405:A:N7	2.78	0.51
1:I:405:A:C6	1:I:406:A:C5	2.99	0.51
1:I:411:A:H2'	1:I:412:A:H8	1.75	0.51
2:J:12:A:N1	2:J:13:A:C5	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:46:A:C6	2:J:47:A:N7	2.79	0.51
2:J:145:A:N1	2:J:146:A:C5	2.78	0.51
2:J:151:A:C2'	2:J:152:A:C5'	2.88	0.51
2:J:167:A:O2'	2:J:168:A:H5'	2.11	0.51
2:J:174:A:C4	2:J:175:A:C8	2.99	0.51
2:J:180:A:N3	2:J:181:A:C8	2.78	0.51
2:J:185:A:H2'	2:J:186:A:H8	1.76	0.51
2:J:218:A:N1	2:J:219:A:C5	2.79	0.51
3:K:42:A:H2'	3:K:43:A:H8	1.76	0.51
3:K:62:A:C6	3:K:63:A:C5	2.99	0.51
3:K:71:A:C2	3:K:72:A:C8	2.97	0.51
3:K:122:A:C2	3:K:123:A:C8	2.99	0.51
3:K:135:A:N1	3:K:136:A:C5	2.78	0.51
3:K:253:A:N3	3:K:254:A:C8	2.79	0.51
4:L:451:U:H3'	4:L:452:U:P	2.46	0.51
4:L:578:U:H2'	4:L:579:U:O5'	2.11	0.51
4:L:587:U:H2'	4:L:588:U:C5'	2.37	0.51
4:L:602:U:H2'	4:L:603:U:C6	2.37	0.51
4:L:629:U:C2'	4:L:630:U:C5'	2.89	0.51
4:L:629:U:H2'	4:L:630:U:O5'	2.09	0.51
4:L:719:U:H2'	4:L:720:U:C5	2.45	0.51
4:L:733:U:O2	4:L:734:U:C6	2.64	0.51
4:L:769:U:N3	4:L:770:U:C5	2.79	0.51
4:L:784:U:C2	4:L:785:U:C5	2.98	0.51
5:M:386:U:O2'	5:M:387:U:H5'	2.10	0.51
5:M:396:U:C2'	5:M:397:U:O4'	2.57	0.51
5:M:405:U:O2'	5:M:406:U:O4'	2.26	0.51
6:N:363:U:N3	6:N:364:U:C4	2.78	0.51
6:N:424:U:N1	6:N:425:U:C5	2.79	0.51
6:N:480:U:H2'	6:N:481:U:H6	1.74	0.51
1:I:36:A:O2'	1:I:37:A:H5'	2.11	0.51
1:I:72:A:N6	1:I:73:A:N6	2.58	0.51
1:I:112:A:O2'	1:I:113:A:C4'	2.59	0.51
1:I:128:A:N6	1:I:129:A:C6	2.78	0.51
1:I:176:A:C6	1:I:177:A:N6	2.79	0.51
1:I:241:A:C6	1:I:242:A:C6	2.99	0.51
1:I:263:A:O2'	1:I:264:A:C5'	2.50	0.51
1:I:282:A:N1	1:I:283:A:C6	2.79	0.51
1:I:337:A:C2	1:I:338:A:N9	2.79	0.51
2:J:24:A:C2	2:J:25:A:C5	2.99	0.51
2:J:30:A:H2'	2:J:31:A:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:34:A:H2'	2:J:35:A:O5'	2.10	0.51
2:J:96:A:C2'	2:J:97:A:H5'	2.40	0.51
2:J:120:A:C2'	2:J:121:A:H5'	2.34	0.51
2:J:133:A:H2'	2:J:134:A:C5'	2.40	0.51
3:K:38:A:C2	3:K:39:A:N7	2.78	0.51
3:K:70:A:C4	3:K:71:A:C8	2.99	0.51
3:K:82:A:C2	3:K:83:A:C5	2.99	0.51
3:K:109:A:C2'	3:K:110:A:C5'	2.88	0.51
4:L:463:U:H2'	4:L:464:U:O4'	2.10	0.51
4:L:568:U:H2'	4:L:569:U:H6	1.76	0.51
4:L:626:U:H2'	4:L:627:U:H6	1.75	0.51
4:L:671:U:C2	4:L:672:U:C6	2.99	0.51
4:L:672:U:C2	4:L:673:U:C6	2.98	0.51
4:L:717:U:N1	4:L:718:U:C5	2.79	0.51
4:L:723:U:C5	4:L:724:U:O4	2.60	0.51
4:L:748:U:H2'	4:L:749:U:H6	1.76	0.51
5:M:362:U:C4	5:M:363:U:O4	2.63	0.51
5:M:470:U:H2'	5:M:471:U:H6	1.75	0.51
5:M:526:U:C2	5:M:527:U:C5	2.99	0.51
5:M:536:U:C2	5:M:537:U:C6	2.99	0.51
6:N:286:U:O2'	6:N:287:U:H5'	2.10	0.51
6:N:320:U:HO2'	6:N:321:U:C4'	2.24	0.51
6:N:363:U:H2'	6:N:364:U:H6	1.75	0.51
6:N:394:U:H2'	6:N:395:U:H6	1.74	0.51
6:N:426:U:O2	6:N:427:U:N1	2.44	0.51
6:N:484:U:H2'	6:N:485:U:H6	1.75	0.51
1:I:21:A:N6	1:I:22:A:N6	2.59	0.51
1:I:74:A:H2'	1:I:75:A:C5'	2.15	0.51
1:I:105:A:H2'	1:I:106:A:C8	2.46	0.51
1:I:167:A:C2'	1:I:168:A:C5'	2.89	0.51
1:I:212:A:C2	1:I:213:A:C5	2.99	0.51
1:I:222:A:C2	1:I:223:A:C5	2.99	0.51
1:I:240:A:H2'	1:I:241:A:C8	2.38	0.51
1:I:248:A:C2	1:I:249:A:N7	2.78	0.51
1:I:260:A:C2	1:I:261:A:N9	2.79	0.51
1:I:353:A:C2'	1:I:354:A:C4'	2.89	0.51
2:J:8:A:H2'	2:J:9:A:O4'	2.11	0.51
2:J:13:A:O2'	2:J:14:A:P	2.61	0.51
2:J:59:A:C2	2:J:60:A:C8	2.99	0.51
2:J:120:A:C2'	2:J:121:A:C5'	2.88	0.51
2:J:208:A:O2'	2:J:209:A:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:229:A:N3	2:J:230:A:C8	2.79	0.51
3:K:82:A:N3	3:K:83:A:C8	2.79	0.51
3:K:101:A:C6	3:K:102:A:C6	2.99	0.51
3:K:113:A:C2'	3:K:114:A:C5'	2.88	0.51
4:L:530:U:H2'	4:L:531:U:C5'	2.40	0.51
4:L:542:U:O2'	4:L:543:U:H5'	2.10	0.51
4:L:562:U:C2	4:L:563:U:C6	2.99	0.51
4:L:618:U:C2'	4:L:619:U:C5'	2.89	0.51
4:L:658:U:H2'	4:L:659:U:C5'	2.40	0.51
4:L:698:U:C2'	4:L:699:U:O5'	2.59	0.51
4:L:802:U:H2'	4:L:803:U:O4'	2.11	0.51
5:M:353:U:C2	5:M:354:U:C6	2.98	0.51
5:M:372:U:H2'	5:M:373:U:C5'	2.40	0.51
5:M:464:U:O2'	5:M:465:U:P	2.60	0.51
5:M:476:U:H2'	5:M:477:U:H6	1.75	0.51
6:N:332:U:C4	6:N:333:U:C4	2.99	0.51
6:N:375:U:C4	6:N:376:U:O4	2.64	0.51
1:I:53:A:C2'	1:I:54:A:O5'	2.55	0.50
1:I:84:A:H2'	1:I:85:A:H8	1.77	0.50
1:I:197:A:C2	1:I:198:A:C4	2.99	0.50
1:I:281:A:H2'	1:I:282:A:H8	1.76	0.50
1:I:291:A:H2'	1:I:292:A:O5'	2.11	0.50
2:J:8:A:C2'	2:J:9:A:O4'	2.58	0.50
2:J:12:A:C6	2:J:13:A:C5	2.99	0.50
2:J:18:A:H2'	2:J:19:A:C8	2.44	0.50
2:J:25:A:H2'	2:J:26:A:H8	1.76	0.50
2:J:38:A:C2	2:J:39:A:C4	2.99	0.50
2:J:64:A:N3	2:J:65:A:C8	2.79	0.50
3:K:91:A:H2'	3:K:92:A:C8	2.43	0.50
3:K:217:A:N6	3:K:218:A:H62	2.09	0.50
4:L:470:U:C2	4:L:471:U:C5	2.99	0.50
4:L:544:U:H2'	4:L:545:U:C6	2.46	0.50
4:L:574:U:C6	4:L:575:U:H5	2.30	0.50
4:L:605:U:H2'	4:L:606:U:C5'	2.41	0.50
4:L:640:U:N3	4:L:641:U:O4	2.44	0.50
4:L:723:U:H3'	4:L:724:U:H6	1.76	0.50
5:M:333:U:O2	5:M:334:U:C6	2.64	0.50
5:M:363:U:H2'	5:M:364:U:C6	2.46	0.50
5:M:410:U:C5	5:M:411:U:C5	2.99	0.50
5:M:420:U:O2'	5:M:421:U:C4'	2.58	0.50
5:M:432:U:H2'	5:M:433:U:C5'	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:484:U:C2	5:M:485:U:C6	2.99	0.50
5:M:518:U:H2'	5:M:519:U:H6	1.76	0.50
6:N:340:U:H2'	6:N:341:U:C6	2.46	0.50
6:N:350:U:H2'	6:N:351:U:C6	2.46	0.50
6:N:430:U:O2	6:N:431:U:C6	2.64	0.50
1:I:9:A:C2	1:I:10:A:C5	2.99	0.50
1:I:27:A:N3	1:I:28:A:C8	2.79	0.50
1:I:77:A:C2'	1:I:78:A:C5'	2.89	0.50
1:I:222:A:C2	1:I:223:A:C4	2.99	0.50
1:I:265:A:N1	1:I:266:A:C5	2.79	0.50
1:I:326:A:C2	1:I:327:A:C4	2.99	0.50
1:I:327:A:O2'	1:I:328:A:C5'	2.52	0.50
2:J:35:A:N3	2:J:36:A:C8	2.80	0.50
2:J:190:A:C6	2:J:191:A:N6	2.78	0.50
2:J:210:A:H2'	2:J:211:A:C4'	2.41	0.50
3:K:19:A:C3'	3:K:20:A:P	2.94	0.50
3:K:108:A:C6	3:K:109:A:N7	2.78	0.50
3:K:120:A:C6	3:K:121:A:C8	2.94	0.50
3:K:143:A:H2'	3:K:144:A:H8	1.76	0.50
3:K:254:A:H2'	3:K:255:A:C5'	2.40	0.50
4:L:413:U:H2'	4:L:414:U:C6	2.46	0.50
4:L:434:U:H2'	4:L:435:U:O4'	2.11	0.50
4:L:584:U:N3	4:L:585:U:C5	2.79	0.50
4:L:622:U:H2'	4:L:623:U:O4'	2.11	0.50
4:L:723:U:C3'	4:L:724:U:H6	2.24	0.50
5:M:299:U:N3	5:M:300:U:C4	2.79	0.50
5:M:338:U:C2	5:M:339:U:C5	2.99	0.50
5:M:428:U:O2	5:M:429:U:C1'	2.60	0.50
5:M:441:U:C2'	5:M:442:U:H5'	2.39	0.50
6:N:383:U:H2'	6:N:384:U:O4'	2.11	0.50
6:N:389:U:O2	6:N:390:U:C6	2.64	0.50
6:N:431:U:C2'	6:N:432:U:C4'	2.86	0.50
6:N:440:U:H2'	6:N:441:U:H6	1.76	0.50
6:N:441:U:N3	6:N:442:U:C4	2.79	0.50
1:I:66:A:C6	1:I:67:A:C6	2.99	0.50
1:I:76:A:C6	1:I:77:A:N7	2.79	0.50
1:I:137:A:C6	1:I:138:A:N7	2.80	0.50
1:I:196:A:C2'	1:I:197:A:O5'	2.59	0.50
1:I:263:A:C2	1:I:264:A:C4	3.00	0.50
1:I:299:A:C2'	1:I:300:A:O5'	2.58	0.50
1:I:299:A:H2'	1:I:300:A:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:336:A:H2'	1:I:337:A:H8	1.75	0.50
1:I:343:A:H2'	1:I:344:A:O5'	2.12	0.50
1:I:392:A:H2'	1:I:393:A:H8	1.76	0.50
2:J:40:A:O2'	2:J:41:A:H5'	2.11	0.50
2:J:43:A:C6	2:J:44:A:N7	2.80	0.50
2:J:54:A:H2'	2:J:55:A:C4'	2.42	0.50
2:J:93:A:C2	2:J:94:A:C5	2.99	0.50
2:J:106:A:C2	2:J:107:A:C4	2.99	0.50
2:J:125:A:C5	2:J:126:A:N7	2.79	0.50
2:J:247:A:O2'	2:J:248:A:C5'	2.55	0.50
3:K:35:A:H2'	3:K:36:A:C8	2.46	0.50
3:K:83:A:C2	3:K:84:A:C8	3.00	0.50
3:K:100:A:N3	3:K:101:A:N9	2.60	0.50
3:K:127:A:C2'	3:K:128:A:O5'	2.59	0.50
3:K:141:A:C2	3:K:142:A:C4	2.98	0.50
3:K:249:A:C2	3:K:250:A:C4	2.99	0.50
4:L:521:U:C2	4:L:522:U:C6	3.00	0.50
4:L:524:U:H2'	4:L:525:U:C5'	2.41	0.50
4:L:540:U:O2'	4:L:541:U:O5'	2.29	0.50
4:L:554:U:C2	4:L:555:U:C4	2.97	0.50
4:L:587:U:O2'	4:L:588:U:C4'	2.59	0.50
4:L:627:U:C2'	4:L:628:U:C5'	2.89	0.50
4:L:703:U:N3	4:L:704:U:C4	2.79	0.50
4:L:751:U:N3	4:L:752:U:C5	2.80	0.50
4:L:783:U:O2'	4:L:784:U:O5'	2.29	0.50
5:M:287:U:H2'	5:M:288:U:C6	2.39	0.50
5:M:454:U:N1	5:M:455:U:C6	2.78	0.50
6:N:401:U:C2	6:N:402:U:C5	3.00	0.50
1:I:21:A:C6	1:I:22:A:C5	3.00	0.50
1:I:52:A:H2'	1:I:53:A:O5'	2.11	0.50
1:I:119:A:C2	1:I:120:A:C1'	2.95	0.50
1:I:176:A:H2'	1:I:177:A:H8	1.76	0.50
1:I:187:A:C6	1:I:188:A:C5	3.00	0.50
1:I:196:A:C4	1:I:197:A:C8	2.99	0.50
1:I:223:A:C2	1:I:224:A:C4	2.99	0.50
1:I:244:A:C2'	1:I:245:A:O5'	2.59	0.50
1:I:287:A:C3'	1:I:288:A:C5'	2.49	0.50
1:I:304:A:N3	1:I:305:A:C8	2.79	0.50
1:I:307:A:C2'	1:I:308:A:C5'	2.90	0.50
1:I:324:A:C2	1:I:325:A:N9	2.80	0.50
1:I:342:A:C2	1:I:343:A:C8	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:28:A:H2'	2:J:29:A:C8	2.46	0.50
2:J:32:A:N1	2:J:33:A:C5	2.79	0.50
2:J:92:A:HO2'	2:J:93:A:C5'	2.24	0.50
2:J:104:A:H2'	2:J:105:A:O5'	2.11	0.50
2:J:127:A:C4	2:J:128:A:C8	3.00	0.50
2:J:185:A:C4	2:J:186:A:C8	2.99	0.50
2:J:216:A:H2'	2:J:217:A:C8	2.46	0.50
3:K:71:A:C2'	3:K:72:A:C8	2.79	0.50
3:K:77:A:C2'	3:K:78:A:C5'	2.88	0.50
3:K:111:A:C2	3:K:112:A:C8	2.99	0.50
3:K:120:A:C6	3:K:121:A:C6	2.97	0.50
3:K:191:A:H2'	3:K:192:A:O4'	2.10	0.50
3:K:213:A:O2'	3:K:214:A:H5'	2.11	0.50
4:L:471:U:C2	4:L:472:U:C5	2.99	0.50
4:L:480:U:N3	4:L:481:U:C5	2.79	0.50
4:L:533:U:C2'	4:L:534:U:O5'	2.59	0.50
4:L:544:U:H2'	4:L:545:U:C5'	2.39	0.50
4:L:550:U:O2'	4:L:551:U:P	2.65	0.50
4:L:589:U:HO2'	4:L:590:U:H5'	1.74	0.50
4:L:595:U:H2'	4:L:596:U:C5'	2.40	0.50
4:L:619:U:C2	4:L:620:U:C5	3.00	0.50
4:L:652:U:H2'	4:L:653:U:H6	1.75	0.50
4:L:666:U:H2'	4:L:667:U:H6	1.77	0.50
4:L:674:U:C3'	4:L:675:U:C5'	2.78	0.50
4:L:691:U:C2	4:L:692:U:C6	3.00	0.50
4:L:811:U:C6	4:L:812:U:C5	3.00	0.50
5:M:358:U:C2	5:M:359:U:C5	2.99	0.50
5:M:516:U:N3	5:M:517:U:C5	2.79	0.50
5:M:539:U:C2	5:M:540:U:C5	2.99	0.50
5:M:541:U:C2'	5:M:542:U:H5'	2.41	0.50
5:M:545:U:H2'	5:M:546:U:H6	1.76	0.50
6:N:419:U:N3	6:N:420:U:C5	2.79	0.50
6:N:455:U:HO3'	6:N:456:U:P	2.31	0.50
6:N:521:U:H2'	6:N:522:U:H6	1.77	0.50
1:I:33:A:H2'	1:I:34:A:O4'	2.12	0.50
1:I:73:A:C4	1:I:74:A:N7	2.80	0.50
1:I:81:A:H2'	1:I:82:A:C5'	2.42	0.50
1:I:118:A:C2	1:I:119:A:N7	2.80	0.50
1:I:135:A:C6	1:I:136:A:C5	3.00	0.50
1:I:175:A:N1	1:I:176:A:N6	2.59	0.50
1:I:243:A:H62	1:I:244:A:H62	1.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:262:A:C6	1:I:263:A:C5	2.99	0.50
1:I:305:A:C5	1:I:306:A:N7	2.80	0.50
1:I:307:A:C4	1:I:308:A:C8	3.00	0.50
2:J:5:A:N3	2:J:6:A:C8	2.79	0.50
2:J:33:A:C5	2:J:34:A:N7	2.80	0.50
2:J:45:A:C2	2:J:46:A:N7	2.80	0.50
2:J:53:A:N3	2:J:54:A:C8	2.80	0.50
2:J:73:A:O2'	2:J:74:A:C5'	2.59	0.50
2:J:93:A:O2'	2:J:94:A:C5'	2.49	0.50
3:K:120:A:N3	3:K:121:A:C8	2.79	0.50
3:K:198:A:C6	3:K:199:A:N6	2.80	0.50
3:K:212:A:C3'	3:K:213:A:H8	2.25	0.50
3:K:221:A:H2'	3:K:222:A:C8	2.47	0.50
3:K:232:A:O2'	3:K:233:A:H5'	2.11	0.50
4:L:417:U:H2'	4:L:418:U:C6	2.46	0.50
4:L:706:U:H2'	4:L:707:U:C5'	2.42	0.50
5:M:312:U:C3'	5:M:313:U:P	2.99	0.50
5:M:473:U:H2'	5:M:474:U:O5'	2.10	0.50
6:N:329:U:C2'	6:N:330:U:C6	2.84	0.50
6:N:362:U:C2	6:N:363:U:C6	3.00	0.50
6:N:402:U:N3	6:N:403:U:C4	2.79	0.50
6:N:421:U:C2	6:N:422:U:C6	3.00	0.50
1:I:21:A:N1	1:I:22:A:C6	2.80	0.50
1:I:80:A:C2	1:I:81:A:C8	2.99	0.50
1:I:220:A:N3	1:I:221:A:C8	2.80	0.50
1:I:270:A:C5	1:I:271:A:N7	2.80	0.50
1:I:294:A:N6	4:L:532:U:O4	2.44	0.50
2:J:30:A:C2	2:J:31:A:C4	2.99	0.50
2:J:49:A:H2'	2:J:50:A:H8	1.77	0.50
2:J:86:A:C2	2:J:87:A:C8	3.00	0.50
2:J:175:A:C4	2:J:176:A:C8	3.00	0.50
2:J:191:A:H2'	2:J:192:A:O4'	2.11	0.50
2:J:206:A:C2'	2:J:207:A:C4'	2.88	0.50
2:J:262:A:H2'	2:J:263:A:C8	2.46	0.50
3:K:41:A:C4	3:K:42:A:C8	3.00	0.50
3:K:55:A:H2'	3:K:56:A:H8	1.77	0.50
3:K:65:A:H62	3:K:66:A:N6	1.94	0.50
3:K:109:A:C6	3:K:110:A:N7	2.80	0.50
3:K:154:A:C6	3:K:155:A:N6	2.77	0.50
4:L:478:U:C2	4:L:479:U:C6	3.00	0.50
4:L:548:U:C2'	4:L:549:U:O4'	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:695:U:H2'	4:L:696:U:C5'	2.31	0.50
4:L:701:U:C2	4:L:702:U:C5	2.99	0.50
4:L:712:U:N3	4:L:713:U:C4	2.80	0.50
4:L:757:U:O2'	4:L:758:U:H5'	2.12	0.50
4:L:764:U:C6	4:L:765:U:H5	2.29	0.50
4:L:795:U:N3	4:L:796:U:C5	2.79	0.50
5:M:293:U:O2'	5:M:294:U:H5'	2.12	0.50
5:M:310:U:H2'	5:M:311:U:C5'	2.41	0.50
5:M:367:U:H2'	5:M:368:U:C6	2.45	0.50
5:M:390:U:C2	5:M:391:U:C5	2.99	0.50
5:M:470:U:O2'	5:M:471:U:H5'	2.12	0.50
6:N:309:U:C4	6:N:310:U:O4	2.64	0.50
6:N:353:U:H2'	6:N:354:U:C6	2.46	0.50
6:N:407:U:C2	6:N:408:U:C5	2.99	0.50
6:N:434:U:O2'	6:N:435:U:O4'	2.29	0.50
6:N:476:U:C4	6:N:477:U:C4	2.99	0.50
6:N:512:U:H2'	6:N:513:U:H6	1.75	0.50
1:I:41:A:C2'	1:I:42:A:O5'	2.59	0.50
1:I:77:A:C6	1:I:78:A:N7	2.80	0.50
1:I:90:A:C2	1:I:91:A:C5	3.00	0.50
1:I:106:A:C4	1:I:107:A:N7	2.80	0.50
1:I:230:A:C2	1:I:231:A:N9	2.80	0.50
1:I:268:A:C2	1:I:269:A:H1'	2.45	0.50
1:I:290:A:H2'	1:I:291:A:H8	1.76	0.50
1:I:321:A:C2	1:I:322:A:C8	2.99	0.50
2:J:70:A:N3	2:J:71:A:C1'	2.75	0.50
2:J:123:A:C4	2:J:124:A:C8	2.99	0.50
2:J:130:A:C2	2:J:131:A:C4	3.00	0.50
2:J:183:A:N1	2:J:184:A:C5	2.80	0.50
2:J:193:A:H2'	2:J:194:A:C5'	2.40	0.50
2:J:211:A:C2	2:J:212:A:C4	3.00	0.50
2:J:231:A:C5	2:J:232:A:N7	2.80	0.50
2:J:235:A:N1	2:J:236:A:C5	2.79	0.50
3:K:37:A:H2'	3:K:38:A:C8	2.44	0.50
3:K:72:A:H2'	3:K:73:A:O4'	2.11	0.50
3:K:152:A:C6	3:K:153:A:C5	2.99	0.50
4:L:493:U:N3	4:L:494:U:C5	2.80	0.50
4:L:579:U:C2'	4:L:580:U:H5'	2.42	0.50
4:L:603:U:C2'	4:L:604:U:O5'	2.60	0.50
4:L:626:U:C2	4:L:627:U:C6	3.00	0.50
4:L:685:U:O2	4:L:686:U:C6	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:727:U:H2'	4:L:728:U:C6	2.47	0.50
4:L:779:U:H2'	4:L:780:U:O4'	2.11	0.50
5:M:293:U:H2'	5:M:294:U:H6	1.77	0.50
5:M:347:U:H2'	5:M:348:U:C6	2.42	0.50
5:M:422:U:H2'	5:M:423:U:C6	2.43	0.50
5:M:463:U:N3	5:M:464:U:C4	2.79	0.50
6:N:317:U:C2'	6:N:318:U:O4'	2.59	0.50
6:N:435:U:O2'	6:N:436:U:P	2.70	0.50
6:N:462:U:H2'	6:N:463:U:H6	1.77	0.50
1:I:9:A:C2'	1:I:10:A:C5'	2.90	0.50
1:I:13:A:N9	1:I:14:A:C8	2.78	0.50
1:I:57:A:C5	1:I:58:A:N7	2.80	0.50
1:I:64:A:C5	1:I:65:A:N7	2.80	0.50
1:I:96:A:C2	1:I:97:A:C4	3.00	0.50
1:I:97:A:H2'	1:I:98:A:H8	1.77	0.50
1:I:134:A:C2	1:I:135:A:C4	2.95	0.50
1:I:207:A:C2'	1:I:208:A:O5'	2.59	0.50
1:I:270:A:C2	1:I:271:A:N3	2.79	0.50
1:I:276:A:C4	1:I:277:A:C8	3.00	0.50
1:I:299:A:C4	1:I:300:A:C8	3.00	0.50
1:I:299:A:N3	1:I:300:A:C8	2.80	0.50
1:I:318:A:H2'	1:I:319:A:H8	1.76	0.50
1:I:338:A:C4	1:I:339:A:C8	2.99	0.50
1:I:393:A:H2'	1:I:394:A:H8	1.75	0.50
2:J:44:A:C2	2:J:45:A:C4	3.00	0.50
2:J:53:A:C2	2:J:54:A:C8	2.99	0.50
2:J:56:A:N3	2:J:57:A:C1'	2.75	0.50
2:J:231:A:C6	2:J:232:A:C6	3.00	0.50
2:J:256:A:O2'	2:J:257:A:H5'	2.12	0.50
3:K:115:A:H2'	3:K:116:A:O4'	2.11	0.50
3:K:115:A:C6	3:K:116:A:N6	2.80	0.50
3:K:124:A:C2'	3:K:125:A:H8	2.23	0.50
3:K:132:A:C4	3:K:133:A:C8	3.00	0.50
3:K:169:A:H2'	3:K:170:A:O4'	2.11	0.50
4:L:561:U:O2	4:L:562:U:C6	2.65	0.50
4:L:566:U:N3	4:L:567:U:C5	2.79	0.50
4:L:643:U:H2'	4:L:644:U:C6	2.46	0.50
4:L:645:U:H2'	4:L:646:U:C6	2.47	0.50
4:L:664:U:H2'	4:L:665:U:H6	1.75	0.50
4:L:810:U:N3	4:L:811:U:C4	2.80	0.50
5:M:392:U:H2'	5:M:393:U:C5'	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:473:U:O2	5:M:474:U:C6	2.64	0.50
5:M:503:U:C2	5:M:504:U:C6	2.99	0.50
6:N:300:U:C2	6:N:301:U:C5	3.00	0.50
6:N:350:U:H2'	6:N:351:U:H6	1.77	0.50
6:N:395:U:C2'	6:N:396:U:H5'	2.42	0.50
6:N:475:U:C2	6:N:476:U:C6	3.00	0.50
6:N:490:U:C4	6:N:491:U:O4	2.65	0.50
1:I:10:A:C2	1:I:11:A:C4	3.00	0.50
1:I:58:A:C2	1:I:59:A:C5	3.00	0.50
1:I:120:A:N1	1:I:121:A:C5	2.80	0.50
1:I:158:A:H2'	1:I:159:A:H8	1.77	0.50
1:I:160:A:HO2'	1:I:161:A:H5'	1.67	0.50
1:I:182:A:H2'	1:I:183:A:O5'	2.12	0.50
1:I:207:A:H2'	1:I:208:A:O5'	2.11	0.50
1:I:236:A:HO2'	1:I:237:A:C5'	2.07	0.50
1:I:270:A:C2	1:I:271:A:H1'	2.47	0.50
1:I:271:A:N1	1:I:272:A:C5	2.76	0.50
1:I:284:A:N3	1:I:285:A:C8	2.80	0.50
1:I:307:A:H2'	1:I:308:A:C8	2.46	0.50
1:I:315:A:C2	1:I:316:A:C4	2.99	0.50
1:I:386:A:C6	1:I:387:A:C5	2.98	0.50
2:J:57:A:N1	2:J:58:A:N7	2.59	0.50
2:J:80:A:H2'	2:J:81:A:C8	2.47	0.50
2:J:117:A:N3	2:J:118:A:C1'	2.75	0.50
2:J:128:A:C6	2:J:129:A:C5	3.00	0.50
2:J:160:A:C2	2:J:161:A:C5	3.00	0.50
3:K:85:A:H2'	3:K:86:A:O5'	2.11	0.50
3:K:95:A:C2	3:K:96:A:N9	2.80	0.50
3:K:96:A:C2'	3:K:97:A:C4'	2.89	0.50
3:K:104:A:O2'	3:K:105:A:O4'	2.30	0.50
3:K:152:A:H2'	3:K:153:A:C8	2.47	0.50
3:K:203:A:N1	3:K:204:A:N6	2.59	0.50
3:K:249:A:C2	3:K:250:A:C5	2.99	0.50
3:K:254:A:C6	3:K:255:A:N7	2.79	0.50
4:L:415:U:C2	4:L:416:U:C5	3.00	0.50
4:L:424:U:N3	4:L:425:U:C5	2.79	0.50
4:L:433:U:C4	4:L:434:U:O4	2.65	0.50
4:L:490:U:N3	4:L:491:U:C5	2.80	0.50
4:L:571:U:N3	4:L:572:U:O4	2.42	0.50
4:L:710:U:N3	4:L:711:U:C5	2.80	0.50
4:L:801:U:C2	4:L:802:U:C5	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:813:U:O4	4:L:814:U:O4	2.28	0.50
5:M:343:U:C2	5:M:344:U:C5	3.00	0.50
5:M:471:U:H2'	5:M:472:U:C6	2.47	0.50
6:N:276:U:H2'	6:N:277:U:C6	2.47	0.50
6:N:526:U:C2	6:N:527:U:C6	2.99	0.50
1:I:47:A:N1	1:I:48:A:C6	2.80	0.49
1:I:70:A:N1	1:I:71:A:C5	2.80	0.49
1:I:74:A:H2'	1:I:75:A:C1'	2.32	0.49
1:I:76:A:C2'	1:I:77:A:H5'	2.41	0.49
1:I:109:A:HO2'	1:I:110:A:C4'	2.24	0.49
1:I:110:A:C2'	1:I:111:A:O4'	2.59	0.49
1:I:225:A:C4	1:I:226:A:C8	3.00	0.49
2:J:56:A:N1	2:J:57:A:C5	2.80	0.49
2:J:135:A:H2'	2:J:136:A:H8	1.76	0.49
2:J:149:A:N3	2:J:150:A:C8	2.80	0.49
2:J:151:A:C4	2:J:152:A:C8	3.00	0.49
2:J:234:A:H2'	2:J:235:A:O5'	2.12	0.49
2:J:254:A:H2'	2:J:255:A:O4'	2.12	0.49
2:J:266:A:N3	2:J:267:A:C8	2.80	0.49
3:K:31:A:C4	3:K:32:A:N7	2.80	0.49
3:K:98:A:C2'	3:K:99:A:C5'	2.89	0.49
3:K:104:A:HO2'	3:K:105:A:C4'	2.22	0.49
3:K:131:A:C6	3:K:132:A:C6	2.99	0.49
3:K:154:A:O5'	3:K:155:A:OP2	2.30	0.49
3:K:221:A:H2'	3:K:222:A:H8	1.77	0.49
4:L:447:U:C2	4:L:448:U:C5	2.99	0.49
4:L:450:U:HO2'	4:L:451:U:H5'	1.68	0.49
4:L:544:U:C4	4:L:545:U:O4	2.65	0.49
4:L:559:U:C4	4:L:560:U:C4	3.00	0.49
4:L:568:U:N3	4:L:569:U:C4	2.80	0.49
4:L:693:U:N1	4:L:694:U:C5	2.77	0.49
4:L:782:U:O2'	4:L:783:U:C5'	2.56	0.49
6:N:422:U:N3	6:N:423:U:C4	2.80	0.49
6:N:490:U:N3	6:N:491:U:C4	2.79	0.49
6:N:527:U:N3	6:N:528:U:C5	2.80	0.49
1:I:41:A:N1	1:I:42:A:C5	2.80	0.49
1:I:74:A:H2'	1:I:75:A:H8	1.77	0.49
1:I:154:A:H2'	1:I:155:A:C8	2.45	0.49
1:I:210:A:H2'	1:I:211:A:H8	1.77	0.49
1:I:241:A:C2	1:I:242:A:C5	3.00	0.49
1:I:259:A:C2	1:I:260:A:C4	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:311:A:HO2'	1:I:312:A:H5'	1.72	0.49
1:I:313:A:N6	1:I:314:A:N6	2.60	0.49
1:I:317:A:C2	1:I:318:A:C5	3.00	0.49
1:I:325:A:H61	1:I:326:A:N6	2.00	0.49
1:I:371:A:C2'	1:I:372:A:H5'	2.41	0.49
1:I:405:A:H2'	1:I:406:A:H8	1.77	0.49
2:J:8:A:H2'	2:J:9:A:O5'	2.11	0.49
2:J:48:A:C6	2:J:49:A:N7	2.80	0.49
2:J:68:A:C4	2:J:69:A:N7	2.80	0.49
2:J:84:A:N1	2:J:85:A:C4	2.80	0.49
2:J:200:A:C4	2:J:201:A:C8	3.00	0.49
2:J:229:A:H2'	2:J:230:A:C5'	2.33	0.49
2:J:231:A:H61	2:J:232:A:N6	2.03	0.49
2:J:258:A:C2'	2:J:259:A:H5'	2.42	0.49
3:K:81:A:C2'	3:K:82:A:O4'	2.58	0.49
4:L:418:U:H2'	4:L:419:U:H6	1.77	0.49
4:L:463:U:HO2'	4:L:464:U:C4'	2.25	0.49
4:L:526:U:C2'	4:L:527:U:C5'	2.89	0.49
4:L:612:U:C2	4:L:613:U:C5	3.00	0.49
4:L:641:U:O2	4:L:642:U:N1	2.44	0.49
4:L:704:U:N3	4:L:705:U:C5	2.80	0.49
4:L:740:U:C2	4:L:741:U:C5	2.99	0.49
4:L:805:U:O2'	4:L:806:U:H5'	2.12	0.49
5:M:330:U:H2'	5:M:331:U:O5'	2.11	0.49
5:M:336:U:O2'	5:M:337:U:C5'	2.45	0.49
5:M:373:U:N3	5:M:374:U:C5	2.80	0.49
5:M:434:U:H2'	5:M:435:U:H6	1.77	0.49
5:M:490:U:O2	5:M:491:U:C6	2.65	0.49
5:M:491:U:O2	5:M:492:U:C6	2.65	0.49
5:M:509:U:H2'	5:M:510:U:O5'	2.12	0.49
5:M:537:U:C4	5:M:538:U:C5	3.00	0.49
6:N:311:U:H2'	6:N:312:U:C1'	2.37	0.49
6:N:460:U:H2'	6:N:461:U:H5	1.75	0.49
1:I:27:A:H2'	1:I:28:A:O5'	2.12	0.49
1:I:52:A:H2'	1:I:53:A:C5'	2.41	0.49
1:I:80:A:C6	1:I:81:A:N7	2.80	0.49
1:I:91:A:C4	1:I:92:A:C8	3.00	0.49
1:I:97:A:C2	1:I:98:A:C8	3.00	0.49
1:I:231:A:H61	1:I:232:A:N6	2.08	0.49
1:I:287:A:H2'	1:I:288:A:C8	2.47	0.49
1:I:316:A:C6	1:I:317:A:C6	2.99	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:319:A:C5	1:I:320:A:N7	2.80	0.49
1:I:384:A:C3'	1:I:385:A:P	2.96	0.49
2:J:57:A:O2'	2:J:58:A:H5'	2.13	0.49
2:J:65:A:H2'	2:J:66:A:H8	1.76	0.49
2:J:90:A:H2'	2:J:91:A:C8	2.47	0.49
2:J:93:A:C6	2:J:94:A:C5	3.00	0.49
2:J:151:A:H2'	2:J:152:A:O4'	2.12	0.49
2:J:164:A:H2'	2:J:165:A:H8	1.77	0.49
2:J:217:A:C6	2:J:218:A:C6	3.00	0.49
3:K:37:A:O2'	3:K:38:A:H5'	2.12	0.49
3:K:41:A:C2	3:K:42:A:C5	3.00	0.49
3:K:50:A:O2'	3:K:51:A:H5'	2.12	0.49
3:K:59:A:C2	3:K:60:A:C4	3.01	0.49
3:K:76:A:H2'	3:K:77:A:O4'	2.12	0.49
3:K:105:A:H2'	3:K:106:A:N9	2.19	0.49
3:K:120:A:C2	6:N:412:U:C2	3.00	0.49
3:K:154:A:N1	3:K:155:A:C6	2.80	0.49
3:K:173:A:C2	3:K:174:A:C8	3.00	0.49
3:K:195:A:H2'	3:K:196:A:H8	1.75	0.49
4:L:485:U:H2'	4:L:486:U:H6	1.77	0.49
4:L:586:U:C2'	4:L:587:U:H6	2.21	0.49
4:L:647:U:C2'	4:L:648:U:O5'	2.61	0.49
4:L:709:U:H2'	4:L:710:U:H6	1.77	0.49
4:L:811:U:N1	4:L:812:U:C5	2.78	0.49
5:M:364:U:C2'	5:M:365:U:O5'	2.58	0.49
5:M:499:U:N3	5:M:500:U:C5	2.80	0.49
5:M:504:U:H2'	5:M:505:U:C5'	2.42	0.49
6:N:442:U:C2	6:N:443:U:C5	2.99	0.49
6:N:444:U:N3	6:N:445:U:C5	2.80	0.49
6:N:446:U:O2	6:N:447:U:C5	2.66	0.49
1:I:17:A:N6	4:L:809:U:O4	2.46	0.49
1:I:56:A:H2	1:I:57:A:C4	2.27	0.49
1:I:67:A:N9	1:I:68:A:C8	2.80	0.49
1:I:118:A:N6	1:I:119:A:N6	2.60	0.49
1:I:206:A:C2	1:I:207:A:C4	3.00	0.49
1:I:236:A:H2'	1:I:237:A:C5'	2.28	0.49
1:I:315:A:C4	1:I:316:A:C8	3.01	0.49
1:I:325:A:C5	1:I:326:A:N7	2.81	0.49
2:J:12:A:C2'	2:J:13:A:H5'	2.42	0.49
2:J:13:A:C2'	2:J:14:A:C5'	2.90	0.49
2:J:14:A:C2	5:M:540:U:C2	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:120:A:C2	2:J:121:A:N9	2.80	0.49
2:J:129:A:C2'	2:J:130:A:O4'	2.54	0.49
2:J:160:A:N3	2:J:161:A:N9	2.59	0.49
2:J:207:A:C6	2:J:208:A:C5	3.00	0.49
2:J:249:A:H2'	2:J:250:A:O4'	2.12	0.49
3:K:54:A:N3	3:K:55:A:N7	2.60	0.49
3:K:57:A:N6	3:K:58:A:N6	2.60	0.49
3:K:92:A:C2	3:K:93:A:C4	3.01	0.49
3:K:113:A:C2	3:K:114:A:C5	3.00	0.49
3:K:129:A:C2'	3:K:130:A:C5'	2.91	0.49
3:K:138:A:N1	3:K:139:A:C6	2.80	0.49
3:K:154:A:C2	3:K:155:A:C5	3.01	0.49
3:K:239:A:O2'	3:K:240:A:C5'	2.49	0.49
4:L:430:U:H2'	4:L:431:U:H6	1.76	0.49
4:L:524:U:HO2'	4:L:525:U:H5'	1.69	0.49
4:L:539:U:O2'	4:L:540:U:H5'	2.12	0.49
4:L:540:U:C2'	4:L:541:U:O5'	2.59	0.49
4:L:548:U:N3	4:L:549:U:C5	2.81	0.49
4:L:560:U:H2'	4:L:561:U:O5'	2.11	0.49
4:L:594:U:O2	4:L:595:U:C6	2.66	0.49
4:L:598:U:H2'	4:L:599:U:C5'	2.41	0.49
4:L:649:U:C2'	4:L:650:U:O4'	2.53	0.49
4:L:691:U:C2'	4:L:692:U:C5'	2.90	0.49
5:M:316:U:H2'	5:M:317:U:H6	1.76	0.49
5:M:396:U:H2'	5:M:397:U:O5'	2.12	0.49
5:M:410:U:C5	5:M:411:U:H5	2.30	0.49
5:M:415:U:H2'	5:M:416:U:H6	1.77	0.49
5:M:429:U:C2	5:M:430:U:C5	3.00	0.49
5:M:445:U:H2'	5:M:446:U:O5'	2.13	0.49
5:M:515:U:O2	5:M:516:U:C6	2.65	0.49
5:M:533:U:H2'	5:M:534:U:C6	2.47	0.49
6:N:279:U:C2	6:N:280:U:C5	3.00	0.49
6:N:396:U:O2'	6:N:397:U:H5'	2.11	0.49
6:N:413:U:HO2'	6:N:414:U:H5'	1.74	0.49
6:N:422:U:C2	6:N:423:U:C6	2.99	0.49
1:I:67:A:O2'	1:I:68:A:H5'	2.13	0.49
1:I:95:A:C2	1:I:96:A:C4	2.96	0.49
1:I:112:A:C4	1:I:113:A:N7	2.80	0.49
1:I:152:A:C4	1:I:153:A:C8	3.00	0.49
1:I:158:A:N6	1:I:159:A:N6	2.60	0.49
1:I:175:A:O2'	1:I:176:A:C5'	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:185:A:N1	1:I:186:A:C5	2.80	0.49
1:I:186:A:C4	1:I:187:A:C8	2.95	0.49
1:I:186:A:H2'	1:I:187:A:O5'	2.11	0.49
1:I:227:A:C2	1:I:228:A:C8	3.01	0.49
1:I:229:A:H2'	1:I:230:A:C5'	2.39	0.49
1:I:245:A:H2'	1:I:246:A:H8	1.77	0.49
1:I:246:A:C2	1:I:247:A:C4	3.01	0.49
1:I:249:A:N1	1:I:250:A:C5	2.81	0.49
2:J:36:A:N6	2:J:37:A:N6	2.60	0.49
2:J:64:A:N1	2:J:65:A:C5	2.80	0.49
2:J:91:A:C2	2:J:92:A:C5	3.01	0.49
2:J:91:A:C4	2:J:92:A:C8	3.01	0.49
2:J:102:A:C6	2:J:103:A:C5	3.00	0.49
2:J:120:A:H2'	2:J:121:A:O5'	2.11	0.49
2:J:132:A:O2'	2:J:133:A:C4'	2.60	0.49
2:J:146:A:C4	2:J:147:A:C8	3.00	0.49
2:J:197:A:C2	2:J:198:A:C5	3.01	0.49
3:K:151:A:C2	3:K:152:A:C4	3.00	0.49
4:L:438:U:C2	4:L:439:U:H5	2.25	0.49
4:L:461:U:N3	4:L:462:U:C5	2.81	0.49
4:L:475:U:N3	4:L:476:U:C5	2.81	0.49
4:L:542:U:N3	4:L:543:U:C4	2.80	0.49
4:L:585:U:C2'	4:L:586:U:O4'	2.60	0.49
4:L:685:U:O2	4:L:686:U:C5	2.66	0.49
4:L:766:U:N1	4:L:767:U:C6	2.80	0.49
4:L:777:U:H2'	4:L:778:U:C6	2.46	0.49
5:M:387:U:C4	5:M:388:U:O4	2.65	0.49
5:M:391:U:C2	5:M:392:U:C6	3.01	0.49
5:M:410:U:H2'	5:M:411:U:O4'	2.12	0.49
5:M:430:U:N3	5:M:431:U:C5	2.79	0.49
5:M:503:U:H2'	5:M:504:U:C6	2.43	0.49
6:N:401:U:O2'	6:N:402:U:C5'	2.45	0.49
6:N:419:U:H2'	6:N:420:U:C6	2.45	0.49
6:N:431:U:O2	6:N:432:U:C6	2.65	0.49
6:N:447:U:C2'	6:N:448:U:H5'	2.41	0.49
1:I:25:A:C2	1:I:26:A:C5	3.01	0.49
1:I:59:A:C2	1:I:60:A:C4	3.01	0.49
1:I:156:A:H2'	1:I:157:A:O4'	2.12	0.49
1:I:179:A:N1	1:I:180:A:C6	2.80	0.49
1:I:213:A:C4	1:I:214:A:N7	2.80	0.49
1:I:247:A:C4	1:I:248:A:N7	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:250:A:C2	4:L:576:U:C2	3.00	0.49
1:I:278:A:C2'	1:I:279:A:C4'	2.90	0.49
1:I:317:A:C2	1:I:318:A:C8	3.00	0.49
1:I:321:A:HO2'	1:I:322:A:H5'	1.72	0.49
1:I:324:A:C2	4:L:502:U:C2	3.00	0.49
1:I:348:A:C4	1:I:349:A:C8	3.01	0.49
1:I:358:A:N3	1:I:359:A:N7	2.49	0.49
2:J:98:A:C6	2:J:99:A:N6	2.80	0.49
2:J:144:A:N1	2:J:145:A:C5	2.80	0.49
2:J:264:A:C2	2:J:265:A:C5	3.00	0.49
3:K:69:A:N6	3:K:70:A:H62	2.11	0.49
3:K:71:A:N3	3:K:72:A:N9	2.61	0.49
3:K:166:A:C2	3:K:167:A:C5	3.00	0.49
3:K:221:A:C6	3:K:222:A:N6	2.80	0.49
4:L:510:U:HO2'	4:L:511:U:C4'	2.25	0.49
4:L:588:U:H2'	4:L:589:U:H6	1.78	0.49
4:L:693:U:C6	4:L:694:U:H5	2.30	0.49
4:L:713:U:N3	4:L:714:U:C5	2.81	0.49
4:L:780:U:N3	4:L:781:U:C5	2.80	0.49
5:M:332:U:H2'	5:M:333:U:H6	1.78	0.49
5:M:501:U:N3	5:M:502:U:C5	2.81	0.49
5:M:523:U:C2	5:M:524:U:C6	2.91	0.49
6:N:321:U:C6	6:N:322:U:C5	3.00	0.49
6:N:396:U:H2'	6:N:397:U:H6	1.78	0.49
6:N:405:U:C2'	6:N:406:U:C5'	2.91	0.49
6:N:436:U:N3	6:N:437:U:C5	2.80	0.49
6:N:441:U:C2'	6:N:442:U:O5'	2.59	0.49
1:I:9:A:C2	1:I:10:A:C4	3.01	0.49
1:I:19:A:H2'	1:I:20:A:C8	2.48	0.49
1:I:28:A:O2'	1:I:29:A:H5'	2.13	0.49
1:I:74:A:C2	1:I:75:A:N9	2.80	0.49
1:I:83:A:C2'	1:I:84:A:H5'	2.42	0.49
1:I:105:A:C2	1:I:106:A:C4	3.01	0.49
1:I:105:A:C4	1:I:106:A:C8	3.01	0.49
1:I:161:A:C4	1:I:162:A:C8	3.01	0.49
1:I:213:A:C5	1:I:214:A:N7	2.81	0.49
1:I:219:A:C2	1:I:220:A:C8	3.00	0.49
1:I:251:A:C2	1:I:252:A:C4	3.01	0.49
1:I:277:A:C6	1:I:278:A:C5	3.00	0.49
1:I:322:A:O2'	1:I:323:A:H5'	2.13	0.49
1:I:333:A:N1	1:I:334:A:C4	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:376:A:H2'	1:I:377:A:C8	2.47	0.49
1:I:393:A:C2'	1:I:394:A:H5'	2.41	0.49
2:J:54:A:C2'	2:J:55:A:C4'	2.91	0.49
2:J:98:A:N3	2:J:99:A:C8	2.81	0.49
2:J:199:A:N3	2:J:200:A:C8	2.81	0.49
3:K:137:A:C2	3:K:138:A:N9	2.81	0.49
3:K:179:A:C3'	3:K:180:A:P	2.93	0.49
4:L:473:U:N3	4:L:474:U:C5	2.81	0.49
4:L:492:U:H2'	4:L:493:U:H6	1.78	0.49
4:L:522:U:N3	4:L:523:U:C5	2.81	0.49
4:L:541:U:C2'	4:L:542:U:O5'	2.61	0.49
4:L:551:U:H2'	4:L:552:U:C6	2.47	0.49
4:L:764:U:O5'	4:L:765:U:OP2	2.31	0.49
4:L:772:U:C2	4:L:773:U:C6	3.01	0.49
4:L:779:U:C4	4:L:780:U:C5	3.01	0.49
5:M:530:U:N3	5:M:531:U:C5	2.80	0.49
6:N:416:U:O2	6:N:417:U:N1	2.46	0.49
6:N:488:U:O2'	6:N:489:U:C5'	2.51	0.49
6:N:516:U:C3'	6:N:517:U:P	2.98	0.49
1:I:48:A:N1	1:I:49:A:C5	2.80	0.49
1:I:51:A:C2'	1:I:52:A:H5'	2.41	0.49
1:I:71:A:C6	1:I:72:A:C5	3.01	0.49
1:I:74:A:N1	1:I:75:A:C5	2.80	0.49
1:I:90:A:N3	1:I:91:A:C8	2.81	0.49
1:I:189:A:N3	1:I:190:A:C8	2.81	0.49
1:I:194:A:C4	1:I:195:A:N7	2.81	0.49
1:I:231:A:H2'	1:I:232:A:C5'	2.43	0.49
1:I:231:A:C2	1:I:232:A:C5	3.00	0.49
1:I:246:A:HO2'	1:I:247:A:H5'	1.70	0.49
1:I:260:A:HO2'	1:I:261:A:H5'	1.66	0.49
1:I:318:A:C2'	1:I:319:A:O5'	2.60	0.49
1:I:332:A:C6	1:I:333:A:N7	2.81	0.49
2:J:37:A:N1	2:J:38:A:C5	2.80	0.49
2:J:40:A:C4	2:J:41:A:N7	2.81	0.49
2:J:186:A:C6	2:J:187:A:C5	3.00	0.49
2:J:201:A:C4	2:J:202:A:N7	2.81	0.49
2:J:218:A:C2	2:J:219:A:N9	2.80	0.49
2:J:230:A:HO2'	2:J:231:A:C4'	2.25	0.49
2:J:237:A:N1	2:J:238:A:C5	2.80	0.49
3:K:18:A:N6	3:K:19:A:H62	2.09	0.49
3:K:53:A:C2	3:K:54:A:C8	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:133:A:H2'	3:K:134:A:C5'	2.42	0.49
3:K:139:A:C2	3:K:140:A:N9	2.80	0.49
3:K:155:A:C2	3:K:156:A:C4	3.01	0.49
4:L:546:U:O2'	4:L:547:U:C4'	2.60	0.49
4:L:687:U:H2'	4:L:688:U:H6	1.76	0.49
4:L:747:U:H2'	4:L:748:U:C6	2.44	0.49
4:L:762:U:C2	4:L:763:U:C5	3.01	0.49
5:M:321:U:N3	5:M:322:U:O4	2.46	0.49
5:M:339:U:C2'	5:M:340:U:H5'	2.42	0.49
5:M:345:U:C2	5:M:346:U:C6	3.00	0.49
5:M:423:U:O2'	5:M:424:U:H5'	2.12	0.49
5:M:450:U:C4	5:M:451:U:O4	2.66	0.49
6:N:300:U:H2'	6:N:301:U:C6	2.47	0.49
6:N:314:U:H2'	6:N:315:U:H6	1.76	0.49
6:N:320:U:O2'	6:N:321:U:O4'	2.30	0.49
6:N:382:U:H2'	6:N:383:U:H6	1.77	0.49
6:N:406:U:O2'	6:N:407:U:C5'	2.51	0.49
1:I:22:A:C2'	1:I:23:A:O5'	2.60	0.49
1:I:42:A:H2'	1:I:43:A:C5'	2.40	0.49
1:I:62:A:H2	1:I:63:A:C4	2.27	0.49
1:I:89:A:H2'	1:I:90:A:C8	2.47	0.49
1:I:161:A:C3'	1:I:162:A:C5'	2.67	0.49
1:I:197:A:C2	1:I:198:A:C5	3.01	0.49
1:I:216:A:O2'	1:I:217:A:H5'	2.13	0.49
1:I:226:A:H2'	1:I:227:A:H8	1.77	0.49
1:I:256:A:C4	1:I:257:A:N7	2.81	0.49
1:I:281:A:H2'	1:I:282:A:C8	2.48	0.49
1:I:300:A:O2'	1:I:301:A:C5'	2.56	0.49
1:I:357:A:C2'	1:I:358:A:C5'	2.91	0.49
2:J:5:A:C6	2:J:6:A:C6	3.01	0.49
2:J:38:A:N1	2:J:39:A:C5	2.81	0.49
2:J:61:A:N1	2:J:62:A:C5	2.81	0.49
2:J:93:A:H2'	2:J:94:A:C5'	2.42	0.49
2:J:106:A:H2'	2:J:107:A:O4'	2.12	0.49
2:J:187:A:C2'	2:J:188:A:C5'	2.91	0.49
2:J:224:A:C6	5:M:330:U:C4	3.01	0.49
2:J:225:A:C6	2:J:226:A:N7	2.81	0.49
3:K:172:A:C2	3:K:173:A:C8	3.00	0.49
3:K:181:A:N1	3:K:182:A:C6	2.81	0.49
4:L:499:U:H2'	4:L:500:U:H6	1.77	0.49
4:L:504:U:C2'	4:L:505:U:O5'	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:528:U:C2	4:L:529:U:C5	3.01	0.49
4:L:531:U:C2	4:L:532:U:C5	3.01	0.49
4:L:533:U:H2'	4:L:534:U:O5'	2.12	0.49
4:L:633:U:H2'	4:L:634:U:H6	1.76	0.49
4:L:636:U:C2	4:L:637:U:C5	3.00	0.49
4:L:674:U:C2'	4:L:675:U:O4'	2.61	0.49
4:L:716:U:N3	4:L:717:U:C4	2.81	0.49
4:L:723:U:C5'	4:L:724:U:P	3.01	0.49
5:M:315:U:O2'	5:M:316:U:C5'	2.57	0.49
5:M:315:U:O2	5:M:316:U:C6	2.66	0.49
5:M:318:U:H2'	5:M:319:U:C4'	2.42	0.49
5:M:320:U:H2'	5:M:321:U:C6	2.48	0.49
5:M:346:U:H2'	5:M:347:U:C6	2.39	0.49
5:M:397:U:N3	5:M:398:U:C5	2.80	0.49
5:M:399:U:C2'	5:M:400:U:C5'	2.90	0.49
5:M:406:U:O2'	5:M:407:U:C4'	2.60	0.49
6:N:302:U:C2'	6:N:303:U:O4'	2.61	0.49
6:N:309:U:H2'	6:N:310:U:H6	1.78	0.49
6:N:342:U:H2'	6:N:343:U:C6	2.47	0.49
6:N:406:U:H2'	6:N:407:U:C4'	2.42	0.49
6:N:427:U:O2	6:N:428:U:C6	2.66	0.49
6:N:438:U:HO2'	6:N:439:U:H5'	1.74	0.49
6:N:459:U:O2	6:N:460:U:C5	2.61	0.49
6:N:461:U:H2'	6:N:462:U:H6	1.77	0.49
1:I:6:A:H2'	1:I:7:A:H8	1.78	0.49
1:I:18:A:C2'	1:I:19:A:O4'	2.60	0.49
1:I:52:A:C2'	1:I:53:A:O5'	2.60	0.49
1:I:57:A:C2	1:I:58:A:C4	3.01	0.49
1:I:77:A:N3	1:I:78:A:C8	2.81	0.49
1:I:188:A:C4	1:I:189:A:C8	3.00	0.49
1:I:222:A:H2'	1:I:223:A:O4'	2.13	0.49
1:I:229:A:N3	1:I:230:A:C8	2.81	0.49
1:I:250:A:N1	1:I:251:A:C5	2.80	0.49
1:I:263:A:C2	1:I:264:A:N7	2.80	0.49
1:I:332:A:C5	1:I:333:A:N7	2.81	0.49
2:J:23:A:C2'	2:J:24:A:H5'	2.42	0.49
2:J:66:A:C4	2:J:67:A:C8	3.01	0.49
2:J:130:A:C4	2:J:131:A:C8	3.00	0.49
2:J:220:A:C4	2:J:221:A:C8	3.01	0.49
2:J:235:A:C4	2:J:236:A:C8	3.01	0.49
3:K:152:A:H2'	3:K:153:A:H8	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:165:A:N3	3:K:166:A:C1'	2.76	0.49
4:L:449:U:C2'	4:L:450:U:H5'	2.39	0.49
4:L:473:U:C4	4:L:474:U:O4	2.66	0.49
4:L:558:U:O2	4:L:559:U:O4'	2.30	0.49
4:L:579:U:C2'	4:L:580:U:O5'	2.61	0.49
4:L:665:U:O2	4:L:666:U:C6	2.66	0.49
4:L:691:U:C2'	4:L:692:U:O5'	2.60	0.49
4:L:721:U:O2	4:L:722:U:O4'	2.31	0.49
5:M:344:U:O2'	5:M:345:U:H5'	2.13	0.49
5:M:350:U:N3	5:M:351:U:C5	2.81	0.49
5:M:360:U:O2'	5:M:361:U:P	2.66	0.49
5:M:392:U:H2'	5:M:393:U:C4'	2.40	0.49
5:M:455:U:H2'	5:M:456:U:C4'	2.42	0.49
5:M:457:U:O2'	5:M:458:U:C5'	2.39	0.49
5:M:480:U:O2'	5:M:481:U:C5'	2.61	0.49
5:M:487:U:C2	5:M:488:U:C6	3.00	0.49
6:N:362:U:H2'	6:N:363:U:O5'	2.12	0.49
1:I:16:A:N1	1:I:17:A:C5	2.81	0.48
1:I:102:A:C4	1:I:103:A:C5	3.01	0.48
1:I:151:A:C2	1:I:152:A:C4	3.01	0.48
1:I:231:A:N3	1:I:232:A:C8	2.79	0.48
1:I:241:A:N1	1:I:242:A:C6	2.81	0.48
1:I:261:A:N3	1:I:262:A:C8	2.81	0.48
1:I:274:A:N3	1:I:275:A:N9	2.59	0.48
1:I:306:A:N6	4:L:520:U:O4	2.46	0.48
1:I:325:A:C4	1:I:326:A:N7	2.81	0.48
2:J:27:A:H2'	2:J:28:A:H8	1.77	0.48
2:J:91:A:N1	2:J:92:A:C5	2.81	0.48
2:J:99:A:C5	2:J:100:A:N7	2.80	0.48
2:J:108:A:C5	2:J:109:A:N7	2.81	0.48
2:J:124:A:H2'	2:J:125:A:O5'	2.13	0.48
2:J:202:A:C2	2:J:203:A:N7	2.79	0.48
3:K:122:A:N6	6:N:410:U:O4	2.46	0.48
3:K:256:A:H2'	3:K:257:A:C5'	2.42	0.48
4:L:565:U:O2	4:L:566:U:C6	2.66	0.48
4:L:648:U:O4	4:L:649:U:O4	2.30	0.48
4:L:655:U:N3	4:L:656:U:C5	2.81	0.48
4:L:714:U:O2'	4:L:715:U:H5'	2.12	0.48
4:L:764:U:C2'	4:L:765:U:C5'	2.91	0.48
5:M:469:U:O2'	5:M:470:U:O5'	2.31	0.48
5:M:475:U:C2	5:M:476:U:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:502:U:C2'	5:M:503:U:O5'	2.59	0.48
5:M:514:U:N3	5:M:515:U:C5	2.80	0.48
5:M:522:U:C2'	5:M:523:U:O5'	2.61	0.48
6:N:278:U:O2'	6:N:279:U:H5'	2.12	0.48
6:N:325:U:C3'	6:N:326:U:P	2.96	0.48
6:N:413:U:N3	6:N:414:U:C4	2.81	0.48
6:N:441:U:C2'	6:N:442:U:C5'	2.91	0.48
1:I:12:A:H2'	1:I:13:A:H8	1.77	0.48
1:I:45:A:N1	1:I:46:A:C5	2.82	0.48
1:I:52:A:O2'	1:I:53:A:C5'	2.39	0.48
1:I:59:A:H2'	1:I:60:A:O5'	2.12	0.48
1:I:115:A:H2'	1:I:116:A:O5'	2.11	0.48
1:I:189:A:C2'	1:I:190:A:O5'	2.60	0.48
1:I:259:A:C6	1:I:260:A:C5	3.01	0.48
1:I:304:A:C2'	1:I:305:A:H5'	2.43	0.48
1:I:332:A:C2'	1:I:333:A:C5'	2.91	0.48
1:I:356:A:N6	1:I:357:A:N6	2.61	0.48
2:J:33:A:N6	2:J:34:A:N6	2.60	0.48
2:J:48:A:C2	2:J:49:A:C4	3.01	0.48
2:J:104:A:C2'	2:J:105:A:O5'	2.61	0.48
2:J:108:A:C2	2:J:109:A:N9	2.81	0.48
2:J:135:A:C6	2:J:136:A:C6	3.01	0.48
2:J:190:A:C5	2:J:191:A:N7	2.81	0.48
2:J:198:A:C2'	2:J:199:A:O5'	2.61	0.48
2:J:221:A:C2	2:J:222:A:N9	2.81	0.48
3:K:74:A:O3'	3:K:75:A:H5'	2.14	0.48
3:K:88:A:N1	3:K:89:A:N7	2.61	0.48
3:K:154:A:H2'	3:K:155:A:C1'	2.40	0.48
3:K:189:A:N6	3:K:190:A:H62	2.10	0.48
3:K:249:A:C2'	3:K:250:A:O5'	2.60	0.48
3:K:250:A:C2	3:K:251:A:C4	3.01	0.48
4:L:635:U:H2'	4:L:636:U:C5'	2.43	0.48
4:L:646:U:C2'	4:L:647:U:O5'	2.61	0.48
4:L:658:U:H2'	4:L:659:U:O5'	2.13	0.48
4:L:682:U:O2'	4:L:683:U:O4'	2.31	0.48
4:L:773:U:O2'	4:L:774:U:H5'	2.13	0.48
4:L:777:U:H2'	4:L:778:U:C4'	2.43	0.48
4:L:787:U:O2	4:L:788:U:C6	2.66	0.48
4:L:818:U:H2'	4:L:819:U:H6	1.78	0.48
5:M:299:U:H2'	5:M:300:U:C5'	2.42	0.48
5:M:354:U:C2	5:M:355:U:H5	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:400:U:C2	5:M:401:U:C5	3.00	0.48
5:M:433:U:N1	5:M:434:U:C5	2.80	0.48
5:M:454:U:C6	5:M:455:U:C5	3.01	0.48
5:M:461:U:H2'	5:M:462:U:C5'	2.43	0.48
6:N:291:U:H2'	6:N:292:U:C6	2.45	0.48
6:N:293:U:H2'	6:N:294:U:O4'	2.13	0.48
6:N:368:U:C2	6:N:369:U:C6	3.02	0.48
6:N:369:U:C2	6:N:370:U:C5	3.01	0.48
6:N:391:U:O2'	6:N:392:U:C5'	2.61	0.48
6:N:452:U:C2'	6:N:453:U:H5'	2.43	0.48
1:I:38:A:C2	1:I:39:A:N9	2.81	0.48
1:I:49:A:C2'	1:I:50:A:C5'	2.91	0.48
1:I:53:A:H2'	1:I:54:A:H8	1.78	0.48
1:I:123:A:H2'	1:I:124:A:H8	1.78	0.48
1:I:193:A:C2	1:I:194:A:N9	2.81	0.48
1:I:297:A:N6	1:I:298:A:N6	2.61	0.48
1:I:334:A:C6	1:I:335:A:N7	2.81	0.48
2:J:15:A:N3	2:J:16:A:C8	2.82	0.48
2:J:18:A:C2	2:J:19:A:C4	3.01	0.48
2:J:64:A:C6	2:J:65:A:N6	2.81	0.48
2:J:87:A:N1	2:J:88:A:C5	2.80	0.48
2:J:125:A:C4	2:J:126:A:N7	2.81	0.48
2:J:174:A:N3	2:J:175:A:C8	2.82	0.48
2:J:183:A:C5	2:J:184:A:C8	3.01	0.48
3:K:36:A:N6	3:K:37:A:N6	2.60	0.48
3:K:72:A:H2'	3:K:73:A:C8	2.48	0.48
3:K:100:A:H2'	3:K:101:A:H8	1.79	0.48
3:K:101:A:H61	3:K:102:A:N6	2.09	0.48
4:L:569:U:C2'	4:L:570:U:C5'	2.92	0.48
4:L:592:U:O2	4:L:593:U:C6	2.66	0.48
4:L:595:U:C2'	4:L:596:U:O4'	2.61	0.48
4:L:613:U:H2'	4:L:614:U:C6	2.46	0.48
4:L:627:U:C2'	4:L:628:U:O5'	2.61	0.48
4:L:668:U:H2'	4:L:669:U:C5	2.38	0.48
4:L:702:U:O2	4:L:703:U:C6	2.66	0.48
4:L:747:U:N3	4:L:748:U:C4	2.81	0.48
4:L:763:U:C4	4:L:764:U:C5	3.01	0.48
4:L:763:U:C4	4:L:764:U:C4	3.01	0.48
4:L:769:U:C2	4:L:770:U:C5	3.01	0.48
4:L:774:U:C2	4:L:775:U:H5	2.24	0.48
5:M:391:U:C2'	5:M:392:U:O5'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:476:U:N3	5:M:477:U:C5	2.81	0.48
6:N:352:U:H2'	6:N:353:U:O4'	2.13	0.48
6:N:460:U:O2	6:N:461:U:C6	2.66	0.48
6:N:461:U:C4	6:N:462:U:O4	2.66	0.48
6:N:496:U:O2'	6:N:497:U:C4'	2.62	0.48
1:I:16:A:C6	1:I:17:A:C6	3.02	0.48
1:I:130:A:C2	1:I:131:A:C4	3.01	0.48
1:I:132:A:C3'	1:I:133:A:H5'	2.00	0.48
1:I:134:A:H2'	1:I:135:A:C8	2.47	0.48
1:I:240:A:H2'	1:I:241:A:O5'	2.14	0.48
1:I:243:A:N6	1:I:244:A:C6	2.71	0.48
1:I:244:A:N1	1:I:245:A:C5	2.81	0.48
1:I:321:A:N3	1:I:322:A:C8	2.81	0.48
1:I:354:A:C5	1:I:355:A:N7	2.81	0.48
2:J:5:A:H2'	2:J:6:A:H8	1.77	0.48
2:J:14:A:N1	2:J:15:A:C5	2.81	0.48
2:J:102:A:C6	2:J:103:A:N6	2.81	0.48
2:J:108:A:C2	2:J:109:A:C5	3.02	0.48
2:J:128:A:C2	5:M:426:U:C2	3.01	0.48
2:J:182:A:N1	2:J:183:A:C5	2.81	0.48
2:J:186:A:N6	2:J:187:A:N6	2.62	0.48
2:J:197:A:N3	2:J:198:A:C8	2.81	0.48
2:J:220:A:C6	2:J:221:A:N7	2.81	0.48
2:J:248:A:H62	2:J:249:A:N6	1.95	0.48
3:K:72:A:H2'	3:K:73:A:H8	1.77	0.48
3:K:81:A:H2'	3:K:82:A:O5'	2.13	0.48
3:K:84:A:C2	3:K:85:A:C4	3.01	0.48
3:K:102:A:C6	3:K:103:A:N7	2.82	0.48
3:K:108:A:N1	3:K:109:A:C5	2.82	0.48
3:K:135:A:H2'	3:K:136:A:H8	1.79	0.48
4:L:509:U:C2	4:L:510:U:C6	3.01	0.48
4:L:549:U:C2'	4:L:550:U:H6	2.19	0.48
4:L:599:U:O4	4:L:600:U:O4	2.30	0.48
4:L:699:U:N3	4:L:700:U:C4	2.81	0.48
4:L:746:U:O2	4:L:747:U:N1	2.41	0.48
4:L:765:U:C4	4:L:766:U:C5	3.01	0.48
4:L:779:U:C2	4:L:780:U:C5	3.02	0.48
5:M:322:U:H2'	5:M:323:U:O5'	2.14	0.48
5:M:377:U:C3'	5:M:378:U:C5'	2.70	0.48
5:M:391:U:H2'	5:M:392:U:O5'	2.12	0.48
5:M:526:U:O2	5:M:527:U:C6	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:296:U:N3	6:N:297:U:C5	2.82	0.48
6:N:312:U:C2'	6:N:313:U:H6	2.26	0.48
6:N:395:U:C4	6:N:396:U:C5	3.02	0.48
6:N:401:U:H2'	6:N:402:U:C5'	2.42	0.48
6:N:425:U:C6	6:N:426:U:H5	2.29	0.48
6:N:527:U:C4	6:N:528:U:C5	3.02	0.48
1:I:22:A:H2'	1:I:23:A:O4'	2.12	0.48
1:I:52:A:HO2'	1:I:53:A:H5'	1.73	0.48
1:I:138:A:H2'	1:I:139:A:O5'	2.14	0.48
1:I:269:A:C2	1:I:270:A:N9	2.81	0.48
1:I:273:A:C5	1:I:274:A:C8	3.02	0.48
1:I:342:A:C6	1:I:343:A:N7	2.81	0.48
1:I:388:A:C2	1:I:389:A:C4	3.01	0.48
2:J:45:A:C2	2:J:46:A:C5	3.00	0.48
2:J:48:A:C6	2:J:49:A:C5	3.02	0.48
2:J:54:A:H2'	2:J:55:A:C5'	2.41	0.48
2:J:66:A:H2'	2:J:67:A:C5'	2.42	0.48
2:J:92:A:C2	2:J:93:A:C8	2.90	0.48
2:J:142:A:N1	2:J:143:A:C5	2.81	0.48
2:J:192:A:N1	2:J:193:A:C5	2.81	0.48
2:J:199:A:O2'	2:J:200:A:H5'	2.12	0.48
2:J:200:A:H2'	2:J:201:A:H8	1.78	0.48
2:J:225:A:C2'	2:J:226:A:O5'	2.54	0.48
2:J:234:A:H2'	2:J:235:A:C5'	2.42	0.48
2:J:253:A:C4	2:J:254:A:N7	2.82	0.48
3:K:55:A:N3	3:K:56:A:C8	2.81	0.48
3:K:59:A:H2'	3:K:60:A:H8	1.79	0.48
3:K:86:A:H2'	3:K:87:A:O5'	2.13	0.48
3:K:157:A:C5	3:K:158:A:N7	2.81	0.48
3:K:173:A:C4	3:K:174:A:C8	3.01	0.48
3:K:248:A:C2	3:K:249:A:C8	3.01	0.48
3:K:248:A:N3	3:K:249:A:C8	2.81	0.48
4:L:515:U:C2'	4:L:516:U:H5'	2.43	0.48
4:L:724:U:H2'	4:L:725:U:H6	1.79	0.48
4:L:810:U:H2'	4:L:811:U:C4'	2.43	0.48
5:M:316:U:C4	5:M:317:U:O4	2.66	0.48
5:M:375:U:H2'	5:M:376:U:C6	2.46	0.48
5:M:377:U:C4	5:M:378:U:C5	3.02	0.48
5:M:383:U:H2'	5:M:384:U:H6	1.79	0.48
5:M:400:U:C2'	5:M:401:U:H5'	2.44	0.48
5:M:521:U:C2'	5:M:522:U:C5'	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:382:U:H2'	6:N:383:U:C6	2.48	0.48
6:N:416:U:C1'	6:N:417:U:O4'	2.57	0.48
6:N:454:U:H2'	6:N:455:U:H6	1.78	0.48
6:N:486:U:C2	6:N:487:U:C5	3.01	0.48
1:I:45:A:H2'	1:I:46:A:O5'	2.13	0.48
1:I:59:A:C2'	1:I:60:A:C5'	2.91	0.48
1:I:88:A:C2	1:I:89:A:C5	3.01	0.48
1:I:128:A:O2'	1:I:129:A:H5'	2.14	0.48
1:I:235:A:H2'	1:I:236:A:H8	1.78	0.48
1:I:362:A:H2'	1:I:363:A:C8	2.48	0.48
2:J:63:A:H2'	2:J:64:A:O4'	2.13	0.48
2:J:67:A:C4	2:J:68:A:C8	3.02	0.48
2:J:144:A:H2	2:J:145:A:C4	2.28	0.48
2:J:191:A:C2	2:J:192:A:N9	2.81	0.48
3:K:100:A:C2	3:K:101:A:C8	3.02	0.48
3:K:102:A:N6	6:N:430:U:O4	2.47	0.48
3:K:119:A:H2'	3:K:120:A:O4'	2.13	0.48
4:L:434:U:O2'	4:L:435:U:H5'	2.13	0.48
4:L:461:U:C2	4:L:462:U:C6	3.02	0.48
4:L:471:U:H2'	4:L:472:U:H6	1.77	0.48
4:L:619:U:C2	4:L:620:U:C6	3.01	0.48
4:L:712:U:N3	4:L:713:U:C6	2.81	0.48
5:M:321:U:N3	5:M:322:U:C5	2.82	0.48
5:M:330:U:C2	5:M:331:U:C6	3.02	0.48
5:M:334:U:H2'	5:M:335:U:H6	1.78	0.48
5:M:381:U:C2'	5:M:382:U:H6	2.13	0.48
5:M:393:U:C2	5:M:394:U:C6	3.02	0.48
5:M:402:U:H2'	5:M:403:U:H6	1.79	0.48
5:M:419:U:C2'	5:M:420:U:O4'	2.60	0.48
5:M:501:U:C4	5:M:502:U:C4	3.02	0.48
5:M:524:U:C2	5:M:525:U:H5	2.25	0.48
6:N:278:U:C4	6:N:279:U:H5	2.28	0.48
6:N:429:U:H2'	6:N:430:U:C6	2.46	0.48
6:N:439:U:C4	6:N:440:U:C4	3.02	0.48
6:N:502:U:H2'	6:N:503:U:C6	2.48	0.48
6:N:520:U:C3'	6:N:521:U:P	2.96	0.48
1:I:30:A:C2'	1:I:31:A:C5'	2.91	0.48
1:I:87:A:N1	1:I:88:A:C5	2.82	0.48
1:I:94:A:C2	1:I:95:A:C8	3.01	0.48
1:I:200:A:C2	1:I:201:A:C8	3.02	0.48
1:I:232:A:C2	1:I:233:A:N9	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:262:A:C5	1:I:263:A:N7	2.81	0.48
1:I:298:A:H2'	1:I:299:A:C8	2.48	0.48
2:J:5:A:N6	2:J:6:A:H62	2.09	0.48
2:J:18:A:C4	2:J:19:A:C8	3.02	0.48
2:J:48:A:H2'	2:J:49:A:C5'	2.43	0.48
2:J:52:A:O2'	2:J:53:A:H5'	2.12	0.48
2:J:56:A:N1	2:J:57:A:C4	2.81	0.48
2:J:191:A:N3	2:J:192:A:C8	2.81	0.48
2:J:198:A:N1	2:J:199:A:C5	2.82	0.48
2:J:200:A:H2'	2:J:201:A:O5'	2.13	0.48
2:J:207:A:H2'	2:J:208:A:C5'	2.44	0.48
2:J:222:A:N1	2:J:223:A:C4	2.82	0.48
2:J:245:A:C2'	2:J:246:A:C5'	2.91	0.48
3:K:35:A:H2'	3:K:36:A:H8	1.77	0.48
3:K:63:A:C2	3:K:64:A:C8	3.01	0.48
3:K:93:A:C5	3:K:94:A:N7	2.82	0.48
3:K:107:A:C4	3:K:108:A:C8	3.01	0.48
3:K:131:A:C6	3:K:132:A:N7	2.81	0.48
3:K:153:A:H2'	3:K:154:A:C8	2.39	0.48
3:K:165:A:C2	3:K:166:A:C1'	2.97	0.48
4:L:527:U:C2	4:L:528:U:C5	3.01	0.48
4:L:631:U:H2'	4:L:632:U:H6	1.78	0.48
4:L:713:U:C4	4:L:714:U:C4	3.02	0.48
4:L:781:U:H2'	4:L:782:U:C6	2.46	0.48
4:L:782:U:N3	4:L:783:U:C5	2.81	0.48
4:L:811:U:C4	4:L:812:U:O4	2.66	0.48
4:L:820:U:C2'	4:L:821:U:C6	2.84	0.48
5:M:367:U:O2'	5:M:368:U:H5'	2.13	0.48
5:M:424:U:H2'	5:M:425:U:H6	1.79	0.48
5:M:428:U:H2'	5:M:429:U:C6	2.45	0.48
5:M:481:U:N3	5:M:482:U:O4	2.46	0.48
5:M:488:U:C6	5:M:489:U:C5	3.02	0.48
6:N:286:U:H2'	6:N:287:U:H6	1.79	0.48
6:N:322:U:O4	6:N:323:U:O4	2.31	0.48
6:N:325:U:H2'	6:N:326:U:H6	1.74	0.48
6:N:329:U:C2	6:N:330:U:C5	3.01	0.48
6:N:334:U:H2'	6:N:335:U:H6	1.79	0.48
6:N:395:U:H2'	6:N:396:U:O5'	2.14	0.48
6:N:490:U:C4	6:N:491:U:C5	3.02	0.48
6:N:510:U:HO3'	6:N:511:U:P	2.29	0.48
6:N:512:U:N3	6:N:513:U:C4	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:26:A:C6	1:I:27:A:N7	2.82	0.48
1:I:50:A:N3	1:I:51:A:C8	2.82	0.48
1:I:166:A:H2'	1:I:167:A:C5'	2.44	0.48
1:I:178:A:C2	1:I:179:A:C8	3.01	0.48
1:I:199:A:C4	1:I:200:A:C8	3.01	0.48
1:I:206:A:O2'	1:I:207:A:C5'	2.62	0.48
1:I:290:A:N6	1:I:291:A:N6	2.62	0.48
1:I:307:A:C2	1:I:308:A:C4	3.01	0.48
1:I:384:A:HO3'	1:I:385:A:P	2.33	0.48
1:I:403:A:HO2'	1:I:404:A:C4'	2.26	0.48
2:J:33:A:N3	2:J:34:A:C8	2.82	0.48
2:J:52:A:C2'	2:J:53:A:H5'	2.44	0.48
2:J:55:A:N6	2:J:56:A:H62	2.11	0.48
2:J:59:A:H2'	2:J:60:A:O5'	2.14	0.48
2:J:68:A:C6	2:J:69:A:C5	3.01	0.48
2:J:90:A:N1	2:J:91:A:C5	2.82	0.48
2:J:96:A:C2'	2:J:97:A:C5'	2.92	0.48
2:J:96:A:C2	2:J:97:A:C5	3.02	0.48
2:J:135:A:H61	2:J:136:A:N6	2.06	0.48
2:J:159:A:N1	2:J:160:A:C6	2.82	0.48
2:J:160:A:N3	2:J:161:A:C8	2.82	0.48
2:J:186:A:O2'	2:J:187:A:H5'	2.13	0.48
2:J:198:A:N3	2:J:199:A:C8	2.82	0.48
2:J:210:A:C6	2:J:211:A:C5	3.01	0.48
2:J:217:A:C2	2:J:218:A:C5	3.01	0.48
2:J:234:A:C2'	2:J:235:A:O5'	2.60	0.48
2:J:263:A:N6	2:J:264:A:N6	2.61	0.48
3:K:55:A:C2	3:K:56:A:C5	3.02	0.48
3:K:83:A:C2	3:K:84:A:N7	2.82	0.48
3:K:99:A:N1	3:K:100:A:C5	2.82	0.48
3:K:106:A:C6	3:K:107:A:C5	3.01	0.48
3:K:135:A:C4	3:K:136:A:N7	2.82	0.48
3:K:136:A:N3	3:K:137:A:N9	2.62	0.48
4:L:459:U:C2'	4:L:460:U:O5'	2.61	0.48
4:L:496:U:O2'	4:L:497:U:C5'	2.56	0.48
4:L:510:U:C2'	4:L:511:U:O5'	2.61	0.48
4:L:527:U:H2'	4:L:528:U:C6	2.49	0.48
4:L:587:U:O2'	4:L:588:U:O4'	2.32	0.48
4:L:614:U:C2	4:L:615:U:C5	3.02	0.48
4:L:673:U:H2'	4:L:674:U:H6	1.79	0.48
4:L:706:U:C2'	4:L:707:U:C5'	2.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:727:U:C2	4:L:728:U:C6	3.01	0.48
4:L:734:U:C2'	4:L:735:U:O5'	2.58	0.48
5:M:342:U:O2'	5:M:343:U:H5'	2.13	0.48
5:M:374:U:N3	5:M:375:U:C5	2.82	0.48
5:M:414:U:N3	5:M:415:U:C4	2.82	0.48
5:M:463:U:H2'	5:M:464:U:O4'	2.13	0.48
5:M:474:U:C2	5:M:475:U:C5	3.01	0.48
5:M:513:U:C2'	5:M:514:U:O5'	2.61	0.48
6:N:326:U:N3	6:N:327:U:O4	2.45	0.48
6:N:327:U:C3'	6:N:328:U:C5'	2.67	0.48
1:I:42:A:C2	1:I:43:A:C5	3.02	0.48
1:I:56:A:N3	1:I:57:A:N9	2.61	0.48
1:I:131:A:C6	1:I:132:A:N7	2.82	0.48
1:I:152:A:N6	1:I:153:A:H62	2.07	0.48
1:I:196:A:H2'	1:I:197:A:C5'	2.44	0.48
1:I:222:A:H2'	1:I:223:A:H8	1.79	0.48
1:I:243:A:N1	1:I:244:A:C6	2.82	0.48
1:I:284:A:C4	1:I:285:A:C8	3.01	0.48
1:I:303:A:C2	1:I:304:A:N9	2.81	0.48
2:J:65:A:N1	2:J:66:A:C5	2.82	0.48
2:J:100:A:H2'	2:J:101:A:H8	1.77	0.48
2:J:120:A:C2'	2:J:121:A:O5'	2.62	0.48
2:J:203:A:C2	2:J:204:A:C8	3.02	0.48
2:J:221:A:C4	2:J:222:A:C8	3.02	0.48
2:J:230:A:H2'	2:J:231:A:C8	2.49	0.48
3:K:56:A:C2'	3:K:57:A:H5'	2.44	0.48
3:K:62:A:C4	3:K:63:A:N7	2.82	0.48
3:K:100:A:H2'	3:K:101:A:C8	2.48	0.48
3:K:105:A:N9	3:K:106:A:C8	2.81	0.48
3:K:154:A:O2'	3:K:155:A:O4'	2.32	0.48
4:L:478:U:H2'	4:L:479:U:O5'	2.13	0.48
4:L:488:U:C2'	4:L:489:U:O5'	2.61	0.48
4:L:499:U:H2'	4:L:500:U:C6	2.48	0.48
4:L:540:U:C2	4:L:541:U:C6	3.02	0.48
4:L:615:U:C2	4:L:616:U:C5	3.02	0.48
4:L:728:U:H2'	4:L:729:U:H6	1.79	0.48
4:L:742:U:H2'	4:L:743:U:H5	1.78	0.48
4:L:753:U:N3	4:L:754:U:C5	2.82	0.48
4:L:772:U:C2	4:L:773:U:C5	3.01	0.48
4:L:805:U:C2	4:L:806:U:C6	3.01	0.48
5:M:285:U:N3	5:M:286:U:C5	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:294:U:H2'	5:M:295:U:H6	1.78	0.48
5:M:304:U:H2'	5:M:305:U:H6	1.79	0.48
5:M:334:U:C4	5:M:335:U:C5	3.02	0.48
5:M:365:U:N3	5:M:366:U:C5	2.82	0.48
5:M:400:U:H2'	5:M:401:U:H6	1.77	0.48
5:M:454:U:O4	5:M:455:U:O4	2.31	0.48
5:M:521:U:C2	5:M:522:U:C6	3.02	0.48
5:M:547:U:C4	5:M:548:U:O4	2.67	0.48
6:N:341:U:H3'	6:N:342:U:OP2	2.14	0.48
6:N:482:U:C2	6:N:483:U:C6	3.02	0.48
1:I:14:A:N3	1:I:15:A:N9	2.62	0.48
1:I:38:A:C4	1:I:39:A:C8	3.01	0.48
1:I:43:A:N6	1:I:44:A:N6	2.61	0.48
1:I:52:A:N3	1:I:53:A:C8	2.81	0.48
1:I:81:A:HO2'	1:I:82:A:C5'	2.02	0.48
1:I:132:A:N3	1:I:133:A:N9	2.62	0.48
1:I:198:A:C4	1:I:199:A:N7	2.82	0.48
1:I:232:A:C2'	1:I:233:A:C4'	2.86	0.48
1:I:244:A:C2	1:I:245:A:N9	2.82	0.48
1:I:264:A:H2'	1:I:265:A:O5'	2.14	0.48
1:I:270:A:C2	1:I:271:A:C1'	2.97	0.48
1:I:404:A:N6	1:I:405:A:H62	2.11	0.48
2:J:59:A:C2'	2:J:60:A:H5'	2.44	0.48
2:J:116:A:C4	2:J:117:A:N7	2.82	0.48
2:J:166:A:O2'	2:J:167:A:O5'	2.31	0.48
2:J:184:A:HO2'	2:J:185:A:H5'	1.63	0.48
2:J:203:A:O2'	2:J:204:A:C5'	2.56	0.48
2:J:237:A:H2'	2:J:238:A:H8	1.78	0.48
2:J:253:A:N3	2:J:254:A:C8	2.82	0.48
2:J:265:A:N3	2:J:266:A:N9	2.57	0.48
2:J:266:A:C2	2:J:267:A:C8	3.02	0.48
3:K:64:A:H2'	3:K:65:A:H8	1.79	0.48
3:K:102:A:C2	3:K:103:A:C4	3.02	0.48
4:L:646:U:H2'	4:L:647:U:O5'	2.14	0.48
4:L:647:U:O2'	4:L:648:U:C4'	2.62	0.48
4:L:784:U:H2'	4:L:785:U:C6	2.48	0.48
4:L:798:U:N3	4:L:799:U:C5	2.82	0.48
4:L:803:U:O2'	4:L:804:U:O4'	2.30	0.48
5:M:324:U:C2'	5:M:325:U:C5'	2.92	0.48
5:M:346:U:N3	5:M:347:U:C5	2.82	0.48
5:M:450:U:C2'	5:M:451:U:H6	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:454:U:C4	5:M:455:U:O4	2.67	0.48
6:N:378:U:H2'	6:N:379:U:H6	1.79	0.48
6:N:430:U:C4	6:N:431:U:C5	3.02	0.48
6:N:505:U:H2'	6:N:506:U:H6	1.78	0.48
1:I:15:A:C5	1:I:16:A:C8	3.01	0.47
1:I:52:A:C2	1:I:53:A:C4	3.01	0.47
1:I:67:A:H61	1:I:68:A:N6	2.00	0.47
1:I:77:A:C2	1:I:78:A:C5	3.03	0.47
1:I:114:A:C5	1:I:115:A:N7	2.81	0.47
1:I:223:A:N1	1:I:224:A:C5	2.82	0.47
1:I:311:A:H2'	1:I:312:A:C5'	2.43	0.47
1:I:326:A:N3	1:I:327:A:C8	2.82	0.47
2:J:62:A:C2	2:J:63:A:C4	3.02	0.47
2:J:146:A:C2	2:J:147:A:C4	3.02	0.47
2:J:188:A:O2'	2:J:189:A:H5'	2.13	0.47
3:K:64:A:C2	3:K:65:A:C4	3.02	0.47
3:K:68:A:N3	3:K:69:A:C8	2.82	0.47
3:K:86:A:N3	3:K:87:A:C8	2.81	0.47
3:K:101:A:H2'	3:K:102:A:C5'	2.44	0.47
3:K:108:A:H2'	3:K:109:A:H8	1.79	0.47
3:K:118:A:C2	3:K:119:A:C1'	2.97	0.47
3:K:249:A:C2'	3:K:250:A:C5'	2.92	0.47
4:L:509:U:C2'	4:L:510:U:O4'	2.61	0.47
4:L:534:U:N3	4:L:535:U:C5	2.82	0.47
4:L:539:U:H2'	4:L:540:U:C6	2.49	0.47
4:L:562:U:O2'	4:L:563:U:C5'	2.58	0.47
4:L:736:U:H2'	4:L:737:U:H6	1.79	0.47
4:L:771:U:O2	4:L:772:U:C6	2.67	0.47
4:L:810:U:C2'	4:L:811:U:O5'	2.51	0.47
5:M:301:U:H2'	5:M:302:U:H6	1.78	0.47
5:M:350:U:O2	5:M:351:U:O4'	2.32	0.47
5:M:394:U:N3	5:M:395:U:C5	2.81	0.47
5:M:424:U:N3	5:M:425:U:C5	2.81	0.47
5:M:430:U:C2	5:M:431:U:C4	3.01	0.47
5:M:461:U:H2'	5:M:462:U:H6	1.78	0.47
5:M:477:U:H2'	5:M:478:U:O5'	2.13	0.47
5:M:499:U:C2	5:M:500:U:C6	3.02	0.47
5:M:528:U:H2'	5:M:529:U:O5'	2.14	0.47
5:M:530:U:C4	5:M:531:U:C5	3.02	0.47
6:N:277:U:O2	6:N:278:U:C6	2.67	0.47
6:N:332:U:C2'	6:N:333:U:C6	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:369:U:O2'	6:N:370:U:H5'	2.15	0.47
6:N:402:U:C2	6:N:403:U:C6	3.01	0.47
6:N:424:U:C2'	6:N:425:U:C5'	2.92	0.47
6:N:451:U:O2'	6:N:452:U:H5'	2.14	0.47
6:N:492:U:C2'	6:N:493:U:O5'	2.62	0.47
1:I:9:A:C2'	1:I:10:A:O5'	2.61	0.47
1:I:30:A:C2'	1:I:31:A:O5'	2.61	0.47
1:I:73:A:C2	1:I:74:A:N9	2.80	0.47
1:I:122:A:H2'	1:I:123:A:O5'	2.13	0.47
1:I:220:A:C2	1:I:221:A:C5	3.01	0.47
1:I:248:A:H2'	1:I:249:A:H8	1.79	0.47
1:I:251:A:C2'	1:I:252:A:H5'	2.43	0.47
1:I:269:A:C2'	1:I:270:A:C4'	2.88	0.47
1:I:276:A:C2	1:I:277:A:C5	3.03	0.47
2:J:157:A:C2	2:J:158:A:C5	3.02	0.47
2:J:174:A:H2'	2:J:175:A:C8	2.43	0.47
3:K:69:A:C6	3:K:70:A:N6	2.82	0.47
3:K:91:A:C2	3:K:92:A:C5	3.01	0.47
3:K:142:A:C2	3:K:143:A:C8	3.03	0.47
3:K:188:A:HO2'	3:K:189:A:H5'	1.75	0.47
4:L:433:U:C2	4:L:434:U:C5	3.02	0.47
4:L:479:U:N3	4:L:480:U:C5	2.83	0.47
4:L:488:U:C2	4:L:489:U:C6	3.02	0.47
4:L:571:U:N3	4:L:572:U:C5	2.82	0.47
4:L:573:U:H2'	4:L:574:U:O4'	2.13	0.47
4:L:606:U:C2'	4:L:607:U:C5'	2.92	0.47
4:L:625:U:N3	4:L:626:U:C5	2.82	0.47
4:L:705:U:N3	4:L:706:U:C5	2.82	0.47
4:L:745:U:C2	4:L:746:U:C6	2.93	0.47
4:L:759:U:H2'	4:L:760:U:O4'	2.13	0.47
5:M:290:U:H2'	5:M:291:U:C5'	2.43	0.47
5:M:324:U:O2'	5:M:325:U:H5'	2.14	0.47
5:M:392:U:C3'	5:M:393:U:H5'	2.04	0.47
5:M:396:U:O2'	5:M:397:U:C4'	2.62	0.47
5:M:429:U:O2'	5:M:430:U:O4'	2.31	0.47
5:M:436:U:C4	5:M:437:U:C5	3.02	0.47
5:M:472:U:N3	5:M:473:U:C5	2.82	0.47
5:M:546:U:C4	5:M:547:U:C5	3.02	0.47
6:N:339:U:C2'	6:N:340:U:O4'	2.62	0.47
6:N:398:U:C2	6:N:399:U:C5	3.02	0.47
6:N:413:U:H2'	6:N:414:U:C6	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:473:U:N1	6:N:474:U:C5	2.82	0.47
1:I:14:A:H2'	1:I:15:A:C4'	2.24	0.47
1:I:102:A:C2	1:I:103:A:C5	3.02	0.47
1:I:115:A:C2	1:I:116:A:N7	2.82	0.47
1:I:194:A:C6	1:I:195:A:N7	2.82	0.47
1:I:197:A:C2	1:I:198:A:N9	2.82	0.47
1:I:213:A:C2	1:I:214:A:C4	3.02	0.47
1:I:262:A:C6	1:I:263:A:N7	2.82	0.47
1:I:272:A:N1	1:I:273:A:C6	2.82	0.47
1:I:300:A:C2	1:I:301:A:C4	3.03	0.47
1:I:338:A:C6	1:I:339:A:C5	3.02	0.47
1:I:359:A:H61	1:I:360:A:N6	2.07	0.47
2:J:27:A:C2	2:J:28:A:N7	2.83	0.47
2:J:33:A:C4	2:J:34:A:N7	2.82	0.47
2:J:40:A:C4	2:J:41:A:C8	3.02	0.47
2:J:48:A:C2	5:M:506:U:C2	3.02	0.47
2:J:49:A:C2	2:J:50:A:C5	3.02	0.47
2:J:124:A:C2'	2:J:125:A:C5'	2.87	0.47
2:J:137:A:N3	2:J:138:A:C8	2.82	0.47
2:J:203:A:C4	2:J:204:A:N7	2.82	0.47
2:J:266:A:C4	2:J:267:A:C8	3.03	0.47
3:K:6:A:C6	3:K:7:A:C5	3.02	0.47
3:K:29:A:H2'	3:K:30:A:C8	2.50	0.47
3:K:50:A:H2'	3:K:51:A:H8	1.79	0.47
3:K:165:A:C2'	3:K:166:A:C4'	2.88	0.47
3:K:239:A:HO2'	3:K:240:A:H5'	1.71	0.47
3:K:252:A:H3'	3:K:253:A:OP2	2.13	0.47
4:L:462:U:N3	4:L:463:U:O4	2.47	0.47
4:L:478:U:N3	4:L:479:U:C5	2.82	0.47
4:L:506:U:C2'	4:L:507:U:O5'	2.62	0.47
4:L:579:U:O2	4:L:580:U:C6	2.67	0.47
4:L:614:U:N3	4:L:615:U:C5	2.83	0.47
4:L:652:U:H2'	4:L:653:U:O5'	2.15	0.47
4:L:669:U:O2'	4:L:670:U:C5'	2.48	0.47
4:L:669:U:HO2'	4:L:670:U:H5'	1.75	0.47
4:L:670:U:H2'	4:L:671:U:O4'	2.14	0.47
4:L:721:U:O2	4:L:722:U:C6	2.67	0.47
4:L:733:U:C2'	4:L:734:U:H5'	2.40	0.47
4:L:797:U:C2	4:L:798:U:C6	3.03	0.47
5:M:288:U:C4	5:M:289:U:C5	3.02	0.47
5:M:300:U:HO2'	5:M:301:U:H5'	1.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:341:U:H2'	5:M:342:U:H6	1.79	0.47
5:M:369:U:C2	5:M:370:U:C5	3.02	0.47
5:M:431:U:H2'	5:M:432:U:H6	1.79	0.47
5:M:440:U:H2'	5:M:441:U:H6	1.79	0.47
5:M:521:U:H2'	5:M:522:U:C6	2.45	0.47
5:M:536:U:H2'	5:M:537:U:O5'	2.13	0.47
6:N:356:U:O2'	6:N:357:U:H5'	2.14	0.47
6:N:404:U:H2'	6:N:405:U:H6	1.79	0.47
6:N:435:U:C2	6:N:436:U:C6	3.02	0.47
6:N:481:U:O2	6:N:482:U:C1'	2.63	0.47
6:N:490:U:O4	6:N:491:U:O4	2.32	0.47
1:I:19:A:C6	1:I:20:A:C5	3.02	0.47
1:I:31:A:C2	1:I:32:A:C8	3.02	0.47
1:I:41:A:H2'	1:I:42:A:C8	2.41	0.47
1:I:137:A:C2'	1:I:138:A:H5'	2.45	0.47
1:I:176:A:N6	1:I:177:A:N6	2.63	0.47
1:I:272:A:C6	1:I:273:A:C5	3.02	0.47
1:I:330:A:H2'	1:I:331:A:O5'	2.14	0.47
1:I:338:A:C6	1:I:339:A:C6	3.02	0.47
1:I:361:A:HO2'	1:I:362:A:C4'	2.26	0.47
1:I:381:A:H2'	1:I:382:A:H8	1.77	0.47
1:I:405:A:H2'	1:I:406:A:C8	2.49	0.47
2:J:50:A:C4	2:J:51:A:C8	3.02	0.47
2:J:80:A:N6	2:J:81:A:N6	2.62	0.47
2:J:90:A:C2	2:J:91:A:C5	3.01	0.47
2:J:108:A:H2'	2:J:109:A:O5'	2.14	0.47
2:J:248:A:C6	2:J:249:A:N7	2.81	0.47
2:J:252:A:H2'	2:J:253:A:C5'	2.44	0.47
3:K:43:A:N6	3:K:44:A:H61	2.01	0.47
3:K:72:A:C5	3:K:73:A:N7	2.83	0.47
4:L:424:U:C4	4:L:425:U:C5	3.03	0.47
4:L:459:U:H2'	4:L:460:U:C4'	2.43	0.47
4:L:497:U:C2'	4:L:498:U:O4'	2.55	0.47
4:L:524:U:C2	4:L:525:U:C5	3.03	0.47
4:L:530:U:C2'	4:L:531:U:C5'	2.92	0.47
4:L:586:U:C2	4:L:587:U:C6	3.02	0.47
4:L:669:U:C2	4:L:670:U:C5	3.02	0.47
4:L:700:U:H2'	4:L:701:U:H6	1.79	0.47
4:L:778:U:C4	4:L:779:U:C5	3.03	0.47
4:L:813:U:C2	4:L:814:U:C6	3.01	0.47
5:M:300:U:H2'	5:M:301:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:376:U:H2'	5:M:377:U:C6	2.47	0.47
5:M:385:U:H2'	5:M:386:U:H6	1.80	0.47
5:M:466:U:N3	5:M:467:U:C6	2.82	0.47
5:M:525:U:O2	5:M:526:U:C6	2.66	0.47
5:M:544:U:C2'	5:M:545:U:O5'	2.61	0.47
6:N:365:U:H2'	6:N:366:U:H6	1.79	0.47
6:N:391:U:H2'	6:N:392:U:H6	1.79	0.47
6:N:411:U:O2'	6:N:412:U:P	2.64	0.47
6:N:470:U:HO2'	6:N:471:U:H5'	1.79	0.47
1:I:30:A:C2	1:I:31:A:C5	3.02	0.47
1:I:83:A:C6	1:I:84:A:N7	2.82	0.47
1:I:107:A:C2'	1:I:108:A:H8	2.22	0.47
1:I:115:A:C4	1:I:116:A:C8	3.02	0.47
1:I:121:A:N6	1:I:122:A:N6	2.62	0.47
1:I:121:A:H2'	1:I:122:A:H8	1.78	0.47
1:I:199:A:C2	1:I:200:A:C8	3.02	0.47
1:I:214:A:O2'	1:I:215:A:H5'	2.14	0.47
1:I:237:A:C2	4:L:589:U:C2	3.03	0.47
1:I:305:A:C4	1:I:306:A:C8	3.03	0.47
1:I:333:A:N3	1:I:334:A:H1'	2.14	0.47
1:I:376:A:H61	1:I:377:A:H61	1.51	0.47
2:J:47:A:H2'	2:J:48:A:O4'	2.13	0.47
2:J:62:A:C2	2:J:63:A:C8	3.03	0.47
2:J:94:A:N1	2:J:95:A:C5	2.83	0.47
2:J:132:A:C4	2:J:133:A:C8	3.02	0.47
2:J:145:A:C2	5:M:409:U:C2	3.02	0.47
2:J:182:A:N1	2:J:183:A:C6	2.83	0.47
2:J:205:A:HO2'	2:J:206:A:C5'	1.94	0.47
2:J:228:A:C2	2:J:229:A:C5	3.02	0.47
3:K:130:A:C2	3:K:131:A:N9	2.83	0.47
3:K:131:A:C6	3:K:132:A:C5	3.03	0.47
3:K:139:A:H2'	3:K:140:A:H8	1.80	0.47
3:K:181:A:C2	3:K:182:A:N9	2.83	0.47
3:K:208:A:H3'	3:K:209:A:OP2	2.14	0.47
3:K:236:A:O2'	3:K:237:A:C5'	2.56	0.47
4:L:436:U:HO2'	4:L:437:U:C4'	2.24	0.47
4:L:483:U:C2'	4:L:484:U:O5'	2.62	0.47
4:L:562:U:N3	4:L:563:U:C5	2.82	0.47
4:L:566:U:C2	4:L:567:U:C5	3.02	0.47
4:L:571:U:O4	4:L:572:U:O4	2.32	0.47
4:L:579:U:C2'	4:L:580:U:C5'	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:640:U:O4	4:L:641:U:O4	2.32	0.47
4:L:707:U:N3	4:L:708:U:C5	2.82	0.47
4:L:790:U:H2'	4:L:791:U:H6	1.79	0.47
5:M:297:U:H2'	5:M:298:U:O5'	2.13	0.47
5:M:338:U:O2'	5:M:339:U:O5'	2.32	0.47
5:M:341:U:O2'	5:M:342:U:C5'	2.50	0.47
5:M:383:U:H2'	5:M:384:U:C6	2.49	0.47
5:M:441:U:O2'	5:M:442:U:C5'	2.46	0.47
5:M:477:U:C2'	5:M:478:U:C5'	2.92	0.47
5:M:482:U:C2	5:M:483:U:C5	3.03	0.47
5:M:502:U:O2	5:M:503:U:C5	2.64	0.47
5:M:535:U:C2'	5:M:536:U:C5'	2.92	0.47
5:M:538:U:N3	5:M:539:U:C4	2.83	0.47
6:N:273:U:O2'	6:N:274:U:H5'	2.14	0.47
6:N:279:U:C4	6:N:280:U:C5	3.03	0.47
6:N:280:U:C2	6:N:281:U:C6	3.02	0.47
6:N:363:U:C2	6:N:364:U:H5	2.24	0.47
6:N:513:U:H2'	6:N:514:U:C6	2.46	0.47
1:I:82:A:N9	1:I:83:A:C8	2.82	0.47
1:I:126:A:H2'	1:I:127:A:H8	1.79	0.47
1:I:181:A:N1	1:I:182:A:C5	2.82	0.47
1:I:185:A:H2'	1:I:186:A:H8	1.80	0.47
1:I:189:A:H2'	1:I:190:A:C8	2.49	0.47
1:I:246:A:H2'	1:I:247:A:O5'	2.15	0.47
1:I:395:A:H2'	1:I:396:A:C8	2.49	0.47
1:I:396:A:H2'	1:I:397:A:H8	1.80	0.47
1:I:403:A:C2	1:I:404:A:C4	3.03	0.47
2:J:50:A:C2	2:J:51:A:N9	2.82	0.47
2:J:57:A:C6	2:J:58:A:N7	2.82	0.47
2:J:70:A:N3	2:J:71:A:N9	2.62	0.47
2:J:146:A:C2'	2:J:147:A:C5'	2.92	0.47
2:J:146:A:N3	2:J:147:A:C8	2.83	0.47
2:J:157:A:C2	2:J:158:A:C4	3.02	0.47
2:J:164:A:O2'	2:J:165:A:H5'	2.15	0.47
2:J:184:A:N1	2:J:185:A:C5	2.83	0.47
2:J:188:A:H2'	2:J:189:A:H8	1.80	0.47
2:J:207:A:N1	2:J:208:A:C5	2.83	0.47
3:K:11:A:C3'	3:K:12:A:P	2.98	0.47
3:K:41:A:C2	3:K:42:A:C8	3.02	0.47
3:K:83:A:H2'	3:K:84:A:H8	1.79	0.47
3:K:87:A:O2'	3:K:88:A:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:96:A:C6	3:K:97:A:C5	3.03	0.47
3:K:168:A:N3	3:K:169:A:C1'	2.77	0.47
3:K:172:A:C2	3:K:173:A:N7	2.82	0.47
3:K:207:A:OP1	6:N:318:U:OP1	2.32	0.47
4:L:423:U:C4	4:L:424:U:C4	3.03	0.47
4:L:438:U:C2	4:L:439:U:C4	3.00	0.47
4:L:505:U:C4	4:L:506:U:C5	3.03	0.47
4:L:557:U:N1	4:L:558:U:C6	2.78	0.47
4:L:585:U:H2'	4:L:586:U:C6	2.41	0.47
4:L:597:U:H2'	4:L:598:U:C6	2.40	0.47
4:L:599:U:C2'	4:L:600:U:C6	2.84	0.47
4:L:606:U:H2'	4:L:607:U:H6	1.80	0.47
4:L:663:U:H2'	4:L:664:U:H6	1.79	0.47
4:L:665:U:H2'	4:L:666:U:H6	1.78	0.47
4:L:699:U:H2'	4:L:700:U:H6	1.79	0.47
4:L:723:U:C2	4:L:724:U:N1	2.83	0.47
5:M:288:U:N3	5:M:289:U:C4	2.83	0.47
5:M:382:U:C2'	5:M:383:U:O5'	2.61	0.47
5:M:421:U:N3	5:M:422:U:C5	2.82	0.47
5:M:473:U:C2	5:M:474:U:C6	3.02	0.47
5:M:487:U:N3	5:M:488:U:C4	2.83	0.47
6:N:317:U:C2'	6:N:318:U:H6	2.13	0.47
6:N:321:U:C2'	6:N:322:U:C6	2.93	0.47
6:N:326:U:C2	6:N:327:U:C4	3.03	0.47
6:N:362:U:H2'	6:N:363:U:C6	2.44	0.47
6:N:491:U:H2'	6:N:492:U:H6	1.80	0.47
6:N:506:U:H2'	6:N:507:U:H6	1.80	0.47
1:I:16:A:C4	1:I:17:A:N7	2.80	0.47
1:I:21:A:O2'	1:I:22:A:C5'	2.60	0.47
1:I:31:A:H2'	1:I:32:A:H8	1.80	0.47
1:I:67:A:N3	1:I:68:A:C8	2.82	0.47
1:I:112:A:N1	1:I:113:A:C5	2.82	0.47
1:I:116:A:C2	1:I:117:A:C5	3.02	0.47
1:I:116:A:C2'	1:I:117:A:C5'	2.92	0.47
1:I:189:A:C2	1:I:190:A:C5	3.03	0.47
1:I:209:A:N3	1:I:210:A:C8	2.82	0.47
1:I:225:A:N6	1:I:226:A:H62	2.12	0.47
1:I:299:A:H2'	1:I:300:A:O5'	2.15	0.47
1:I:318:A:H2'	1:I:319:A:O5'	2.14	0.47
1:I:325:A:C6	1:I:326:A:C6	3.02	0.47
1:I:364:A:C2'	1:I:365:A:O5'	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:396:A:H2'	1:I:397:A:C8	2.48	0.47
2:J:25:A:N1	2:J:26:A:C5	2.83	0.47
2:J:32:A:O2'	2:J:33:A:C5'	2.43	0.47
2:J:32:A:H2'	2:J:33:A:C5'	2.43	0.47
2:J:35:A:C2	2:J:36:A:C8	3.02	0.47
2:J:62:A:C2	2:J:63:A:N9	2.83	0.47
2:J:62:A:HO2'	2:J:63:A:H5'	1.70	0.47
2:J:64:A:N6	2:J:65:A:N6	2.63	0.47
2:J:65:A:C4	2:J:66:A:N7	2.83	0.47
2:J:65:A:O2'	2:J:66:A:H5'	2.15	0.47
2:J:72:A:C2	2:J:73:A:N9	2.82	0.47
2:J:90:A:C5	2:J:91:A:N7	2.83	0.47
2:J:102:A:C2'	2:J:103:A:H8	2.24	0.47
2:J:144:A:N3	2:J:145:A:C1'	2.78	0.47
2:J:148:A:C5	2:J:149:A:N7	2.83	0.47
2:J:156:A:H2'	2:J:157:A:H8	1.79	0.47
2:J:233:A:C2	2:J:234:A:C8	3.02	0.47
2:J:254:A:N1	2:J:255:A:C5	2.82	0.47
3:K:63:A:C2	3:K:64:A:C4	3.03	0.47
3:K:96:A:N3	3:K:97:A:C8	2.82	0.47
3:K:99:A:C2	3:K:100:A:C5	3.02	0.47
3:K:124:A:C2	3:K:125:A:C4	2.98	0.47
3:K:141:A:C4	3:K:142:A:N7	2.83	0.47
3:K:247:A:C2	3:K:248:A:C5	3.02	0.47
4:L:475:U:C2	4:L:476:U:C5	3.03	0.47
4:L:484:U:H2'	4:L:485:U:C4'	2.45	0.47
4:L:485:U:O2'	4:L:486:U:H5'	2.14	0.47
4:L:573:U:C2'	4:L:574:U:C6	2.79	0.47
4:L:612:U:N3	4:L:613:U:C5	2.83	0.47
4:L:671:U:C2	4:L:672:U:C5	3.02	0.47
4:L:729:U:N3	4:L:730:U:O4	2.34	0.47
4:L:777:U:C2'	4:L:778:U:O4'	2.56	0.47
4:L:778:U:H2'	4:L:779:U:C5'	2.42	0.47
4:L:808:U:N3	4:L:809:U:C4	2.82	0.47
4:L:812:U:H2'	4:L:813:U:C6	2.46	0.47
4:L:812:U:O2	4:L:813:U:C6	2.68	0.47
5:M:287:U:O2	5:M:288:U:N1	2.48	0.47
5:M:300:U:H2'	5:M:301:U:O5'	2.15	0.47
5:M:318:U:O2'	5:M:319:U:C4'	2.62	0.47
5:M:324:U:C4	5:M:325:U:O4	2.67	0.47
5:M:370:U:C2	5:M:371:U:C4	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:401:U:H2'	5:M:402:U:C6	2.50	0.47
5:M:402:U:C2	5:M:403:U:C6	3.03	0.47
5:M:408:U:O2'	5:M:409:U:C4'	2.57	0.47
5:M:501:U:N1	5:M:502:U:C5	2.83	0.47
5:M:508:U:C2'	5:M:509:U:C5'	2.92	0.47
6:N:283:U:N3	6:N:284:U:C5	2.83	0.47
6:N:322:U:C4	6:N:323:U:C4	3.02	0.47
6:N:323:U:C2'	6:N:324:U:O4'	2.62	0.47
6:N:335:U:C4	6:N:336:U:C4	3.02	0.47
6:N:417:U:C2	6:N:418:U:C5	3.03	0.47
6:N:444:U:C2	6:N:445:U:C5	3.03	0.47
6:N:473:U:C6	6:N:474:U:H5	2.32	0.47
6:N:478:U:O2'	6:N:479:U:H5'	2.15	0.47
1:I:26:A:HO2'	1:I:27:A:H5'	1.71	0.47
1:I:177:A:C2	1:I:178:A:C5	3.03	0.47
1:I:241:A:C6	1:I:242:A:C5	3.02	0.47
1:I:243:A:N1	1:I:244:A:C5	2.82	0.47
1:I:246:A:C2	1:I:247:A:C8	3.03	0.47
1:I:261:A:C6	1:I:262:A:N6	2.83	0.47
1:I:365:A:N3	1:I:366:A:C8	2.82	0.47
2:J:39:A:C2	2:J:40:A:C5	3.03	0.47
2:J:50:A:H2'	2:J:51:A:C8	2.46	0.47
2:J:73:A:N1	2:J:74:A:C5	2.83	0.47
2:J:93:A:C4	2:J:94:A:N7	2.82	0.47
2:J:162:A:N6	2:J:163:A:H62	2.12	0.47
2:J:255:A:N3	2:J:256:A:C8	2.82	0.47
3:K:38:A:C2'	3:K:39:A:O5'	2.60	0.47
3:K:98:A:C5	3:K:99:A:N7	2.83	0.47
3:K:117:A:H2'	3:K:118:A:C8	2.48	0.47
3:K:117:A:C6	3:K:118:A:N6	2.83	0.47
3:K:203:A:O2'	3:K:204:A:C5'	2.58	0.47
3:K:247:A:C2	3:K:248:A:N7	2.83	0.47
3:K:253:A:O2'	3:K:254:A:C4'	2.61	0.47
4:L:513:U:H2'	4:L:514:U:H6	1.79	0.47
4:L:559:U:O4	4:L:560:U:O4	2.32	0.47
4:L:611:U:C2'	4:L:612:U:H6	2.15	0.47
4:L:653:U:H2'	4:L:654:U:H6	1.79	0.47
4:L:655:U:H2'	4:L:656:U:H6	1.80	0.47
4:L:660:U:H2'	4:L:661:U:C4'	2.44	0.47
4:L:708:U:C2	4:L:709:U:C6	3.02	0.47
4:L:709:U:O2	4:L:710:U:C6	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:723:U:O2'	4:L:724:U:H5'	2.15	0.47
4:L:724:U:C2'	4:L:725:U:O5'	2.57	0.47
5:M:298:U:H2'	5:M:299:U:C5'	2.44	0.47
5:M:519:U:H2'	5:M:520:U:C6	2.46	0.47
6:N:282:U:C2	6:N:283:U:C5	3.03	0.47
6:N:322:U:HO3'	6:N:323:U:P	2.29	0.47
6:N:335:U:O4	6:N:336:U:O4	2.32	0.47
6:N:397:U:H2'	6:N:398:U:H6	1.80	0.47
6:N:452:U:H2'	6:N:453:U:H6	1.79	0.47
1:I:27:A:C2'	1:I:28:A:C5'	2.93	0.47
1:I:75:A:C2	1:I:76:A:C5	3.03	0.47
1:I:108:A:C5	1:I:109:A:N7	2.83	0.47
1:I:258:A:C2	1:I:259:A:C5	3.02	0.47
1:I:266:A:H2	1:I:267:A:H1'	1.79	0.47
1:I:305:A:N6	1:I:306:A:N6	2.63	0.47
1:I:322:A:N1	1:I:323:A:C5	2.82	0.47
1:I:353:A:N3	1:I:354:A:C1'	2.77	0.47
2:J:48:A:H2'	2:J:49:A:H8	1.80	0.47
2:J:158:A:C5	2:J:159:A:N7	2.82	0.47
2:J:184:A:H2'	2:J:185:A:C5'	2.40	0.47
2:J:185:A:C5	2:J:186:A:N7	2.83	0.47
2:J:200:A:C2	2:J:201:A:N7	2.83	0.47
2:J:247:A:N1	2:J:248:A:C5	2.83	0.47
3:K:116:A:C5	3:K:117:A:N7	2.82	0.47
3:K:141:A:C2	3:K:142:A:C8	3.03	0.47
3:K:164:A:N6	3:K:165:A:H62	2.09	0.47
3:K:253:A:C2'	3:K:254:A:O4'	2.62	0.47
4:L:541:U:N3	4:L:542:U:C4	2.83	0.47
4:L:542:U:H2'	4:L:543:U:C6	2.49	0.47
4:L:650:U:H2'	4:L:651:U:C5'	2.44	0.47
4:L:754:U:C2'	4:L:755:U:C4'	2.93	0.47
4:L:759:U:C2'	4:L:760:U:C4'	2.86	0.47
4:L:768:U:H2'	4:L:769:U:C5'	2.37	0.47
4:L:800:U:O2'	4:L:801:U:H5'	2.15	0.47
5:M:303:U:O2	5:M:304:U:C6	2.67	0.47
5:M:363:U:C2	5:M:364:U:C5	3.02	0.47
5:M:415:U:C2	5:M:416:U:C5	3.03	0.47
5:M:434:U:C2	5:M:435:U:C5	3.02	0.47
5:M:453:U:H2'	5:M:454:U:C4'	2.30	0.47
5:M:527:U:H2'	5:M:528:U:C5'	2.45	0.47
6:N:304:U:C2'	6:N:305:U:C6	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:305:U:C3'	6:N:306:U:H6	2.28	0.47
6:N:349:U:O2'	6:N:350:U:O5'	2.33	0.47
6:N:393:U:O2'	6:N:394:U:C5'	2.61	0.47
6:N:397:U:C2'	6:N:398:U:H5'	2.45	0.47
6:N:492:U:H2'	6:N:493:U:O5'	2.15	0.47
6:N:499:U:O4	6:N:500:U:O4	2.31	0.47
1:I:63:A:C6	1:I:64:A:C5	3.03	0.47
1:I:82:A:C2	4:L:744:U:C2	3.03	0.47
1:I:92:A:C5	1:I:93:A:N7	2.83	0.47
1:I:138:A:C2'	1:I:139:A:O5'	2.63	0.47
1:I:138:A:C2	1:I:139:A:N9	2.83	0.47
1:I:157:A:H2'	1:I:158:A:C8	2.49	0.47
1:I:187:A:N1	1:I:188:A:C5	2.83	0.47
1:I:209:A:C2	1:I:210:A:C8	3.03	0.47
1:I:209:A:O2'	1:I:210:A:H5'	2.14	0.47
1:I:263:A:C2'	1:I:264:A:O5'	2.59	0.47
1:I:270:A:N3	1:I:271:A:H1'	2.30	0.47
1:I:279:A:N3	1:I:280:A:N9	2.63	0.47
1:I:310:A:C6	1:I:311:A:C5	3.03	0.47
1:I:318:A:C4	1:I:319:A:C8	3.03	0.47
1:I:362:A:H2'	1:I:363:A:H8	1.79	0.47
1:I:364:A:H2'	1:I:365:A:O5'	2.14	0.47
2:J:14:A:C2	2:J:15:A:N7	2.82	0.47
2:J:30:A:H2'	2:J:31:A:C5'	2.45	0.47
2:J:30:A:N3	2:J:31:A:C8	2.83	0.47
2:J:115:A:C2	2:J:116:A:N7	2.83	0.47
2:J:260:A:H2'	2:J:261:A:C5'	2.45	0.47
3:K:6:A:N6	3:K:7:A:N6	2.63	0.47
3:K:54:A:N3	3:K:55:A:C8	2.83	0.47
3:K:68:A:C2	3:K:69:A:C5	3.03	0.47
3:K:131:A:N1	3:K:132:A:C5	2.83	0.47
3:K:138:A:N3	3:K:139:A:N7	2.61	0.47
3:K:154:A:N3	3:K:155:A:C8	2.83	0.47
3:K:198:A:N6	3:K:199:A:N6	2.62	0.47
3:K:206:A:C2'	3:K:207:A:H5'	2.45	0.47
4:L:589:U:C4	4:L:590:U:C5	3.03	0.47
4:L:605:U:H2'	4:L:606:U:H6	1.80	0.47
4:L:665:U:H2'	4:L:666:U:O5'	2.15	0.47
4:L:750:U:O2	4:L:751:U:C4	2.67	0.47
4:L:779:U:HO2'	4:L:780:U:H5'	1.62	0.47
4:L:804:U:C2'	4:L:805:U:C5'	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:301:U:C2	5:M:302:U:C5	3.02	0.47
5:M:383:U:C2	5:M:384:U:C5	3.02	0.47
5:M:488:U:C4	5:M:489:U:O4	2.68	0.47
5:M:504:U:N3	5:M:505:U:C4	2.83	0.47
5:M:523:U:H2'	5:M:524:U:O5'	2.14	0.47
5:M:549:U:C3'	5:M:550:U:P	2.93	0.47
6:N:311:U:C2'	6:N:312:U:H6	2.25	0.47
6:N:315:U:H2'	6:N:316:U:O4'	2.14	0.47
6:N:342:U:C2'	6:N:343:U:C5'	2.92	0.47
6:N:401:U:C2'	6:N:402:U:O5'	2.62	0.47
6:N:421:U:O2'	6:N:422:U:H5'	2.15	0.47
6:N:440:U:O2'	6:N:441:U:C4'	2.59	0.47
1:I:3:A:C2	1:I:4:A:C5	3.03	0.46
1:I:8:A:C6	1:I:9:A:N7	2.83	0.46
1:I:14:A:H2'	1:I:15:A:C1'	2.39	0.46
1:I:17:A:HO2'	1:I:18:A:C5'	1.98	0.46
1:I:20:A:C4	1:I:21:A:N7	2.84	0.46
1:I:57:A:C4	1:I:58:A:N7	2.83	0.46
1:I:82:A:C6	1:I:83:A:C4	3.03	0.46
1:I:178:A:C2	1:I:179:A:C5	3.03	0.46
1:I:277:A:O5'	1:I:278:A:OP2	2.33	0.46
1:I:321:A:N1	1:I:322:A:C5	2.83	0.46
2:J:156:A:H2'	2:J:157:A:O4'	2.15	0.46
2:J:166:A:N3	2:J:167:A:N9	2.62	0.46
2:J:226:A:N1	2:J:227:A:C5	2.83	0.46
3:K:80:A:N3	3:K:81:A:C8	2.84	0.46
3:K:81:A:O2'	3:K:82:A:C4'	2.62	0.46
3:K:90:A:H2'	3:K:91:A:H8	1.79	0.46
3:K:93:A:H2'	3:K:94:A:C8	2.49	0.46
3:K:102:A:O2'	3:K:103:A:P	2.64	0.46
3:K:121:A:C6	3:K:122:A:C6	3.03	0.46
3:K:161:A:C2'	3:K:162:A:C5'	2.93	0.46
3:K:170:A:H2'	3:K:171:A:C5'	2.45	0.46
3:K:253:A:C2'	3:K:254:A:C4'	2.87	0.46
4:L:536:U:H3'	4:L:537:U:P	2.55	0.46
4:L:547:U:C4	4:L:548:U:C5	3.01	0.46
4:L:614:U:O2'	4:L:615:U:H5'	2.15	0.46
4:L:643:U:O4	4:L:644:U:O4	2.32	0.46
4:L:681:U:C2	4:L:682:U:C6	3.03	0.46
4:L:736:U:O2'	4:L:737:U:P	2.70	0.46
4:L:750:U:H2'	4:L:751:U:H5	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:384:U:H2'	5:M:385:U:H6	1.79	0.46
5:M:404:U:H2'	5:M:405:U:C6	2.50	0.46
5:M:469:U:C2'	5:M:470:U:H6	2.19	0.46
5:M:476:U:C2	5:M:477:U:C5	3.03	0.46
5:M:497:U:N3	5:M:498:U:C4	2.83	0.46
6:N:293:U:C2	6:N:294:U:C5	3.03	0.46
6:N:334:U:H2'	6:N:335:U:C6	2.50	0.46
6:N:462:U:C2	6:N:463:U:C6	3.03	0.46
6:N:475:U:HO2'	6:N:476:U:H5'	1.71	0.46
1:I:4:A:C2'	1:I:5:A:C8	2.81	0.46
1:I:74:A:N3	1:I:75:A:C1'	2.78	0.46
1:I:82:A:N6	1:I:83:A:N6	2.63	0.46
1:I:119:A:H2	1:I:120:A:C4	2.29	0.46
1:I:183:A:N3	1:I:184:A:O4'	2.48	0.46
1:I:241:A:N1	1:I:242:A:C5	2.83	0.46
2:J:29:A:C2	2:J:30:A:H1'	2.50	0.46
2:J:80:A:C6	2:J:81:A:C5	3.03	0.46
2:J:124:A:N3	2:J:125:A:N9	2.63	0.46
2:J:184:A:C4	2:J:185:A:C8	3.03	0.46
2:J:185:A:O2'	2:J:186:A:H5'	2.14	0.46
2:J:191:A:H2'	2:J:192:A:H8	1.81	0.46
2:J:204:A:C2'	2:J:205:A:C5'	2.92	0.46
3:K:84:A:H2'	3:K:85:A:H8	1.79	0.46
3:K:110:A:C4	3:K:111:A:C8	3.03	0.46
3:K:123:A:O2'	3:K:124:A:H5'	2.15	0.46
3:K:249:A:C2'	3:K:250:A:H5'	2.38	0.46
4:L:506:U:H2'	4:L:507:U:O5'	2.15	0.46
4:L:521:U:HO2'	4:L:522:U:H5'	1.72	0.46
4:L:559:U:C2	4:L:560:U:C6	3.03	0.46
4:L:609:U:O2'	4:L:610:U:H5'	2.15	0.46
4:L:618:U:H2'	4:L:619:U:O5'	2.14	0.46
4:L:621:U:N3	4:L:622:U:C5	2.82	0.46
4:L:650:U:H2'	4:L:651:U:H6	1.80	0.46
4:L:668:U:N1	4:L:669:U:C5	2.83	0.46
4:L:688:U:H2'	4:L:689:U:H6	1.80	0.46
4:L:690:U:H2'	4:L:691:U:C6	2.50	0.46
4:L:796:U:C2	4:L:797:U:C5	3.03	0.46
4:L:819:U:O2'	4:L:820:U:P	2.73	0.46
5:M:305:U:O2'	5:M:306:U:C5'	2.59	0.46
5:M:334:U:O2	5:M:335:U:N1	2.48	0.46
5:M:407:U:O5'	5:M:408:U:OP2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:434:U:H2'	5:M:435:U:C5'	2.46	0.46
5:M:460:U:C2'	5:M:461:U:C6	2.92	0.46
5:M:508:U:H2'	5:M:509:U:H6	1.79	0.46
5:M:536:U:H2'	5:M:537:U:H6	1.81	0.46
6:N:289:U:H3'	6:N:290:U:P	2.53	0.46
6:N:376:U:C2	6:N:377:U:C6	3.02	0.46
6:N:438:U:C2'	6:N:439:U:C5'	2.94	0.46
6:N:439:U:C2'	6:N:440:U:H5'	2.45	0.46
1:I:33:A:C2'	1:I:34:A:O5'	2.63	0.46
1:I:56:A:N1	1:I:57:A:C5	2.83	0.46
1:I:65:A:HO2'	1:I:66:A:C5'	1.93	0.46
1:I:68:A:H2'	1:I:69:A:C4'	2.45	0.46
1:I:113:A:N3	1:I:114:A:C8	2.83	0.46
1:I:115:A:N1	1:I:116:A:C5	2.83	0.46
1:I:131:A:H61	1:I:132:A:H61	1.56	0.46
1:I:134:A:N1	1:I:135:A:N7	2.52	0.46
1:I:189:A:H2'	1:I:190:A:C5'	2.43	0.46
1:I:198:A:N1	1:I:199:A:C5	2.83	0.46
1:I:199:A:N3	1:I:200:A:C8	2.83	0.46
1:I:257:A:N1	1:I:258:A:C5	2.84	0.46
1:I:335:A:N6	1:I:336:A:H61	2.02	0.46
1:I:338:A:H2'	1:I:339:A:C8	2.50	0.46
1:I:391:A:C6	1:I:392:A:N6	2.83	0.46
2:J:98:A:O2'	2:J:99:A:H5'	2.16	0.46
2:J:100:A:C2	2:J:101:A:C5	3.03	0.46
2:J:117:A:N1	2:J:118:A:C5	2.83	0.46
2:J:128:A:N1	2:J:129:A:C5	2.83	0.46
2:J:200:A:N1	2:J:201:A:C5	2.83	0.46
2:J:228:A:C6	2:J:229:A:N6	2.84	0.46
3:K:100:A:O2'	3:K:101:A:O4'	2.33	0.46
3:K:163:A:C6	3:K:164:A:C5	3.04	0.46
3:K:192:A:C3'	3:K:193:A:H8	2.29	0.46
4:L:524:U:N3	4:L:525:U:C5	2.84	0.46
4:L:530:U:C2	4:L:531:U:C6	3.04	0.46
4:L:586:U:C6	4:L:587:U:C5	3.03	0.46
4:L:602:U:N3	4:L:603:U:C4	2.83	0.46
4:L:606:U:C2	4:L:607:U:C6	3.03	0.46
4:L:660:U:C2'	4:L:661:U:C4'	2.94	0.46
4:L:663:U:H2'	4:L:664:U:C6	2.51	0.46
4:L:687:U:H2'	4:L:688:U:C6	2.49	0.46
4:L:704:U:O2	4:L:705:U:C6	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:797:U:C2	4:L:798:U:C5	3.03	0.46
4:L:815:U:N3	4:L:816:U:C5	2.83	0.46
5:M:323:U:H2'	5:M:324:U:C1'	2.38	0.46
5:M:324:U:C2'	5:M:325:U:H5'	2.45	0.46
5:M:344:U:C2	5:M:345:U:C5	3.03	0.46
6:N:279:U:HO3'	6:N:280:U:P	2.30	0.46
6:N:296:U:N3	6:N:297:U:O4	2.48	0.46
6:N:322:U:H3'	6:N:323:U:P	2.54	0.46
6:N:330:U:O2'	6:N:331:U:H5'	2.15	0.46
6:N:352:U:H2'	6:N:353:U:H6	1.80	0.46
6:N:458:U:H2'	6:N:459:U:H6	1.77	0.46
6:N:487:U:H2'	6:N:488:U:H6	1.77	0.46
1:I:77:A:H2'	1:I:78:A:H8	1.81	0.46
1:I:101:A:HO2'	1:I:102:A:P	2.39	0.46
1:I:114:A:N6	1:I:115:A:N6	2.63	0.46
1:I:123:A:C4	1:I:124:A:C8	3.03	0.46
1:I:203:A:H2'	1:I:204:A:H8	1.79	0.46
1:I:245:A:C4	1:I:246:A:C8	3.03	0.46
1:I:246:A:C2'	1:I:247:A:O5'	2.64	0.46
1:I:324:A:N1	1:I:325:A:C5	2.84	0.46
1:I:349:A:C6	1:I:350:A:N7	2.83	0.46
2:J:3:A:C3'	2:J:4:A:P	2.98	0.46
2:J:6:A:N1	2:J:7:A:C5	2.84	0.46
2:J:22:A:C2	2:J:23:A:C8	3.04	0.46
2:J:98:A:N1	2:J:99:A:C5	2.83	0.46
2:J:111:A:O2'	2:J:112:A:C5'	2.51	0.46
2:J:198:A:H2'	2:J:199:A:C5'	2.45	0.46
2:J:234:A:C2	2:J:235:A:C8	3.04	0.46
2:J:241:A:O2'	2:J:242:A:H5'	2.15	0.46
3:K:94:A:C6	3:K:95:A:C6	3.03	0.46
3:K:96:A:N1	3:K:97:A:C5	2.84	0.46
3:K:107:A:C2	3:K:108:A:C8	3.04	0.46
3:K:118:A:C2'	3:K:119:A:C4'	2.88	0.46
3:K:130:A:H2'	3:K:131:A:C5'	2.43	0.46
4:L:457:U:C2	4:L:458:U:C5	3.03	0.46
4:L:479:U:C2	4:L:480:U:C5	3.03	0.46
4:L:513:U:C2	4:L:514:U:C6	3.03	0.46
4:L:517:U:C4	4:L:518:U:C5	3.03	0.46
4:L:539:U:C2	4:L:540:U:C5	3.04	0.46
4:L:574:U:C4	4:L:575:U:C5	3.03	0.46
4:L:589:U:O2	4:L:590:U:C6	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:604:U:C2'	4:L:605:U:O5'	2.62	0.46
4:L:661:U:H2'	4:L:662:U:O5'	2.15	0.46
4:L:683:U:C4	4:L:684:U:O4	2.68	0.46
4:L:744:U:H2'	4:L:745:U:H6	1.81	0.46
4:L:782:U:H2'	4:L:783:U:O5'	2.15	0.46
4:L:803:U:C2'	4:L:804:U:C5'	2.93	0.46
4:L:806:U:C2'	4:L:807:U:O4'	2.63	0.46
5:M:303:U:C2	5:M:304:U:C5	3.03	0.46
5:M:436:U:N3	5:M:437:U:C5	2.83	0.46
5:M:483:U:O2	5:M:484:U:C6	2.68	0.46
6:N:297:U:C2'	6:N:298:U:H5'	2.46	0.46
6:N:354:U:H2'	6:N:355:U:H6	1.79	0.46
6:N:439:U:O2'	6:N:440:U:H5'	2.15	0.46
6:N:477:U:C2	6:N:478:U:C6	3.03	0.46
1:I:23:A:H2'	1:I:24:A:H8	1.81	0.46
1:I:51:A:C2	1:I:52:A:C8	3.04	0.46
1:I:61:A:N1	1:I:62:A:C6	2.84	0.46
1:I:122:A:C2	1:I:123:A:N9	2.83	0.46
1:I:128:A:N1	1:I:129:A:C5	2.84	0.46
1:I:130:A:O2'	1:I:131:A:C5'	2.58	0.46
1:I:142:A:N3	1:I:143:A:C8	2.84	0.46
1:I:147:A:H2'	1:I:148:A:O4'	2.15	0.46
1:I:158:A:C2	1:I:159:A:C5	3.04	0.46
1:I:233:A:H2'	1:I:234:A:C4'	2.44	0.46
1:I:290:A:H2'	1:I:291:A:C8	2.50	0.46
2:J:5:A:C2	2:J:6:A:N7	2.84	0.46
2:J:46:A:C2	2:J:47:A:C8	3.03	0.46
2:J:119:A:N1	2:J:120:A:N6	2.61	0.46
2:J:124:A:C4	2:J:125:A:C8	3.04	0.46
2:J:176:A:C2	2:J:177:A:N9	2.83	0.46
2:J:187:A:C2'	2:J:188:A:O5'	2.64	0.46
2:J:211:A:C4	2:J:212:A:C8	3.03	0.46
2:J:266:A:N1	2:J:267:A:C5	2.84	0.46
3:K:89:A:O2'	3:K:90:A:C5'	2.63	0.46
3:K:94:A:C6	3:K:95:A:C5	3.04	0.46
3:K:117:A:C2	3:K:118:A:C4	2.98	0.46
3:K:164:A:O5'	3:K:165:A:OP2	2.32	0.46
3:K:165:A:N1	3:K:166:A:C4	2.84	0.46
4:L:419:U:N3	4:L:420:U:C4	2.84	0.46
4:L:448:U:H2'	4:L:449:U:C6	2.51	0.46
4:L:459:U:H2'	4:L:460:U:C6	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:467:U:H2'	4:L:468:U:H6	1.80	0.46
4:L:525:U:H2'	4:L:526:U:O5'	2.15	0.46
4:L:561:U:H2'	4:L:562:U:C5'	2.41	0.46
4:L:570:U:HO2'	4:L:571:U:H5'	1.72	0.46
4:L:712:U:O5'	4:L:713:U:P	2.74	0.46
4:L:742:U:O2'	4:L:743:U:O5'	2.33	0.46
4:L:743:U:HO2'	4:L:744:U:C5'	2.01	0.46
4:L:769:U:H2'	4:L:770:U:H6	1.81	0.46
4:L:777:U:O2'	4:L:778:U:C5'	2.45	0.46
4:L:814:U:H2'	4:L:815:U:H6	1.80	0.46
4:L:821:U:H2'	4:L:822:U:C6	2.51	0.46
5:M:339:U:C4	5:M:340:U:C5	3.04	0.46
5:M:364:U:N3	5:M:365:U:C5	2.83	0.46
5:M:379:U:O2'	5:M:380:U:H5'	2.15	0.46
5:M:403:U:C2	5:M:404:U:C6	3.03	0.46
5:M:408:U:H2'	5:M:409:U:H6	1.80	0.46
5:M:449:U:O2	5:M:450:U:C6	2.68	0.46
5:M:492:U:C2	5:M:493:U:C6	3.04	0.46
6:N:295:U:H2'	6:N:296:U:C6	2.51	0.46
6:N:412:U:C2	6:N:413:U:C5	3.03	0.46
1:I:38:A:H2'	1:I:39:A:O5'	2.15	0.46
1:I:45:A:C2	1:I:46:A:C4	3.03	0.46
1:I:78:A:C6	1:I:79:A:C5	3.02	0.46
1:I:96:A:C6	1:I:97:A:N6	2.65	0.46
1:I:100:A:H2'	1:I:101:A:O4'	2.15	0.46
1:I:102:A:H2'	1:I:103:A:O4'	2.15	0.46
1:I:132:A:N3	1:I:133:A:C8	2.84	0.46
1:I:139:A:O2'	1:I:140:A:H5'	2.16	0.46
1:I:167:A:C2	1:I:168:A:C8	3.04	0.46
1:I:190:A:H2'	1:I:191:A:C5'	2.46	0.46
1:I:286:A:O5'	1:I:287:A:OP2	2.34	0.46
1:I:363:A:C4	1:I:364:A:C8	3.03	0.46
2:J:30:A:C2'	2:J:31:A:O5'	2.63	0.46
2:J:30:A:H2'	2:J:31:A:O4'	2.15	0.46
2:J:46:A:N6	5:M:508:U:O4	2.48	0.46
2:J:68:A:C6	2:J:69:A:N7	2.84	0.46
2:J:105:A:C6	2:J:106:A:N6	2.84	0.46
2:J:120:A:C2	2:J:121:A:C5	3.04	0.46
2:J:137:A:H2'	2:J:138:A:H8	1.80	0.46
3:K:67:A:C2	3:K:68:A:C8	3.04	0.46
3:K:71:A:C2	3:K:72:A:N9	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:120:A:H2'	3:K:121:A:O4'	2.16	0.46
4:L:600:U:C2	4:L:601:U:C6	3.04	0.46
4:L:611:U:C4	4:L:612:U:C5	3.04	0.46
4:L:619:U:H2'	4:L:620:U:H6	1.80	0.46
4:L:648:U:C2	4:L:649:U:C6	3.04	0.46
4:L:703:U:C4	4:L:704:U:C5	3.04	0.46
4:L:787:U:C2	4:L:788:U:C6	3.04	0.46
5:M:299:U:C4	5:M:300:U:C4	3.03	0.46
5:M:348:U:H2'	5:M:349:U:O4'	2.16	0.46
5:M:382:U:H2'	5:M:383:U:C5'	2.46	0.46
5:M:464:U:N3	5:M:465:U:C5	2.83	0.46
6:N:328:U:C2'	6:N:329:U:C6	2.85	0.46
6:N:360:U:C2'	6:N:361:U:H5'	2.45	0.46
6:N:399:U:C2	6:N:400:U:C6	3.03	0.46
6:N:473:U:C5	6:N:474:U:H5	2.33	0.46
6:N:498:U:O2'	6:N:499:U:H5'	2.15	0.46
6:N:527:U:C4	6:N:528:U:O4	2.69	0.46
1:I:76:A:N6	1:I:77:A:N6	2.64	0.46
1:I:159:A:C4	1:I:160:A:C8	3.04	0.46
1:I:190:A:N1	1:I:191:A:C5	2.84	0.46
1:I:261:A:N9	1:I:262:A:C8	2.84	0.46
1:I:275:A:C2	1:I:276:A:C4	3.03	0.46
1:I:316:A:C6	1:I:317:A:C5	3.04	0.46
2:J:48:A:H2'	2:J:49:A:O4'	2.16	0.46
2:J:115:A:C2	2:J:116:A:C5	3.03	0.46
2:J:191:A:C6	2:J:192:A:C5	3.04	0.46
2:J:207:A:C6	2:J:208:A:N7	2.84	0.46
2:J:215:A:C2	2:J:216:A:N9	2.83	0.46
3:K:42:A:H2'	3:K:43:A:C8	2.50	0.46
3:K:49:A:C2'	3:K:50:A:O5'	2.63	0.46
3:K:106:A:C2'	3:K:107:A:C5'	2.93	0.46
3:K:162:A:H2'	3:K:163:A:O5'	2.16	0.46
3:K:230:A:C6	3:K:231:A:N6	2.84	0.46
4:L:425:U:H2'	4:L:426:U:C6	2.50	0.46
4:L:486:U:C4	4:L:487:U:C4	3.03	0.46
4:L:578:U:C2'	4:L:579:U:O5'	2.60	0.46
4:L:646:U:H2'	4:L:647:U:C6	2.44	0.46
4:L:699:U:O4	4:L:700:U:O4	2.34	0.46
4:L:706:U:H2'	4:L:707:U:H5'	1.97	0.46
4:L:711:U:O4	4:L:712:U:O4	2.34	0.46
4:L:753:U:C2	4:L:754:U:C6	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:337:U:C2'	5:M:338:U:C4'	2.82	0.46
5:M:362:U:N3	5:M:363:U:C5	2.84	0.46
5:M:400:U:N3	5:M:401:U:C5	2.84	0.46
5:M:453:U:H2'	5:M:454:U:N1	2.27	0.46
5:M:467:U:C2'	5:M:468:U:O5'	2.63	0.46
5:M:519:U:C4	5:M:520:U:C4	3.04	0.46
5:M:523:U:C2'	5:M:524:U:O5'	2.57	0.46
6:N:290:U:H2'	6:N:291:U:H6	1.81	0.46
6:N:340:U:H2'	6:N:341:U:H6	1.80	0.46
6:N:481:U:H2'	6:N:482:U:O4'	2.15	0.46
6:N:483:U:N1	6:N:484:U:H5	2.14	0.46
6:N:486:U:O2'	6:N:487:U:O4'	2.34	0.46
1:I:20:A:C2	1:I:21:A:C5	3.03	0.46
1:I:26:A:N1	1:I:27:A:C5	2.84	0.46
1:I:44:A:C4	1:I:45:A:C8	3.04	0.46
1:I:49:A:N1	1:I:50:A:C5	2.83	0.46
1:I:113:A:C2'	1:I:114:A:H5'	2.45	0.46
1:I:138:A:C2'	1:I:139:A:C4'	2.88	0.46
1:I:226:A:C4	1:I:227:A:N7	2.84	0.46
1:I:231:A:N1	1:I:232:A:C6	2.84	0.46
1:I:249:A:N3	1:I:250:A:O4'	2.48	0.46
1:I:254:A:C2	1:I:255:A:C4	3.03	0.46
1:I:260:A:C6	1:I:261:A:N7	2.84	0.46
1:I:284:A:C2	1:I:285:A:C8	3.04	0.46
1:I:361:A:C2'	1:I:362:A:O4'	2.63	0.46
2:J:36:A:H2'	2:J:37:A:H8	1.80	0.46
2:J:56:A:N3	2:J:57:A:N9	2.61	0.46
2:J:80:A:C2'	2:J:81:A:C5'	2.94	0.46
2:J:101:A:C6	2:J:102:A:N7	2.84	0.46
2:J:220:A:C6	2:J:221:A:C5	3.04	0.46
2:J:254:A:C2	2:J:255:A:C8	3.04	0.46
3:K:107:A:H2'	3:K:108:A:H8	1.80	0.46
3:K:139:A:C4	3:K:140:A:C8	3.04	0.46
4:L:443:U:HO2'	4:L:444:U:H5'	1.76	0.46
4:L:515:U:C2'	4:L:516:U:C5'	2.93	0.46
4:L:527:U:H2'	4:L:528:U:H6	1.81	0.46
4:L:543:U:O4	4:L:544:U:O4	2.32	0.46
4:L:560:U:C2	4:L:561:U:C6	3.03	0.46
4:L:569:U:C2	4:L:570:U:C6	3.04	0.46
4:L:638:U:C4	4:L:639:U:C5	3.03	0.46
5:M:473:U:H2'	5:M:474:U:H6	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:498:U:O2'	5:M:499:U:C5'	2.64	0.46
5:M:529:U:C2	5:M:530:U:C6	3.03	0.46
5:M:532:U:C2	5:M:533:U:C5	3.03	0.46
5:M:533:U:C2	5:M:534:U:C5	3.04	0.46
6:N:305:U:O2'	6:N:306:U:O4'	2.31	0.46
6:N:363:U:H2'	6:N:364:U:C6	2.50	0.46
6:N:376:U:C4	6:N:377:U:O4	2.69	0.46
6:N:408:U:O2'	6:N:409:U:C5'	2.60	0.46
6:N:445:U:C2	6:N:446:U:C5	3.04	0.46
1:I:22:A:N3	1:I:23:A:C8	2.84	0.46
1:I:26:A:C2	1:I:27:A:C4	3.04	0.46
1:I:66:A:H2'	1:I:67:A:C4'	2.45	0.46
1:I:66:A:C2	1:I:67:A:C8	3.04	0.46
1:I:76:A:C6	1:I:77:A:C5	3.04	0.46
1:I:126:A:C2	1:I:127:A:C4	3.04	0.46
1:I:129:A:C2	1:I:130:A:C1'	2.99	0.46
1:I:141:A:C6	1:I:142:A:N6	2.84	0.46
1:I:291:A:N3	1:I:292:A:C8	2.83	0.46
1:I:306:A:N1	1:I:307:A:C5	2.84	0.46
1:I:313:A:C4	1:I:314:A:C8	3.04	0.46
1:I:330:A:C2'	1:I:331:A:O5'	2.64	0.46
1:I:396:A:O2'	1:I:397:A:H5'	2.16	0.46
2:J:12:A:N6	2:J:13:A:N6	2.64	0.46
2:J:14:A:C2	2:J:15:A:C8	3.04	0.46
2:J:55:A:N6	2:J:56:A:C6	2.84	0.46
2:J:65:A:N3	2:J:66:A:C8	2.84	0.46
2:J:73:A:C4	2:J:74:A:C8	3.04	0.46
2:J:116:A:N1	2:J:117:A:C6	2.84	0.46
2:J:199:A:C4	2:J:200:A:C8	3.04	0.46
2:J:249:A:C2	2:J:250:A:N9	2.84	0.46
3:K:71:A:H2	3:K:72:A:C4	2.26	0.46
3:K:100:A:HO2'	3:K:101:A:C4'	2.27	0.46
3:K:155:A:N1	3:K:156:A:C6	2.84	0.46
3:K:212:A:H3'	3:K:213:A:H8	1.80	0.46
4:L:449:U:C2'	4:L:450:U:C5'	2.94	0.46
4:L:506:U:H2'	4:L:507:U:C5'	2.45	0.46
4:L:596:U:C4	4:L:597:U:C5	3.04	0.46
4:L:645:U:O4	4:L:646:U:O4	2.34	0.46
4:L:803:U:C4	4:L:804:U:C4	3.03	0.46
5:M:320:U:O2'	5:M:321:U:H5'	2.15	0.46
5:M:419:U:O2	5:M:420:U:O4'	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:482:U:H2'	5:M:483:U:H6	1.79	0.46
5:M:495:U:O2	5:M:496:U:C6	2.69	0.46
5:M:513:U:N3	5:M:514:U:C5	2.84	0.46
6:N:322:U:H2'	6:N:323:U:C6	2.51	0.46
6:N:327:U:H2'	6:N:328:U:C5'	2.36	0.46
6:N:423:U:H2'	6:N:424:U:C5'	2.44	0.46
1:I:20:A:C5	1:I:21:A:N7	2.85	0.46
1:I:31:A:N1	1:I:32:A:C5	2.84	0.46
1:I:38:A:N1	1:I:39:A:C5	2.84	0.46
1:I:46:A:H2'	1:I:47:A:C8	2.47	0.46
1:I:60:A:N1	1:I:61:A:C6	2.84	0.46
1:I:136:A:N1	4:L:690:U:C4	2.84	0.46
1:I:137:A:C2	4:L:689:U:C2	3.04	0.46
1:I:165:A:C5	1:I:166:A:N7	2.84	0.46
1:I:178:A:H2'	1:I:179:A:C5'	2.45	0.46
1:I:194:A:C6	1:I:195:A:C6	3.04	0.46
1:I:222:A:C4	1:I:223:A:N7	2.83	0.46
1:I:234:A:C2	1:I:235:A:C5	3.04	0.46
1:I:235:A:C4	1:I:236:A:N7	2.84	0.46
1:I:278:A:HO2'	1:I:279:A:C4'	2.27	0.46
1:I:357:A:C2	1:I:358:A:C8	3.04	0.46
2:J:18:A:N3	2:J:19:A:C8	2.84	0.46
2:J:22:A:H2'	2:J:23:A:H8	1.81	0.46
2:J:75:A:C2	2:J:76:A:C8	3.04	0.46
2:J:132:A:C2'	2:J:133:A:O5'	2.64	0.46
2:J:134:A:C6	2:J:135:A:N6	2.84	0.46
2:J:142:A:H61	2:J:143:A:N6	2.07	0.46
2:J:214:A:N1	2:J:215:A:C5	2.84	0.46
2:J:253:A:N1	2:J:254:A:C5	2.83	0.46
3:K:53:A:C2	3:K:54:A:N7	2.84	0.46
3:K:71:A:C2	3:K:72:A:N7	2.84	0.46
3:K:129:A:C4	3:K:130:A:C8	3.04	0.46
4:L:518:U:O2	4:L:519:U:O4'	2.34	0.46
4:L:538:U:C4	4:L:539:U:C4	3.03	0.46
4:L:563:U:H2'	4:L:564:U:O4'	2.16	0.46
4:L:565:U:C2'	4:L:566:U:H5'	2.45	0.46
4:L:633:U:O2	4:L:634:U:C5	2.69	0.46
4:L:661:U:H2'	4:L:662:U:C6	2.45	0.46
4:L:673:U:H2'	4:L:674:U:O4'	2.16	0.46
4:L:691:U:C2	4:L:692:U:C5	3.04	0.46
4:L:717:U:N1	4:L:718:U:H5	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:727:U:O2'	4:L:728:U:O5'	2.33	0.46
1:I:31:A:N1	1:I:32:A:N6	2.64	0.45
1:I:45:A:O2'	1:I:46:A:C5'	2.55	0.45
1:I:46:A:O2'	1:I:47:A:O5'	2.34	0.45
1:I:83:A:C5	1:I:84:A:N7	2.85	0.45
1:I:137:A:N6	1:I:138:A:H62	2.12	0.45
1:I:221:A:C2	1:I:222:A:C5	3.04	0.45
1:I:283:A:C6	1:I:284:A:N6	2.84	0.45
1:I:358:A:C4	1:I:359:A:C8	3.00	0.45
2:J:5:A:N1	2:J:6:A:C6	2.84	0.45
2:J:27:A:C2	2:J:28:A:N9	2.84	0.45
2:J:60:A:C2	2:J:61:A:N7	2.84	0.45
2:J:199:A:C2	2:J:200:A:C5	3.04	0.45
2:J:254:A:C2	2:J:255:A:C5	3.04	0.45
2:J:258:A:C4	2:J:259:A:C8	3.04	0.45
3:K:5:A:O2'	3:K:6:A:O4'	2.34	0.45
3:K:96:A:C4	3:K:97:A:N7	2.83	0.45
3:K:112:A:C5	3:K:113:A:N7	2.84	0.45
3:K:118:A:C2	3:K:119:A:C5	3.04	0.45
3:K:154:A:N6	3:K:155:A:C6	2.79	0.45
3:K:204:A:N6	3:K:205:A:H62	2.09	0.45
3:K:206:A:C2'	3:K:207:A:C5'	2.94	0.45
4:L:427:U:H2'	4:L:428:U:H6	1.80	0.45
4:L:590:U:H2'	4:L:591:U:H6	1.80	0.45
4:L:640:U:C2	4:L:641:U:H5	2.31	0.45
4:L:643:U:C4	4:L:644:U:C4	3.04	0.45
4:L:708:U:C2'	4:L:709:U:O5'	2.64	0.45
4:L:751:U:O2	4:L:752:U:N1	2.48	0.45
5:M:332:U:N3	5:M:333:U:C4	2.84	0.45
5:M:352:U:H2'	5:M:353:U:O5'	2.15	0.45
5:M:384:U:H2'	5:M:385:U:C6	2.51	0.45
5:M:491:U:H2'	5:M:492:U:C5'	2.47	0.45
5:M:501:U:C2	5:M:502:U:C4	3.04	0.45
5:M:524:U:C4	5:M:525:U:C4	3.03	0.45
6:N:368:U:C2'	6:N:369:U:O5'	2.65	0.45
6:N:401:U:N3	6:N:402:U:C5	2.84	0.45
6:N:407:U:C2'	6:N:408:U:C5'	2.94	0.45
6:N:449:U:C2	6:N:450:U:C5	3.04	0.45
1:I:49:A:C4	1:I:50:A:C8	3.05	0.45
1:I:60:A:C2	1:I:61:A:C5	3.05	0.45
1:I:121:A:C6	1:I:122:A:N6	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:173:A:N6	1:I:174:A:N6	2.63	0.45
1:I:193:A:H2'	1:I:194:A:O5'	2.16	0.45
1:I:224:A:O2'	1:I:225:A:H5'	2.16	0.45
1:I:270:A:N1	1:I:271:A:C5	2.83	0.45
1:I:274:A:N1	1:I:275:A:C5	2.84	0.45
1:I:321:A:C6	1:I:322:A:N7	2.84	0.45
1:I:326:A:C4	1:I:327:A:C8	3.04	0.45
1:I:337:A:C2	1:I:338:A:C8	3.05	0.45
1:I:343:A:C2	1:I:344:A:C8	3.04	0.45
2:J:12:A:C2	2:J:13:A:C8	3.04	0.45
2:J:36:A:O2'	2:J:37:A:H5'	2.16	0.45
2:J:51:A:N1	2:J:52:A:C6	2.84	0.45
2:J:129:A:C5	2:J:130:A:N7	2.84	0.45
2:J:215:A:C4	2:J:216:A:C8	3.03	0.45
2:J:229:A:C2	2:J:230:A:N9	2.84	0.45
3:K:59:A:C2'	3:K:60:A:H5'	2.40	0.45
3:K:82:A:H2'	3:K:83:A:C8	2.50	0.45
3:K:115:A:C4	3:K:116:A:C8	3.04	0.45
3:K:169:A:C4	3:K:170:A:C8	3.05	0.45
4:L:468:U:C2	4:L:469:U:C5	3.04	0.45
4:L:537:U:C2'	4:L:538:U:C4'	2.95	0.45
4:L:586:U:C2'	4:L:587:U:C6	2.90	0.45
4:L:597:U:O2	4:L:598:U:C6	2.69	0.45
4:L:619:U:N3	4:L:620:U:C5	2.85	0.45
4:L:621:U:H2'	4:L:622:U:C6	2.49	0.45
4:L:654:U:H2'	4:L:655:U:H6	1.81	0.45
4:L:668:U:N3	4:L:669:U:O4	2.47	0.45
4:L:713:U:C5'	4:L:714:U:P	3.05	0.45
5:M:310:U:C3'	5:M:311:U:C5'	2.94	0.45
5:M:336:U:C6	5:M:337:U:C6	3.04	0.45
5:M:349:U:C2'	5:M:350:U:O4'	2.62	0.45
5:M:377:U:C2'	5:M:378:U:H6	2.21	0.45
5:M:399:U:H2'	5:M:400:U:H6	1.80	0.45
5:M:414:U:N3	5:M:415:U:C5	2.83	0.45
5:M:512:U:C2'	5:M:513:U:H6	2.17	0.45
5:M:521:U:C2	5:M:522:U:C5	3.03	0.45
6:N:321:U:N1	6:N:322:U:C5	2.84	0.45
6:N:445:U:O2	6:N:446:U:C6	2.69	0.45
1:I:11:A:C4	1:I:12:A:C8	3.04	0.45
1:I:12:A:C2	1:I:13:A:N9	2.85	0.45
1:I:18:A:C6	1:I:19:A:N7	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:32:A:C2	1:I:33:A:C5	3.04	0.45
1:I:48:A:H2'	1:I:49:A:C8	2.51	0.45
1:I:131:A:N1	1:I:132:A:C5	2.85	0.45
1:I:136:A:N1	1:I:137:A:C5	2.85	0.45
1:I:188:A:H2'	1:I:189:A:C8	2.51	0.45
1:I:194:A:C6	1:I:195:A:C5	3.04	0.45
1:I:213:A:C2'	1:I:214:A:O4'	2.64	0.45
1:I:255:A:C2	1:I:256:A:N9	2.85	0.45
1:I:265:A:H2'	1:I:266:A:H8	1.79	0.45
1:I:297:A:C5	1:I:298:A:N7	2.85	0.45
1:I:327:A:C2	1:I:328:A:C4	3.04	0.45
1:I:336:A:H2'	1:I:337:A:C8	2.51	0.45
1:I:341:A:C6	1:I:342:A:N7	2.84	0.45
2:J:19:A:H2'	2:J:20:A:H8	1.81	0.45
2:J:28:A:C2'	2:J:29:A:C5'	2.94	0.45
2:J:38:A:C4	2:J:39:A:C8	3.04	0.45
2:J:95:A:C4	2:J:96:A:C8	3.04	0.45
2:J:103:A:H2'	2:J:104:A:H8	1.81	0.45
2:J:150:A:C2	2:J:151:A:C5	3.05	0.45
2:J:230:A:O2'	2:J:231:A:O4'	2.32	0.45
3:K:72:A:C6	3:K:73:A:C5	3.04	0.45
3:K:156:A:C4	3:K:157:A:C8	3.04	0.45
4:L:418:U:H2'	4:L:419:U:C6	2.52	0.45
4:L:467:U:C2'	4:L:468:U:O5'	2.64	0.45
4:L:473:U:C4	4:L:474:U:C5	3.05	0.45
4:L:511:U:H2'	4:L:512:U:C6	2.51	0.45
4:L:601:U:H2'	4:L:602:U:O4'	2.16	0.45
4:L:627:U:O2	4:L:628:U:C6	2.70	0.45
4:L:630:U:O4	4:L:631:U:O4	2.35	0.45
4:L:735:U:H2'	4:L:736:U:O4'	2.16	0.45
4:L:741:U:N3	4:L:742:U:C5	2.84	0.45
4:L:802:U:C2'	4:L:803:U:O5'	2.63	0.45
5:M:299:U:C2'	5:M:300:U:O4'	2.60	0.45
5:M:379:U:C2'	5:M:380:U:O4'	2.65	0.45
5:M:442:U:HO2'	5:M:443:U:H5'	1.76	0.45
5:M:447:U:C2	5:M:448:U:C6	3.04	0.45
5:M:479:U:C2	5:M:480:U:C6	3.04	0.45
6:N:337:U:O2'	6:N:338:U:H5'	2.17	0.45
6:N:379:U:N3	6:N:380:U:C5	2.84	0.45
6:N:403:U:O2	6:N:404:U:C6	2.69	0.45
6:N:484:U:C3'	6:N:485:U:O5'	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:77:A:C4	1:I:78:A:N7	2.84	0.45
1:I:107:A:C2	4:L:719:U:O2	2.70	0.45
1:I:109:A:C2	1:I:110:A:N3	2.72	0.45
1:I:114:A:C4	1:I:115:A:C8	3.03	0.45
1:I:212:A:H2'	1:I:213:A:C5'	2.47	0.45
1:I:230:A:C2'	1:I:231:A:C4'	2.93	0.45
1:I:231:A:H2'	1:I:232:A:H8	1.81	0.45
1:I:238:A:C4	1:I:239:A:C8	3.04	0.45
1:I:251:A:C2'	1:I:252:A:H8	2.20	0.45
1:I:284:A:N3	1:I:285:A:N9	2.64	0.45
1:I:311:A:H2'	1:I:312:A:O5'	2.17	0.45
1:I:346:A:C2	1:I:347:A:C8	3.04	0.45
1:I:375:A:O2'	1:I:376:A:O5'	2.35	0.45
2:J:29:A:N3	2:J:30:A:O4'	2.50	0.45
2:J:55:A:H2'	2:J:56:A:C8	2.51	0.45
2:J:56:A:H2'	2:J:57:A:O4'	2.16	0.45
2:J:109:A:C2	2:J:110:A:C8	3.04	0.45
2:J:170:A:C2	2:J:171:A:C5	3.04	0.45
2:J:207:A:H2'	2:J:208:A:H8	1.82	0.45
2:J:230:A:C4	2:J:231:A:C8	3.05	0.45
2:J:230:A:H2'	2:J:231:A:O5'	2.16	0.45
3:K:63:A:N6	6:N:469:U:O4	2.49	0.45
3:K:79:A:C4	3:K:80:A:C8	3.04	0.45
3:K:119:A:C5	3:K:120:A:C8	3.04	0.45
3:K:159:A:C2	3:K:160:A:C8	3.04	0.45
4:L:433:U:H2'	4:L:434:U:C6	2.52	0.45
4:L:467:U:C2	4:L:468:U:C6	3.04	0.45
4:L:516:U:N3	4:L:517:U:C4	2.84	0.45
4:L:545:U:O2	4:L:546:U:C6	2.69	0.45
4:L:574:U:C6	4:L:575:U:C5	3.04	0.45
4:L:582:U:O2	4:L:583:U:N1	2.49	0.45
4:L:590:U:HO2'	4:L:591:U:H5'	1.79	0.45
4:L:605:U:C4	4:L:606:U:C5	3.03	0.45
4:L:634:U:O2	4:L:635:U:C6	2.70	0.45
4:L:752:U:C2	4:L:753:U:C6	3.05	0.45
4:L:757:U:C5	4:L:758:U:H5	2.34	0.45
4:L:771:U:H2'	4:L:772:U:C5'	2.45	0.45
5:M:286:U:H2'	5:M:287:U:H6	1.80	0.45
5:M:287:U:C2'	5:M:288:U:O4'	2.64	0.45
5:M:452:U:O2	5:M:453:U:C6	2.69	0.45
5:M:488:U:O2'	5:M:489:U:C4'	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:513:U:H2'	5:M:514:U:O5'	2.17	0.45
6:N:277:U:H2'	6:N:278:U:H6	1.81	0.45
6:N:316:U:C2'	6:N:317:U:C5'	2.94	0.45
6:N:357:U:O2'	6:N:358:U:P	2.70	0.45
6:N:393:U:C2	6:N:394:U:C6	3.04	0.45
1:I:17:A:H2'	1:I:18:A:C5'	2.35	0.45
1:I:59:A:C2	1:I:60:A:N7	2.84	0.45
1:I:70:A:C5	1:I:71:A:N7	2.85	0.45
1:I:73:A:C2'	1:I:74:A:H8	2.23	0.45
1:I:103:A:H2'	1:I:104:A:C8	2.39	0.45
1:I:108:A:H2'	1:I:109:A:C8	2.51	0.45
1:I:229:A:C2	1:I:230:A:C5	3.04	0.45
1:I:331:A:C5	1:I:332:A:N7	2.85	0.45
1:I:354:A:C4	1:I:355:A:C8	3.05	0.45
2:J:91:A:C2'	2:J:92:A:H5'	2.46	0.45
2:J:104:A:H2'	2:J:105:A:H8	1.82	0.45
2:J:135:A:H2'	2:J:136:A:C8	2.52	0.45
2:J:142:A:C2'	2:J:143:A:H8	2.15	0.45
2:J:157:A:C2	2:J:158:A:C8	3.05	0.45
2:J:200:A:C2'	2:J:201:A:O5'	2.61	0.45
2:J:230:A:N3	2:J:231:A:C8	2.84	0.45
2:J:252:A:H2'	2:J:253:A:O5'	2.17	0.45
3:K:57:A:C4	3:K:58:A:N7	2.84	0.45
3:K:84:A:C2'	3:K:85:A:H5'	2.47	0.45
3:K:102:A:N1	3:K:103:A:N7	2.62	0.45
3:K:111:A:N1	3:K:112:A:C5	2.85	0.45
3:K:146:A:H2	3:K:147:A:C4	2.32	0.45
4:L:424:U:C6	4:L:425:U:H5	2.35	0.45
4:L:491:U:O2	4:L:492:U:O4'	2.34	0.45
4:L:503:U:C2	4:L:504:U:C6	3.05	0.45
4:L:530:U:C4	4:L:531:U:C5	3.04	0.45
4:L:565:U:C2'	4:L:566:U:C5'	2.95	0.45
4:L:599:U:N1	4:L:600:U:C5	2.84	0.45
4:L:629:U:H2'	4:L:630:U:C5'	2.46	0.45
4:L:757:U:C2	4:L:758:U:C4	2.85	0.45
4:L:767:U:O2'	4:L:768:U:O5'	2.35	0.45
4:L:794:U:O2	4:L:795:U:C6	2.69	0.45
5:M:392:U:H2'	5:M:393:U:O5'	2.17	0.45
5:M:433:U:C5	5:M:434:U:H5	2.34	0.45
5:M:464:U:H2'	5:M:465:U:H6	1.80	0.45
5:M:476:U:H2'	5:M:477:U:C5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:508:U:C2'	5:M:509:U:O5'	2.63	0.45
5:M:529:U:O2'	5:M:530:U:C5'	2.56	0.45
5:M:529:U:C2	5:M:530:U:C5	3.04	0.45
6:N:302:U:O2'	6:N:303:U:O4'	2.35	0.45
6:N:346:U:H3'	6:N:347:U:P	2.55	0.45
6:N:362:U:O2	6:N:363:U:C6	2.70	0.45
6:N:494:U:H2'	6:N:495:U:C6	2.51	0.45
6:N:522:U:C2	6:N:523:U:C5	3.05	0.45
1:I:91:A:C2	1:I:92:A:C1'	2.99	0.45
1:I:158:A:N6	1:I:159:A:H62	2.13	0.45
1:I:261:A:C5	1:I:262:A:C5	3.04	0.45
1:I:317:A:C2	1:I:318:A:N9	2.84	0.45
1:I:364:A:HO2'	1:I:365:A:C5'	2.22	0.45
2:J:83:A:C2'	2:J:84:A:C8	2.87	0.45
2:J:99:A:N3	2:J:100:A:C8	2.84	0.45
2:J:118:A:C4	2:J:119:A:N7	2.85	0.45
2:J:156:A:H2'	2:J:157:A:C5'	2.45	0.45
2:J:228:A:C6	2:J:229:A:C6	3.05	0.45
2:J:231:A:C4	2:J:232:A:N7	2.85	0.45
3:K:38:A:C4	3:K:39:A:C8	3.05	0.45
3:K:82:A:C2	3:K:83:A:C4	3.04	0.45
3:K:249:A:C2	3:K:250:A:N9	2.84	0.45
4:L:484:U:N3	4:L:485:U:C5	2.84	0.45
4:L:507:U:H2'	4:L:508:U:C6	2.48	0.45
4:L:553:U:H2'	4:L:554:U:C6	2.45	0.45
4:L:631:U:C2	4:L:632:U:C6	3.05	0.45
4:L:657:U:HO2'	4:L:658:U:H5'	1.73	0.45
4:L:681:U:C2	4:L:682:U:C5	3.05	0.45
4:L:766:U:H2'	4:L:767:U:C1'	2.46	0.45
4:L:774:U:O2	4:L:775:U:C5	2.68	0.45
4:L:799:U:N3	4:L:800:U:C5	2.85	0.45
4:L:813:U:C4	4:L:814:U:C5	3.04	0.45
5:M:355:U:C2	5:M:356:U:C6	3.05	0.45
5:M:451:U:C4	5:M:452:U:C5	3.05	0.45
6:N:294:U:H2'	6:N:295:U:O4'	2.16	0.45
6:N:406:U:C2'	6:N:407:U:H6	2.25	0.45
6:N:438:U:C2	6:N:439:U:C6	3.05	0.45
1:I:25:A:H2'	1:I:26:A:H8	1.82	0.45
1:I:41:A:N3	1:I:42:A:N9	2.63	0.45
1:I:129:A:C2	1:I:130:A:C5	3.05	0.45
1:I:142:A:C2'	1:I:143:A:C5'	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:226:A:C6	1:I:227:A:N7	2.85	0.45
1:I:246:A:H2'	1:I:247:A:H8	1.81	0.45
1:I:254:A:H2'	1:I:255:A:O5'	2.16	0.45
1:I:277:A:C4	1:I:278:A:C8	3.04	0.45
1:I:283:A:H2	1:I:284:A:C4	2.30	0.45
1:I:288:A:C2'	1:I:289:A:C5'	2.94	0.45
1:I:296:A:H2'	1:I:297:A:C4'	2.46	0.45
1:I:330:A:C2	1:I:331:A:C4	3.05	0.45
2:J:47:A:N3	2:J:48:A:N9	2.63	0.45
2:J:91:A:C2'	2:J:92:A:O5'	2.65	0.45
2:J:94:A:H2'	2:J:95:A:H8	1.81	0.45
2:J:173:A:H2'	2:J:174:A:O4'	2.16	0.45
2:J:183:A:C6	2:J:184:A:N7	2.84	0.45
3:K:88:A:C2'	3:K:89:A:C5'	2.94	0.45
3:K:92:A:N3	3:K:93:A:C8	2.85	0.45
3:K:113:A:H2'	3:K:114:A:O4'	2.16	0.45
3:K:121:A:N1	6:N:411:U:O4	2.50	0.45
3:K:127:A:H2'	3:K:128:A:H8	1.82	0.45
3:K:154:A:O2'	3:K:155:A:C5'	2.53	0.45
3:K:168:A:N3	3:K:169:A:N9	2.65	0.45
4:L:461:U:N3	4:L:462:U:C4	2.85	0.45
4:L:465:U:C4	4:L:466:U:O4	2.69	0.45
4:L:595:U:H2'	4:L:596:U:O5'	2.17	0.45
4:L:597:U:N3	4:L:598:U:C5	2.85	0.45
4:L:728:U:C4	4:L:729:U:O4	2.68	0.45
4:L:735:U:C4	4:L:736:U:C5	3.04	0.45
4:L:745:U:H2'	4:L:746:U:C6	2.51	0.45
4:L:778:U:O2	4:L:779:U:C6	2.70	0.45
4:L:807:U:O2	4:L:808:U:C1'	2.64	0.45
5:M:305:U:N3	5:M:306:U:C5	2.85	0.45
5:M:377:U:N3	5:M:378:U:C4	2.85	0.45
5:M:397:U:C2'	5:M:398:U:C5'	2.94	0.45
5:M:402:U:C2	5:M:403:U:C5	3.04	0.45
5:M:447:U:C4	5:M:448:U:O4	2.70	0.45
5:M:499:U:H2'	5:M:500:U:H6	1.81	0.45
5:M:527:U:N3	5:M:528:U:C4	2.84	0.45
6:N:344:U:C2	6:N:345:U:C5	3.05	0.45
6:N:350:U:N3	6:N:351:U:C4	2.84	0.45
6:N:361:U:C2	6:N:362:U:C5	3.05	0.45
6:N:504:U:H2'	6:N:505:U:H6	1.81	0.45
1:I:18:A:H2'	1:I:19:A:C5'	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:72:A:H2'	1:I:73:A:O4'	2.17	0.45
1:I:113:A:O2'	1:I:114:A:O4'	2.31	0.45
1:I:139:A:N3	1:I:140:A:C8	2.85	0.45
1:I:237:A:C2'	1:I:238:A:O4'	2.65	0.45
1:I:251:A:N1	1:I:252:A:C6	2.85	0.45
1:I:284:A:N3	1:I:285:A:C1'	2.80	0.45
1:I:285:A:C2'	1:I:286:A:O5'	2.65	0.45
1:I:323:A:N1	1:I:324:A:C5	2.85	0.45
1:I:332:A:N1	1:I:333:A:C5	2.85	0.45
1:I:361:A:H2'	1:I:362:A:C8	2.51	0.45
1:I:387:A:C2	1:I:388:A:C4	3.04	0.45
2:J:67:A:C2	2:J:68:A:C5	3.04	0.45
2:J:111:A:H2'	2:J:112:A:H8	1.82	0.45
2:J:181:A:C2	2:J:182:A:C4	3.04	0.45
2:J:199:A:N1	2:J:200:A:C5	2.85	0.45
2:J:210:A:C2	2:J:211:A:C4	3.05	0.45
2:J:234:A:C2	2:J:235:A:C5	3.04	0.45
3:K:69:A:H2'	3:K:70:A:H8	1.81	0.45
3:K:107:A:C2	3:K:108:A:N9	2.84	0.45
3:K:133:A:C4	3:K:134:A:C8	3.05	0.45
3:K:256:A:C2'	3:K:257:A:O5'	2.64	0.45
4:L:458:U:C2'	4:L:459:U:C5'	2.95	0.45
4:L:572:U:H2'	4:L:573:U:C5'	2.46	0.45
4:L:657:U:C2'	4:L:658:U:C5'	2.94	0.45
4:L:687:U:N3	4:L:688:U:C5	2.85	0.45
4:L:709:U:H2'	4:L:710:U:O5'	2.16	0.45
4:L:818:U:H2'	4:L:819:U:C6	2.52	0.45
5:M:445:U:C2'	5:M:446:U:O5'	2.62	0.45
5:M:536:U:C2'	5:M:537:U:O5'	2.64	0.45
5:M:542:U:H2'	5:M:543:U:H6	1.81	0.45
6:N:348:U:C2	6:N:349:U:C5	3.04	0.45
6:N:357:U:O2	6:N:358:U:C6	2.70	0.45
6:N:406:U:C2'	6:N:407:U:O5'	2.61	0.45
6:N:413:U:H2'	6:N:414:U:C5'	2.47	0.45
6:N:415:U:H2'	6:N:416:U:C5	2.49	0.45
6:N:500:U:H2'	6:N:501:U:H6	1.81	0.45
1:I:59:A:C2'	1:I:60:A:O5'	2.65	0.45
1:I:74:A:C2	1:I:75:A:N3	2.84	0.45
1:I:77:A:C6	1:I:78:A:C5	3.04	0.45
1:I:80:A:C5	1:I:81:A:N7	2.85	0.45
1:I:185:A:C2	1:I:186:A:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:186:A:H2'	1:I:187:A:H8	1.82	0.45
1:I:231:A:C2	1:I:232:A:C4	3.05	0.45
1:I:273:A:C2'	1:I:274:A:O5'	2.61	0.45
1:I:305:A:N1	1:I:306:A:C5	2.85	0.45
1:I:369:A:O2'	1:I:370:A:H5'	2.16	0.45
1:I:410:A:H2'	1:I:411:A:H8	1.82	0.45
2:J:8:A:N3	2:J:9:A:N9	2.64	0.45
2:J:11:A:H2'	2:J:12:A:O5'	2.13	0.45
2:J:38:A:C2	2:J:39:A:N9	2.85	0.45
2:J:47:A:O2'	2:J:48:A:C4'	2.59	0.45
2:J:56:A:N3	2:J:57:A:O4'	2.50	0.45
2:J:84:A:N3	2:J:85:A:C8	2.85	0.45
2:J:107:A:N1	2:J:108:A:C5	2.85	0.45
2:J:138:A:C6	2:J:139:A:C6	3.05	0.45
2:J:175:A:C4	2:J:176:A:N7	2.85	0.45
2:J:186:A:N1	2:J:187:A:C5	2.85	0.45
2:J:214:A:C2	2:J:215:A:C1'	2.99	0.45
3:K:105:A:H2'	3:K:106:A:C1'	2.47	0.45
3:K:137:A:N1	3:K:138:A:C5	2.85	0.45
3:K:138:A:N6	3:K:139:A:H62	2.14	0.45
3:K:166:A:HO2'	3:K:167:A:C5'	2.03	0.45
4:L:610:U:C2	4:L:611:U:C6	3.04	0.45
4:L:615:U:C2'	4:L:616:U:C5'	2.95	0.45
4:L:699:U:C3'	4:L:700:U:C5'	2.83	0.45
4:L:705:U:O2	4:L:706:U:O4'	2.35	0.45
4:L:757:U:C2'	4:L:758:U:O4'	2.64	0.45
4:L:779:U:H2'	4:L:780:U:H6	1.82	0.45
4:L:800:U:N3	4:L:801:U:C4	2.85	0.45
4:L:816:U:H2'	4:L:817:U:H6	1.81	0.45
5:M:330:U:N3	5:M:331:U:C5	2.85	0.45
6:N:399:U:H2'	6:N:400:U:C6	2.52	0.45
6:N:447:U:C2'	6:N:448:U:C5'	2.95	0.45
6:N:529:U:H2'	6:N:530:U:H6	1.81	0.45
1:I:43:A:O2'	1:I:44:A:O5'	2.34	0.45
1:I:50:A:C6	1:I:51:A:N7	2.85	0.45
1:I:127:A:C4	1:I:128:A:C8	3.05	0.45
1:I:209:A:C2	1:I:210:A:C5	3.05	0.45
1:I:249:A:H2	1:I:250:A:C4	2.23	0.45
1:I:326:A:H2'	1:I:327:A:C5'	2.47	0.45
1:I:327:A:H2'	1:I:328:A:O5'	2.16	0.45
1:I:339:A:O2'	1:I:340:A:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:95:A:C2	2:J:96:A:C8	3.05	0.45
2:J:105:A:C6	2:J:106:A:C6	3.04	0.45
2:J:181:A:O2'	2:J:182:A:C5'	2.62	0.45
2:J:183:A:N3	2:J:184:A:N9	2.63	0.45
2:J:187:A:C2	2:J:188:A:C4	3.05	0.45
2:J:246:A:H2'	2:J:247:A:H8	1.81	0.45
3:K:30:A:H2'	3:K:31:A:H8	1.82	0.45
3:K:112:A:C4	3:K:113:A:N7	2.85	0.45
4:L:463:U:C2'	4:L:464:U:O4'	2.65	0.45
4:L:471:U:H2'	4:L:472:U:C6	2.52	0.45
4:L:530:U:H2'	4:L:531:U:H5'	1.98	0.45
4:L:541:U:H2'	4:L:542:U:O5'	2.17	0.45
4:L:624:U:O2'	4:L:625:U:C5'	2.57	0.45
4:L:662:U:N3	4:L:663:U:C5	2.85	0.45
4:L:677:U:H2'	4:L:678:U:C5'	2.46	0.45
4:L:738:U:O2	4:L:739:U:C5	2.70	0.45
4:L:758:U:C5	4:L:759:U:H5	2.35	0.45
4:L:770:U:C5	4:L:771:U:C5	3.05	0.45
4:L:804:U:C2'	4:L:805:U:H5'	2.46	0.45
5:M:302:U:H2'	5:M:303:U:H6	1.82	0.45
5:M:303:U:H2'	5:M:304:U:C6	2.49	0.45
5:M:360:U:C2'	5:M:361:U:O5'	2.62	0.45
5:M:362:U:N3	5:M:363:U:C4	2.85	0.45
6:N:274:U:C2'	6:N:275:U:O5'	2.64	0.45
6:N:291:U:HO2'	6:N:292:U:H5'	1.80	0.45
6:N:359:U:H2'	6:N:360:U:O5'	2.16	0.45
6:N:365:U:C2	6:N:366:U:C6	3.05	0.45
6:N:443:U:C4	6:N:444:U:C5	3.05	0.45
6:N:463:U:C2'	6:N:464:U:C5'	2.95	0.45
6:N:482:U:C4	6:N:483:U:C5	3.05	0.45
6:N:496:U:C2'	6:N:497:U:C4'	2.94	0.45
1:I:61:A:C2'	1:I:62:A:O4'	2.65	0.44
1:I:74:A:HO2'	1:I:75:A:C4'	2.30	0.44
1:I:96:A:N1	1:I:97:A:C6	2.84	0.44
1:I:111:A:C2	1:I:112:A:C5	3.04	0.44
1:I:175:A:H2	1:I:176:A:C4	2.34	0.44
1:I:179:A:O5'	1:I:180:A:OP2	2.34	0.44
1:I:347:A:H2'	1:I:348:A:O5'	2.16	0.44
2:J:13:A:N6	5:M:541:U:O4	2.50	0.44
2:J:31:A:H2'	2:J:32:A:H8	1.82	0.44
2:J:39:A:H2'	2:J:40:A:C5'	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:51:A:C2	2:J:52:A:C5	3.04	0.44
2:J:98:A:N6	2:J:99:A:N6	2.65	0.44
2:J:102:A:O2'	2:J:103:A:H5'	2.17	0.44
2:J:119:A:H61	2:J:120:A:H61	1.58	0.44
2:J:122:A:H61	2:J:123:A:N6	2.00	0.44
2:J:181:A:O2'	2:J:182:A:P	2.75	0.44
2:J:183:A:C2	2:J:184:A:H1'	2.50	0.44
2:J:209:A:H2'	2:J:210:A:O4'	2.17	0.44
2:J:249:A:N3	2:J:250:A:C8	2.85	0.44
3:K:91:A:N1	3:K:92:A:C5	2.85	0.44
3:K:93:A:H2'	3:K:94:A:O4'	2.17	0.44
3:K:154:A:C6	3:K:155:A:N7	2.76	0.44
3:K:203:A:H2	3:K:204:A:C5	2.17	0.44
3:K:209:A:N6	3:K:210:A:H62	2.14	0.44
3:K:254:A:N6	3:K:255:A:N6	2.65	0.44
4:L:554:U:C2'	4:L:555:U:H6	2.29	0.44
4:L:819:U:H2'	4:L:820:U:C5	2.53	0.44
5:M:450:U:C4	5:M:451:U:C4	3.06	0.44
6:N:484:U:H3'	6:N:485:U:P	2.56	0.44
1:I:26:A:N3	1:I:27:A:C8	2.85	0.44
1:I:37:A:C2	1:I:38:A:C5	3.05	0.44
1:I:47:A:N1	1:I:48:A:C5	2.85	0.44
1:I:54:A:H2'	1:I:55:A:C8	2.51	0.44
1:I:79:A:H2'	1:I:80:A:H8	1.82	0.44
1:I:82:A:C2	1:I:83:A:N9	2.86	0.44
1:I:136:A:N3	1:I:137:A:O4'	2.50	0.44
1:I:317:A:C4	1:I:318:A:C8	3.06	0.44
1:I:332:A:C6	1:I:333:A:C5	3.05	0.44
1:I:365:A:H2'	1:I:366:A:C8	2.47	0.44
2:J:33:A:O2'	2:J:34:A:H5'	2.16	0.44
2:J:38:A:C2'	2:J:39:A:O5'	2.60	0.44
2:J:63:A:H2'	2:J:64:A:C8	2.52	0.44
2:J:108:A:H2'	2:J:109:A:H8	1.82	0.44
2:J:116:A:C2	2:J:117:A:C6	3.03	0.44
2:J:158:A:H2'	2:J:159:A:C8	2.50	0.44
2:J:253:A:C5	2:J:254:A:N7	2.85	0.44
3:K:139:A:C2	3:K:140:A:C5	3.05	0.44
3:K:161:A:C4	3:K:162:A:C8	3.05	0.44
3:K:165:A:C2'	3:K:166:A:O4'	2.60	0.44
4:L:569:U:H2'	4:L:570:U:O5'	2.17	0.44
4:L:621:U:O2'	4:L:622:U:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:711:U:C5	4:L:712:U:H5	2.35	0.44
4:L:757:U:C2'	4:L:758:U:C5'	2.93	0.44
4:L:762:U:H2'	4:L:763:U:C6	2.40	0.44
5:M:298:U:O2	5:M:299:U:C6	2.70	0.44
5:M:306:U:C2	5:M:307:U:C5	3.06	0.44
5:M:411:U:C2'	5:M:412:U:C5'	2.95	0.44
5:M:522:U:C2	5:M:523:U:C5	3.06	0.44
6:N:398:U:H2'	6:N:399:U:H6	1.81	0.44
6:N:434:U:C2'	6:N:435:U:O5'	2.59	0.44
6:N:474:U:C2	6:N:475:U:C5	3.05	0.44
6:N:518:U:C3'	6:N:519:U:P	2.97	0.44
6:N:527:U:N3	6:N:528:U:C4	2.84	0.44
1:I:15:A:C2	1:I:16:A:C4	3.05	0.44
1:I:71:A:C2'	1:I:72:A:O4'	2.58	0.44
1:I:130:A:C4	1:I:131:A:C8	3.05	0.44
1:I:140:A:N6	1:I:141:A:H61	2.13	0.44
1:I:164:A:C2	4:L:662:U:C2	3.05	0.44
1:I:211:A:HO2'	1:I:212:A:H5'	1.77	0.44
1:I:295:A:C2'	1:I:296:A:O5'	2.66	0.44
1:I:336:A:C2	1:I:337:A:C4	3.05	0.44
1:I:358:A:C2'	1:I:359:A:O5'	2.58	0.44
1:I:373:A:C6	1:I:374:A:C6	3.06	0.44
2:J:88:A:N3	2:J:89:A:N9	2.59	0.44
2:J:199:A:H2'	2:J:200:A:H8	1.82	0.44
3:K:40:A:C6	3:K:41:A:N6	2.86	0.44
3:K:60:A:C2'	3:K:61:A:C5'	2.96	0.44
3:K:79:A:N6	3:K:80:A:N6	2.65	0.44
3:K:85:A:HO2'	3:K:86:A:H5'	1.74	0.44
3:K:103:A:H2'	3:K:104:A:C8	2.49	0.44
3:K:127:A:C2	3:K:128:A:C5	3.05	0.44
4:L:451:U:O4	4:L:452:U:O4	2.35	0.44
4:L:468:U:N3	4:L:469:U:C5	2.85	0.44
4:L:545:U:O2	4:L:546:U:O4'	2.35	0.44
4:L:560:U:N3	4:L:561:U:C5	2.85	0.44
4:L:655:U:C2'	4:L:656:U:O5'	2.65	0.44
4:L:682:U:C2'	4:L:683:U:O5'	2.65	0.44
4:L:713:U:C2	4:L:714:U:C5	3.05	0.44
4:L:751:U:H2'	4:L:752:U:C4'	2.46	0.44
4:L:772:U:C2'	4:L:773:U:C5'	2.95	0.44
4:L:804:U:C2'	4:L:805:U:O4'	2.65	0.44
5:M:291:U:H2'	5:M:292:U:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:317:U:C2	5:M:318:U:C6	3.06	0.44
5:M:523:U:O2'	5:M:524:U:O5'	2.35	0.44
5:M:536:U:O2'	5:M:537:U:C5'	2.36	0.44
6:N:411:U:C2'	6:N:412:U:C5'	2.94	0.44
6:N:427:U:H2'	6:N:428:U:O4'	2.17	0.44
6:N:455:U:O3'	6:N:456:U:H5'	2.17	0.44
1:I:16:A:N6	1:I:17:A:C6	2.84	0.44
1:I:64:A:C4	1:I:65:A:N7	2.85	0.44
1:I:89:A:C2	4:L:737:U:C2	3.05	0.44
1:I:90:A:H2'	1:I:91:A:C5'	2.43	0.44
1:I:174:A:C2	1:I:175:A:C5	3.05	0.44
1:I:229:A:H2'	1:I:230:A:O5'	2.17	0.44
1:I:277:A:C5	1:I:278:A:C5	3.05	0.44
1:I:292:A:C2'	1:I:293:A:C5'	2.95	0.44
1:I:324:A:C4	1:I:325:A:C8	3.05	0.44
1:I:326:A:C2	1:I:327:A:C5	3.05	0.44
1:I:332:A:H2'	1:I:333:A:C5'	2.47	0.44
2:J:64:A:H2'	2:J:65:A:O4'	2.17	0.44
2:J:76:A:N3	2:J:77:A:C8	2.84	0.44
2:J:127:A:C2	2:J:128:A:C1'	3.00	0.44
2:J:166:A:N1	2:J:167:A:C6	2.86	0.44
2:J:178:A:C6	2:J:179:A:N7	2.85	0.44
2:J:222:A:C2	2:J:223:A:C1'	3.00	0.44
2:J:237:A:O2'	2:J:238:A:C5'	2.66	0.44
3:K:131:A:H2'	3:K:132:A:H8	1.82	0.44
4:L:529:U:O2	4:L:530:U:C6	2.71	0.44
4:L:613:U:C2	4:L:614:U:C6	3.05	0.44
4:L:614:U:H2'	4:L:615:U:C6	2.50	0.44
4:L:725:U:H2'	4:L:726:U:H6	1.83	0.44
4:L:781:U:H2'	4:L:782:U:O5'	2.17	0.44
4:L:810:U:O2	4:L:811:U:C6	2.71	0.44
4:L:812:U:C2'	4:L:813:U:O4'	2.63	0.44
5:M:295:U:N3	5:M:296:U:C5	2.86	0.44
5:M:364:U:C2	5:M:365:U:C5	3.05	0.44
5:M:484:U:C4	5:M:485:U:C4	3.05	0.44
1:I:12:A:H2'	1:I:13:A:O4'	2.17	0.44
1:I:49:A:C2'	1:I:50:A:H5'	2.40	0.44
1:I:179:A:H2'	1:I:180:A:H8	1.83	0.44
1:I:212:A:H2'	1:I:213:A:H8	1.82	0.44
1:I:228:A:N1	1:I:229:A:C6	2.85	0.44
1:I:233:A:C2	1:I:234:A:N9	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:233:A:C6	1:I:234:A:C5	3.06	0.44
1:I:235:A:C2	1:I:236:A:C4	3.05	0.44
1:I:245:A:O2'	1:I:246:A:H5'	2.16	0.44
1:I:320:A:C2'	1:I:321:A:O5'	2.63	0.44
1:I:328:A:N3	1:I:329:A:C8	2.86	0.44
1:I:394:A:H2'	1:I:395:A:H8	1.80	0.44
2:J:16:A:N3	2:J:17:A:C8	2.86	0.44
2:J:87:A:H2'	2:J:88:A:H8	1.83	0.44
2:J:130:A:H2'	2:J:131:A:O5'	2.16	0.44
2:J:138:A:H61	2:J:139:A:N6	2.08	0.44
2:J:152:A:C4	2:J:153:A:C8	3.05	0.44
2:J:189:A:H2'	2:J:190:A:H8	1.83	0.44
3:K:79:A:C5	3:K:80:A:N7	2.86	0.44
3:K:84:A:N3	3:K:85:A:C8	2.85	0.44
3:K:105:A:C5	3:K:106:A:C5	3.05	0.44
3:K:141:A:O2'	3:K:142:A:P	2.76	0.44
3:K:163:A:H2'	3:K:164:A:O4'	2.17	0.44
3:K:256:A:H2'	3:K:257:A:O5'	2.17	0.44
4:L:449:U:H2'	4:L:450:U:C6	2.48	0.44
4:L:593:U:C4	4:L:594:U:C4	3.05	0.44
4:L:757:U:C5	4:L:758:U:C5	3.05	0.44
4:L:781:U:C4	4:L:782:U:C4	3.05	0.44
5:M:298:U:H2'	5:M:299:U:C6	2.44	0.44
5:M:357:U:H2'	5:M:358:U:H6	1.82	0.44
5:M:381:U:H2'	5:M:382:U:O4'	2.18	0.44
5:M:460:U:N1	5:M:461:U:C5	2.85	0.44
5:M:471:U:O2'	5:M:472:U:C5'	2.58	0.44
5:M:541:U:C2'	5:M:542:U:C5'	2.96	0.44
6:N:350:U:O4	6:N:351:U:O4	2.35	0.44
1:I:82:A:N1	1:I:83:A:C5	2.85	0.44
1:I:94:A:H2'	1:I:95:A:C8	2.43	0.44
1:I:119:A:N3	1:I:120:A:N9	2.55	0.44
1:I:185:A:C2'	1:I:186:A:H5'	2.48	0.44
1:I:292:A:C2	1:I:293:A:C5	3.06	0.44
1:I:327:A:N1	1:I:328:A:C5	2.85	0.44
1:I:340:A:O2'	1:I:341:A:O5'	2.36	0.44
1:I:341:A:H2'	1:I:342:A:O4'	2.18	0.44
1:I:409:A:H2'	1:I:410:A:C8	2.52	0.44
2:J:35:A:C2	2:J:36:A:C5	3.05	0.44
2:J:51:A:C6	2:J:52:A:C5	3.06	0.44
2:J:65:A:C2	2:J:66:A:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:68:A:H2'	2:J:69:A:H8	1.82	0.44
2:J:143:A:C2	2:J:144:A:N7	2.79	0.44
2:J:148:A:H2'	2:J:149:A:H8	1.83	0.44
2:J:204:A:C2	2:J:205:A:C4	3.05	0.44
2:J:207:A:N3	2:J:208:A:C8	2.86	0.44
2:J:234:A:C4	2:J:235:A:C8	3.05	0.44
2:J:235:A:C6	2:J:236:A:N7	2.85	0.44
3:K:83:A:O2'	3:K:84:A:H5'	2.18	0.44
3:K:87:A:C6	3:K:88:A:C5	3.06	0.44
3:K:87:A:N1	3:K:88:A:N7	2.66	0.44
3:K:105:A:C2	3:K:106:A:C6	3.02	0.44
3:K:110:A:N3	3:K:111:A:C8	2.86	0.44
3:K:162:A:C2	3:K:163:A:C4	3.05	0.44
3:K:210:A:C2	3:K:211:A:C4	3.05	0.44
3:K:255:A:O2'	3:K:256:A:H5'	2.18	0.44
4:L:482:U:C2	4:L:483:U:C5	3.06	0.44
4:L:494:U:H2'	4:L:495:U:C5'	2.48	0.44
4:L:614:U:C2'	4:L:615:U:H5'	2.47	0.44
4:L:643:U:C4	4:L:644:U:C5	3.06	0.44
4:L:698:U:H2'	4:L:699:U:O5'	2.17	0.44
4:L:729:U:O2	4:L:730:U:C6	2.70	0.44
4:L:775:U:O2	4:L:776:U:C6	2.71	0.44
4:L:804:U:N3	4:L:805:U:C5	2.85	0.44
5:M:457:U:H2'	5:M:458:U:C6	2.50	0.44
5:M:491:U:N3	5:M:492:U:C5	2.86	0.44
5:M:508:U:O2	5:M:509:U:C6	2.71	0.44
6:N:395:U:C2'	6:N:396:U:C5'	2.95	0.44
6:N:483:U:N1	6:N:484:U:C5	2.85	0.44
6:N:523:U:C2	6:N:524:U:C5	3.05	0.44
1:I:61:A:N3	1:I:62:A:C8	2.86	0.44
1:I:89:A:C2	1:I:90:A:C5	3.06	0.44
1:I:122:A:C2'	1:I:123:A:O4'	2.66	0.44
1:I:139:A:H2'	1:I:140:A:H8	1.83	0.44
1:I:169:A:C2	1:I:170:A:C5	3.05	0.44
1:I:170:A:N3	1:I:171:A:C8	2.85	0.44
1:I:198:A:H2'	1:I:199:A:H8	1.83	0.44
1:I:203:A:C2'	1:I:204:A:H5'	2.47	0.44
1:I:212:A:N1	1:I:213:A:C5	2.85	0.44
1:I:242:A:N3	1:I:243:A:H1'	2.30	0.44
1:I:242:A:N1	1:I:243:A:C5	2.86	0.44
1:I:263:A:C2	1:I:264:A:N9	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:273:A:C5	1:I:274:A:N7	2.85	0.44
1:I:284:A:H2'	1:I:285:A:O4'	2.18	0.44
1:I:328:A:C4	1:I:329:A:N7	2.86	0.44
1:I:388:A:HO2'	1:I:389:A:C4'	2.25	0.44
2:J:44:A:C6	2:J:45:A:N7	2.86	0.44
2:J:89:A:C4	2:J:90:A:C8	3.01	0.44
2:J:125:A:H2'	2:J:126:A:H8	1.82	0.44
2:J:126:A:H2'	2:J:127:A:C5'	2.48	0.44
2:J:218:A:C2	2:J:219:A:N7	2.86	0.44
2:J:238:A:O2'	2:J:239:A:H5'	2.18	0.44
2:J:245:A:H2'	2:J:246:A:C5'	2.47	0.44
3:K:17:A:H2'	3:K:18:A:H8	1.83	0.44
3:K:92:A:H2'	3:K:93:A:O4'	2.18	0.44
3:K:95:A:N3	3:K:96:A:C8	2.86	0.44
3:K:140:A:C5	3:K:141:A:N7	2.85	0.44
4:L:439:U:C2'	4:L:440:U:H5'	2.46	0.44
4:L:444:U:H2'	4:L:445:U:H6	1.83	0.44
4:L:513:U:H2'	4:L:514:U:O5'	2.17	0.44
4:L:615:U:H2'	4:L:616:U:H6	1.83	0.44
4:L:683:U:N3	4:L:684:U:C4	2.86	0.44
4:L:698:U:H2'	4:L:699:U:C6	2.48	0.44
4:L:792:U:C2	4:L:793:U:C6	3.05	0.44
5:M:355:U:H2'	5:M:356:U:C6	2.48	0.44
5:M:403:U:H2'	5:M:404:U:O5'	2.18	0.44
5:M:411:U:H2'	5:M:412:U:H6	1.83	0.44
5:M:437:U:C4	5:M:438:U:C4	3.05	0.44
6:N:313:U:O4	6:N:314:U:O4	2.35	0.44
6:N:406:U:N1	6:N:407:U:C6	2.86	0.44
6:N:461:U:N3	6:N:462:U:C4	2.86	0.44
6:N:516:U:HO3'	6:N:517:U:P	2.32	0.44
1:I:18:A:N1	1:I:19:A:C6	2.86	0.44
1:I:21:A:C6	1:I:22:A:N6	2.86	0.44
1:I:61:A:C2'	1:I:62:A:H8	2.14	0.44
1:I:82:A:N3	1:I:83:A:N9	2.66	0.44
1:I:94:A:C4	1:I:95:A:C8	3.05	0.44
1:I:136:A:H2'	1:I:137:A:O4'	2.18	0.44
1:I:146:A:O2'	1:I:147:A:H5'	2.17	0.44
1:I:157:A:C2	1:I:158:A:C4	3.06	0.44
1:I:195:A:C2'	1:I:196:A:H5'	2.47	0.44
1:I:199:A:N1	1:I:200:A:C5	2.86	0.44
1:I:231:A:H2'	1:I:232:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:307:A:O2'	1:I:308:A:C5'	2.55	0.44
1:I:334:A:C2	4:L:492:U:O2	2.70	0.44
1:I:341:A:C2	1:I:342:A:N9	2.86	0.44
1:I:400:A:N6	1:I:401:A:H62	2.08	0.44
1:I:407:A:H2'	1:I:408:A:H8	1.82	0.44
2:J:29:A:HO2'	2:J:30:A:C5'	1.99	0.44
2:J:113:A:C2	2:J:114:A:C8	3.06	0.44
2:J:158:A:C4	2:J:159:A:N7	2.86	0.44
2:J:198:A:H2'	2:J:199:A:O4'	2.18	0.44
2:J:225:A:C6	2:J:226:A:C5	3.05	0.44
2:J:228:A:N1	2:J:229:A:C6	2.86	0.44
2:J:232:A:H2'	2:J:233:A:H8	1.81	0.44
2:J:258:A:O2'	2:J:259:A:H5'	2.18	0.44
3:K:111:A:C4	3:K:112:A:C8	3.06	0.44
3:K:206:A:O2'	3:K:207:A:C5'	2.63	0.44
4:L:422:U:O2'	4:L:423:U:O4'	2.35	0.44
4:L:473:U:O4	4:L:474:U:O4	2.36	0.44
4:L:474:U:H2'	4:L:475:U:C5'	2.48	0.44
4:L:498:U:H2'	4:L:499:U:C6	2.51	0.44
4:L:575:U:O2	4:L:576:U:N1	2.50	0.44
4:L:637:U:N1	4:L:638:U:C5	2.85	0.44
4:L:652:U:C2'	4:L:653:U:O5'	2.66	0.44
4:L:704:U:HO2'	4:L:705:U:H5'	1.68	0.44
4:L:713:U:C2'	4:L:714:U:H6	2.30	0.44
4:L:720:U:N3	4:L:721:U:C5	2.85	0.44
4:L:812:U:H2'	4:L:813:U:C4'	2.47	0.44
5:M:325:U:C2	5:M:326:U:C5	3.06	0.44
5:M:349:U:N3	5:M:350:U:C4	2.86	0.44
5:M:456:U:O2	5:M:457:U:C6	2.71	0.44
5:M:529:U:O2	5:M:530:U:C6	2.71	0.44
5:M:538:U:C4	5:M:539:U:C4	3.06	0.44
6:N:276:U:N3	6:N:277:U:C5	2.86	0.44
6:N:284:U:C2	6:N:285:U:C5	3.05	0.44
6:N:328:U:C2'	6:N:329:U:H6	2.14	0.44
6:N:352:U:H2'	6:N:353:U:C6	2.53	0.44
6:N:400:U:H2'	6:N:401:U:O4'	2.18	0.44
6:N:490:U:C4	6:N:491:U:C4	3.05	0.44
6:N:504:U:C2	6:N:505:U:C5	3.06	0.44
1:I:207:A:C4	1:I:208:A:C8	3.05	0.44
1:I:231:A:C6	1:I:232:A:N6	2.86	0.44
1:I:251:A:N1	1:I:252:A:C5	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:252:A:HO2'	1:I:253:A:C5'	2.08	0.44
1:I:272:A:C2	4:L:554:U:C2	3.06	0.44
1:I:299:A:H2'	1:I:300:A:O4'	2.17	0.44
1:I:323:A:C2'	1:I:324:A:C4'	2.86	0.44
1:I:354:A:C2'	1:I:355:A:H5'	2.48	0.44
2:J:34:A:C2'	2:J:35:A:O5'	2.63	0.44
2:J:51:A:O2'	2:J:52:A:H5'	2.18	0.44
2:J:59:A:C4	2:J:60:A:C8	3.05	0.44
2:J:191:A:N1	2:J:192:A:C5	2.86	0.44
2:J:236:A:N6	2:J:237:A:N6	2.66	0.44
3:K:101:A:C2	3:K:102:A:C5	3.05	0.44
3:K:131:A:N1	3:K:132:A:C6	2.86	0.44
3:K:132:A:N6	6:N:400:U:O4	2.50	0.44
3:K:146:A:C2	3:K:147:A:N9	2.86	0.44
3:K:153:A:N3	3:K:154:A:C1'	2.81	0.44
4:L:541:U:O2	4:L:542:U:C6	2.71	0.44
4:L:580:U:N3	4:L:581:U:C5	2.85	0.44
4:L:655:U:C2'	4:L:656:U:H5'	2.47	0.44
4:L:672:U:C2'	4:L:673:U:H6	2.15	0.44
4:L:686:U:O2	4:L:687:U:C6	2.70	0.44
4:L:797:U:O2'	4:L:798:U:C5'	2.51	0.44
5:M:320:U:H2'	5:M:321:U:O4'	2.17	0.44
5:M:335:U:C2'	5:M:336:U:C6	2.98	0.44
5:M:423:U:O2	5:M:424:U:C5	2.70	0.44
5:M:438:U:C4	5:M:439:U:C5	3.05	0.44
5:M:465:U:H2'	5:M:466:U:C4'	2.48	0.44
5:M:492:U:C4	5:M:493:U:C5	3.06	0.44
6:N:388:U:H2'	6:N:389:U:C5	2.46	0.44
6:N:464:U:C2	6:N:465:U:C5	3.05	0.44
6:N:472:U:N3	6:N:473:U:C5	2.86	0.44
6:N:489:U:C2'	6:N:490:U:O5'	2.64	0.44
1:I:14:A:N1	1:I:15:A:C6	2.86	0.43
1:I:62:A:N1	1:I:63:A:C5	2.86	0.43
1:I:77:A:N6	1:I:78:A:N6	2.66	0.43
1:I:82:A:C4	1:I:83:A:N9	2.84	0.43
1:I:135:A:C5	1:I:136:A:C8	3.05	0.43
1:I:223:A:C4	1:I:224:A:N7	2.85	0.43
1:I:330:A:C4	1:I:331:A:C8	3.06	0.43
2:J:42:A:H2'	2:J:43:A:C1'	2.46	0.43
2:J:144:A:C2	2:J:145:A:C1'	3.01	0.43
2:J:259:A:C2'	2:J:260:A:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:43:A:C5	3:K:44:A:N7	2.86	0.43
3:K:110:A:C2	3:K:111:A:C8	3.06	0.43
3:K:124:A:C2	3:K:125:A:C8	2.94	0.43
3:K:142:A:C4	3:K:143:A:N7	2.85	0.43
3:K:154:A:N6	3:K:155:A:H62	2.10	0.43
3:K:163:A:H2'	3:K:164:A:H8	1.82	0.43
3:K:192:A:N6	3:K:193:A:H62	2.12	0.43
4:L:458:U:C2	4:L:459:U:C6	3.06	0.43
4:L:544:U:O4	4:L:545:U:C4	2.70	0.43
4:L:556:U:N3	4:L:557:U:C5	2.86	0.43
4:L:608:U:C2	4:L:609:U:C5	3.05	0.43
4:L:693:U:N1	4:L:694:U:H5	2.14	0.43
5:M:511:U:C5	5:M:512:U:C5	3.06	0.43
6:N:295:U:H2'	6:N:296:U:H6	1.83	0.43
6:N:327:U:C4	6:N:328:U:C4	3.06	0.43
6:N:388:U:O2'	6:N:389:U:P	2.76	0.43
6:N:444:U:H2'	6:N:445:U:O5'	2.17	0.43
6:N:450:U:N3	6:N:451:U:C4	2.86	0.43
1:I:65:A:C2	1:I:66:A:C5	3.05	0.43
1:I:79:A:C2	4:L:747:U:O2	2.70	0.43
1:I:103:A:C4	1:I:104:A:C8	3.03	0.43
1:I:122:A:O2'	1:I:123:A:C4'	2.61	0.43
1:I:247:A:C5	1:I:248:A:N7	2.85	0.43
1:I:252:A:N1	1:I:253:A:C5	2.86	0.43
1:I:256:A:C6	1:I:257:A:C6	3.06	0.43
1:I:283:A:C2'	1:I:284:A:O5'	2.63	0.43
1:I:286:A:C5	1:I:287:A:C5	3.07	0.43
1:I:337:A:H2'	1:I:338:A:H8	1.83	0.43
1:I:393:A:C2'	1:I:394:A:C5'	2.97	0.43
2:J:12:A:N3	2:J:13:A:C8	2.86	0.43
2:J:61:A:O2'	2:J:62:A:O5'	2.35	0.43
2:J:66:A:C2	2:J:67:A:C5	3.05	0.43
2:J:78:A:C2'	2:J:79:A:C5'	2.96	0.43
2:J:103:A:H2'	2:J:104:A:C5'	2.48	0.43
2:J:105:A:C6	2:J:106:A:C5	3.06	0.43
2:J:135:A:C5	2:J:136:A:N7	2.86	0.43
2:J:137:A:C2	2:J:138:A:C5	3.06	0.43
2:J:202:A:N6	5:M:352:U:O4	2.51	0.43
2:J:218:A:H2'	2:J:219:A:C5'	2.48	0.43
2:J:233:A:H2'	2:J:234:A:H8	1.83	0.43
2:J:262:A:C2'	2:J:263:A:H5'	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:62:A:N1	3:K:63:A:C5	2.86	0.43
3:K:87:A:C2	3:K:88:A:N7	2.86	0.43
3:K:117:A:N1	3:K:118:A:N6	2.66	0.43
3:K:143:A:O2'	3:K:144:A:H5'	2.18	0.43
3:K:165:A:N3	3:K:166:A:N9	2.67	0.43
3:K:174:A:H2'	3:K:175:A:O5'	2.18	0.43
4:L:498:U:N3	4:L:499:U:C5	2.86	0.43
4:L:503:U:H2'	4:L:504:U:O5'	2.18	0.43
4:L:507:U:C2'	4:L:508:U:C4'	2.95	0.43
4:L:541:U:C4	4:L:542:U:C4	3.05	0.43
4:L:733:U:C2'	4:L:734:U:C5'	2.96	0.43
4:L:778:U:N3	4:L:779:U:C4	2.86	0.43
5:M:391:U:C2'	5:M:392:U:C5'	2.95	0.43
6:N:473:U:C2'	6:N:474:U:C5'	2.96	0.43
1:I:11:A:N1	1:I:12:A:C6	2.86	0.43
1:I:36:A:C2	1:I:37:A:C8	3.06	0.43
1:I:39:A:O2'	1:I:40:A:H5'	2.18	0.43
1:I:74:A:N6	1:I:75:A:N6	2.66	0.43
1:I:254:A:C2'	1:I:255:A:O5'	2.64	0.43
1:I:259:A:C2	1:I:260:A:C5	3.06	0.43
1:I:329:A:C6	1:I:330:A:N7	2.86	0.43
1:I:356:A:N6	1:I:357:A:H62	2.16	0.43
2:J:50:A:C2	2:J:51:A:C5	3.06	0.43
2:J:63:A:H2'	2:J:64:A:C5'	2.49	0.43
2:J:69:A:N3	2:J:70:A:C8	2.87	0.43
2:J:138:A:C4	2:J:139:A:N7	2.86	0.43
2:J:175:A:N3	2:J:176:A:C8	2.87	0.43
2:J:224:A:C5	2:J:225:A:C8	3.06	0.43
2:J:258:A:C5	2:J:259:A:N7	2.86	0.43
3:K:64:A:H2'	3:K:65:A:C8	2.52	0.43
3:K:151:A:H2'	3:K:152:A:C8	2.46	0.43
3:K:154:A:C2'	3:K:155:A:C8	2.93	0.43
3:K:184:A:HO3'	3:K:185:A:P	2.29	0.43
4:L:491:U:O2	4:L:492:U:C1'	2.66	0.43
4:L:548:U:C2'	4:L:549:U:H6	2.20	0.43
4:L:614:U:C2	4:L:615:U:C6	3.05	0.43
4:L:636:U:C2	4:L:637:U:C6	3.06	0.43
4:L:700:U:C4	4:L:701:U:C5	3.06	0.43
4:L:740:U:H2'	4:L:741:U:C6	2.47	0.43
4:L:772:U:H2'	4:L:773:U:C6	2.50	0.43
4:L:776:U:H2'	4:L:777:U:C4'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:806:U:H2'	4:L:807:U:C5'	2.46	0.43
5:M:287:U:O2	5:M:288:U:O4'	2.35	0.43
5:M:393:U:N1	5:M:394:U:C5	2.86	0.43
5:M:504:U:H2'	5:M:505:U:O4'	2.18	0.43
5:M:546:U:N3	5:M:547:U:C4	2.86	0.43
6:N:317:U:O2'	6:N:318:U:O4'	2.36	0.43
6:N:430:U:N3	6:N:431:U:C4	2.85	0.43
6:N:483:U:H2'	6:N:484:U:C6	2.53	0.43
1:I:28:A:C2	1:I:29:A:C8	3.06	0.43
1:I:51:A:H2'	1:I:52:A:O5'	2.18	0.43
1:I:56:A:C2	4:L:770:U:C2	3.06	0.43
1:I:81:A:N1	1:I:82:A:C5	2.87	0.43
1:I:200:A:C2'	1:I:201:A:H5'	2.47	0.43
1:I:202:A:C4	1:I:203:A:C8	3.06	0.43
1:I:227:A:N1	1:I:228:A:C5	2.86	0.43
1:I:236:A:C2	1:I:237:A:N7	2.85	0.43
1:I:253:A:C6	1:I:254:A:C5	3.06	0.43
1:I:287:A:H2'	1:I:288:A:H8	1.82	0.43
1:I:348:A:C2	1:I:349:A:C8	3.07	0.43
1:I:375:A:N3	1:I:376:A:N7	2.65	0.43
1:I:399:A:O2'	1:I:400:A:H5'	2.19	0.43
2:J:17:A:C2	2:J:18:A:C4	3.06	0.43
2:J:28:A:C2'	2:J:29:A:H5'	2.48	0.43
2:J:54:A:C2'	2:J:55:A:O5'	2.62	0.43
2:J:63:A:C5	2:J:64:A:N7	2.86	0.43
2:J:95:A:N1	2:J:96:A:C5	2.85	0.43
2:J:96:A:C4	2:J:97:A:N7	2.87	0.43
2:J:99:A:N1	2:J:100:A:C5	2.86	0.43
2:J:126:A:N1	2:J:127:A:C5	2.87	0.43
2:J:156:A:C2'	2:J:157:A:O5'	2.66	0.43
2:J:165:A:C6	2:J:166:A:C5	3.07	0.43
2:J:218:A:H2'	2:J:219:A:C8	2.50	0.43
2:J:225:A:O2'	2:J:226:A:P	2.64	0.43
2:J:226:A:N1	5:M:328:U:C4	2.86	0.43
2:J:252:A:C4	2:J:253:A:C8	3.06	0.43
3:K:79:A:C4	3:K:80:A:N7	2.86	0.43
3:K:81:A:HO2'	3:K:82:A:C4'	2.32	0.43
3:K:98:A:C6	3:K:99:A:N7	2.87	0.43
3:K:109:A:C6	3:K:110:A:C5	3.07	0.43
3:K:121:A:C2'	3:K:122:A:H5'	2.49	0.43
3:K:212:A:C5'	3:K:213:A:OP2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:450:U:C2'	4:L:451:U:C5'	2.96	0.43
4:L:529:U:H2'	4:L:530:U:H6	1.82	0.43
4:L:560:U:C2	4:L:561:U:C5	3.06	0.43
4:L:572:U:C2	4:L:573:U:C5	3.06	0.43
4:L:598:U:C4	4:L:599:U:C5	3.07	0.43
4:L:688:U:H2'	4:L:689:U:C5'	2.37	0.43
4:L:754:U:H2'	4:L:755:U:C4'	2.48	0.43
5:M:317:U:H2'	5:M:318:U:O5'	2.17	0.43
5:M:329:U:O2	5:M:330:U:C6	2.71	0.43
5:M:400:U:C2	5:M:401:U:C6	3.06	0.43
5:M:446:U:O2	5:M:447:U:C6	2.71	0.43
5:M:459:U:N3	5:M:460:U:C4	2.85	0.43
6:N:364:U:O2'	6:N:365:U:O5'	2.36	0.43
6:N:408:U:O2'	6:N:409:U:P	2.73	0.43
1:I:8:A:C6	1:I:9:A:C5	3.06	0.43
1:I:38:A:C2	1:I:39:A:C5	3.07	0.43
1:I:65:A:C2'	1:I:66:A:O4'	2.63	0.43
1:I:76:A:N1	1:I:77:A:C5	2.86	0.43
1:I:103:A:C2	1:I:104:A:N7	2.87	0.43
1:I:122:A:C4	1:I:123:A:C8	3.06	0.43
1:I:247:A:H2'	1:I:248:A:C8	2.52	0.43
1:I:313:A:C6	1:I:314:A:C5	3.07	0.43
1:I:352:A:C6	1:I:353:A:C5	3.06	0.43
1:I:406:A:C2'	1:I:407:A:H5'	2.49	0.43
2:J:8:A:N3	2:J:9:A:C8	2.87	0.43
2:J:44:A:C2	2:J:45:A:N9	2.87	0.43
2:J:128:A:N3	2:J:129:A:C8	2.86	0.43
2:J:263:A:C6	2:J:264:A:C5	3.07	0.43
3:K:46:A:C2	3:K:47:A:C4	3.06	0.43
3:K:80:A:O2'	3:K:81:A:O4'	2.37	0.43
3:K:96:A:C2'	3:K:97:A:O5'	2.53	0.43
3:K:230:A:H2'	3:K:231:A:C8	2.53	0.43
4:L:495:U:C2	4:L:496:U:C6	3.07	0.43
4:L:503:U:H2'	4:L:504:U:H6	1.82	0.43
4:L:507:U:H2'	4:L:508:U:C4'	2.48	0.43
4:L:589:U:N3	4:L:590:U:C4	2.86	0.43
4:L:589:U:H2'	4:L:590:U:C5'	2.49	0.43
4:L:724:U:O2'	4:L:725:U:C4'	2.66	0.43
4:L:734:U:N3	4:L:735:U:C5	2.86	0.43
4:L:754:U:O2	4:L:755:U:C6	2.71	0.43
4:L:797:U:H2'	4:L:798:U:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:432:U:O2	5:M:433:U:C6	2.72	0.43
5:M:514:U:C2	5:M:515:U:C5	3.06	0.43
5:M:537:U:C2	5:M:538:U:C5	3.05	0.43
1:I:1:A:C6	1:I:2:A:N6	2.87	0.43
1:I:88:A:C4	1:I:89:A:C8	3.05	0.43
1:I:208:A:H2'	1:I:209:A:H8	1.84	0.43
1:I:238:A:C6	1:I:239:A:C5	3.07	0.43
1:I:245:A:N1	1:I:246:A:C6	2.86	0.43
1:I:287:A:C4	1:I:288:A:C8	3.06	0.43
1:I:326:A:H2'	1:I:327:A:H8	1.84	0.43
1:I:359:A:C6	1:I:360:A:C6	3.06	0.43
3:K:6:A:C4	3:K:7:A:C8	3.06	0.43
3:K:105:A:N3	3:K:106:A:C4	2.86	0.43
3:K:121:A:N3	3:K:122:A:C8	2.87	0.43
3:K:146:A:N1	3:K:147:A:C6	2.87	0.43
3:K:164:A:H2'	3:K:165:A:C5'	2.48	0.43
3:K:191:A:C2'	3:K:192:A:O4'	2.67	0.43
4:L:593:U:C4	4:L:594:U:O4	2.71	0.43
4:L:670:U:C2'	4:L:671:U:C5'	2.96	0.43
4:L:674:U:C2	4:L:675:U:C6	3.07	0.43
4:L:728:U:O2	4:L:729:U:C4	2.65	0.43
4:L:766:U:H5"	4:L:767:U:P	2.58	0.43
4:L:789:U:H2'	4:L:790:U:H6	1.83	0.43
5:M:296:U:N3	5:M:297:U:C5	2.87	0.43
5:M:316:U:O2'	5:M:317:U:H5'	2.18	0.43
5:M:418:U:C2	5:M:419:U:C6	3.06	0.43
5:M:456:U:N3	5:M:457:U:C4	2.86	0.43
5:M:487:U:H2'	5:M:488:U:C6	2.47	0.43
6:N:274:U:H2'	6:N:275:U:O5'	2.18	0.43
6:N:379:U:H2'	6:N:380:U:C6	2.51	0.43
6:N:459:U:C2	6:N:460:U:C4	3.07	0.43
1:I:4:A:C2	1:I:5:A:N7	2.78	0.43
1:I:115:A:H2'	1:I:116:A:H8	1.83	0.43
1:I:232:A:N6	4:L:594:U:O4	2.52	0.43
1:I:238:A:C2	1:I:239:A:C5	3.07	0.43
1:I:252:A:N3	1:I:253:A:N9	2.66	0.43
1:I:314:A:N3	1:I:315:A:C8	2.87	0.43
1:I:337:A:H2'	1:I:338:A:O4'	2.19	0.43
1:I:359:A:C6	1:I:360:A:C5	3.06	0.43
1:I:366:A:H2'	1:I:367:A:C8	2.53	0.43
1:I:404:A:C5	1:I:405:A:N7	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:7:A:H2'	2:J:8:A:H8	1.84	0.43
2:J:33:A:C6	2:J:34:A:N7	2.87	0.43
2:J:46:A:N1	2:J:47:A:C5	2.86	0.43
2:J:48:A:C4	2:J:49:A:N7	2.85	0.43
2:J:96:A:C6	2:J:97:A:C5	3.06	0.43
2:J:101:A:N6	2:J:102:A:H61	2.03	0.43
2:J:152:A:H2'	2:J:153:A:C5'	2.49	0.43
2:J:174:A:C2	2:J:175:A:C5	3.07	0.43
2:J:179:A:H2'	2:J:180:A:O5'	2.19	0.43
2:J:184:A:C2	5:M:370:U:C2	3.07	0.43
2:J:203:A:C2	2:J:204:A:N7	2.87	0.43
2:J:206:A:H2'	2:J:207:A:H8	1.83	0.43
2:J:252:A:N3	2:J:253:A:C8	2.86	0.43
3:K:46:A:H2'	3:K:47:A:C8	2.54	0.43
3:K:70:A:C2	3:K:71:A:C4	3.06	0.43
3:K:98:A:H2'	3:K:99:A:C5'	2.48	0.43
3:K:102:A:C4	3:K:103:A:N7	2.87	0.43
3:K:108:A:N6	3:K:109:A:H62	2.16	0.43
3:K:128:A:C6	3:K:129:A:C5	3.06	0.43
3:K:157:A:N6	3:K:158:A:N6	2.67	0.43
4:L:486:U:O4	4:L:487:U:O4	2.36	0.43
4:L:547:U:C5	4:L:548:U:C5	3.07	0.43
4:L:550:U:H2'	4:L:551:U:C5'	2.37	0.43
4:L:609:U:H2'	4:L:610:U:H6	1.83	0.43
4:L:617:U:H2'	4:L:618:U:C6	2.51	0.43
4:L:661:U:C2	4:L:662:U:C5	3.07	0.43
4:L:699:U:C2'	4:L:700:U:C5'	2.96	0.43
4:L:737:U:C2'	4:L:738:U:O5'	2.58	0.43
4:L:763:U:O2'	4:L:764:U:C4'	2.66	0.43
4:L:770:U:O2'	4:L:771:U:H5'	2.19	0.43
4:L:806:U:O2'	4:L:807:U:C5'	2.52	0.43
5:M:290:U:C2'	5:M:291:U:O5'	2.66	0.43
5:M:367:U:N3	5:M:368:U:C4	2.86	0.43
5:M:367:U:C4	5:M:368:U:C5	3.06	0.43
5:M:421:U:C4	5:M:422:U:C4	3.07	0.43
5:M:427:U:H2'	5:M:428:U:H6	1.84	0.43
5:M:524:U:O4	5:M:525:U:O4	2.37	0.43
6:N:282:U:O2'	6:N:283:U:H5'	2.18	0.43
6:N:350:U:N3	6:N:351:U:C5	2.87	0.43
6:N:380:U:N3	6:N:381:U:C5	2.86	0.43
6:N:388:U:O2'	6:N:389:U:O5'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:415:U:C4	6:N:416:U:O4	2.71	0.43
6:N:434:U:N3	6:N:435:U:C4	2.87	0.43
6:N:458:U:O2	6:N:459:U:C5	2.71	0.43
6:N:462:U:H2'	6:N:463:U:O4'	2.18	0.43
6:N:486:U:C2	6:N:487:U:C6	3.07	0.43
1:I:11:A:C6	1:I:12:A:C5	3.07	0.43
1:I:15:A:O2'	1:I:16:A:C5'	2.44	0.43
1:I:33:A:H2'	1:I:34:A:O5'	2.19	0.43
1:I:100:A:C2	1:I:101:A:C4	3.06	0.43
1:I:127:A:C2'	1:I:128:A:O4'	2.63	0.43
1:I:135:A:N1	1:I:136:A:C4	2.87	0.43
1:I:143:A:N3	1:I:144:A:C8	2.86	0.43
1:I:192:A:C4	1:I:193:A:C8	3.07	0.43
1:I:203:A:N3	1:I:204:A:C8	2.87	0.43
1:I:211:A:N3	1:I:212:A:C8	2.87	0.43
1:I:246:A:C2	1:I:247:A:C5	3.07	0.43
1:I:255:A:N3	1:I:256:A:C8	2.87	0.43
1:I:340:A:N1	1:I:341:A:C5	2.85	0.43
1:I:364:A:C4	1:I:365:A:C8	3.07	0.43
1:I:398:A:H2'	1:I:399:A:H8	1.83	0.43
2:J:15:A:C2	2:J:16:A:N7	2.87	0.43
2:J:64:A:C6	2:J:65:A:C6	3.06	0.43
2:J:79:A:N1	2:J:80:A:C5	2.86	0.43
2:J:118:A:C2	5:M:436:U:O2	2.72	0.43
2:J:187:A:C4	2:J:188:A:C8	3.06	0.43
3:K:8:A:N6	3:K:9:A:N6	2.66	0.43
3:K:53:A:N3	3:K:54:A:C8	2.87	0.43
3:K:76:A:H2'	3:K:77:A:C5'	2.49	0.43
3:K:109:A:N1	3:K:110:A:C5	2.87	0.43
3:K:114:A:C4	3:K:115:A:C8	3.05	0.43
3:K:142:A:H2	3:K:143:A:C4	2.32	0.43
3:K:147:A:C4	3:K:148:A:N7	2.87	0.43
4:L:557:U:O2	4:L:558:U:C1'	2.66	0.43
4:L:571:U:C2	4:L:572:U:C4	3.07	0.43
4:L:585:U:O2	4:L:586:U:C6	2.72	0.43
4:L:618:U:C2'	4:L:619:U:O5'	2.66	0.43
4:L:626:U:N3	4:L:627:U:C4	2.87	0.43
4:L:749:U:N3	4:L:750:U:C5	2.87	0.43
4:L:750:U:N3	4:L:751:U:O4	2.52	0.43
4:L:810:U:C4	4:L:811:U:C5	3.06	0.43
5:M:297:U:C2	5:M:298:U:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:319:U:O2	5:M:320:U:C1'	2.67	0.43
5:M:387:U:N1	5:M:388:U:C5	2.82	0.43
5:M:515:U:N3	5:M:516:U:C5	2.86	0.43
6:N:356:U:C2	6:N:357:U:C5	3.07	0.43
6:N:370:U:C2	6:N:371:U:C6	3.07	0.43
6:N:421:U:C2'	6:N:422:U:H5'	2.49	0.43
6:N:462:U:O2'	6:N:463:U:C5'	2.39	0.43
6:N:526:U:O2'	6:N:527:U:O4'	2.36	0.43
1:I:9:A:C4	1:I:10:A:C8	3.07	0.43
1:I:39:A:C2	1:I:40:A:C8	3.07	0.43
1:I:55:A:C2	1:I:56:A:N7	2.85	0.43
1:I:57:A:C2	4:L:769:U:C2	3.07	0.43
1:I:128:A:H61	1:I:129:A:N6	2.14	0.43
1:I:129:A:C6	1:I:130:A:N7	2.86	0.43
1:I:134:A:C6	1:I:135:A:N7	2.85	0.43
1:I:136:A:O2'	1:I:137:A:C4'	2.58	0.43
1:I:156:A:C6	1:I:157:A:C5	3.06	0.43
1:I:334:A:N1	1:I:335:A:C5	2.86	0.43
1:I:349:A:C2'	1:I:350:A:H5'	2.48	0.43
1:I:409:A:H2'	1:I:410:A:H8	1.83	0.43
2:J:32:A:H2'	2:J:33:A:C8	2.53	0.43
2:J:36:A:C6	2:J:37:A:C5	3.07	0.43
2:J:63:A:C2'	2:J:64:A:O5'	2.66	0.43
2:J:75:A:C2'	2:J:76:A:O5'	2.66	0.43
2:J:98:A:C5	2:J:99:A:N7	2.87	0.43
2:J:103:A:C2	2:J:104:A:C5	3.07	0.43
2:J:145:A:N1	2:J:146:A:C6	2.67	0.43
2:J:203:A:C2'	2:J:204:A:C5'	2.97	0.43
2:J:234:A:H2'	2:J:235:A:H8	1.83	0.43
3:K:91:A:O2'	3:K:92:A:H5'	2.19	0.43
3:K:158:A:C2'	3:K:159:A:C5'	2.97	0.43
3:K:212:A:C6	3:K:213:A:C5	3.05	0.43
3:K:250:A:C4	3:K:251:A:C8	3.07	0.43
4:L:568:U:H2'	4:L:569:U:C6	2.53	0.43
4:L:612:U:O2	4:L:613:U:C6	2.72	0.43
4:L:629:U:C2	4:L:630:U:C6	3.07	0.43
4:L:709:U:O2'	4:L:710:U:C5'	2.57	0.43
4:L:717:U:H2'	4:L:718:U:C5	2.51	0.43
4:L:735:U:C2'	4:L:736:U:C5'	2.96	0.43
4:L:742:U:N3	4:L:743:U:O4	2.51	0.43
4:L:772:U:O2'	4:L:773:U:C5'	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:807:U:N3	4:L:808:U:C6	2.86	0.43
4:L:807:U:N3	4:L:808:U:C5	2.87	0.43
5:M:296:U:H2'	5:M:297:U:H6	1.84	0.43
5:M:371:U:C2	5:M:372:U:C5	3.06	0.43
5:M:475:U:H2'	5:M:476:U:H6	1.84	0.43
5:M:488:U:C5	5:M:489:U:H5	2.36	0.43
5:M:497:U:N3	5:M:498:U:C5	2.86	0.43
5:M:501:U:C2'	5:M:502:U:O4'	2.67	0.43
6:N:335:U:N3	6:N:336:U:C5	2.87	0.43
6:N:420:U:H2'	6:N:421:U:C5'	2.46	0.43
6:N:438:U:O2'	6:N:439:U:C5'	2.50	0.43
6:N:439:U:H2'	6:N:440:U:O4'	2.19	0.43
6:N:441:U:H2'	6:N:442:U:C5'	2.49	0.43
6:N:441:U:C4	6:N:442:U:C4	3.06	0.43
6:N:499:U:N3	6:N:500:U:C5	2.87	0.43
1:I:37:A:C2	1:I:38:A:C4	3.07	0.43
1:I:63:A:C2	4:L:763:U:C2	3.07	0.43
1:I:105:A:HO2'	1:I:106:A:H5'	1.84	0.43
1:I:130:A:N1	1:I:131:A:N7	2.67	0.43
1:I:165:A:H2'	1:I:166:A:H8	1.84	0.43
1:I:172:A:H2'	1:I:173:A:H8	1.84	0.43
1:I:181:A:H2'	1:I:182:A:H8	1.84	0.43
1:I:228:A:C2	1:I:229:A:C5	3.07	0.43
1:I:267:A:C2'	1:I:268:A:H8	2.29	0.43
1:I:282:A:C6	1:I:283:A:N6	2.87	0.43
1:I:284:A:C2	1:I:285:A:C1'	3.02	0.43
1:I:300:A:N1	1:I:301:A:C5	2.87	0.43
1:I:321:A:C2	1:I:322:A:C4	3.07	0.43
2:J:7:A:N6	2:J:8:A:N6	2.66	0.43
2:J:30:A:C2	2:J:31:A:C5	3.07	0.43
2:J:32:A:C2	2:J:33:A:C8	3.06	0.43
2:J:96:A:C2	2:J:97:A:C4	3.06	0.43
2:J:102:A:C2'	2:J:103:A:O4'	2.66	0.43
2:J:105:A:N6	2:J:106:A:H62	2.17	0.43
2:J:126:A:N6	2:J:127:A:N6	2.67	0.43
2:J:160:A:H2'	2:J:161:A:O5'	2.19	0.43
2:J:198:A:H2'	2:J:199:A:O5'	2.18	0.43
2:J:254:A:H2'	2:J:255:A:H8	1.84	0.43
2:J:256:A:C2	2:J:257:A:C5	3.07	0.43
2:J:260:A:C4	2:J:261:A:C8	3.07	0.43
3:K:31:A:C6	3:K:32:A:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:47:A:C6	3:K:48:A:C5	3.01	0.43
3:K:68:A:H2'	3:K:69:A:H8	1.83	0.43
3:K:108:A:H2'	3:K:109:A:C8	2.53	0.43
3:K:188:A:H2'	3:K:189:A:C8	2.52	0.43
3:K:191:A:C2	3:K:192:A:C4	3.06	0.43
4:L:413:U:O2'	4:L:414:U:H5'	2.18	0.43
4:L:442:U:C2	4:L:443:U:C5	3.06	0.43
4:L:505:U:N3	4:L:506:U:C4	2.86	0.43
4:L:545:U:O2	4:L:546:U:C1'	2.67	0.43
4:L:556:U:O2	4:L:557:U:N1	2.51	0.43
4:L:632:U:C2	4:L:633:U:C5	3.07	0.43
4:L:646:U:C2	4:L:647:U:C5	3.07	0.43
4:L:647:U:HO2'	4:L:648:U:C4'	2.32	0.43
4:L:734:U:H2'	4:L:735:U:C5'	2.46	0.43
5:M:290:U:C2'	5:M:291:U:O4'	2.65	0.43
5:M:344:U:H2'	5:M:345:U:H6	1.83	0.43
5:M:347:U:O2	5:M:348:U:N1	2.52	0.43
5:M:375:U:C2	5:M:376:U:C5	3.06	0.43
5:M:395:U:H2'	5:M:396:U:O4'	2.18	0.43
5:M:430:U:N1	5:M:431:U:C5	2.87	0.43
5:M:440:U:C2	5:M:441:U:C5	3.06	0.43
5:M:488:U:N1	5:M:489:U:C5	2.87	0.43
5:M:503:U:O2'	5:M:504:U:H5'	2.19	0.43
5:M:514:U:O2	5:M:515:U:C6	2.71	0.43
5:M:547:U:H2'	5:M:548:U:C6	2.54	0.43
6:N:283:U:H2'	6:N:284:U:H6	1.84	0.43
6:N:297:U:H2'	6:N:298:U:H6	1.84	0.43
6:N:392:U:O2	6:N:393:U:C6	2.71	0.43
6:N:397:U:C2	6:N:398:U:C5	3.07	0.43
6:N:406:U:C6	6:N:407:U:C5	3.07	0.43
6:N:449:U:HO2'	6:N:450:U:C4'	2.32	0.43
6:N:466:U:C2'	6:N:467:U:C5'	2.97	0.43
6:N:493:U:O2'	6:N:494:U:H5'	2.19	0.43
1:I:13:A:N3	1:I:14:A:N9	2.67	0.42
1:I:45:A:C2	4:L:781:U:C2	3.06	0.42
1:I:72:A:N3	1:I:73:A:C8	2.87	0.42
1:I:128:A:O5'	1:I:129:A:OP2	2.37	0.42
1:I:162:A:N7	1:I:163:A:N7	2.65	0.42
1:I:300:A:H2'	1:I:301:A:O5'	2.19	0.42
1:I:319:A:C6	1:I:320:A:N7	2.87	0.42
2:J:5:A:C5	2:J:6:A:N7	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:39:A:H2'	2:J:40:A:C8	2.53	0.42
2:J:57:A:C4	2:J:58:A:C8	3.06	0.42
2:J:101:A:N1	2:J:102:A:C5	2.86	0.42
2:J:106:A:N3	2:J:107:A:C8	2.87	0.42
2:J:108:A:C6	2:J:109:A:N7	2.87	0.42
2:J:187:A:N1	2:J:188:A:C5	2.87	0.42
2:J:192:A:C2	2:J:193:A:C5	3.07	0.42
2:J:267:A:C2	2:J:268:A:C8	3.06	0.42
3:K:80:A:C4	3:K:81:A:N7	2.87	0.42
3:K:87:A:N6	3:K:88:A:N6	2.67	0.42
3:K:129:A:N3	3:K:130:A:C8	2.87	0.42
4:L:462:U:O4	4:L:463:U:O4	2.35	0.42
4:L:483:U:H2'	4:L:484:U:C5'	2.48	0.42
4:L:486:U:C4	4:L:487:U:C5	3.07	0.42
4:L:496:U:C4	4:L:497:U:C5	3.07	0.42
4:L:580:U:C2'	4:L:581:U:C5'	2.97	0.42
4:L:642:U:C2	4:L:643:U:C5	3.07	0.42
4:L:672:U:C4	4:L:673:U:C5	3.07	0.42
4:L:705:U:C2	4:L:706:U:C5	3.05	0.42
4:L:711:U:C5'	4:L:712:U:P	3.05	0.42
4:L:814:U:O2'	4:L:815:U:C4'	2.67	0.42
5:M:296:U:H2'	5:M:297:U:C4'	2.49	0.42
5:M:317:U:O2	5:M:318:U:C6	2.72	0.42
5:M:385:U:H2'	5:M:386:U:C6	2.54	0.42
5:M:443:U:N3	5:M:444:U:C5	2.87	0.42
5:M:450:U:C2'	5:M:451:U:C6	2.84	0.42
5:M:547:U:N3	5:M:548:U:O4	2.51	0.42
6:N:292:U:N3	6:N:293:U:C4	2.87	0.42
6:N:304:U:H2'	6:N:305:U:C5	2.49	0.42
1:I:44:A:C2'	1:I:45:A:O5'	2.55	0.42
1:I:70:A:HO2'	1:I:71:A:C4'	2.31	0.42
1:I:71:A:C2	1:I:72:A:C4	3.07	0.42
1:I:119:A:N6	4:L:707:U:C4	2.87	0.42
1:I:158:A:C4	1:I:159:A:N7	2.88	0.42
1:I:189:A:N1	1:I:190:A:C5	2.88	0.42
1:I:195:A:N3	1:I:196:A:C8	2.87	0.42
1:I:229:A:O2'	1:I:230:A:C4'	2.65	0.42
1:I:256:A:H61	1:I:257:A:N6	2.13	0.42
1:I:284:A:O2'	1:I:285:A:C4'	2.62	0.42
1:I:316:A:H2'	1:I:317:A:H8	1.84	0.42
1:I:357:A:H2'	1:I:358:A:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:401:A:N6	1:I:402:A:H62	2.14	0.42
2:J:21:A:C2	2:J:22:A:C4	3.07	0.42
2:J:25:A:C4	2:J:26:A:N7	2.87	0.42
2:J:37:A:C2	2:J:38:A:C5	3.07	0.42
2:J:65:A:C6	2:J:66:A:N7	2.87	0.42
2:J:125:A:C6	2:J:126:A:C6	3.07	0.42
2:J:131:A:C6	2:J:132:A:C5	3.07	0.42
2:J:143:A:H2	2:J:144:A:C1'	2.27	0.42
2:J:163:A:H2'	2:J:164:A:C8	2.53	0.42
2:J:211:A:C2	2:J:212:A:N9	2.87	0.42
2:J:246:A:N3	2:J:247:A:C8	2.88	0.42
3:K:45:A:C3'	3:K:46:A:C5'	2.87	0.42
3:K:135:A:N1	3:K:136:A:C6	2.88	0.42
3:K:137:A:C2	6:N:395:U:C2	3.06	0.42
3:K:173:A:N3	3:K:174:A:C8	2.87	0.42
3:K:192:A:N1	3:K:193:A:C6	2.86	0.42
3:K:208:A:N6	3:K:209:A:H62	2.17	0.42
3:K:248:A:C2	3:K:249:A:C5	3.07	0.42
4:L:420:U:N3	4:L:421:U:O4	2.51	0.42
4:L:425:U:H2'	4:L:426:U:C5'	2.48	0.42
4:L:427:U:C2	4:L:428:U:C5	3.06	0.42
4:L:436:U:C2'	4:L:437:U:C6	2.77	0.42
4:L:466:U:O2	4:L:467:U:C6	2.72	0.42
4:L:501:U:H2'	4:L:502:U:H6	1.83	0.42
4:L:594:U:H2'	4:L:595:U:C5'	2.47	0.42
4:L:610:U:N3	4:L:611:U:C5	2.87	0.42
4:L:636:U:C2'	4:L:637:U:H5'	2.48	0.42
4:L:639:U:C4	4:L:640:U:C5	3.07	0.42
5:M:394:U:N3	5:M:395:U:C4	2.86	0.42
5:M:405:U:O2	5:M:406:U:O4'	2.37	0.42
5:M:473:U:C2'	5:M:474:U:O5'	2.66	0.42
5:M:476:U:H2'	5:M:477:U:O5'	2.19	0.42
5:M:485:U:N3	5:M:486:U:C5	2.87	0.42
5:M:489:U:N3	5:M:490:U:C4	2.87	0.42
5:M:503:U:N3	5:M:504:U:C4	2.87	0.42
6:N:290:U:H2'	6:N:291:U:C6	2.54	0.42
6:N:390:U:N3	6:N:391:U:C5	2.87	0.42
6:N:438:U:C2	6:N:439:U:C5	3.07	0.42
6:N:454:U:H2'	6:N:455:U:C4'	2.49	0.42
6:N:484:U:H2'	6:N:485:U:C5'	2.34	0.42
1:I:13:A:C5	1:I:14:A:C5	3.04	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:48:A:C2'	1:I:49:A:O4'	2.66	0.42
1:I:66:A:H61	1:I:67:A:N6	2.16	0.42
1:I:78:A:C5	1:I:79:A:N7	2.87	0.42
1:I:115:A:C2	1:I:116:A:N9	2.87	0.42
1:I:134:A:C4	1:I:135:A:C8	2.91	0.42
1:I:156:A:N1	1:I:157:A:C6	2.87	0.42
1:I:260:A:C5	1:I:261:A:N7	2.87	0.42
2:J:32:A:H2'	2:J:33:A:O4'	2.19	0.42
2:J:78:A:C4	2:J:79:A:C8	3.06	0.42
2:J:91:A:C2	2:J:92:A:C4	3.07	0.42
2:J:185:A:N1	2:J:186:A:C5	2.87	0.42
2:J:199:A:C2	2:J:200:A:C8	3.07	0.42
2:J:204:A:N6	2:J:205:A:H61	2.01	0.42
2:J:215:A:C2'	2:J:216:A:O5'	2.56	0.42
3:K:133:A:H2'	3:K:134:A:O5'	2.19	0.42
3:K:152:A:N1	3:K:153:A:C6	2.87	0.42
4:L:483:U:O2	4:L:484:U:C6	2.73	0.42
4:L:595:U:HO2'	4:L:596:U:C4'	2.32	0.42
4:L:609:U:C2	4:L:610:U:C5	3.07	0.42
5:M:291:U:C2'	5:M:292:U:C5'	2.97	0.42
5:M:315:U:H2'	5:M:316:U:O5'	2.18	0.42
5:M:365:U:O2	5:M:366:U:C6	2.73	0.42
5:M:407:U:C4	5:M:408:U:C5	3.07	0.42
5:M:434:U:H2'	5:M:435:U:O4'	2.19	0.42
5:M:460:U:N1	5:M:461:U:C6	2.85	0.42
5:M:465:U:N3	5:M:466:U:C4	2.87	0.42
5:M:538:U:C2'	5:M:539:U:H5'	2.48	0.42
6:N:406:U:C4	6:N:407:U:O4	2.71	0.42
6:N:420:U:HO2'	6:N:421:U:C5'	1.91	0.42
6:N:432:U:N3	6:N:433:U:C5	2.87	0.42
6:N:459:U:O2'	6:N:460:U:H5'	2.19	0.42
6:N:463:U:C2	6:N:464:U:C6	3.06	0.42
1:I:8:A:C6	1:I:9:A:C6	3.08	0.42
1:I:15:A:C2'	1:I:16:A:C4'	2.94	0.42
1:I:39:A:N3	1:I:40:A:C8	2.87	0.42
1:I:61:A:C2'	1:I:62:A:C5'	2.97	0.42
1:I:124:A:N6	1:I:125:A:N6	2.67	0.42
1:I:167:A:H2'	1:I:168:A:O5'	2.19	0.42
1:I:176:A:H2'	1:I:177:A:C8	2.54	0.42
1:I:221:A:C2	1:I:222:A:C4	3.07	0.42
1:I:251:A:C6	1:I:252:A:N6	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:316:A:C6	1:I:317:A:N7	2.87	0.42
1:I:329:A:N1	1:I:330:A:C5	2.87	0.42
2:J:57:A:C2	5:M:497:U:C2	3.08	0.42
2:J:62:A:N3	2:J:63:A:C8	2.87	0.42
2:J:67:A:C2	2:J:68:A:N9	2.87	0.42
2:J:76:A:C2	2:J:77:A:C5	3.07	0.42
2:J:89:A:N1	2:J:90:A:N6	2.66	0.42
2:J:92:A:N6	2:J:93:A:N6	2.65	0.42
3:K:13:A:H2'	3:K:14:A:C8	2.55	0.42
3:K:82:A:C2'	3:K:83:A:O5'	2.67	0.42
3:K:118:A:C2'	3:K:119:A:O4'	2.67	0.42
3:K:122:A:C4	3:K:123:A:C8	3.08	0.42
3:K:165:A:N3	3:K:166:A:C8	2.86	0.42
3:K:173:A:C2	3:K:174:A:N9	2.87	0.42
3:K:239:A:C2'	3:K:240:A:H5'	2.47	0.42
3:K:251:A:HO3'	3:K:252:A:P	2.32	0.42
4:L:540:U:H2'	4:L:541:U:O5'	2.20	0.42
4:L:557:U:O2	4:L:558:U:N1	2.52	0.42
4:L:587:U:N3	4:L:588:U:C5	2.87	0.42
4:L:591:U:O2	4:L:592:U:C6	2.72	0.42
4:L:595:U:C2	4:L:596:U:C5	3.07	0.42
4:L:600:U:N3	4:L:601:U:C5	2.87	0.42
4:L:646:U:O2	4:L:647:U:C6	2.73	0.42
4:L:680:U:H2'	4:L:681:U:H5	1.76	0.42
4:L:764:U:N1	4:L:765:U:C5	2.88	0.42
4:L:767:U:C2'	4:L:768:U:C5	2.91	0.42
4:L:811:U:O2	4:L:812:U:C6	2.67	0.42
5:M:293:U:N3	5:M:294:U:C5	2.88	0.42
5:M:296:U:C2'	5:M:297:U:O5'	2.62	0.42
5:M:318:U:C2'	5:M:319:U:C4'	2.96	0.42
5:M:455:U:C4	5:M:456:U:C4	3.07	0.42
5:M:477:U:H2'	5:M:478:U:H6	1.83	0.42
5:M:485:U:H2'	5:M:486:U:H6	1.84	0.42
6:N:316:U:C2	6:N:317:U:C6	3.08	0.42
6:N:365:U:O2	6:N:366:U:C5	2.73	0.42
6:N:395:U:C2'	6:N:396:U:O5'	2.68	0.42
1:I:40:A:C2	1:I:41:A:N7	2.88	0.42
1:I:59:A:C4	1:I:60:A:C8	3.07	0.42
1:I:80:A:N1	4:L:746:U:C4	2.87	0.42
1:I:120:A:C2	1:I:121:A:N7	2.87	0.42
1:I:143:A:O2'	1:I:144:A:P	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:164:A:C2'	1:I:165:A:C8	2.90	0.42
1:I:218:A:H2'	1:I:219:A:H8	1.85	0.42
1:I:223:A:C5	1:I:224:A:N7	2.87	0.42
1:I:311:A:N3	1:I:312:A:C8	2.88	0.42
1:I:324:A:C2'	1:I:325:A:C5'	2.98	0.42
2:J:45:A:C5	2:J:46:A:N7	2.88	0.42
2:J:54:A:C6	2:J:55:A:C5	3.07	0.42
2:J:66:A:N1	2:J:67:A:C5	2.87	0.42
2:J:80:A:C4	2:J:81:A:N7	2.87	0.42
2:J:89:A:C6	2:J:90:A:N6	2.87	0.42
2:J:145:A:C8	2:J:146:A:N7	2.88	0.42
2:J:148:A:C4	2:J:149:A:C8	3.07	0.42
2:J:160:A:C2	2:J:161:A:N9	2.87	0.42
2:J:198:A:HO2'	2:J:199:A:H5'	1.77	0.42
2:J:233:A:H2'	2:J:234:A:O5'	2.19	0.42
2:J:239:A:H3'	2:J:240:A:P	2.59	0.42
3:K:82:A:N1	3:K:83:A:C5	2.87	0.42
3:K:94:A:O2'	3:K:95:A:H5'	2.19	0.42
3:K:130:A:N1	3:K:131:A:C5	2.88	0.42
3:K:161:A:H2'	3:K:162:A:C5'	2.49	0.42
3:K:177:A:O2'	3:K:178:A:H5'	2.19	0.42
4:L:461:U:O2'	4:L:462:U:H5'	2.20	0.42
4:L:496:U:N3	4:L:497:U:C4	2.87	0.42
4:L:520:U:C2	4:L:521:U:C6	3.07	0.42
4:L:573:U:C4	4:L:574:U:C4	3.08	0.42
4:L:634:U:C2'	4:L:635:U:O4'	2.66	0.42
4:L:760:U:C4	4:L:761:U:C5	3.08	0.42
4:L:763:U:C2'	4:L:764:U:C4'	2.98	0.42
4:L:781:U:C4	4:L:782:U:C5	3.07	0.42
4:L:787:U:H2'	4:L:788:U:O5'	2.19	0.42
5:M:286:U:C2	5:M:287:U:C6	3.07	0.42
5:M:336:U:C2	5:M:337:U:C5	2.96	0.42
5:M:348:U:C5	5:M:349:U:H5	2.36	0.42
5:M:351:U:C2	5:M:352:U:H5	2.35	0.42
5:M:411:U:C2	5:M:412:U:C6	3.07	0.42
5:M:460:U:C2'	5:M:461:U:O4'	2.61	0.42
5:M:527:U:C4	5:M:528:U:C4	3.07	0.42
6:N:316:U:C2'	6:N:317:U:H5'	2.50	0.42
6:N:339:U:O2'	6:N:340:U:O4'	2.37	0.42
6:N:376:U:C2	6:N:377:U:C4	3.07	0.42
6:N:377:U:O2	6:N:378:U:O4'	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:482:U:N3	6:N:483:U:C4	2.87	0.42
6:N:482:U:H2'	6:N:483:U:C6	2.52	0.42
1:I:19:A:C4	1:I:20:A:N7	2.86	0.42
1:I:73:A:C2	1:I:74:A:N3	2.86	0.42
1:I:186:A:C4	1:I:187:A:N7	2.87	0.42
1:I:198:A:N1	1:I:199:A:C6	2.88	0.42
1:I:253:A:C4	1:I:254:A:C8	3.08	0.42
1:I:269:A:C2	4:L:557:U:N3	2.88	0.42
1:I:275:A:O2'	1:I:276:A:C5'	2.64	0.42
1:I:299:A:C2	1:I:300:A:C5	3.06	0.42
1:I:376:A:C6	1:I:377:A:N7	2.88	0.42
1:I:392:A:O2'	1:I:393:A:H5'	2.19	0.42
2:J:35:A:N1	2:J:36:A:C5	2.87	0.42
2:J:42:A:HO2'	2:J:43:A:C4'	2.21	0.42
2:J:70:A:N3	2:J:71:A:O4'	2.53	0.42
2:J:72:A:H2'	2:J:73:A:C4'	2.50	0.42
2:J:73:A:C2	2:J:74:A:N9	2.87	0.42
2:J:78:A:H2'	2:J:79:A:O5'	2.20	0.42
2:J:82:A:C2'	2:J:83:A:H5'	2.50	0.42
2:J:96:A:C6	2:J:97:A:N7	2.87	0.42
2:J:186:A:C2'	2:J:187:A:C5'	2.97	0.42
2:J:233:A:C2'	2:J:234:A:O5'	2.68	0.42
3:K:27:A:N6	3:K:28:A:N6	2.67	0.42
3:K:35:A:C6	3:K:36:A:C6	3.07	0.42
3:K:38:A:C2	3:K:39:A:N9	2.87	0.42
3:K:45:A:H2'	3:K:46:A:H8	1.83	0.42
3:K:64:A:C2'	3:K:65:A:O5'	2.68	0.42
3:K:110:A:N3	3:K:111:A:O4'	2.52	0.42
3:K:113:A:C4	3:K:114:A:C8	3.06	0.42
3:K:142:A:C2	3:K:143:A:N9	2.86	0.42
3:K:142:A:N3	3:K:143:A:N9	2.67	0.42
3:K:171:A:C2	3:K:172:A:N7	2.87	0.42
3:K:172:A:N3	3:K:173:A:C8	2.88	0.42
3:K:256:A:H2'	3:K:257:A:H8	1.85	0.42
4:L:435:U:C2	4:L:436:U:C6	3.07	0.42
4:L:443:U:H2'	4:L:444:U:C6	2.52	0.42
4:L:472:U:C2	4:L:473:U:H5	2.27	0.42
4:L:549:U:HO2'	4:L:550:U:C4'	2.32	0.42
4:L:692:U:O2'	4:L:693:U:C4'	2.64	0.42
4:L:708:U:O2	4:L:709:U:C6	2.73	0.42
4:L:713:U:C5	4:L:714:U:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:739:U:N3	4:L:740:U:C5	2.88	0.42
5:M:292:U:C2	5:M:293:U:C5	3.07	0.42
5:M:306:U:N3	5:M:307:U:C5	2.88	0.42
5:M:469:U:N3	5:M:470:U:O4	2.53	0.42
5:M:486:U:C2	5:M:487:U:C5	3.07	0.42
6:N:477:U:H2'	6:N:478:U:O5'	2.20	0.42
6:N:501:U:C2'	6:N:502:U:O4'	2.66	0.42
1:I:64:A:C6	1:I:65:A:C5	3.08	0.42
1:I:69:A:C6	1:I:70:A:N7	2.87	0.42
1:I:114:A:C6	1:I:115:A:N7	2.88	0.42
1:I:122:A:H2'	1:I:123:A:C8	2.55	0.42
1:I:133:A:N3	1:I:134:A:C8	2.87	0.42
1:I:134:A:C6	1:I:135:A:C5	3.04	0.42
1:I:178:A:C2	1:I:179:A:N9	2.87	0.42
1:I:187:A:N1	4:L:639:U:C2	2.87	0.42
1:I:257:A:C2	1:I:258:A:C5	3.07	0.42
1:I:283:A:N1	1:I:284:A:N6	2.67	0.42
2:J:39:A:N1	2:J:40:A:C5	2.88	0.42
2:J:55:A:H2'	2:J:56:A:H8	1.85	0.42
2:J:75:A:C2	2:J:76:A:C4	3.07	0.42
2:J:102:A:C2	2:J:103:A:C5	3.08	0.42
2:J:158:A:C4	2:J:159:A:C8	3.08	0.42
2:J:170:A:O2'	2:J:171:A:P	2.78	0.42
2:J:187:A:C2	2:J:188:A:N9	2.86	0.42
2:J:252:A:C2	2:J:253:A:C8	3.07	0.42
2:J:263:A:O2'	2:J:264:A:H5'	2.19	0.42
2:J:264:A:C4	2:J:265:A:N7	2.87	0.42
3:K:56:A:C2	3:K:57:A:C5	3.08	0.42
3:K:59:A:C2'	3:K:60:A:C5'	2.97	0.42
3:K:87:A:N6	3:K:88:A:H62	2.18	0.42
3:K:130:A:H2'	3:K:131:A:H8	1.85	0.42
3:K:139:A:H2'	3:K:140:A:O5'	2.18	0.42
3:K:164:A:N1	3:K:165:A:C5	2.87	0.42
3:K:217:A:C6	3:K:218:A:C6	3.08	0.42
3:K:239:A:N3	3:K:240:A:C8	2.88	0.42
4:L:485:U:C2	4:L:486:U:C6	3.08	0.42
4:L:525:U:C2'	4:L:526:U:O4'	2.67	0.42
4:L:576:U:C2	4:L:577:U:C5	3.05	0.42
4:L:599:U:O2'	4:L:600:U:H5'	2.20	0.42
4:L:611:U:O2'	4:L:612:U:C5'	2.62	0.42
4:L:768:U:C2	4:L:769:U:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:330:U:O2'	5:M:331:U:P	2.70	0.42
5:M:351:U:N3	5:M:352:U:C4	2.87	0.42
5:M:402:U:H2'	5:M:403:U:O5'	2.19	0.42
6:N:354:U:C2	6:N:355:U:C5	3.08	0.42
6:N:379:U:C4	6:N:380:U:C5	3.08	0.42
6:N:463:U:H2'	6:N:464:U:C5'	2.49	0.42
1:I:6:A:N3	1:I:7:A:C8	2.88	0.42
1:I:9:A:N1	1:I:10:A:C5	2.87	0.42
1:I:59:A:N1	1:I:60:A:C5	2.87	0.42
1:I:83:A:C6	1:I:84:A:C5	3.07	0.42
1:I:96:A:N3	1:I:97:A:C8	2.88	0.42
1:I:152:A:C6	1:I:153:A:C5	3.08	0.42
1:I:316:A:C4	1:I:317:A:C8	3.08	0.42
1:I:395:A:H2'	1:I:396:A:H8	1.84	0.42
2:J:5:A:C2	2:J:6:A:C8	3.07	0.42
2:J:21:A:C2'	2:J:22:A:O5'	2.68	0.42
2:J:89:A:O2'	2:J:90:A:C5'	2.67	0.42
2:J:137:A:C2	2:J:138:A:C8	3.08	0.42
2:J:187:A:C2	2:J:188:A:C5	3.08	0.42
3:K:14:A:H3'	3:K:15:A:P	2.59	0.42
3:K:47:A:N1	3:K:48:A:C6	2.86	0.42
3:K:85:A:C4	3:K:86:A:C8	3.08	0.42
3:K:134:A:H2'	3:K:135:A:H8	1.83	0.42
3:K:144:A:O2'	3:K:145:A:H5'	2.20	0.42
3:K:171:A:C2	3:K:172:A:C5	3.07	0.42
3:K:204:A:C4	3:K:205:A:C8	3.07	0.42
3:K:205:A:H2'	3:K:206:A:H8	1.81	0.42
3:K:253:A:N1	3:K:254:A:C5	2.87	0.42
4:L:451:U:N3	4:L:452:U:O4	2.52	0.42
4:L:500:U:N3	4:L:501:U:C5	2.88	0.42
4:L:501:U:C2'	4:L:502:U:C5'	2.94	0.42
4:L:503:U:O2	4:L:504:U:C6	2.73	0.42
4:L:506:U:H2'	4:L:507:U:C6	2.47	0.42
4:L:512:U:N3	4:L:513:U:C5	2.88	0.42
4:L:537:U:C2	4:L:538:U:C6	3.08	0.42
4:L:602:U:C4	4:L:603:U:C5	3.07	0.42
4:L:666:U:O4	4:L:667:U:O4	2.38	0.42
4:L:681:U:N3	4:L:682:U:C4	2.87	0.42
4:L:692:U:C2	4:L:693:U:C5	3.07	0.42
4:L:706:U:O4	4:L:707:U:C4	2.66	0.42
4:L:711:U:O2'	4:L:712:U:C5'	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:745:U:H2'	4:L:746:U:O5'	2.20	0.42
4:L:804:U:C2'	4:L:805:U:H6	2.09	0.42
5:M:323:U:C2'	5:M:324:U:O5'	2.27	0.42
5:M:343:U:H2'	5:M:344:U:C6	2.54	0.42
5:M:382:U:C2	5:M:383:U:C6	3.07	0.42
5:M:507:U:O2	5:M:508:U:C6	2.73	0.42
5:M:524:U:C4	5:M:525:U:C5	3.07	0.42
5:M:536:U:H2'	5:M:537:U:O4'	2.19	0.42
6:N:396:U:C2'	6:N:397:U:C5'	2.98	0.42
6:N:424:U:C2	6:N:425:U:C4	3.05	0.42
1:I:40:A:C2'	1:I:41:A:P	3.08	0.42
1:I:41:A:H2	1:I:42:A:C4	2.30	0.42
1:I:61:A:C5	1:I:62:A:N7	2.87	0.42
1:I:115:A:C2'	1:I:116:A:O5'	2.63	0.42
1:I:152:A:N1	1:I:153:A:C6	2.88	0.42
1:I:197:A:C2'	1:I:198:A:O5'	2.64	0.42
1:I:230:A:N1	1:I:231:A:C5	2.88	0.42
1:I:239:A:N1	1:I:240:A:C5	2.88	0.42
1:I:318:A:C2	1:I:319:A:C5	3.07	0.42
1:I:337:A:C2	1:I:338:A:C5	3.08	0.42
1:I:338:A:C6	1:I:339:A:N7	2.88	0.42
2:J:24:A:N1	2:J:25:A:C5	2.87	0.42
2:J:44:A:C2	2:J:45:A:C5	3.08	0.42
2:J:56:A:H2'	2:J:57:A:C4'	2.45	0.42
2:J:75:A:N3	2:J:76:A:C8	2.88	0.42
2:J:124:A:C2	2:J:125:A:N7	2.88	0.42
2:J:151:A:C5	2:J:152:A:N7	2.88	0.42
2:J:156:A:N3	2:J:157:A:C8	2.87	0.42
2:J:181:A:N1	2:J:182:A:C5	2.88	0.42
2:J:187:A:H2'	2:J:188:A:C5'	2.50	0.42
2:J:201:A:C6	2:J:202:A:C6	3.08	0.42
2:J:222:A:C5	2:J:223:A:N7	2.88	0.42
2:J:253:A:C2'	2:J:254:A:H5'	2.50	0.42
3:K:39:A:O2'	3:K:40:A:H5'	2.20	0.42
3:K:57:A:C2	3:K:58:A:C5	3.07	0.42
3:K:64:A:H2'	3:K:65:A:C5'	2.43	0.42
3:K:70:A:C6	3:K:71:A:C5	3.07	0.42
3:K:85:A:C2	3:K:86:A:N9	2.88	0.42
3:K:141:A:N1	3:K:142:A:C5	2.87	0.42
3:K:152:A:H61	3:K:153:A:H61	1.53	0.42
3:K:257:A:O2'	3:K:258:A:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:417:U:C2'	4:L:418:U:H5'	2.48	0.42
4:L:520:U:C2'	4:L:521:U:C5'	2.98	0.42
4:L:532:U:C4	4:L:533:U:C5	3.08	0.42
4:L:562:U:H2'	4:L:563:U:O5'	2.19	0.42
4:L:616:U:H2'	4:L:617:U:C6	2.52	0.42
4:L:622:U:C2'	4:L:623:U:O4'	2.68	0.42
4:L:704:U:C2	4:L:705:U:C5	3.08	0.42
4:L:718:U:H2'	4:L:719:U:C5'	2.44	0.42
4:L:721:U:C2'	4:L:722:U:O4'	2.67	0.42
4:L:742:U:N3	4:L:743:U:C4	2.88	0.42
4:L:765:U:N3	4:L:766:U:C6	2.88	0.42
4:L:811:U:C5	4:L:812:U:H5	2.36	0.42
4:L:817:U:C2	4:L:818:U:C5	3.07	0.42
4:L:819:U:H2'	4:L:820:U:H6	1.83	0.42
5:M:348:U:C5	5:M:349:U:C5	3.07	0.42
5:M:365:U:C2	5:M:366:U:C5	3.08	0.42
5:M:397:U:C4	5:M:398:U:C5	3.08	0.42
5:M:444:U:N3	5:M:445:U:C4	2.88	0.42
6:N:274:U:C2	6:N:275:U:C6	3.08	0.42
6:N:322:U:C2	6:N:323:U:C5	3.08	0.42
6:N:326:U:C4	6:N:327:U:C4	3.06	0.42
6:N:328:U:N3	6:N:329:U:C4	2.88	0.42
6:N:408:U:N3	6:N:409:U:C5	2.88	0.42
6:N:521:U:H2'	6:N:522:U:C6	2.54	0.42
1:I:73:A:N1	1:I:74:A:C6	2.88	0.42
1:I:80:A:C2	1:I:81:A:C5	3.08	0.42
1:I:156:A:C5	1:I:157:A:C5	3.08	0.42
1:I:177:A:N3	1:I:178:A:C8	2.87	0.42
1:I:195:A:H2'	1:I:196:A:O5'	2.20	0.42
1:I:320:A:C4	1:I:321:A:C8	3.07	0.42
1:I:357:A:N3	1:I:358:A:C8	2.88	0.42
2:J:16:A:C2'	2:J:17:A:C5'	2.98	0.42
2:J:126:A:C2'	2:J:127:A:C5'	2.98	0.42
2:J:131:A:C4	2:J:132:A:C8	3.08	0.42
2:J:159:A:C2	2:J:160:A:C5	3.08	0.42
2:J:173:A:C2'	2:J:174:A:O4'	2.68	0.42
2:J:173:A:O2'	2:J:174:A:O4'	2.34	0.42
2:J:201:A:H61	2:J:202:A:N6	2.13	0.42
3:K:85:A:C2	3:K:86:A:C4	3.08	0.42
3:K:141:A:C2	3:K:142:A:N7	2.87	0.42
3:K:151:A:C2'	3:K:152:A:O5'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:175:A:N6	3:K:176:A:N6	2.68	0.42
3:K:208:A:H2'	3:K:209:A:C8	2.54	0.42
4:L:480:U:C2	4:L:481:U:C5	3.08	0.42
4:L:541:U:H2'	4:L:542:U:O4'	2.20	0.42
4:L:554:U:C2'	4:L:555:U:C6	3.00	0.42
4:L:561:U:H2'	4:L:562:U:H6	1.85	0.42
4:L:563:U:C4	4:L:564:U:O4	2.73	0.42
4:L:602:U:O2	4:L:603:U:C6	2.73	0.42
4:L:698:U:C2	4:L:699:U:C6	3.08	0.42
4:L:703:U:O4	4:L:704:U:O4	2.38	0.42
4:L:712:U:O2	4:L:713:U:H1'	2.19	0.42
4:L:766:U:O5'	4:L:767:U:OP2	2.38	0.42
4:L:804:U:O2'	4:L:805:U:C5'	2.64	0.42
5:M:315:U:N3	5:M:316:U:C5	2.88	0.42
5:M:361:U:O2'	5:M:362:U:O5'	2.38	0.42
5:M:377:U:O2'	5:M:378:U:C5'	2.56	0.42
5:M:405:U:O2	5:M:406:U:H1'	2.16	0.42
5:M:442:U:C2'	5:M:443:U:H5'	2.49	0.42
6:N:389:U:C2	6:N:390:U:C6	3.08	0.42
6:N:459:U:O2'	6:N:460:U:C5'	2.68	0.42
1:I:27:A:C4	1:I:28:A:C8	3.08	0.41
1:I:32:A:N3	1:I:33:A:C8	2.88	0.41
1:I:52:A:H2'	1:I:53:A:H8	1.85	0.41
1:I:70:A:C6	1:I:71:A:C5	3.08	0.41
1:I:233:A:N3	1:I:234:A:C8	2.87	0.41
1:I:276:A:C4	1:I:277:A:N7	2.87	0.41
1:I:308:A:C2	1:I:309:A:C5	3.08	0.41
1:I:372:A:O2'	1:I:373:A:C5'	2.34	0.41
2:J:8:A:O2'	2:J:9:A:O4'	2.38	0.41
2:J:156:A:C4	2:J:157:A:C8	3.08	0.41
3:K:6:A:H2'	3:K:7:A:O4'	2.20	0.41
3:K:42:A:C2	3:K:43:A:C4	3.08	0.41
3:K:46:A:C2'	3:K:47:A:C4'	2.96	0.41
3:K:60:A:H2'	3:K:61:A:H8	1.85	0.41
3:K:85:A:C2	3:K:86:A:C8	3.08	0.41
3:K:105:A:O2'	3:K:106:A:C4'	2.68	0.41
3:K:123:A:H2'	3:K:124:A:H8	1.85	0.41
3:K:128:A:C2	3:K:129:A:C5	3.08	0.41
3:K:150:A:O2'	3:K:151:A:C5'	2.68	0.41
3:K:165:A:C2	3:K:166:A:C8	3.08	0.41
3:K:240:A:O2'	3:K:241:A:H5'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:546:U:C2'	4:L:547:U:C6	2.80	0.41
4:L:794:U:H2'	4:L:795:U:H6	1.83	0.41
5:M:277:U:H2'	5:M:278:U:H6	1.85	0.41
5:M:320:U:C2'	5:M:321:U:C5'	2.98	0.41
5:M:335:U:N1	5:M:336:U:C6	2.86	0.41
5:M:399:U:C2	5:M:400:U:C5	3.08	0.41
5:M:550:U:C2	5:M:551:U:C5	3.07	0.41
6:N:310:U:C2'	6:N:311:U:H5'	2.49	0.41
6:N:425:U:O4	6:N:426:U:O4	2.37	0.41
6:N:432:U:H2'	6:N:433:U:H6	1.84	0.41
6:N:454:U:C2'	6:N:455:U:C4'	2.98	0.41
6:N:468:U:O4	6:N:469:U:O4	2.38	0.41
6:N:474:U:C2'	6:N:475:U:O5'	2.62	0.41
1:I:44:A:C2'	1:I:45:A:C5'	2.98	0.41
1:I:76:A:C2'	1:I:77:A:C5'	2.98	0.41
1:I:125:A:H2'	1:I:126:A:H8	1.83	0.41
1:I:139:A:C4	1:I:140:A:C8	3.09	0.41
1:I:173:A:N1	1:I:174:A:C5	2.88	0.41
1:I:213:A:N3	1:I:214:A:C8	2.88	0.41
1:I:281:A:C4	1:I:282:A:C8	3.08	0.41
1:I:318:A:C2	1:I:319:A:C8	3.08	0.41
1:I:320:A:C2	1:I:321:A:C4	3.08	0.41
1:I:359:A:C4	1:I:360:A:N7	2.88	0.41
1:I:363:A:C4	1:I:364:A:N7	2.88	0.41
2:J:5:A:C6	2:J:6:A:C5	3.08	0.41
2:J:50:A:C2'	2:J:51:A:H5'	2.46	0.41
2:J:72:A:N3	2:J:73:A:N9	2.67	0.41
2:J:94:A:O2'	2:J:95:A:C4'	2.62	0.41
2:J:185:A:N6	2:J:186:A:N6	2.68	0.41
2:J:220:A:C4	2:J:221:A:N7	2.88	0.41
3:K:28:A:H2'	3:K:29:A:H8	1.84	0.41
3:K:80:A:N1	3:K:81:A:C5	2.89	0.41
3:K:89:A:C2'	3:K:90:A:O5'	2.59	0.41
3:K:110:A:C2	3:K:111:A:H1'	2.54	0.41
3:K:161:A:H2'	3:K:162:A:O5'	2.19	0.41
3:K:162:A:C2	3:K:163:A:C5	3.08	0.41
3:K:165:A:C5	3:K:166:A:C8	3.08	0.41
3:K:170:A:H2'	3:K:171:A:O5'	2.19	0.41
3:K:186:A:O2'	3:K:187:A:H5'	2.20	0.41
3:K:259:A:HO3'	3:K:260:A:P	2.33	0.41
4:L:413:U:C2	4:L:414:U:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:691:U:H2'	4:L:692:U:O5'	2.19	0.41
4:L:699:U:H2'	4:L:700:U:C6	2.55	0.41
4:L:714:U:H2'	4:L:715:U:O4'	2.19	0.41
4:L:731:U:C2'	4:L:732:U:C5'	2.97	0.41
4:L:742:U:O2	4:L:743:U:C4	2.66	0.41
4:L:749:U:H2'	4:L:750:U:C5'	2.45	0.41
4:L:755:U:H2'	4:L:756:U:O4'	2.20	0.41
4:L:797:U:O2	4:L:798:U:C6	2.73	0.41
4:L:802:U:C2	4:L:803:U:C5	3.09	0.41
4:L:804:U:N3	4:L:805:U:C4	2.88	0.41
5:M:331:U:O2	5:M:332:U:C6	2.73	0.41
5:M:363:U:O2'	5:M:364:U:H5'	2.20	0.41
5:M:395:U:H2'	5:M:396:U:C6	2.48	0.41
5:M:441:U:C2'	5:M:442:U:C5'	2.98	0.41
5:M:484:U:C4	5:M:485:U:O4	2.73	0.41
5:M:496:U:H2'	5:M:497:U:H6	1.85	0.41
5:M:510:U:H2'	5:M:511:U:C1'	2.48	0.41
5:M:538:U:O4	5:M:539:U:O4	2.39	0.41
6:N:296:U:C4	6:N:297:U:C4	3.05	0.41
6:N:391:U:C2	6:N:392:U:C6	3.08	0.41
6:N:435:U:C2'	6:N:436:U:O5'	2.68	0.41
6:N:445:U:O2'	6:N:446:U:P	2.75	0.41
1:I:9:A:C2	1:I:10:A:N9	2.89	0.41
1:I:21:A:N1	1:I:22:A:C5	2.88	0.41
1:I:45:A:C4	1:I:46:A:C8	3.08	0.41
1:I:172:A:C2	1:I:173:A:C5	3.08	0.41
1:I:211:A:C2'	1:I:212:A:H5'	2.47	0.41
1:I:221:A:H2'	1:I:222:A:H8	1.84	0.41
1:I:228:A:N1	1:I:229:A:C5	2.88	0.41
1:I:232:A:C2	1:I:233:A:C8	3.08	0.41
1:I:250:A:C2'	1:I:251:A:C5'	2.98	0.41
1:I:260:A:C6	1:I:261:A:C5	3.08	0.41
1:I:325:A:H2'	1:I:326:A:H8	1.85	0.41
1:I:342:A:N3	1:I:343:A:C8	2.88	0.41
1:I:399:A:H2'	1:I:400:A:C8	2.55	0.41
2:J:70:A:O2'	2:J:71:A:C4'	2.62	0.41
2:J:135:A:N1	2:J:136:A:C6	2.89	0.41
2:J:230:A:C2	2:J:231:A:C5	3.08	0.41
2:J:247:A:H2'	2:J:248:A:C8	2.48	0.41
3:K:71:A:C2'	3:K:72:A:O5'	2.69	0.41
3:K:136:A:C2	3:K:137:A:C1'	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:144:A:H2'	3:K:145:A:O4'	2.20	0.41
3:K:230:A:H2'	3:K:231:A:H8	1.85	0.41
4:L:494:U:C2	4:L:495:U:C6	3.08	0.41
4:L:518:U:H2'	4:L:519:U:H6	1.85	0.41
4:L:533:U:H2'	4:L:534:U:C6	2.50	0.41
4:L:569:U:C2'	4:L:570:U:O5'	2.68	0.41
4:L:595:U:O2'	4:L:596:U:C4'	2.67	0.41
4:L:667:U:O2'	4:L:668:U:C5'	2.55	0.41
4:L:692:U:HO2'	4:L:693:U:C5'	2.23	0.41
4:L:742:U:H2'	4:L:743:U:H6	1.79	0.41
4:L:770:U:H2'	4:L:771:U:C6	2.49	0.41
4:L:782:U:C2'	4:L:783:U:O5'	2.68	0.41
4:L:786:U:O2'	4:L:787:U:H5'	2.20	0.41
4:L:802:U:H2'	4:L:803:U:C5'	2.49	0.41
4:L:805:U:N3	4:L:806:U:C4	2.89	0.41
4:L:811:U:HO2'	4:L:812:U:C4'	2.27	0.41
5:M:387:U:O2'	5:M:388:U:O5'	2.37	0.41
5:M:504:U:O2	5:M:505:U:C6	2.73	0.41
6:N:359:U:C2	6:N:360:U:C6	3.07	0.41
6:N:409:U:C2	6:N:410:U:H5	2.30	0.41
6:N:424:U:C4	6:N:425:U:C5	3.08	0.41
6:N:518:U:H2'	6:N:519:U:C6	2.55	0.41
6:N:526:U:C2'	6:N:527:U:C4'	2.98	0.41
1:I:7:A:O2'	1:I:8:A:H5'	2.20	0.41
1:I:20:A:O2'	1:I:21:A:O4'	2.37	0.41
1:I:24:A:C4	1:I:25:A:C8	3.09	0.41
1:I:67:A:C4	1:I:68:A:C5	3.05	0.41
1:I:93:A:H2'	1:I:94:A:H8	1.85	0.41
1:I:128:A:H2'	1:I:129:A:C8	2.55	0.41
1:I:137:A:H2'	1:I:138:A:O4'	2.20	0.41
1:I:226:A:C2'	1:I:227:A:C5'	2.98	0.41
1:I:227:A:C2	1:I:228:A:N9	2.88	0.41
1:I:249:A:N1	1:I:250:A:C4	2.87	0.41
1:I:292:A:N1	1:I:293:A:C5	2.88	0.41
1:I:340:A:C4	1:I:341:A:N7	2.88	0.41
2:J:8:A:H2'	2:J:9:A:C8	2.52	0.41
2:J:68:A:H2'	2:J:69:A:C8	2.56	0.41
2:J:81:A:C2	2:J:82:A:C4	3.08	0.41
2:J:193:A:C6	2:J:194:A:N7	2.89	0.41
2:J:201:A:C2'	2:J:202:A:H5'	2.50	0.41
2:J:202:A:H2	2:J:203:A:C4	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:204:A:N3	2:J:205:A:C8	2.87	0.41
2:J:215:A:N1	2:J:216:A:N7	2.67	0.41
2:J:226:A:N1	5:M:328:U:N3	2.68	0.41
3:K:73:A:C4	3:K:74:A:C8	3.08	0.41
3:K:83:A:N1	3:K:84:A:C5	2.89	0.41
3:K:105:A:N3	3:K:106:A:C5	2.87	0.41
3:K:145:A:C6	3:K:146:A:N6	2.88	0.41
4:L:484:U:H2'	4:L:485:U:C6	2.53	0.41
4:L:484:U:C4	4:L:485:U:C5	3.09	0.41
4:L:516:U:C2'	4:L:517:U:O4'	2.57	0.41
4:L:544:U:C6	4:L:545:U:C5	3.09	0.41
4:L:660:U:HO2'	4:L:661:U:C4'	2.29	0.41
4:L:725:U:O2'	4:L:726:U:H5'	2.20	0.41
4:L:765:U:O2'	4:L:766:U:C4'	2.68	0.41
5:M:304:U:C2	5:M:305:U:H5	2.31	0.41
6:N:312:U:C2	6:N:313:U:C5	3.09	0.41
6:N:364:U:N3	6:N:365:U:C5	2.89	0.41
6:N:379:U:C2'	6:N:380:U:C4'	2.90	0.41
6:N:443:U:O2'	6:N:444:U:H5'	2.21	0.41
1:I:16:A:C2'	1:I:17:A:H5'	2.51	0.41
1:I:23:A:C2'	1:I:24:A:H5'	2.50	0.41
1:I:43:A:C5	1:I:44:A:N7	2.88	0.41
1:I:57:A:H2'	1:I:58:A:O4'	2.21	0.41
1:I:100:A:C4	1:I:101:A:C8	3.09	0.41
1:I:131:A:O5'	1:I:132:A:OP2	2.38	0.41
1:I:135:A:C5	1:I:136:A:N7	2.87	0.41
1:I:147:A:H2'	1:I:148:A:O5'	2.21	0.41
1:I:170:A:C2	1:I:171:A:C8	3.08	0.41
1:I:226:A:C5	1:I:227:A:N7	2.88	0.41
1:I:233:A:C5	1:I:234:A:N7	2.89	0.41
1:I:234:A:N1	1:I:235:A:C5	2.88	0.41
1:I:286:A:C2'	1:I:287:A:H8	2.33	0.41
1:I:336:A:H2'	1:I:337:A:O4'	2.19	0.41
2:J:15:A:N1	2:J:16:A:C5	2.89	0.41
2:J:18:A:C2	2:J:19:A:C5	3.08	0.41
2:J:91:A:C2'	2:J:92:A:C5'	2.98	0.41
2:J:93:A:C6	2:J:94:A:N7	2.89	0.41
2:J:97:A:H2	2:J:98:A:C4	2.35	0.41
2:J:99:A:C6	2:J:100:A:C6	3.08	0.41
2:J:102:A:N1	2:J:103:A:C6	2.89	0.41
2:J:106:A:H2'	2:J:107:A:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:109:A:N3	2:J:110:A:C8	2.88	0.41
2:J:129:A:C5	2:J:130:A:C8	3.08	0.41
2:J:174:A:C4	2:J:175:A:N7	2.89	0.41
2:J:207:A:C4	2:J:208:A:N7	2.88	0.41
2:J:236:A:N6	2:J:237:A:H62	2.17	0.41
3:K:6:A:C2'	3:K:7:A:H5'	2.50	0.41
3:K:56:A:C2'	3:K:57:A:C5'	2.99	0.41
3:K:166:A:C2	3:K:167:A:C1'	3.03	0.41
3:K:212:A:C5	3:K:213:A:N6	2.86	0.41
4:L:504:U:N3	4:L:505:U:C5	2.89	0.41
4:L:520:U:H2'	4:L:521:U:C5'	2.51	0.41
4:L:631:U:H2'	4:L:632:U:O5'	2.21	0.41
4:L:757:U:O2	4:L:758:U:C6	2.72	0.41
5:M:296:U:H2'	5:M:297:U:O5'	2.20	0.41
5:M:344:U:N3	5:M:345:U:C5	2.89	0.41
5:M:368:U:N3	5:M:369:U:C5	2.89	0.41
5:M:405:U:O2	5:M:406:U:N1	2.54	0.41
5:M:406:U:O2'	5:M:407:U:O4'	2.39	0.41
5:M:433:U:C5	5:M:434:U:C5	3.08	0.41
5:M:445:U:N3	5:M:446:U:C5	2.89	0.41
5:M:458:U:O2	5:M:459:U:C6	2.73	0.41
5:M:465:U:H2'	5:M:466:U:H6	1.85	0.41
5:M:547:U:O2'	5:M:548:U:P	2.78	0.41
6:N:373:U:C2	6:N:374:U:C5	3.08	0.41
6:N:392:U:C2	6:N:393:U:C6	3.06	0.41
6:N:397:U:C2	6:N:398:U:C6	3.08	0.41
6:N:487:U:C6	6:N:488:U:H5	2.38	0.41
6:N:526:U:H2'	6:N:527:U:C5'	2.48	0.41
1:I:5:A:H2'	1:I:6:A:C8	2.53	0.41
1:I:17:A:H2	1:I:18:A:N9	2.12	0.41
1:I:27:A:C2	1:I:28:A:C4	3.08	0.41
1:I:75:A:N3	1:I:76:A:N9	2.66	0.41
1:I:106:A:C2'	1:I:107:A:H8	2.22	0.41
1:I:127:A:C2'	1:I:128:A:O5'	2.68	0.41
1:I:185:A:C2'	1:I:186:A:C5'	2.99	0.41
1:I:202:A:HO2'	1:I:203:A:C5'	1.99	0.41
1:I:202:A:N3	1:I:203:A:N9	2.69	0.41
1:I:233:A:C6	1:I:234:A:N7	2.89	0.41
1:I:268:A:H2	1:I:269:A:H1'	1.84	0.41
1:I:347:A:C2	1:I:348:A:C5	3.09	0.41
1:I:347:A:C2	1:I:348:A:N9	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:350:A:N6	4:L:476:U:O4	2.54	0.41
1:I:387:A:H2'	1:I:388:A:C8	2.55	0.41
1:I:397:A:H2'	1:I:398:A:C8	2.55	0.41
2:J:10:A:H2'	2:J:11:A:H8	1.86	0.41
2:J:50:A:C2'	2:J:51:A:C5'	2.98	0.41
2:J:52:A:H2'	2:J:53:A:H8	1.86	0.41
2:J:53:A:C2	2:J:54:A:C5	3.08	0.41
2:J:104:A:C2	2:J:105:A:N9	2.89	0.41
2:J:165:A:C5	2:J:166:A:N7	2.87	0.41
2:J:187:A:N6	5:M:367:U:O4	2.54	0.41
3:K:96:A:H2'	3:K:97:A:C4'	2.45	0.41
3:K:150:A:C2	3:K:151:A:C4	3.09	0.41
3:K:235:A:C2'	3:K:236:A:H5'	2.50	0.41
4:L:652:U:C2	4:L:653:U:C6	3.08	0.41
4:L:669:U:C2'	4:L:670:U:O5'	2.68	0.41
4:L:798:U:H2'	4:L:799:U:C6	2.50	0.41
5:M:347:U:O2'	5:M:348:U:O4'	2.38	0.41
5:M:358:U:N3	5:M:359:U:C5	2.88	0.41
5:M:361:U:N3	5:M:362:U:C5	2.88	0.41
5:M:466:U:C5	5:M:467:U:C5	3.08	0.41
5:M:543:U:C2	5:M:544:U:C5	3.09	0.41
6:N:274:U:H2'	6:N:275:U:C6	2.47	0.41
6:N:400:U:N3	6:N:401:U:C5	2.88	0.41
6:N:438:U:H2'	6:N:439:U:O5'	2.20	0.41
6:N:473:U:C2'	6:N:474:U:H5'	2.50	0.41
6:N:474:U:N3	6:N:475:U:C5	2.88	0.41
6:N:480:U:C2'	6:N:481:U:C5'	2.98	0.41
6:N:487:U:N3	6:N:488:U:C5	2.88	0.41
1:I:19:A:N1	1:I:20:A:C5	2.89	0.41
1:I:33:A:H2'	1:I:34:A:H8	1.85	0.41
1:I:50:A:C6	1:I:51:A:C5	3.08	0.41
1:I:59:A:H2'	1:I:60:A:H8	1.86	0.41
1:I:72:A:C5	1:I:73:A:C8	3.08	0.41
1:I:108:A:C4	1:I:109:A:N7	2.89	0.41
1:I:132:A:O2'	1:I:133:A:O4'	2.36	0.41
1:I:208:A:C4	1:I:209:A:C8	3.08	0.41
1:I:213:A:N1	1:I:214:A:C5	2.89	0.41
1:I:256:A:N1	1:I:257:A:C5	2.89	0.41
1:I:266:A:H2'	1:I:267:A:O4'	2.15	0.41
1:I:300:A:H2'	1:I:301:A:H8	1.86	0.41
2:J:59:A:N3	2:J:60:A:C8	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:70:A:N1	2:J:71:A:C5	2.88	0.41
2:J:71:A:H61	2:J:72:A:N6	2.11	0.41
2:J:95:A:C2	2:J:96:A:C4	3.08	0.41
2:J:96:A:C2	2:J:97:A:C8	3.08	0.41
2:J:185:A:C4	2:J:186:A:N7	2.88	0.41
2:J:267:A:O2'	2:J:268:A:H5'	2.20	0.41
3:K:70:A:C2'	3:K:71:A:H5'	2.51	0.41
3:K:78:A:H2'	3:K:79:A:C5'	2.51	0.41
3:K:78:A:H2'	3:K:79:A:O4'	2.21	0.41
3:K:91:A:N6	3:K:92:A:H62	2.18	0.41
3:K:125:A:C2	3:K:126:A:C5	3.08	0.41
3:K:148:A:H2'	3:K:149:A:C8	2.53	0.41
3:K:155:A:N7	3:K:156:A:N7	2.65	0.41
3:K:160:A:H2'	3:K:161:A:C5'	2.51	0.41
3:K:167:A:N3	3:K:168:A:C8	2.88	0.41
4:L:492:U:O2'	4:L:493:U:H5'	2.20	0.41
4:L:505:U:H2'	4:L:506:U:H6	1.84	0.41
4:L:554:U:N3	4:L:555:U:C5	2.84	0.41
4:L:562:U:H2'	4:L:563:U:C6	2.52	0.41
4:L:618:U:C2	4:L:619:U:C5	3.08	0.41
4:L:676:U:H3'	4:L:677:U:OP2	2.21	0.41
4:L:710:U:H2'	4:L:711:U:H6	1.85	0.41
4:L:720:U:C4	4:L:721:U:C5	3.09	0.41
5:M:339:U:O2'	5:M:340:U:H5'	2.20	0.41
5:M:349:U:H2'	5:M:350:U:C4'	2.49	0.41
5:M:386:U:N3	5:M:387:U:C4	2.89	0.41
5:M:386:U:C2'	5:M:387:U:H6	2.23	0.41
5:M:420:U:H2'	5:M:421:U:O5'	2.20	0.41
5:M:442:U:H2'	5:M:443:U:C6	2.53	0.41
5:M:448:U:H2'	5:M:449:U:O4'	2.20	0.41
5:M:477:U:C2	5:M:478:U:C6	3.08	0.41
5:M:499:U:H2'	5:M:500:U:O5'	2.20	0.41
5:M:529:U:N3	5:M:530:U:C5	2.88	0.41
5:M:532:U:N3	5:M:533:U:C5	2.89	0.41
6:N:302:U:O2'	6:N:303:U:C5'	2.62	0.41
6:N:320:U:C2'	6:N:321:U:O5'	2.69	0.41
6:N:403:U:N3	6:N:404:U:C5	2.89	0.41
6:N:415:U:N3	6:N:416:U:C4	2.89	0.41
6:N:425:U:C5	6:N:426:U:H5	2.37	0.41
6:N:506:U:H2'	6:N:507:U:C6	2.55	0.41
1:I:9:A:N6	4:L:817:U:O4	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:22:A:C2	1:I:23:A:C5	3.08	0.41
1:I:52:A:C2	1:I:53:A:C8	3.09	0.41
1:I:67:A:C2'	1:I:68:A:H5'	2.41	0.41
1:I:69:A:H2'	1:I:70:A:H8	1.86	0.41
1:I:121:A:H2'	1:I:122:A:C8	2.55	0.41
1:I:193:A:C2	1:I:194:A:C5	3.09	0.41
1:I:197:A:C4	1:I:198:A:C8	3.09	0.41
1:I:276:A:H2'	1:I:277:A:O4'	2.20	0.41
1:I:286:A:N1	1:I:287:A:C6	2.87	0.41
1:I:312:A:H2'	1:I:313:A:C8	2.55	0.41
1:I:314:A:C2	1:I:315:A:C5	3.08	0.41
1:I:315:A:C2'	1:I:316:A:O5'	2.66	0.41
1:I:341:A:C2	1:I:342:A:C5	3.09	0.41
1:I:348:A:C2'	1:I:349:A:O5'	2.65	0.41
2:J:16:A:C2	2:J:17:A:C8	3.08	0.41
2:J:46:A:C2	2:J:47:A:N7	2.89	0.41
2:J:113:A:H2'	2:J:114:A:O5'	2.20	0.41
2:J:143:A:H2'	2:J:144:A:H8	1.85	0.41
2:J:171:A:H2'	2:J:172:A:N7	2.26	0.41
2:J:186:A:H2'	2:J:187:A:C5'	2.51	0.41
2:J:237:A:C4	2:J:238:A:C8	3.08	0.41
2:J:247:A:C2'	2:J:248:A:O5'	2.69	0.41
3:K:46:A:C3'	3:K:47:A:C5'	2.85	0.41
3:K:111:A:C2	3:K:112:A:C4	3.09	0.41
3:K:111:A:C2	3:K:112:A:N7	2.89	0.41
3:K:129:A:C2	3:K:130:A:C5	3.08	0.41
3:K:170:A:C4	3:K:171:A:C8	3.08	0.41
3:K:174:A:C4	3:K:175:A:C8	3.09	0.41
3:K:217:A:C4	3:K:218:A:N7	2.89	0.41
3:K:249:A:C2	3:K:250:A:N7	2.89	0.41
3:K:254:A:C5	3:K:255:A:C8	3.08	0.41
4:L:454:U:C2	4:L:455:U:C5	3.09	0.41
4:L:470:U:H2'	4:L:471:U:H6	1.85	0.41
4:L:540:U:H2'	4:L:541:U:C6	2.53	0.41
4:L:569:U:C2	4:L:570:U:C5	3.08	0.41
4:L:587:U:C2'	4:L:588:U:C4'	2.99	0.41
4:L:592:U:C2'	4:L:593:U:O5'	2.68	0.41
4:L:668:U:C4	4:L:669:U:C4	3.07	0.41
4:L:785:U:N3	4:L:786:U:C5	2.89	0.41
4:L:799:U:C2'	4:L:800:U:C5'	2.98	0.41
5:M:335:U:O5'	5:M:336:U:P	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:415:U:C2	5:M:416:U:C6	3.09	0.41
5:M:462:U:O2	5:M:463:U:C6	2.74	0.41
5:M:486:U:H2'	5:M:487:U:H6	1.84	0.41
5:M:522:U:H2'	5:M:523:U:O5'	2.20	0.41
5:M:522:U:N3	5:M:523:U:C5	2.89	0.41
6:N:279:U:C4	6:N:280:U:H5	2.38	0.41
6:N:312:U:O2'	6:N:313:U:H5'	2.21	0.41
6:N:331:U:N3	6:N:332:U:C4	2.89	0.41
6:N:349:U:C2'	6:N:350:U:O5'	2.68	0.41
6:N:413:U:H2'	6:N:414:U:O5'	2.21	0.41
1:I:15:A:C6	1:I:16:A:N7	2.89	0.41
1:I:24:A:C2	1:I:25:A:C5	3.08	0.41
1:I:46:A:C4	1:I:47:A:C8	3.07	0.41
1:I:68:A:C2	1:I:69:A:C5	3.08	0.41
1:I:100:A:H2'	1:I:101:A:C5'	2.49	0.41
1:I:196:A:N1	1:I:197:A:C5	2.89	0.41
1:I:222:A:C2	1:I:223:A:C8	3.09	0.41
1:I:235:A:C6	1:I:236:A:N7	2.88	0.41
1:I:270:A:H2'	1:I:271:A:C8	2.56	0.41
1:I:271:A:C4	1:I:272:A:N7	2.88	0.41
1:I:309:A:C2	1:I:310:A:C5	3.09	0.41
1:I:342:A:C2	1:I:343:A:N9	2.89	0.41
1:I:359:A:C6	1:I:360:A:N7	2.89	0.41
1:I:363:A:C5	1:I:364:A:N7	2.88	0.41
1:I:378:A:O2'	1:I:379:A:H5'	2.21	0.41
2:J:11:A:C2	2:J:12:A:N9	2.89	0.41
2:J:30:A:N1	5:M:524:U:C4	2.88	0.41
2:J:33:A:N6	2:J:34:A:H62	2.19	0.41
2:J:54:A:HO2'	2:J:55:A:C4'	2.33	0.41
2:J:55:A:N1	2:J:56:A:C5	2.89	0.41
2:J:60:A:C2	2:J:61:A:C5	3.09	0.41
2:J:68:A:N1	2:J:69:A:C5	2.88	0.41
2:J:76:A:H2'	2:J:77:A:H8	1.86	0.41
2:J:79:A:H2'	2:J:80:A:O4'	2.21	0.41
2:J:113:A:C2'	2:J:114:A:C5'	2.99	0.41
2:J:138:A:C6	2:J:139:A:C5	3.08	0.41
2:J:170:A:C2	2:J:171:A:N9	2.88	0.41
2:J:185:A:C2	2:J:186:A:C5	3.09	0.41
2:J:201:A:N3	2:J:202:A:C8	2.89	0.41
2:J:255:A:C2	2:J:256:A:C5	3.09	0.41
3:K:33:A:O2'	3:K:34:A:C5'	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:67:A:N3	3:K:68:A:C8	2.89	0.41
3:K:69:A:H2'	3:K:70:A:C8	2.56	0.41
3:K:99:A:N3	3:K:100:A:C1'	2.84	0.41
3:K:100:A:N1	3:K:101:A:C6	2.89	0.41
3:K:113:A:N3	3:K:114:A:C8	2.89	0.41
3:K:119:A:C2	6:N:413:U:C2	3.09	0.41
3:K:138:A:H2'	3:K:139:A:H8	1.85	0.41
3:K:160:A:N3	3:K:161:A:C8	2.88	0.41
3:K:180:A:N6	3:K:181:A:N6	2.69	0.41
3:K:195:A:C4	3:K:196:A:N7	2.89	0.41
3:K:203:A:H2	3:K:204:A:C4	2.37	0.41
3:K:253:A:N6	6:N:279:U:C4	2.89	0.41
4:L:424:U:C6	4:L:425:U:C5	3.09	0.41
4:L:435:U:C2'	4:L:436:U:H6	2.24	0.41
4:L:451:U:N3	4:L:452:U:C4	2.89	0.41
4:L:458:U:H2'	4:L:459:U:O4'	2.20	0.41
4:L:460:U:O2	4:L:461:U:C6	2.74	0.41
4:L:462:U:H2'	4:L:463:U:H6	1.84	0.41
4:L:533:U:C2	4:L:534:U:C5	3.09	0.41
4:L:534:U:N3	4:L:535:U:C4	2.89	0.41
4:L:542:U:C4	4:L:543:U:C4	3.08	0.41
4:L:542:U:C4	4:L:543:U:C5	3.08	0.41
4:L:548:U:N3	4:L:549:U:C4	2.89	0.41
4:L:551:U:C2	4:L:552:U:H5	2.33	0.41
4:L:555:U:O2'	4:L:556:U:C5'	2.65	0.41
4:L:592:U:H2'	4:L:593:U:O5'	2.21	0.41
4:L:601:U:H2'	4:L:602:U:C5'	2.51	0.41
4:L:631:U:C2	4:L:632:U:C5	3.09	0.41
4:L:637:U:C2'	4:L:638:U:C6	2.89	0.41
4:L:649:U:N3	4:L:650:U:C4	2.88	0.41
4:L:660:U:H2'	4:L:661:U:C5'	2.45	0.41
4:L:694:U:C2	4:L:695:U:C5	2.98	0.41
4:L:724:U:N3	4:L:725:U:C5	2.89	0.41
4:L:759:U:O2	4:L:760:U:C1'	2.69	0.41
4:L:770:U:C5	4:L:771:U:H5	2.39	0.41
4:L:772:U:H2'	4:L:773:U:O5'	2.21	0.41
4:L:800:U:C4	4:L:801:U:C5	3.09	0.41
5:M:362:U:H2'	5:M:363:U:C6	2.56	0.41
5:M:392:U:C2	5:M:393:U:C5	3.09	0.41
5:M:408:U:O2	5:M:409:U:O4'	2.38	0.41
5:M:429:U:C2'	5:M:430:U:O5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:435:U:C2'	5:M:436:U:C6	2.84	0.41
5:M:465:U:C4	5:M:466:U:H5	2.34	0.41
5:M:479:U:H2'	5:M:480:U:C6	2.53	0.41
5:M:534:U:H2'	5:M:535:U:C5	2.56	0.41
6:N:272:U:C2	6:N:273:U:C5	3.09	0.41
6:N:321:U:C2'	6:N:322:U:H6	2.32	0.41
6:N:326:U:C2'	6:N:327:U:H6	2.23	0.41
6:N:400:U:O2	6:N:401:U:C6	2.73	0.41
6:N:406:U:O4	6:N:407:U:O4	2.39	0.41
6:N:418:U:C2	6:N:419:U:H5	2.36	0.41
6:N:434:U:O2	6:N:435:U:C6	2.74	0.41
6:N:449:U:O2'	6:N:450:U:O4'	2.38	0.41
6:N:451:U:C3'	6:N:452:U:C5'	2.70	0.41
6:N:459:U:N3	6:N:460:U:C4	2.89	0.41
6:N:461:U:N3	6:N:462:U:C5	2.89	0.41
6:N:472:U:N3	6:N:473:U:C4	2.88	0.41
6:N:481:U:C2'	6:N:482:U:O4'	2.68	0.41
6:N:496:U:C2	6:N:497:U:C6	3.09	0.41
1:I:3:A:O2'	1:I:4:A:H5'	2.20	0.41
1:I:50:A:C4	1:I:51:A:C8	3.09	0.41
1:I:57:A:O2'	1:I:58:A:H5'	2.20	0.41
1:I:90:A:O2'	1:I:91:A:O4'	2.38	0.41
1:I:159:A:C2	1:I:160:A:C4	3.09	0.41
1:I:170:A:O2'	1:I:171:A:H5'	2.20	0.41
1:I:233:A:N1	1:I:234:A:C5	2.88	0.41
1:I:246:A:C4	1:I:247:A:C8	3.08	0.41
1:I:247:A:C2	1:I:248:A:C5	3.09	0.41
1:I:271:A:C2	4:L:555:U:N3	2.89	0.41
1:I:309:A:C4	1:I:310:A:C8	3.09	0.41
1:I:323:A:H2	1:I:324:A:H1'	1.84	0.41
1:I:397:A:H2'	1:I:398:A:H8	1.86	0.41
2:J:90:A:C6	2:J:91:A:C5	3.09	0.41
2:J:101:A:H62	2:J:102:A:H62	1.56	0.41
2:J:104:A:C4	2:J:105:A:C8	3.08	0.41
2:J:113:A:N3	2:J:114:A:C8	2.89	0.41
2:J:205:A:C5	2:J:206:A:C8	3.08	0.41
2:J:220:A:N1	2:J:221:A:C5	2.89	0.41
2:J:240:A:C2'	2:J:241:A:H5'	2.49	0.41
2:J:252:A:C2'	2:J:253:A:O5'	2.69	0.41
2:J:266:A:C2	2:J:267:A:C5	3.09	0.41
3:K:89:A:C6	3:K:90:A:N6	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:94:A:C6	3:K:95:A:N6	2.89	0.41
3:K:129:A:H2'	3:K:130:A:C8	2.53	0.41
3:K:212:A:C8	3:K:213:A:N7	2.89	0.41
4:L:541:U:C4	4:L:542:U:C5	3.08	0.41
4:L:551:U:H2'	4:L:552:U:C5	2.56	0.41
4:L:567:U:H2'	4:L:568:U:H6	1.86	0.41
4:L:638:U:H2'	4:L:639:U:H6	1.86	0.41
4:L:666:U:C4	4:L:667:U:O4	2.74	0.41
4:L:740:U:C4	4:L:741:U:C4	3.09	0.41
4:L:774:U:O2	4:L:775:U:C6	2.74	0.41
4:L:775:U:N3	4:L:776:U:C5	2.89	0.41
5:M:319:U:H2'	5:M:320:U:H6	1.86	0.41
5:M:339:U:C2	5:M:340:U:C6	3.08	0.41
5:M:360:U:N3	5:M:361:U:C5	2.89	0.41
6:N:343:U:H2'	6:N:344:U:H6	1.86	0.41
6:N:419:U:O2	6:N:420:U:C6	2.74	0.41
6:N:491:U:C2	6:N:492:U:C5	3.09	0.41
1:I:13:A:N3	1:I:14:A:C4	2.90	0.40
1:I:53:A:C2	1:I:54:A:N9	2.89	0.40
1:I:61:A:O2'	1:I:62:A:C5'	2.64	0.40
1:I:70:A:H2'	1:I:71:A:O5'	2.21	0.40
1:I:149:A:C3'	1:I:150:A:OP2	2.68	0.40
1:I:151:A:H2'	1:I:152:A:H8	1.86	0.40
1:I:159:A:H2'	1:I:160:A:O5'	2.20	0.40
1:I:165:A:H2'	1:I:166:A:C8	2.56	0.40
1:I:173:A:N6	1:I:174:A:H62	2.18	0.40
1:I:182:A:C2'	1:I:183:A:C5'	2.98	0.40
1:I:218:A:C2	1:I:219:A:C5	3.09	0.40
1:I:230:A:H2'	1:I:231:A:H8	1.86	0.40
1:I:274:A:O2'	1:I:275:A:P	2.71	0.40
1:I:298:A:C2'	1:I:299:A:H5'	2.51	0.40
1:I:335:A:H61	1:I:336:A:N6	2.01	0.40
1:I:342:A:N1	1:I:343:A:C5	2.89	0.40
1:I:372:A:H2'	1:I:373:A:O5'	2.21	0.40
1:I:387:A:C6	1:I:388:A:C5	3.08	0.40
2:J:76:A:C2	2:J:77:A:C8	3.08	0.40
2:J:78:A:H2'	2:J:79:A:C5'	2.51	0.40
2:J:84:A:H2'	2:J:85:A:C4'	2.51	0.40
2:J:97:A:C2	2:J:98:A:C6	3.03	0.40
3:K:96:A:H2'	3:K:97:A:C5'	2.44	0.40
3:K:109:A:H2'	3:K:110:A:C5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:155:A:C2	3:K:156:A:C5	3.10	0.40
4:L:419:U:H2'	4:L:420:U:C5	2.55	0.40
4:L:432:U:C2	4:L:433:U:C5	3.09	0.40
4:L:444:U:H2'	4:L:445:U:C6	2.57	0.40
4:L:476:U:C2	4:L:477:U:C5	3.09	0.40
4:L:482:U:N3	4:L:483:U:C5	2.89	0.40
4:L:513:U:C2'	4:L:514:U:O5'	2.69	0.40
4:L:543:U:C4	4:L:544:U:C4	3.04	0.40
4:L:554:U:N3	4:L:555:U:C4	2.89	0.40
4:L:563:U:C4	4:L:564:U:C4	3.09	0.40
4:L:669:U:H2'	4:L:670:U:O4'	2.21	0.40
4:L:715:U:O2	4:L:716:U:C1'	2.69	0.40
5:M:321:U:H2'	5:M:322:U:C6	2.56	0.40
5:M:411:U:N3	5:M:412:U:C5	2.89	0.40
5:M:417:U:C2	5:M:418:U:C6	3.07	0.40
5:M:427:U:H2'	5:M:428:U:C6	2.55	0.40
5:M:460:U:C2'	5:M:461:U:O5'	2.66	0.40
5:M:461:U:O2	5:M:462:U:C6	2.74	0.40
5:M:472:U:N3	5:M:473:U:C4	2.90	0.40
6:N:379:U:O2'	6:N:380:U:C4'	2.69	0.40
6:N:481:U:HO2'	6:N:482:U:C5'	1.92	0.40
6:N:500:U:H2'	6:N:501:U:C6	2.55	0.40
6:N:514:U:O2'	6:N:515:U:H5'	2.21	0.40
6:N:528:U:C2	6:N:529:U:C5	3.09	0.40
1:I:21:A:N3	1:I:22:A:C8	2.89	0.40
1:I:45:A:C2'	1:I:46:A:O5'	2.68	0.40
1:I:50:A:C5	1:I:51:A:N7	2.89	0.40
1:I:85:A:H2'	1:I:86:A:H8	1.86	0.40
1:I:127:A:C2	1:I:128:A:C4	3.09	0.40
1:I:144:A:N6	1:I:145:A:N6	2.69	0.40
1:I:177:A:C2	1:I:178:A:C4	3.10	0.40
1:I:202:A:H2'	1:I:203:A:O4'	2.22	0.40
1:I:231:A:HO2'	1:I:232:A:H5'	1.82	0.40
1:I:253:A:C2'	1:I:254:A:H8	2.31	0.40
1:I:273:A:C2	1:I:274:A:N9	2.89	0.40
1:I:286:A:N1	1:I:287:A:C5	2.90	0.40
1:I:292:A:C2	1:I:293:A:N7	2.89	0.40
1:I:347:A:C2'	1:I:348:A:O5'	2.68	0.40
2:J:12:A:H2'	2:J:13:A:C5'	2.51	0.40
2:J:30:A:H2'	2:J:31:A:O5'	2.21	0.40
2:J:35:A:C4	2:J:36:A:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:36:A:C4	2:J:37:A:N7	2.89	0.40
2:J:43:A:N3	2:J:44:A:N9	2.68	0.40
2:J:132:A:H2'	2:J:133:A:H8	1.86	0.40
2:J:146:A:N6	5:M:408:U:O4	2.54	0.40
2:J:167:A:H2'	2:J:168:A:H8	1.86	0.40
2:J:207:A:C2	2:J:208:A:C4	3.09	0.40
2:J:267:A:N3	2:J:268:A:C8	2.90	0.40
3:K:72:A:C2'	3:K:73:A:H5'	2.51	0.40
3:K:79:A:C2	3:K:80:A:C5	3.08	0.40
3:K:91:A:N3	3:K:92:A:C8	2.89	0.40
3:K:93:A:N1	3:K:94:A:C5	2.89	0.40
3:K:93:A:N3	3:K:94:A:C8	2.89	0.40
3:K:122:A:N1	3:K:123:A:C5	2.88	0.40
3:K:128:A:N1	3:K:129:A:C5	2.89	0.40
3:K:131:A:C4	3:K:132:A:C8	3.09	0.40
3:K:164:A:H2'	3:K:165:A:C8	2.56	0.40
3:K:165:A:C6	3:K:166:A:C5	3.09	0.40
4:L:420:U:C4	4:L:421:U:C4	3.09	0.40
4:L:577:U:C5	4:L:578:U:H5	2.39	0.40
4:L:601:U:N3	4:L:602:U:C4	2.88	0.40
4:L:702:U:C2'	4:L:703:U:O5'	2.69	0.40
4:L:740:U:H2'	4:L:741:U:C4'	2.51	0.40
4:L:792:U:N3	4:L:793:U:C5	2.89	0.40
4:L:806:U:O2	4:L:807:U:C6	2.74	0.40
4:L:822:U:C2	4:L:823:U:C5	3.09	0.40
5:M:285:U:C2	5:M:286:U:C6	3.10	0.40
5:M:292:U:H2'	5:M:293:U:C6	2.54	0.40
5:M:309:U:H2'	5:M:310:U:H6	1.86	0.40
5:M:352:U:C2'	5:M:353:U:O5'	2.67	0.40
5:M:404:U:N3	5:M:405:U:C4	2.89	0.40
5:M:426:U:N3	5:M:427:U:C5	2.88	0.40
5:M:433:U:N1	5:M:434:U:H5	2.18	0.40
5:M:446:U:C2	5:M:447:U:C6	3.09	0.40
5:M:523:U:H2'	5:M:524:U:C6	2.55	0.40
6:N:316:U:O2'	6:N:317:U:C5'	2.69	0.40
6:N:360:U:C2	6:N:361:U:C6	3.10	0.40
6:N:368:U:H2'	6:N:369:U:H6	1.85	0.40
6:N:417:U:N3	6:N:418:U:C5	2.89	0.40
6:N:439:U:C2'	6:N:440:U:C5'	2.99	0.40
6:N:450:U:C2'	6:N:451:U:C6	2.94	0.40
6:N:502:U:C2'	6:N:503:U:H5'	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3:A:N3	1:I:4:A:C8	2.89	0.40
1:I:37:A:H2'	1:I:38:A:O5'	2.21	0.40
1:I:37:A:N1	1:I:38:A:C5	2.90	0.40
1:I:48:A:C2	1:I:49:A:C8	3.09	0.40
1:I:142:A:C2	1:I:143:A:C5	3.09	0.40
1:I:189:A:H2'	1:I:190:A:O5'	2.21	0.40
1:I:200:A:N3	1:I:201:A:C8	2.89	0.40
1:I:277:A:H61	1:I:278:A:N6	2.02	0.40
1:I:332:A:N3	1:I:333:A:C8	2.90	0.40
1:I:337:A:C4	1:I:338:A:C8	3.10	0.40
1:I:341:A:C5	1:I:342:A:N7	2.90	0.40
1:I:374:A:C2'	1:I:375:A:H5'	2.47	0.40
2:J:68:A:C6	2:J:69:A:C6	3.10	0.40
2:J:71:A:N1	2:J:72:A:C6	2.88	0.40
2:J:166:A:C2'	2:J:167:A:O5'	2.69	0.40
2:J:175:A:C2	2:J:176:A:C4	3.10	0.40
2:J:204:A:H62	2:J:205:A:H62	1.57	0.40
2:J:263:A:H2'	2:J:264:A:H8	1.86	0.40
3:K:42:A:C2'	3:K:43:A:O4'	2.68	0.40
3:K:57:A:N1	3:K:58:A:C6	2.89	0.40
3:K:129:A:C2	3:K:130:A:C4	3.09	0.40
3:K:160:A:H2'	3:K:161:A:O4'	2.22	0.40
3:K:161:A:C2	3:K:162:A:C8	3.10	0.40
3:K:165:A:O2'	3:K:166:A:C4'	2.66	0.40
3:K:197:A:O2'	3:K:198:A:H5'	2.21	0.40
3:K:199:A:N6	3:K:200:A:N6	2.70	0.40
4:L:567:U:C2	4:L:568:U:C5	3.10	0.40
4:L:692:U:H2'	4:L:693:U:C5'	2.49	0.40
4:L:788:U:C2	4:L:789:U:C5	3.08	0.40
5:M:303:U:C2	5:M:304:U:C6	3.08	0.40
5:M:323:U:C2	5:M:324:U:N1	2.90	0.40
5:M:403:U:H2'	5:M:404:U:H6	1.86	0.40
5:M:486:U:N3	5:M:487:U:C5	2.89	0.40
6:N:310:U:C2	6:N:311:U:C6	3.09	0.40
6:N:312:U:C2'	6:N:313:U:H5'	2.50	0.40
6:N:312:U:C2	6:N:313:U:C6	3.09	0.40
6:N:322:U:N3	6:N:323:U:C4	2.90	0.40
6:N:362:U:H2'	6:N:363:U:C5'	2.47	0.40
6:N:425:U:O2	6:N:426:U:C6	2.72	0.40
6:N:517:U:O3'	6:N:518:U:OP2	2.39	0.40
6:N:517:U:H2'	6:N:518:U:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:520:U:H2'	6:N:521:U:H6	1.87	0.40
1:I:79:A:N6	1:I:80:A:C6	2.90	0.40
1:I:157:A:C2'	1:I:158:A:O5'	2.69	0.40
1:I:239:A:N3	1:I:240:A:N9	2.70	0.40
1:I:239:A:H2'	1:I:240:A:C8	2.48	0.40
1:I:271:A:H2'	1:I:272:A:C8	2.49	0.40
1:I:305:A:C6	1:I:306:A:C5	3.10	0.40
1:I:319:A:C4	1:I:320:A:C8	3.09	0.40
1:I:326:A:C2'	1:I:327:A:O5'	2.69	0.40
1:I:354:A:N6	1:I:355:A:N6	2.70	0.40
1:I:397:A:N6	1:I:398:A:N6	2.70	0.40
2:J:65:A:C6	2:J:66:A:C5	3.09	0.40
2:J:116:A:N1	2:J:117:A:N6	2.70	0.40
2:J:193:A:C5	2:J:194:A:N7	2.90	0.40
2:J:214:A:HO2'	2:J:215:A:C5'	2.04	0.40
2:J:229:A:H2'	2:J:230:A:C4'	2.44	0.40
3:K:41:A:C2'	3:K:42:A:O5'	2.69	0.40
4:L:421:U:C2'	4:L:422:U:C4'	2.99	0.40
4:L:477:U:O2	4:L:478:U:O4'	2.39	0.40
4:L:607:U:C2'	4:L:608:U:H5'	2.51	0.40
4:L:674:U:C2'	4:L:675:U:C4'	2.93	0.40
4:L:702:U:C2	4:L:703:U:C6	3.09	0.40
4:L:737:U:H2'	4:L:738:U:H6	1.87	0.40
4:L:801:U:C2	4:L:802:U:C6	3.09	0.40
5:M:300:U:C2'	5:M:301:U:O5'	2.67	0.40
5:M:323:U:C2'	5:M:324:U:H6	2.24	0.40
5:M:421:U:O4	5:M:422:U:O4	2.39	0.40
5:M:496:U:N3	5:M:497:U:C5	2.90	0.40
6:N:374:U:HO2'	6:N:375:U:C4'	2.35	0.40
6:N:475:U:C2'	6:N:476:U:O5'	2.70	0.40
1:I:22:A:H2'	1:I:23:A:O5'	2.22	0.40
1:I:68:A:N6	1:I:69:A:N6	2.69	0.40
1:I:166:A:H2'	1:I:167:A:O5'	2.21	0.40
1:I:197:A:C2	1:I:198:A:N7	2.89	0.40
1:I:224:A:C2	1:I:225:A:C5	3.09	0.40
1:I:264:A:C2	1:I:265:A:C5	3.09	0.40
1:I:273:A:N1	1:I:274:A:C4	2.89	0.40
1:I:279:A:H2	1:I:280:A:C4	2.37	0.40
1:I:345:A:N3	1:I:346:A:C8	2.89	0.40
1:I:363:A:O2'	1:I:364:A:H5'	2.21	0.40
2:J:42:A:N3	2:J:43:A:C8	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:48:A:C2	2:J:49:A:C8	3.09	0.40
2:J:59:A:H2'	2:J:60:A:C5'	2.51	0.40
2:J:72:A:H2'	2:J:73:A:O5'	2.21	0.40
2:J:99:A:O2'	2:J:100:A:C4'	2.69	0.40
2:J:110:A:H2'	2:J:111:A:H8	1.87	0.40
2:J:112:A:N3	2:J:113:A:C8	2.89	0.40
2:J:144:A:N1	5:M:410:U:C2	2.87	0.40
2:J:146:A:N1	2:J:147:A:C5	2.90	0.40
2:J:190:A:C4	2:J:191:A:N7	2.90	0.40
2:J:226:A:O2'	2:J:227:A:H5'	2.21	0.40
2:J:264:A:N3	2:J:265:A:C8	2.89	0.40
3:K:92:A:C2	3:K:93:A:C8	3.10	0.40
3:K:103:A:C4	3:K:104:A:N7	2.90	0.40
3:K:123:A:N3	3:K:124:A:C8	2.89	0.40
3:K:172:A:C2	3:K:173:A:C5	3.10	0.40
3:K:172:A:N1	3:K:173:A:C5	2.90	0.40
3:K:234:A:C6	3:K:235:A:C6	3.08	0.40
4:L:494:U:H2'	4:L:495:U:O5'	2.22	0.40
4:L:541:U:H2'	4:L:542:U:C5'	2.51	0.40
4:L:553:U:O2	4:L:554:U:C6	2.72	0.40
4:L:653:U:H2'	4:L:654:U:C6	2.56	0.40
4:L:672:U:O4	4:L:673:U:O4	2.39	0.40
4:L:709:U:N3	4:L:710:U:C5	2.90	0.40
4:L:722:U:H2'	4:L:724:U:H5	1.87	0.40
4:L:745:U:O2'	4:L:746:U:H5'	2.22	0.40
4:L:821:U:H2'	4:L:822:U:C5'	2.51	0.40
5:M:296:U:C4	5:M:297:U:C5	3.10	0.40
5:M:392:U:O2	5:M:393:U:C6	2.75	0.40
5:M:511:U:C2'	5:M:512:U:H6	2.33	0.40
6:N:282:U:N3	6:N:283:U:C5	2.89	0.40
6:N:294:U:C2	6:N:295:U:C6	3.09	0.40
6:N:300:U:C4	6:N:301:U:O4	2.75	0.40
6:N:494:U:H2'	6:N:495:U:H6	1.86	0.40

All (2447) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:150:A:OP2	4:L:465:U:C3'[3_556]	0.12	2.08
4:L:752:U:OP2	5:M:500:U:P[3_556]	0.21	1.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:758:U:C5'	5:M:510:U:N3[3_556]	0.23	1.97
2:J:48:A:C1'	4:L:754:U:O3'[3_546]	0.25	1.95
2:J:43:A:C1'	4:L:759:U:C2'[3_546]	0.28	1.92
2:J:46:A:C4	4:L:756:U:N1[3_546]	0.30	1.90
3:K:143:A:N1	5:M:390:U:C6[4_556]	0.31	1.89
2:J:170:A:C5	3:K:150:A:C8[4_456]	0.34	1.86
2:J:169:A:O2'	3:K:151:A:C6[4_456]	0.36	1.84
4:L:751:U:C2'	5:M:499:U:C5'[3_556]	0.36	1.84
4:L:752:U:C1'	5:M:499:U:OP1[3_556]	0.36	1.84
1:I:67:A:C2	2:J:44:A:O3'[3_556]	0.38	1.82
3:K:12:A:C8	5:M:313:U:O4[2_664]	0.38	1.82
4:L:469:U:O4	4:L:679:U:N1[3_546]	0.38	1.82
1:I:150:A:OP1	4:L:465:U:O2'[3_556]	0.39	1.81
2:J:48:A:C3'	4:L:754:U:C4'[3_546]	0.41	1.79
1:I:62:A:C1'	5:M:504:U:C2'[3_556]	0.42	1.78
3:K:142:A:C2	5:M:390:U:C5'[4_556]	0.42	1.78
4:L:469:U:C6	4:L:679:U:C3'[3_546]	0.42	1.78
1:I:64:A:N3	5:M:503:U:P[3_556]	0.43	1.77
1:I:67:A:N1	2:J:45:A:P[3_556]	0.43	1.77
1:I:65:A:C3'	5:M:502:U:O5'[3_556]	0.44	1.76
1:I:66:A:P	5:M:502:U:OP2[3_556]	0.44	1.76
1:I:143:A:C1'	4:L:471:U:O2'[3_556]	0.45	1.75
2:J:43:A:O4'	4:L:760:U:C5'[3_546]	0.45	1.75
1:I:62:A:N7	5:M:505:U:P[3_556]	0.46	1.74
3:K:148:A:P	5:M:385:U:O5'[4_556]	0.46	1.74
2:J:44:A:OP2	4:L:760:U:C5[3_546]	0.47	1.73
5:M:391:U:O2'	6:N:389:U:OP2[4_456]	0.47	1.73
1:I:64:A:C4'	5:M:502:U:O2[3_556]	0.48	1.72
1:I:70:A:N1	2:J:46:A:C3'[3_556]	0.48	1.72
5:M:391:U:C5	6:N:388:U:O2[4_456]	0.48	1.72
2:J:168:A:P	6:N:383:U:O5'[4_456]	0.49	1.71
3:K:143:A:N7	5:M:389:U:O2'[4_556]	0.49	1.71
2:J:48:A:N9	4:L:755:U:P[3_546]	0.50	1.70
2:J:240:A:OP1	6:N:514:U:OP1[2_666]	0.50	1.70
2:J:164:A:O4'	6:N:387:U:O5'[4_456]	0.51	1.69
2:J:169:A:OP2	6:N:382:U:C1'[4_456]	0.51	1.69
3:K:144:A:O5'	5:M:389:U:P[4_556]	0.51	1.69
1:I:65:A:O4'	5:M:502:U:C4'[3_556]	0.52	1.68
2:J:47:A:N9	4:L:755:U:N1[3_546]	0.52	1.68
2:J:44:A:C8	4:L:759:U:C6[3_546]	0.53	1.67
3:K:149:A:O4'	5:M:383:U:N3[4_556]	0.53	1.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:243:A:C8	6:N:517:U:C2[2_666]	0.54	1.66
2:J:48:A:C5'	4:L:754:U:C1'[3_546]	0.55	1.65
2:J:164:A:C6	6:N:387:U:N3[4_456]	0.55	1.65
2:J:169:A:N3	3:K:150:A:N6[4_456]	0.55	1.65
2:J:242:A:O3'	3:K:15:A:C4[2_666]	0.55	1.65
2:J:165:A:OP2	6:N:386:U:C4'[4_456]	0.56	1.64
4:L:757:U:C4'	5:M:509:U:C2[3_556]	0.56	1.64
1:I:62:A:C2	5:M:504:U:C5'[3_556]	0.57	1.63
1:I:63:A:C3'	5:M:503:U:O2[3_556]	0.57	1.63
3:K:12:A:C4	5:M:313:U:C5[2_664]	0.57	1.63
2:J:43:A:N9	4:L:759:U:C3'[3_546]	0.58	1.62
1:I:63:A:N3	5:M:503:U:O3'[3_556]	0.59	1.61
2:J:47:A:C3'	4:L:754:U:C2[3_546]	0.59	1.61
1:I:62:A:C8	5:M:505:U:O5'[3_556]	0.60	1.60
1:I:65:A:OP1	5:M:502:U:C5[3_556]	0.60	1.60
1:I:143:A:C5	4:L:471:U:O4'[3_556]	0.60	1.60
2:J:244:A:N6	6:N:517:U:C5'[2_666]	0.60	1.60
4:L:756:U:O3'	5:M:508:U:N3[3_556]	0.60	1.60
2:J:44:A:N3	4:L:758:U:N1[3_546]	0.61	1.59
3:K:142:A:N1	5:M:390:U:C4'[4_556]	0.61	1.59
3:K:149:A:C4'	5:M:383:U:C2[4_556]	0.61	1.59
3:K:149:A:OP2	5:M:384:U:C1'[4_556]	0.61	1.59
5:M:312:U:C4'	6:N:519:U:O2[2_666]	0.61	1.59
1:I:64:A:O3'	5:M:502:U:N1[3_556]	0.62	1.58
2:J:46:A:N9	4:L:756:U:C2[3_546]	0.62	1.58
5:M:391:U:C2	6:N:388:U:C2'[4_456]	0.62	1.58
1:I:66:A:C5'	5:M:502:U:OP1[3_556]	0.63	1.57
1:I:69:A:C5	2:J:45:A:O3'[3_556]	0.63	1.57
2:J:46:A:C8	4:L:756:U:N3[3_546]	0.63	1.57
2:J:242:A:C2	6:N:518:U:O4[2_666]	0.63	1.57
4:L:751:U:C3'	5:M:499:U:C4'[3_556]	0.63	1.57
2:J:44:A:C1'	4:L:758:U:O2[3_546]	0.64	1.56
5:M:312:U:O4'	6:N:519:U:C2[2_666]	0.64	1.56
1:I:59:A:O5'	2:J:41:A:OP1[3_556]	0.65	1.55
3:K:143:A:N9	5:M:389:U:O3'[4_556]	0.65	1.55
1:I:62:A:P	5:M:505:U:C2'[3_556]	0.66	1.54
2:J:44:A:C5'	4:L:759:U:O2[3_546]	0.66	1.54
2:J:45:A:N9	4:L:757:U:N3[3_546]	0.66	1.54
1:I:62:A:C4	5:M:504:U:C3'[3_556]	0.68	1.52
1:I:65:A:O3'	5:M:501:U:O3'[3_556]	0.68	1.52
1:I:149:A:OP1	4:L:465:U:C5[3_556]	0.68	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:43:A:C2	4:L:758:U:C2'[3_546]	0.68	1.52
2:J:48:A:O4'	4:L:754:U:C2'[3_546]	0.68	1.52
2:J:170:A:O5'	3:K:151:A:C8[4_456]	0.68	1.52
1:I:63:A:N3	5:M:503:U:C3'[3_556]	0.69	1.51
2:J:242:A:C4'	3:K:15:A:C5[2_666]	0.69	1.51
5:M:392:U:C5'	6:N:389:U:OP1[4_456]	0.69	1.51
2:J:169:A:O4'	6:N:381:U:N3[4_456]	0.70	1.50
3:K:144:A:C6	5:M:389:U:N3[4_556]	0.70	1.50
3:K:145:A:OP2	5:M:388:U:O5'[4_556]	0.70	1.50
4:L:751:U:O3'	5:M:499:U:C3'[3_556]	0.70	1.50
1:I:64:A:C2'	5:M:502:U:C1'[3_556]	0.71	1.49
3:K:148:A:C4	5:M:385:U:O4[4_556]	0.71	1.49
5:M:390:U:C2	6:N:388:U:N3[4_456]	0.71	1.49
1:I:64:A:C2	5:M:503:U:OP1[3_556]	0.72	1.48
1:I:351:A:O3'	4:L:677:U:OP1[3_546]	0.72	1.48
2:J:43:A:C4'	4:L:760:U:C4'[3_546]	0.72	1.48
4:L:469:U:C2'	4:L:680:U:OP2[3_546]	0.72	1.48
5:M:390:U:O2	6:N:388:U:C4[4_456]	0.72	1.48
1:I:71:A:N6	2:J:47:A:OP1[3_556]	0.73	1.47
1:I:352:A:OP2	4:L:677:U:P[3_546]	0.73	1.47
1:I:62:A:N9	5:M:504:U:C3'[3_556]	0.74	1.46
1:I:356:A:N6	4:L:679:U:N3[3_546]	0.74	1.46
1:I:69:A:C6	2:J:46:A:P[3_556]	0.75	1.45
2:J:43:A:N1	4:L:758:U:C3'[3_546]	0.75	1.45
2:J:171:A:OP2	3:K:151:A:OP1[4_456]	0.75	1.45
2:J:171:A:OP2	3:K:151:A:P[4_456]	0.75	1.45
2:J:164:A:N9	6:N:387:U:C6[4_456]	0.76	1.44
2:J:169:A:C6	3:K:149:A:C6[4_456]	0.76	1.44
4:L:752:U:O4'	5:M:499:U:P[3_556]	0.76	1.44
1:I:63:A:C3'	5:M:503:U:C2[3_556]	0.77	1.43
1:I:150:A:C8	4:L:466:U:OP1[3_556]	0.77	1.43
3:K:148:A:C5	5:M:385:U:O4[4_556]	0.77	1.43
1:I:63:A:P	5:M:504:U:N3[3_556]	0.78	1.42
1:I:63:A:C5	5:M:504:U:OP2[3_556]	0.78	1.42
1:I:146:A:N1	1:I:356:A:N7[3_556]	0.78	1.42
3:K:12:A:C4'	5:M:314:U:C4[2_664]	0.78	1.42
1:I:146:A:C5	1:I:356:A:C8[3_556]	0.79	1.41
2:J:170:A:N7	3:K:150:A:C4[4_456]	0.79	1.41
2:J:171:A:N7	3:K:150:A:C5'[4_456]	0.79	1.41
3:K:144:A:N7	5:M:389:U:C6[4_556]	0.79	1.41
1:I:62:A:N3	5:M:504:U:C4'[3_556]	0.80	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:71:A:N1	2:J:47:A:C5'[3_556]	0.80	1.40
2:J:48:A:N3	4:L:755:U:OP1[3_546]	0.80	1.40
2:J:163:A:N3	6:N:387:U:C2'[4_456]	0.80	1.40
2:J:169:A:C4'	6:N:381:U:O2[4_456]	0.80	1.40
2:J:236:A:O3'	6:N:522:U:O2'[2_666]	0.80	1.40
5:M:312:U:P	6:N:520:U:C5[2_666]	0.80	1.40
1:I:62:A:C5'	5:M:505:U:C1'[3_556]	0.81	1.39
1:I:64:A:C4	5:M:503:U:O5'[3_556]	0.81	1.39
2:J:48:A:P	4:L:754:U:C5[3_546]	0.81	1.39
3:K:143:A:N9	5:M:389:U:C3'[4_556]	0.81	1.39
1:I:63:A:C6	5:M:504:U:OP2[3_556]	0.82	1.38
1:I:69:A:N6	2:J:46:A:OP2[3_556]	0.82	1.38
5:M:312:U:O5'	6:N:520:U:C5[2_666]	0.82	1.38
1:I:64:A:O2'	5:M:502:U:C1'[3_556]	0.83	1.37
1:I:146:A:C6	1:I:356:A:N7[3_556]	0.83	1.37
2:J:169:A:N6	3:K:149:A:C6[4_456]	0.83	1.37
2:J:170:A:P	3:K:151:A:N9[4_456]	0.83	1.37
2:J:170:A:O5'	3:K:151:A:N9[4_456]	0.83	1.37
3:K:147:A:C4'	5:M:386:U:OP2[4_556]	0.83	1.37
1:I:62:A:O3'	5:M:504:U:O2[3_556]	0.84	1.36
1:I:67:A:C6	2:J:45:A:OP2[3_556]	0.84	1.36
1:I:146:A:C3'	1:I:356:A:OP1[3_556]	0.84	1.36
2:J:169:A:C4	3:K:150:A:N6[4_456]	0.84	1.36
3:K:13:A:C4'	5:M:313:U:O2'[2_664]	0.84	1.36
1:I:146:A:O4'	1:I:356:A:C5'[3_556]	0.85	1.35
1:I:149:A:C4'	4:L:466:U:C5[3_556]	0.85	1.35
2:J:44:A:C2	4:L:758:U:C6[3_546]	0.85	1.35
2:J:45:A:C8	4:L:758:U:C4[3_546]	0.85	1.35
2:J:168:A:C4	6:N:383:U:O4[4_456]	0.85	1.35
2:J:168:A:C5'	6:N:383:U:OP2[4_456]	0.85	1.35
2:J:169:A:C5'	6:N:381:U:O2[4_456]	0.85	1.35
1:I:64:A:OP2	5:M:503:U:N3[3_556]	0.86	1.34
1:I:64:A:C3'	5:M:502:U:N1[3_556]	0.86	1.34
1:I:64:A:P	5:M:503:U:N3[3_556]	0.86	1.34
2:J:244:A:C8	6:N:517:U:O2'[2_666]	0.86	1.34
3:K:144:A:N6	5:M:389:U:N3[4_556]	0.86	1.34
4:L:756:U:C3'	5:M:508:U:N3[3_556]	0.86	1.34
1:I:66:A:O5'	5:M:502:U:OP1[3_556]	0.87	1.33
2:J:170:A:N7	3:K:150:A:C5[4_456]	0.87	1.33
3:K:143:A:C3'	5:M:389:U:C5'[4_556]	0.87	1.33
3:K:147:A:O5'	5:M:386:U:P[4_556]	0.87	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:65:A:O3'	5:M:502:U:P[3_556]	0.88	1.32
1:I:69:A:C4	2:J:45:A:O3'[3_556]	0.88	1.32
1:I:143:A:N7	4:L:471:U:O4'[3_556]	0.88	1.32
2:J:44:A:P	4:L:760:U:C6[3_546]	0.88	1.32
2:J:45:A:N9	4:L:757:U:C2[3_546]	0.88	1.32
2:J:164:A:O2'	6:N:387:U:OP2[4_456]	0.88	1.32
4:L:469:U:C1'	4:L:680:U:P[3_546]	0.88	1.32
4:L:757:U:C4'	5:M:509:U:O2[3_556]	0.88	1.32
5:M:392:U:O5'	6:N:389:U:OP1[4_456]	0.88	1.32
2:J:42:A:O3'	4:L:761:U:OP2[3_546]	0.89	1.31
2:J:44:A:N3	4:L:758:U:C6[3_546]	0.89	1.31
2:J:243:A:C8	6:N:517:U:O2[2_666]	0.89	1.31
3:K:12:A:N6	5:M:312:U:C4[2_664]	0.89	1.31
3:K:147:A:C6	5:M:386:U:O4[4_556]	0.89	1.31
1:I:68:A:C2	2:J:45:A:C4'[3_556]	0.90	1.30
1:I:146:A:N1	1:I:356:A:C5[3_556]	0.90	1.30
2:J:43:A:C6	4:L:759:U:O5'[3_546]	0.90	1.30
2:J:44:A:P	4:L:760:U:N1[3_546]	0.90	1.30
2:J:168:A:N1	3:K:148:A:N6[4_456]	0.90	1.30
2:J:242:A:O3'	3:K:15:A:N3[2_666]	0.90	1.30
1:I:64:A:C2'	5:M:502:U:C2'[3_556]	0.91	1.29
2:J:49:A:OP1	4:L:753:U:O2'[3_546]	0.91	1.29
2:J:167:A:OP1	6:N:384:U:OP1[4_456]	0.91	1.29
2:J:243:A:N7	6:N:517:U:C2[2_666]	0.91	1.29
2:J:244:A:N6	6:N:517:U:O5'[2_666]	0.91	1.29
3:K:148:A:OP2	5:M:385:U:C4'[4_556]	0.91	1.29
5:M:391:U:N1	6:N:388:U:C2'[4_456]	0.91	1.29
2:J:44:A:O5'	4:L:759:U:O2[3_546]	0.92	1.28
2:J:170:A:N6	3:K:149:A:C4[4_456]	0.92	1.28
3:K:147:A:C5'	5:M:386:U:OP2[4_556]	0.92	1.28
1:I:352:A:OP1	4:L:676:U:C3'[3_546]	0.93	1.27
2:J:43:A:N6	4:L:759:U:OP2[3_546]	0.93	1.27
2:J:167:A:C5'	6:N:384:U:OP2[4_456]	0.93	1.27
1:I:59:A:OP2	2:J:41:A:C5'[3_556]	0.94	1.26
1:I:69:A:N3	2:J:45:A:O2'[3_556]	0.94	1.26
2:J:44:A:O5'	4:L:759:U:C2[3_546]	0.94	1.26
1:I:351:A:C3'	4:L:677:U:OP1[3_546]	0.95	1.25
2:J:242:A:C5	6:N:517:U:O4[2_666]	0.95	1.25
5:M:312:U:O4'	6:N:519:U:N3[2_666]	0.95	1.25
1:I:62:A:C5'	5:M:505:U:O4'[3_556]	0.96	1.24
1:I:68:A:C2	2:J:45:A:C5'[3_556]	0.96	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:69:A:C5	2:J:46:A:P[3_556]	0.96	1.24
1:I:144:A:OP2	4:L:472:U:C1'[3_556]	0.96	1.24
2:J:164:A:C4'	6:N:387:U:O5'[4_456]	0.96	1.24
2:J:164:A:N7	6:N:387:U:N1[4_456]	0.96	1.24
2:J:170:A:OP1	3:K:151:A:C1'[4_456]	0.96	1.24
3:K:12:A:N6	5:M:312:U:C5[2_664]	0.96	1.24
1:I:61:A:C3'	5:M:505:U:O3'[3_556]	0.97	1.23
2:J:43:A:C5'	4:L:760:U:C3'[3_546]	0.97	1.23
2:J:47:A:C3'	4:L:754:U:N3[3_546]	0.97	1.23
2:J:49:A:OP2	4:L:754:U:O5'[3_546]	0.97	1.23
2:J:242:A:C3'	3:K:15:A:C5[2_666]	0.97	1.23
3:K:12:A:N9	5:M:313:U:C4[2_664]	0.97	1.23
3:K:146:A:C6	5:M:387:U:O4[4_556]	0.97	1.23
3:K:149:A:C5'	5:M:383:U:O2[4_556]	0.97	1.23
5:M:391:U:P	6:N:390:U:C5[4_456]	0.97	1.23
1:I:64:A:C4	5:M:503:U:P[3_556]	0.98	1.22
1:I:70:A:C4	2:J:46:A:C4'[3_556]	0.98	1.22
2:J:43:A:C6	4:L:759:U:P[3_546]	0.98	1.22
2:J:48:A:O5'	4:L:754:U:C6[3_546]	0.98	1.22
2:J:168:A:OP1	6:N:383:U:C5'[4_456]	0.98	1.22
2:J:171:A:N7	3:K:150:A:C4'[4_456]	0.98	1.22
2:J:171:A:C5	3:K:150:A:C5'[4_456]	0.98	1.22
5:M:390:U:C2'	6:N:389:U:O4[4_456]	0.98	1.22
1:I:142:A:O2'	4:L:472:U:OP2[3_556]	0.99	1.21
2:J:44:A:OP1	4:L:760:U:C2[3_546]	0.99	1.21
2:J:170:A:C5	3:K:150:A:N7[4_456]	0.99	1.21
2:J:170:A:N6	3:K:149:A:N3[4_456]	0.99	1.21
2:J:244:A:C5	6:N:517:U:O3'[2_666]	0.99	1.21
3:K:147:A:O5'	5:M:386:U:O5'[4_556]	0.99	1.21
4:L:756:U:O3'	5:M:508:U:C2[3_556]	0.99	1.21
1:I:62:A:N3	5:M:504:U:C5'[3_556]	1.00	1.20
1:I:70:A:N3	2:J:46:A:C4'[3_556]	1.00	1.20
2:J:42:A:N9	4:L:760:U:OP1[3_546]	1.00	1.20
2:J:43:A:N3	4:L:759:U:O4'[3_546]	1.00	1.20
3:K:149:A:C8	5:M:384:U:C4[4_556]	1.00	1.20
4:L:752:U:P	5:M:499:U:C3'[3_556]	1.00	1.20
1:I:61:A:C2'	5:M:505:U:C4'[3_556]	1.01	1.19
1:I:143:A:N9	4:L:471:U:C2'[3_556]	1.01	1.19
2:J:44:A:OP2	4:L:760:U:C6[3_546]	1.01	1.19
2:J:45:A:C4	4:L:757:U:C6[3_546]	1.01	1.19
2:J:45:A:N3	4:L:757:U:C6[3_546]	1.01	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:49:A:P	4:L:754:U:C5'[3_546]	1.01	1.19
2:J:168:A:C5	6:N:383:U:O4[4_456]	1.01	1.19
3:K:142:A:N1	5:M:390:U:C5'[4_556]	1.01	1.19
4:L:469:U:C4	4:L:679:U:C1'[3_546]	1.01	1.19
4:L:469:U:C1'	4:L:680:U:OP2[3_546]	1.01	1.19
4:L:757:U:OP2	5:M:508:U:O4[3_556]	1.01	1.19
1:I:62:A:O5'	5:M:505:U:C1'[3_556]	1.02	1.18
1:I:64:A:C3'	5:M:502:U:C2[3_556]	1.02	1.18
1:I:64:A:O2'	5:M:502:U:O4'[3_556]	1.02	1.18
2:J:164:A:C4'	6:N:387:U:P[4_456]	1.02	1.18
3:K:143:A:C1'	5:M:389:U:O3'[4_556]	1.02	1.18
3:K:148:A:OP1	5:M:385:U:C5'[4_556]	1.02	1.18
1:I:70:A:N6	2:J:47:A:OP2[3_556]	1.03	1.17
2:J:43:A:C3'	4:L:760:U:O4'[3_546]	1.03	1.17
2:J:164:A:C4	6:N:387:U:C5[4_456]	1.03	1.17
2:J:169:A:C6	3:K:149:A:N6[4_456]	1.03	1.17
3:K:144:A:C2	5:M:390:U:O4[4_556]	1.03	1.17
5:M:390:U:O2'	6:N:389:U:O4[4_456]	1.03	1.17
1:I:62:A:C5	5:M:505:U:P[3_556]	1.04	1.16
1:I:67:A:C6	2:J:45:A:P[3_556]	1.04	1.16
1:I:143:A:O3'	4:L:472:U:C1'[3_556]	1.04	1.16
2:J:164:A:C3'	6:N:386:U:O3'[4_456]	1.04	1.16
2:J:167:A:O5'	6:N:384:U:P[4_456]	1.04	1.16
2:J:169:A:O4'	6:N:381:U:C2[4_456]	1.04	1.16
3:K:147:A:N1	5:M:386:U:O4[4_556]	1.04	1.16
3:K:149:A:C8	5:M:384:U:O4[4_556]	1.04	1.16
1:I:65:A:O5'	5:M:502:U:C6[3_556]	1.06	1.14
1:I:65:A:OP1	5:M:502:U:C4[3_556]	1.06	1.14
1:I:143:A:O3'	4:L:472:U:N1[3_556]	1.06	1.14
1:I:146:A:C4	1:I:356:A:C8[3_556]	1.06	1.14
2:J:47:A:C6	4:L:756:U:OP2[3_546]	1.06	1.14
2:J:48:A:C5'	4:L:754:U:N1[3_546]	1.06	1.14
2:J:168:A:OP2	6:N:383:U:C4'[4_456]	1.06	1.14
3:K:145:A:OP1	5:M:388:U:OP1[4_556]	1.06	1.14
3:K:147:A:C5	5:M:386:U:C4[4_556]	1.06	1.14
3:K:147:A:C5'	5:M:386:U:P[4_556]	1.06	1.14
4:L:756:U:O2'	5:M:508:U:O2[3_556]	1.06	1.14
1:I:59:A:P	2:J:41:A:P[3_556]	1.07	1.13
1:I:62:A:C2	5:M:504:U:O5'[3_556]	1.07	1.13
1:I:71:A:C6	2:J:47:A:OP1[3_556]	1.07	1.13
1:I:146:A:C1'	1:I:356:A:O5'[3_556]	1.07	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:44:A:N9	4:L:759:U:C6[3_546]	1.07	1.13
2:J:48:A:O4'	4:L:754:U:C3'[3_546]	1.07	1.13
2:J:48:A:P	4:L:754:U:C6[3_546]	1.07	1.13
2:J:170:A:OP1	3:K:151:A:C2'[4_456]	1.07	1.13
2:J:171:A:C6	3:K:149:A:O2'[4_456]	1.07	1.13
3:K:142:A:C6	5:M:390:U:C4'[4_556]	1.07	1.13
3:K:147:A:O3'	5:M:385:U:C3'[4_556]	1.07	1.13
4:L:756:U:OP1	5:M:507:U:N3[3_556]	1.07	1.13
5:M:391:U:C2	6:N:388:U:C1'[4_456]	1.07	1.13
2:J:44:A:OP1	4:L:760:U:N1[3_546]	1.08	1.12
2:J:44:A:C4	4:L:758:U:N1[3_546]	1.08	1.12
2:J:48:A:O5'	4:L:754:U:N1[3_546]	1.08	1.12
3:K:143:A:C8	5:M:389:U:O2'[4_556]	1.08	1.12
4:L:751:U:O2'	5:M:499:U:C5'[3_556]	1.08	1.12
1:I:64:A:C5'	5:M:502:U:O2[3_556]	1.09	1.11
1:I:142:A:C2'	4:L:472:U:OP2[3_556]	1.09	1.11
1:I:352:A:OP2	4:L:677:U:OP2[3_546]	1.09	1.11
2:J:43:A:C8	4:L:760:U:P[3_546]	1.09	1.11
2:J:45:A:C4	4:L:757:U:N1[3_546]	1.09	1.11
2:J:170:A:C8	3:K:150:A:C4[4_456]	1.09	1.11
3:K:144:A:OP2	5:M:388:U:O2'[4_556]	1.09	1.11
3:K:148:A:N7	5:M:385:U:C4[4_556]	1.09	1.11
1:I:59:A:P	2:J:40:A:O3'[3_556]	1.10	1.10
1:I:62:A:N9	5:M:504:U:C2'[3_556]	1.10	1.10
1:I:67:A:N6	2:J:45:A:OP2[3_556]	1.10	1.10
1:I:70:A:C5	2:J:46:A:C5'[3_556]	1.10	1.10
2:J:43:A:C5	4:L:759:U:O5'[3_546]	1.10	1.10
2:J:166:A:C6	6:N:385:U:O4[4_456]	1.10	1.10
2:J:242:A:P	3:K:16:A:N6[2_666]	1.10	1.10
3:K:149:A:O4'	5:M:383:U:C4[4_556]	1.10	1.10
3:K:149:A:C5'	5:M:383:U:C2[4_556]	1.10	1.10
4:L:751:U:C3'	5:M:499:U:C3'[3_556]	1.10	1.10
5:M:391:U:N3	6:N:388:U:C1'[4_456]	1.10	1.10
1:I:63:A:O5'	5:M:504:U:C2[3_556]	1.11	1.09
2:J:43:A:O3'	4:L:760:U:O4'[3_546]	1.11	1.09
2:J:46:A:C8	4:L:756:U:C2[3_546]	1.11	1.09
2:J:170:A:P	3:K:151:A:C1'[4_456]	1.11	1.09
3:K:143:A:N7	5:M:389:U:C2'[4_556]	1.11	1.09
3:K:149:A:OP2	5:M:384:U:N1[4_556]	1.11	1.09
4:L:469:U:C5	4:L:679:U:C4'[3_546]	1.11	1.09
5:M:391:U:OP1	6:N:390:U:C5[4_456]	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:391:U:C6	6:N:389:U:C6[4_456]	1.11	1.09
1:I:63:A:P	5:M:504:U:C2[3_556]	1.12	1.08
1:I:68:A:N1	2:J:45:A:C4'[3_556]	1.12	1.08
2:J:47:A:O3'	4:L:754:U:C2[3_546]	1.12	1.08
2:J:168:A:C6	3:K:148:A:N6[4_456]	1.12	1.08
2:J:169:A:C8	6:N:382:U:C4[4_456]	1.12	1.08
2:J:242:A:C3'	3:K:15:A:C6[2_666]	1.12	1.08
4:L:469:U:C4	4:L:679:U:N1[3_546]	1.12	1.08
1:I:62:A:C2'	5:M:504:U:C1'[3_556]	1.13	1.07
1:I:69:A:N1	2:J:46:A:O5'[3_556]	1.13	1.07
1:I:143:A:O4'	4:L:472:U:O5'[3_556]	1.13	1.07
2:J:46:A:C2	4:L:756:U:O4'[3_546]	1.13	1.07
2:J:167:A:O5'	6:N:384:U:OP2[4_456]	1.13	1.07
2:J:167:A:C6	6:N:384:U:O4[4_456]	1.13	1.07
2:J:168:A:N6	3:K:148:A:N1[4_456]	1.13	1.07
2:J:169:A:P	6:N:382:U:O4'[4_456]	1.13	1.07
3:K:147:A:OP2	5:M:386:U:C5'[4_556]	1.13	1.07
3:K:148:A:C5'	5:M:385:U:OP2[4_556]	1.13	1.07
4:L:752:U:O4'	5:M:499:U:O5'[3_556]	1.13	1.07
1:I:69:A:C6	2:J:46:A:OP2[3_556]	1.14	1.06
1:I:143:A:C8	4:L:471:U:C2'[3_556]	1.14	1.06
1:I:144:A:P	4:L:472:U:C1'[3_556]	1.14	1.06
2:J:164:A:C8	6:N:387:U:C6[4_456]	1.14	1.06
4:L:757:U:C5'	5:M:509:U:C2[3_556]	1.14	1.06
1:I:61:A:O3'	5:M:505:U:C2'[3_556]	1.15	1.05
1:I:70:A:C4	2:J:46:A:C5'[3_556]	1.15	1.05
2:J:47:A:N9	4:L:755:U:C6[3_546]	1.15	1.05
2:J:164:A:O5'	6:N:386:U:O2'[4_456]	1.15	1.05
4:L:752:U:C4'	5:M:499:U:O5'[3_556]	1.15	1.05
4:L:758:U:C5'	5:M:510:U:C2[3_556]	1.15	1.05
5:M:309:U:C4	6:N:517:U:OP1[2_666]	1.15	1.05
5:M:390:U:O2	6:N:388:U:N3[4_456]	1.15	1.05
1:I:61:A:C3'	5:M:505:U:C3'[3_556]	1.16	1.04
1:I:62:A:C1'	5:M:504:U:O2'[3_556]	1.16	1.04
1:I:63:A:O3'	5:M:503:U:C2[3_556]	1.16	1.04
1:I:64:A:N9	5:M:503:U:O5'[3_556]	1.16	1.04
1:I:70:A:C2	2:J:46:A:C2'[3_556]	1.16	1.04
1:I:150:A:OP2	4:L:465:U:O3'[3_556]	1.16	1.04
2:J:44:A:C8	4:L:759:U:C5[3_546]	1.16	1.04
2:J:47:A:C2'	4:L:754:U:O2[3_546]	1.16	1.04
2:J:164:A:C8	6:N:387:U:N1[4_456]	1.16	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:169:A:N6	3:K:149:A:C5[4_456]	1.16	1.04
2:J:244:A:C4	6:N:517:U:O3'[2_666]	1.16	1.04
3:K:148:A:C8	5:M:385:U:C5[4_556]	1.16	1.04
1:I:61:A:O3'	5:M:505:U:C3'[3_556]	1.17	1.03
1:I:64:A:O3'	5:M:502:U:C6[3_556]	1.17	1.03
2:J:43:A:N6	4:L:759:U:P[3_546]	1.17	1.03
2:J:46:A:C4	4:L:756:U:C6[3_546]	1.17	1.03
2:J:47:A:O3'	4:L:754:U:N3[3_546]	1.17	1.03
2:J:48:A:C1'	4:L:754:U:C3'[3_546]	1.17	1.03
2:J:169:A:O3'	3:K:151:A:C4[4_456]	1.17	1.03
2:J:242:A:C4	6:N:517:U:O4[2_666]	1.17	1.03
2:J:243:A:N7	6:N:517:U:N1[2_666]	1.17	1.03
3:K:12:A:C4'	5:M:314:U:C5[2_664]	1.17	1.03
3:K:144:A:C5'	5:M:389:U:OP2[4_556]	1.17	1.03
3:K:144:A:P	5:M:388:U:O3'[4_556]	1.17	1.03
3:K:148:A:P	5:M:385:U:C5'[4_556]	1.17	1.03
4:L:469:U:C6	4:L:679:U:O3'[3_546]	1.17	1.03
1:I:63:A:O3'	5:M:503:U:O2[3_556]	1.18	1.02
1:I:64:A:C1'	5:M:502:U:O2'[3_556]	1.18	1.02
1:I:64:A:C1'	5:M:502:U:C2'[3_556]	1.18	1.02
1:I:65:A:C3'	5:M:502:U:P[3_556]	1.18	1.02
1:I:65:A:P	5:M:502:U:C5[3_556]	1.18	1.02
1:I:65:A:O4'	5:M:502:U:C5'[3_556]	1.18	1.02
1:I:70:A:C6	2:J:46:A:C3'[3_556]	1.18	1.02
1:I:143:A:C8	4:L:471:U:C3'[3_556]	1.18	1.02
2:J:43:A:C1'	4:L:759:U:O2'[3_546]	1.18	1.02
2:J:45:A:C8	4:L:758:U:C5[3_546]	1.18	1.02
2:J:48:A:C4'	4:L:754:U:O4'[3_546]	1.18	1.02
2:J:163:A:N1	6:N:387:U:O2[4_456]	1.18	1.02
2:J:164:A:C5	6:N:387:U:C2[4_456]	1.18	1.02
2:J:168:A:OP2	6:N:383:U:C3'[4_456]	1.18	1.02
2:J:243:A:N3	6:N:518:U:C6[2_666]	1.18	1.02
3:K:142:A:C2	5:M:390:U:O5'[4_556]	1.18	1.02
4:L:469:U:C5	4:L:679:U:O4'[3_546]	1.18	1.02
1:I:63:A:C2	5:M:503:U:O3'[3_556]	1.19	1.01
1:I:64:A:OP1	2:J:51:A:N1[3_556]	1.19	1.01
1:I:150:A:P	4:L:465:U:O2'[3_556]	1.19	1.01
2:J:48:A:N9	4:L:755:U:O5'[3_546]	1.19	1.01
2:J:48:A:O3'	4:L:754:U:C5'[3_546]	1.19	1.01
2:J:164:A:C4	6:N:387:U:C6[4_456]	1.19	1.01
2:J:242:A:C4'	3:K:15:A:N7[2_666]	1.19	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:143:A:C5	5:M:389:U:C2'[4_556]	1.19	1.01
3:K:144:A:N7	5:M:389:U:N1[4_556]	1.19	1.01
3:K:149:A:C1'	5:M:383:U:N3[4_556]	1.19	1.01
4:L:751:U:O2'	5:M:499:U:O5'[3_556]	1.19	1.01
5:M:391:U:C2'	6:N:389:U:P[4_456]	1.19	1.01
1:I:69:A:C2	2:J:45:A:O2'[3_556]	1.20	1.00
1:I:150:A:P	4:L:465:U:C2'[3_556]	1.20	1.00
2:J:43:A:O3'	4:L:760:U:C1'[3_546]	1.20	1.00
2:J:47:A:C8	4:L:755:U:C2[3_546]	1.20	1.00
2:J:48:A:C4	4:L:755:U:P[3_546]	1.20	1.00
2:J:164:A:C5	6:N:387:U:N3[4_456]	1.20	1.00
2:J:168:A:N6	3:K:148:A:C6[4_456]	1.20	1.00
2:J:242:A:OP2	3:K:16:A:N6[2_666]	1.20	1.00
2:J:244:A:N7	6:N:517:U:C3'[2_666]	1.20	1.00
1:I:63:A:C2'	5:M:503:U:C1'[3_556]	1.21	0.99
1:I:67:A:N1	2:J:44:A:O3'[3_556]	1.21	0.99
1:I:68:A:N1	2:J:45:A:C5'[3_556]	1.21	0.99
2:J:47:A:C2'	4:L:754:U:C2[3_546]	1.21	0.99
2:J:48:A:OP2	4:L:754:U:C5[3_546]	1.21	0.99
2:J:48:A:C3'	4:L:754:U:C5'[3_546]	1.21	0.99
2:J:171:A:N9	3:K:150:A:O5'[4_456]	1.21	0.99
2:J:243:A:N9	6:N:517:U:O2[2_666]	1.21	0.99
1:I:62:A:C8	5:M:505:U:P[3_556]	1.22	0.98
1:I:66:A:P	5:M:502:U:P[3_556]	1.22	0.98
1:I:70:A:C2	2:J:46:A:C3'[3_556]	1.22	0.98
2:J:45:A:N3	4:L:757:U:N1[3_546]	1.22	0.98
2:J:165:A:OP2	6:N:386:U:C5'[4_456]	1.22	0.98
2:J:171:A:C4	3:K:150:A:P[4_456]	1.22	0.98
2:J:244:A:C5	6:N:517:U:C3'[2_666]	1.22	0.98
3:K:144:A:O5'	5:M:389:U:OP2[4_556]	1.22	0.98
4:L:469:U:N1	4:L:679:U:O3'[3_546]	1.22	0.98
4:L:757:U:P	5:M:508:U:N3[3_556]	1.22	0.98
4:L:757:U:C5'	5:M:509:U:N1[3_556]	1.22	0.98
1:I:63:A:C4'	5:M:503:U:O2[3_556]	1.23	0.97
1:I:65:A:C4'	5:M:502:U:C5'[3_556]	1.23	0.97
1:I:143:A:N9	4:L:471:U:O2'[3_556]	1.23	0.97
1:I:143:A:N6	4:L:470:U:O2'[3_556]	1.23	0.97
1:I:352:A:C4'	4:L:676:U:OP2[3_546]	1.23	0.97
2:J:43:A:C4'	4:L:760:U:O4'[3_546]	1.23	0.97
2:J:45:A:C2	4:L:757:U:C6[3_546]	1.23	0.97
2:J:48:A:C4	4:L:755:U:OP1[3_546]	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:469:U:C5	4:L:679:U:C3'[3_546]	1.23	0.97
4:L:469:U:N1	4:L:679:U:C3'[3_546]	1.23	0.97
4:L:751:U:C4'	5:M:499:U:C4'[3_556]	1.23	0.97
1:I:59:A:OP1	2:J:41:A:P[3_556]	1.24	0.96
1:I:143:A:C8	4:L:471:U:C1'[3_556]	1.24	0.96
1:I:144:A:OP2	4:L:472:U:N1[3_556]	1.24	0.96
1:I:352:A:P	4:L:677:U:OP2[3_546]	1.24	0.96
2:J:45:A:N7	4:L:758:U:C5[3_546]	1.24	0.96
2:J:47:A:C8	4:L:755:U:N1[3_546]	1.24	0.96
2:J:48:A:C4'	4:L:754:U:C1'[3_546]	1.24	0.96
2:J:48:A:O3'	4:L:754:U:C4'[3_546]	1.24	0.96
2:J:169:A:C1'	6:N:381:U:N3[4_456]	1.24	0.96
2:J:169:A:O3'	3:K:151:A:N3[4_456]	1.24	0.96
1:I:62:A:C2'	5:M:504:U:N1[3_556]	1.25	0.95
1:I:65:A:C4'	5:M:502:U:O5'[3_556]	1.25	0.95
1:I:68:A:C6	2:J:45:A:O5'[3_556]	1.25	0.95
1:I:71:A:C6	2:J:47:A:P[3_556]	1.25	0.95
1:I:143:A:N9	4:L:471:U:C1'[3_556]	1.25	0.95
1:I:146:A:C3'	1:I:356:A:P[3_556]	1.25	0.95
1:I:146:A:N9	1:I:356:A:O5'[3_556]	1.25	0.95
1:I:351:A:O3'	4:L:677:U:P[3_546]	1.25	0.95
1:I:356:A:C2	4:L:680:U:N3[3_546]	1.25	0.95
1:I:357:A:N6	4:L:679:U:O2[3_546]	1.25	0.95
2:J:42:A:C1'	4:L:760:U:OP1[3_546]	1.25	0.95
2:J:47:A:N1	4:L:756:U:OP2[3_546]	1.25	0.95
2:J:48:A:C4'	4:L:754:U:C4'[3_546]	1.25	0.95
3:K:12:A:C5'	5:M:314:U:C4[2_664]	1.25	0.95
4:L:752:U:N1	5:M:499:U:OP1[3_556]	1.25	0.95
4:L:758:U:OP2	5:M:509:U:O4[3_556]	1.25	0.95
1:I:352:A:P	4:L:677:U:P[3_546]	1.26	0.94
2:J:171:A:C8	3:K:150:A:O5'[4_456]	1.26	0.94
3:K:12:A:N3	5:M:313:U:C6[2_664]	1.26	0.94
3:K:148:A:C5	5:M:385:U:C4[4_556]	1.26	0.94
3:K:149:A:C1'	5:M:383:U:C4[4_556]	1.26	0.94
4:L:758:U:O5'	5:M:510:U:C4[3_556]	1.26	0.94
4:L:758:U:O5'	5:M:510:U:N3[3_556]	1.26	0.94
5:M:312:U:C4'	6:N:519:U:C2[2_666]	1.26	0.94
1:I:59:A:OP1	2:J:41:A:O5'[3_556]	1.27	0.93
1:I:62:A:N7	5:M:505:U:OP1[3_556]	1.27	0.93
1:I:64:A:C4'	5:M:502:U:C2[3_556]	1.27	0.93
1:I:70:A:N1	2:J:46:A:C2'[3_556]	1.27	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:45:A:C1'	4:L:757:U:C2[3_546]	1.27	0.93
2:J:167:A:N1	6:N:384:U:O4[4_456]	1.27	0.93
5:M:391:U:C4	6:N:388:U:O2[4_456]	1.27	0.93
2:J:243:A:N7	6:N:517:U:N3[2_666]	1.28	0.92
2:J:244:A:N7	6:N:517:U:C2'[2_666]	1.28	0.92
3:K:12:A:N7	5:M:313:U:O4[2_664]	1.28	0.92
3:K:144:A:O5'	5:M:388:U:O3'[4_556]	1.28	0.92
3:K:147:A:C6	5:M:386:U:C4[4_556]	1.28	0.92
5:M:309:U:O4	6:N:517:U:OP1[2_666]	1.28	0.92
5:M:390:U:C2'	6:N:389:U:C4[4_456]	1.28	0.92
5:M:391:U:O2'	6:N:389:U:P[4_456]	1.28	0.92
1:I:61:A:O5'	5:M:506:U:OP1[3_556]	1.29	0.91
1:I:62:A:O4'	5:M:504:U:O2'[3_556]	1.29	0.91
1:I:63:A:O5'	5:M:504:U:N3[3_556]	1.29	0.91
1:I:63:A:C4	5:M:503:U:C3'[3_556]	1.29	0.91
1:I:64:A:O3'	5:M:502:U:C2[3_556]	1.29	0.91
1:I:65:A:C3'	5:M:501:U:O3'[3_556]	1.29	0.91
1:I:141:A:O4'	1:I:348:A:OP1[3_556]	1.29	0.91
1:I:352:A:OP1	4:L:676:U:C2'[3_546]	1.29	0.91
1:I:356:A:N3	4:L:680:U:N3[3_546]	1.29	0.91
2:J:43:A:C4'	4:L:760:U:C5'[3_546]	1.29	0.91
2:J:47:A:N3	4:L:755:U:C4'[3_546]	1.29	0.91
2:J:168:A:OP1	6:N:383:U:O5'[4_456]	1.29	0.91
4:L:757:U:O5'	5:M:509:U:C4[3_556]	1.29	0.91
5:M:391:U:C2'	6:N:389:U:OP2[4_456]	1.29	0.91
5:M:391:U:P	6:N:390:U:C4[4_456]	1.29	0.91
1:I:63:A:C4	5:M:504:U:P[3_556]	1.30	0.90
1:I:146:A:O5'	1:I:355:A:O3'[3_556]	1.30	0.90
1:I:146:A:O3'	1:I:356:A:OP1[3_556]	1.30	0.90
2:J:43:A:C2'	4:L:759:U:C1'[3_546]	1.30	0.90
2:J:170:A:C6	3:K:150:A:C8[4_456]	1.30	0.90
3:K:12:A:N3	5:M:313:U:C5[2_664]	1.30	0.90
4:L:469:U:O4	4:L:679:U:C1'[3_546]	1.30	0.90
4:L:752:U:C1'	5:M:499:U:P[3_556]	1.30	0.90
1:I:62:A:C3'	5:M:504:U:O2[3_556]	1.31	0.89
1:I:67:A:C4	2:J:45:A:OP1[3_556]	1.31	0.89
2:J:49:A:O5'	4:L:754:U:C5'[3_546]	1.31	0.89
2:J:165:A:P	6:N:386:U:C5'[4_456]	1.31	0.89
2:J:169:A:C4	3:K:150:A:C6[4_456]	1.31	0.89
3:K:149:A:C4'	5:M:383:U:O2[4_556]	1.31	0.89
3:K:149:A:C4'	5:M:383:U:N3[4_556]	1.31	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:756:U:OP1	5:M:507:U:C2[3_556]	1.31	0.89
4:L:758:U:P	5:M:510:U:C4[3_556]	1.31	0.89
1:I:62:A:N9	5:M:504:U:O3'[3_556]	1.32	0.88
1:I:142:A:N3	4:L:471:U:O3'[3_556]	1.32	0.88
1:I:355:A:N6	4:L:679:U:O4[3_546]	1.32	0.88
2:J:48:A:C4'	4:L:754:U:C2'[3_546]	1.32	0.88
2:J:48:A:OP1	4:L:754:U:C5[3_546]	1.32	0.88
2:J:165:A:O5'	6:N:386:U:O5'[4_456]	1.32	0.88
2:J:169:A:C4'	6:N:381:U:C2[4_456]	1.32	0.88
2:J:169:A:O2'	3:K:151:A:N1[4_456]	1.32	0.88
2:J:171:A:N3	3:K:149:A:O3'[4_456]	1.32	0.88
3:K:12:A:N9	5:M:313:U:C5[2_664]	1.32	0.88
3:K:12:A:C5'	5:M:314:U:O4[2_664]	1.32	0.88
4:L:470:U:O4	4:L:679:U:C4[3_546]	1.32	0.88
5:M:391:U:C2'	6:N:389:U:O5'[4_456]	1.32	0.88
1:I:65:A:C5'	5:M:502:U:C6[3_556]	1.33	0.87
1:I:69:A:C2	2:J:45:A:C2'[3_556]	1.33	0.87
1:I:146:A:N6	1:I:355:A:C6[3_556]	1.33	0.87
2:J:43:A:N1	4:L:759:U:P[3_546]	1.33	0.87
2:J:48:A:C2'	4:L:754:U:O3'[3_546]	1.33	0.87
2:J:170:A:C4	3:K:150:A:C8[4_456]	1.33	0.87
3:K:12:A:C8	5:M:313:U:C4[2_664]	1.33	0.87
5:M:312:U:OP2	6:N:520:U:C4[2_666]	1.33	0.87
1:I:59:A:OP1	2:J:40:A:O3'[3_556]	1.34	0.86
1:I:62:A:C4'	5:M:505:U:O4'[3_556]	1.34	0.86
1:I:62:A:O5'	5:M:505:U:C2'[3_556]	1.34	0.86
1:I:70:A:C2	2:J:46:A:C4'[3_556]	1.34	0.86
1:I:143:A:O2'	4:L:472:U:O4'[3_556]	1.34	0.86
2:J:43:A:N1	4:L:759:U:O5'[3_546]	1.34	0.86
2:J:43:A:C2	4:L:758:U:C3'[3_546]	1.34	0.86
2:J:45:A:C1'	4:L:757:U:O2[3_546]	1.34	0.86
2:J:46:A:C5	4:L:756:U:C6[3_546]	1.34	0.86
2:J:46:A:N9	4:L:756:U:N3[3_546]	1.34	0.86
2:J:48:A:C8	4:L:755:U:OP2[3_546]	1.34	0.86
2:J:167:A:C4'	6:N:384:U:OP2[4_456]	1.34	0.86
2:J:168:A:P	6:N:383:U:C5'[4_456]	1.34	0.86
2:J:171:A:C8	3:K:150:A:C5'[4_456]	1.34	0.86
3:K:144:A:C5'	5:M:389:U:P[4_556]	1.34	0.86
3:K:147:A:OP2	5:M:386:U:C4'[4_556]	1.34	0.86
3:K:148:A:OP2	5:M:385:U:O4'[4_556]	1.34	0.86
5:M:390:U:N3	6:N:388:U:N3[4_456]	1.34	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:391:U:OP1	6:N:390:U:C4[4_456]	1.34	0.86
1:I:59:A:O5'	2:J:41:A:P[3_556]	1.35	0.85
1:I:62:A:P	5:M:505:U:C3'[3_556]	1.35	0.85
1:I:63:A:C1'	5:M:503:U:C2'[3_556]	1.35	0.85
1:I:65:A:P	5:M:502:U:C6[3_556]	1.35	0.85
1:I:65:A:N7	5:M:503:U:OP2[3_556]	1.35	0.85
1:I:65:A:C8	5:M:503:U:OP2[3_556]	1.35	0.85
2:J:47:A:C3'	4:L:754:U:O2[3_546]	1.35	0.85
2:J:47:A:C1'	4:L:755:U:N1[3_546]	1.35	0.85
2:J:49:A:OP2	4:L:754:U:P[3_546]	1.35	0.85
2:J:164:A:C5	6:N:387:U:N1[4_456]	1.35	0.85
2:J:240:A:C5	3:K:12:A:OP2[2_666]	1.35	0.85
2:J:240:A:C6	3:K:12:A:OP2[2_666]	1.35	0.85
3:K:13:A:C5'	5:M:313:U:O2'[2_664]	1.35	0.85
3:K:13:A:O4'	5:M:313:U:O2'[2_664]	1.35	0.85
3:K:13:A:C5	5:M:312:U:O2[2_664]	1.35	0.85
3:K:143:A:N1	5:M:390:U:N1[4_556]	1.35	0.85
3:K:144:A:C4'	5:M:389:U:OP2[4_556]	1.35	0.85
3:K:146:A:OP1	5:M:387:U:OP1[4_556]	1.35	0.85
3:K:148:A:N7	5:M:385:U:N3[4_556]	1.35	0.85
4:L:469:U:C6	4:L:679:U:C4'[3_546]	1.35	0.85
4:L:758:U:OP1	5:M:510:U:O4[3_556]	1.35	0.85
5:M:391:U:C5	6:N:388:U:C2[4_456]	1.35	0.85
1:I:61:A:O3'	5:M:505:U:O2'[3_556]	1.36	0.84
1:I:141:A:C1'	1:I:348:A:OP1[3_556]	1.36	0.84
2:J:164:A:N1	6:N:387:U:N3[4_456]	1.36	0.84
2:J:164:A:N1	6:N:387:U:C4[4_456]	1.36	0.84
2:J:164:A:N1	6:N:387:U:O4[4_456]	1.36	0.84
2:J:169:A:C8	6:N:382:U:N3[4_456]	1.36	0.84
2:J:170:A:N7	3:K:150:A:N9[4_456]	1.36	0.84
2:J:236:A:OP1	6:N:521:U:O2'[2_666]	1.36	0.84
3:K:13:A:C6	5:M:312:U:O2[2_664]	1.36	0.84
3:K:143:A:C8	5:M:389:U:C2'[4_556]	1.36	0.84
3:K:146:A:O5'	5:M:387:U:OP2[4_556]	1.36	0.84
4:L:751:U:O3'	5:M:499:U:C4'[3_556]	1.36	0.84
4:L:752:U:C5'	5:M:499:U:O5'[3_556]	1.36	0.84
5:M:310:U:O4	6:N:517:U:OP2[2_666]	1.36	0.84
1:I:59:A:P	2:J:41:A:O5'[3_556]	1.37	0.83
1:I:62:A:O5'	5:M:505:U:O4'[3_556]	1.37	0.83
1:I:63:A:OP2	5:M:504:U:N3[3_556]	1.37	0.83
1:I:64:A:C2	5:M:503:U:P[3_556]	1.37	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:66:A:OP2	5:M:502:U:OP2[3_556]	1.37	0.83
2:J:43:A:C4	4:L:759:U:C4'[3_546]	1.37	0.83
2:J:46:A:C5	4:L:756:U:N1[3_546]	1.37	0.83
2:J:164:A:C3'	6:N:386:U:C3'[4_456]	1.37	0.83
2:J:168:A:O5'	6:N:383:U:O5'[4_456]	1.37	0.83
2:J:240:A:C6	3:K:12:A:P[2_666]	1.37	0.83
2:J:244:A:C6	6:N:517:U:C5'[2_666]	1.37	0.83
4:L:752:U:C4'	5:M:499:U:P[3_556]	1.37	0.83
4:L:756:U:P	5:M:507:U:N3[3_556]	1.37	0.83
4:L:757:U:C5'	5:M:509:U:N3[3_556]	1.37	0.83
4:L:757:U:OP1	5:M:509:U:C5[3_556]	1.37	0.83
5:M:390:U:C2	6:N:388:U:C4[4_456]	1.37	0.83
1:I:61:A:C2'	5:M:505:U:C5'[3_556]	1.38	0.82
1:I:62:A:C4	5:M:504:U:O3'[3_556]	1.38	0.82
1:I:149:A:C2'	4:L:466:U:O5'[3_556]	1.38	0.82
2:J:42:A:N3	4:L:759:U:O3'[3_546]	1.38	0.82
2:J:43:A:N9	4:L:759:U:C2'[3_546]	1.38	0.82
2:J:46:A:N1	4:L:756:U:O5'[3_546]	1.38	0.82
2:J:46:A:N3	4:L:756:U:N1[3_546]	1.38	0.82
2:J:48:A:P	4:L:754:U:C4[3_546]	1.38	0.82
2:J:242:A:O2'	3:K:14:A:C2[2_666]	1.38	0.82
3:K:13:A:O4'	5:M:313:U:C2'[2_664]	1.38	0.82
3:K:144:A:C6	5:M:389:U:C4[4_556]	1.38	0.82
3:K:149:A:OP2	5:M:384:U:O4'[4_556]	1.38	0.82
4:L:757:U:O3'	5:M:510:U:C5[3_556]	1.38	0.82
5:M:312:U:O4'	6:N:519:U:O2[2_666]	1.38	0.82
5:M:391:U:C2	6:N:388:U:O2'[4_456]	1.38	0.82
1:I:63:A:O5'	5:M:504:U:N1[3_556]	1.39	0.81
1:I:63:A:C4	5:M:503:U:O3'[3_556]	1.39	0.81
1:I:145:A:C2	1:I:356:A:C1'[3_556]	1.39	0.81
1:I:352:A:C5'	4:L:676:U:O5'[3_546]	1.39	0.81
2:J:43:A:O4'	4:L:759:U:O2'[3_546]	1.39	0.81
2:J:43:A:C2'	4:L:759:U:C2'[3_546]	1.39	0.81
2:J:45:A:C4	4:L:757:U:C5[3_546]	1.39	0.81
2:J:171:A:N3	3:K:150:A:OP1[4_456]	1.39	0.81
2:J:242:A:OP1	3:K:16:A:N6[2_666]	1.39	0.81
2:J:242:A:C3'	3:K:15:A:C4[2_666]	1.39	0.81
3:K:18:A:O4'	5:M:306:U:OP1[2_664]	1.39	0.81
3:K:148:A:C8	5:M:385:U:C4[4_556]	1.39	0.81
3:K:149:A:O4'	5:M:383:U:C2[4_556]	1.39	0.81
4:L:752:U:OP2	5:M:499:U:O3'[3_556]	1.39	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:757:U:O3'	5:M:510:U:C4[3_556]	1.39	0.81
5:M:391:U:O2	6:N:388:U:C2'[4_456]	1.39	0.81
1:I:64:A:N3	5:M:503:U:OP1[3_556]	1.40	0.80
1:I:66:A:OP1	5:M:502:U:OP2[3_556]	1.40	0.80
1:I:71:A:C5	2:J:46:A:O3'[3_556]	1.40	0.80
1:I:143:A:O3'	4:L:472:U:O4'[3_556]	1.40	0.80
1:I:143:A:C3'	4:L:472:U:C6[3_556]	1.40	0.80
1:I:146:A:C4'	1:I:356:A:OP1[3_556]	1.40	0.80
2:J:48:A:C5'	4:L:754:U:O4'[3_546]	1.40	0.80
2:J:167:A:OP2	6:N:384:U:C5'[4_456]	1.40	0.80
2:J:169:A:O2'	3:K:151:A:N6[4_456]	1.40	0.80
2:J:171:A:P	3:K:151:A:OP2[4_456]	1.40	0.80
3:K:13:A:O4'	5:M:313:U:C1'[2_664]	1.40	0.80
3:K:143:A:C6	5:M:390:U:C6[4_556]	1.40	0.80
3:K:147:A:C3'	5:M:385:U:C3'[4_556]	1.40	0.80
3:K:149:A:C1'	5:M:383:U:O4[4_556]	1.40	0.80
4:L:469:U:O4	4:L:679:U:C2[3_546]	1.40	0.80
5:M:391:U:O2	6:N:388:U:C4'[4_456]	1.40	0.80
1:I:65:A:C1'	5:M:502:U:C5'[3_556]	1.41	0.79
1:I:71:A:N1	2:J:47:A:O5'[3_556]	1.41	0.79
2:J:44:A:C1'	4:L:758:U:C2[3_546]	1.41	0.79
2:J:44:A:C2'	4:L:758:U:O2[3_546]	1.41	0.79
2:J:47:A:C4'	4:L:754:U:O2[3_546]	1.41	0.79
2:J:164:A:C2	6:N:387:U:O4[4_456]	1.41	0.79
2:J:164:A:C2	6:N:387:U:C4[4_456]	1.41	0.79
2:J:164:A:C4'	6:N:386:U:O3'[4_456]	1.41	0.79
2:J:168:A:N7	6:N:383:U:C4[4_456]	1.41	0.79
2:J:169:A:C5	3:K:149:A:N6[4_456]	1.41	0.79
2:J:169:A:N7	6:N:382:U:N3[4_456]	1.41	0.79
2:J:171:A:C4	3:K:150:A:O5'[4_456]	1.41	0.79
3:K:148:A:C2'	5:M:384:U:C5[4_556]	1.41	0.79
4:L:751:U:C2'	5:M:499:U:C4'[3_556]	1.41	0.79
5:M:309:U:N3	6:N:517:U:OP1[2_666]	1.41	0.79
5:M:390:U:C3'	6:N:389:U:N3[4_456]	1.41	0.79
1:I:61:A:C3'	5:M:505:U:C4'[3_556]	1.42	0.78
1:I:62:A:C4	5:M:504:U:C4'[3_556]	1.42	0.78
1:I:146:A:N6	1:I:355:A:N1[3_556]	1.42	0.78
2:J:43:A:N1	4:L:758:U:O3'[3_546]	1.42	0.78
2:J:44:A:N9	4:L:758:U:C2[3_546]	1.42	0.78
2:J:46:A:C4	4:L:756:U:C2[3_546]	1.42	0.78
2:J:166:A:O5'	6:N:385:U:OP2[4_456]	1.42	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:N6	3:K:149:A:O2'[4_456]	1.42	0.78
3:K:148:A:OP2	5:M:385:U:C3'[4_556]	1.42	0.78
4:L:756:U:C3'	5:M:508:U:C2[3_556]	1.42	0.78
4:L:757:U:OP2	5:M:508:U:C4[3_556]	1.42	0.78
5:M:391:U:OP2	6:N:389:U:O2[4_456]	1.42	0.78
1:I:71:A:C2	2:J:47:A:C5'[3_556]	1.43	0.77
1:I:146:A:C6	1:I:356:A:C8[3_556]	1.43	0.77
2:J:45:A:C1'	4:L:757:U:N3[3_546]	1.43	0.77
2:J:45:A:C5	4:L:757:U:C5[3_546]	1.43	0.77
2:J:46:A:N3	4:L:756:U:O4'[3_546]	1.43	0.77
2:J:46:A:N9	4:L:756:U:N1[3_546]	1.43	0.77
2:J:48:A:N7	4:L:755:U:OP2[3_546]	1.43	0.77
2:J:168:A:O3'	6:N:382:U:C1'[4_456]	1.43	0.77
2:J:168:A:O3'	6:N:382:U:O4'[4_456]	1.43	0.77
2:J:170:A:C5	3:K:150:A:N9[4_456]	1.43	0.77
2:J:170:A:C8	3:K:150:A:C5[4_456]	1.43	0.77
2:J:243:A:OP2	3:K:15:A:C2[2_666]	1.43	0.77
2:J:244:A:C5	6:N:517:U:C4'[2_666]	1.43	0.77
3:K:143:A:C2	5:M:390:U:C6[4_556]	1.43	0.77
5:M:312:U:OP1	6:N:520:U:C6[2_666]	1.43	0.77
1:I:62:A:OP1	5:M:505:U:C2'[3_556]	1.44	0.76
1:I:64:A:N3	5:M:502:U:O3'[3_556]	1.44	0.76
2:J:43:A:O4'	4:L:760:U:O5'[3_546]	1.44	0.76
2:J:47:A:N6	4:L:756:U:OP2[3_546]	1.44	0.76
2:J:163:A:C6	6:N:387:U:O2[4_456]	1.44	0.76
2:J:163:A:N3	6:N:387:U:O2'[4_456]	1.44	0.76
2:J:164:A:C6	6:N:387:U:C4[4_456]	1.44	0.76
2:J:171:A:C2	3:K:149:A:O3'[4_456]	1.44	0.76
2:J:242:A:C4'	3:K:15:A:C6[2_666]	1.44	0.76
2:J:243:A:C8	6:N:517:U:N3[2_666]	1.44	0.76
3:K:142:A:N3	5:M:390:U:C5'[4_556]	1.44	0.76
3:K:147:A:C5	5:M:386:U:O4[4_556]	1.44	0.76
3:K:148:A:O5'	5:M:385:U:O5'[4_556]	1.44	0.76
4:L:757:U:C4'	5:M:509:U:N3[3_556]	1.44	0.76
5:M:309:U:O4	6:N:517:U:P[2_666]	1.44	0.76
1:I:62:A:OP2	5:M:506:U:OP2[3_556]	1.45	0.75
1:I:62:A:C5	5:M:505:U:OP2[3_556]	1.45	0.75
1:I:63:A:C5	5:M:504:U:P[3_556]	1.45	0.75
1:I:65:A:O3'	5:M:501:U:C3'[3_556]	1.45	0.75
1:I:67:A:C2	2:J:45:A:P[3_556]	1.45	0.75
1:I:143:A:C4	4:L:471:U:O4'[3_556]	1.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:143:A:N7	4:L:471:U:C4'[3_556]	1.45	0.75
2:J:47:A:N9	4:L:755:U:C1'[3_546]	1.45	0.75
2:J:48:A:C4'	4:L:754:U:C3'[3_546]	1.45	0.75
2:J:165:A:P	6:N:386:U:O5'[4_456]	1.45	0.75
2:J:165:A:C6	6:N:386:U:O4[4_456]	1.45	0.75
2:J:166:A:OP1	6:N:385:U:OP1[4_456]	1.45	0.75
2:J:168:A:C5	6:N:383:U:C4[4_456]	1.45	0.75
2:J:169:A:P	6:N:382:U:C1'[4_456]	1.45	0.75
3:K:144:A:N6	5:M:389:U:C2[4_556]	1.45	0.75
4:L:752:U:O4'	5:M:499:U:OP1[3_556]	1.45	0.75
4:L:758:U:P	5:M:510:U:O4[3_556]	1.45	0.75
5:M:391:U:O2	6:N:388:U:C3'[4_456]	1.45	0.75
1:I:61:A:C5'	5:M:506:U:OP1[3_556]	1.46	0.74
1:I:62:A:OP2	5:M:506:U:P[3_556]	1.46	0.74
1:I:63:A:OP2	5:M:505:U:C4[3_556]	1.46	0.74
1:I:63:A:OP2	5:M:505:U:C5[3_556]	1.46	0.74
2:J:44:A:C4	4:L:758:U:C6[3_546]	1.46	0.74
2:J:45:A:C8	4:L:758:U:O4[3_546]	1.46	0.74
2:J:46:A:N3	4:L:756:U:C1'[3_546]	1.46	0.74
2:J:47:A:N3	4:L:755:U:O5'[3_546]	1.46	0.74
2:J:164:A:O4'	6:N:387:U:C5'[4_456]	1.46	0.74
2:J:240:A:C5	3:K:12:A:P[2_666]	1.46	0.74
3:K:144:A:C5	5:M:389:U:C4[4_556]	1.46	0.74
3:K:147:A:P	5:M:386:U:O5'[4_556]	1.46	0.74
3:K:149:A:P	5:M:384:U:O4'[4_556]	1.46	0.74
4:L:752:U:O2'	5:M:499:U:OP2[3_556]	1.46	0.74
5:M:391:U:OP2	6:N:390:U:C5[4_456]	1.46	0.74
5:M:391:U:OP2	6:N:389:U:C2[4_456]	1.46	0.74
1:I:62:A:C1'	5:M:504:U:C1'[3_556]	1.47	0.73
1:I:68:A:N1	2:J:45:A:O5'[3_556]	1.47	0.73
1:I:146:A:O4'	1:I:356:A:O5'[3_556]	1.47	0.73
2:J:43:A:N3	4:L:759:U:C4'[3_546]	1.47	0.73
2:J:44:A:OP2	4:L:760:U:C4[3_546]	1.47	0.73
2:J:47:A:C2	4:L:755:U:O5'[3_546]	1.47	0.73
2:J:164:A:C2'	6:N:387:U:OP2[4_456]	1.47	0.73
2:J:169:A:C8	6:N:382:U:O4[4_456]	1.47	0.73
2:J:244:A:N7	6:N:517:U:C4'[2_666]	1.47	0.73
3:K:12:A:C5'	5:M:314:U:N3[2_664]	1.47	0.73
3:K:148:A:OP1	5:M:385:U:O5'[4_556]	1.47	0.73
1:I:67:A:C5	2:J:45:A:OP1[3_556]	1.48	0.72
1:I:144:A:OP1	4:L:472:U:O2'[3_556]	1.48	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:150:A:OP2	4:L:465:U:C2'[3_556]	1.48	0.72
2:J:48:A:C1'	4:L:755:U:P[3_546]	1.48	0.72
2:J:49:A:P	4:L:754:U:O5'[3_546]	1.48	0.72
2:J:167:A:C5	6:N:384:U:C4[4_456]	1.48	0.72
2:J:171:A:N1	3:K:149:A:O2'[4_456]	1.48	0.72
3:K:12:A:C4'	5:M:314:U:O4[2_664]	1.48	0.72
3:K:149:A:N7	5:M:384:U:O4[4_556]	1.48	0.72
4:L:469:U:C5	4:L:679:U:C1'[3_546]	1.48	0.72
4:L:752:U:P	5:M:499:U:O3'[3_556]	1.48	0.72
4:L:756:U:OP1	5:M:507:U:C4[3_556]	1.48	0.72
5:M:390:U:O3'	6:N:390:U:C4[4_456]	1.48	0.72
1:I:65:A:O4'	5:M:502:U:C3'[3_556]	1.49	0.71
2:J:44:A:O4'	4:L:759:U:N1[3_546]	1.49	0.71
2:J:48:A:N9	4:L:755:U:OP2[3_546]	1.49	0.71
2:J:48:A:C5	4:L:755:U:OP2[3_546]	1.49	0.71
2:J:167:A:OP2	6:N:384:U:O5'[4_456]	1.49	0.71
2:J:242:A:N1	6:N:518:U:O4[2_666]	1.49	0.71
2:J:244:A:N7	6:N:517:U:O2'[2_666]	1.49	0.71
3:K:12:A:N1	5:M:312:U:N1[2_664]	1.49	0.71
4:L:752:U:C3'	5:M:499:U:OP2[3_556]	1.49	0.71
4:L:758:U:OP1	5:M:510:U:C4[3_556]	1.49	0.71
5:M:390:U:O3'	6:N:390:U:O4[4_456]	1.49	0.71
1:I:59:A:OP2	2:J:41:A:O5'[3_556]	1.50	0.70
1:I:62:A:C8	5:M:504:U:O3'[3_556]	1.50	0.70
1:I:62:A:O3'	5:M:504:U:C2[3_556]	1.50	0.70
1:I:63:A:O4'	5:M:504:U:O4'[3_556]	1.50	0.70
1:I:71:A:N6	2:J:47:A:P[3_556]	1.50	0.70
1:I:143:A:C4'	4:L:472:U:O5'[3_556]	1.50	0.70
1:I:146:A:C2	1:I:356:A:N7[3_556]	1.50	0.70
1:I:356:A:C2	4:L:680:U:C2[3_546]	1.50	0.70
2:J:164:A:C5'	6:N:387:U:C5'[4_456]	1.50	0.70
2:J:165:A:O3'	6:N:386:U:OP2[4_456]	1.50	0.70
2:J:167:A:P	6:N:384:U:OP1[4_456]	1.50	0.70
2:J:168:A:C8	6:N:383:U:C5[4_456]	1.50	0.70
2:J:169:A:O2'	3:K:151:A:C5[4_456]	1.50	0.70
2:J:170:A:N7	3:K:150:A:N7[4_456]	1.50	0.70
3:K:146:A:N6	5:M:387:U:O4[4_556]	1.50	0.70
4:L:469:U:C4	4:L:679:U:C2'[3_546]	1.50	0.70
1:I:59:A:OP1	2:J:40:A:C3'[3_556]	1.51	0.69
1:I:62:A:O2'	5:M:504:U:C1'[3_556]	1.51	0.69
1:I:63:A:C2'	5:M:503:U:N1[3_556]	1.51	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:65:A:P	5:M:502:U:C4[3_556]	1.51	0.69
2:J:43:A:O4'	4:L:759:U:C2'[3_546]	1.51	0.69
2:J:43:A:O3'	4:L:759:U:O2[3_546]	1.51	0.69
2:J:45:A:C8	4:L:757:U:N3[3_546]	1.51	0.69
2:J:47:A:N3	4:L:755:U:C5'[3_546]	1.51	0.69
2:J:48:A:O4'	4:L:754:U:O2'[3_546]	1.51	0.69
2:J:165:A:C3'	6:N:386:U:OP2[4_456]	1.51	0.69
2:J:169:A:OP2	6:N:382:U:N1[4_456]	1.51	0.69
3:K:148:A:C2'	5:M:384:U:C6[4_556]	1.51	0.69
4:L:470:U:N3	4:L:680:U:O4[3_546]	1.51	0.69
4:L:751:U:O3'	5:M:499:U:C2'[3_556]	1.51	0.69
4:L:757:U:C3'	5:M:509:U:N3[3_556]	1.51	0.69
4:L:757:U:O4'	5:M:509:U:O2[3_556]	1.51	0.69
5:M:312:U:O5'	6:N:520:U:C4[2_666]	1.51	0.69
1:I:68:A:N1	2:J:45:A:C3'[3_556]	1.52	0.68
1:I:149:A:C4'	4:L:466:U:C6[3_556]	1.52	0.68
2:J:42:A:O2'	4:L:760:U:C5'[3_546]	1.52	0.68
2:J:43:A:C8	4:L:759:U:C3'[3_546]	1.52	0.68
2:J:43:A:C1'	4:L:759:U:C3'[3_546]	1.52	0.68
2:J:164:A:C3'	6:N:387:U:P[4_456]	1.52	0.68
2:J:165:A:OP2	6:N:386:U:O4'[4_456]	1.52	0.68
2:J:171:A:N3	3:K:150:A:P[4_456]	1.52	0.68
3:K:13:A:C1'	5:M:313:U:O4'[2_664]	1.52	0.68
4:L:470:U:O4	4:L:679:U:C5[3_546]	1.52	0.68
4:L:752:U:OP2	5:M:500:U:O5'[3_556]	1.52	0.68
4:L:752:U:C2'	5:M:499:U:OP2[3_556]	1.52	0.68
5:M:391:U:O2	6:N:388:U:O2'[4_456]	1.52	0.68
5:M:391:U:C6	6:N:389:U:C5[4_456]	1.52	0.68
1:I:62:A:O5'	5:M:505:U:C3'[3_556]	1.53	0.67
1:I:62:A:N7	5:M:505:U:O5'[3_556]	1.53	0.67
1:I:65:A:N9	5:M:502:U:O3'[3_556]	1.53	0.67
1:I:67:A:N1	2:J:44:A:C3'[3_556]	1.53	0.67
1:I:352:A:O5'	4:L:677:U:OP2[3_546]	1.53	0.67
2:J:43:A:C4	4:L:759:U:C3'[3_546]	1.53	0.67
2:J:44:A:O5'	4:L:759:U:N3[3_546]	1.53	0.67
2:J:47:A:O2'	4:L:754:U:C1'[3_546]	1.53	0.67
2:J:171:A:P	3:K:151:A:P[4_456]	1.53	0.67
3:K:12:A:N9	5:M:313:U:O4[2_664]	1.53	0.67
3:K:12:A:O4'	5:M:314:U:O4[2_664]	1.53	0.67
3:K:144:A:P	5:M:389:U:P[4_556]	1.53	0.67
3:K:149:A:O5'	5:M:383:U:O2[4_556]	1.53	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:752:U:C4'	5:M:499:U:OP2[3_556]	1.53	0.67
1:I:62:A:C8	5:M:505:U:C5'[3_556]	1.54	0.66
1:I:65:A:C2'	5:M:502:U:O5'[3_556]	1.54	0.66
1:I:69:A:C6	2:J:46:A:O5'[3_556]	1.54	0.66
1:I:143:A:C8	4:L:471:U:O4'[3_556]	1.54	0.66
1:I:143:A:C1'	4:L:471:U:C2'[3_556]	1.54	0.66
1:I:143:A:O5'	4:L:472:U:C5[3_556]	1.54	0.66
1:I:143:A:O4'	4:L:471:U:O2'[3_556]	1.54	0.66
1:I:352:A:OP2	4:L:677:U:O5'[3_546]	1.54	0.66
2:J:44:A:C5'	4:L:759:U:C2[3_546]	1.54	0.66
2:J:45:A:C4	4:L:757:U:C2[3_546]	1.54	0.66
2:J:45:A:C5	4:L:757:U:C6[3_546]	1.54	0.66
2:J:48:A:C3'	4:L:754:U:C3'[3_546]	1.54	0.66
2:J:48:A:C2'	4:L:754:U:C4'[3_546]	1.54	0.66
2:J:164:A:O3'	6:N:386:U:O3'[4_456]	1.54	0.66
2:J:240:A:C5	3:K:12:A:OP1[2_666]	1.54	0.66
2:J:240:A:C6	3:K:12:A:O5'[2_666]	1.54	0.66
3:K:147:A:N6	5:M:386:U:N3[4_556]	1.54	0.66
4:L:752:U:OP2	5:M:500:U:OP1[3_556]	1.54	0.66
4:L:752:U:O5'	5:M:499:U:C3'[3_556]	1.54	0.66
4:L:758:U:C4'	5:M:510:U:O2[3_556]	1.54	0.66
1:I:65:A:C2'	5:M:502:U:C5'[3_556]	1.55	0.65
1:I:68:A:N3	2:J:45:A:C5'[3_556]	1.55	0.65
1:I:69:A:C5	2:J:45:A:C3'[3_556]	1.55	0.65
2:J:43:A:P	4:L:761:U:OP2[3_546]	1.55	0.65
2:J:45:A:N7	4:L:758:U:C4[3_546]	1.55	0.65
2:J:165:A:OP1	6:N:386:U:C5'[4_456]	1.55	0.65
2:J:168:A:C2'	6:N:382:U:C6[4_456]	1.55	0.65
2:J:171:A:N7	3:K:150:A:O5'[4_456]	1.55	0.65
2:J:171:A:C5	3:K:150:A:O5'[4_456]	1.55	0.65
2:J:240:A:N6	3:K:12:A:OP2[2_666]	1.55	0.65
3:K:143:A:C8	5:M:389:U:C3'[4_556]	1.55	0.65
3:K:144:A:N3	5:M:390:U:O4[4_556]	1.55	0.65
3:K:144:A:C8	5:M:389:U:C6[4_556]	1.55	0.65
3:K:148:A:O3'	5:M:384:U:O4'[4_556]	1.55	0.65
4:L:757:U:O5'	5:M:509:U:N3[3_556]	1.55	0.65
5:M:312:U:P	6:N:520:U:C4[2_666]	1.55	0.65
1:I:64:A:N1	5:M:503:U:OP1[3_556]	1.56	0.64
1:I:70:A:N1	2:J:46:A:O3'[3_556]	1.56	0.64
1:I:142:A:C1'	4:L:472:U:OP2[3_556]	1.56	0.64
1:I:150:A:P	4:L:465:U:O3'[3_556]	1.56	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:46:A:N9	4:L:756:U:O2[3_546]	1.56	0.64
2:J:47:A:O2'	4:L:754:U:O2[3_546]	1.56	0.64
2:J:48:A:N9	4:L:754:U:O3'[3_546]	1.56	0.64
2:J:163:A:C4	6:N:387:U:O2'[4_456]	1.56	0.64
2:J:164:A:C8	6:N:387:U:C1'[4_456]	1.56	0.64
2:J:165:A:OP2	6:N:386:U:C3'[4_456]	1.56	0.64
2:J:170:A:C2'	3:K:151:A:OP2[4_456]	1.56	0.64
3:K:144:A:C5'	5:M:389:U:OP1[4_556]	1.56	0.64
4:L:752:U:P	5:M:500:U:P[3_556]	1.56	0.64
1:I:61:A:O3'	5:M:505:U:O3'[3_556]	1.57	0.63
1:I:62:A:N7	5:M:505:U:OP2[3_556]	1.57	0.63
1:I:64:A:OP1	2:J:51:A:C6[3_556]	1.57	0.63
1:I:67:A:N3	2:J:45:A:OP1[3_556]	1.57	0.63
1:I:149:A:O2'	4:L:466:U:O4'[3_556]	1.57	0.63
1:I:356:A:N6	4:L:679:U:C2[3_546]	1.57	0.63
2:J:48:A:C1'	4:L:755:U:O5'[3_546]	1.57	0.63
2:J:164:A:C5	6:N:387:U:C4[4_456]	1.57	0.63
2:J:165:A:N6	3:K:145:A:N1[4_456]	1.57	0.63
2:J:166:A:N6	6:N:385:U:O4[4_456]	1.57	0.63
2:J:170:A:P	3:K:151:A:C4[4_456]	1.57	0.63
2:J:171:A:P	3:K:151:A:OP1[4_456]	1.57	0.63
2:J:240:A:N6	3:K:12:A:O5'[2_666]	1.57	0.63
2:J:243:A:C4	6:N:518:U:C5[2_666]	1.57	0.63
3:K:18:A:C1'	5:M:306:U:OP1[2_664]	1.57	0.63
3:K:149:A:N7	5:M:384:U:N3[4_556]	1.57	0.63
4:L:758:U:C5'	5:M:510:U:C4[3_556]	1.57	0.63
1:I:66:A:O5'	5:M:502:U:P[3_556]	1.58	0.62
1:I:67:A:N1	2:J:45:A:OP2[3_556]	1.58	0.62
1:I:69:A:C5	2:J:46:A:OP1[3_556]	1.58	0.62
2:J:44:A:N9	4:L:759:U:C5[3_546]	1.58	0.62
2:J:48:A:C4	4:L:755:U:OP2[3_546]	1.58	0.62
2:J:164:A:C8	6:N:387:U:O4'[4_456]	1.58	0.62
2:J:167:A:C6	6:N:384:U:C4[4_456]	1.58	0.62
2:J:169:A:N9	3:K:150:A:N1[4_456]	1.58	0.62
2:J:169:A:N3	3:K:150:A:C6[4_456]	1.58	0.62
3:K:145:A:C5	5:M:389:U:O4[4_556]	1.58	0.62
3:K:148:A:C3'	5:M:384:U:C6[4_556]	1.58	0.62
4:L:752:U:P	5:M:499:U:C2'[3_556]	1.58	0.62
5:M:312:U:O5'	6:N:520:U:C6[2_666]	1.58	0.62
5:M:390:U:O2	6:N:388:U:O4[4_456]	1.58	0.62
1:I:62:A:C5	5:M:504:U:O3'[3_556]	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:A:C4	5:M:504:U:OP2[3_556]	1.59	0.61
1:I:64:A:C5	5:M:503:U:O5'[3_556]	1.59	0.61
1:I:146:A:O2'	1:I:357:A:OP2[3_556]	1.59	0.61
1:I:150:A:P	4:L:465:U:C3'[3_556]	1.59	0.61
2:J:43:A:C4	4:L:759:U:O5'[3_546]	1.59	0.61
2:J:168:A:C5'	6:N:383:U:P[4_456]	1.59	0.61
2:J:242:A:O3'	3:K:15:A:C5[2_666]	1.59	0.61
2:J:242:A:C3'	3:K:15:A:N1[2_666]	1.59	0.61
2:J:243:A:P	3:K:15:A:N3[2_666]	1.59	0.61
3:K:143:A:N1	5:M:390:U:C5[4_556]	1.59	0.61
3:K:144:A:N7	5:M:389:U:C5[4_556]	1.59	0.61
3:K:149:A:C5'	5:M:383:U:N1[4_556]	1.59	0.61
4:L:757:U:C5'	5:M:509:U:C6[3_556]	1.59	0.61
1:I:62:A:C2'	5:M:504:U:C2[3_556]	1.60	0.60
1:I:62:A:C2'	5:M:504:U:C2'[3_556]	1.60	0.60
1:I:64:A:OP2	5:M:503:U:C4[3_556]	1.60	0.60
1:I:70:A:C5	2:J:46:A:C4'[3_556]	1.60	0.60
1:I:146:A:C5	1:I:356:A:N7[3_556]	1.60	0.60
2:J:43:A:C5'	4:L:760:U:C4'[3_546]	1.60	0.60
2:J:44:A:OP1	4:L:760:U:O2[3_546]	1.60	0.60
2:J:47:A:C1'	4:L:754:U:O2[3_546]	1.60	0.60
2:J:47:A:C1'	4:L:755:U:C1'[3_546]	1.60	0.60
2:J:47:A:N7	4:L:756:U:C5[3_546]	1.60	0.60
2:J:163:A:N3	6:N:387:U:C1'[4_456]	1.60	0.60
2:J:164:A:C4	6:N:387:U:C4[4_456]	1.60	0.60
2:J:165:A:N6	3:K:145:A:N6[4_456]	1.60	0.60
2:J:170:A:C5'	3:K:151:A:C8[4_456]	1.60	0.60
2:J:243:A:C5	6:N:517:U:N1[2_666]	1.60	0.60
3:K:143:A:C4	5:M:389:U:C2'[4_556]	1.60	0.60
3:K:144:A:C5	5:M:389:U:C5[4_556]	1.60	0.60
3:K:147:A:C2	5:M:386:U:O4[4_556]	1.60	0.60
3:K:147:A:P	5:M:386:U:C5'[4_556]	1.60	0.60
4:L:751:U:C1'	5:M:499:U:C5'[3_556]	1.60	0.60
4:L:751:U:O2'	5:M:498:U:O2'[3_556]	1.60	0.60
1:I:63:A:P	5:M:504:U:O2[3_556]	1.61	0.59
1:I:143:A:C8	4:L:471:U:C4'[3_556]	1.61	0.59
1:I:149:A:C5'	4:L:466:U:C5[3_556]	1.61	0.59
2:J:43:A:C8	4:L:760:U:OP2[3_546]	1.61	0.59
2:J:46:A:N7	4:L:756:U:N3[3_546]	1.61	0.59
2:J:48:A:C2'	4:L:754:U:C3'[3_546]	1.61	0.59
2:J:48:A:C3'	4:L:754:U:O4'[3_546]	1.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:49:A:OP2	4:L:753:U:O3'[3_546]	1.61	0.59
2:J:164:A:C5	6:N:387:U:C6[4_456]	1.61	0.59
2:J:168:A:N6	3:K:148:A:N6[4_456]	1.61	0.59
2:J:171:A:C4	3:K:150:A:OP1[4_456]	1.61	0.59
3:K:144:A:C5	5:M:389:U:N3[4_556]	1.61	0.59
3:K:147:A:O4'	5:M:386:U:OP2[4_556]	1.61	0.59
5:M:311:U:O2	6:N:519:U:O4[2_666]	1.61	0.59
1:I:63:A:N9	5:M:503:U:C2'[3_556]	1.62	0.58
1:I:63:A:C2'	5:M:503:U:O2[3_556]	1.62	0.58
1:I:63:A:N1	5:M:504:U:OP2[3_556]	1.62	0.58
1:I:143:A:C3'	4:L:472:U:O4'[3_556]	1.62	0.58
1:I:150:A:OP2	4:L:465:U:C4'[3_556]	1.62	0.58
1:I:357:A:C6	4:L:679:U:O2[3_546]	1.62	0.58
2:J:42:A:O3'	4:L:761:U:P[3_546]	1.62	0.58
2:J:42:A:C2'	4:L:760:U:O5'[3_546]	1.62	0.58
2:J:43:A:C1'	4:L:759:U:C1'[3_546]	1.62	0.58
2:J:46:A:N7	4:L:757:U:C5[3_546]	1.62	0.58
2:J:47:A:N3	4:L:755:U:C3'[3_546]	1.62	0.58
2:J:47:A:C2'	4:L:754:U:N1[3_546]	1.62	0.58
2:J:48:A:O4'	4:L:754:U:O3'[3_546]	1.62	0.58
2:J:48:A:OP1	4:L:754:U:C6[3_546]	1.62	0.58
2:J:167:A:C5	6:N:384:U:O4[4_456]	1.62	0.58
2:J:168:A:N7	6:N:383:U:N3[4_456]	1.62	0.58
2:J:169:A:C2'	3:K:150:A:N1[4_456]	1.62	0.58
2:J:170:A:N7	3:K:150:A:C8[4_456]	1.62	0.58
2:J:171:A:O5'	3:K:151:A:OP2[4_456]	1.62	0.58
4:L:469:U:C5	4:L:679:U:C2'[3_546]	1.62	0.58
4:L:751:U:C2'	5:M:499:U:O5'[3_556]	1.62	0.58
5:M:312:U:C3'	6:N:519:U:O2[2_666]	1.62	0.58
1:I:62:A:N3	5:M:504:U:O5'[3_556]	1.63	0.57
1:I:62:A:C3'	5:M:505:U:C6[3_556]	1.63	0.57
1:I:64:A:C3'	5:M:502:U:C1'[3_556]	1.63	0.57
1:I:67:A:C2	2:J:44:A:C3'[3_556]	1.63	0.57
1:I:150:A:OP1	4:L:465:U:C2'[3_556]	1.63	0.57
1:I:356:A:N3	4:L:680:U:C2[3_546]	1.63	0.57
2:J:164:A:N7	6:N:387:U:C2[4_456]	1.63	0.57
2:J:167:A:O5'	6:N:384:U:O5'[4_456]	1.63	0.57
2:J:171:A:N9	3:K:150:A:P[4_456]	1.63	0.57
3:K:17:A:O3'	5:M:305:U:OP1[2_664]	1.63	0.57
3:K:143:A:C4	5:M:389:U:C3'[4_556]	1.63	0.57
3:K:147:A:O3'	5:M:385:U:C4'[4_556]	1.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:147:A:OP1	5:M:386:U:OP1[4_556]	1.63	0.57
3:K:147:A:C5'	5:M:386:U:OP1[4_556]	1.63	0.57
4:L:756:U:O3'	5:M:508:U:C4[3_556]	1.63	0.57
4:L:758:U:OP2	5:M:509:U:C4[3_556]	1.63	0.57
4:L:763:U:N3	5:M:504:U:OP1[3_556]	1.63	0.57
1:I:64:A:P	5:M:503:U:C2[3_556]	1.64	0.56
1:I:69:A:N7	2:J:45:A:O3'[3_556]	1.64	0.56
1:I:70:A:C2	2:J:46:A:C1'[3_556]	1.64	0.56
1:I:70:A:N3	2:J:46:A:O4'[3_556]	1.64	0.56
1:I:70:A:C2	2:J:46:A:O2'[3_556]	1.64	0.56
1:I:70:A:N9	2:J:46:A:C5'[3_556]	1.64	0.56
1:I:146:A:C2	1:I:356:A:C5[3_556]	1.64	0.56
2:J:43:A:C6	4:L:759:U:OP2[3_546]	1.64	0.56
2:J:44:A:N1	4:L:758:U:C6[3_546]	1.64	0.56
2:J:44:A:C4	4:L:758:U:C2[3_546]	1.64	0.56
2:J:46:A:N3	4:L:756:U:C6[3_546]	1.64	0.56
2:J:164:A:C1'	6:N:387:U:O5'[4_456]	1.64	0.56
2:J:168:A:O3'	6:N:382:U:C3'[4_456]	1.64	0.56
2:J:168:A:C8	6:N:383:U:C4[4_456]	1.64	0.56
2:J:169:A:N6	3:K:149:A:N6[4_456]	1.64	0.56
2:J:242:A:N9	3:K:14:A:N6[2_666]	1.64	0.56
3:K:12:A:C4	5:M:313:U:C4[2_664]	1.64	0.56
3:K:13:A:N9	5:M:313:U:O4'[2_664]	1.64	0.56
3:K:147:A:C5	5:M:386:U:C5[4_556]	1.64	0.56
3:K:147:A:O5'	5:M:386:U:OP2[4_556]	1.64	0.56
3:K:148:A:C5'	5:M:385:U:P[4_556]	1.64	0.56
3:K:148:A:O3'	5:M:384:U:C6[4_556]	1.64	0.56
3:K:149:A:C8	5:M:384:U:N3[4_556]	1.64	0.56
4:L:469:U:O4	4:L:679:U:C6[3_546]	1.64	0.56
4:L:751:U:C3'	5:M:499:U:O3'[3_556]	1.64	0.56
1:I:58:A:O3'	2:J:40:A:O3'[3_556]	1.65	0.55
1:I:64:A:O4'	5:M:502:U:O2[3_556]	1.65	0.55
1:I:65:A:O3'	5:M:502:U:O5'[3_556]	1.65	0.55
1:I:65:A:C8	5:M:502:U:O3'[3_556]	1.65	0.55
1:I:67:A:N1	2:J:45:A:O5'[3_556]	1.65	0.55
1:I:70:A:N7	2:J:46:A:C5'[3_556]	1.65	0.55
1:I:143:A:O3'	4:L:472:U:C6[3_556]	1.65	0.55
2:J:42:A:C2'	4:L:760:U:OP1[3_546]	1.65	0.55
2:J:44:A:N7	4:L:759:U:C5[3_546]	1.65	0.55
2:J:168:A:OP2	6:N:383:U:O4'[4_456]	1.65	0.55
2:J:169:A:O4'	6:N:381:U:O2[4_456]	1.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:C4	3:K:150:A:C5'[4_456]	1.65	0.55
3:K:12:A:O3'	5:M:314:U:C6[2_664]	1.65	0.55
3:K:143:A:O3'	5:M:389:U:OP1[4_556]	1.65	0.55
3:K:143:A:C8	5:M:389:U:O3'[4_556]	1.65	0.55
3:K:148:A:OP2	5:M:385:U:C5'[4_556]	1.65	0.55
4:L:752:U:OP2	5:M:500:U:OP2[3_556]	1.65	0.55
4:L:758:U:C4'	5:M:510:U:N3[3_556]	1.65	0.55
4:L:758:U:OP1	5:M:510:U:C5[3_556]	1.65	0.55
1:I:62:A:O4'	5:M:505:U:O4'[3_556]	1.66	0.54
1:I:64:A:O5'	5:M:503:U:C5[3_556]	1.66	0.54
1:I:67:A:C2	2:J:45:A:OP1[3_556]	1.66	0.54
1:I:67:A:N3	2:J:44:A:O3'[3_556]	1.66	0.54
1:I:68:A:N7	2:J:45:A:OP1[3_556]	1.66	0.54
1:I:141:A:O2'	1:I:348:A:OP2[3_556]	1.66	0.54
1:I:143:A:C4	4:L:471:U:C1'[3_556]	1.66	0.54
1:I:143:A:O4'	4:L:472:U:P[3_556]	1.66	0.54
1:I:356:A:C2	4:L:680:U:C4[3_546]	1.66	0.54
2:J:164:A:N7	6:N:387:U:C6[4_456]	1.66	0.54
2:J:164:A:N3	6:N:387:U:C5[4_456]	1.66	0.54
2:J:165:A:C5	6:N:386:U:C4[4_456]	1.66	0.54
2:J:242:A:O4'	3:K:15:A:N6[2_666]	1.66	0.54
3:K:143:A:O3'	5:M:389:U:C5'[4_556]	1.66	0.54
3:K:146:A:N1	5:M:387:U:O4[4_556]	1.66	0.54
3:K:147:A:O3'	5:M:385:U:O3'[4_556]	1.66	0.54
3:K:149:A:N7	5:M:384:U:C4[4_556]	1.66	0.54
4:L:469:U:N3	4:L:679:U:C2'[3_546]	1.66	0.54
5:M:390:U:C2'	6:N:389:U:N3[4_456]	1.66	0.54
1:I:62:A:O4'	5:M:504:U:C2'[3_556]	1.67	0.53
1:I:64:A:C3'	5:M:502:U:O2[3_556]	1.67	0.53
1:I:64:A:C2'	5:M:502:U:N1[3_556]	1.67	0.53
1:I:65:A:C5'	5:M:502:U:O4'[3_556]	1.67	0.53
1:I:65:A:C3'	5:M:502:U:C5'[3_556]	1.67	0.53
1:I:149:A:O3'	4:L:465:U:C2'[3_556]	1.67	0.53
2:J:48:A:P	4:L:754:U:N1[3_546]	1.67	0.53
2:J:48:A:OP2	4:L:754:U:C4[3_546]	1.67	0.53
2:J:167:A:P	6:N:384:U:O5'[4_456]	1.67	0.53
2:J:169:A:C6	3:K:149:A:C5[4_456]	1.67	0.53
2:J:240:A:N6	3:K:12:A:P[2_666]	1.67	0.53
2:J:243:A:OP2	3:K:15:A:N3[2_666]	1.67	0.53
2:J:244:A:C6	6:N:517:U:C4'[2_666]	1.67	0.53
3:K:12:A:C2'	5:M:313:U:C2[2_664]	1.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:142:A:N1	5:M:390:U:C3'[4_556]	1.67	0.53
3:K:143:A:N6	5:M:390:U:O4'[4_556]	1.67	0.53
3:K:143:A:C6	5:M:390:U:O4'[4_556]	1.67	0.53
4:L:470:U:O4	4:L:679:U:O4[3_546]	1.67	0.53
4:L:756:U:OP1	5:M:507:U:N1[3_556]	1.67	0.53
5:M:312:U:C1'	6:N:519:U:N3[2_666]	1.67	0.53
1:I:61:A:C5	5:M:505:U:OP1[3_556]	1.68	0.52
1:I:62:A:N1	5:M:504:U:OP1[3_556]	1.68	0.52
1:I:63:A:C2'	5:M:503:U:C2[3_556]	1.68	0.52
1:I:63:A:N9	5:M:504:U:O5'[3_556]	1.68	0.52
1:I:63:A:C2'	5:M:503:U:C2'[3_556]	1.68	0.52
1:I:64:A:O5'	5:M:503:U:C4[3_556]	1.68	0.52
1:I:65:A:C2'	5:M:502:U:OP1[3_556]	1.68	0.52
1:I:69:A:N1	2:J:45:A:C2'[3_556]	1.68	0.52
1:I:70:A:C2	2:J:46:A:O4'[3_556]	1.68	0.52
1:I:143:A:C2'	4:L:472:U:O4'[3_556]	1.68	0.52
1:I:143:A:N7	4:L:471:U:C1'[3_556]	1.68	0.52
1:I:352:A:O4'	4:L:676:U:OP2[3_546]	1.68	0.52
2:J:47:A:O4'	4:L:754:U:O2[3_546]	1.68	0.52
2:J:164:A:N9	6:N:387:U:N1[4_456]	1.68	0.52
2:J:164:A:C4'	6:N:387:U:C5'[4_456]	1.68	0.52
2:J:169:A:C5	3:K:149:A:C6[4_456]	1.68	0.52
2:J:171:A:N7	3:K:150:A:O4'[4_456]	1.68	0.52
2:J:242:A:O3'	3:K:15:A:C2[2_666]	1.68	0.52
3:K:143:A:N9	5:M:389:U:C2'[4_556]	1.68	0.52
3:K:143:A:C2	5:M:390:U:C5[4_556]	1.68	0.52
3:K:145:A:OP2	5:M:388:U:P[4_556]	1.68	0.52
4:L:470:U:C2	4:L:680:U:O4[3_546]	1.68	0.52
4:L:756:U:O5'	5:M:507:U:N3[3_556]	1.68	0.52
5:M:312:U:OP2	6:N:520:U:O4[2_666]	1.68	0.52
1:I:61:A:C4'	5:M:505:U:O3'[3_556]	1.69	0.51
1:I:62:A:N3	5:M:504:U:O4'[3_556]	1.69	0.51
1:I:63:A:C8	5:M:504:U:C6[3_556]	1.69	0.51
1:I:64:A:C8	5:M:503:U:C6[3_556]	1.69	0.51
1:I:150:A:O5'	4:L:465:U:O3'[3_556]	1.69	0.51
2:J:43:A:N3	4:L:758:U:C2'[3_546]	1.69	0.51
2:J:45:A:N1	4:L:757:U:C6[3_546]	1.69	0.51
2:J:164:A:N3	6:N:387:U:C4[4_456]	1.69	0.51
2:J:242:A:C4	3:K:14:A:N6[2_666]	1.69	0.51
2:J:242:A:C1'	3:K:14:A:C6[2_666]	1.69	0.51
2:J:244:A:N7	6:N:517:U:O3'[2_666]	1.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:143:A:C1'	5:M:389:U:C3'[4_556]	1.69	0.51
3:K:146:A:C3'	5:M:386:U:O3'[4_556]	1.69	0.51
3:K:148:A:N9	5:M:385:U:C5[4_556]	1.69	0.51
4:L:751:U:C4'	5:M:499:U:O4'[3_556]	1.69	0.51
4:L:758:U:O5'	5:M:510:U:O4[3_556]	1.69	0.51
1:I:61:A:O3'	5:M:505:U:C4'[3_556]	1.70	0.50
1:I:63:A:O2'	5:M:503:U:C1'[3_556]	1.70	0.50
1:I:64:A:C4	5:M:503:U:OP2[3_556]	1.70	0.50
1:I:70:A:C5	2:J:46:A:O5'[3_556]	1.70	0.50
1:I:143:A:O2'	4:L:472:U:C4'[3_556]	1.70	0.50
2:J:43:A:N3	4:L:759:U:C5'[3_546]	1.70	0.50
2:J:47:A:C8	4:L:755:U:N3[3_546]	1.70	0.50
2:J:164:A:C5	6:N:387:U:C5[4_456]	1.70	0.50
2:J:164:A:C6	6:N:387:U:C2[4_456]	1.70	0.50
2:J:169:A:OP1	6:N:382:U:O4'[4_456]	1.70	0.50
2:J:169:A:C2'	3:K:151:A:C6[4_456]	1.70	0.50
2:J:240:A:OP1	6:N:514:U:P[2_666]	1.70	0.50
2:J:243:A:N3	6:N:518:U:C5[2_666]	1.70	0.50
3:K:144:A:OP1	5:M:388:U:O3'[4_556]	1.70	0.50
4:L:758:U:P	5:M:510:U:C5[3_556]	1.70	0.50
5:M:312:U:P	6:N:520:U:C6[2_666]	1.70	0.50
1:I:62:A:N3	5:M:504:U:C3'[3_556]	1.71	0.49
1:I:65:A:C5'	5:M:501:U:C2'[3_556]	1.71	0.49
1:I:70:A:C6	2:J:47:A:OP2[3_556]	1.71	0.49
1:I:70:A:C6	2:J:46:A:O3'[3_556]	1.71	0.49
1:I:71:A:N7	2:J:46:A:O3'[3_556]	1.71	0.49
1:I:146:A:C6	1:I:356:A:C5[3_556]	1.71	0.49
1:I:353:A:OP1	4:L:676:U:O4[3_546]	1.71	0.49
2:J:43:A:C4	4:L:759:U:C5'[3_546]	1.71	0.49
2:J:43:A:O3'	4:L:760:U:N1[3_546]	1.71	0.49
2:J:46:A:C4	4:L:756:U:C1'[3_546]	1.71	0.49
2:J:169:A:C2'	3:K:151:A:C5[4_456]	1.71	0.49
2:J:170:A:O3'	3:K:151:A:O5'[4_456]	1.71	0.49
2:J:240:A:P	6:N:514:U:OP1[2_666]	1.71	0.49
3:K:148:A:N9	5:M:385:U:O4[4_556]	1.71	0.49
4:L:469:U:C1'	4:L:679:U:O3'[3_546]	1.71	0.49
1:I:62:A:N7	5:M:504:U:O3'[3_556]	1.72	0.48
1:I:65:A:O4'	5:M:502:U:O4'[3_556]	1.72	0.48
1:I:65:A:C8	5:M:502:U:C3'[3_556]	1.72	0.48
1:I:65:A:P	5:M:502:U:N1[3_556]	1.72	0.48
1:I:69:A:N1	2:J:46:A:P[3_556]	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:352:A:P	4:L:676:U:C3'[3_546]	1.72	0.48
1:I:352:A:OP1	4:L:676:U:O3'[3_546]	1.72	0.48
2:J:44:A:O4'	4:L:759:U:C1'[3_546]	1.72	0.48
2:J:45:A:N9	4:L:757:U:C4[3_546]	1.72	0.48
2:J:47:A:O3'	4:L:754:U:N1[3_546]	1.72	0.48
2:J:165:A:C5	6:N:386:U:O4[4_456]	1.72	0.48
2:J:169:A:C2	3:K:150:A:N6[4_456]	1.72	0.48
2:J:171:A:C8	3:K:150:A:C4'[4_456]	1.72	0.48
2:J:236:A:C3'	6:N:522:U:O2'[2_666]	1.72	0.48
2:J:243:A:N7	6:N:517:U:C6[2_666]	1.72	0.48
2:J:243:A:N9	6:N:517:U:C2[2_666]	1.72	0.48
3:K:144:A:C3'	5:M:389:U:OP2[4_556]	1.72	0.48
3:K:147:A:OP2	5:M:386:U:C3'[4_556]	1.72	0.48
3:K:147:A:N7	5:M:386:U:C5[4_556]	1.72	0.48
5:M:311:U:O2	6:N:519:U:C5[2_666]	1.72	0.48
1:I:59:A:P	2:J:41:A:OP1[3_556]	1.73	0.47
1:I:61:A:O2'	5:M:505:U:C4'[3_556]	1.73	0.47
1:I:62:A:N1	5:M:504:U:O5'[3_556]	1.73	0.47
1:I:62:A:C3'	5:M:504:U:C2[3_556]	1.73	0.47
1:I:63:A:C4	5:M:504:U:O5'[3_556]	1.73	0.47
1:I:63:A:O3'	5:M:503:U:N3[3_556]	1.73	0.47
1:I:64:A:O5'	5:M:503:U:N3[3_556]	1.73	0.47
1:I:65:A:C4'	5:M:502:U:C4'[3_556]	1.73	0.47
1:I:67:A:C6	2:J:45:A:OP1[3_556]	1.73	0.47
1:I:146:A:OP2	1:I:355:A:C4'[3_556]	1.73	0.47
1:I:146:A:C1'	1:I:356:A:C5'[3_556]	1.73	0.47
2:J:45:A:C4	4:L:757:U:N3[3_546]	1.73	0.47
2:J:47:A:C2	4:L:755:U:C5'[3_546]	1.73	0.47
2:J:166:A:N6	6:N:386:U:O4[4_456]	1.73	0.47
2:J:166:A:N1	6:N:385:U:O4[4_456]	1.73	0.47
2:J:167:A:P	6:N:384:U:P[4_456]	1.73	0.47
2:J:168:A:O2'	6:N:382:U:C6[4_456]	1.73	0.47
2:J:240:A:N7	3:K:12:A:OP2[2_666]	1.73	0.47
3:K:13:A:C8	5:M:313:U:N1[2_664]	1.73	0.47
3:K:148:A:C4	5:M:385:U:C4[4_556]	1.73	0.47
3:K:149:A:C4'	5:M:383:U:N1[4_556]	1.73	0.47
5:M:312:U:C6	6:N:519:U:O4[2_666]	1.73	0.47
5:M:392:U:C6	6:N:388:U:O2'[4_456]	1.73	0.47
5:M:392:U:C4'	6:N:389:U:OP1[4_456]	1.73	0.47
1:I:63:A:N3	5:M:503:U:C4'[3_556]	1.74	0.46
1:I:63:A:N3	5:M:504:U:P[3_556]	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:142:A:C4	4:L:471:U:O3'[3_556]	1.74	0.46
1:I:143:A:O4'	4:L:471:U:C2'[3_556]	1.74	0.46
1:I:145:A:N6	1:I:355:A:C2[3_556]	1.74	0.46
1:I:356:A:C6	4:L:679:U:N3[3_546]	1.74	0.46
2:J:42:A:C2	4:L:759:U:C5'[3_546]	1.74	0.46
2:J:43:A:N9	4:L:759:U:O3'[3_546]	1.74	0.46
2:J:163:A:O2'	6:N:387:U:C4'[4_456]	1.74	0.46
2:J:168:A:OP2	6:N:383:U:C5'[4_456]	1.74	0.46
3:K:12:A:N6	5:M:312:U:N3[2_664]	1.74	0.46
3:K:12:A:C3'	5:M:314:U:C5[2_664]	1.74	0.46
3:K:13:A:O4'	5:M:313:U:O4'[2_664]	1.74	0.46
3:K:13:A:C8	5:M:313:U:C1'[2_664]	1.74	0.46
4:L:469:U:O4'	4:L:679:U:O3'[3_546]	1.74	0.46
1:I:62:A:O5'	5:M:505:U:C4'[3_556]	1.75	0.45
1:I:64:A:N3	5:M:503:U:OP2[3_556]	1.75	0.45
2:J:43:A:C2	4:L:759:U:O5'[3_546]	1.75	0.45
2:J:43:A:C2	4:L:758:U:O2'[3_546]	1.75	0.45
2:J:48:A:C8	4:L:755:U:P[3_546]	1.75	0.45
2:J:165:A:N1	3:K:145:A:N6[4_456]	1.75	0.45
2:J:171:A:N9	3:K:150:A:OP1[4_456]	1.75	0.45
2:J:236:A:O3'	6:N:522:U:C2'[2_666]	1.75	0.45
2:J:240:A:C5'	6:N:514:U:OP2[2_666]	1.75	0.45
2:J:244:A:C8	6:N:517:U:C2'[2_666]	1.75	0.45
3:K:143:A:C3'	5:M:389:U:O5'[4_556]	1.75	0.45
3:K:149:A:N9	5:M:384:U:O4[4_556]	1.75	0.45
4:L:469:U:O2'	4:L:680:U:OP2[3_546]	1.75	0.45
4:L:756:U:C5'	5:M:507:U:O2[3_556]	1.75	0.45
4:L:758:U:C4'	5:M:510:U:C2[3_556]	1.75	0.45
5:M:311:U:O2	6:N:519:U:C4[2_666]	1.75	0.45
1:I:59:A:P	2:J:41:A:C5'[3_556]	1.76	0.44
1:I:62:A:O5'	5:M:505:U:N1[3_556]	1.76	0.44
1:I:63:A:C2	5:M:503:U:C3'[3_556]	1.76	0.44
1:I:69:A:C4	2:J:45:A:C3'[3_556]	1.76	0.44
1:I:69:A:N9	2:J:45:A:O3'[3_556]	1.76	0.44
2:J:42:A:C4	4:L:760:U:OP1[3_546]	1.76	0.44
2:J:43:A:C4	4:L:759:U:O4'[3_546]	1.76	0.44
2:J:44:A:C8	4:L:759:U:N1[3_546]	1.76	0.44
2:J:44:A:C2'	4:L:758:U:C2[3_546]	1.76	0.44
2:J:47:A:N3	4:L:755:U:O4'[3_546]	1.76	0.44
2:J:164:A:N9	6:N:387:U:C5[4_456]	1.76	0.44
2:J:165:A:N6	3:K:145:A:C6[4_456]	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:167:A:C5'	6:N:384:U:P[4_456]	1.76	0.44
2:J:167:A:N6	6:N:384:U:N3[4_456]	1.76	0.44
2:J:167:A:C2	6:N:384:U:O4[4_456]	1.76	0.44
2:J:168:A:O3'	6:N:382:U:C4'[4_456]	1.76	0.44
2:J:169:A:OP2	6:N:382:U:O4'[4_456]	1.76	0.44
2:J:236:A:OP1	6:N:522:U:C5'[2_666]	1.76	0.44
2:J:244:A:N6	6:N:517:U:C4'[2_666]	1.76	0.44
3:K:18:A:O4'	5:M:305:U:O3'[2_664]	1.76	0.44
3:K:18:A:O4'	5:M:306:U:P[2_664]	1.76	0.44
3:K:146:A:N6	5:M:388:U:O4[4_556]	1.76	0.44
3:K:146:A:O3'	5:M:386:U:O3'[4_556]	1.76	0.44
3:K:147:A:OP2	5:M:386:U:O5'[4_556]	1.76	0.44
4:L:751:U:C3'	5:M:499:U:C5'[3_556]	1.76	0.44
1:I:62:A:O2'	5:M:504:U:N1[3_556]	1.77	0.43
1:I:65:A:O5'	5:M:502:U:N1[3_556]	1.77	0.43
1:I:143:A:C5	4:L:471:U:C4'[3_556]	1.77	0.43
1:I:145:A:N3	1:I:356:A:O4'[3_556]	1.77	0.43
2:J:43:A:O5'	4:L:760:U:O5'[3_546]	1.77	0.43
2:J:43:A:N1	4:L:758:U:C2'[3_546]	1.77	0.43
2:J:44:A:N3	4:L:758:U:C1'[3_546]	1.77	0.43
2:J:48:A:C1'	4:L:755:U:C5'[3_546]	1.77	0.43
2:J:48:A:C8	4:L:755:U:O5'[3_546]	1.77	0.43
2:J:164:A:C4	6:N:387:U:N1[4_456]	1.77	0.43
2:J:171:A:C1'	3:K:150:A:OP1[4_456]	1.77	0.43
2:J:239:A:N6	3:K:11:A:O3'[2_666]	1.77	0.43
3:K:149:A:C3'	5:M:383:U:O2[4_556]	1.77	0.43
4:L:469:U:O4'	4:L:680:U:P[3_546]	1.77	0.43
4:L:757:U:OP2	5:M:508:U:N3[3_556]	1.77	0.43
4:L:758:U:O4'	5:M:510:U:O2[3_556]	1.77	0.43
5:M:390:U:O2	6:N:388:U:C5[4_456]	1.77	0.43
5:M:391:U:P	6:N:390:U:O4[4_456]	1.77	0.43
5:M:391:U:C1'	6:N:388:U:C3'[4_456]	1.77	0.43
1:I:59:A:OP1	2:J:41:A:OP2[3_556]	1.78	0.42
1:I:62:A:C2'	5:M:504:U:O2[3_556]	1.78	0.42
1:I:63:A:OP1	2:J:49:A:N1[3_556]	1.78	0.42
1:I:64:A:O5'	5:M:503:U:C6[3_556]	1.78	0.42
1:I:65:A:P	5:M:502:U:N3[3_556]	1.78	0.42
1:I:149:A:O2'	4:L:466:U:C4'[3_556]	1.78	0.42
1:I:150:A:N7	4:L:466:U:OP1[3_556]	1.78	0.42
1:I:352:A:P	4:L:676:U:O3'[3_546]	1.78	0.42
2:J:43:A:N6	4:L:759:U:OP1[3_546]	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:43:A:N9	4:L:759:U:C4'[3_546]	1.78	0.42
2:J:45:A:N7	4:L:758:U:O4[3_546]	1.78	0.42
2:J:45:A:C4	4:L:757:U:C4[3_546]	1.78	0.42
2:J:163:A:N9	6:N:387:U:O2'[4_456]	1.78	0.42
2:J:164:A:P	6:N:386:U:O2'[4_456]	1.78	0.42
2:J:164:A:N6	6:N:387:U:N3[4_456]	1.78	0.42
2:J:169:A:N7	6:N:382:U:O4[4_456]	1.78	0.42
2:J:170:A:OP1	3:K:151:A:O2'[4_456]	1.78	0.42
3:K:12:A:C5	5:M:313:U:C5[2_664]	1.78	0.42
3:K:17:A:O2'	5:M:306:U:OP2[2_664]	1.78	0.42
3:K:17:A:O2'	5:M:305:U:C3'[2_664]	1.78	0.42
3:K:143:A:O4'	5:M:389:U:O3'[4_556]	1.78	0.42
3:K:148:A:N9	5:M:385:U:C4[4_556]	1.78	0.42
5:M:391:U:OP2	6:N:390:U:C6[4_456]	1.78	0.42
5:M:391:U:C3'	6:N:389:U:O5'[4_456]	1.78	0.42
1:I:64:A:P	5:M:503:U:C4[3_556]	1.79	0.41
1:I:65:A:C1'	5:M:502:U:C4'[3_556]	1.79	0.41
1:I:68:A:C6	2:J:45:A:C5'[3_556]	1.79	0.41
1:I:69:A:C5	2:J:46:A:OP2[3_556]	1.79	0.41
1:I:69:A:C6	2:J:45:A:O3'[3_556]	1.79	0.41
1:I:71:A:C5	2:J:47:A:OP1[3_556]	1.79	0.41
1:I:141:A:O3'	1:I:349:A:OP2[3_556]	1.79	0.41
1:I:143:A:C4'	4:L:472:U:C6[3_556]	1.79	0.41
2:J:42:A:C3'	4:L:761:U:OP2[3_546]	1.79	0.41
2:J:44:A:C2	4:L:757:U:C2'[3_546]	1.79	0.41
2:J:47:A:C1'	4:L:755:U:C6[3_546]	1.79	0.41
2:J:48:A:O3'	4:L:754:U:O4'[3_546]	1.79	0.41
2:J:48:A:OP1	4:L:753:U:C2[3_546]	1.79	0.41
2:J:164:A:O3'	6:N:387:U:P[4_456]	1.79	0.41
2:J:169:A:N7	6:N:382:U:C4[4_456]	1.79	0.41
2:J:170:A:C6	3:K:150:A:N7[4_456]	1.79	0.41
2:J:237:A:OP2	6:N:522:U:O2'[2_666]	1.79	0.41
3:K:12:A:C6	5:M:312:U:N3[2_664]	1.79	0.41
3:K:144:A:O5'	5:M:389:U:O5'[4_556]	1.79	0.41
4:L:751:U:C5'	5:M:499:U:O2'[3_556]	1.79	0.41
4:L:757:U:P	5:M:508:U:C4[3_556]	1.79	0.41
4:L:757:U:C5'	5:M:509:U:C4[3_556]	1.79	0.41
1:I:62:A:O2'	5:M:504:U:O2[3_556]	1.80	0.40
1:I:64:A:N9	5:M:502:U:C2'[3_556]	1.80	0.40
1:I:65:A:C4'	5:M:502:U:O4'[3_556]	1.80	0.40
1:I:149:A:OP1	4:L:465:U:C6[3_556]	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:43:A:C3'	4:L:759:U:O2[3_546]	1.80	0.40
2:J:44:A:N7	4:L:759:U:C6[3_546]	1.80	0.40
2:J:48:A:P	4:L:754:U:N3[3_546]	1.80	0.40
2:J:49:A:OP2	4:L:753:U:C3'[3_546]	1.80	0.40
2:J:165:A:N7	6:N:386:U:N3[4_456]	1.80	0.40
2:J:168:A:O3'	6:N:382:U:N1[4_456]	1.80	0.40
2:J:168:A:OP1	6:N:383:U:P[4_456]	1.80	0.40
2:J:170:A:O3'	3:K:151:A:OP2[4_456]	1.80	0.40
2:J:170:A:O4'	3:K:151:A:N7[4_456]	1.80	0.40
2:J:170:A:C5	3:K:150:A:C5[4_456]	1.80	0.40
2:J:171:A:N9	3:K:150:A:C5'[4_456]	1.80	0.40
2:J:242:A:C2	6:N:518:U:C4[2_666]	1.80	0.40
3:K:145:A:C6	5:M:389:U:O4[4_556]	1.80	0.40
3:K:147:A:C6	5:M:386:U:N3[4_556]	1.80	0.40
5:M:391:U:C6	6:N:388:U:O2[4_456]	1.80	0.40
5:M:392:U:O5'	6:N:389:U:P[4_456]	1.80	0.40
1:I:62:A:OP2	5:M:505:U:C3'[3_556]	1.81	0.39
1:I:62:A:C4	5:M:505:U:P[3_556]	1.81	0.39
1:I:62:A:C5	5:M:504:U:C3'[3_556]	1.81	0.39
1:I:63:A:O5'	5:M:504:U:C6[3_556]	1.81	0.39
1:I:65:A:C4'	5:M:501:U:O3'[3_556]	1.81	0.39
1:I:67:A:N1	2:J:45:A:OP1[3_556]	1.81	0.39
1:I:149:A:P	4:L:465:U:C5[3_556]	1.81	0.39
2:J:43:A:C2	4:L:759:U:C5'[3_546]	1.81	0.39
2:J:43:A:O4'	4:L:760:U:C4'[3_546]	1.81	0.39
2:J:44:A:N3	4:L:758:U:C2[3_546]	1.81	0.39
2:J:45:A:O4'	4:L:757:U:O2[3_546]	1.81	0.39
2:J:45:A:N9	4:L:757:U:N1[3_546]	1.81	0.39
2:J:46:A:C6	4:L:756:U:C6[3_546]	1.81	0.39
2:J:163:A:C2	6:N:387:U:O2[4_456]	1.81	0.39
2:J:164:A:C5'	6:N:386:U:O3'[4_456]	1.81	0.39
2:J:165:A:N7	6:N:386:U:C4[4_456]	1.81	0.39
2:J:168:A:N3	6:N:383:U:O4[4_456]	1.81	0.39
2:J:168:A:N9	6:N:383:U:O4[4_456]	1.81	0.39
2:J:168:A:C2'	6:N:382:U:C5[4_456]	1.81	0.39
2:J:169:A:C1'	3:K:150:A:N1[4_456]	1.81	0.39
2:J:171:A:C4	3:K:149:A:O3'[4_456]	1.81	0.39
2:J:171:A:C8	3:K:150:A:C3'[4_456]	1.81	0.39
3:K:12:A:C4	5:M:313:U:C6[2_664]	1.81	0.39
3:K:17:A:O2'	5:M:305:U:O3'[2_664]	1.81	0.39
3:K:142:A:N6	5:M:390:U:C4'[4_556]	1.81	0.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:143:A:C5	5:M:389:U:O2'[4_556]	1.81	0.39
3:K:145:A:OP1	5:M:388:U:P[4_556]	1.81	0.39
3:K:145:A:C6	5:M:388:U:O4[4_556]	1.81	0.39
3:K:148:A:N7	5:M:385:U:O4[4_556]	1.81	0.39
3:K:149:A:P	5:M:384:U:C6[4_556]	1.81	0.39
3:K:149:A:OP1	5:M:384:U:O4'[4_556]	1.81	0.39
4:L:756:U:C4'	5:M:508:U:C2[3_556]	1.81	0.39
5:M:391:U:C4	6:N:388:U:C2[4_456]	1.81	0.39
1:I:63:A:O5'	5:M:504:U:C4[3_556]	1.82	0.38
1:I:63:A:C1'	5:M:503:U:O2'[3_556]	1.82	0.38
1:I:64:A:N9	5:M:502:U:O2'[3_556]	1.82	0.38
1:I:65:A:OP1	5:M:502:U:C6[3_556]	1.82	0.38
1:I:69:A:N6	2:J:46:A:P[3_556]	1.82	0.38
1:I:70:A:C8	2:J:46:A:C5'[3_556]	1.82	0.38
2:J:43:A:C4'	4:L:760:U:C3'[3_546]	1.82	0.38
2:J:44:A:C2'	4:L:758:U:N3[3_546]	1.82	0.38
2:J:47:A:C8	4:L:755:U:C6[3_546]	1.82	0.38
2:J:164:A:C3'	6:N:387:U:OP2[4_456]	1.82	0.38
2:J:168:A:C4	6:N:383:U:C4[4_456]	1.82	0.38
2:J:168:A:C5'	6:N:382:U:O3'[4_456]	1.82	0.38
2:J:170:A:C8	3:K:150:A:N9[4_456]	1.82	0.38
2:J:170:A:C4	3:K:150:A:N7[4_456]	1.82	0.38
2:J:242:A:N3	6:N:518:U:O4[2_666]	1.82	0.38
2:J:242:A:N7	6:N:517:U:O4[2_666]	1.82	0.38
2:J:242:A:O4'	3:K:15:A:N7[2_666]	1.82	0.38
2:J:242:A:C8	3:K:15:A:N6[2_666]	1.82	0.38
2:J:244:A:N9	6:N:517:U:O3'[2_666]	1.82	0.38
3:K:12:A:N1	5:M:312:U:C2[2_664]	1.82	0.38
3:K:143:A:N6	5:M:390:U:C1'[4_556]	1.82	0.38
3:K:143:A:C4	5:M:390:U:O5'[4_556]	1.82	0.38
3:K:144:A:C6	5:M:389:U:C2[4_556]	1.82	0.38
3:K:145:A:O5'	5:M:388:U:OP2[4_556]	1.82	0.38
4:L:469:U:O2	4:L:680:U:C6[3_546]	1.82	0.38
4:L:751:U:O3'	5:M:499:U:O4'[3_556]	1.82	0.38
4:L:752:U:O2'	5:M:498:U:O3'[3_556]	1.82	0.38
4:L:752:U:OP1	5:M:499:U:C2'[3_556]	1.82	0.38
4:L:756:U:OP1	5:M:507:U:C5[3_556]	1.82	0.38
4:L:757:U:P	5:M:509:U:C5[3_556]	1.82	0.38
4:L:757:U:C5'	5:M:509:U:C5[3_556]	1.82	0.38
1:I:62:A:N1	5:M:504:U:C5'[3_556]	1.83	0.37
1:I:62:A:P	5:M:505:U:O2'[3_556]	1.83	0.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:A:OP1	5:M:504:U:N3[3_556]	1.83	0.37
1:I:69:A:N3	2:J:45:A:C2'[3_556]	1.83	0.37
1:I:143:A:C5	4:L:471:U:C1'[3_556]	1.83	0.37
1:I:146:A:C2'	1:I:356:A:O5'[3_556]	1.83	0.37
1:I:146:A:N1	1:I:356:A:C6[3_556]	1.83	0.37
2:J:45:A:C6	4:L:757:U:C6[3_546]	1.83	0.37
2:J:47:A:N9	4:L:755:U:C2[3_546]	1.83	0.37
2:J:47:A:C2	4:L:755:U:C3'[3_546]	1.83	0.37
2:J:47:A:C4	4:L:755:U:C3'[3_546]	1.83	0.37
2:J:164:A:N7	6:N:387:U:C1'[4_456]	1.83	0.37
2:J:168:A:O3'	6:N:382:U:C2'[4_456]	1.83	0.37
2:J:236:A:C5'	6:N:522:U:C4'[2_666]	1.83	0.37
2:J:242:A:OP1	3:K:16:A:C6[2_666]	1.83	0.37
3:K:12:A:N6	5:M:312:U:C6[2_664]	1.83	0.37
3:K:143:A:C2'	5:M:389:U:O5'[4_556]	1.83	0.37
3:K:144:A:OP2	5:M:388:U:C2'[4_556]	1.83	0.37
3:K:148:A:N3	5:M:385:U:O4[4_556]	1.83	0.37
4:L:752:U:O3'	5:M:499:U:OP2[3_556]	1.83	0.37
4:L:756:U:C2'	5:M:508:U:O2[3_556]	1.83	0.37
4:L:757:U:C3'	5:M:509:U:O2[3_556]	1.83	0.37
5:M:391:U:C2	6:N:388:U:C3'[4_456]	1.83	0.37
5:M:391:U:C1'	6:N:388:U:C2'[4_456]	1.83	0.37
1:I:62:A:N9	5:M:505:U:O5'[3_556]	1.84	0.36
1:I:68:A:C5	2:J:45:A:OP1[3_556]	1.84	0.36
1:I:70:A:N1	2:J:46:A:C4'[3_556]	1.84	0.36
1:I:146:A:N6	1:I:355:A:C5[3_556]	1.84	0.36
1:I:146:A:C8	1:I:356:A:O5'[3_556]	1.84	0.36
1:I:146:A:N3	1:I:356:A:C8[3_556]	1.84	0.36
1:I:352:A:OP2	4:L:677:U:OP1[3_546]	1.84	0.36
2:J:44:A:N9	4:L:758:U:O2[3_546]	1.84	0.36
2:J:46:A:N3	4:L:755:U:O2[3_546]	1.84	0.36
2:J:164:A:O3'	6:N:387:U:OP2[4_456]	1.84	0.36
2:J:169:A:OP2	6:N:382:U:C2'[4_456]	1.84	0.36
2:J:169:A:N9	3:K:150:A:C6[4_456]	1.84	0.36
2:J:170:A:C5'	3:K:151:A:N9[4_456]	1.84	0.36
2:J:170:A:O5'	3:K:151:A:N7[4_456]	1.84	0.36
2:J:242:A:C2'	3:K:14:A:N1[2_666]	1.84	0.36
3:K:149:A:N9	5:M:383:U:O4[4_556]	1.84	0.36
4:L:468:U:O2	4:L:679:U:O2'[3_546]	1.84	0.36
4:L:757:U:O3'	5:M:510:U:N3[3_556]	1.84	0.36
5:M:312:U:OP1	6:N:520:U:C5[2_666]	1.84	0.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:391:U:O2	6:N:388:U:O4'[4_456]	1.84	0.36
1:I:62:A:C8	5:M:504:U:C3'[3_556]	1.85	0.35
1:I:66:A:OP1	5:M:502:U:P[3_556]	1.85	0.35
1:I:69:A:C6	2:J:45:A:C3'[3_556]	1.85	0.35
1:I:71:A:C6	2:J:47:A:O5'[3_556]	1.85	0.35
1:I:143:A:N9	4:L:471:U:O4'[3_556]	1.85	0.35
1:I:144:A:P	4:L:472:U:C2'[3_556]	1.85	0.35
1:I:149:A:OP1	4:L:465:U:C4[3_556]	1.85	0.35
1:I:149:A:O2'	4:L:466:U:O5'[3_556]	1.85	0.35
2:J:43:A:N7	4:L:760:U:OP2[3_546]	1.85	0.35
2:J:44:A:OP1	4:L:760:U:C1'[3_546]	1.85	0.35
2:J:47:A:C1'	4:L:755:U:O4'[3_546]	1.85	0.35
2:J:165:A:P	6:N:386:U:C4'[4_456]	1.85	0.35
2:J:168:A:C6	3:K:148:A:C6[4_456]	1.85	0.35
2:J:169:A:C5	3:K:149:A:N1[4_456]	1.85	0.35
2:J:242:A:C3'	3:K:15:A:C2[2_666]	1.85	0.35
3:K:143:A:N9	5:M:390:U:P[4_556]	1.85	0.35
3:K:144:A:OP2	5:M:388:U:O3'[4_556]	1.85	0.35
3:K:148:A:C6	5:M:385:U:O4[4_556]	1.85	0.35
5:M:312:U:C5'	6:N:520:U:C6[2_666]	1.85	0.35
5:M:390:U:C2	6:N:388:U:O4[4_456]	1.85	0.35
1:I:62:A:C5	5:M:505:U:OP1[3_556]	1.86	0.34
1:I:63:A:C8	5:M:504:U:O5'[3_556]	1.86	0.34
1:I:63:A:C4	5:M:503:U:C2'[3_556]	1.86	0.34
1:I:63:A:C3'	5:M:503:U:N3[3_556]	1.86	0.34
1:I:64:A:C2'	5:M:502:U:O4'[3_556]	1.86	0.34
1:I:64:A:N3	5:M:503:U:O5'[3_556]	1.86	0.34
1:I:64:A:C5'	5:M:502:U:C2[3_556]	1.86	0.34
1:I:66:A:C5'	5:M:502:U:P[3_556]	1.86	0.34
2:J:43:A:C2'	4:L:759:U:O2[3_546]	1.86	0.34
2:J:46:A:C8	4:L:756:U:C4[3_546]	1.86	0.34
2:J:47:A:C4	4:L:755:U:C6[3_546]	1.86	0.34
2:J:48:A:N9	4:L:755:U:OP1[3_546]	1.86	0.34
2:J:165:A:C6	3:K:145:A:N6[4_456]	1.86	0.34
2:J:167:A:N1	3:K:147:A:N6[4_456]	1.86	0.34
2:J:168:A:N9	6:N:383:U:C5[4_456]	1.86	0.34
2:J:170:A:N6	3:K:149:A:N9[4_456]	1.86	0.34
2:J:242:A:O5'	3:K:15:A:N6[2_666]	1.86	0.34
2:J:242:A:O3'	3:K:15:A:N9[2_666]	1.86	0.34
2:J:243:A:C8	6:N:517:U:N1[2_666]	1.86	0.34
3:K:146:A:C5	5:M:387:U:O4[4_556]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:757:U:C3'	5:M:509:U:C2[3_556]	1.86	0.34
5:M:312:U:C6	6:N:519:U:N3[2_666]	1.86	0.34
1:I:62:A:OP1	5:M:506:U:O5'[3_556]	1.87	0.33
1:I:64:A:OP1	2:J:51:A:C2[3_556]	1.87	0.33
1:I:65:A:C2'	5:M:502:U:P[3_556]	1.87	0.33
1:I:65:A:O3'	5:M:502:U:OP2[3_556]	1.87	0.33
2:J:43:A:C1'	4:L:760:U:C5'[3_546]	1.87	0.33
2:J:46:A:C5	4:L:756:U:C5[3_546]	1.87	0.33
2:J:46:A:C8	4:L:756:U:O2[3_546]	1.87	0.33
2:J:46:A:N7	4:L:756:U:C2[3_546]	1.87	0.33
2:J:47:A:C4'	4:L:754:U:C2[3_546]	1.87	0.33
2:J:47:A:C4	4:L:755:U:N1[3_546]	1.87	0.33
2:J:163:A:C2	6:N:387:U:C2'[4_456]	1.87	0.33
2:J:242:A:O2'	3:K:14:A:N1[2_666]	1.87	0.33
2:J:243:A:N7	6:N:517:U:C4[2_666]	1.87	0.33
3:K:143:A:C6	5:M:390:U:N1[4_556]	1.87	0.33
3:K:144:A:C2	5:M:390:U:C4[4_556]	1.87	0.33
3:K:147:A:C4	5:M:386:U:O4[4_556]	1.87	0.33
3:K:148:A:C5	5:M:385:U:N3[4_556]	1.87	0.33
3:K:149:A:O4'	5:M:383:U:C5[4_556]	1.87	0.33
4:L:752:U:C2'	5:M:499:U:OP1[3_556]	1.87	0.33
4:L:757:U:O3'	5:M:510:U:C6[3_556]	1.87	0.33
5:M:312:U:C5'	6:N:520:U:C5[2_666]	1.87	0.33
1:I:62:A:N9	5:M:505:U:P[3_556]	1.88	0.32
1:I:63:A:C6	5:M:504:U:P[3_556]	1.88	0.32
1:I:63:A:C5'	5:M:504:U:N1[3_556]	1.88	0.32
1:I:63:A:N3	5:M:503:U:C2'[3_556]	1.88	0.32
1:I:69:A:N7	2:J:46:A:OP1[3_556]	1.88	0.32
1:I:143:A:C5'	4:L:472:U:C6[3_556]	1.88	0.32
1:I:144:A:P	4:L:472:U:O2'[3_556]	1.88	0.32
2:J:44:A:P	4:L:760:U:C5[3_546]	1.88	0.32
2:J:46:A:C2	4:L:756:U:C6[3_546]	1.88	0.32
2:J:47:A:C3'	4:L:754:U:N1[3_546]	1.88	0.32
2:J:167:A:O3'	6:N:383:U:O5'[4_456]	1.88	0.32
2:J:169:A:P	6:N:382:U:N1[4_456]	1.88	0.32
2:J:169:A:C6	3:K:149:A:N1[4_456]	1.88	0.32
2:J:170:A:C3'	3:K:151:A:OP2[4_456]	1.88	0.32
2:J:242:A:C6	6:N:517:U:O4[2_666]	1.88	0.32
2:J:242:A:O2'	3:K:14:A:N3[2_666]	1.88	0.32
3:K:12:A:O4'	5:M:314:U:C4[2_664]	1.88	0.32
3:K:142:A:N1	5:M:390:U:O4'[4_556]	1.88	0.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:145:A:P	5:M:388:U:P[4_556]	1.88	0.32
3:K:147:A:C3'	5:M:385:U:O3'[4_556]	1.88	0.32
3:K:149:A:C3'	5:M:383:U:N3[4_556]	1.88	0.32
4:L:751:U:O3'	5:M:499:U:C1'[3_556]	1.88	0.32
4:L:755:U:O3'	5:M:507:U:C2[3_556]	1.88	0.32
4:L:756:U:O3'	5:M:508:U:N1[3_556]	1.88	0.32
4:L:757:U:C4'	5:M:509:U:N1[3_556]	1.88	0.32
4:L:757:U:O4'	5:M:509:U:C2[3_556]	1.88	0.32
5:M:391:U:O2	6:N:388:U:C1'[4_456]	1.88	0.32
1:I:62:A:O2'	5:M:504:U:C2[3_556]	1.89	0.31
1:I:62:A:C1'	5:M:504:U:C3'[3_556]	1.89	0.31
1:I:64:A:C8	5:M:503:U:O5'[3_556]	1.89	0.31
1:I:64:A:O5'	5:M:503:U:N1[3_556]	1.89	0.31
1:I:65:A:OP1	5:M:502:U:O4[3_556]	1.89	0.31
1:I:144:A:P	4:L:472:U:O4'[3_556]	1.89	0.31
1:I:351:A:C4'	4:L:677:U:OP1[3_546]	1.89	0.31
2:J:43:A:C8	4:L:759:U:O3'[3_546]	1.89	0.31
2:J:44:A:C2	4:L:758:U:N1[3_546]	1.89	0.31
2:J:45:A:N9	4:L:757:U:O2[3_546]	1.89	0.31
2:J:48:A:O5'	4:L:754:U:C1'[3_546]	1.89	0.31
2:J:48:A:OP1	4:L:753:U:O2[3_546]	1.89	0.31
2:J:165:A:OP2	6:N:386:U:O5'[4_456]	1.89	0.31
2:J:169:A:N9	3:K:150:A:N6[4_456]	1.89	0.31
2:J:169:A:N6	3:K:149:A:N1[4_456]	1.89	0.31
3:K:142:A:C2	5:M:390:U:C4'[4_556]	1.89	0.31
3:K:143:A:N3	5:M:390:U:OP2[4_556]	1.89	0.31
3:K:144:A:N6	5:M:389:U:O2[4_556]	1.89	0.31
3:K:147:A:P	5:M:386:U:OP1[4_556]	1.89	0.31
4:L:757:U:O5'	5:M:509:U:C5[3_556]	1.89	0.31
4:L:758:U:OP2	5:M:509:U:N3[3_556]	1.89	0.31
1:I:63:A:C3'	5:M:503:U:N1[3_556]	1.90	0.30
1:I:64:A:O3'	5:M:502:U:C5[3_556]	1.90	0.30
1:I:66:A:C4'	5:M:502:U:OP1[3_556]	1.90	0.30
1:I:69:A:C2	2:J:46:A:C5'[3_556]	1.90	0.30
2:J:42:A:C4	4:L:759:U:O3'[3_546]	1.90	0.30
2:J:42:A:C2'	4:L:760:U:C5'[3_546]	1.90	0.30
2:J:43:A:C2'	4:L:759:U:N1[3_546]	1.90	0.30
2:J:45:A:C5	4:L:758:U:C5[3_546]	1.90	0.30
2:J:45:A:N9	4:L:758:U:C5[3_546]	1.90	0.30
2:J:47:A:N7	4:L:756:U:C6[3_546]	1.90	0.30
2:J:49:A:OP1	4:L:753:U:C2'[3_546]	1.90	0.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:168:A:OP2	6:N:383:U:O5'[4_456]	1.90	0.30
2:J:170:A:N1	3:K:149:A:C2'[4_456]	1.90	0.30
2:J:237:A:P	6:N:522:U:O2'[2_666]	1.90	0.30
2:J:242:A:O4'	3:K:15:A:C5[2_666]	1.90	0.30
2:J:243:A:C2	6:N:518:U:C6[2_666]	1.90	0.30
3:K:142:A:C6	5:M:390:U:C5'[4_556]	1.90	0.30
3:K:143:A:C1'	5:M:390:U:P[4_556]	1.90	0.30
3:K:144:A:C5	5:M:389:U:C6[4_556]	1.90	0.30
3:K:147:A:O5'	5:M:386:U:OP1[4_556]	1.90	0.30
3:K:147:A:C3'	5:M:386:U:OP2[4_556]	1.90	0.30
3:K:147:A:C4	5:M:386:U:C5[4_556]	1.90	0.30
4:L:752:U:P	5:M:500:U:OP2[3_556]	1.90	0.30
4:L:752:U:O5'	5:M:500:U:OP2[3_556]	1.90	0.30
4:L:756:U:OP1	5:M:507:U:C6[3_556]	1.90	0.30
5:M:392:U:OP2	6:N:389:U:O3'[4_456]	1.90	0.30
1:I:64:A:O3'	5:M:502:U:N3[3_556]	1.91	0.29
1:I:68:A:C4	2:J:45:A:C5'[3_556]	1.91	0.29
1:I:71:A:N3	2:J:46:A:O2'[3_556]	1.91	0.29
1:I:143:A:C3'	4:L:472:U:N1[3_556]	1.91	0.29
1:I:352:A:O2'	4:L:675:U:OP2[3_546]	1.91	0.29
2:J:42:A:C2'	4:L:760:U:P[3_546]	1.91	0.29
2:J:43:A:C4'	4:L:760:U:O5'[3_546]	1.91	0.29
2:J:44:A:OP2	4:L:760:U:N1[3_546]	1.91	0.29
2:J:44:A:C2	4:L:758:U:C5[3_546]	1.91	0.29
2:J:47:A:O3'	4:L:754:U:C4[3_546]	1.91	0.29
2:J:48:A:C5'	4:L:754:U:C2'[3_546]	1.91	0.29
2:J:164:A:OP2	6:N:386:U:O2'[4_456]	1.91	0.29
2:J:164:A:O3'	6:N:386:U:C3'[4_456]	1.91	0.29
2:J:166:A:N6	3:K:146:A:N6[4_456]	1.91	0.29
2:J:167:A:C3'	6:N:384:U:OP2[4_456]	1.91	0.29
2:J:168:A:C3'	6:N:382:U:N1[4_456]	1.91	0.29
2:J:168:A:N9	6:N:383:U:C4[4_456]	1.91	0.29
2:J:170:A:C8	3:K:150:A:N3[4_456]	1.91	0.29
2:J:242:A:C1'	3:K:14:A:N6[2_666]	1.91	0.29
3:K:12:A:N6	5:M:312:U:O4[2_664]	1.91	0.29
3:K:13:A:N9	5:M:313:U:C1'[2_664]	1.91	0.29
3:K:143:A:C4	5:M:389:U:O3'[4_556]	1.91	0.29
3:K:145:A:OP2	5:M:388:U:C5'[4_556]	1.91	0.29
3:K:146:A:C6	5:M:387:U:C4[4_556]	1.91	0.29
3:K:147:A:C8	5:M:386:U:C5[4_556]	1.91	0.29
3:K:148:A:C5'	5:M:384:U:C3'[4_556]	1.91	0.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:312:U:N1	6:N:519:U:N3[2_666]	1.91	0.29
5:M:312:U:O4'	6:N:519:U:N1[2_666]	1.91	0.29
1:I:62:A:OP1	5:M:505:U:O2'[3_556]	1.92	0.28
1:I:64:A:O5'	5:M:503:U:C2[3_556]	1.92	0.28
1:I:69:A:C4	2:J:46:A:P[3_556]	1.92	0.28
1:I:142:A:N3	4:L:471:U:C4'[3_556]	1.92	0.28
1:I:143:A:N9	4:L:471:U:C3'[3_556]	1.92	0.28
1:I:146:A:C4	1:I:356:A:N9[3_556]	1.92	0.28
1:I:146:A:N6	1:I:355:A:C2[3_556]	1.92	0.28
1:I:356:A:C2	4:L:680:U:N1[3_546]	1.92	0.28
2:J:43:A:C5'	4:L:760:U:O3'[3_546]	1.92	0.28
2:J:44:A:N9	4:L:758:U:N1[3_546]	1.92	0.28
2:J:44:A:C4'	4:L:759:U:C2[3_546]	1.92	0.28
2:J:46:A:C1'	4:L:756:U:C2[3_546]	1.92	0.28
2:J:47:A:O2'	4:L:754:U:C2[3_546]	1.92	0.28
2:J:47:A:O5'	4:L:755:U:N3[3_546]	1.92	0.28
2:J:49:A:P	4:L:753:U:O3'[3_546]	1.92	0.28
2:J:170:A:OP2	3:K:151:A:C1'[4_456]	1.92	0.28
2:J:170:A:O5'	3:K:151:A:C1'[4_456]	1.92	0.28
2:J:170:A:N6	3:K:149:A:C2[4_456]	1.92	0.28
2:J:242:A:O4'	3:K:15:A:C6[2_666]	1.92	0.28
2:J:243:A:C5	6:N:517:U:C2[2_666]	1.92	0.28
3:K:12:A:C6	5:M:312:U:C4[2_664]	1.92	0.28
3:K:18:A:C5'	5:M:305:U:C4'[2_664]	1.92	0.28
3:K:149:A:C5'	5:M:383:U:C1'[4_556]	1.92	0.28
4:L:469:U:C6	4:L:679:U:C2'[3_546]	1.92	0.28
4:L:752:U:O4'	5:M:499:U:C5'[3_556]	1.92	0.28
5:M:391:U:N3	6:N:388:U:C2'[4_456]	1.92	0.28
1:I:62:A:OP1	5:M:506:U:O4'[3_556]	1.93	0.27
1:I:63:A:C5	5:M:504:U:O5'[3_556]	1.93	0.27
1:I:65:A:N9	5:M:502:U:C3'[3_556]	1.93	0.27
1:I:69:A:C2	2:J:46:A:O5'[3_556]	1.93	0.27
1:I:70:A:N7	2:J:46:A:OP1[3_556]	1.93	0.27
1:I:142:A:N3	4:L:471:U:C3'[3_556]	1.93	0.27
1:I:149:A:C3'	4:L:466:U:C6[3_556]	1.93	0.27
1:I:356:A:N1	4:L:680:U:C5[3_546]	1.93	0.27
2:J:43:A:C2	4:L:758:U:O3'[3_546]	1.93	0.27
2:J:44:A:P	4:L:760:U:C2[3_546]	1.93	0.27
2:J:44:A:O4'	4:L:758:U:O2[3_546]	1.93	0.27
2:J:45:A:N3	4:L:757:U:C5[3_546]	1.93	0.27
2:J:47:A:O4'	4:L:755:U:N1[3_546]	1.93	0.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:163:A:C4	6:N:387:U:C2'[4_456]	1.93	0.27
2:J:169:A:N9	6:N:382:U:O4[4_456]	1.93	0.27
2:J:170:A:OP1	3:K:151:A:N9[4_456]	1.93	0.27
2:J:240:A:N1	3:K:12:A:O5'[2_666]	1.93	0.27
2:J:242:A:N3	3:K:14:A:N6[2_666]	1.93	0.27
3:K:13:A:N6	5:M:312:U:O2[2_664]	1.93	0.27
3:K:143:A:O3'	5:M:389:U:P[4_556]	1.93	0.27
3:K:144:A:O5'	5:M:389:U:OP1[4_556]	1.93	0.27
3:K:147:A:N7	5:M:386:U:C4[4_556]	1.93	0.27
3:K:148:A:OP2	5:M:385:U:O5'[4_556]	1.93	0.27
3:K:149:A:O5'	5:M:384:U:C6[4_556]	1.93	0.27
3:K:149:A:C2'	5:M:383:U:N3[4_556]	1.93	0.27
4:L:469:U:C4	4:L:679:U:O4'[3_546]	1.93	0.27
4:L:752:U:C2'	5:M:499:U:P[3_556]	1.93	0.27
5:M:392:U:C5	6:N:388:U:O2'[4_456]	1.93	0.27
1:I:61:A:N3	5:M:504:U:O3'[3_556]	1.94	0.26
1:I:63:A:C5'	5:M:504:U:C2[3_556]	1.94	0.26
1:I:64:A:C2'	5:M:502:U:C3'[3_556]	1.94	0.26
1:I:142:A:C2	4:L:471:U:C4'[3_556]	1.94	0.26
1:I:142:A:C5	4:L:471:U:C5'[3_556]	1.94	0.26
1:I:144:A:OP2	4:L:472:U:O4'[3_556]	1.94	0.26
1:I:146:A:O4'	1:I:356:A:C4'[3_556]	1.94	0.26
1:I:149:A:O2'	4:L:466:U:C6[3_556]	1.94	0.26
2:J:45:A:C6	4:L:757:U:C5[3_546]	1.94	0.26
2:J:46:A:N7	4:L:756:U:C4[3_546]	1.94	0.26
2:J:46:A:C5	4:L:756:U:C2[3_546]	1.94	0.26
2:J:48:A:OP1	4:L:754:U:C4[3_546]	1.94	0.26
2:J:48:A:C5'	4:L:754:U:C6[3_546]	1.94	0.26
2:J:166:A:C5	6:N:385:U:O4[4_456]	1.94	0.26
2:J:168:A:C6	6:N:383:U:O4[4_456]	1.94	0.26
2:J:169:A:O5'	6:N:381:U:O2[4_456]	1.94	0.26
2:J:242:A:C3'	3:K:15:A:N3[2_666]	1.94	0.26
3:K:12:A:C2'	5:M:313:U:N3[2_664]	1.94	0.26
3:K:143:A:C2'	5:M:389:U:C5'[4_556]	1.94	0.26
3:K:146:A:C3'	5:M:387:U:OP2[4_556]	1.94	0.26
4:L:469:U:N1	4:L:680:U:OP2[3_546]	1.94	0.26
4:L:751:U:O3'	5:M:499:U:O3'[3_556]	1.94	0.26
4:L:756:U:C3'	5:M:508:U:C4[3_556]	1.94	0.26
5:M:390:U:N1	6:N:388:U:N3[4_456]	1.94	0.26
5:M:390:U:N3	6:N:388:U:C2[4_456]	1.94	0.26
5:M:392:U:C5'	6:N:389:U:P[4_456]	1.94	0.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:64:A:O4'	5:M:503:U:O4'[3_556]	1.95	0.25
1:I:64:A:C1'	5:M:502:U:C1'[3_556]	1.95	0.25
1:I:65:A:O2'	5:M:502:U:C5'[3_556]	1.95	0.25
1:I:65:A:O4'	5:M:502:U:O5'[3_556]	1.95	0.25
1:I:146:A:N1	1:I:356:A:C8[3_556]	1.95	0.25
1:I:146:A:C8	1:I:355:A:C2'[3_556]	1.95	0.25
1:I:150:A:N9	4:L:466:U:OP1[3_556]	1.95	0.25
1:I:356:A:N1	4:L:680:U:C4[3_546]	1.95	0.25
2:J:42:A:N6	4:L:759:U:OP1[3_546]	1.95	0.25
2:J:46:A:C2	4:L:756:U:C4'[3_546]	1.95	0.25
2:J:47:A:N1	4:L:756:U:P[3_546]	1.95	0.25
2:J:47:A:O2'	4:L:754:U:N1[3_546]	1.95	0.25
2:J:47:A:C4'	4:L:754:U:N3[3_546]	1.95	0.25
2:J:48:A:O4'	4:L:755:U:C5'[3_546]	1.95	0.25
2:J:165:A:C5	6:N:387:U:O4[4_456]	1.95	0.25
2:J:167:A:O5'	6:N:384:U:OP1[4_456]	1.95	0.25
2:J:168:A:C4'	6:N:382:U:C3'[4_456]	1.95	0.25
2:J:168:A:O2'	6:N:382:U:C5[4_456]	1.95	0.25
2:J:170:A:O2'	3:K:151:A:OP2[4_456]	1.95	0.25
2:J:171:A:OP2	3:K:151:A:O5'[4_456]	1.95	0.25
2:J:240:A:C4	3:K:12:A:OP1[2_666]	1.95	0.25
2:J:240:A:N7	3:K:12:A:OP1[2_666]	1.95	0.25
3:K:12:A:C4'	5:M:314:U:N3[2_664]	1.95	0.25
3:K:143:A:O3'	5:M:389:U:O5'[4_556]	1.95	0.25
3:K:144:A:N1	5:M:389:U:N3[4_556]	1.95	0.25
3:K:147:A:O3'	5:M:385:U:C5'[4_556]	1.95	0.25
4:L:758:U:P	5:M:509:U:N3[3_556]	1.95	0.25
5:M:391:U:N1	6:N:388:U:C1'[4_456]	1.95	0.25
1:I:61:A:P	5:M:506:U:OP1[3_556]	1.96	0.24
1:I:63:A:C2	5:M:504:U:P[3_556]	1.96	0.24
1:I:65:A:O5'	5:M:502:U:C5[3_556]	1.96	0.24
1:I:65:A:C5	5:M:503:U:OP2[3_556]	1.96	0.24
1:I:70:A:C6	2:J:46:A:C4'[3_556]	1.96	0.24
1:I:143:A:C2'	4:L:471:U:O2'[3_556]	1.96	0.24
1:I:144:A:OP2	4:L:472:U:C2[3_556]	1.96	0.24
1:I:351:A:O3'	4:L:676:U:O3'[3_546]	1.96	0.24
2:J:47:A:C4	4:L:755:U:C1'[3_546]	1.96	0.24
2:J:48:A:N9	4:L:754:U:C3'[3_546]	1.96	0.24
2:J:163:A:C2'	6:N:387:U:O4'[4_456]	1.96	0.24
2:J:166:A:OP2	6:N:386:U:OP2[4_456]	1.96	0.24
2:J:170:A:O5'	3:K:151:A:C4[4_456]	1.96	0.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:240:A:N7	3:K:12:A:P[2_666]	1.96	0.24
2:J:242:A:O5'	3:K:15:A:C6[2_666]	1.96	0.24
2:J:243:A:C4	6:N:518:U:C6[2_666]	1.96	0.24
3:K:13:A:O4'	5:M:313:U:C4'[2_664]	1.96	0.24
3:K:142:A:C6	5:M:390:U:O4'[4_556]	1.96	0.24
3:K:142:A:N1	5:M:390:U:O5'[4_556]	1.96	0.24
3:K:146:A:N6	5:M:387:U:C4[4_556]	1.96	0.24
3:K:148:A:OP1	5:M:385:U:P[4_556]	1.96	0.24
3:K:148:A:N7	5:M:385:U:C5[4_556]	1.96	0.24
3:K:149:A:C3'	5:M:383:U:C2[4_556]	1.96	0.24
5:M:391:U:O2'	6:N:388:U:O3'[4_456]	1.96	0.24
5:M:391:U:OP2	6:N:389:U:N3[4_456]	1.96	0.24
1:I:61:A:C4	5:M:505:U:OP1[3_556]	1.97	0.23
1:I:62:A:P	5:M:506:U:O5'[3_556]	1.97	0.23
1:I:63:A:OP2	5:M:504:U:C4[3_556]	1.97	0.23
1:I:64:A:O5'	5:M:502:U:O2[3_556]	1.97	0.23
1:I:65:A:P	5:M:502:U:C2[3_556]	1.97	0.23
1:I:65:A:C5'	5:M:502:U:N1[3_556]	1.97	0.23
1:I:143:A:C6	4:L:471:U:O4'[3_556]	1.97	0.23
1:I:149:A:O2'	4:L:466:U:C3'[3_556]	1.97	0.23
2:J:44:A:O2'	4:L:758:U:O2[3_546]	1.97	0.23
2:J:47:A:C2'	4:L:754:U:C1'[3_546]	1.97	0.23
2:J:48:A:O4'	4:L:755:U:O5'[3_546]	1.97	0.23
2:J:48:A:OP1	4:L:753:U:N3[3_546]	1.97	0.23
2:J:163:A:C2	6:N:388:U:C6[4_456]	1.97	0.23
2:J:163:A:C1'	6:N:387:U:O2'[4_456]	1.97	0.23
2:J:167:A:OP2	6:N:384:U:C4'[4_456]	1.97	0.23
2:J:170:A:C2	3:K:150:A:O5'[4_456]	1.97	0.23
2:J:242:A:C2'	3:K:15:A:C5[2_666]	1.97	0.23
2:J:242:A:N9	6:N:517:U:O4[2_666]	1.97	0.23
5:M:391:U:C1'	6:N:389:U:OP2[4_456]	1.97	0.23
1:I:61:A:C6	5:M:505:U:OP1[3_556]	1.98	0.22
1:I:62:A:C2	5:M:504:U:C4'[3_556]	1.98	0.22
1:I:62:A:OP1	5:M:506:U:C5'[3_556]	1.98	0.22
1:I:63:A:OP2	5:M:505:U:O4[3_556]	1.98	0.22
1:I:68:A:N6	2:J:45:A:O5'[3_556]	1.98	0.22
1:I:70:A:N7	2:J:46:A:O5'[3_556]	1.98	0.22
1:I:70:A:C5	2:J:46:A:C3'[3_556]	1.98	0.22
1:I:71:A:C5	2:J:47:A:P[3_556]	1.98	0.22
1:I:142:A:C6	4:L:471:U:C5'[3_556]	1.98	0.22
1:I:142:A:N7	4:L:471:U:OP1[3_556]	1.98	0.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:146:A:C5	1:I:356:A:N9[3_556]	1.98	0.22
2:J:43:A:C3'	4:L:760:U:C1'[3_546]	1.98	0.22
2:J:44:A:C4'	4:L:759:U:O2[3_546]	1.98	0.22
2:J:45:A:C8	4:L:757:U:C4[3_546]	1.98	0.22
2:J:45:A:C2	4:L:756:U:O2[3_546]	1.98	0.22
2:J:163:A:C4	6:N:387:U:C1'[4_456]	1.98	0.22
2:J:168:A:C3'	6:N:382:U:C3'[4_456]	1.98	0.22
2:J:169:A:C4'	6:N:381:U:N3[4_456]	1.98	0.22
2:J:169:A:N1	3:K:149:A:C6[4_456]	1.98	0.22
2:J:169:A:C5'	6:N:381:U:C2[4_456]	1.98	0.22
2:J:170:A:O3'	3:K:151:A:P[4_456]	1.98	0.22
2:J:244:A:C6	6:N:517:U:C3'[2_666]	1.98	0.22
3:K:17:A:C4'	5:M:305:U:OP1[2_664]	1.98	0.22
3:K:148:A:C3'	5:M:384:U:N1[4_556]	1.98	0.22
3:K:148:A:P	5:M:385:U:C4'[4_556]	1.98	0.22
3:K:148:A:OP1	5:M:384:U:O3'[4_556]	1.98	0.22
3:K:149:A:P	5:M:384:U:N1[4_556]	1.98	0.22
5:M:391:U:C1'	6:N:388:U:O3'[4_456]	1.98	0.22
5:M:391:U:C2	6:N:388:U:O4'[4_456]	1.98	0.22
1:I:59:A:C5'	2:J:41:A:OP1[3_556]	1.99	0.21
1:I:62:A:P	5:M:506:U:P[3_556]	1.99	0.21
1:I:63:A:O5'	5:M:504:U:C5[3_556]	1.99	0.21
1:I:69:A:C8	2:J:45:A:O3'[3_556]	1.99	0.21
1:I:146:A:C5'	1:I:356:A:OP1[3_556]	1.99	0.21
1:I:356:A:N6	4:L:679:U:C4[3_546]	1.99	0.21
2:J:43:A:C3'	4:L:760:U:C6[3_546]	1.99	0.21
2:J:45:A:N3	4:L:756:U:O2[3_546]	1.99	0.21
2:J:46:A:C1'	4:L:756:U:O2[3_546]	1.99	0.21
2:J:47:A:O4'	4:L:755:U:C2[3_546]	1.99	0.21
2:J:164:A:C3'	6:N:387:U:O5'[4_456]	1.99	0.21
2:J:164:A:C4	6:N:387:U:N3[4_456]	1.99	0.21
2:J:168:A:N7	6:N:383:U:O4[4_456]	1.99	0.21
2:J:168:A:O5'	6:N:383:U:P[4_456]	1.99	0.21
2:J:168:A:C5'	6:N:382:U:C3'[4_456]	1.99	0.21
2:J:170:A:C3'	3:K:151:A:O5'[4_456]	1.99	0.21
2:J:243:A:C1'	6:N:517:U:O2[2_666]	1.99	0.21
2:J:243:A:N7	6:N:517:U:C5[2_666]	1.99	0.21
2:J:244:A:C8	6:N:517:U:O3'[2_666]	1.99	0.21
3:K:12:A:C3'	5:M:313:U:N3[2_664]	1.99	0.21
3:K:13:A:C1'	5:M:313:U:C1'[2_664]	1.99	0.21
3:K:143:A:N6	5:M:390:U:N1[4_556]	1.99	0.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:144:A:C5	5:M:389:U:C2[4_556]	1.99	0.21
3:K:146:A:C5'	5:M:387:U:OP2[4_556]	1.99	0.21
3:K:147:A:C4	5:M:386:U:C4[4_556]	1.99	0.21
3:K:148:A:O3'	5:M:384:U:O5'[4_556]	1.99	0.21
3:K:149:A:OP2	5:M:384:U:C6[4_556]	1.99	0.21
4:L:469:U:C4	4:L:679:U:C6[3_546]	1.99	0.21
4:L:470:U:O2	4:L:680:U:O4[3_546]	1.99	0.21
4:L:751:U:C3'	5:M:499:U:O4'[3_556]	1.99	0.21
5:M:311:U:C2	6:N:519:U:O4[2_666]	1.99	0.21
1:I:61:A:OP1	5:M:506:U:OP1[3_556]	2.00	0.20
1:I:64:A:C2	5:M:503:U:OP2[3_556]	2.00	0.20
1:I:70:A:C2	2:J:46:A:O3'[3_556]	2.00	0.20
2:J:42:A:N1	4:L:759:U:C5'[3_546]	2.00	0.20
2:J:44:A:N3	4:L:758:U:C5[3_546]	2.00	0.20
2:J:49:A:P	4:L:753:U:O2'[3_546]	2.00	0.20
2:J:165:A:P	6:N:386:U:C3'[4_456]	2.00	0.20
2:J:168:A:C5	6:N:383:U:N3[4_456]	2.00	0.20
2:J:170:A:N6	3:K:149:A:C5[4_456]	2.00	0.20
2:J:242:A:C4'	3:K:15:A:C4[2_666]	2.00	0.20
2:J:242:A:C5'	3:K:15:A:C5[2_666]	2.00	0.20
3:K:12:A:O3'	5:M:314:U:N1[2_664]	2.00	0.20
3:K:12:A:O4'	5:M:314:U:C5[2_664]	2.00	0.20
3:K:144:A:N1	5:M:390:U:O4[4_556]	2.00	0.20
3:K:145:A:P	5:M:388:U:OP2[4_556]	2.00	0.20
3:K:146:A:C3'	5:M:386:U:C3'[4_556]	2.00	0.20
3:K:147:A:P	5:M:386:U:P[4_556]	2.00	0.20
4:L:756:U:O3'	5:M:508:U:O2[3_556]	2.00	0.20
4:L:757:U:P	5:M:509:U:C4[3_556]	2.00	0.20
5:M:312:U:OP2	6:N:520:U:C5[2_666]	2.00	0.20
5:M:391:U:N1	6:N:388:U:C3'[4_456]	2.00	0.20
5:M:391:U:O2	6:N:388:U:O3'[4_456]	2.00	0.20
5:M:391:U:C6	6:N:388:U:C2[4_456]	2.00	0.20
1:I:62:A:P	5:M:505:U:O3'[3_556]	2.01	0.19
1:I:62:A:N9	5:M:504:U:O2'[3_556]	2.01	0.19
1:I:64:A:O2'	5:M:502:U:C2'[3_556]	2.01	0.19
1:I:67:A:C5	2:J:45:A:P[3_556]	2.01	0.19
2:J:43:A:C5'	4:L:760:U:O5'[3_546]	2.01	0.19
2:J:44:A:P	4:L:760:U:C1'[3_546]	2.01	0.19
2:J:46:A:C2	4:L:756:U:C1'[3_546]	2.01	0.19
2:J:48:A:C4'	4:L:754:U:O2'[3_546]	2.01	0.19
2:J:49:A:OP2	4:L:754:U:C5'[3_546]	2.01	0.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:167:A:C5	6:N:384:U:C5[4_456]	2.01	0.19
2:J:169:A:N7	3:K:149:A:N1[4_456]	2.01	0.19
2:J:169:A:N1	3:K:149:A:C5[4_456]	2.01	0.19
2:J:169:A:O3'	3:K:151:A:C2[4_456]	2.01	0.19
2:J:170:A:C4	3:K:150:A:N9[4_456]	2.01	0.19
2:J:170:A:C2	3:K:150:A:OP2[4_456]	2.01	0.19
2:J:171:A:OP2	3:K:151:A:OP2[4_456]	2.01	0.19
3:K:12:A:C6	5:M:312:U:C2[2_664]	2.01	0.19
3:K:13:A:N6	5:M:312:U:C2[2_664]	2.01	0.19
3:K:148:A:O3'	5:M:384:U:N1[4_556]	2.01	0.19
3:K:149:A:P	5:M:384:U:C1'[4_556]	2.01	0.19
3:K:149:A:O5'	5:M:383:U:C2[4_556]	2.01	0.19
4:L:469:U:O4'	4:L:680:U:OP1[3_546]	2.01	0.19
4:L:469:U:C2'	4:L:680:U:P[3_546]	2.01	0.19
4:L:751:U:O2'	5:M:499:U:C4'[3_556]	2.01	0.19
5:M:391:U:C2'	6:N:388:U:O3'[4_456]	2.01	0.19
1:I:62:A:N1	5:M:504:U:P[3_556]	2.02	0.18
1:I:64:A:C5	5:M:503:U:P[3_556]	2.02	0.18
1:I:67:A:C5	2:J:45:A:OP2[3_556]	2.02	0.18
1:I:69:A:N3	2:J:45:A:O3'[3_556]	2.02	0.18
1:I:71:A:C6	2:J:46:A:O3'[3_556]	2.02	0.18
1:I:143:A:O4'	4:L:472:U:C5'[3_556]	2.02	0.18
1:I:146:A:C4	1:I:356:A:N7[3_556]	2.02	0.18
1:I:146:A:C2	1:I:356:A:C8[3_556]	2.02	0.18
1:I:356:A:N3	4:L:680:U:O2[3_546]	2.02	0.18
2:J:43:A:N3	4:L:759:U:O5'[3_546]	2.02	0.18
2:J:46:A:C8	4:L:757:U:C5[3_546]	2.02	0.18
2:J:48:A:P	4:L:754:U:C2[3_546]	2.02	0.18
2:J:167:A:C4	6:N:384:U:O4[4_456]	2.02	0.18
2:J:168:A:C4'	6:N:383:U:OP2[4_456]	2.02	0.18
2:J:168:A:O3'	6:N:382:U:C6[4_456]	2.02	0.18
2:J:169:A:C1'	6:N:381:U:C4[4_456]	2.02	0.18
2:J:169:A:N1	3:K:149:A:N6[4_456]	2.02	0.18
2:J:170:A:C5	3:K:150:A:C4[4_456]	2.02	0.18
2:J:242:A:C1'	3:K:14:A:N1[2_666]	2.02	0.18
3:K:12:A:N7	5:M:313:U:C4[2_664]	2.02	0.18
3:K:145:A:C5	5:M:388:U:O4[4_556]	2.02	0.18
3:K:148:A:O3'	5:M:384:U:C4'[4_556]	2.02	0.18
3:K:148:A:O3'	5:M:384:U:C1'[4_556]	2.02	0.18
4:L:756:U:P	5:M:507:U:C4[3_556]	2.02	0.18
4:L:758:U:O3'	5:M:511:U:N3[3_556]	2.02	0.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:310:U:O4	6:N:517:U:P[2_666]	2.02	0.18
5:M:312:U:C6	6:N:519:U:C4[2_666]	2.02	0.18
5:M:312:U:C1'	6:N:519:U:C2[2_666]	2.02	0.18
5:M:391:U:O4	6:N:388:U:O2[4_456]	2.02	0.18
5:M:391:U:C5	6:N:389:U:C6[4_456]	2.02	0.18
1:I:64:A:OP2	5:M:503:U:C2[3_556]	2.03	0.17
1:I:65:A:N9	5:M:503:U:OP2[3_556]	2.03	0.17
1:I:68:A:N1	2:J:45:A:O4'[3_556]	2.03	0.17
1:I:142:A:N9	4:L:471:U:O3'[3_556]	2.03	0.17
1:I:146:A:C2'	1:I:356:A:P[3_556]	2.03	0.17
2:J:43:A:O2'	4:L:759:U:C1'[3_546]	2.03	0.17
2:J:46:A:N1	4:L:756:U:C6[3_546]	2.03	0.17
2:J:47:A:C2	4:L:755:U:C4'[3_546]	2.03	0.17
2:J:48:A:C3'	4:L:754:U:O5'[3_546]	2.03	0.17
2:J:163:A:C2'	6:N:387:U:C4'[4_456]	2.03	0.17
2:J:164:A:C4'	6:N:387:U:OP1[4_456]	2.03	0.17
2:J:165:A:OP1	6:N:386:U:O5'[4_456]	2.03	0.17
2:J:166:A:C6	6:N:385:U:C4[4_456]	2.03	0.17
2:J:167:A:OP1	6:N:384:U:P[4_456]	2.03	0.17
2:J:168:A:P	6:N:383:U:P[4_456]	2.03	0.17
2:J:241:A:OP1	6:N:514:U:C5[2_666]	2.03	0.17
2:J:244:A:N7	6:N:517:U:C1'[2_666]	2.03	0.17
3:K:12:A:C2	5:M:312:U:C2'[2_664]	2.03	0.17
3:K:142:A:N6	5:M:390:U:O2'[4_556]	2.03	0.17
3:K:142:A:C4	5:M:390:U:C5'[4_556]	2.03	0.17
3:K:143:A:C3'	5:M:389:U:C4'[4_556]	2.03	0.17
3:K:144:A:N1	5:M:389:U:O4[4_556]	2.03	0.17
3:K:147:A:O3'	5:M:385:U:O5'[4_556]	2.03	0.17
3:K:147:A:N7	5:M:386:U:C6[4_556]	2.03	0.17
3:K:149:A:O4'	5:M:383:U:N1[4_556]	2.03	0.17
4:L:469:U:C2	4:L:679:U:C2'[3_546]	2.03	0.17
5:M:309:U:O4	6:N:516:U:O3'[2_666]	2.03	0.17
5:M:312:U:C5	6:N:519:U:O4[2_666]	2.03	0.17
5:M:312:U:OP2	6:N:520:U:N3[2_666]	2.03	0.17
5:M:390:U:O3'	6:N:389:U:N3[4_456]	2.03	0.17
5:M:391:U:OP1	6:N:390:U:O4[4_456]	2.03	0.17
1:I:62:A:C5'	5:M:505:U:C2'[3_556]	2.04	0.16
1:I:64:A:C2'	5:M:502:U:O2'[3_556]	2.04	0.16
1:I:65:A:O2'	5:M:502:U:OP1[3_556]	2.04	0.16
1:I:66:A:O5'	5:M:502:U:OP2[3_556]	2.04	0.16
1:I:142:A:O2'	4:L:472:U:P[3_556]	2.04	0.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:149:A:O3'	4:L:466:U:C6[3_556]	2.04	0.16
1:I:149:A:O2'	4:L:466:U:C1'[3_556]	2.04	0.16
2:J:43:A:C2'	4:L:759:U:O2'[3_546]	2.04	0.16
2:J:44:A:P	4:L:759:U:O2[3_546]	2.04	0.16
2:J:45:A:C8	4:L:758:U:N3[3_546]	2.04	0.16
2:J:47:A:C2'	4:L:755:U:C6[3_546]	2.04	0.16
2:J:48:A:C2'	4:L:754:U:C5'[3_546]	2.04	0.16
2:J:165:A:OP1	6:N:386:U:OP1[4_456]	2.04	0.16
2:J:166:A:N6	6:N:385:U:C4[4_456]	2.04	0.16
2:J:167:A:N6	3:K:147:A:N1[4_456]	2.04	0.16
2:J:169:A:O3'	3:K:151:A:N9[4_456]	2.04	0.16
2:J:170:A:C6	3:K:149:A:C4[4_456]	2.04	0.16
2:J:170:A:C5'	3:K:151:A:N7[4_456]	2.04	0.16
2:J:242:A:C5'	3:K:15:A:C6[2_666]	2.04	0.16
2:J:242:A:OP1	3:K:16:A:C5[2_666]	2.04	0.16
2:J:244:A:C6	6:N:517:U:O3'[2_666]	2.04	0.16
3:K:12:A:O3'	5:M:314:U:C5[2_664]	2.04	0.16
3:K:144:A:O5'	5:M:388:U:C3'[4_556]	2.04	0.16
3:K:145:A:P	5:M:388:U:OP1[4_556]	2.04	0.16
3:K:148:A:P	5:M:385:U:P[4_556]	2.04	0.16
4:L:758:U:C5'	5:M:510:U:O2[3_556]	2.04	0.16
4:L:759:U:OP1	5:M:511:U:O4[3_556]	2.04	0.16
1:I:62:A:P	5:M:505:U:C1'[3_556]	2.05	0.15
1:I:68:A:C5	2:J:45:A:O5'[3_556]	2.05	0.15
1:I:71:A:N1	2:J:47:A:P[3_556]	2.05	0.15
1:I:143:A:N7	4:L:471:U:C3'[3_556]	2.05	0.15
1:I:145:A:C2	1:I:356:A:O4'[3_556]	2.05	0.15
1:I:146:A:C3'	1:I:356:A:OP2[3_556]	2.05	0.15
1:I:149:A:C5'	4:L:466:U:C4[3_556]	2.05	0.15
1:I:149:A:C4'	4:L:466:U:C4[3_556]	2.05	0.15
2:J:43:A:C6	4:L:758:U:C3'[3_546]	2.05	0.15
2:J:44:A:O5'	4:L:760:U:C6[3_546]	2.05	0.15
2:J:45:A:N1	4:L:757:U:O5'[3_546]	2.05	0.15
2:J:167:A:N7	6:N:384:U:C5[4_456]	2.05	0.15
2:J:168:A:C3'	6:N:382:U:C2'[4_456]	2.05	0.15
2:J:170:A:OP2	3:K:151:A:N9[4_456]	2.05	0.15
2:J:242:A:C4	6:N:517:U:C4[2_666]	2.05	0.15
2:J:243:A:C5	6:N:518:U:C5[2_666]	2.05	0.15
2:J:243:A:C5	6:N:517:U:C6[2_666]	2.05	0.15
2:J:243:A:C2	6:N:518:U:C5[2_666]	2.05	0.15
3:K:12:A:C1'	5:M:313:U:C4[2_664]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:13:A:N7	5:M:312:U:O2[2_664]	2.05	0.15
3:K:145:A:N7	5:M:389:U:O4[4_556]	2.05	0.15
3:K:146:A:OP2	5:M:387:U:O5'[4_556]	2.05	0.15
3:K:148:A:N3	5:M:384:U:O4[4_556]	2.05	0.15
4:L:469:U:N1	4:L:680:U:P[3_546]	2.05	0.15
4:L:756:U:C2'	5:M:508:U:N3[3_556]	2.05	0.15
5:M:390:U:O3'	6:N:390:U:N3[4_456]	2.05	0.15
1:I:59:A:O5'	2:J:40:A:O3'[3_556]	2.06	0.14
1:I:62:A:C5'	5:M:505:U:N1[3_556]	2.06	0.14
1:I:63:A:N7	5:M:504:U:O5'[3_556]	2.06	0.14
1:I:64:A:O3'	5:M:502:U:C1'[3_556]	2.06	0.14
1:I:64:A:C4'	5:M:502:U:N1[3_556]	2.06	0.14
1:I:65:A:C1'	5:M:502:U:C3'[3_556]	2.06	0.14
1:I:71:A:C4	2:J:46:A:O2'[3_556]	2.06	0.14
1:I:143:A:N9	4:L:471:U:C4'[3_556]	2.06	0.14
1:I:143:A:O5'	4:L:472:U:C6[3_556]	2.06	0.14
1:I:146:A:N7	1:I:356:A:C8[3_556]	2.06	0.14
1:I:146:A:C3'	1:I:356:A:O5'[3_556]	2.06	0.14
1:I:356:A:C2	4:L:680:U:C5[3_546]	2.06	0.14
2:J:43:A:N9	4:L:760:U:P[3_546]	2.06	0.14
2:J:45:A:C5	4:L:757:U:C4[3_546]	2.06	0.14
2:J:167:A:C6	6:N:384:U:N3[4_456]	2.06	0.14
2:J:168:A:O5'	6:N:383:U:OP2[4_456]	2.06	0.14
2:J:169:A:O4'	6:N:381:U:C4[4_456]	2.06	0.14
2:J:239:A:N1	3:K:12:A:OP1[2_666]	2.06	0.14
2:J:239:A:N6	3:K:11:A:O2'[2_666]	2.06	0.14
3:K:12:A:C2'	5:M:313:U:N1[2_664]	2.06	0.14
3:K:12:A:N1	5:M:312:U:C6[2_664]	2.06	0.14
3:K:144:A:C5	5:M:389:U:N1[4_556]	2.06	0.14
3:K:147:A:N9	5:M:386:U:C5[4_556]	2.06	0.14
3:K:148:A:O5'	5:M:385:U:P[4_556]	2.06	0.14
4:L:469:U:C1'	4:L:680:U:OP1[3_546]	2.06	0.14
4:L:755:U:O3'	5:M:507:U:O2[3_556]	2.06	0.14
4:L:757:U:O5'	5:M:509:U:O4[3_556]	2.06	0.14
5:M:390:U:C2	6:N:388:U:C2[4_456]	2.06	0.14
5:M:391:U:N1	6:N:389:U:C6[4_456]	2.06	0.14
1:I:62:A:C4'	5:M:505:U:C1'[3_556]	2.07	0.13
1:I:63:A:N6	5:M:504:U:OP2[3_556]	2.07	0.13
1:I:63:A:O4'	5:M:504:U:C6[3_556]	2.07	0.13
1:I:69:A:N1	2:J:46:A:C5'[3_556]	2.07	0.13
1:I:146:A:N9	1:I:356:A:C5'[3_556]	2.07	0.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:149:A:OP2	4:L:465:U:OP2[3_556]	2.07	0.13
1:I:149:A:O4'	4:L:466:U:C5[3_556]	2.07	0.13
1:I:356:A:N6	4:L:679:U:O2[3_546]	2.07	0.13
2:J:42:A:C2	4:L:759:U:C4'[3_546]	2.07	0.13
2:J:43:A:C5	4:L:759:U:C5'[3_546]	2.07	0.13
2:J:43:A:C2'	4:L:760:U:O4'[3_546]	2.07	0.13
2:J:43:A:C6	4:L:758:U:O3'[3_546]	2.07	0.13
2:J:44:A:N9	4:L:758:U:N3[3_546]	2.07	0.13
2:J:44:A:C5	4:L:758:U:C6[3_546]	2.07	0.13
2:J:44:A:N1	4:L:758:U:O5'[3_546]	2.07	0.13
2:J:44:A:C1'	4:L:759:U:C6[3_546]	2.07	0.13
2:J:44:A:N1	4:L:757:U:C3'[3_546]	2.07	0.13
2:J:165:A:N1	6:N:386:U:O4[4_456]	2.07	0.13
2:J:165:A:C6	6:N:386:U:C4[4_456]	2.07	0.13
2:J:167:A:OP2	6:N:384:U:C3'[4_456]	2.07	0.13
2:J:244:A:N7	6:N:517:U:O4'[2_666]	2.07	0.13
3:K:12:A:O2'	5:M:314:U:C5[2_664]	2.07	0.13
3:K:13:A:OP2	5:M:313:U:O2[2_664]	2.07	0.13
3:K:13:A:O5'	5:M:313:U:O2[2_664]	2.07	0.13
3:K:17:A:C3'	5:M:305:U:OP1[2_664]	2.07	0.13
3:K:143:A:C8	5:M:389:U:C4'[4_556]	2.07	0.13
3:K:144:A:N7	5:M:389:U:C2[4_556]	2.07	0.13
3:K:144:A:C8	5:M:389:U:C5[4_556]	2.07	0.13
3:K:144:A:P	5:M:389:U:OP1[4_556]	2.07	0.13
3:K:144:A:C6	5:M:389:U:O4[4_556]	2.07	0.13
3:K:147:A:C5	5:M:386:U:N3[4_556]	2.07	0.13
3:K:148:A:OP2	5:M:385:U:C1'[4_556]	2.07	0.13
4:L:468:U:N3	4:L:679:U:C1'[3_546]	2.07	0.13
4:L:469:U:N3	4:L:679:U:N1[3_546]	2.07	0.13
4:L:469:U:C3'	4:L:680:U:OP2[3_546]	2.07	0.13
5:M:312:U:C5'	6:N:519:U:C2[2_666]	2.07	0.13
5:M:391:U:C4	6:N:388:U:C1'[4_456]	2.07	0.13
5:M:391:U:N1	6:N:388:U:O2'[4_456]	2.07	0.13
5:M:392:U:OP2	6:N:389:U:C3'[4_456]	2.07	0.13
1:I:62:A:C4	5:M:504:U:C5'[3_556]	2.08	0.12
1:I:65:A:C4'	5:M:501:U:C2'[3_556]	2.08	0.12
1:I:66:A:P	5:M:502:U:OP1[3_556]	2.08	0.12
1:I:143:A:C8	4:L:471:U:N1[3_556]	2.08	0.12
1:I:145:A:N3	1:I:356:A:C1'[3_556]	2.08	0.12
1:I:149:A:C3'	4:L:466:U:C5[3_556]	2.08	0.12
1:I:357:A:N6	4:L:679:U:C2[3_546]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:44:A:O4'	4:L:759:U:C2[3_546]	2.08	0.12
2:J:47:A:C4	4:L:755:U:O4'[3_546]	2.08	0.12
2:J:48:A:O4'	4:L:754:U:C1'[3_546]	2.08	0.12
2:J:164:A:O4'	6:N:387:U:P[4_456]	2.08	0.12
2:J:164:A:C2	6:N:387:U:N3[4_456]	2.08	0.12
2:J:168:A:N1	3:K:148:A:C6[4_456]	2.08	0.12
2:J:169:A:C5	3:K:150:A:N6[4_456]	2.08	0.12
2:J:171:A:N7	3:K:150:A:C3'[4_456]	2.08	0.12
3:K:12:A:N9	5:M:313:U:N3[2_664]	2.08	0.12
3:K:143:A:C4	5:M:390:U:P[4_556]	2.08	0.12
3:K:143:A:N6	5:M:389:U:O2[4_556]	2.08	0.12
3:K:145:A:P	5:M:388:U:O5'[4_556]	2.08	0.12
3:K:146:A:P	5:M:387:U:OP1[4_556]	2.08	0.12
3:K:146:A:O5'	5:M:387:U:P[4_556]	2.08	0.12
3:K:147:A:OP2	5:M:386:U:O3'[4_556]	2.08	0.12
3:K:148:A:C8	5:M:385:U:O4[4_556]	2.08	0.12
3:K:148:A:O2'	5:M:384:U:C5[4_556]	2.08	0.12
4:L:751:U:O4'	5:M:499:U:C4'[3_556]	2.08	0.12
4:L:752:U:OP2	5:M:499:U:C3'[3_556]	2.08	0.12
4:L:755:U:O3'	5:M:507:U:N3[3_556]	2.08	0.12
4:L:756:U:C3'	5:M:508:U:O2[3_556]	2.08	0.12
1:I:61:A:C5'	5:M:505:U:O3'[3_556]	2.09	0.11
1:I:63:A:C2	5:M:504:U:OP2[3_556]	2.09	0.11
1:I:63:A:N1	5:M:504:U:P[3_556]	2.09	0.11
1:I:65:A:C1'	5:M:502:U:O5'[3_556]	2.09	0.11
1:I:70:A:N3	2:J:46:A:C3'[3_556]	2.09	0.11
1:I:142:A:C1'	4:L:471:U:O3'[3_556]	2.09	0.11
1:I:143:A:N7	4:L:471:U:C5'[3_556]	2.09	0.11
1:I:146:A:C1'	1:I:356:A:C3'[3_556]	2.09	0.11
1:I:146:A:C4'	1:I:356:A:C5'[3_556]	2.09	0.11
1:I:146:A:N6	1:I:356:A:N7[3_556]	2.09	0.11
2:J:43:A:C5'	4:L:760:U:C5'[3_546]	2.09	0.11
2:J:43:A:C2'	4:L:759:U:C2[3_546]	2.09	0.11
2:J:43:A:OP1	4:L:761:U:OP2[3_546]	2.09	0.11
2:J:43:A:C3'	4:L:760:U:C4'[3_546]	2.09	0.11
2:J:47:A:O3'	4:L:754:U:O2[3_546]	2.09	0.11
2:J:49:A:OP2	4:L:753:U:C2'[3_546]	2.09	0.11
2:J:163:A:N1	6:N:387:U:C2[4_456]	2.09	0.11
2:J:164:A:O5'	6:N:386:U:C2'[4_456]	2.09	0.11
2:J:164:A:C5'	6:N:387:U:O5'[4_456]	2.09	0.11
2:J:168:A:P	6:N:383:U:C4'[4_456]	2.09	0.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:169:A:C3'	3:K:151:A:C4[4_456]	2.09	0.11
2:J:169:A:O3'	3:K:151:A:C5[4_456]	2.09	0.11
2:J:171:A:OP2	3:K:150:A:O3'[4_456]	2.09	0.11
2:J:242:A:C4'	3:K:15:A:N6[2_666]	2.09	0.11
2:J:242:A:C5	6:N:517:U:C4[2_666]	2.09	0.11
2:J:243:A:N7	6:N:517:U:O2[2_666]	2.09	0.11
3:K:13:A:C4'	5:M:313:U:C2'[2_664]	2.09	0.11
3:K:13:A:O4'	5:M:313:U:C3'[2_664]	2.09	0.11
3:K:147:A:N3	5:M:386:U:O4[4_556]	2.09	0.11
3:K:148:A:C5'	5:M:384:U:O3'[4_556]	2.09	0.11
3:K:149:A:OP2	5:M:384:U:C2'[4_556]	2.09	0.11
4:L:469:U:C2	4:L:679:U:C3'[3_546]	2.09	0.11
4:L:469:U:N1	4:L:679:U:C2'[3_546]	2.09	0.11
4:L:752:U:O5'	5:M:499:U:O5'[3_556]	2.09	0.11
5:M:312:U:C2'	6:N:519:U:O2[2_666]	2.09	0.11
5:M:390:U:N3	6:N:388:U:C4[4_456]	2.09	0.11
5:M:391:U:O2'	6:N:389:U:OP1[4_456]	2.09	0.11
5:M:391:U:OP1	6:N:390:U:C6[4_456]	2.09	0.11
1:I:59:A:C5'	2:J:41:A:P[3_556]	2.10	0.10
1:I:61:A:C2	5:M:504:U:O3'[3_556]	2.10	0.10
1:I:64:A:OP2	5:M:503:U:O4[3_556]	2.10	0.10
1:I:64:A:C3'	5:M:502:U:C6[3_556]	2.10	0.10
1:I:65:A:OP2	5:M:502:U:C4[3_556]	2.10	0.10
1:I:65:A:C1'	5:M:502:U:O3'[3_556]	2.10	0.10
1:I:68:A:C5	2:J:45:A:C5'[3_556]	2.10	0.10
1:I:143:A:N6	4:L:470:U:C2'[3_556]	2.10	0.10
2:J:43:A:N9	4:L:759:U:C1'[3_546]	2.10	0.10
2:J:45:A:C8	4:L:757:U:C2[3_546]	2.10	0.10
2:J:47:A:OP2	4:L:755:U:O4[3_546]	2.10	0.10
2:J:48:A:N3	4:L:755:U:P[3_546]	2.10	0.10
2:J:49:A:O5'	4:L:754:U:O5'[3_546]	2.10	0.10
2:J:165:A:N7	6:N:387:U:C5[4_456]	2.10	0.10
2:J:167:A:N6	6:N:385:U:C4[4_456]	2.10	0.10
2:J:169:A:O5'	6:N:382:U:C6[4_456]	2.10	0.10
2:J:170:A:N7	3:K:150:A:N3[4_456]	2.10	0.10
2:J:171:A:C6	3:K:149:A:C2'[4_456]	2.10	0.10
2:J:239:A:C6	3:K:11:A:O3'[2_666]	2.10	0.10
2:J:244:A:C6	6:N:517:U:O5'[2_666]	2.10	0.10
3:K:17:A:O3'	5:M:305:U:C5'[2_664]	2.10	0.10
3:K:143:A:N3	5:M:390:U:O5'[4_556]	2.10	0.10
3:K:143:A:C1'	5:M:390:U:OP2[4_556]	2.10	0.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:148:A:C8	5:M:385:U:C6[4_556]	2.10	0.10
4:L:752:U:C3'	5:M:499:U:P[3_556]	2.10	0.10
4:L:756:U:O2'	5:M:508:U:C2[3_556]	2.10	0.10
4:L:757:U:O2'	5:M:510:U:N1[3_556]	2.10	0.10
5:M:312:U:C5'	6:N:519:U:O2[2_666]	2.10	0.10
1:I:62:A:C2	5:M:504:U:P[3_556]	2.11	0.09
1:I:62:A:OP2	5:M:506:U:O5'[3_556]	2.11	0.09
1:I:62:A:O3'	5:M:504:U:N3[3_556]	2.11	0.09
1:I:62:A:C6	5:M:505:U:OP2[3_556]	2.11	0.09
1:I:63:A:N7	5:M:504:U:OP2[3_556]	2.11	0.09
1:I:64:A:C5	5:M:503:U:OP2[3_556]	2.11	0.09
1:I:65:A:C3'	5:M:501:U:C3'[3_556]	2.11	0.09
1:I:68:A:C2	2:J:45:A:O4'[3_556]	2.11	0.09
1:I:70:A:N1	2:J:47:A:P[3_556]	2.11	0.09
1:I:71:A:C6	2:J:47:A:C5'[3_556]	2.11	0.09
1:I:144:A:OP1	4:L:472:U:C2'[3_556]	2.11	0.09
1:I:145:A:N1	1:I:356:A:C1'[3_556]	2.11	0.09
1:I:146:A:C8	1:I:356:A:O4'[3_556]	2.11	0.09
1:I:146:A:C4'	1:I:356:A:P[3_556]	2.11	0.09
1:I:149:A:C5'	4:L:466:U:O4[3_556]	2.11	0.09
2:J:43:A:N7	4:L:760:U:P[3_546]	2.11	0.09
2:J:45:A:C2'	4:L:757:U:N3[3_546]	2.11	0.09
2:J:47:A:N9	4:L:755:U:O4'[3_546]	2.11	0.09
2:J:48:A:C1'	4:L:754:U:C2'[3_546]	2.11	0.09
2:J:48:A:C2	4:L:755:U:OP1[3_546]	2.11	0.09
2:J:48:A:O5'	4:L:754:U:C5[3_546]	2.11	0.09
2:J:168:A:C3'	6:N:382:U:C6[4_456]	2.11	0.09
2:J:169:A:C4	3:K:150:A:N1[4_456]	2.11	0.09
2:J:236:A:O3'	6:N:522:U:C1'[2_666]	2.11	0.09
2:J:242:A:C2'	3:K:15:A:C6[2_666]	2.11	0.09
3:K:12:A:C5	5:M:313:U:C4[2_664]	2.11	0.09
3:K:12:A:C6	5:M:312:U:C5[2_664]	2.11	0.09
3:K:18:A:N9	5:M:306:U:OP1[2_664]	2.11	0.09
3:K:18:A:C5'	5:M:305:U:O3'[2_664]	2.11	0.09
3:K:144:A:N1	5:M:390:U:C4[4_556]	2.11	0.09
3:K:144:A:N1	5:M:389:U:C4[4_556]	2.11	0.09
3:K:147:A:N6	5:M:386:U:C4[4_556]	2.11	0.09
4:L:757:U:O3'	5:M:509:U:N3[3_556]	2.11	0.09
5:M:312:U:C1'	6:N:519:U:O2[2_666]	2.11	0.09
1:I:61:A:O3'	5:M:505:U:C1'[3_556]	2.12	0.08
1:I:62:A:C5'	5:M:505:U:C4'[3_556]	2.12	0.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:67:A:N6	2:J:45:A:P[3_556]	2.12	0.08
1:I:69:A:C4	2:J:45:A:O2'[3_556]	2.12	0.08
1:I:69:A:N7	2:J:46:A:P[3_556]	2.12	0.08
1:I:70:A:N1	2:J:47:A:OP2[3_556]	2.12	0.08
2:J:42:A:C8	4:L:760:U:OP1[3_546]	2.12	0.08
2:J:43:A:C2	4:L:758:U:C1'[3_546]	2.12	0.08
2:J:43:A:C6	4:L:759:U:OP1[3_546]	2.12	0.08
2:J:44:A:OP2	4:L:760:U:N3[3_546]	2.12	0.08
2:J:44:A:N1	4:L:757:U:C2'[3_546]	2.12	0.08
2:J:44:A:N9	4:L:759:U:N1[3_546]	2.12	0.08
2:J:46:A:C4	4:L:756:U:C5[3_546]	2.12	0.08
2:J:164:A:O5'	6:N:386:U:O3'[4_456]	2.12	0.08
2:J:164:A:O4'	6:N:387:U:C4'[4_456]	2.12	0.08
2:J:165:A:O5'	6:N:386:U:P[4_456]	2.12	0.08
2:J:166:A:C3'	6:N:385:U:OP2[4_456]	2.12	0.08
2:J:166:A:C6	6:N:386:U:O4[4_456]	2.12	0.08
2:J:169:A:C3'	3:K:150:A:C2[4_456]	2.12	0.08
2:J:170:A:P	3:K:151:A:C8[4_456]	2.12	0.08
2:J:242:A:OP2	3:K:16:A:C6[2_666]	2.12	0.08
3:K:12:A:C2'	5:M:314:U:C5[2_664]	2.12	0.08
3:K:17:A:C5'	5:M:305:U:OP1[2_664]	2.12	0.08
3:K:143:A:N9	5:M:389:U:C4'[4_556]	2.12	0.08
4:L:469:U:C4	4:L:679:U:C3'[3_546]	2.12	0.08
4:L:756:U:P	5:M:507:U:C2[3_556]	2.12	0.08
4:L:757:U:OP1	5:M:509:U:C4[3_556]	2.12	0.08
5:M:312:U:OP1	6:N:520:U:N1[2_666]	2.12	0.08
5:M:390:U:O2'	6:N:389:U:C4[4_456]	2.12	0.08
5:M:391:U:O4'	6:N:389:U:C5[4_456]	2.12	0.08
1:I:62:A:OP2	5:M:505:U:C2'[3_556]	2.13	0.07
1:I:64:A:O2'	5:M:502:U:C4'[3_556]	2.13	0.07
1:I:64:A:O2'	5:M:502:U:N1[3_556]	2.13	0.07
1:I:64:A:N9	5:M:503:U:C5'[3_556]	2.13	0.07
1:I:70:A:C6	2:J:46:A:O5'[3_556]	2.13	0.07
1:I:143:A:O2'	4:L:472:U:C5'[3_556]	2.13	0.07
1:I:145:A:C3'	1:I:355:A:O2'[3_556]	2.13	0.07
1:I:146:A:N1	1:I:356:A:C4[3_556]	2.13	0.07
2:J:43:A:C8	4:L:760:U:O5'[3_546]	2.13	0.07
2:J:44:A:C6	4:L:758:U:C6[3_546]	2.13	0.07
2:J:44:A:OP1	4:L:760:U:N3[3_546]	2.13	0.07
2:J:44:A:C5	4:L:759:U:C5[3_546]	2.13	0.07
2:J:44:A:C4	4:L:758:U:C5[3_546]	2.13	0.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:47:A:C6	4:L:756:U:P[3_546]	2.13	0.07
2:J:47:A:O5'	4:L:755:U:C4[3_546]	2.13	0.07
2:J:164:A:C2'	6:N:387:U:P[4_456]	2.13	0.07
2:J:165:A:N6	6:N:386:U:N3[4_456]	2.13	0.07
2:J:165:A:C8	6:N:387:U:C5[4_456]	2.13	0.07
2:J:169:A:C2'	3:K:150:A:C2[4_456]	2.13	0.07
2:J:169:A:O5'	6:N:382:U:N1[4_456]	2.13	0.07
2:J:171:A:N1	3:K:149:A:O3'[4_456]	2.13	0.07
2:J:242:A:OP1	3:K:16:A:N7[2_666]	2.13	0.07
2:J:242:A:N9	3:K:15:A:N6[2_666]	2.13	0.07
3:K:13:A:C6	5:M:312:U:C2[2_664]	2.13	0.07
3:K:18:A:C4'	5:M:305:U:O3'[2_664]	2.13	0.07
3:K:145:A:N6	5:M:388:U:O4[4_556]	2.13	0.07
4:L:469:U:O2	4:L:680:U:O5'[3_546]	2.13	0.07
4:L:752:U:P	5:M:500:U:O5'[3_556]	2.13	0.07
4:L:752:U:O4'	5:M:499:U:OP2[3_556]	2.13	0.07
5:M:391:U:N3	6:N:388:U:O2'[4_456]	2.13	0.07
5:M:391:U:OP2	6:N:390:U:C4[4_456]	2.13	0.07
1:I:62:A:OP2	5:M:505:U:O3'[3_556]	2.14	0.06
1:I:64:A:N7	5:M:503:U:O5'[3_556]	2.14	0.06
1:I:143:A:C4	4:L:471:U:C4'[3_556]	2.14	0.06
1:I:143:A:C5'	4:L:472:U:C5[3_556]	2.14	0.06
1:I:146:A:N3	1:I:356:A:N7[3_556]	2.14	0.06
1:I:351:A:C3'	4:L:677:U:P[3_546]	2.14	0.06
1:I:352:A:C4'	4:L:676:U:P[3_546]	2.14	0.06
2:J:43:A:N1	4:L:759:U:C5'[3_546]	2.14	0.06
2:J:44:A:C4	4:L:759:U:C5[3_546]	2.14	0.06
2:J:46:A:N1	4:L:756:U:C5'[3_546]	2.14	0.06
2:J:48:A:OP2	4:L:754:U:C6[3_546]	2.14	0.06
2:J:49:A:OP1	4:L:753:U:O3'[3_546]	2.14	0.06
2:J:163:A:C2	6:N:387:U:C2[4_456]	2.14	0.06
2:J:164:A:O5'	6:N:387:U:C5'[4_456]	2.14	0.06
2:J:165:A:N6	6:N:386:U:O4[4_456]	2.14	0.06
2:J:166:A:OP2	6:N:385:U:O5'[4_456]	2.14	0.06
2:J:169:A:N6	3:K:149:A:N7[4_456]	2.14	0.06
2:J:242:A:N3	6:N:517:U:O4[2_666]	2.14	0.06
2:J:243:A:C4	6:N:517:U:C2'[2_666]	2.14	0.06
3:K:12:A:C3'	5:M:313:U:C2[2_664]	2.14	0.06
3:K:13:A:C5'	5:M:313:U:C2'[2_664]	2.14	0.06
3:K:143:A:N7	5:M:389:U:C1'[4_556]	2.14	0.06
3:K:144:A:N6	5:M:389:U:C4[4_556]	2.14	0.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:146:A:O3'	5:M:386:U:C3'[4_556]	2.14	0.06
3:K:146:A:C5	5:M:387:U:C4[4_556]	2.14	0.06
3:K:146:A:N6	5:M:387:U:N3[4_556]	2.14	0.06
3:K:147:A:O2'	5:M:385:U:O5'[4_556]	2.14	0.06
3:K:147:A:C4'	5:M:386:U:P[4_556]	2.14	0.06
3:K:148:A:C4'	5:M:384:U:O5'[4_556]	2.14	0.06
4:L:469:U:C4	4:L:679:U:C2[3_546]	2.14	0.06
4:L:756:U:OP2	5:M:507:U:O4[3_556]	2.14	0.06
4:L:756:U:C2'	5:M:508:U:C2[3_556]	2.14	0.06
5:M:390:U:C1'	6:N:389:U:O4[4_456]	2.14	0.06
1:I:62:A:N9	5:M:504:U:C4'[3_556]	2.15	0.05
1:I:63:A:N1	5:M:503:U:O3'[3_556]	2.15	0.05
1:I:63:A:O4'	5:M:504:U:C1'[3_556]	2.15	0.05
1:I:64:A:C2	5:M:502:U:O3'[3_556]	2.15	0.05
1:I:146:A:P	1:I:355:A:O3'[3_556]	2.15	0.05
1:I:146:A:N7	1:I:355:A:C2'[3_556]	2.15	0.05
1:I:148:A:O2'	4:L:467:U:O4[3_556]	2.15	0.05
2:J:43:A:C5'	4:L:761:U:P[3_546]	2.15	0.05
2:J:43:A:N3	4:L:758:U:O2'[3_546]	2.15	0.05
2:J:47:A:C4	4:L:755:U:C2'[3_546]	2.15	0.05
2:J:166:A:N7	6:N:386:U:O4[4_456]	2.15	0.05
2:J:168:A:C6	3:K:148:A:N1[4_456]	2.15	0.05
2:J:168:A:N7	6:N:384:U:C5[4_456]	2.15	0.05
2:J:168:A:N3	6:N:382:U:O4[4_456]	2.15	0.05
2:J:171:A:OP1	3:K:151:A:OP1[4_456]	2.15	0.05
3:K:143:A:C6	5:M:390:U:C1'[4_556]	2.15	0.05
3:K:144:A:O4'	5:M:389:U:OP2[4_556]	2.15	0.05
3:K:145:A:N6	5:M:388:U:N3[4_556]	2.15	0.05
3:K:149:A:N9	5:M:383:U:N3[4_556]	2.15	0.05
5:M:391:U:N3	6:N:388:U:N1[4_456]	2.15	0.05
1:I:61:A:O5'	5:M:505:U:O3'[3_556]	2.16	0.04
1:I:62:A:C4'	5:M:504:U:O2[3_556]	2.16	0.04
1:I:63:A:P	5:M:504:U:C4[3_556]	2.16	0.04
1:I:64:A:O4'	5:M:503:U:C6[3_556]	2.16	0.04
1:I:64:A:OP2	5:M:504:U:C4[3_556]	2.16	0.04
1:I:66:A:OP1	5:M:501:U:O5'[3_556]	2.16	0.04
1:I:143:A:C3'	4:L:472:U:C1'[3_556]	2.16	0.04
1:I:143:A:N7	4:L:471:U:C6[3_556]	2.16	0.04
1:I:149:A:O2'	4:L:466:U:C5'[3_556]	2.16	0.04
1:I:352:A:C5'	4:L:676:U:P[3_546]	2.16	0.04
1:I:356:A:C2	4:L:680:U:C6[3_546]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:44:A:N6	4:L:758:U:OP2[3_546]	2.16	0.04
2:J:45:A:C5	4:L:757:U:N1[3_546]	2.16	0.04
2:J:45:A:N1	4:L:756:U:C2'[3_546]	2.16	0.04
2:J:49:A:OP2	4:L:754:U:OP2[3_546]	2.16	0.04
2:J:164:A:C4	6:N:387:U:C2[4_456]	2.16	0.04
2:J:164:A:C6	6:N:387:U:O4[4_456]	2.16	0.04
2:J:166:A:C5'	6:N:385:U:OP2[4_456]	2.16	0.04
2:J:166:A:P	6:N:385:U:OP1[4_456]	2.16	0.04
2:J:167:A:O4'	6:N:384:U:OP2[4_456]	2.16	0.04
2:J:169:A:C3'	6:N:381:U:O2[4_456]	2.16	0.04
2:J:236:A:P	6:N:521:U:O2'[2_666]	2.16	0.04
2:J:243:A:N6	6:N:517:U:C6[2_666]	2.16	0.04
3:K:12:A:C5	5:M:313:U:O4[2_664]	2.16	0.04
3:K:12:A:O3'	5:M:313:U:O2[2_664]	2.16	0.04
3:K:147:A:N6	5:M:386:U:O4[4_556]	2.16	0.04
3:K:147:A:OP1	5:M:386:U:C5'[4_556]	2.16	0.04
4:L:756:U:C4'	5:M:508:U:N3[3_556]	2.16	0.04
4:L:757:U:O2'	5:M:510:U:C2[3_556]	2.16	0.04
5:M:392:U:C6	6:N:389:U:C5'[4_456]	2.16	0.04
1:I:64:A:C4	5:M:503:U:C5'[3_556]	2.17	0.03
1:I:70:A:N1	2:J:46:A:C1'[3_556]	2.17	0.03
1:I:143:A:N7	4:L:471:U:N1[3_556]	2.17	0.03
1:I:146:A:C8	1:I:356:A:C5'[3_556]	2.17	0.03
1:I:146:A:C1'	1:I:356:A:C4'[3_556]	2.17	0.03
1:I:150:A:O5'	4:L:466:U:P[3_556]	2.17	0.03
2:J:42:A:N3	4:L:759:U:C3'[3_546]	2.17	0.03
2:J:43:A:O2'	4:L:759:U:O2'[3_546]	2.17	0.03
2:J:44:A:N1	4:L:758:U:C5[3_546]	2.17	0.03
2:J:45:A:N9	4:L:758:U:C4[3_546]	2.17	0.03
2:J:46:A:C2	4:L:755:U:C2'[3_546]	2.17	0.03
2:J:48:A:C4	4:L:755:U:O5'[3_546]	2.17	0.03
2:J:165:A:N7	6:N:386:U:C5[4_456]	2.17	0.03
2:J:167:A:C5'	6:N:384:U:OP1[4_456]	2.17	0.03
2:J:168:A:C3'	6:N:382:U:C1'[4_456]	2.17	0.03
2:J:170:A:N1	3:K:150:A:C8[4_456]	2.17	0.03
2:J:244:A:C8	6:N:517:U:C3'[2_666]	2.17	0.03
3:K:12:A:O2'	5:M:314:U:C6[2_664]	2.17	0.03
3:K:143:A:C4'	5:M:389:U:C5'[4_556]	2.17	0.03
3:K:144:A:OP2	5:M:388:U:C3'[4_556]	2.17	0.03
3:K:149:A:C5	5:M:384:U:O4[4_556]	2.17	0.03
4:L:751:U:C1'	5:M:499:U:C4'[3_556]	2.17	0.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:752:U:O5'	5:M:499:U:O3'[3_556]	2.17	0.03
4:L:757:U:C2'	5:M:509:U:O2[3_556]	2.17	0.03
4:L:758:U:C5'	5:M:510:U:N1[3_556]	2.17	0.03
5:M:391:U:C6	6:N:388:U:C2'[4_456]	2.17	0.03
1:I:61:A:C2'	5:M:505:U:C3'[3_556]	2.18	0.02
1:I:62:A:C3'	5:M:505:U:N1[3_556]	2.18	0.02
1:I:62:A:C4	5:M:504:U:C2'[3_556]	2.18	0.02
1:I:63:A:N9	5:M:503:U:C3'[3_556]	2.18	0.02
1:I:64:A:C4	5:M:502:U:O3'[3_556]	2.18	0.02
1:I:65:A:OP1	5:M:502:U:N3[3_556]	2.18	0.02
1:I:68:A:C2	2:J:45:A:C3'[3_556]	2.18	0.02
1:I:68:A:C8	2:J:45:A:OP1[3_556]	2.18	0.02
1:I:71:A:C4	2:J:46:A:O3'[3_556]	2.18	0.02
1:I:146:A:C4'	1:I:356:A:O5'[3_556]	2.18	0.02
1:I:352:A:OP1	4:L:677:U:P[3_546]	2.18	0.02
2:J:45:A:C2	4:L:757:U:C5[3_546]	2.18	0.02
2:J:45:A:C2	4:L:757:U:N1[3_546]	2.18	0.02
2:J:45:A:N3	4:L:757:U:C2[3_546]	2.18	0.02
2:J:46:A:N1	4:L:756:U:O4'[3_546]	2.18	0.02
2:J:46:A:O4'	4:L:756:U:O2[3_546]	2.18	0.02
2:J:47:A:C2'	4:L:754:U:C2'[3_546]	2.18	0.02
2:J:48:A:O4'	4:L:754:U:C4'[3_546]	2.18	0.02
2:J:48:A:O2'	4:L:754:U:O3'[3_546]	2.18	0.02
2:J:163:A:C5	6:N:387:U:O2[4_456]	2.18	0.02
2:J:164:A:C1'	6:N:387:U:C6[4_456]	2.18	0.02
2:J:168:A:C2'	6:N:382:U:N1[4_456]	2.18	0.02
2:J:168:A:OP2	6:N:383:U:C2'[4_456]	2.18	0.02
2:J:168:A:OP1	6:N:383:U:OP1[4_456]	2.18	0.02
2:J:168:A:N7	6:N:384:U:C4[4_456]	2.18	0.02
2:J:170:A:N7	3:K:150:A:C6[4_456]	2.18	0.02
2:J:171:A:O5'	3:K:150:A:O3'[4_456]	2.18	0.02
2:J:171:A:C2'	3:K:150:A:OP1[4_456]	2.18	0.02
2:J:242:A:P	3:K:16:A:C6[2_666]	2.18	0.02
2:J:242:A:C8	6:N:517:U:O4[2_666]	2.18	0.02
3:K:145:A:OP1	5:M:388:U:OP2[4_556]	2.18	0.02
3:K:145:A:N7	5:M:388:U:C4[4_556]	2.18	0.02
3:K:147:A:C8	5:M:386:U:C6[4_556]	2.18	0.02
3:K:149:A:N9	5:M:383:U:C4[4_556]	2.18	0.02
3:K:149:A:O4'	5:M:383:U:O4[4_556]	2.18	0.02
4:L:469:U:O4	4:L:679:U:O2[3_546]	2.18	0.02
4:L:752:U:C1'	5:M:499:U:OP2[3_556]	2.18	0.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:756:U:C4'	5:M:508:U:N1[3_556]	2.18	0.02
5:M:391:U:C4	6:N:388:U:N1[4_456]	2.18	0.02
1:I:64:A:N9	5:M:503:U:P[3_556]	2.19	0.01
1:I:64:A:C4	5:M:503:U:OP1[3_556]	2.19	0.01
1:I:65:A:C3'	5:M:502:U:OP2[3_556]	2.19	0.01
1:I:149:A:O2'	4:L:466:U:N1[3_556]	2.19	0.01
2:J:42:A:O2'	4:L:760:U:C4'[3_546]	2.19	0.01
2:J:43:A:C1'	4:L:759:U:O3'[3_546]	2.19	0.01
2:J:43:A:N1	4:L:758:U:C4'[3_546]	2.19	0.01
2:J:44:A:C4	4:L:759:U:C6[3_546]	2.19	0.01
2:J:44:A:C4	4:L:758:U:C1'[3_546]	2.19	0.01
2:J:45:A:N3	4:L:757:U:C1'[3_546]	2.19	0.01
2:J:46:A:C2	4:L:756:U:N1[3_546]	2.19	0.01
2:J:47:A:C8	4:L:755:U:O2[3_546]	2.19	0.01
2:J:165:A:C5	6:N:386:U:N3[4_456]	2.19	0.01
2:J:167:A:N6	6:N:385:U:O4[4_456]	2.19	0.01
2:J:167:A:N7	6:N:384:U:C4[4_456]	2.19	0.01
2:J:168:A:N7	6:N:383:U:C5[4_456]	2.19	0.01
2:J:168:A:C2	3:K:148:A:N6[4_456]	2.19	0.01
2:J:242:A:C1'	3:K:15:A:N6[2_666]	2.19	0.01
3:K:12:A:C6	5:M:312:U:N1[2_664]	2.19	0.01
3:K:13:A:C1'	5:M:313:U:C4'[2_664]	2.19	0.01
3:K:144:A:C4	5:M:389:U:C5[4_556]	2.19	0.01
4:L:757:U:C1'	5:M:509:U:O2[3_556]	2.19	0.01
4:L:757:U:P	5:M:508:U:C2[3_556]	2.19	0.01
5:M:390:U:C3'	6:N:389:U:C4[4_456]	2.19	0.01

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein molecules in this entry.

5.3.2 Protein sidechains

There are no protein molecules in this entry.

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	I	411/412 (99%)	57 (13%)	40 (9%)
2	J	275/276 (99%)	46 (16%)	29 (10%)
3	K	264/265 (99%)	32 (12%)	19 (7%)
4	L	411/412 (99%)	55 (13%)	39 (9%)
5	M	275/276 (99%)	47 (17%)	27 (9%)
6	N	264/265 (99%)	25 (9%)	19 (7%)
All	All	1900/1906 (99%)	262 (13%)	173 (9%)

All (262) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	I	4	A
1	I	5	A
1	I	11	A
1	I	16	A
1	I	32	A
1	I	41	A
1	I	42	A
1	I	44	A
1	I	47	A
1	I	48	A
1	I	55	A
1	I	66	A
1	I	69	A
1	I	79	A
1	I	85	A
1	I	95	A
1	I	96	A
1	I	102	A
1	I	104	A
1	I	107	A
1	I	110	A
1	I	116	A
1	I	134	A
1	I	135	A
1	I	136	A
1	I	137	A
1	I	141	A
1	I	144	A
1	I	164	A
1	I	165	A
1	I	171	A
1	I	176	A

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Mol	Chain	Res	Type
1	I	184	A
1	I	187	A
1	I	199	A
1	I	206	A
1	I	207	A
1	I	221	A
1	I	233	A
1	I	241	A
1	I	246	A
1	I	251	A
1	I	267	A
1	I	268	A
1	I	270	A
1	I	272	A
1	I	281	A
1	I	283	A
1	I	284	A
1	I	324	A
1	I	341	A
1	I	343	A
1	I	352	A
1	I	359	A
1	I	376	A
1	I	377	A
1	I	382	A
2	J	5	A
2	J	6	A
2	J	7	A
2	J	26	A
2	J	30	A
2	J	35	A
2	J	44	A
2	J	48	A
2	J	62	A
2	J	70	A
2	J	71	A
2	J	74	A
2	J	84	A
2	J	86	A
2	J	87	A
2	J	90	A
2	J	93	A

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Mol	Chain	Res	Type
2	J	98	A
2	J	116	A
2	J	117	A
2	J	118	A
2	J	119	A
2	J	125	A
2	J	137	A
2	J	144	A
2	J	148	A
2	J	164	A
2	J	166	A
2	J	167	A
2	J	169	A
2	J	171	A
2	J	172	A
2	J	177	A
2	J	182	A
2	J	184	A
2	J	189	A
2	J	198	A
2	J	201	A
2	J	206	A
2	J	217	A
2	J	223	A
2	J	224	A
2	J	227	A
2	J	237	A
2	J	238	A
2	J	266	A
3	K	39	A
3	K	50	A
3	K	55	A
3	K	64	A
3	K	72	A
3	K	90	A
3	K	100	A
3	K	101	A
3	K	115	A
3	K	118	A
3	K	119	A
3	K	120	A
3	K	121	A

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Mol	Chain	Res	Type
3	K	123	A
3	K	125	A
3	K	136	A
3	K	139	A
3	K	142	A
3	K	143	A
3	K	147	A
3	K	148	A
3	K	149	A
3	K	151	A
3	K	154	A
3	K	166	A
3	K	169	A
3	K	182	A
3	K	189	A
3	K	204	A
3	K	247	A
3	K	248	A
3	K	254	A
4	L	438	U
4	L	448	U
4	L	449	U
4	L	472	U
4	L	473	U
4	L	478	U
4	L	492	U
4	L	498	U
4	L	502	U
4	L	533	U
4	L	541	U
4	L	552	U
4	L	555	U
4	L	557	U
4	L	577	U
4	L	583	U
4	L	621	U
4	L	626	U
4	L	629	U
4	L	632	U
4	L	634	U
4	L	639	U
4	L	642	U

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Mol	Chain	Res	Type
4	L	662	U
4	L	681	U
4	L	686	U
4	L	695	U
4	L	713	U
4	L	714	U
4	L	716	U
4	L	720	U
4	L	722	U
4	L	723	U
4	L	725	U
4	L	728	U
4	L	729	U
4	L	730	U
4	L	731	U
4	L	737	U
4	L	738	U
4	L	743	U
4	L	746	U
4	L	747	U
4	L	751	U
4	L	759	U
4	L	760	U
4	L	763	U
4	L	766	U
4	L	768	U
4	L	775	U
4	L	784	U
4	L	787	U
4	L	808	U
4	L	819	U
4	L	820	U
5	M	306	U
5	M	320	U
5	M	324	U
5	M	328	U
5	M	329	U
5	M	334	U
5	M	335	U
5	M	337	U
5	M	338	U
5	M	339	U

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Mol	Chain	Res	Type
5	M	348	U
5	M	351	U
5	M	353	U
5	M	355	U
5	M	361	U
5	M	362	U
5	M	364	U
5	M	369	U
5	M	379	U
5	M	387	U
5	M	388	U
5	M	407	U
5	M	410	U
5	M	417	U
5	M	424	U
5	M	436	U
5	M	445	U
5	M	459	U
5	M	466	U
5	M	469	U
5	M	470	U
5	M	475	U
5	M	480	U
5	M	481	U
5	M	490	U
5	M	494	U
5	M	497	U
5	M	499	U
5	M	503	U
5	M	519	U
5	M	524	U
5	M	531	U
5	M	532	U
5	M	535	U
5	M	546	U
5	M	548	U
5	M	549	U
6	N	279	U
6	N	296	U
6	N	350	U
6	N	358	U
6	N	365	U

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Mol	Chain	Res	Type
6	N	366	U
6	N	378	U
6	N	385	U
6	N	389	U
6	N	390	U
6	N	392	U
6	N	393	U
6	N	394	U
6	N	399	U
6	N	409	U
6	N	432	U
6	N	436	U
6	N	441	U
6	N	446	U
6	N	447	U
6	N	459	U
6	N	460	U
6	N	461	U
6	N	490	U
6	N	525	U

All (173) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	I	3	A
1	I	4	A
1	I	10	A
1	I	31	A
1	I	40	A
1	I	41	A
1	I	43	A
1	I	46	A
1	I	47	A
1	I	54	A
1	I	78	A
1	I	79	A
1	I	84	A
1	I	94	A
1	I	95	A
1	I	101	A
1	I	103	A
1	I	106	A

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Mol	Chain	Res	Type
1	I	109	A
1	I	134	A
1	I	140	A
1	I	143	A
1	I	164	A
1	I	175	A
1	I	183	A
1	I	186	A
1	I	198	A
1	I	205	A
1	I	206	A
1	I	240	A
1	I	245	A
1	I	267	A
1	I	271	A
1	I	280	A
1	I	282	A
1	I	283	A
1	I	340	A
1	I	358	A
1	I	375	A
1	I	376	A
2	J	34	A
2	J	61	A
2	J	73	A
2	J	83	A
2	J	85	A
2	J	86	A
2	J	89	A
2	J	92	A
2	J	97	A
2	J	116	A
2	J	117	A
2	J	118	A
2	J	124	A
2	J	136	A
2	J	143	A
2	J	147	A
2	J	165	A
2	J	166	A
2	J	170	A
2	J	171	A

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Mol	Chain	Res	Type
2	J	176	A
2	J	181	A
2	J	188	A
2	J	200	A
2	J	216	A
2	J	236	A
2	J	237	A
2	J	242	A
2	J	265	A
3	K	38	A
3	K	49	A
3	K	54	A
3	K	71	A
3	K	89	A
3	K	114	A
3	K	117	A
3	K	124	A
3	K	135	A
3	K	138	A
3	K	141	A
3	K	142	A
3	K	146	A
3	K	147	A
3	K	150	A
3	K	153	A
3	K	181	A
3	K	188	A
3	K	203	A
4	L	437	U
4	L	447	U
4	L	448	U
4	L	471	U
4	L	472	U
4	L	491	U
4	L	501	U
4	L	540	U
4	L	551	U
4	L	554	U
4	L	556	U
4	L	582	U
4	L	625	U
4	L	628	U

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Mol	Chain	Res	Type
4	L	631	U
4	L	633	U
4	L	641	U
4	L	661	U
4	L	680	U
4	L	685	U
4	L	715	U
4	L	719	U
4	L	722	U
4	L	727	U
4	L	728	U
4	L	730	U
4	L	736	U
4	L	737	U
4	L	742	U
4	L	745	U
4	L	746	U
4	L	750	U
4	L	762	U
4	L	767	U
4	L	774	U
4	L	783	U
4	L	786	U
4	L	818	U
4	L	819	U
5	M	327	U
5	M	328	U
5	M	338	U
5	M	354	U
5	M	360	U
5	M	361	U
5	M	386	U
5	M	387	U
5	M	409	U
5	M	416	U
5	M	423	U
5	M	435	U
5	M	444	U
5	M	468	U
5	M	469	U
5	M	474	U
5	M	479	U

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Mol	Chain	Res	Type
5	M	480	U
5	M	493	U
5	M	496	U
5	M	498	U
5	M	502	U
5	M	518	U
5	M	523	U
5	M	534	U
5	M	547	U
5	M	548	U
6	N	295	U
6	N	349	U
6	N	357	U
6	N	364	U
6	N	365	U
6	N	377	U
6	N	384	U
6	N	388	U
6	N	389	U
6	N	391	U
6	N	398	U
6	N	408	U
6	N	435	U
6	N	445	U
6	N	446	U
6	N	458	U
6	N	459	U
6	N	460	U
6	N	489	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

There are no ligands in this entry.

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
4	L	134
1	I	113
6	N	112
3	K	104
5	M	68
2	J	64

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N	517:U	O3'	518:U	P	2.23
1	N	456:U	O3'	457:U	P	2.20
1	M	313:U	O3'	314:U	P	2.19
1	K	12:A	O3'	13:A	P	2.18
1	I	149:A	O3'	150:A	P	2.17
1	K	11:A	O3'	12:A	P	2.17
1	K	75:A	O3'	76:A	P	2.17
1	L	679:U	O3'	680:U	P	2.17
1	N	524:U	O3'	525:U	P	2.15
1	J	242:A	O3'	243:A	P	2.14
1	M	312:U	O3'	313:U	P	2.14
1	N	510:U	O3'	511:U	P	2.14
1	M	311:U	O3'	312:U	P	2.12
1	M	548:U	O3'	549:U	P	2.12
1	N	519:U	O3'	520:U	P	2.11
1	K	242:A	O3'	243:A	P	2.10
1	K	252:A	O3'	253:A	P	2.10
1	L	678:U	O3'	679:U	P	2.10
1	N	279:U	O3'	280:U	P	2.10
1	K	74:A	O3'	75:A	P	2.09
1	N	516:U	O3'	517:U	P	2.09
1	I	384:A	O3'	385:A	P	2.08
1	K	259:A	O3'	260:A	P	2.08
1	N	322:U	O3'	323:U	P	2.06
1	J	3:A	O3'	4:A	P	2.05

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	179:A	O3'	180:A	P	2.05
1	K	241:A	O3'	242:A	P	2.05
1	N	299:U	O3'	300:U	P	2.05
1	N	484:U	O3'	485:U	P	2.05
1	N	520:U	O3'	521:U	P	2.05
1	I	146:A	O3'	147:A	P	2.04
1	L	440:U	O3'	441:U	P	2.04
1	L	446:U	O3'	447:U	P	2.04
1	N	455:U	O3'	456:U	P	2.04
1	I	40:A	O3'	41:A	P	2.03
1	K	33:A	O3'	34:A	P	2.03
1	K	45:A	O3'	46:A	P	2.03
1	K	184:A	O3'	185:A	P	2.03
1	L	439:U	O3'	440:U	P	2.03
1	L	451:U	O3'	452:U	P	2.03
1	M	314:U	O3'	315:U	P	2.03
1	N	289:U	O3'	290:U	P	2.03
1	N	341:U	O3'	342:U	P	2.03
1	N	518:U	O3'	519:U	P	2.03
1	J	241:A	O3'	242:A	P	2.02
1	K	251:A	O3'	252:A	P	2.02
1	N	271:U	O3'	272:U	P	2.02
1	I	145:A	O3'	146:A	P	2.01
1	J	239:A	O3'	240:A	P	2.01
1	K	63:A	O3'	64:A	P	2.01
1	K	243:A	O3'	244:A	P	2.01
1	K	260:A	O3'	261:A	P	2.01
1	M	308:U	O3'	309:U	P	2.01
1	N	325:U	O3'	326:U	P	2.01
1	K	16:A	O3'	17:A	P	2.00
1	K	23:A	O3'	24:A	P	2.00
1	K	46:A	O3'	47:A	P	2.00
1	K	54:A	O3'	55:A	P	2.00
1	K	178:A	O3'	179:A	P	2.00
1	L	536:U	O3'	537:U	P	2.00
1	L	676:U	O3'	677:U	P	2.00
1	N	457:U	O3'	458:U	P	2.00
1	N	485:U	O3'	486:U	P	2.00
1	J	270:A	O3'	271:A	P	1.98
1	J	271:A	O3'	272:A	P	1.98
1	K	13:A	O3'	14:A	P	1.98
1	K	14:A	O3'	15:A	P	1.98

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	208:A	O3'	209:A	P	1.98
1	K	244:A	O3'	245:A	P	1.98
1	L	445:U	O3'	446:U	P	1.98
1	L	447:U	O3'	448:U	P	1.98
1	L	677:U	O3'	678:U	P	1.98
1	N	288:U	O3'	289:U	P	1.98
1	I	355:A	O3'	356:A	P	1.97
1	I	385:A	O3'	386:A	P	1.97
1	J	168:A	O3'	169:A	P	1.97
1	K	10:A	O3'	11:A	P	1.97
1	K	15:A	O3'	16:A	P	1.97
1	K	19:A	O3'	20:A	P	1.97
1	M	549:U	O3'	550:U	P	1.97
1	N	387:U	O3'	388:U	P	1.97
1	I	143:A	O3'	144:A	P	1.96
1	K	20:A	O3'	21:A	P	1.96
1	K	225:A	O3'	226:A	P	1.96
1	M	307:U	O3'	308:U	P	1.96
1	M	474:U	O3'	475:U	P	1.96
1	N	303:U	O3'	304:U	P	1.96
1	N	346:U	O3'	347:U	P	1.96
1	I	150:A	O3'	151:A	P	1.95
1	I	351:A	O3'	352:A	P	1.95
1	J	115:A	O3'	116:A	P	1.95
1	K	22:A	O3'	23:A	P	1.95
1	L	442:U	O3'	443:U	P	1.95
1	L	469:U	O3'	470:U	P	1.95
1	L	675:U	O3'	676:U	P	1.95
1	L	680:U	O3'	681:U	P	1.95
1	M	282:U	O3'	283:U	P	1.95
1	N	459:U	O3'	460:U	P	1.95
1	N	497:U	O3'	498:U	P	1.95
1	N	509:U	O3'	510:U	P	1.95
1	I	344:A	O3'	345:A	P	1.94
1	J	274:A	O3'	275:A	P	1.94
1	L	441:U	O3'	442:U	P	1.94
1	N	352:U	O3'	353:U	P	1.94
1	N	515:U	O3'	516:U	P	1.94
1	N	523:U	O3'	524:U	P	1.94
1	I	95:A	O3'	96:A	P	1.93
1	I	147:A	O3'	148:A	P	1.93
1	J	273:A	O3'	274:A	P	1.93

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	209:A	O3'	210:A	P	1.93
1	K	227:A	O3'	228:A	P	1.93
1	N	318:U	O3'	319:U	P	1.93
1	N	373:U	O3'	374:U	P	1.93
1	I	2:A	O3'	3:A	P	1.92
1	I	3:A	O3'	4:A	P	1.92
1	I	99:A	O3'	100:A	P	1.92
1	I	205:A	O3'	206:A	P	1.92
1	J	4:A	O3'	5:A	P	1.92
1	J	240:A	O3'	241:A	P	1.92
1	K	226:A	O3'	227:A	P	1.92
1	K	261:A	O3'	262:A	P	1.92
1	L	430:U	O3'	431:U	P	1.92
1	L	448:U	O3'	449:U	P	1.92
1	L	452:U	O3'	453:U	P	1.92
1	L	819:U	O3'	820:U	P	1.92
1	M	340:U	O3'	341:U	P	1.92
1	N	508:U	O3'	509:U	P	1.92
1	I	289:A	O3'	290:A	P	1.91
1	J	170:A	O3'	171:A	P	1.91
1	J	196:A	O3'	197:A	P	1.91
1	K	190:A	O3'	191:A	P	1.91
1	K	218:A	O3'	219:A	P	1.91
1	K	246:A	O3'	247:A	P	1.91
1	I	148:A	O3'	149:A	P	1.90
1	I	220:A	O3'	221:A	P	1.90
1	I	288:A	O3'	289:A	P	1.90
1	I	381:A	O3'	382:A	P	1.90
1	L	786:U	O3'	787:U	P	1.90
1	M	468:U	O3'	469:U	P	1.90
1	M	493:U	O3'	494:U	P	1.90
1	N	272:U	O3'	273:U	P	1.90
1	N	278:U	O3'	279:U	P	1.90
1	N	314:U	O3'	315:U	P	1.90
1	N	351:U	O3'	352:U	P	1.90
1	N	460:U	O3'	461:U	P	1.90
1	I	379:A	O3'	380:A	P	1.89
1	I	380:A	O3'	381:A	P	1.89
1	J	243:A	O3'	244:A	P	1.89
1	J	269:A	O3'	270:A	P	1.89
1	J	272:A	O3'	273:A	P	1.89
1	K	76:A	O3'	77:A	P	1.89

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	535:U	O3'	536:U	P	1.89
1	L	663:U	O3'	664:U	P	1.89
1	L	713:U	O3'	714:U	P	1.89
1	M	280:U	O3'	281:U	P	1.89
1	M	386:U	O3'	387:U	P	1.89
1	N	270:U	O3'	271:U	P	1.89
1	N	308:U	O3'	309:U	P	1.89
1	N	487:U	O3'	488:U	P	1.89
1	I	294:A	O3'	295:A	P	1.88
1	J	275:A	O3'	276:A	P	1.88
1	K	44:A	O3'	45:A	P	1.88
1	K	196:A	O3'	197:A	P	1.88
1	M	283:U	O3'	284:U	P	1.88
1	I	103:A	O3'	104:A	P	1.87
1	I	378:A	O3'	379:A	P	1.87
1	K	155:A	O3'	156:A	P	1.87
1	L	454:U	O3'	455:U	P	1.87
1	L	624:U	O3'	625:U	P	1.87
1	L	720:U	O3'	721:U	P	1.87
1	L	822:U	O3'	823:U	P	1.87
1	M	279:U	O3'	280:U	P	1.87
1	N	266:U	O3'	267:U	P	1.87
1	N	267:U	O3'	268:U	P	1.87
1	N	269:U	O3'	270:U	P	1.87
1	N	304:U	O3'	305:U	P	1.87
1	I	98:A	O3'	99:A	P	1.86
1	I	356:A	O3'	357:A	P	1.86
1	J	116:A	O3'	117:A	P	1.86
1	K	50:A	O3'	51:A	P	1.86
1	K	205:A	O3'	206:A	P	1.86
1	K	224:A	O3'	225:A	P	1.86
1	K	232:A	O3'	233:A	P	1.86
1	K	258:A	O3'	259:A	P	1.86
1	K	264:A	O3'	265:A	P	1.86
1	L	443:U	O3'	444:U	P	1.86
1	L	657:U	O3'	658:U	P	1.86
1	L	685:U	O3'	686:U	P	1.86
1	L	725:U	O3'	726:U	P	1.86
1	L	783:U	O3'	784:U	P	1.86
1	M	278:U	O3'	279:U	P	1.86
1	M	281:U	O3'	282:U	P	1.86
1	M	310:U	O3'	311:U	P	1.86

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N	300:U	O3'	301:U	P	1.86
1	N	321:U	O3'	322:U	P	1.86
1	N	344:U	O3'	345:U	P	1.86
1	N	357:U	O3'	358:U	P	1.86
1	N	483:U	O3'	484:U	P	1.86
1	I	4:A	O3'	5:A	P	1.85
1	I	303:A	O3'	304:A	P	1.85
1	I	382:A	O3'	383:A	P	1.85
1	J	2:A	O3'	3:A	P	1.85
1	J	85:A	O3'	86:A	P	1.85
1	J	145:A	O3'	146:A	P	1.85
1	J	162:A	O3'	163:A	P	1.85
1	K	51:A	O3'	52:A	P	1.85
1	K	67:A	O3'	68:A	P	1.85
1	K	188:A	O3'	189:A	P	1.85
1	L	456:U	O3'	457:U	P	1.85
1	L	468:U	O3'	469:U	P	1.85
1	L	551:U	O3'	552:U	P	1.85
1	L	620:U	O3'	621:U	P	1.85
1	L	632:U	O3'	633:U	P	1.85
1	L	712:U	O3'	713:U	P	1.85
1	M	419:U	O3'	420:U	P	1.85
1	M	531:U	O3'	532:U	P	1.85
1	N	287:U	O3'	288:U	P	1.85
1	I	167:A	O3'	168:A	P	1.84
1	J	244:A	O3'	245:A	P	1.84
1	K	9:A	O3'	10:A	P	1.84
1	K	197:A	O3'	198:A	P	1.84
1	K	231:A	O3'	232:A	P	1.84
1	L	429:U	O3'	430:U	P	1.84
1	L	438:U	O3'	439:U	P	1.84
1	L	471:U	O3'	472:U	P	1.84
1	L	733:U	O3'	734:U	P	1.84
1	M	390:U	O3'	391:U	P	1.84
1	M	479:U	O3'	480:U	P	1.84
1	M	551:U	O3'	552:U	P	1.84
1	N	268:U	O3'	269:U	P	1.84
1	N	333:U	O3'	334:U	P	1.84
1	N	507:U	O3'	508:U	P	1.84
1	I	111:A	O3'	112:A	P	1.83
1	I	138:A	O3'	139:A	P	1.83
1	I	170:A	O3'	171:A	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	171:A	O3'	172:A	P	1.83
1	I	374:A	O3'	375:A	P	1.83
1	I	390:A	O3'	391:A	P	1.83
1	I	394:A	O3'	395:A	P	1.83
1	I	408:A	O3'	409:A	P	1.83
1	J	1:A	O3'	2:A	P	1.83
1	K	21:A	O3'	22:A	P	1.83
1	K	150:A	O3'	151:A	P	1.83
1	K	180:A	O3'	181:A	P	1.83
1	L	480:U	O3'	481:U	P	1.83
1	L	726:U	O3'	727:U	P	1.83
1	L	730:U	O3'	731:U	P	1.83
1	L	823:U	O3'	824:U	P	1.83
1	M	321:U	O3'	322:U	P	1.83
1	N	285:U	O3'	286:U	P	1.83
1	N	315:U	O3'	316:U	P	1.83
1	N	343:U	O3'	344:U	P	1.83
1	N	458:U	O3'	459:U	P	1.83
1	I	1:A	O3'	2:A	P	1.82
1	I	84:A	O3'	85:A	P	1.82
1	I	373:A	O3'	374:A	P	1.82
1	I	395:A	O3'	396:A	P	1.82
1	J	163:A	O3'	164:A	P	1.82
1	K	24:A	O3'	25:A	P	1.82
1	K	47:A	O3'	48:A	P	1.82
1	K	219:A	O3'	220:A	P	1.82
1	K	228:A	O3'	229:A	P	1.82
1	K	262:A	O3'	263:A	P	1.82
1	L	428:U	O3'	429:U	P	1.82
1	L	431:U	O3'	432:U	P	1.82
1	L	707:U	O3'	708:U	P	1.82
1	L	723:U	O3'	724:U	P	1.82
1	L	773:U	O3'	774:U	P	1.82
1	L	774:U	O3'	775:U	P	1.82
1	L	818:U	O3'	819:U	P	1.82
1	M	277:U	O3'	278:U	P	1.82
1	M	547:U	O3'	548:U	P	1.82
1	N	298:U	O3'	299:U	P	1.82
1	N	302:U	O3'	303:U	P	1.82
1	N	342:U	O3'	343:U	P	1.82
1	N	347:U	O3'	348:U	P	1.82
1	N	391:U	O3'	392:U	P	1.82

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N	414:U	O3'	415:U	P	1.82
1	N	453:U	O3'	454:U	P	1.82
1	N	454:U	O3'	455:U	P	1.82
1	N	465:U	O3'	466:U	P	1.82
1	N	479:U	O3'	480:U	P	1.82
1	N	486:U	O3'	487:U	P	1.82
1	N	528:U	O3'	529:U	P	1.82
1	I	140:A	O3'	141:A	P	1.81
1	I	200:A	O3'	201:A	P	1.81
1	I	201:A	O3'	202:A	P	1.81
1	I	345:A	O3'	346:A	P	1.81
1	I	397:A	O3'	398:A	P	1.81
1	I	409:A	O3'	410:A	P	1.81
1	J	212:A	O3'	213:A	P	1.81
1	K	32:A	O3'	33:A	P	1.81
1	K	189:A	O3'	190:A	P	1.81
1	K	212:A	O3'	213:A	P	1.81
1	K	215:A	O3'	216:A	P	1.81
1	L	433:U	O3'	434:U	P	1.81
1	L	453:U	O3'	454:U	P	1.81
1	L	455:U	O3'	456:U	P	1.81
1	L	527:U	O3'	528:U	P	1.81
1	L	628:U	O3'	629:U	P	1.81
1	L	724:U	O3'	725:U	P	1.81
1	M	413:U	O3'	414:U	P	1.81
1	M	478:U	O3'	479:U	P	1.81
1	M	550:U	O3'	551:U	P	1.81
1	N	295:U	O3'	296:U	P	1.81
1	N	313:U	O3'	314:U	P	1.81
1	N	466:U	O3'	467:U	P	1.81
1	N	521:U	O3'	522:U	P	1.81
1	I	109:A	O3'	110:A	P	1.80
1	I	204:A	O3'	205:A	P	1.80
1	I	302:A	O3'	303:A	P	1.80
1	I	349:A	O3'	350:A	P	1.80
1	I	383:A	O3'	384:A	P	1.80
1	J	236:A	O3'	237:A	P	1.80
1	K	25:A	O3'	26:A	P	1.80
1	K	53:A	O3'	54:A	P	1.80
1	K	217:A	O3'	218:A	P	1.80
1	K	233:A	O3'	234:A	P	1.80
1	K	263:A	O3'	264:A	P	1.80

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	427:U	O3'	428:U	P	1.80
1	L	444:U	O3'	445:U	P	1.80
1	L	531:U	O3'	532:U	P	1.80
1	M	329:U	O3'	330:U	P	1.80
1	N	275:U	O3'	276:U	P	1.80
1	N	286:U	O3'	287:U	P	1.80
1	N	452:U	O3'	453:U	P	1.80
1	N	499:U	O3'	500:U	P	1.80
1	N	511:U	O3'	512:U	P	1.80
1	N	529:U	O3'	530:U	P	1.80
1	I	65:A	O3'	66:A	P	1.79
1	I	66:A	O3'	67:A	P	1.79
1	I	104:A	O3'	105:A	P	1.79
1	I	166:A	O3'	167:A	P	1.79
1	I	391:A	O3'	392:A	P	1.79
1	K	6:A	O3'	7:A	P	1.79
1	K	29:A	O3'	30:A	P	1.79
1	K	146:A	O3'	147:A	P	1.79
1	K	171:A	O3'	172:A	P	1.79
1	L	462:U	O3'	463:U	P	1.79
1	L	465:U	O3'	466:U	P	1.79
1	L	472:U	O3'	473:U	P	1.79
1	L	481:U	O3'	482:U	P	1.79
1	L	523:U	O3'	524:U	P	1.79
1	L	526:U	O3'	527:U	P	1.79
1	M	356:U	O3'	357:U	P	1.79
1	M	412:U	O3'	413:U	P	1.79
1	M	469:U	O3'	470:U	P	1.79
1	N	290:U	O3'	291:U	P	1.79
1	N	307:U	O3'	308:U	P	1.79
1	N	345:U	O3'	346:U	P	1.79
1	N	353:U	O3'	354:U	P	1.79
1	N	389:U	O3'	390:U	P	1.79
1	N	445:U	O3'	446:U	P	1.79
1	N	522:U	O3'	523:U	P	1.79
1	I	293:A	O3'	294:A	P	1.78
1	I	367:A	O3'	368:A	P	1.78
1	I	398:A	O3'	399:A	P	1.78
1	J	245:A	O3'	246:A	P	1.78
1	K	49:A	O3'	50:A	P	1.78
1	K	77:A	O3'	78:A	P	1.78
1	K	177:A	O3'	178:A	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	253:A	O3'	254:A	P	1.78
1	L	547:U	O3'	548:U	P	1.78
1	L	728:U	O3'	729:U	P	1.78
1	L	788:U	O3'	789:U	P	1.78
1	M	284:U	O3'	285:U	P	1.78
1	M	385:U	O3'	386:U	P	1.78
1	N	340:U	O3'	341:U	P	1.78
1	N	381:U	O3'	382:U	P	1.78
1	N	388:U	O3'	389:U	P	1.78
1	N	498:U	O3'	499:U	P	1.78
1	N	525:U	O3'	526:U	P	1.78
1	I	100:A	O3'	101:A	P	1.77
1	I	346:A	O3'	347:A	P	1.77
1	I	347:A	O3'	348:A	P	1.77
1	I	350:A	O3'	351:A	P	1.77
1	I	399:A	O3'	400:A	P	1.77
1	J	41:A	O3'	42:A	P	1.77
1	J	86:A	O3'	87:A	P	1.77
1	J	154:A	O3'	155:A	P	1.77
1	J	169:A	O3'	170:A	P	1.77
1	J	268:A	O3'	269:A	P	1.77
1	K	18:A	O3'	19:A	P	1.77
1	K	26:A	O3'	27:A	P	1.77
1	K	143:A	O3'	144:A	P	1.77
1	K	216:A	O3'	217:A	P	1.77
1	K	223:A	O3'	224:A	P	1.77
1	K	237:A	O3'	238:A	P	1.77
1	K	254:A	O3'	255:A	P	1.77
1	L	457:U	O3'	458:U	P	1.77
1	L	479:U	O3'	480:U	P	1.77
1	L	522:U	O3'	523:U	P	1.77
1	L	537:U	O3'	538:U	P	1.77
1	L	623:U	O3'	624:U	P	1.77
1	L	706:U	O3'	707:U	P	1.77
1	L	722:U	O3'	723:U	P	1.77
1	L	732:U	O3'	733:U	P	1.77
1	M	309:U	O3'	310:U	P	1.77
1	M	336:U	O3'	337:U	P	1.77
1	M	444:U	O3'	445:U	P	1.77
1	N	280:U	O3'	281:U	P	1.77
1	N	301:U	O3'	302:U	P	1.77
1	N	326:U	O3'	327:U	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N	386:U	O3'	387:U	P	1.77
1	I	101:A	O3'	102:A	P	1.76
1	I	110:A	O3'	111:A	P	1.76
1	I	117:A	O3'	118:A	P	1.76
1	I	217:A	O3'	218:A	P	1.76
1	I	295:A	O3'	296:A	P	1.76
1	I	343:A	O3'	344:A	P	1.76
1	I	389:A	O3'	390:A	P	1.76
1	J	21:A	O3'	22:A	P	1.76
1	J	140:A	O3'	141:A	P	1.76
1	K	2:A	O3'	3:A	P	1.76
1	K	5:A	O3'	6:A	P	1.76
1	K	34:A	O3'	35:A	P	1.76
1	K	68:A	O3'	69:A	P	1.76
1	K	158:A	O3'	159:A	P	1.76
1	K	185:A	O3'	186:A	P	1.76
1	K	213:A	O3'	214:A	P	1.76
1	L	416:U	O3'	417:U	P	1.76
1	L	432:U	O3'	433:U	P	1.76
1	L	521:U	O3'	522:U	P	1.76
1	L	607:U	O3'	608:U	P	1.76
1	L	664:U	O3'	665:U	P	1.76
1	L	721:U	O3'	722:U	P	1.76
1	L	729:U	O3'	730:U	P	1.76
1	L	742:U	O3'	743:U	P	1.76
1	M	319:U	O3'	320:U	P	1.76
1	M	431:U	O3'	432:U	P	1.76
1	N	312:U	O3'	313:U	P	1.76
1	N	319:U	O3'	320:U	P	1.76
1	N	390:U	O3'	391:U	P	1.76
1	N	514:U	O3'	515:U	P	1.76
1	I	297:A	O3'	298:A	P	1.75
1	I	368:A	O3'	369:A	P	1.75
1	K	28:A	O3'	29:A	P	1.75
1	K	73:A	O3'	74:A	P	1.75
1	K	141:A	O3'	142:A	P	1.75
1	K	203:A	O3'	204:A	P	1.75
1	L	419:U	O3'	420:U	P	1.75
1	L	470:U	O3'	471:U	P	1.75
1	M	454:U	O3'	455:U	P	1.75
1	N	451:U	O3'	452:U	P	1.75
1	N	480:U	O3'	481:U	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	N	500:U	O3'	501:U	P	1.75
1	I	11:A	O3'	12:A	P	1.40
1	I	54:A	O3'	55:A	P	1.40
1	I	173:A	O3'	174:A	P	1.40
1	J	32:A	O3'	33:A	P	1.40
1	J	33:A	O3'	34:A	P	1.40
1	J	201:A	O3'	202:A	P	1.40
1	J	266:A	O3'	267:A	P	1.40
1	M	417:U	O3'	418:U	P	1.40
1	M	455:U	O3'	456:U	P	1.40
1	M	509:U	O3'	510:U	P	1.40
1	N	395:U	O3'	396:U	P	1.40
1	I	61:A	O3'	62:A	P	1.39
1	I	69:A	O3'	70:A	P	1.39
1	I	75:A	O3'	76:A	P	1.39
1	I	158:A	O3'	159:A	P	1.39
1	I	212:A	O3'	213:A	P	1.39
1	I	275:A	O3'	276:A	P	1.39
1	J	93:A	O3'	94:A	P	1.39
1	J	144:A	O3'	145:A	P	1.39
1	J	265:A	O3'	266:A	P	1.39
1	L	572:U	O3'	573:U	P	1.39
1	L	580:U	O3'	581:U	P	1.39
1	L	592:U	O3'	593:U	P	1.39
1	L	692:U	O3'	693:U	P	1.39
1	M	349:U	O3'	350:U	P	1.39
1	M	504:U	O3'	505:U	P	1.39
1	N	437:U	O3'	438:U	P	1.39
1	N	482:U	O3'	483:U	P	1.39
1	I	185:A	O3'	186:A	P	1.38
1	I	248:A	O3'	249:A	P	1.38
1	I	249:A	O3'	250:A	P	1.38
1	I	260:A	O3'	261:A	P	1.38
1	J	247:A	O3'	248:A	P	1.38
1	K	90:A	O3'	91:A	P	1.38
1	K	128:A	O3'	129:A	P	1.38
1	L	541:U	O3'	542:U	P	1.38
1	L	575:U	O3'	576:U	P	1.38
1	L	583:U	O3'	584:U	P	1.38
1	L	594:U	O3'	595:U	P	1.38
1	L	669:U	O3'	670:U	P	1.38
1	L	739:U	O3'	740:U	P	1.38

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	768:U	O3'	769:U	P	1.38
1	L	770:U	O3'	771:U	P	1.38
1	M	298:U	O3'	299:U	P	1.38
1	M	347:U	O3'	348:U	P	1.38
1	M	460:U	O3'	461:U	P	1.38
1	M	491:U	O3'	492:U	P	1.38
1	M	510:U	O3'	511:U	P	1.38
1	N	403:U	O3'	404:U	P	1.38
1	I	18:A	O3'	19:A	P	1.37
1	I	62:A	O3'	63:A	P	1.37
1	I	74:A	O3'	75:A	P	1.37
1	I	187:A	O3'	188:A	P	1.37
1	J	64:A	O3'	65:A	P	1.37
1	J	175:A	O3'	176:A	P	1.37
1	K	94:A	O3'	95:A	P	1.37
1	K	105:A	O3'	106:A	P	1.37
1	L	584:U	O3'	585:U	P	1.37
1	L	588:U	O3'	589:U	P	1.37
1	L	639:U	O3'	640:U	P	1.37
1	L	751:U	O3'	752:U	P	1.37
1	L	769:U	O3'	770:U	P	1.37
1	M	447:U	O3'	448:U	P	1.37
1	M	487:U	O3'	488:U	P	1.37
1	M	513:U	O3'	514:U	P	1.37
1	M	517:U	O3'	518:U	P	1.37
1	M	526:U	O3'	527:U	P	1.37
1	N	434:U	O3'	435:U	P	1.37
1	N	447:U	O3'	448:U	P	1.37
1	J	58:A	O3'	59:A	P	1.36
1	J	105:A	O3'	106:A	P	1.36
1	J	142:A	O3'	143:A	P	1.36
1	J	199:A	O3'	200:A	P	1.36
1	J	248:A	O3'	249:A	P	1.36
1	K	151:A	O3'	152:A	P	1.36
1	L	556:U	O3'	557:U	P	1.36
1	L	582:U	O3'	583:U	P	1.36
1	L	600:U	O3'	601:U	P	1.36
1	L	634:U	O3'	635:U	P	1.36
1	L	645:U	O3'	646:U	P	1.36
1	L	716:U	O3'	717:U	P	1.36
1	L	745:U	O3'	746:U	P	1.36
1	L	799:U	O3'	800:U	P	1.36

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M	525:U	O3'	526:U	P	1.36
1	N	409:U	O3'	410:U	P	1.36
1	I	179:A	O3'	180:A	P	1.35
1	I	203:A	O3'	204:A	P	1.35
1	I	328:A	O3'	329:A	P	1.35
1	J	98:A	O3'	99:A	P	1.35
1	J	206:A	O3'	207:A	P	1.35
1	L	555:U	O3'	556:U	P	1.35
1	L	576:U	O3'	577:U	P	1.35
1	L	602:U	O3'	603:U	P	1.35
1	L	757:U	O3'	758:U	P	1.35
1	I	53:A	O3'	54:A	P	1.34
1	I	178:A	O3'	179:A	P	1.34
1	I	227:A	O3'	228:A	P	1.34
1	I	262:A	O3'	263:A	P	1.34
1	J	39:A	O3'	40:A	P	1.34
1	J	101:A	O3'	102:A	P	1.34
1	L	557:U	O3'	558:U	P	1.34
1	L	573:U	O3'	574:U	P	1.34
1	L	597:U	O3'	598:U	P	1.34
1	L	755:U	O3'	756:U	P	1.34
1	L	813:U	O3'	814:U	P	1.34
1	M	459:U	O3'	460:U	P	1.34
1	M	462:U	O3'	463:U	P	1.34
1	N	429:U	O3'	430:U	P	1.34
1	I	25:A	O3'	26:A	P	1.33
1	I	225:A	O3'	226:A	P	1.33
1	I	272:A	O3'	273:A	P	1.33
1	L	563:U	O3'	564:U	P	1.33
1	L	565:U	O3'	566:U	P	1.33
1	I	237:A	O3'	238:A	P	1.32
1	J	27:A	O3'	28:A	P	1.32
1	J	65:A	O3'	66:A	P	1.32
1	J	71:A	O3'	72:A	P	1.32
1	J	96:A	O3'	97:A	P	1.32
1	L	740:U	O3'	741:U	P	1.32
1	I	42:A	O3'	43:A	P	1.31
1	J	26:A	O3'	27:A	P	1.31
1	J	174:A	O3'	175:A	P	1.31
1	J	198:A	O3'	199:A	P	1.31
1	L	564:U	O3'	565:U	P	1.31
1	M	346:U	O3'	347:U	P	1.31

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	223:A	O3'	224:A	P	1.30
1	L	601:U	O3'	602:U	P	1.30
1	L	756:U	O3'	757:U	P	1.30
1	L	767:U	O3'	768:U	P	1.30
1	M	503:U	O3'	504:U	P	1.30
1	I	96:A	O3'	97:A	P	1.29
1	I	235:A	O3'	236:A	P	1.29
1	L	778:U	O3'	779:U	P	1.29
1	M	287:U	O3'	288:U	P	1.29
1	M	527:U	O3'	528:U	P	1.29
1	I	239:A	O3'	240:A	P	1.28
1	L	589:U	O3'	590:U	P	1.27
1	K	104:A	O3'	105:A	P	1.26
1	M	494:U	O3'	495:U	P	1.26
1	J	203:A	O3'	204:A	P	1.25
1	K	103:A	O3'	104:A	P	1.25
1	I	226:A	O3'	227:A	P	1.24
1	N	427:U	O3'	428:U	P	1.24
1	L	598:U	O3'	599:U	P	1.23
1	M	456:U	O3'	457:U	P	1.23
1	M	524:U	O3'	525:U	P	1.23
1	N	426:U	O3'	427:U	P	1.23
1	J	28:A	O3'	29:A	P	1.22
1	I	79:A	O3'	80:A	P	1.13

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	I	412/412 (100%)	0.01	7 (1%) 69 59	50, 50, 50, 50	0
2	J	276/276 (100%)	-0.10	5 (1%) 67 58	50, 50, 50, 50	0
3	K	265/265 (100%)	-0.11	2 (0%) 82 72	50, 50, 50, 50	0
4	L	412/412 (100%)	-0.13	0 100 100	50, 50, 50, 50	0
5	M	276/276 (100%)	-0.20	1 (0%) 88 79	50, 50, 50, 50	0
6	N	265/265 (100%)	-0.13	1 (0%) 88 79	50, 50, 50, 50	0
All	All	1906/1906 (100%)	-0.10	16 (0%) 82 72	50, 50, 50, 50	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	I	275	A	3.5
2	J	240	A	2.8
2	J	48	A	2.7
2	J	44	A	2.6
1	I	66	A	2.6
2	J	41	A	2.6
3	K	67	A	2.4
1	I	274	A	2.3
1	I	112	A	2.3
1	I	279	A	2.2
1	I	201	A	2.1
6	N	489	U	2.1
1	I	255	A	2.1
3	K	80	A	2.1
2	J	51	A	2.1
5	M	386	U	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)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.