



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 07:47 PM GMT

PDB ID : 1H1K  
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](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : **FAILED**  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

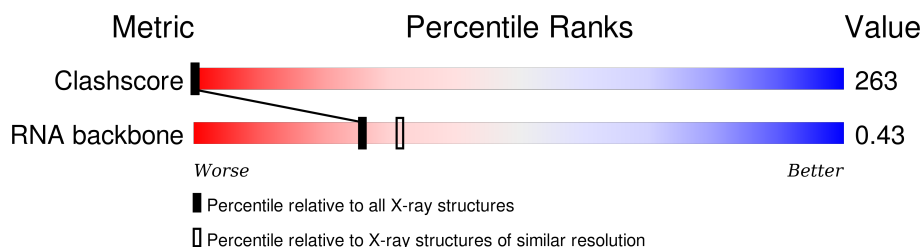
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 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	102246	1065 (15.00-3.70)
RNA backbone	2183	1106 (11.50-2.80)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Note EDS failed to run properly.

Mol	Chain	Length	Quality of chain
1	I	412	
2	J	276	
3	K	265	
4	L	412	
5	M	276	
6	N	265	

## 2 Entry composition

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
1	I	412	Total	C	N	O	P	0	0	0
			9061	4120	2060	2470	411			

- Molecule 2 is a RNA chain called RNA.

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

- Molecule 3 is a RNA chain called RNA.

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

- Molecule 4 is a RNA chain called RNA.

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

- Molecule 5 is a RNA chain called RNA.

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

- Molecule 6 is a RNA chain called RNA.

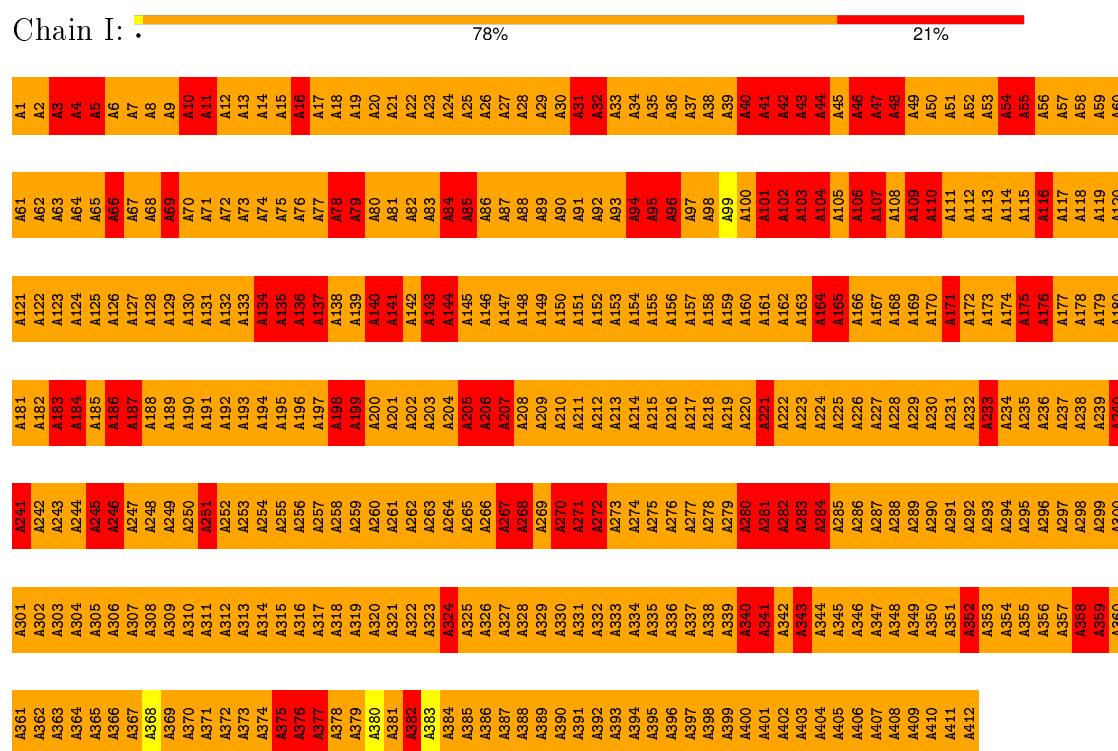
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	N	265	Total	C	N	O	P	0	0	0
			5297	2385	530	2118	264			

### 3 Residue-property plots

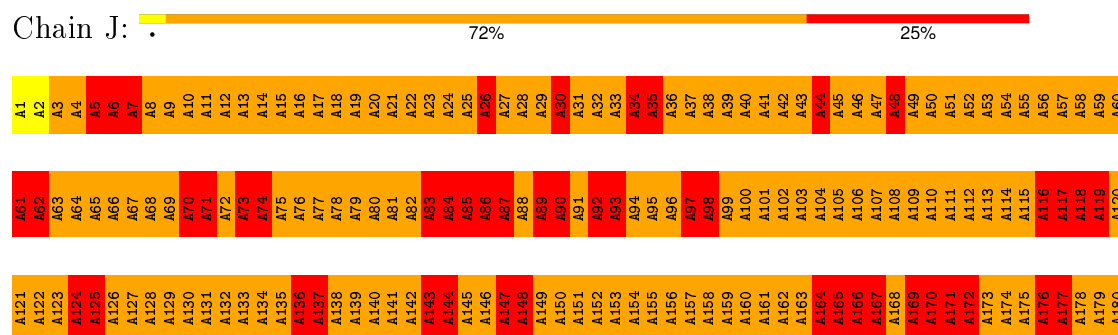
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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.

Note EDS failed to run properly.

#### • Molecule 1: RNA




#### • Molecule 2: RNA



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### • Molecule 3: RNA

Chain K: .  77% 19%

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### • Molecule 4: RNA

Chain L:  79% 21%

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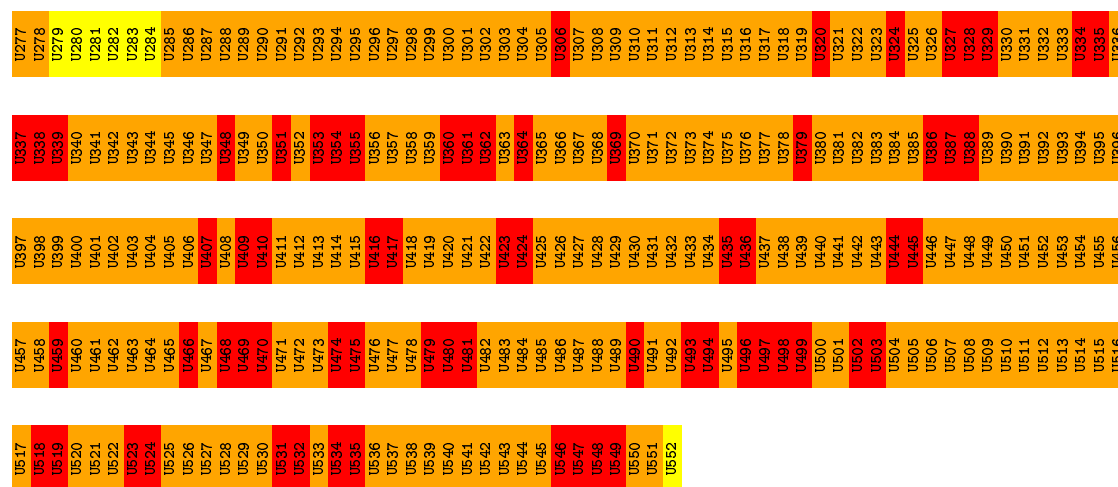
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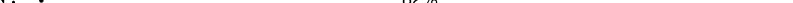
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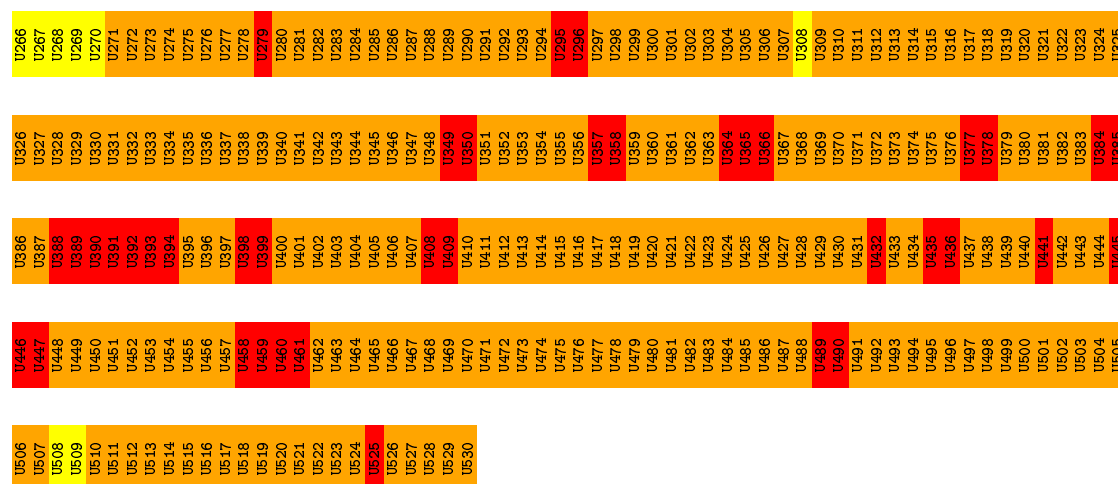
### • Molecule 5: RNA

Chain M:  73% 24%



- Molecule 6: RNA

Chain N:  2% 82% 15%



## 4 Data and refinement statistics

EDS failed to run properly - this section will therefore be incomplete.

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	795.60 Å 821.80 Å 753.30 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	(Not available) – 10.00	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-10.00)	Depositor
$R_{merge}$	0.23	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.83 (at 3.49 Å)	Xtriage
Refinement program	CNS	Depositor
R, $R_{free}$	(Not available) , (Not available)	Depositor
Wilson B-factor (Å <sup>2</sup> )	48.5	Xtriage
Anisotropy	0.015	Xtriage
Estimated twinning fraction	0.078 for k,h,-l	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.38$ , $\langle L^2 \rangle = 0.21$	Xtriage
Outliers	0 of 3524397 reflections	Xtriage
Total number of atoms	40008	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	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.*

<sup>1</sup> Intensities estimated from amplitudes.

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

## 5 Model quality

### 5.1 Standard geometry

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	3.74	703/10296 (6.8%)	3.73	1049/16060 (6.5%)
2	J	3.72	457/6896 (6.6%)	3.57	672/10756 (6.2%)
3	K	4.26	459/6621 (6.9%)	3.39	627/10327 (6.1%)
4	L	4.08	734/9060 (8.1%)	3.87	1040/14000 (7.4%)
5	M	3.97	464/6068 (7.6%)	3.99	683/9376 (7.3%)
6	N	4.42	459/5824 (7.9%)	3.40	573/8994 (6.4%)
All	All	4.01	3276/44765 (7.3%)	3.68	4644/69513 (6.7%)

All (3276) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	313	U	O3'-P	48.59	2.19	1.61
3	K	12	A	O3'-P	48.05	2.18	1.61
1	I	149	A	O3'-P	47.30	2.17	1.61
3	K	11	A	O3'-P	47.12	2.17	1.61
3	K	75	A	O3'-P	46.95	2.17	1.61
4	L	679	U	O3'-P	46.68	2.17	1.61
6	N	524	U	O3'-P	45.16	2.15	1.61
5	M	312	U	O3'-P	44.78	2.14	1.61
6	N	510	U	O3'-P	44.39	2.14	1.61
2	J	242	A	O3'-P	44.21	2.14	1.61
5	M	548	U	O3'-P	42.48	2.12	1.61
5	M	311	U	O3'-P	42.34	2.12	1.61
6	N	519	U	O3'-P	41.67	2.11	1.61
3	K	252	A	O3'-P	41.29	2.10	1.61
3	K	242	A	O3'-P	41.18	2.10	1.61
4	L	678	U	O3'-P	41.15	2.10	1.61
6	N	279	U	O3'-P	40.69	2.10	1.61
3	K	74	A	O3'-P	40.30	2.09	1.61
1	I	79	A	O3'-P	-40.09	1.13	1.61
6	N	516	U	O3'-P	39.94	2.09	1.61
1	I	384	A	O3'-P	39.78	2.08	1.61
3	K	259	A	O3'-P	39.58	2.08	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	322	U	O3'-P	38.15	2.06	1.61
6	N	520	U	O3'-P	37.22	2.05	1.61
3	K	241	A	O3'-P	37.07	2.05	1.61
6	N	299	U	O3'-P	36.98	2.05	1.61
2	J	3	A	O3'-P	36.87	2.05	1.61
3	K	179	A	O3'-P	36.74	2.05	1.61
6	N	484	U	O3'-P	36.65	2.05	1.61
6	N	455	U	O3'-P	36.19	2.04	1.61
4	L	446	U	O3'-P	36.10	2.04	1.61
1	I	146	A	O3'-P	35.97	2.04	1.61
4	L	440	U	O3'-P	35.80	2.04	1.61
3	K	184	A	O3'-P	35.51	2.03	1.61
3	K	45	A	O3'-P	35.40	2.03	1.61
6	N	341	U	O3'-P	35.34	2.03	1.61
6	N	289	U	O3'-P	35.30	2.03	1.61
1	I	40	A	O3'-P	35.27	2.03	1.61
4	L	439	U	O3'-P	35.21	2.03	1.61
6	N	518	U	O3'-P	35.21	2.03	1.61
5	M	314	U	O3'-P	35.03	2.03	1.61
3	K	33	A	O3'-P	35.00	2.03	1.61
4	L	451	U	O3'-P	34.94	2.03	1.61
3	K	251	A	O3'-P	34.34	2.02	1.61
6	N	271	U	O3'-P	34.05	2.02	1.61
2	J	241	A	O3'-P	34.02	2.02	1.61
3	K	63	A	O3'-P	33.95	2.01	1.61
3	K	243	A	O3'-P	33.93	2.01	1.61
3	K	260	A	O3'-P	33.65	2.01	1.61
1	I	145	A	O3'-P	33.63	2.01	1.61
2	J	239	A	O3'-P	33.53	2.01	1.61
5	M	308	U	O3'-P	33.51	2.01	1.61
6	N	325	U	O3'-P	33.25	2.01	1.61
6	N	485	U	O3'-P	33.02	2.00	1.61
3	K	23	A	O3'-P	33.00	2.00	1.61
6	N	457	U	O3'-P	32.95	2.00	1.61
3	K	16	A	O3'-P	32.89	2.00	1.61
3	K	178	A	O3'-P	32.79	2.00	1.61
3	K	54	A	O3'-P	32.71	2.00	1.61
3	K	46	A	O3'-P	32.49	2.00	1.61
4	L	676	U	O3'-P	32.49	2.00	1.61
4	L	536	U	O3'-P	32.48	2.00	1.61
2	J	28	A	O3'-P	-32.17	1.22	1.61
6	N	426	U	O3'-P	-31.77	1.23	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	456	U	O3'-P	-31.49	1.23	1.61
5	M	524	U	O3'-P	-31.36	1.23	1.61
3	K	244	A	O3'-P	31.32	1.98	1.61
3	K	208	A	O3'-P	31.23	1.98	1.61
2	J	271	A	O3'-P	31.23	1.98	1.61
2	J	270	A	O3'-P	31.22	1.98	1.61
3	K	13	A	O3'-P	31.14	1.98	1.61
4	L	598	U	O3'-P	-31.03	1.24	1.61
4	L	677	U	O3'-P	30.98	1.98	1.61
4	L	447	U	O3'-P	30.90	1.98	1.61
4	L	445	U	O3'-P	30.80	1.98	1.61
1	I	226	A	O3'-P	-30.76	1.24	1.61
3	K	14	A	O3'-P	30.75	1.98	1.61
6	N	288	U	O3'-P	30.67	1.98	1.61
1	I	385	A	O3'-P	30.54	1.97	1.61
1	I	355	A	O3'-P	30.50	1.97	1.61
3	K	15	A	O3'-P	30.49	1.97	1.61
3	K	10	A	O3'-P	30.43	1.97	1.61
6	N	387	U	O3'-P	30.41	1.97	1.61
5	M	549	U	O3'-P	30.36	1.97	1.61
6	N	427	U	O3'-P	-30.26	1.24	1.61
3	K	19	A	O3'-P	30.20	1.97	1.61
2	J	168	A	O3'-P	30.06	1.97	1.61
5	M	474	U	O3'-P	29.80	1.97	1.61
6	N	303	U	O3'-P	29.65	1.96	1.61
1	I	143	A	O3'-P	29.62	1.96	1.61
2	J	203	A	O3'-P	-29.57	1.25	1.61
6	N	346	U	O3'-P	29.44	1.96	1.61
5	M	307	U	O3'-P	29.39	1.96	1.61
3	K	103	A	O3'-P	-29.36	1.25	1.61
5	M	494	U	O3'-P	-29.28	1.26	1.61
3	K	104	A	O3'-P	-29.19	1.26	1.61
3	K	225	A	O3'-P	29.15	1.96	1.61
3	K	20	A	O3'-P	29.08	1.96	1.61
6	N	509	U	O3'-P	29.00	1.96	1.61
4	L	442	U	O3'-P	28.81	1.95	1.61
3	K	22	A	O3'-P	28.79	1.95	1.61
4	L	680	U	O3'-P	28.70	1.95	1.61
6	N	497	U	O3'-P	28.69	1.95	1.61
1	I	150	A	O3'-P	28.62	1.95	1.61
6	N	459	U	O3'-P	28.48	1.95	1.61
4	L	675	U	O3'-P	28.40	1.95	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	282	U	O3'-P	28.37	1.95	1.61
2	J	115	A	O3'-P	28.35	1.95	1.61
4	L	469	U	O3'-P	28.32	1.95	1.61
1	I	351	A	O3'-P	28.29	1.95	1.61
4	L	589	U	O3'-P	-28.06	1.27	1.61
6	N	523	U	O3'-P	27.93	1.94	1.61
2	J	274	A	O3'-P	27.83	1.94	1.61
4	L	441	U	O3'-P	27.78	1.94	1.61
6	N	352	U	O3'-P	27.59	1.94	1.61
1	I	344	A	O3'-P	27.57	1.94	1.61
6	N	515	U	O3'-P	27.37	1.94	1.61
1	I	147	A	O3'-P	27.29	1.93	1.61
3	K	227	A	O3'-P	27.25	1.93	1.61
3	K	209	A	O3'-P	27.14	1.93	1.61
1	I	239	A	O3'-P	-27.06	1.28	1.61
1	I	235	A	O3'-P	-26.82	1.28	1.61
6	N	318	U	O3'-P	26.69	1.93	1.61
1	I	95	A	O3'-P	26.65	1.93	1.61
5	M	527	U	O3'-P	-26.61	1.29	1.61
1	I	96	A	O3'-P	-26.61	1.29	1.61
2	J	273	A	O3'-P	26.57	1.93	1.61
6	N	373	U	O3'-P	26.52	1.93	1.61
3	K	226	A	O3'-P	26.50	1.93	1.61
4	L	778	U	O3'-P	-26.48	1.29	1.61
1	I	3	A	O3'-P	26.46	1.93	1.61
3	K	261	A	O3'-P	26.46	1.92	1.61
5	M	287	U	O3'-P	-26.46	1.29	1.61
2	J	240	A	O3'-P	26.41	1.92	1.61
4	L	430	U	O3'-P	26.38	1.92	1.61
2	J	4	A	O3'-P	26.37	1.92	1.61
4	L	448	U	O3'-P	26.34	1.92	1.61
1	I	99	A	O3'-P	26.34	1.92	1.61
1	I	2	A	O3'-P	26.25	1.92	1.61
4	L	819	U	O3'-P	26.08	1.92	1.61
1	I	223	A	O3'-P	-26.00	1.29	1.61
1	I	205	A	O3'-P	25.86	1.92	1.61
6	N	508	U	O3'-P	25.77	1.92	1.61
5	M	340	U	O3'-P	25.76	1.92	1.61
4	L	452	U	O3'-P	25.75	1.92	1.61
3	K	218	A	O3'-P	25.63	1.92	1.61
1	I	289	A	O3'-P	25.59	1.91	1.61
2	J	170	A	O3'-P	25.57	1.91	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	246	A	O3'-P	25.55	1.91	1.61
4	L	767	U	O3'-P	-25.55	1.30	1.61
4	L	756	U	O3'-P	-25.54	1.30	1.61
5	M	503	U	O3'-P	-25.52	1.30	1.61
2	J	196	A	O3'-P	25.44	1.91	1.61
3	K	190	A	O3'-P	25.41	1.91	1.61
4	L	601	U	O3'-P	-25.41	1.30	1.61
2	J	174	A	O3'-P	-25.13	1.30	1.61
4	L	564	U	O3'-P	-24.95	1.31	1.61
6	N	314	U	O3'-P	24.80	1.91	1.61
6	N	351	U	O3'-P	24.67	1.90	1.61
1	I	42	A	O3'-P	-24.61	1.31	1.61
5	M	346	U	O3'-P	-24.60	1.31	1.61
6	N	278	U	O3'-P	24.55	1.90	1.61
2	J	198	A	O3'-P	-24.51	1.31	1.61
2	J	26	A	O3'-P	-24.48	1.31	1.61
5	M	493	U	O3'-P	24.48	1.90	1.61
6	N	460	U	O3'-P	24.47	1.90	1.61
1	I	148	A	O3'-P	24.46	1.90	1.61
1	I	381	A	O3'-P	24.37	1.90	1.61
2	J	65	A	O3'-P	-24.33	1.31	1.61
1	I	220	A	O3'-P	24.30	1.90	1.61
2	J	27	A	O3'-P	-24.30	1.31	1.61
6	N	272	U	O3'-P	24.16	1.90	1.61
1	I	288	A	O3'-P	24.15	1.90	1.61
4	L	740	U	O3'-P	-24.09	1.32	1.61
5	M	468	U	O3'-P	24.05	1.90	1.61
4	L	786	U	O3'-P	24.00	1.90	1.61
2	J	269	A	O3'-P	23.99	1.90	1.61
1	I	380	A	O3'-P	23.96	1.90	1.61
2	J	96	A	O3'-P	-23.96	1.32	1.61
4	L	713	U	O3'-P	23.89	1.89	1.61
1	I	379	A	O3'-P	23.87	1.89	1.61
2	J	71	A	O3'-P	-23.87	1.32	1.61
2	J	272	A	O3'-P	23.78	1.89	1.61
1	I	237	A	O3'-P	-23.70	1.32	1.61
6	N	308	U	O3'-P	23.68	1.89	1.61
4	L	663	U	O3'-P	23.58	1.89	1.61
5	M	386	U	O3'-P	23.58	1.89	1.61
4	L	535	U	O3'-P	23.48	1.89	1.61
2	J	243	A	O3'-P	23.48	1.89	1.61
6	N	487	U	O3'-P	23.45	1.89	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	565	U	O3'-P	-23.42	1.33	1.61
1	I	225	A	O3'-P	-23.42	1.33	1.61
6	N	270	U	O3'-P	23.39	1.89	1.61
5	M	280	U	O3'-P	23.34	1.89	1.61
3	K	76	A	O3'-P	23.29	1.89	1.61
1	I	25	A	O3'-P	-23.17	1.33	1.61
3	K	44	A	O3'-P	23.17	1.89	1.61
1	I	272	A	O3'-P	-23.05	1.33	1.61
5	M	283	U	O3'-P	22.92	1.88	1.61
3	K	196	A	O3'-P	22.85	1.88	1.61
4	L	563	U	O3'-P	-22.77	1.33	1.61
2	J	275	A	O3'-P	22.74	1.88	1.61
1	I	178	A	O3'-P	-22.67	1.33	1.61
5	M	459	U	O3'-P	-22.63	1.33	1.61
1	I	294	A	O3'-P	22.61	1.88	1.61
1	I	262	A	O3'-P	-22.53	1.34	1.61
6	N	429	U	O3'-P	-22.38	1.34	1.61
4	L	755	U	O3'-P	-22.30	1.34	1.61
3	K	155	A	O3'-P	22.26	1.87	1.61
4	L	557	U	O3'-P	-22.13	1.34	1.61
2	J	39	A	O3'-P	-22.10	1.34	1.61
4	L	813	U	O3'-P	-22.10	1.34	1.61
6	N	269	U	O3'-P	22.08	1.87	1.61
4	L	597	U	O3'-P	-22.06	1.34	1.61
5	M	462	U	O3'-P	-22.04	1.34	1.61
4	L	573	U	O3'-P	-22.04	1.34	1.61
2	J	101	A	O3'-P	-22.02	1.34	1.61
1	I	53	A	O3'-P	-22.01	1.34	1.61
4	L	454	U	O3'-P	22.00	1.87	1.61
1	I	227	A	O3'-P	-21.96	1.34	1.61
4	L	822	U	O3'-P	21.95	1.87	1.61
2	J	98	A	O3'-P	-21.81	1.34	1.61
1	I	378	A	O3'-P	21.77	1.87	1.61
4	L	602	U	O3'-P	-21.73	1.35	1.61
1	I	328	A	O3'-P	-21.71	1.35	1.61
6	N	267	U	O3'-P	21.70	1.87	1.61
5	M	279	U	O3'-P	21.66	1.87	1.61
4	L	555	U	O3'-P	-21.64	1.35	1.61
4	L	624	U	O3'-P	21.64	1.87	1.61
6	N	266	U	O3'-P	21.62	1.87	1.61
6	N	304	U	O3'-P	21.60	1.87	1.61
1	I	103	A	O3'-P	21.58	1.87	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	206	A	O3'-P	-21.56	1.35	1.61
4	L	720	U	O3'-P	21.56	1.87	1.61
1	I	179	A	O3'-P	-21.53	1.35	1.61
4	L	757	U	O3'-P	-21.53	1.35	1.61
4	L	576	U	O3'-P	-21.53	1.35	1.61
4	L	443	U	O3'-P	21.47	1.86	1.61
6	N	344	U	O3'-P	21.39	1.86	1.61
3	K	232	A	O3'-P	21.37	1.86	1.61
4	L	725	U	O3'-P	21.32	1.86	1.61
4	L	783	U	O3'-P	21.32	1.86	1.61
3	K	224	A	O3'-P	21.26	1.86	1.61
5	M	281	U	O3'-P	21.26	1.86	1.61
1	I	203	A	O3'-P	-21.21	1.35	1.61
5	M	310	U	O3'-P	21.16	1.86	1.61
6	N	483	U	O3'-P	21.11	1.86	1.61
2	J	116	A	O3'-P	21.09	1.86	1.61
4	L	685	U	O3'-P	21.07	1.86	1.61
6	N	357	U	O3'-P	21.02	1.86	1.61
3	K	50	A	O3'-P	21.00	1.86	1.61
6	N	409	U	O3'-P	-20.99	1.35	1.61
6	N	321	U	O3'-P	20.95	1.86	1.61
4	L	582	U	O3'-P	-20.94	1.36	1.61
6	N	300	U	O3'-P	20.89	1.86	1.61
4	L	645	U	O3'-P	-20.88	1.36	1.61
5	M	278	U	O3'-P	20.84	1.86	1.61
3	K	205	A	O3'-P	20.84	1.86	1.61
1	I	98	A	O3'-P	20.83	1.86	1.61
3	K	258	A	O3'-P	20.83	1.86	1.61
3	K	264	A	O3'-P	20.81	1.86	1.61
4	L	657	U	O3'-P	20.78	1.86	1.61
4	L	634	U	O3'-P	-20.77	1.36	1.61
1	I	356	A	O3'-P	20.72	1.86	1.61
2	J	248	A	O3'-P	-20.69	1.36	1.61
5	M	525	U	O3'-P	-20.68	1.36	1.61
4	L	600	U	O3'-P	-20.66	1.36	1.61
2	J	58	A	O3'-P	-20.64	1.36	1.61
4	L	716	U	O3'-P	-20.62	1.36	1.61
1	I	4	A	O3'-P	20.62	1.85	1.61
4	L	712	U	O3'-P	20.61	1.85	1.61
2	J	162	A	O3'-P	20.61	1.85	1.61
4	L	799	U	O3'-P	-20.58	1.36	1.61
1	I	303	A	O3'-P	20.57	1.85	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	105	A	O3'-P	-20.57	1.36	1.61
4	L	551	U	O3'-P	20.55	1.85	1.61
4	L	556	U	O3'-P	-20.52	1.36	1.61
1	I	382	A	O3'-P	20.51	1.85	1.61
4	L	745	U	O3'-P	-20.51	1.36	1.61
3	K	151	A	O3'-P	-20.45	1.36	1.61
2	J	199	A	O3'-P	-20.43	1.36	1.61
3	K	67	A	O3'-P	20.36	1.85	1.61
3	K	51	A	O3'-P	20.34	1.85	1.61
5	M	419	U	O3'-P	20.29	1.85	1.61
2	J	142	A	O3'-P	-20.28	1.36	1.61
2	J	85	A	O3'-P	20.27	1.85	1.61
5	M	531	U	O3'-P	20.24	1.85	1.61
2	J	145	A	O3'-P	20.24	1.85	1.61
4	L	468	U	O3'-P	20.20	1.85	1.61
2	J	2	A	O3'-P	20.18	1.85	1.61
3	K	188	A	O3'-P	20.16	1.85	1.61
1	I	187	A	O3'-P	-20.14	1.36	1.61
6	N	287	U	O3'-P	20.13	1.85	1.61
2	J	175	A	O3'-P	-20.04	1.37	1.61
4	L	620	U	O3'-P	20.02	1.85	1.61
4	L	456	U	O3'-P	19.96	1.85	1.61
6	N	447	U	O3'-P	-19.95	1.37	1.61
4	L	632	U	O3'-P	19.95	1.85	1.61
5	M	390	U	O3'-P	19.78	1.84	1.61
5	M	513	U	O3'-P	-19.69	1.37	1.61
4	L	751	U	O3'-P	-19.68	1.37	1.61
5	M	487	U	O3'-P	-19.64	1.37	1.61
1	I	74	A	O3'-P	-19.64	1.37	1.61
3	K	105	A	O3'-P	-19.64	1.37	1.61
5	M	517	U	O3'-P	-19.61	1.37	1.61
1	I	18	A	O3'-P	-19.57	1.37	1.61
5	M	551	U	O3'-P	19.55	1.84	1.61
5	M	526	U	O3'-P	-19.55	1.37	1.61
4	L	639	U	O3'-P	-19.54	1.37	1.61
4	L	588	U	O3'-P	-19.53	1.37	1.61
1	I	62	A	O3'-P	-19.52	1.37	1.61
4	L	769	U	O3'-P	-19.52	1.37	1.61
6	N	434	U	O3'-P	-19.49	1.37	1.61
4	L	429	U	O3'-P	19.48	1.84	1.61
5	M	447	U	O3'-P	-19.45	1.37	1.61
2	J	64	A	O3'-P	-19.44	1.37	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	268	U	O3'-P	19.43	1.84	1.61
3	K	94	A	O3'-P	-19.43	1.37	1.61
2	J	244	A	O3'-P	19.42	1.84	1.61
4	L	584	U	O3'-P	-19.36	1.38	1.61
5	M	479	U	O3'-P	19.33	1.84	1.61
4	L	471	U	O3'-P	19.33	1.84	1.61
4	L	739	U	O3'-P	-19.31	1.38	1.61
1	I	185	A	O3'-P	-19.29	1.38	1.61
5	M	298	U	O3'-P	-19.27	1.38	1.61
3	K	128	A	O3'-P	-19.27	1.38	1.61
4	L	733	U	O3'-P	19.23	1.84	1.61
4	L	438	U	O3'-P	19.22	1.84	1.61
4	L	669	U	O3'-P	-19.21	1.38	1.61
6	N	333	U	O3'-P	19.19	1.84	1.61
3	K	9	A	O3'-P	19.11	1.84	1.61
4	L	575	U	O3'-P	-19.11	1.38	1.61
4	L	541	U	O3'-P	-19.11	1.38	1.61
5	M	510	U	O3'-P	-19.08	1.38	1.61
3	K	197	A	O3'-P	19.06	1.84	1.61
6	N	403	U	O3'-P	-19.05	1.38	1.61
5	M	460	U	O3'-P	-19.05	1.38	1.61
6	N	507	U	O3'-P	19.04	1.83	1.61
3	K	231	A	O3'-P	19.04	1.83	1.61
1	I	167	A	O3'-P	19.02	1.83	1.61
3	K	21	A	O3'-P	19.00	1.83	1.61
1	I	138	A	O3'-P	18.98	1.83	1.61
1	I	260	A	O3'-P	-18.97	1.38	1.61
2	J	247	A	O3'-P	-18.94	1.38	1.61
6	N	343	U	O3'-P	18.93	1.83	1.61
4	L	480	U	O3'-P	18.90	1.83	1.61
3	K	180	A	O3'-P	18.88	1.83	1.61
4	L	594	U	O3'-P	-18.85	1.38	1.61
6	N	315	U	O3'-P	18.82	1.83	1.61
1	I	171	A	O3'-P	18.80	1.83	1.61
4	L	730	U	O3'-P	18.73	1.83	1.61
1	I	249	A	O3'-P	-18.69	1.38	1.61
4	L	770	U	O3'-P	-18.67	1.38	1.61
5	M	347	U	O3'-P	-18.66	1.38	1.61
4	L	823	U	O3'-P	18.66	1.83	1.61
3	K	90	A	O3'-P	-18.64	1.38	1.61
1	I	394	A	O3'-P	18.62	1.83	1.61
3	K	150	A	O3'-P	18.61	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	408	A	O3'-P	18.60	1.83	1.61
4	L	768	U	O3'-P	-18.59	1.38	1.61
1	I	248	A	O3'-P	-18.55	1.38	1.61
1	I	374	A	O3'-P	18.53	1.83	1.61
4	L	583	U	O3'-P	-18.53	1.39	1.61
5	M	491	U	O3'-P	-18.52	1.39	1.61
1	I	170	A	O3'-P	18.49	1.83	1.61
6	N	285	U	O3'-P	18.45	1.83	1.61
5	M	321	U	O3'-P	18.44	1.83	1.61
4	L	726	U	O3'-P	18.39	1.83	1.61
1	I	212	A	O3'-P	-18.39	1.39	1.61
2	J	265	A	O3'-P	-18.32	1.39	1.61
1	I	111	A	O3'-P	18.31	1.83	1.61
2	J	1	A	O3'-P	18.30	1.83	1.61
1	I	61	A	O3'-P	-18.26	1.39	1.61
1	I	69	A	O3'-P	-18.25	1.39	1.61
6	N	458	U	O3'-P	18.25	1.83	1.61
1	I	390	A	O3'-P	18.25	1.83	1.61
5	M	349	U	O3'-P	-18.15	1.39	1.61
2	J	163	A	O3'-P	18.12	1.82	1.61
1	I	158	A	O3'-P	-18.11	1.39	1.61
4	L	692	U	O3'-P	-18.11	1.39	1.61
6	N	391	U	O3'-P	18.10	1.82	1.61
6	N	302	U	O3'-P	18.08	1.82	1.61
6	N	454	U	O3'-P	18.05	1.82	1.61
4	L	774	U	O3'-P	18.05	1.82	1.61
4	L	818	U	O3'-P	18.04	1.82	1.61
6	N	528	U	O3'-P	18.03	1.82	1.61
3	K	219	A	O3'-P	18.00	1.82	1.61
4	L	707	U	O3'-P	18.00	1.82	1.61
4	L	723	U	O3'-P	18.00	1.82	1.61
1	I	275	A	O3'-P	-17.99	1.39	1.61
4	L	428	U	O3'-P	17.97	1.82	1.61
4	L	592	U	O3'-P	-17.95	1.39	1.61
6	N	479	U	O3'-P	17.93	1.82	1.61
3	K	47	A	O3'-P	17.93	1.82	1.61
4	L	773	U	O3'-P	17.91	1.82	1.61
1	I	1	A	O3'-P	17.91	1.82	1.61
6	N	453	U	O3'-P	17.88	1.82	1.61
5	M	504	U	O3'-P	-17.86	1.39	1.61
1	I	395	A	O3'-P	17.85	1.82	1.61
6	N	482	U	O3'-P	-17.84	1.39	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	373	A	O3'-P	17.83	1.82	1.61
1	I	75	A	O3'-P	-17.80	1.39	1.61
4	L	580	U	O3'-P	-17.76	1.39	1.61
4	L	431	U	O3'-P	17.75	1.82	1.61
6	N	437	U	O3'-P	-17.74	1.39	1.61
6	N	342	U	O3'-P	17.73	1.82	1.61
2	J	144	A	O3'-P	-17.71	1.39	1.61
2	J	93	A	O3'-P	-17.70	1.40	1.61
4	L	572	U	O3'-P	-17.70	1.40	1.61
3	K	24	A	O3'-P	17.70	1.82	1.61
5	M	547	U	O3'-P	17.61	1.82	1.61
1	I	84	A	O3'-P	17.61	1.82	1.61
2	J	266	A	O3'-P	-17.61	1.40	1.61
2	J	32	A	O3'-P	-17.60	1.40	1.61
5	M	455	U	O3'-P	-17.58	1.40	1.61
3	K	228	A	O3'-P	17.58	1.82	1.61
6	N	298	U	O3'-P	17.56	1.82	1.61
5	M	277	U	O3'-P	17.55	1.82	1.61
1	I	54	A	O3'-P	-17.52	1.40	1.61
6	N	414	U	O3'-P	17.52	1.82	1.61
6	N	347	U	O3'-P	17.48	1.82	1.61
6	N	465	U	O3'-P	17.47	1.82	1.61
5	M	417	U	O3'-P	-17.47	1.40	1.61
6	N	486	U	O3'-P	17.44	1.82	1.61
6	N	395	U	O3'-P	-17.43	1.40	1.61
2	J	33	A	O3'-P	-17.42	1.40	1.61
3	K	262	A	O3'-P	17.41	1.82	1.61
5	M	509	U	O3'-P	-17.40	1.40	1.61
2	J	201	A	O3'-P	-17.34	1.40	1.61
1	I	173	A	O3'-P	-17.30	1.40	1.61
1	I	11	A	O3'-P	-17.27	1.40	1.61
6	N	295	U	O3'-P	17.27	1.81	1.61
6	N	521	U	O3'-P	17.27	1.81	1.61
3	K	215	A	O3'-P	17.26	1.81	1.61
6	N	441	U	O3'-P	-17.21	1.40	1.61
1	I	201	A	O3'-P	17.17	1.81	1.61
4	L	628	U	O3'-P	17.14	1.81	1.61
5	M	413	U	O3'-P	17.13	1.81	1.61
6	N	436	U	O3'-P	-17.11	1.40	1.61
2	J	158	A	O3'-P	-17.11	1.40	1.61
1	I	261	A	O3'-P	-17.11	1.40	1.61
5	M	478	U	O3'-P	17.10	1.81	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	724	U	O3'-P	17.08	1.81	1.61
3	K	32	A	O3'-P	17.07	1.81	1.61
5	M	550	U	O3'-P	17.06	1.81	1.61
4	L	749	U	O3'-P	-17.04	1.40	1.61
1	I	397	A	O3'-P	17.04	1.81	1.61
3	K	111	A	O3'-P	-17.02	1.40	1.61
4	L	460	U	O3'-P	-17.02	1.40	1.61
1	I	64	A	O3'-P	-16.99	1.40	1.61
1	I	345	A	O3'-P	16.96	1.81	1.61
6	N	313	U	O3'-P	16.90	1.81	1.61
2	J	191	A	O3'-P	-16.89	1.40	1.61
3	K	212	A	O3'-P	16.88	1.81	1.61
1	I	140	A	O3'-P	16.87	1.81	1.61
1	I	63	A	O3'-P	-16.83	1.41	1.61
1	I	200	A	O3'-P	16.81	1.81	1.61
3	K	160	A	O3'-P	-16.80	1.41	1.61
3	K	91	A	O3'-P	-16.79	1.41	1.61
2	J	212	A	O3'-P	16.78	1.81	1.61
6	N	412	U	O3'-P	-16.78	1.41	1.61
4	L	527	U	O3'-P	16.77	1.81	1.61
2	J	95	A	O3'-P	-16.74	1.41	1.61
4	L	453	U	O3'-P	16.73	1.81	1.61
1	I	409	A	O3'-P	16.73	1.81	1.61
3	K	189	A	O3'-P	16.73	1.81	1.61
6	N	466	U	O3'-P	16.72	1.81	1.61
4	L	805	U	O3'-P	-16.71	1.41	1.61
1	I	97	A	O3'-P	-16.70	1.41	1.61
2	J	107	A	O3'-P	-16.70	1.41	1.61
5	M	288	U	O3'-P	-16.69	1.41	1.61
4	L	612	U	O3'-P	-16.62	1.41	1.61
3	K	137	A	O3'-P	-16.62	1.41	1.61
4	L	433	U	O3'-P	16.61	1.81	1.61
1	I	190	A	O3'-P	-16.60	1.41	1.61
5	M	519	U	O3'-P	-16.57	1.41	1.61
4	L	455	U	O3'-P	16.57	1.81	1.61
5	M	371	U	O3'-P	-16.57	1.41	1.61
5	M	429	U	O3'-P	-16.55	1.41	1.61
6	N	424	U	O3'-P	-16.54	1.41	1.61
6	N	286	U	O3'-P	16.47	1.80	1.61
1	I	204	A	O3'-P	16.47	1.80	1.61
3	K	82	A	O3'-P	-16.43	1.41	1.61
3	K	101	A	O3'-P	-16.42	1.41	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	792	U	O3'-P	-16.39	1.41	1.61
4	L	444	U	O3'-P	16.38	1.80	1.61
3	K	53	A	O3'-P	16.37	1.80	1.61
4	L	763	U	O3'-P	-16.37	1.41	1.61
6	N	511	U	O3'-P	16.37	1.80	1.61
1	I	24	A	O3'-P	-16.33	1.41	1.61
2	J	90	A	O3'-P	-16.31	1.41	1.61
2	J	253	A	O3'-P	-16.31	1.41	1.61
2	J	100	A	O3'-P	-16.28	1.41	1.61
1	I	349	A	O3'-P	16.26	1.80	1.61
3	K	25	A	O3'-P	16.24	1.80	1.61
4	L	427	U	O3'-P	16.23	1.80	1.61
4	L	531	U	O3'-P	16.23	1.80	1.61
1	I	12	A	O3'-P	-16.22	1.41	1.61
1	I	224	A	O3'-P	-16.19	1.41	1.61
5	M	353	U	O3'-P	-16.16	1.41	1.61
4	L	771	U	O3'-P	-16.14	1.41	1.61
1	I	240	A	O3'-P	-16.14	1.41	1.61
1	I	236	A	O3'-P	-16.08	1.41	1.61
2	J	36	A	O3'-P	-16.08	1.41	1.61
1	I	47	A	O3'-P	-16.07	1.41	1.61
2	J	236	A	O3'-P	16.07	1.80	1.61
6	N	452	U	O3'-P	16.05	1.80	1.61
5	M	520	U	O3'-P	-16.02	1.42	1.61
1	I	109	A	O3'-P	16.00	1.80	1.61
1	I	383	A	O3'-P	15.97	1.80	1.61
3	K	217	A	O3'-P	15.94	1.80	1.61
6	N	499	U	O3'-P	15.92	1.80	1.61
6	N	529	U	O3'-P	15.92	1.80	1.61
3	K	233	A	O3'-P	15.91	1.80	1.61
3	K	263	A	O3'-P	15.89	1.80	1.61
2	J	106	A	O3'-P	-15.88	1.42	1.61
5	M	463	U	O3'-P	-15.84	1.42	1.61
5	M	329	U	O3'-P	15.82	1.80	1.61
4	L	800	U	O3'-P	-15.80	1.42	1.61
4	L	650	U	O3'-P	-15.80	1.42	1.61
3	K	131	A	O3'-P	-15.79	1.42	1.61
5	M	305	U	O3'-P	-15.78	1.42	1.61
1	I	251	A	O3'-P	-15.77	1.42	1.61
6	N	275	U	O3'-P	15.75	1.80	1.61
4	L	579	U	O3'-P	-15.74	1.42	1.61
6	N	472	U	O3'-P	-15.73	1.42	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	302	A	O3'-P	15.71	1.79	1.61
4	L	693	U	O3'-P	-15.68	1.42	1.61
5	M	395	U	O3'-P	-15.67	1.42	1.61
4	L	462	U	O3'-P	15.65	1.79	1.61
6	N	389	U	O3'-P	15.63	1.79	1.61
4	L	649	U	O3'-P	-15.59	1.42	1.61
5	M	412	U	O3'-P	15.58	1.79	1.61
1	I	166	A	O3'-P	15.57	1.79	1.61
1	I	104	A	O3'-P	15.50	1.79	1.61
4	L	635	U	O3'-P	-15.48	1.42	1.61
1	I	222	A	O3'-P	-15.44	1.42	1.61
3	K	171	A	O3'-P	15.43	1.79	1.61
2	J	40	A	O3'-P	-15.41	1.42	1.61
6	N	353	U	O3'-P	15.40	1.79	1.61
1	I	80	A	O3'-P	-15.40	1.42	1.61
4	L	481	U	O3'-P	15.36	1.79	1.61
4	L	585	U	O3'-P	-15.32	1.42	1.61
5	M	345	U	O3'-P	-15.31	1.42	1.61
6	N	522	U	O3'-P	15.31	1.79	1.61
6	N	307	U	O3'-P	15.29	1.79	1.61
5	M	409	U	O3'-P	-15.29	1.42	1.61
4	L	599	U	O3'-P	-15.27	1.42	1.61
5	M	461	U	O3'-P	-15.24	1.42	1.61
6	N	345	U	O3'-P	15.23	1.79	1.61
3	K	127	A	O3'-P	-15.21	1.42	1.61
3	K	146	A	O3'-P	15.20	1.79	1.61
4	L	523	U	O3'-P	15.20	1.79	1.61
3	K	6	A	O3'-P	15.20	1.79	1.61
5	M	469	U	O3'-P	15.17	1.79	1.61
1	I	157	A	O3'-P	-15.15	1.43	1.61
5	M	448	U	O3'-P	-15.13	1.43	1.61
1	I	241	A	O3'-P	-15.13	1.43	1.61
4	L	781	U	O3'-P	-15.13	1.43	1.61
5	M	446	U	O3'-P	-15.13	1.43	1.61
1	I	391	A	O3'-P	15.12	1.79	1.61
1	I	22	A	O3'-P	-15.12	1.43	1.61
1	I	65	A	O3'-P	15.11	1.79	1.61
3	K	163	A	O3'-P	-15.11	1.43	1.61
1	I	66	A	O3'-P	15.09	1.79	1.61
3	K	29	A	O3'-P	15.06	1.79	1.61
2	J	185	A	O3'-P	-15.05	1.43	1.61
1	I	318	A	O3'-P	-15.04	1.43	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	125	A	O3'-P	-15.01	1.43	1.61
6	N	290	U	O3'-P	15.01	1.79	1.61
6	N	445	U	O3'-P	14.99	1.79	1.61
4	L	472	U	O3'-P	14.99	1.79	1.61
5	M	364	U	O3'-P	-14.99	1.43	1.61
4	L	752	U	O3'-P	-14.96	1.43	1.61
1	I	52	A	O3'-P	-14.96	1.43	1.61
4	L	465	U	O3'-P	14.96	1.79	1.61
4	L	746	U	O3'-P	-14.95	1.43	1.61
5	M	410	U	O3'-P	-14.91	1.43	1.61
3	K	125	A	O3'-P	-14.91	1.43	1.61
5	M	356	U	O3'-P	14.88	1.79	1.61
6	N	419	U	O3'-P	-14.87	1.43	1.61
1	I	86	A	O3'-P	-14.87	1.43	1.61
6	N	402	U	O3'-P	-14.86	1.43	1.61
4	L	526	U	O3'-P	14.84	1.78	1.61
1	I	73	A	O3'-P	-14.82	1.43	1.61
6	N	388	U	O3'-P	14.79	1.78	1.61
4	L	728	U	O3'-P	14.77	1.78	1.61
5	M	495	U	O3'-P	-14.76	1.43	1.61
6	N	340	U	O3'-P	14.76	1.78	1.61
2	J	254	A	O3'-P	-14.74	1.43	1.61
2	J	173	A	O3'-P	-14.70	1.43	1.61
3	K	81	A	O3'-P	-14.69	1.43	1.61
5	M	452	U	O3'-P	-14.69	1.43	1.61
6	N	399	U	O3'-P	-14.66	1.43	1.61
5	M	385	U	O3'-P	14.55	1.78	1.61
2	J	245	A	O3'-P	14.53	1.78	1.61
3	K	49	A	O3'-P	14.53	1.78	1.61
4	L	648	U	O3'-P	-14.51	1.43	1.61
5	M	284	U	O3'-P	14.49	1.78	1.61
3	K	77	A	O3'-P	14.41	1.78	1.61
1	I	338	A	O3'-P	-14.39	1.43	1.61
2	J	44	A	O3'-P	-14.39	1.43	1.61
6	N	498	U	O3'-P	14.37	1.78	1.61
5	M	350	U	O3'-P	-14.36	1.44	1.61
4	L	812	U	O3'-P	-14.35	1.44	1.61
4	L	744	U	O3'-P	-14.35	1.44	1.61
5	M	472	U	O3'-P	-14.34	1.44	1.61
5	M	501	U	O3'-P	-14.33	1.44	1.61
1	I	20	A	O3'-P	-14.33	1.44	1.61
4	L	562	U	O3'-P	-14.32	1.44	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	595	U	O3'-P	-14.29	1.44	1.61
6	N	381	U	O3'-P	14.27	1.78	1.61
1	I	155	A	O3'-P	-14.27	1.44	1.61
2	J	91	A	O3'-P	-14.26	1.44	1.61
3	K	253	A	O3'-P	14.25	1.78	1.61
4	L	587	U	O3'-P	-14.24	1.44	1.61
1	I	309	A	O3'-P	-14.21	1.44	1.61
1	I	123	A	O3'-P	-14.20	1.44	1.61
1	I	269	A	O3'-P	-14.19	1.44	1.61
6	N	449	U	O3'-P	-14.19	1.44	1.61
1	I	398	A	O3'-P	14.13	1.78	1.61
3	K	177	A	O3'-P	14.13	1.78	1.61
6	N	525	U	O3'-P	14.13	1.78	1.61
4	L	718	U	O3'-P	-14.11	1.44	1.61
4	L	705	U	O3'-P	-14.11	1.44	1.61
4	L	492	U	O3'-P	-14.10	1.44	1.61
1	I	367	A	O3'-P	14.07	1.78	1.61
4	L	547	U	O3'-P	14.06	1.78	1.61
4	L	788	U	O3'-P	14.03	1.77	1.61
1	I	293	A	O3'-P	14.00	1.77	1.61
2	J	45	A	O3'-P	-14.00	1.44	1.61
3	K	93	A	O3'-P	-13.99	1.44	1.61
4	L	804	U	O3'-P	-13.99	1.44	1.61
5	M	336	U	O3'-P	13.95	1.77	1.61
1	I	229	A	O3'-P	-13.91	1.44	1.61
6	N	301	U	O3'-P	13.90	1.77	1.61
4	L	522	U	O3'-P	13.88	1.77	1.61
2	J	154	A	O3'-P	13.88	1.77	1.61
6	N	386	U	O3'-P	13.86	1.77	1.61
1	I	100	A	O3'-P	13.85	1.77	1.61
2	J	29	A	O3'-P	-13.85	1.44	1.61
1	I	259	A	O3'-P	-13.83	1.44	1.61
1	I	276	A	O3'-P	-13.83	1.44	1.61
1	I	85	A	O3'-P	-13.82	1.44	1.61
5	M	309	U	O3'-P	13.81	1.77	1.61
3	K	254	A	O3'-P	13.81	1.77	1.61
4	L	722	U	O3'-P	13.80	1.77	1.61
3	K	216	A	O3'-P	13.76	1.77	1.61
4	L	732	U	O3'-P	13.75	1.77	1.61
1	I	399	A	O3'-P	13.71	1.77	1.61
4	L	806	U	O3'-P	-13.70	1.44	1.61
6	N	280	U	O3'-P	13.67	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	26	A	O3'-P	13.66	1.77	1.61
5	M	445	U	O3'-P	-13.66	1.44	1.61
3	K	114	A	O3'-P	-13.64	1.44	1.61
4	L	655	U	O3'-P	-13.64	1.44	1.61
3	K	223	A	O3'-P	13.63	1.77	1.61
2	J	94	A	O3'-P	-13.63	1.44	1.61
4	L	457	U	O3'-P	13.63	1.77	1.61
4	L	646	U	O3'-P	-13.63	1.44	1.61
4	L	623	U	O3'-P	13.62	1.77	1.61
3	K	237	A	O3'-P	13.60	1.77	1.61
4	L	543	U	O3'-P	-13.57	1.44	1.61
3	K	130	A	O3'-P	-13.56	1.44	1.61
1	I	208	A	O3'-P	-13.56	1.44	1.61
5	M	444	U	O3'-P	13.55	1.77	1.61
2	J	169	A	O3'-P	13.51	1.77	1.61
3	K	18	A	O3'-P	13.51	1.77	1.61
6	N	326	U	O3'-P	13.51	1.77	1.61
4	L	706	U	O3'-P	13.50	1.77	1.61
1	I	346	A	O3'-P	13.47	1.77	1.61
2	J	161	A	O3'-P	-13.45	1.45	1.61
1	I	350	A	O3'-P	13.45	1.77	1.61
4	L	518	U	O3'-P	-13.45	1.45	1.61
2	J	86	A	O3'-P	13.44	1.77	1.61
4	L	665	U	O3'-P	-13.43	1.45	1.61
1	I	347	A	O3'-P	13.43	1.77	1.61
4	L	779	U	O3'-P	-13.43	1.45	1.61
1	I	114	A	O3'-P	-13.40	1.45	1.61
5	M	394	U	O3'-P	-13.39	1.45	1.61
4	L	542	U	O3'-P	-13.38	1.45	1.61
4	L	793	U	O3'-P	-13.38	1.45	1.61
2	J	264	A	O3'-P	-13.38	1.45	1.61
2	J	268	A	O3'-P	13.32	1.77	1.61
4	L	798	U	O3'-P	-13.32	1.45	1.61
4	L	524	U	O3'-P	-13.31	1.45	1.61
2	J	41	A	O3'-P	13.30	1.77	1.61
4	L	479	U	O3'-P	13.29	1.77	1.61
2	J	164	A	O3'-P	-13.28	1.45	1.61
4	L	537	U	O3'-P	13.28	1.77	1.61
3	K	143	A	O3'-P	13.27	1.77	1.61
6	N	448	U	O3'-P	-13.24	1.45	1.61
3	K	121	A	O3'-P	-13.24	1.45	1.61
1	I	244	A	O3'-P	-13.22	1.45	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	119	A	O3'-P	-13.22	1.45	1.61
3	K	107	A	O3'-P	-13.20	1.45	1.61
1	I	217	A	O3'-P	13.13	1.76	1.61
1	I	295	A	O3'-P	13.13	1.76	1.61
4	L	432	U	O3'-P	13.12	1.76	1.61
3	K	213	A	O3'-P	13.09	1.76	1.61
2	J	21	A	O3'-P	13.06	1.76	1.61
4	L	721	U	O3'-P	13.06	1.76	1.61
4	L	605	U	O3'-P	-13.05	1.45	1.61
6	N	390	U	O3'-P	13.05	1.76	1.61
1	I	107	A	O3'-P	-13.01	1.45	1.61
2	J	148	A	O3'-P	-13.01	1.45	1.61
4	L	672	U	O3'-P	-13.00	1.45	1.61
2	J	218	A	O3'-P	-12.99	1.45	1.61
4	L	607	U	O3'-P	12.99	1.76	1.61
2	J	84	A	O3'-P	-12.98	1.45	1.61
2	J	137	A	O3'-P	-12.98	1.45	1.61
1	I	117	A	O3'-P	12.97	1.76	1.61
2	J	140	A	O3'-P	12.96	1.76	1.61
3	K	34	A	O3'-P	12.93	1.76	1.61
4	L	743	U	O3'-P	-12.93	1.45	1.61
4	L	638	U	O3'-P	-12.93	1.45	1.61
1	I	350	A	C3'-O3'	-12.90	1.24	1.42
4	L	593	U	O3'-P	-12.88	1.45	1.61
4	L	664	U	O3'-P	12.87	1.76	1.61
2	J	219	A	O3'-P	-12.86	1.45	1.61
2	J	87	A	O3'-P	-12.84	1.45	1.61
1	I	405	A	C3'-O3'	-12.84	1.24	1.42
1	I	253	A	C3'-O3'	-12.83	1.24	1.42
3	K	2	A	O3'-P	12.82	1.76	1.61
5	M	325	U	C3'-O3'	-12.82	1.24	1.42
1	I	394	A	C3'-O3'	-12.82	1.24	1.42
2	J	72	A	O3'-P	-12.81	1.45	1.61
4	L	502	U	O3'-P	-12.81	1.45	1.61
1	I	361	A	C3'-O3'	-12.79	1.24	1.42
3	K	185	A	O3'-P	12.79	1.76	1.61
1	I	264	A	C3'-O3'	-12.79	1.24	1.42
5	M	436	U	O3'-P	-12.78	1.45	1.61
1	I	56	A	O3'-P	-12.78	1.45	1.61
5	M	336	U	C3'-O3'	-12.78	1.24	1.42
5	M	361	U	O3'-P	-12.77	1.45	1.61
1	I	286	A	C3'-O3'	-12.77	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	317	A	C3'-O3'	-12.77	1.24	1.42
4	L	751	U	C3'-O3'	-12.77	1.24	1.42
6	N	376	U	O3'-P	-12.77	1.45	1.61
5	M	521	U	O3'-P	-12.76	1.45	1.61
4	L	609	U	C3'-O3'	-12.76	1.24	1.42
1	I	306	A	C3'-O3'	-12.75	1.24	1.42
6	N	312	U	O3'-P	12.75	1.76	1.61
4	L	435	U	C3'-O3'	-12.75	1.24	1.42
4	L	587	U	C3'-O3'	-12.74	1.24	1.42
1	I	383	A	C3'-O3'	-12.73	1.24	1.42
1	I	372	A	C3'-O3'	-12.73	1.24	1.42
3	K	84	A	O3'-P	-12.73	1.45	1.61
4	L	588	U	C3'-O3'	-12.73	1.24	1.42
1	I	328	A	C3'-O3'	-12.72	1.24	1.42
4	L	527	U	C3'-O3'	-12.71	1.24	1.42
4	L	543	U	C3'-O3'	-12.70	1.24	1.42
4	L	490	U	C3'-O3'	-12.70	1.24	1.42
1	I	227	A	C3'-O3'	-12.70	1.24	1.42
3	K	208	A	C3'-O3'	-12.69	1.24	1.42
3	K	198	A	C3'-O3'	-12.69	1.24	1.42
4	L	693	U	C3'-O3'	-12.69	1.24	1.42
3	K	230	A	C3'-O3'	-12.69	1.24	1.42
1	I	283	A	C3'-O3'	-12.68	1.24	1.42
4	L	458	U	C3'-O3'	-12.68	1.24	1.42
4	L	590	U	O3'-P	-12.68	1.46	1.61
4	L	599	U	C3'-O3'	-12.68	1.24	1.42
4	L	714	U	C3'-O3'	-12.68	1.24	1.42
5	M	358	U	C3'-O3'	-12.68	1.24	1.42
4	L	555	U	C3'-O3'	-12.68	1.24	1.42
5	M	292	U	C3'-O3'	-12.68	1.24	1.42
4	L	554	U	C3'-O3'	-12.68	1.24	1.42
5	M	523	U	O3'-P	-12.68	1.46	1.61
1	I	303	A	C3'-O3'	-12.67	1.24	1.42
2	J	142	A	C3'-O3'	-12.67	1.24	1.42
3	K	209	A	C3'-O3'	-12.67	1.24	1.42
4	L	501	U	C3'-O3'	-12.67	1.24	1.42
4	L	576	U	C3'-O3'	-12.67	1.24	1.42
6	N	435	U	O3'-P	-12.67	1.46	1.61
1	I	339	A	C3'-O3'	-12.67	1.24	1.42
1	I	347	A	C3'-O3'	-12.67	1.24	1.42
3	K	186	A	C3'-O3'	-12.67	1.24	1.42
4	L	413	U	C3'-O3'	-12.67	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	479	U	C3'-O3'	-12.67	1.24	1.42
5	M	290	U	C3'-O3'	-12.67	1.24	1.42
3	K	252	A	C3'-O3'	-12.66	1.24	1.42
5	M	347	U	C3'-O3'	-12.66	1.24	1.42
1	I	358	A	C3'-O3'	-12.66	1.24	1.42
1	I	239	A	C3'-O3'	-12.66	1.24	1.42
4	L	468	U	C3'-O3'	-12.66	1.24	1.42
5	M	380	U	C3'-O3'	-12.66	1.24	1.42
1	I	242	A	C3'-O3'	-12.66	1.24	1.42
2	J	140	A	C3'-O3'	-12.66	1.24	1.42
5	M	369	U	C3'-O3'	-12.66	1.24	1.42
5	M	464	U	O3'-P	-12.66	1.46	1.61
1	I	84	A	C3'-O3'	-12.65	1.24	1.42
3	K	264	A	C3'-O3'	-12.65	1.24	1.42
4	L	593	U	C3'-O3'	-12.65	1.24	1.42
4	L	602	U	C3'-O3'	-12.65	1.24	1.42
5	M	414	U	C3'-O3'	-12.65	1.24	1.42
3	K	197	A	C3'-O3'	-12.65	1.24	1.42
4	L	604	U	C3'-O3'	-12.65	1.24	1.42
5	M	359	U	C3'-O3'	-12.65	1.24	1.42
3	K	68	A	O3'-P	12.65	1.76	1.61
4	L	566	U	C3'-O3'	-12.65	1.24	1.42
5	M	301	U	C3'-O3'	-12.65	1.24	1.42
2	J	151	A	C3'-O3'	-12.64	1.24	1.42
2	J	252	A	C3'-O3'	-12.64	1.24	1.42
4	L	565	U	C3'-O3'	-12.64	1.24	1.42
4	L	696	U	C3'-O3'	-12.64	1.24	1.42
5	M	403	U	C3'-O3'	-12.64	1.24	1.42
2	J	206	A	C3'-O3'	-12.64	1.24	1.42
4	L	642	U	C3'-O3'	-12.64	1.24	1.42
5	M	279	U	C3'-O3'	-12.64	1.24	1.42
5	M	392	U	C3'-O3'	-12.64	1.24	1.42
4	L	480	U	C3'-O3'	-12.63	1.24	1.42
3	K	164	A	C3'-O3'	-12.63	1.24	1.42
3	K	263	A	C3'-O3'	-12.63	1.24	1.42
5	M	314	U	C3'-O3'	-12.63	1.24	1.42
1	I	282	A	C3'-O3'	-12.63	1.24	1.42
2	J	195	A	C3'-O3'	-12.63	1.24	1.42
2	J	241	A	C3'-O3'	-12.63	1.24	1.42
1	I	238	A	C3'-O3'	-12.63	1.24	1.42
4	L	521	U	O3'-P	12.63	1.76	1.61
3	K	241	A	C3'-O3'	-12.63	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	400	U	O3'-P	-12.63	1.46	1.61
1	I	101	A	O3'-P	12.62	1.76	1.61
1	I	272	A	C3'-O3'	-12.62	1.24	1.42
2	J	263	A	C3'-O3'	-12.62	1.24	1.42
3	K	219	A	C3'-O3'	-12.62	1.24	1.42
4	L	469	U	C3'-O3'	-12.62	1.24	1.42
4	L	725	U	C3'-O3'	-12.62	1.24	1.42
4	L	769	U	C3'-O3'	-12.62	1.24	1.42
4	L	773	U	C3'-O3'	-12.62	1.24	1.42
1	I	295	A	C3'-O3'	-12.62	1.24	1.42
2	J	173	A	C3'-O3'	-12.62	1.24	1.42
2	J	219	A	C3'-O3'	-12.62	1.24	1.42
5	M	281	U	C3'-O3'	-12.62	1.24	1.42
5	M	425	U	C3'-O3'	-12.61	1.24	1.42
2	J	265	A	C3'-O3'	-12.61	1.24	1.42
3	K	242	A	C3'-O3'	-12.61	1.24	1.42
4	L	703	U	C3'-O3'	-12.61	1.24	1.42
6	N	286	U	C3'-O3'	-12.61	1.24	1.42
1	I	201	A	C3'-O3'	-12.61	1.24	1.42
3	K	88	A	C3'-O3'	-12.61	1.24	1.42
3	K	120	A	C3'-O3'	-12.61	1.24	1.42
3	K	253	A	C3'-O3'	-12.61	1.24	1.42
5	M	348	U	C3'-O3'	-12.61	1.24	1.42
2	J	118	A	C3'-O3'	-12.61	1.24	1.42
4	L	457	U	C3'-O3'	-12.61	1.24	1.42
4	L	472	U	C3'-O3'	-12.61	1.24	1.42
4	L	505	U	C3'-O3'	-12.61	1.24	1.42
4	L	577	U	C3'-O3'	-12.61	1.24	1.42
1	I	90	A	O3'-P	-12.60	1.46	1.61
1	I	104	A	C3'-O3'	-12.60	1.24	1.42
4	L	513	U	C3'-O3'	-12.60	1.24	1.42
5	M	303	U	C3'-O3'	-12.60	1.24	1.42
1	I	344	A	C3'-O3'	-12.60	1.24	1.42
1	I	401	A	C3'-O3'	-12.60	1.24	1.42
1	I	302	A	C3'-O3'	-12.60	1.24	1.42
3	K	99	A	C3'-O3'	-12.60	1.24	1.42
4	L	561	U	O3'-P	-12.60	1.46	1.61
5	M	450	U	C3'-O3'	-12.60	1.24	1.42
1	I	261	A	C3'-O3'	-12.60	1.24	1.42
2	J	131	A	C3'-O3'	-12.59	1.24	1.42
2	J	230	A	C3'-O3'	-12.59	1.24	1.42
3	K	176	A	C3'-O3'	-12.59	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	483	U	C3'-O3'	-12.59	1.24	1.42
2	J	169	A	C3'-O3'	-12.59	1.24	1.42
1	I	369	A	C3'-O3'	-12.59	1.24	1.42
2	J	184	A	C3'-O3'	-12.59	1.24	1.42
2	J	217	A	C3'-O3'	-12.59	1.24	1.42
4	L	574	U	C3'-O3'	-12.59	1.24	1.42
4	L	692	U	C3'-O3'	-12.59	1.24	1.42
5	M	381	U	C3'-O3'	-12.59	1.24	1.42
1	I	231	A	C3'-O3'	-12.59	1.24	1.42
2	J	52	A	O3'-P	-12.59	1.46	1.61
4	L	424	U	C3'-O3'	-12.59	1.24	1.42
4	L	681	U	C3'-O3'	-12.59	1.24	1.42
1	I	340	A	C3'-O3'	-12.59	1.24	1.42
3	K	175	A	C3'-O3'	-12.59	1.24	1.42
4	L	533	U	C3'-O3'	-12.59	1.24	1.42
4	L	610	U	C3'-O3'	-12.59	1.24	1.42
4	L	707	U	C3'-O3'	-12.59	1.24	1.42
4	L	740	U	C3'-O3'	-12.58	1.24	1.42
1	I	260	A	C3'-O3'	-12.58	1.24	1.42
4	L	598	U	C3'-O3'	-12.58	1.24	1.42
4	L	747	U	C3'-O3'	-12.58	1.24	1.42
5	M	384	U	C3'-O3'	-12.58	1.24	1.42
1	I	6	A	C3'-O3'	-12.58	1.24	1.42
1	I	275	A	C3'-O3'	-12.58	1.24	1.42
1	I	325	A	C3'-O3'	-12.58	1.24	1.42
2	J	276	A	C3'-O3'	-12.58	1.24	1.42
5	M	533	U	C3'-O3'	-12.58	1.24	1.42
3	K	231	A	C3'-O3'	-12.58	1.24	1.42
6	N	441	U	C3'-O3'	-12.58	1.24	1.42
1	I	60	A	C3'-O3'	-12.58	1.24	1.42
2	J	197	A	C3'-O3'	-12.58	1.24	1.42
2	J	208	A	C3'-O3'	-12.58	1.24	1.42
2	J	250	A	C3'-O3'	-12.58	1.24	1.42
5	M	436	U	C3'-O3'	-12.58	1.24	1.42
1	I	30	A	C3'-O3'	-12.57	1.24	1.42
1	I	121	A	C3'-O3'	-12.57	1.24	1.42
1	I	137	A	C3'-O3'	-12.57	1.24	1.42
1	I	343	A	O3'-P	12.57	1.76	1.61
5	M	334	U	C3'-O3'	-12.57	1.24	1.42
6	N	308	U	C3'-O3'	-12.57	1.24	1.42
1	I	81	A	C3'-O3'	-12.57	1.24	1.42
3	K	131	A	C3'-O3'	-12.57	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	523	U	C3'-O3'	-12.57	1.24	1.42
5	M	309	U	C3'-O3'	-12.57	1.24	1.42
5	M	370	U	C3'-O3'	-12.57	1.24	1.42
1	I	362	A	C3'-O3'	-12.57	1.24	1.42
2	J	239	A	C3'-O3'	-12.57	1.24	1.42
4	L	446	U	C3'-O3'	-12.57	1.24	1.42
4	L	569	U	C3'-O3'	-12.57	1.24	1.42
5	M	435	U	C3'-O3'	-12.57	1.24	1.42
1	I	216	A	C3'-O3'	-12.57	1.24	1.42
4	L	524	U	C3'-O3'	-12.57	1.24	1.42
2	J	261	A	C3'-O3'	-12.57	1.24	1.42
4	L	439	U	C3'-O3'	-12.57	1.24	1.42
4	L	516	U	C3'-O3'	-12.57	1.24	1.42
4	L	521	U	C3'-O3'	-12.57	1.24	1.42
6	N	275	U	C3'-O3'	-12.57	1.24	1.42
1	I	364	A	O3'-P	-12.56	1.46	1.61
1	I	377	A	C3'-O3'	-12.56	1.24	1.42
3	K	153	A	C3'-O3'	-12.56	1.24	1.42
4	L	425	U	C3'-O3'	-12.56	1.24	1.42
1	I	11	A	C3'-O3'	-12.56	1.24	1.42
1	I	38	A	C3'-O3'	-12.56	1.24	1.42
1	I	402	A	C3'-O3'	-12.56	1.24	1.42
4	L	729	U	C3'-O3'	-12.56	1.24	1.42
1	I	205	A	C3'-O3'	-12.56	1.24	1.42
3	K	121	A	C3'-O3'	-12.56	1.24	1.42
3	K	154	A	C3'-O3'	-12.56	1.24	1.42
4	L	544	U	C3'-O3'	-12.56	1.24	1.42
4	L	685	U	C3'-O3'	-12.56	1.24	1.42
4	L	742	U	C3'-O3'	-12.56	1.24	1.42
4	L	824	U	C3'-O3'	-12.56	1.24	1.42
5	M	315	U	C3'-O3'	-12.56	1.24	1.42
2	J	88	A	O3'-P	-12.56	1.46	1.61
5	M	480	U	C3'-O3'	-12.56	1.24	1.42
4	L	494	U	C3'-O3'	-12.56	1.24	1.42
5	M	298	U	C3'-O3'	-12.56	1.24	1.42
6	N	319	U	C3'-O3'	-12.56	1.24	1.42
1	I	228	A	C3'-O3'	-12.56	1.24	1.42
1	I	322	A	C3'-O3'	-12.55	1.24	1.42
4	L	775	U	C3'-O3'	-12.55	1.24	1.42
5	M	312	U	C3'-O3'	-12.55	1.24	1.42
6	N	297	U	C3'-O3'	-12.55	1.24	1.42
2	J	274	A	C3'-O3'	-12.55	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	428	U	C3'-O3'	-12.55	1.24	1.42
1	I	144	A	C3'-O3'	-12.55	1.24	1.42
1	I	210	A	C3'-O3'	-12.55	1.24	1.42
2	J	180	A	C3'-O3'	-12.55	1.24	1.42
4	L	653	U	C3'-O3'	-12.55	1.24	1.42
4	L	676	U	C3'-O3'	-12.55	1.24	1.42
5	M	326	U	C3'-O3'	-12.55	1.24	1.42
2	J	30	A	C3'-O3'	-12.55	1.24	1.42
1	I	366	A	C3'-O3'	-12.55	1.24	1.42
2	J	162	A	C3'-O3'	-12.55	1.24	1.42
2	J	228	A	C3'-O3'	-12.55	1.24	1.42
5	M	491	U	C3'-O3'	-12.55	1.24	1.42
6	N	430	U	C3'-O3'	-12.55	1.24	1.42
2	J	76	A	C3'-O3'	-12.55	1.24	1.42
2	J	129	A	C3'-O3'	-12.55	1.24	1.42
4	L	484	U	C3'-O3'	-12.55	1.24	1.42
1	I	250	A	C3'-O3'	-12.54	1.24	1.42
2	J	120	A	C3'-O3'	-12.54	1.24	1.42
4	L	784	U	C3'-O3'	-12.54	1.24	1.42
5	M	304	U	C3'-O3'	-12.54	1.24	1.42
5	M	413	U	C3'-O3'	-12.54	1.24	1.42
3	K	181	A	C3'-O3'	-12.54	1.24	1.42
1	I	188	A	C3'-O3'	-12.54	1.24	1.42
1	I	249	A	C3'-O3'	-12.54	1.24	1.42
1	I	391	A	C3'-O3'	-12.54	1.24	1.42
4	L	512	U	C3'-O3'	-12.54	1.24	1.42
4	L	748	U	C3'-O3'	-12.54	1.24	1.42
4	L	753	U	C3'-O3'	-12.54	1.24	1.42
4	L	820	U	C3'-O3'	-12.54	1.24	1.42
2	J	186	A	C3'-O3'	-12.54	1.24	1.42
3	K	142	A	C3'-O3'	-12.54	1.24	1.42
4	L	758	U	C3'-O3'	-12.54	1.24	1.42
1	I	220	A	C3'-O3'	-12.54	1.24	1.42
2	J	153	A	C3'-O3'	-12.54	1.24	1.42
2	J	199	A	C3'-O3'	-12.54	1.24	1.42
3	K	115	A	C3'-O3'	-12.54	1.24	1.42
3	K	148	A	C3'-O3'	-12.54	1.24	1.42
3	K	187	A	C3'-O3'	-12.54	1.24	1.42
3	K	220	A	C3'-O3'	-12.54	1.24	1.42
4	L	813	U	C3'-O3'	-12.54	1.24	1.42
1	I	58	A	C3'-O3'	-12.54	1.24	1.42
1	I	151	A	C3'-O3'	-12.54	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	259	A	C3'-O3'	-12.54	1.24	1.42
4	L	643	U	C3'-O3'	-12.54	1.24	1.42
4	L	535	U	C3'-O3'	-12.53	1.24	1.42
4	L	687	U	C3'-O3'	-12.53	1.24	1.42
4	L	762	U	C3'-O3'	-12.54	1.24	1.42
4	L	806	U	C3'-O3'	-12.53	1.24	1.42
1	I	25	A	C3'-O3'	-12.53	1.24	1.42
1	I	128	A	C3'-O3'	-12.53	1.24	1.42
4	L	532	U	C3'-O3'	-12.53	1.24	1.42
5	M	538	U	C3'-O3'	-12.53	1.24	1.42
1	I	271	A	C3'-O3'	-12.53	1.24	1.42
4	L	473	U	C3'-O3'	-12.53	1.24	1.42
4	L	632	U	C3'-O3'	-12.53	1.24	1.42
4	L	764	U	C3'-O3'	-12.53	1.24	1.42
4	L	818	U	C3'-O3'	-12.53	1.24	1.42
6	N	281	U	C3'-O3'	-12.53	1.24	1.42
1	I	55	A	C3'-O3'	-12.53	1.24	1.42
1	I	407	A	C3'-O3'	-12.53	1.24	1.42
4	L	586	U	C3'-O3'	-12.53	1.24	1.42
4	L	702	U	C3'-O3'	-12.53	1.24	1.42
5	M	323	U	C3'-O3'	-12.53	1.24	1.42
5	M	505	U	C3'-O3'	-12.53	1.24	1.42
6	N	398	U	C3'-O3'	-12.53	1.24	1.42
4	L	416	U	C3'-O3'	-12.53	1.24	1.42
4	L	731	U	C3'-O3'	-12.53	1.24	1.42
4	L	759	U	C3'-O3'	-12.53	1.24	1.42
5	M	287	U	C3'-O3'	-12.53	1.24	1.42
5	M	424	U	C3'-O3'	-12.53	1.24	1.42
2	J	254	A	C3'-O3'	-12.53	1.24	1.42
3	K	76	A	C3'-O3'	-12.53	1.24	1.42
3	K	72	A	C3'-O3'	-12.53	1.24	1.42
3	K	143	A	C3'-O3'	-12.53	1.24	1.42
4	L	445	U	C3'-O3'	-12.53	1.24	1.42
4	L	538	U	C3'-O3'	-12.53	1.24	1.42
4	L	732	U	C3'-O3'	-12.53	1.24	1.42
4	L	795	U	C3'-O3'	-12.53	1.24	1.42
4	L	564	U	C3'-O3'	-12.53	1.24	1.42
3	K	104	A	C3'-O3'	-12.52	1.24	1.42
4	L	447	U	C3'-O3'	-12.52	1.24	1.42
4	L	526	U	C3'-O3'	-12.52	1.24	1.42
4	L	560	U	C3'-O3'	-12.52	1.24	1.42
5	M	329	U	C3'-O3'	-12.52	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	389	U	C3'-O3'	-12.52	1.24	1.42
5	M	439	U	C3'-O3'	-12.52	1.24	1.42
1	I	222	A	C3'-O3'	-12.52	1.24	1.42
1	I	297	A	C3'-O3'	-12.52	1.24	1.42
3	K	77	A	C3'-O3'	-12.52	1.24	1.42
4	L	726	U	C3'-O3'	-12.52	1.24	1.42
6	N	303	U	C3'-O3'	-12.52	1.24	1.42
1	I	122	A	C3'-O3'	-12.52	1.24	1.42
2	J	158	A	C3'-O3'	-12.52	1.24	1.42
3	K	50	A	C3'-O3'	-12.52	1.24	1.42
5	M	337	U	C3'-O3'	-12.52	1.24	1.42
5	M	527	U	C3'-O3'	-12.52	1.24	1.42
4	L	496	U	O3'-P	-12.52	1.46	1.61
1	I	292	A	C3'-O3'	-12.52	1.24	1.42
1	I	330	A	C3'-O3'	-12.52	1.24	1.42
1	I	374	A	C3'-O3'	-12.52	1.24	1.42
2	J	107	A	C3'-O3'	-12.52	1.24	1.42
2	J	175	A	C3'-O3'	-12.52	1.24	1.42
3	K	171	A	C3'-O3'	-12.52	1.24	1.42
4	L	623	U	C3'-O3'	-12.52	1.24	1.42
5	M	402	U	C3'-O3'	-12.52	1.24	1.42
2	J	19	A	C3'-O3'	-12.51	1.24	1.42
2	J	164	A	C3'-O3'	-12.51	1.24	1.42
5	M	490	U	C3'-O3'	-12.51	1.24	1.42
2	J	96	A	C3'-O3'	-12.51	1.24	1.42
2	J	272	A	C3'-O3'	-12.51	1.24	1.42
3	K	137	A	C3'-O3'	-12.51	1.24	1.42
3	K	170	A	C3'-O3'	-12.51	1.24	1.42
4	L	671	U	C3'-O3'	-12.51	1.24	1.42
4	L	718	U	C3'-O3'	-12.51	1.24	1.42
5	M	458	U	C3'-O3'	-12.51	1.24	1.42
3	K	11	A	C3'-O3'	-12.51	1.24	1.42
1	I	52	A	C3'-O3'	-12.51	1.24	1.42
1	I	98	A	C3'-O3'	-12.51	1.24	1.42
2	J	91	A	C3'-O3'	-12.51	1.24	1.42
3	K	6	A	C3'-O3'	-12.51	1.24	1.42
3	K	23	A	C3'-O3'	-12.51	1.24	1.42
3	K	193	A	C3'-O3'	-12.51	1.24	1.42
3	K	216	A	C3'-O3'	-12.51	1.24	1.42
4	L	700	U	C3'-O3'	-12.51	1.24	1.42
4	L	742	U	O3'-P	12.51	1.76	1.61
5	M	285	U	C3'-O3'	-12.51	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	353	U	C3'-O3'	-12.51	1.24	1.42
5	M	391	U	C3'-O3'	-12.51	1.24	1.42
5	M	446	U	C3'-O3'	-12.51	1.24	1.42
5	M	516	U	C3'-O3'	-12.51	1.24	1.42
1	I	179	A	C3'-O3'	-12.51	1.24	1.42
2	J	260	A	C3'-O3'	-12.51	1.24	1.42
5	M	447	U	C3'-O3'	-12.51	1.24	1.42
6	N	473	U	C3'-O3'	-12.51	1.24	1.42
3	K	165	A	C3'-O3'	-12.51	1.24	1.42
6	N	474	U	C3'-O3'	-12.51	1.24	1.42
5	M	483	U	C3'-O3'	-12.51	1.24	1.42
3	K	105	A	C3'-O3'	-12.50	1.24	1.42
1	I	106	A	C3'-O3'	-12.50	1.24	1.42
3	K	109	A	C3'-O3'	-12.50	1.24	1.42
4	L	549	U	C3'-O3'	-12.50	1.24	1.42
5	M	472	U	C3'-O3'	-12.50	1.24	1.42
6	N	386	U	C3'-O3'	-12.50	1.24	1.42
4	L	500	U	C3'-O3'	-12.50	1.24	1.42
4	L	506	U	C3'-O3'	-12.50	1.24	1.42
5	M	522	U	C3'-O3'	-12.50	1.24	1.42
3	K	60	A	C3'-O3'	-12.50	1.24	1.42
3	K	94	A	C3'-O3'	-12.50	1.24	1.42
3	K	107	A	C3'-O3'	-12.50	1.24	1.42
4	L	607	U	C3'-O3'	-12.50	1.24	1.42
4	L	809	U	C3'-O3'	-12.50	1.24	1.42
5	M	390	U	C3'-O3'	-12.50	1.24	1.42
1	I	123	A	C3'-O3'	-12.50	1.24	1.42
1	I	314	A	C3'-O3'	-12.50	1.24	1.42
6	N	420	U	C3'-O3'	-12.50	1.24	1.42
1	I	78	A	C3'-O3'	-12.50	1.24	1.42
1	I	95	A	C3'-O3'	-12.50	1.24	1.42
1	I	288	A	C3'-O3'	-12.50	1.24	1.42
4	L	451	U	C3'-O3'	-12.50	1.24	1.42
4	L	620	U	C3'-O3'	-12.50	1.24	1.42
6	N	280	U	C3'-O3'	-12.50	1.24	1.42
6	N	435	U	C3'-O3'	-12.50	1.24	1.42
6	N	486	U	C3'-O3'	-12.50	1.24	1.42
1	I	91	A	C3'-O3'	-12.49	1.24	1.42
1	I	101	A	C3'-O3'	-12.49	1.24	1.42
1	I	111	A	C3'-O3'	-12.49	1.24	1.42
2	J	98	A	C3'-O3'	-12.49	1.24	1.42
3	K	158	A	O3'-P	12.49	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	434	U	C3'-O3'	-12.49	1.24	1.42
4	L	522	U	C3'-O3'	-12.49	1.24	1.42
4	L	558	U	C3'-O3'	-12.49	1.24	1.42
4	L	596	U	C3'-O3'	-12.49	1.24	1.42
5	M	367	U	C3'-O3'	-12.49	1.24	1.42
5	M	457	U	C3'-O3'	-12.49	1.24	1.42
1	I	113	A	C3'-O3'	-12.49	1.24	1.42
1	I	199	A	C3'-O3'	-12.49	1.24	1.42
2	J	237	A	C3'-O3'	-12.49	1.24	1.42
3	K	110	A	C3'-O3'	-12.49	1.24	1.42
4	L	436	U	C3'-O3'	-12.49	1.24	1.42
5	M	461	U	C3'-O3'	-12.49	1.24	1.42
6	N	431	U	C3'-O3'	-12.49	1.24	1.42
1	I	8	A	C3'-O3'	-12.49	1.24	1.42
3	K	52	A	C3'-O3'	-12.49	1.24	1.42
3	K	63	A	C3'-O3'	-12.49	1.24	1.42
3	K	204	A	C3'-O3'	-12.49	1.24	1.42
3	K	217	A	C3'-O3'	-12.49	1.24	1.42
4	L	441	U	C3'-O3'	-12.49	1.24	1.42
5	M	319	U	O3'-P	12.49	1.76	1.61
6	N	292	U	C3'-O3'	-12.49	1.24	1.42
6	N	468	U	C3'-O3'	-12.49	1.24	1.42
5	M	478	U	C3'-O3'	-12.49	1.24	1.42
6	N	495	U	C3'-O3'	-12.49	1.24	1.42
1	I	23	A	C3'-O3'	-12.49	1.24	1.42
2	J	85	A	C3'-O3'	-12.49	1.24	1.42
3	K	85	A	C3'-O3'	-12.49	1.24	1.42
4	L	649	U	C3'-O3'	-12.49	1.24	1.42
4	L	688	U	C3'-O3'	-12.49	1.24	1.42
5	M	395	U	C3'-O3'	-12.49	1.24	1.42
1	I	79	A	C3'-O3'	-12.48	1.24	1.42
1	I	134	A	C3'-O3'	-12.48	1.24	1.42
1	I	160	A	C3'-O3'	-12.48	1.24	1.42
5	M	397	U	C3'-O3'	-12.48	1.24	1.42
1	I	170	A	C3'-O3'	-12.48	1.24	1.42
3	K	30	A	C3'-O3'	-12.48	1.24	1.42
3	K	226	A	C3'-O3'	-12.48	1.24	1.42
4	L	568	U	C3'-O3'	-12.48	1.24	1.42
4	L	621	U	C3'-O3'	-12.48	1.24	1.42
5	M	428	U	C3'-O3'	-12.48	1.24	1.42
5	M	479	U	C3'-O3'	-12.48	1.24	1.42
6	N	461	U	C3'-O3'	-12.48	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	144	A	C3'-O3'	-12.48	1.24	1.42
3	K	228	A	C3'-O3'	-12.48	1.24	1.42
4	L	517	U	C3'-O3'	-12.48	1.24	1.42
4	L	755	U	C3'-O3'	-12.48	1.24	1.42
4	L	817	U	C3'-O3'	-12.48	1.24	1.42
3	K	83	A	C3'-O3'	-12.48	1.24	1.42
3	K	260	A	C3'-O3'	-12.48	1.24	1.42
4	L	496	U	C3'-O3'	-12.48	1.24	1.42
4	L	663	U	C3'-O3'	-12.48	1.24	1.42
5	M	373	U	C3'-O3'	-12.48	1.24	1.42
6	N	314	U	C3'-O3'	-12.48	1.24	1.42
6	N	324	U	C3'-O3'	-12.48	1.24	1.42
1	I	159	A	C3'-O3'	-12.48	1.24	1.42
1	I	399	A	C3'-O3'	-12.48	1.24	1.42
2	J	69	A	C3'-O3'	-12.48	1.24	1.42
4	L	461	U	C3'-O3'	-12.48	1.24	1.42
4	L	502	U	C3'-O3'	-12.48	1.24	1.42
4	L	608	U	C3'-O3'	-12.48	1.24	1.42
6	N	347	U	C3'-O3'	-12.48	1.24	1.42
6	N	375	U	C3'-O3'	-12.48	1.24	1.42
3	K	237	A	C3'-O3'	-12.48	1.24	1.42
4	L	597	U	C3'-O3'	-12.48	1.24	1.42
5	M	278	U	C3'-O3'	-12.48	1.24	1.42
5	M	307	U	C3'-O3'	-12.48	1.24	1.42
5	M	469	U	C3'-O3'	-12.48	1.24	1.42
6	N	291	U	C3'-O3'	-12.48	1.24	1.42
6	N	340	U	C3'-O3'	-12.48	1.24	1.42
5	M	552	U	C3'-O3'	-12.48	1.24	1.42
1	I	62	A	C3'-O3'	-12.47	1.24	1.42
3	K	159	A	C3'-O3'	-12.47	1.24	1.42
1	I	110	A	C3'-O3'	-12.47	1.24	1.42
2	J	4	A	C3'-O3'	-12.47	1.24	1.42
2	J	8	A	C3'-O3'	-12.47	1.24	1.42
2	J	243	A	C3'-O3'	-12.47	1.24	1.42
3	K	61	A	C3'-O3'	-12.47	1.24	1.42
3	K	192	A	C3'-O3'	-12.47	1.24	1.42
3	K	248	A	C3'-O3'	-12.47	1.24	1.42
4	L	765	U	C3'-O3'	-12.47	1.24	1.42
5	M	362	U	C3'-O3'	-12.47	1.24	1.42
1	I	117	A	C3'-O3'	-12.47	1.24	1.42
4	L	580	U	C3'-O3'	-12.47	1.24	1.42
4	L	689	U	C3'-O3'	-12.47	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	712	U	C3'-O3'	-12.47	1.24	1.42
4	L	799	U	C3'-O3'	-12.47	1.24	1.42
4	L	720	U	C3'-O3'	-12.47	1.24	1.42
5	M	378	U	C3'-O3'	-12.47	1.24	1.42
5	M	445	U	C3'-O3'	-12.47	1.24	1.42
6	N	365	U	C3'-O3'	-12.47	1.24	1.42
6	N	446	U	C3'-O3'	-12.47	1.24	1.42
6	N	475	U	C3'-O3'	-12.47	1.24	1.42
6	N	496	U	C3'-O3'	-12.47	1.24	1.42
3	K	87	A	C3'-O3'	-12.47	1.24	1.42
3	K	93	A	C3'-O3'	-12.47	1.24	1.42
3	K	225	A	C3'-O3'	-12.47	1.24	1.42
4	L	518	U	C3'-O3'	-12.47	1.24	1.42
4	L	582	U	C3'-O3'	-12.47	1.24	1.42
4	L	701	U	C3'-O3'	-12.47	1.24	1.42
1	I	221	A	C3'-O3'	-12.47	1.24	1.42
1	I	336	A	C3'-O3'	-12.47	1.24	1.42
4	L	815	U	C3'-O3'	-12.46	1.24	1.42
6	N	376	U	C3'-O3'	-12.46	1.24	1.42
6	N	513	U	C3'-O3'	-12.46	1.24	1.42
1	I	145	A	C3'-O3'	-12.46	1.24	1.42
1	I	168	A	C3'-O3'	-12.46	1.24	1.42
1	I	370	A	C3'-O3'	-12.46	1.24	1.42
1	I	45	A	C3'-O3'	-12.46	1.24	1.42
1	I	107	A	C3'-O3'	-12.46	1.24	1.42
2	J	87	A	C3'-O3'	-12.46	1.24	1.42
2	J	89	A	C3'-O3'	-12.46	1.24	1.42
2	J	221	A	C3'-O3'	-12.46	1.24	1.42
3	K	258	A	C3'-O3'	-12.46	1.24	1.42
4	L	414	U	C3'-O3'	-12.46	1.24	1.42
4	L	450	U	C3'-O3'	-12.46	1.24	1.42
5	M	293	U	C3'-O3'	-12.46	1.24	1.42
4	L	776	U	C3'-O3'	-12.46	1.24	1.42
6	N	298	U	C3'-O3'	-12.46	1.24	1.42
6	N	374	U	C3'-O3'	-12.46	1.24	1.42
6	N	424	U	C3'-O3'	-12.46	1.24	1.42
6	N	479	U	C3'-O3'	-12.46	1.24	1.42
1	I	67	A	C3'-O3'	-12.46	1.24	1.42
1	I	93	A	C3'-O3'	-12.46	1.24	1.42
2	J	22	A	C3'-O3'	-12.46	1.24	1.42
2	J	41	A	C3'-O3'	-12.46	1.24	1.42
2	J	147	A	C3'-O3'	-12.46	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	155	A	C3'-O3'	-12.46	1.24	1.42
2	J	188	A	C3'-O3'	-12.46	1.24	1.42
2	J	201	A	C3'-O3'	-12.46	1.24	1.42
3	K	3	A	C3'-O3'	-12.46	1.24	1.42
3	K	84	A	C3'-O3'	-12.46	1.24	1.42
4	L	559	U	C3'-O3'	-12.46	1.24	1.42
4	L	633	U	C3'-O3'	-12.46	1.24	1.42
4	L	664	U	C3'-O3'	-12.46	1.24	1.42
5	M	386	U	C3'-O3'	-12.46	1.24	1.42
5	M	511	U	C3'-O3'	-12.46	1.24	1.42
5	M	523	U	C3'-O3'	-12.46	1.24	1.42
6	N	451	U	C3'-O3'	-12.46	1.24	1.42
6	N	463	U	C3'-O3'	-12.46	1.24	1.42
1	I	76	A	C3'-O3'	-12.46	1.24	1.42
1	I	22	A	C3'-O3'	-12.45	1.24	1.42
1	I	140	A	C3'-O3'	-12.46	1.24	1.42
1	I	212	A	C3'-O3'	-12.45	1.24	1.42
1	I	280	A	C3'-O3'	-12.46	1.24	1.42
3	K	126	A	C3'-O3'	-12.46	1.24	1.42
5	M	508	U	C3'-O3'	-12.46	1.24	1.42
1	I	390	A	C3'-O3'	-12.45	1.24	1.42
2	J	246	A	C3'-O3'	-12.45	1.24	1.42
3	K	44	A	C3'-O3'	-12.46	1.24	1.42
4	L	418	U	C3'-O3'	-12.45	1.24	1.42
5	M	541	U	C3'-O3'	-12.46	1.24	1.42
6	N	270	U	C3'-O3'	-12.45	1.24	1.42
6	N	490	U	C3'-O3'	-12.45	1.24	1.42
1	I	27	A	C3'-O3'	-12.45	1.24	1.42
1	I	65	A	C3'-O3'	-12.45	1.24	1.42
1	I	217	A	C3'-O3'	-12.45	1.24	1.42
4	L	611	U	C3'-O3'	-12.45	1.24	1.42
4	L	636	U	C3'-O3'	-12.45	1.24	1.42
1	I	71	A	C3'-O3'	-12.45	1.24	1.42
1	I	385	A	C3'-O3'	-12.45	1.24	1.42
2	J	227	A	C3'-O3'	-12.45	1.24	1.42
3	K	250	A	C3'-O3'	-12.45	1.24	1.42
4	L	536	U	C3'-O3'	-12.45	1.24	1.42
4	L	631	U	C3'-O3'	-12.45	1.24	1.42
4	L	682	U	C3'-O3'	-12.45	1.24	1.42
6	N	442	U	C3'-O3'	-12.45	1.24	1.42
6	N	500	U	C3'-O3'	-12.45	1.24	1.42
1	I	56	A	C3'-O3'	-12.45	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	255	A	C3'-O3'	-12.45	1.24	1.42
1	I	357	A	C3'-O3'	-12.45	1.24	1.42
3	K	71	A	C3'-O3'	-12.45	1.24	1.42
4	L	756	U	C3'-O3'	-12.45	1.24	1.42
3	K	239	A	C3'-O3'	-12.45	1.24	1.42
4	L	590	U	C3'-O3'	-12.45	1.24	1.42
4	L	715	U	C3'-O3'	-12.45	1.24	1.42
5	M	331	U	C3'-O3'	-12.45	1.24	1.42
5	M	356	U	C3'-O3'	-12.45	1.24	1.42
5	M	456	U	C3'-O3'	-12.45	1.24	1.42
6	N	419	U	C3'-O3'	-12.45	1.24	1.42
5	M	535	U	C3'-O3'	-12.45	1.24	1.42
6	N	302	U	C3'-O3'	-12.45	1.24	1.42
6	N	327	U	C3'-O3'	-12.45	1.24	1.42
6	N	402	U	C3'-O3'	-12.45	1.24	1.42
6	N	409	U	C3'-O3'	-12.45	1.24	1.42
6	N	413	U	C3'-O3'	-12.45	1.24	1.42
1	I	103	A	C3'-O3'	-12.45	1.24	1.42
1	I	204	A	C3'-O3'	-12.45	1.24	1.42
1	I	388	A	C3'-O3'	-12.45	1.24	1.42
2	J	109	A	C3'-O3'	-12.45	1.24	1.42
3	K	82	A	C3'-O3'	-12.45	1.24	1.42
3	K	98	A	C3'-O3'	-12.45	1.24	1.42
4	L	417	U	C3'-O3'	-12.45	1.24	1.42
4	L	485	U	C3'-O3'	-12.45	1.24	1.42
6	N	357	U	C3'-O3'	-12.45	1.24	1.42
1	I	10	A	C3'-O3'	-12.45	1.24	1.42
1	I	28	A	C3'-O3'	-12.44	1.24	1.42
1	I	308	A	C3'-O3'	-12.45	1.24	1.42
2	J	146	A	C3'-O3'	-12.44	1.24	1.42
3	K	17	A	C3'-O3'	-12.45	1.24	1.42
3	K	41	A	C3'-O3'	-12.45	1.24	1.42
3	K	215	A	C3'-O3'	-12.45	1.24	1.42
4	L	507	U	O3'-P	-12.45	1.46	1.61
3	K	128	A	C3'-O3'	-12.44	1.24	1.42
4	L	427	U	C3'-O3'	-12.44	1.24	1.42
6	N	325	U	C3'-O3'	-12.44	1.24	1.42
6	N	391	U	C3'-O3'	-12.44	1.24	1.42
6	N	458	U	C3'-O3'	-12.44	1.24	1.42
6	N	462	U	C3'-O3'	-12.44	1.24	1.42
6	N	530	U	C3'-O3'	-12.45	1.24	1.42
1	I	61	A	C3'-O3'	-12.44	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	164	A	C3'-O3'	-12.44	1.24	1.42
2	J	3	A	C3'-O3'	-12.44	1.24	1.42
2	J	13	A	C3'-O3'	-12.44	1.24	1.42
2	J	44	A	C3'-O3'	-12.44	1.24	1.42
2	J	75	A	C3'-O3'	-12.44	1.24	1.42
2	J	135	A	C3'-O3'	-12.44	1.24	1.42
3	K	118	A	C3'-O3'	-12.44	1.24	1.42
4	L	463	U	C3'-O3'	-12.44	1.24	1.42
5	M	497	U	C3'-O3'	-12.44	1.24	1.42
2	J	125	A	C3'-O3'	-12.44	1.24	1.42
3	K	65	A	C3'-O3'	-12.44	1.24	1.42
4	L	452	U	C3'-O3'	-12.44	1.24	1.42
4	L	515	U	C3'-O3'	-12.44	1.24	1.42
4	L	823	U	C3'-O3'	-12.44	1.24	1.42
5	M	379	U	C3'-O3'	-12.44	1.24	1.42
6	N	313	U	C3'-O3'	-12.44	1.24	1.42
6	N	330	U	C3'-O3'	-12.44	1.24	1.42
2	J	52	A	C3'-O3'	-12.44	1.24	1.42
1	I	26	A	C3'-O3'	-12.44	1.24	1.42
1	I	73	A	C3'-O3'	-12.44	1.24	1.42
1	I	184	A	C3'-O3'	-12.44	1.24	1.42
2	J	179	A	C3'-O3'	-12.44	1.24	1.42
2	J	216	A	C3'-O3'	-12.44	1.24	1.42
3	K	206	A	C3'-O3'	-12.44	1.24	1.42
4	L	433	U	C3'-O3'	-12.44	1.24	1.42
4	L	591	U	C3'-O3'	-12.44	1.24	1.42
4	L	616	U	C3'-O3'	-12.44	1.24	1.42
2	J	271	A	C3'-O3'	-12.44	1.24	1.42
4	L	641	U	C3'-O3'	-12.44	1.24	1.42
4	L	655	U	C3'-O3'	-12.44	1.24	1.42
4	L	677	U	C3'-O3'	-12.44	1.24	1.42
4	L	697	U	C3'-O3'	-12.44	1.24	1.42
4	L	698	U	C3'-O3'	-12.44	1.24	1.42
4	L	709	U	C3'-O3'	-12.44	1.24	1.42
5	M	400	U	C3'-O3'	-12.44	1.24	1.42
5	M	513	U	C3'-O3'	-12.44	1.24	1.42
1	I	254	A	C3'-O3'	-12.44	1.24	1.42
2	J	78	A	C3'-O3'	-12.44	1.24	1.42
2	J	124	A	C3'-O3'	-12.44	1.24	1.42
2	J	202	A	C3'-O3'	-12.44	1.24	1.42
5	M	534	U	C3'-O3'	-12.44	1.24	1.42
6	N	408	U	C3'-O3'	-12.44	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	489	U	C3'-O3'	-12.44	1.24	1.42
3	K	95	A	C3'-O3'	-12.44	1.24	1.42
3	K	203	A	C3'-O3'	-12.44	1.24	1.42
5	M	468	U	C3'-O3'	-12.44	1.24	1.42
6	N	269	U	C3'-O3'	-12.44	1.24	1.42
6	N	503	U	C3'-O3'	-12.44	1.24	1.42
6	N	509	U	C3'-O3'	-12.44	1.24	1.42
1	I	21	A	C3'-O3'	-12.43	1.24	1.42
1	I	68	A	C3'-O3'	-12.43	1.24	1.42
1	I	269	A	C3'-O3'	-12.43	1.24	1.42
2	J	213	A	C3'-O3'	-12.43	1.24	1.42
1	I	296	A	C3'-O3'	-12.43	1.24	1.42
2	J	235	A	C3'-O3'	-12.43	1.24	1.42
3	K	8	A	C3'-O3'	-12.43	1.24	1.42
4	L	540	U	C3'-O3'	-12.43	1.24	1.42
4	L	658	U	C3'-O3'	-12.43	1.24	1.42
5	M	423	U	C3'-O3'	-12.43	1.24	1.42
3	K	160	A	C3'-O3'	-12.43	1.24	1.42
3	K	245	A	C3'-O3'	-12.43	1.24	1.42
4	L	733	U	C3'-O3'	-12.43	1.24	1.42
5	M	335	U	C3'-O3'	-12.43	1.24	1.42
4	L	786	U	C3'-O3'	-12.43	1.24	1.42
4	L	821	U	C3'-O3'	-12.43	1.24	1.42
1	I	57	A	C3'-O3'	-12.43	1.24	1.42
1	I	124	A	C3'-O3'	-12.43	1.24	1.42
1	I	158	A	C3'-O3'	-12.43	1.24	1.42
1	I	410	A	C3'-O3'	-12.43	1.24	1.42
3	K	14	A	C3'-O3'	-12.43	1.24	1.42
3	K	68	A	C3'-O3'	-12.43	1.24	1.42
4	L	665	U	C3'-O3'	-12.43	1.24	1.42
2	J	55	A	C3'-O3'	-12.43	1.24	1.42
2	J	136	A	C3'-O3'	-12.43	1.24	1.42
2	J	205	A	C3'-O3'	-12.43	1.24	1.42
3	K	74	A	C3'-O3'	-12.43	1.24	1.42
4	L	802	U	C3'-O3'	-12.43	1.24	1.42
5	M	481	U	C3'-O3'	-12.43	1.24	1.42
5	M	496	U	C3'-O3'	-12.43	1.24	1.42
6	N	296	U	C3'-O3'	-12.43	1.24	1.42
6	N	516	U	C3'-O3'	-12.43	1.24	1.42
4	L	660	U	C3'-O3'	-12.43	1.24	1.42
4	L	674	U	C3'-O3'	-12.43	1.24	1.42
4	L	675	U	C3'-O3'	-12.43	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	741	U	C3'-O3'	-12.43	1.24	1.42
4	L	779	U	C3'-O3'	-12.43	1.24	1.42
5	M	500	U	C3'-O3'	-12.43	1.24	1.42
5	M	357	U	C3'-O3'	-12.43	1.24	1.42
1	I	118	A	C3'-O3'	-12.43	1.24	1.42
2	J	150	A	C3'-O3'	-12.43	1.24	1.42
1	I	17	A	C3'-O3'	-12.43	1.24	1.42
1	I	110	A	O3'-P	12.43	1.76	1.61
1	I	133	A	C3'-O3'	-12.43	1.24	1.42
2	J	53	A	C3'-O3'	-12.43	1.24	1.42
4	L	638	U	C3'-O3'	-12.43	1.24	1.42
1	I	147	A	C3'-O3'	-12.43	1.24	1.42
1	I	182	A	C3'-O3'	-12.43	1.24	1.42
1	I	265	A	C3'-O3'	-12.43	1.24	1.42
2	J	152	A	C3'-O3'	-12.43	1.24	1.42
3	K	247	A	C3'-O3'	-12.43	1.24	1.42
4	L	491	U	C3'-O3'	-12.43	1.24	1.42
4	L	619	U	C3'-O3'	-12.43	1.24	1.42
4	L	770	U	C3'-O3'	-12.43	1.24	1.42
5	M	346	U	C3'-O3'	-12.43	1.24	1.42
5	M	546	U	C3'-O3'	-12.43	1.24	1.42
6	N	358	U	C3'-O3'	-12.43	1.24	1.42
6	N	418	U	C3'-O3'	-12.43	1.24	1.42
6	N	457	U	C3'-O3'	-12.43	1.24	1.42
6	N	491	U	C3'-O3'	-12.43	1.24	1.42
3	K	238	A	C3'-O3'	-12.42	1.24	1.42
4	L	781	U	C3'-O3'	-12.42	1.24	1.42
1	I	12	A	C3'-O3'	-12.42	1.24	1.42
1	I	318	A	C3'-O3'	-12.42	1.24	1.42
1	I	333	A	C3'-O3'	-12.42	1.24	1.42
2	J	10	A	C3'-O3'	-12.42	1.24	1.42
2	J	172	A	C3'-O3'	-12.42	1.24	1.42
2	J	210	A	C3'-O3'	-12.42	1.24	1.42
3	K	73	A	C3'-O3'	-12.42	1.24	1.42
3	K	79	A	C3'-O3'	-12.42	1.24	1.42
3	K	162	A	C3'-O3'	-12.42	1.24	1.42
4	L	462	U	C3'-O3'	-12.42	1.24	1.42
4	L	465	U	C3'-O3'	-12.42	1.24	1.42
4	L	792	U	C3'-O3'	-12.42	1.24	1.42
4	L	489	U	C3'-O3'	-12.42	1.24	1.42
4	L	493	U	C3'-O3'	-12.42	1.24	1.42
4	L	542	U	C3'-O3'	-12.42	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	724	U	C3'-O3'	-12.42	1.24	1.42
4	L	737	U	C3'-O3'	-12.42	1.24	1.42
6	N	341	U	C3'-O3'	-12.42	1.24	1.42
4	L	814	U	C3'-O3'	-12.42	1.24	1.42
5	M	470	U	C3'-O3'	-12.42	1.24	1.42
1	I	7	A	C3'-O3'	-12.42	1.24	1.42
2	J	47	A	C3'-O3'	-12.42	1.24	1.42
2	J	128	A	C3'-O3'	-12.42	1.24	1.42
3	K	39	A	C3'-O3'	-12.42	1.24	1.42
4	L	467	U	C3'-O3'	-12.42	1.24	1.42
4	L	743	U	C3'-O3'	-12.42	1.24	1.42
5	M	340	U	C3'-O3'	-12.42	1.24	1.42
1	I	195	A	C3'-O3'	-12.42	1.24	1.42
1	I	307	A	C3'-O3'	-12.42	1.24	1.42
1	I	396	A	C3'-O3'	-12.42	1.24	1.42
2	J	21	A	C3'-O3'	-12.42	1.24	1.42
2	J	36	A	C3'-O3'	-12.42	1.24	1.42
5	M	351	U	C3'-O3'	-12.42	1.24	1.42
5	M	540	U	C3'-O3'	-12.42	1.24	1.42
2	J	168	A	C3'-O3'	-12.42	1.24	1.42
2	J	218	A	C3'-O3'	-12.42	1.24	1.42
3	K	1	A	C3'-O3'	-12.42	1.24	1.42
3	K	132	A	C3'-O3'	-12.42	1.24	1.42
3	K	227	A	C3'-O3'	-12.42	1.24	1.42
4	L	635	U	C3'-O3'	-12.42	1.24	1.42
4	L	780	U	C3'-O3'	-12.42	1.24	1.42
4	L	790	U	C3'-O3'	-12.42	1.24	1.42
6	N	452	U	C3'-O3'	-12.42	1.24	1.42
1	I	16	A	C3'-O3'	-12.42	1.24	1.42
1	I	192	A	C3'-O3'	-12.42	1.24	1.42
4	L	811	U	C3'-O3'	-12.42	1.24	1.42
1	I	15	A	C3'-O3'	-12.42	1.24	1.42
1	I	69	A	C3'-O3'	-12.42	1.24	1.42
1	I	351	A	C3'-O3'	-12.42	1.24	1.42
2	J	224	A	C3'-O3'	-12.42	1.24	1.42
1	I	177	A	C3'-O3'	-12.42	1.24	1.42
2	J	25	A	C3'-O3'	-12.42	1.24	1.42
5	M	318	U	C3'-O3'	-12.42	1.24	1.42
6	N	368	U	C3'-O3'	-12.42	1.24	1.42
2	J	74	A	C3'-O3'	-12.42	1.24	1.42
2	J	183	A	C3'-O3'	-12.42	1.24	1.42
3	K	182	A	C3'-O3'	-12.42	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	214	A	C3'-O3'	-12.42	1.24	1.42
3	K	249	A	C3'-O3'	-12.42	1.24	1.42
4	L	571	U	C3'-O3'	-12.42	1.24	1.42
4	L	757	U	C3'-O3'	-12.42	1.24	1.42
4	L	807	U	C3'-O3'	-12.42	1.24	1.42
5	M	467	U	C3'-O3'	-12.42	1.24	1.42
6	N	501	U	C3'-O3'	-12.42	1.24	1.42
1	I	90	A	C3'-O3'	-12.41	1.24	1.42
1	I	389	A	O3'-P	12.41	1.76	1.61
2	J	113	A	C3'-O3'	-12.41	1.24	1.42
2	J	259	A	C3'-O3'	-12.41	1.24	1.42
3	K	10	A	C3'-O3'	-12.41	1.24	1.42
4	L	430	U	C3'-O3'	-12.41	1.24	1.42
5	M	345	U	C3'-O3'	-12.41	1.24	1.42
3	K	25	A	C3'-O3'	-12.41	1.24	1.42
4	L	474	U	C3'-O3'	-12.41	1.24	1.42
6	N	343	U	C3'-O3'	-12.41	1.24	1.42
6	N	369	U	C3'-O3'	-12.41	1.24	1.42
4	L	816	U	C3'-O3'	-12.41	1.24	1.42
5	M	434	U	C3'-O3'	-12.41	1.24	1.42
5	M	452	U	C3'-O3'	-12.41	1.24	1.42
5	M	514	U	C3'-O3'	-12.41	1.24	1.42
6	N	346	U	C3'-O3'	-12.41	1.24	1.42
1	I	115	A	C3'-O3'	-12.41	1.24	1.42
1	I	166	A	C3'-O3'	-12.41	1.24	1.42
1	I	120	A	C3'-O3'	-12.41	1.24	1.42
1	I	156	A	C3'-O3'	-12.41	1.24	1.42
1	I	193	A	C3'-O3'	-12.41	1.24	1.42
2	J	86	A	C3'-O3'	-12.41	1.24	1.42
2	J	66	A	C3'-O3'	-12.41	1.24	1.42
2	J	159	A	C3'-O3'	-12.41	1.24	1.42
2	J	275	A	C3'-O3'	-12.41	1.24	1.42
3	K	7	A	C3'-O3'	-12.41	1.24	1.42
3	K	151	A	C3'-O3'	-12.41	1.24	1.42
5	M	296	U	C3'-O3'	-12.41	1.24	1.42
3	K	199	A	C3'-O3'	-12.41	1.24	1.42
3	K	236	A	C3'-O3'	-12.41	1.24	1.42
6	N	397	U	C3'-O3'	-12.41	1.24	1.42
4	L	547	U	C3'-O3'	-12.41	1.24	1.42
6	N	497	U	C3'-O3'	-12.41	1.24	1.42
6	N	518	U	C3'-O3'	-12.41	1.24	1.42
1	I	243	A	C3'-O3'	-12.41	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	15	A	C3'-O3'	-12.41	1.24	1.42
2	J	207	A	C3'-O3'	-12.41	1.24	1.42
1	I	36	A	C3'-O3'	-12.41	1.24	1.42
1	I	181	A	C3'-O3'	-12.41	1.24	1.42
1	I	183	A	C3'-O3'	-12.41	1.24	1.42
2	J	24	A	C3'-O3'	-12.41	1.24	1.42
5	M	501	U	C3'-O3'	-12.41	1.24	1.42
2	J	54	A	C3'-O3'	-12.41	1.24	1.42
2	J	108	A	C3'-O3'	-12.41	1.24	1.42
2	J	141	A	C3'-O3'	-12.41	1.24	1.42
2	J	248	A	C3'-O3'	-12.41	1.24	1.42
2	J	251	A	C3'-O3'	-12.41	1.24	1.42
3	K	34	A	C3'-O3'	-12.41	1.24	1.42
4	L	537	U	C3'-O3'	-12.41	1.24	1.42
4	L	573	U	C3'-O3'	-12.41	1.24	1.42
4	L	767	U	C3'-O3'	-12.41	1.24	1.42
4	L	777	U	C3'-O3'	-12.41	1.24	1.42
5	M	406	U	C3'-O3'	-12.41	1.24	1.42
5	M	463	U	C3'-O3'	-12.41	1.24	1.42
5	M	484	U	C3'-O3'	-12.41	1.24	1.42
5	M	494	U	C3'-O3'	-12.41	1.24	1.42
5	M	524	U	C3'-O3'	-12.41	1.24	1.42
6	N	320	U	C3'-O3'	-12.41	1.24	1.42
6	N	352	U	C3'-O3'	-12.41	1.24	1.42
6	N	363	U	C3'-O3'	-12.41	1.24	1.42
6	N	364	U	C3'-O3'	-12.41	1.24	1.42
6	N	380	U	C3'-O3'	-12.41	1.24	1.42
6	N	385	U	C3'-O3'	-12.41	1.24	1.42
6	N	525	U	C3'-O3'	-12.41	1.24	1.42
1	I	50	A	C3'-O3'	-12.40	1.24	1.42
1	I	112	A	C3'-O3'	-12.40	1.24	1.42
1	I	135	A	C3'-O3'	-12.40	1.24	1.42
1	I	266	A	C3'-O3'	-12.40	1.24	1.42
2	J	6	A	C3'-O3'	-12.40	1.24	1.42
2	J	232	A	C3'-O3'	-12.40	1.24	1.42
2	J	273	A	C3'-O3'	-12.40	1.24	1.42
4	L	529	U	C3'-O3'	-12.40	1.24	1.42
4	L	668	U	C3'-O3'	-12.40	1.24	1.42
5	M	529	U	C3'-O3'	-12.40	1.24	1.42
5	M	544	U	C3'-O3'	-12.40	1.24	1.42
5	M	549	U	C3'-O3'	-12.40	1.24	1.42
6	N	335	U	C3'-O3'	-12.40	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	507	U	C3'-O3'	-12.40	1.24	1.42
5	M	313	U	C3'-O3'	-12.40	1.24	1.42
5	M	419	U	C3'-O3'	-12.40	1.24	1.42
6	N	390	U	C3'-O3'	-12.40	1.24	1.42
6	N	478	U	C3'-O3'	-12.40	1.24	1.42
6	N	483	U	C3'-O3'	-12.40	1.24	1.42
6	N	514	U	C3'-O3'	-12.40	1.24	1.42
2	J	31	A	C3'-O3'	-12.40	1.24	1.42
2	J	81	A	C3'-O3'	-12.40	1.24	1.42
2	J	119	A	C3'-O3'	-12.40	1.24	1.42
3	K	112	A	C3'-O3'	-12.40	1.24	1.42
3	K	35	A	C3'-O3'	-12.40	1.24	1.42
3	K	129	A	C3'-O3'	-12.40	1.24	1.42
3	K	173	A	C3'-O3'	-12.40	1.24	1.42
4	L	528	U	C3'-O3'	-12.40	1.24	1.42
4	L	678	U	C3'-O3'	-12.40	1.24	1.42
5	M	441	U	C3'-O3'	-12.40	1.24	1.42
5	M	536	U	C3'-O3'	-12.40	1.24	1.42
6	N	353	U	C3'-O3'	-12.40	1.24	1.42
6	N	484	U	C3'-O3'	-12.40	1.24	1.42
6	N	499	U	C3'-O3'	-12.40	1.24	1.42
5	M	492	U	C3'-O3'	-12.40	1.24	1.42
6	N	362	U	C3'-O3'	-12.40	1.24	1.42
6	N	480	U	C3'-O3'	-12.40	1.24	1.42
6	N	522	U	C3'-O3'	-12.40	1.24	1.42
1	I	88	A	C3'-O3'	-12.40	1.24	1.42
1	I	150	A	C3'-O3'	-12.40	1.24	1.42
1	I	311	A	C3'-O3'	-12.40	1.24	1.42
2	J	42	A	C3'-O3'	-12.40	1.24	1.42
2	J	111	A	C3'-O3'	-12.40	1.24	1.42
2	J	190	A	C3'-O3'	-12.40	1.24	1.42
3	K	261	A	C3'-O3'	-12.40	1.24	1.42
5	M	528	U	C3'-O3'	-12.40	1.24	1.42
6	N	354	U	C3'-O3'	-12.40	1.24	1.42
1	I	1	A	C3'-O3'	-12.40	1.24	1.42
1	I	163	A	C3'-O3'	-12.40	1.24	1.42
1	I	206	A	C3'-O3'	-12.40	1.24	1.42
1	I	363	A	C3'-O3'	-12.40	1.24	1.42
3	K	66	A	C3'-O3'	-12.40	1.24	1.42
3	K	167	A	C3'-O3'	-12.40	1.24	1.42
5	M	368	U	C3'-O3'	-12.40	1.24	1.42
5	M	474	U	C3'-O3'	-12.40	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	283	U	C3'-O3'	-12.40	1.24	1.42
6	N	387	U	C3'-O3'	-12.40	1.24	1.42
6	N	527	U	C3'-O3'	-12.40	1.24	1.42
4	L	562	U	C3'-O3'	-12.40	1.24	1.42
6	N	505	U	C3'-O3'	-12.40	1.24	1.42
1	I	324	A	C3'-O3'	-12.39	1.24	1.42
2	J	94	A	C3'-O3'	-12.39	1.24	1.42
2	J	194	A	C3'-O3'	-12.39	1.24	1.42
2	J	212	A	C3'-O3'	-12.39	1.24	1.42
2	J	262	A	C3'-O3'	-12.39	1.24	1.42
4	L	449	U	C3'-O3'	-12.39	1.24	1.42
4	L	507	U	C3'-O3'	-12.39	1.24	1.42
5	M	396	U	C3'-O3'	-12.39	1.24	1.42
5	M	512	U	C3'-O3'	-12.39	1.24	1.42
6	N	339	U	C3'-O3'	-12.39	1.24	1.42
1	I	355	A	C3'-O3'	-12.39	1.24	1.42
2	J	11	A	C3'-O3'	-12.39	1.24	1.42
2	J	39	A	C3'-O3'	-12.39	1.24	1.42
2	J	57	A	C3'-O3'	-12.39	1.24	1.42
2	J	268	A	C3'-O3'	-12.39	1.24	1.42
3	K	19	A	C3'-O3'	-12.39	1.24	1.42
3	K	57	A	C3'-O3'	-12.39	1.24	1.42
5	M	412	U	C3'-O3'	-12.39	1.24	1.42
6	N	342	U	C3'-O3'	-12.39	1.24	1.42
6	N	428	U	C3'-O3'	-12.39	1.24	1.42
1	I	34	A	C3'-O3'	-12.39	1.24	1.42
1	I	139	A	C3'-O3'	-12.39	1.24	1.42
2	J	65	A	C3'-O3'	-12.39	1.24	1.42
4	L	613	U	C3'-O3'	-12.39	1.24	1.42
6	N	396	U	C3'-O3'	-12.39	1.24	1.42
6	N	417	U	C3'-O3'	-12.39	1.24	1.42
1	I	59	A	C3'-O3'	-12.39	1.24	1.42
1	I	162	A	C3'-O3'	-12.39	1.24	1.42
2	J	33	A	C3'-O3'	-12.39	1.24	1.42
2	J	234	A	C3'-O3'	-12.39	1.24	1.42
3	K	184	A	C3'-O3'	-12.39	1.24	1.42
3	K	194	A	C3'-O3'	-12.39	1.24	1.42
3	K	205	A	C3'-O3'	-12.39	1.24	1.42
3	K	233	A	C3'-O3'	-12.39	1.24	1.42
4	L	669	U	C3'-O3'	-12.39	1.24	1.42
4	L	711	U	C3'-O3'	-12.39	1.24	1.42
4	L	713	U	C3'-O3'	-12.39	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	364	U	C3'-O3'	-12.39	1.24	1.42
5	M	543	U	C3'-O3'	-12.39	1.24	1.42
6	N	434	U	C3'-O3'	-12.39	1.24	1.42
6	N	449	U	C3'-O3'	-12.39	1.24	1.42
6	N	456	U	C3'-O3'	-12.39	1.24	1.42
6	N	529	U	C3'-O3'	-12.39	1.24	1.42
1	I	153	A	C3'-O3'	-12.39	1.24	1.42
2	J	165	A	C3'-O3'	-12.39	1.24	1.42
2	J	238	A	C3'-O3'	-12.39	1.24	1.42
4	L	551	U	C3'-O3'	-12.39	1.24	1.42
3	K	37	A	C3'-O3'	-12.39	1.24	1.42
3	K	54	A	C3'-O3'	-12.39	1.24	1.42
4	L	629	U	C3'-O3'	-12.39	1.24	1.42
4	L	644	U	C3'-O3'	-12.39	1.24	1.42
4	L	735	U	C3'-O3'	-12.39	1.24	1.42
5	M	320	U	C3'-O3'	-12.39	1.24	1.42
6	N	336	U	C3'-O3'	-12.39	1.24	1.42
5	M	417	U	C3'-O3'	-12.39	1.24	1.42
5	M	462	U	C3'-O3'	-12.39	1.24	1.42
5	M	485	U	C3'-O3'	-12.39	1.24	1.42
6	N	329	U	C3'-O3'	-12.39	1.24	1.42
6	N	493	U	C3'-O3'	-12.39	1.24	1.42
1	I	35	A	C3'-O3'	-12.38	1.24	1.42
1	I	42	A	C3'-O3'	-12.39	1.24	1.42
1	I	225	A	C3'-O3'	-12.39	1.24	1.42
2	J	50	A	C3'-O3'	-12.39	1.24	1.42
3	K	28	A	C3'-O3'	-12.39	1.24	1.42
4	L	454	U	C3'-O3'	-12.39	1.24	1.42
2	J	12	A	C3'-O3'	-12.38	1.24	1.42
2	J	63	A	C3'-O3'	-12.38	1.24	1.42
2	J	157	A	C3'-O3'	-12.38	1.24	1.42
3	K	21	A	C3'-O3'	-12.38	1.24	1.42
3	K	96	A	C3'-O3'	-12.38	1.24	1.42
3	K	139	A	C3'-O3'	-12.38	1.24	1.42
4	L	509	U	C3'-O3'	-12.38	1.24	1.42
4	L	630	U	C3'-O3'	-12.38	1.24	1.42
4	L	783	U	C3'-O3'	-12.39	1.24	1.42
6	N	351	U	C3'-O3'	-12.39	1.24	1.42
4	L	774	U	C3'-O3'	-12.38	1.24	1.42
5	M	300	U	C3'-O3'	-12.38	1.24	1.42
5	M	488	U	C3'-O3'	-12.38	1.24	1.42
5	M	526	U	C3'-O3'	-12.38	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	537	U	C3'-O3'	-12.38	1.24	1.42
6	N	464	U	C3'-O3'	-12.38	1.24	1.42
6	N	514	U	O3'-P	12.38	1.76	1.61
1	I	3	A	C3'-O3'	-12.38	1.24	1.42
1	I	89	A	C3'-O3'	-12.38	1.24	1.42
1	I	256	A	C3'-O3'	-12.38	1.24	1.42
2	J	58	A	C3'-O3'	-12.38	1.24	1.42
3	K	5	A	O3'-P	12.38	1.76	1.61
3	K	22	A	C3'-O3'	-12.38	1.24	1.42
4	L	429	U	C3'-O3'	-12.38	1.24	1.42
4	L	553	U	C3'-O3'	-12.38	1.24	1.42
4	L	793	U	C3'-O3'	-12.38	1.24	1.42
6	N	373	U	C3'-O3'	-12.38	1.24	1.42
1	I	44	A	C3'-O3'	-12.38	1.24	1.42
1	I	72	A	C3'-O3'	-12.38	1.24	1.42
1	I	172	A	C3'-O3'	-12.38	1.24	1.42
2	J	83	A	C3'-O3'	-12.38	1.24	1.42
4	L	622	U	C3'-O3'	-12.38	1.24	1.42
1	I	190	A	C3'-O3'	-12.38	1.24	1.42
2	J	17	A	C3'-O3'	-12.38	1.24	1.42
2	J	249	A	C3'-O3'	-12.38	1.24	1.42
3	K	55	A	C3'-O3'	-12.38	1.24	1.42
3	K	70	A	C3'-O3'	-12.38	1.24	1.42
3	K	138	A	C3'-O3'	-12.38	1.24	1.42
5	M	408	U	C3'-O3'	-12.38	1.24	1.42
3	K	255	A	C3'-O3'	-12.38	1.24	1.42
4	L	499	U	C3'-O3'	-12.38	1.24	1.42
4	L	612	U	C3'-O3'	-12.38	1.24	1.42
4	L	640	U	C3'-O3'	-12.38	1.24	1.42
5	M	440	U	C3'-O3'	-12.38	1.24	1.42
5	M	499	U	C3'-O3'	-12.38	1.24	1.42
6	N	453	U	C3'-O3'	-12.38	1.24	1.42
6	N	487	U	C3'-O3'	-12.38	1.24	1.42
6	N	520	U	C3'-O3'	-12.38	1.24	1.42
1	I	13	A	C3'-O3'	-12.38	1.24	1.42
1	I	46	A	C3'-O3'	-12.38	1.24	1.42
1	I	171	A	C3'-O3'	-12.38	1.24	1.42
4	L	684	U	C3'-O3'	-12.38	1.24	1.42
1	I	19	A	C3'-O3'	-12.38	1.24	1.42
1	I	92	A	C3'-O3'	-12.38	1.24	1.42
1	I	127	A	C3'-O3'	-12.38	1.24	1.42
1	I	138	A	C3'-O3'	-12.38	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	335	A	C3'-O3'	-12.38	1.24	1.42
2	J	1	A	C3'-O3'	-12.38	1.24	1.42
2	J	18	A	C3'-O3'	-12.38	1.24	1.42
2	J	20	A	C3'-O3'	-12.38	1.24	1.42
2	J	177	A	C3'-O3'	-12.38	1.24	1.42
3	K	189	A	C3'-O3'	-12.38	1.24	1.42
3	K	222	A	C3'-O3'	-12.38	1.24	1.42
4	L	456	U	C3'-O3'	-12.38	1.24	1.42
4	L	656	U	C3'-O3'	-12.38	1.24	1.42
6	N	521	U	C3'-O3'	-12.38	1.24	1.42
4	L	440	U	C3'-O3'	-12.38	1.24	1.42
4	L	624	U	C3'-O3'	-12.38	1.24	1.42
4	L	679	U	C3'-O3'	-12.38	1.24	1.42
4	L	727	U	C3'-O3'	-12.38	1.24	1.42
5	M	375	U	C3'-O3'	-12.38	1.24	1.42
6	N	309	U	C3'-O3'	-12.38	1.24	1.42
6	N	331	U	C3'-O3'	-12.38	1.24	1.42
6	N	524	U	C3'-O3'	-12.38	1.24	1.42
1	I	102	A	C3'-O3'	-12.38	1.24	1.42
1	I	174	A	C3'-O3'	-12.38	1.24	1.42
1	I	29	A	C3'-O3'	-12.37	1.24	1.42
2	J	110	A	C3'-O3'	-12.37	1.24	1.42
2	J	185	A	C3'-O3'	-12.38	1.24	1.42
3	K	32	A	C3'-O3'	-12.38	1.24	1.42
3	K	127	A	C3'-O3'	-12.38	1.24	1.42
3	K	133	A	C3'-O3'	-12.38	1.24	1.42
3	K	145	A	C3'-O3'	-12.38	1.24	1.42
4	L	626	U	C3'-O3'	-12.38	1.24	1.42
4	L	648	U	C3'-O3'	-12.38	1.24	1.42
4	L	721	U	C3'-O3'	-12.37	1.24	1.42
4	L	803	U	C3'-O3'	-12.37	1.24	1.42
5	M	332	U	C3'-O3'	-12.38	1.24	1.42
5	M	545	U	C3'-O3'	-12.38	1.24	1.42
6	N	333	U	C3'-O3'	-12.38	1.24	1.42
6	N	472	U	C3'-O3'	-12.38	1.24	1.42
6	N	485	U	C3'-O3'	-12.38	1.24	1.42
1	I	24	A	C3'-O3'	-12.37	1.24	1.42
1	I	154	A	C3'-O3'	-12.37	1.24	1.42
1	I	213	A	C3'-O3'	-12.37	1.24	1.42
2	J	264	A	C3'-O3'	-12.37	1.24	1.42
3	K	106	A	C3'-O3'	-12.37	1.24	1.42
3	K	134	A	C3'-O3'	-12.37	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	126	A	C3'-O3'	-12.37	1.24	1.42
3	K	156	A	C3'-O3'	-12.37	1.24	1.42
3	K	200	A	C3'-O3'	-12.37	1.24	1.42
4	L	416	U	O3'-P	12.37	1.75	1.61
4	L	520	U	C3'-O3'	-12.37	1.24	1.42
5	M	311	U	C3'-O3'	-12.37	1.24	1.42
4	L	670	U	C3'-O3'	-12.37	1.24	1.42
4	L	734	U	C3'-O3'	-12.37	1.24	1.42
6	N	519	U	C3'-O3'	-12.37	1.24	1.42
5	M	521	U	C3'-O3'	-12.37	1.24	1.42
5	M	525	U	C3'-O3'	-12.37	1.24	1.42
6	N	502	U	C3'-O3'	-12.37	1.24	1.42
1	I	80	A	C3'-O3'	-12.37	1.24	1.42
1	I	146	A	C3'-O3'	-12.37	1.24	1.42
1	I	211	A	C3'-O3'	-12.37	1.24	1.42
2	J	34	A	C3'-O3'	-12.37	1.24	1.42
2	J	77	A	C3'-O3'	-12.37	1.24	1.42
2	J	97	A	C3'-O3'	-12.37	1.24	1.42
3	K	111	A	C3'-O3'	-12.37	1.24	1.42
4	L	531	U	C3'-O3'	-12.37	1.24	1.42
6	N	481	U	C3'-O3'	-12.37	1.24	1.42
1	I	173	A	C3'-O3'	-12.37	1.24	1.42
2	J	105	A	C3'-O3'	-12.37	1.24	1.42
2	J	229	A	C3'-O3'	-12.37	1.24	1.42
3	K	13	A	C3'-O3'	-12.37	1.24	1.42
4	L	647	U	C3'-O3'	-12.37	1.24	1.42
4	L	729	U	O3'-P	12.37	1.75	1.61
5	M	365	U	C3'-O3'	-12.37	1.24	1.42
5	M	431	U	O3'-P	12.37	1.75	1.61
5	M	502	U	C3'-O3'	-12.37	1.24	1.42
5	M	539	U	C3'-O3'	-12.37	1.24	1.42
6	N	379	U	C3'-O3'	-12.37	1.24	1.42
6	N	440	U	C3'-O3'	-12.37	1.24	1.42
1	I	47	A	C3'-O3'	-12.37	1.24	1.42
1	I	116	A	C3'-O3'	-12.37	1.24	1.42
1	I	169	A	C3'-O3'	-12.37	1.24	1.42
2	J	102	A	C3'-O3'	-12.37	1.24	1.42
2	J	148	A	C3'-O3'	-12.37	1.24	1.42
2	J	154	A	C3'-O3'	-12.37	1.24	1.42
5	M	291	U	C3'-O3'	-12.37	1.24	1.42
1	I	276	A	C3'-O3'	-12.36	1.24	1.42
2	J	2	A	C3'-O3'	-12.36	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	133	A	C3'-O3'	-12.37	1.24	1.42
3	K	58	A	C3'-O3'	-12.37	1.24	1.42
3	K	161	A	C3'-O3'	-12.37	1.24	1.42
4	L	627	U	C3'-O3'	-12.37	1.24	1.42
4	L	628	U	C3'-O3'	-12.37	1.24	1.42
5	M	342	U	C3'-O3'	-12.37	1.24	1.42
5	M	473	U	C3'-O3'	-12.37	1.24	1.42
5	M	495	U	C3'-O3'	-12.37	1.24	1.42
6	N	287	U	C3'-O3'	-12.37	1.24	1.42
6	N	412	U	C3'-O3'	-12.37	1.24	1.42
1	I	180	A	C3'-O3'	-12.36	1.24	1.42
2	J	16	A	C3'-O3'	-12.36	1.24	1.42
5	M	322	U	C3'-O3'	-12.36	1.24	1.42
6	N	322	U	C3'-O3'	-12.36	1.24	1.42
1	I	48	A	C3'-O3'	-12.36	1.24	1.42
1	I	99	A	C3'-O3'	-12.36	1.24	1.42
1	I	251	A	C3'-O3'	-12.36	1.24	1.42
2	J	9	A	C3'-O3'	-12.36	1.24	1.42
2	J	171	A	C3'-O3'	-12.36	1.24	1.42
4	L	504	U	C3'-O3'	-12.36	1.24	1.42
4	L	541	U	C3'-O3'	-12.36	1.24	1.42
4	L	652	U	C3'-O3'	-12.36	1.24	1.42
5	M	489	U	C3'-O3'	-12.36	1.24	1.42
4	L	659	U	C3'-O3'	-12.36	1.24	1.42
4	L	763	U	C3'-O3'	-12.36	1.24	1.42
5	M	530	U	C3'-O3'	-12.36	1.24	1.42
5	M	548	U	C3'-O3'	-12.36	1.24	1.42
6	N	492	U	C3'-O3'	-12.36	1.24	1.42
1	I	87	A	C3'-O3'	-12.36	1.24	1.42
1	I	20	A	C3'-O3'	-12.36	1.24	1.42
1	I	94	A	C3'-O3'	-12.36	1.24	1.42
1	I	208	A	C3'-O3'	-12.36	1.24	1.42
1	I	189	A	C3'-O3'	-12.36	1.24	1.42
2	J	28	A	C3'-O3'	-12.36	1.24	1.42
2	J	43	A	C3'-O3'	-12.36	1.24	1.42
2	J	103	A	C3'-O3'	-12.36	1.24	1.42
2	J	191	A	C3'-O3'	-12.36	1.24	1.42
2	J	245	A	C3'-O3'	-12.36	1.24	1.42
2	J	258	A	C3'-O3'	-12.36	1.24	1.42
3	K	59	A	C3'-O3'	-12.36	1.24	1.42
3	K	117	A	C3'-O3'	-12.36	1.24	1.42
4	L	615	U	C3'-O3'	-12.36	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	800	U	C3'-O3'	-12.36	1.24	1.42
5	M	459	U	C3'-O3'	-12.36	1.24	1.42
3	K	26	A	C3'-O3'	-12.36	1.24	1.42
3	K	116	A	C3'-O3'	-12.36	1.24	1.42
4	L	546	U	C3'-O3'	-12.36	1.24	1.42
4	L	667	U	C3'-O3'	-12.36	1.24	1.42
4	L	789	U	C3'-O3'	-12.36	1.24	1.42
4	L	796	U	C3'-O3'	-12.36	1.24	1.42
5	M	355	U	C3'-O3'	-12.36	1.24	1.42
6	N	427	U	C3'-O3'	-12.36	1.24	1.42
5	M	448	U	C3'-O3'	-12.36	1.24	1.42
5	M	451	U	C3'-O3'	-12.36	1.24	1.42
6	N	429	U	C3'-O3'	-12.36	1.24	1.42
6	N	450	U	C3'-O3'	-12.36	1.24	1.42
1	I	39	A	C3'-O3'	-12.36	1.24	1.42
1	I	51	A	C3'-O3'	-12.36	1.24	1.42
2	J	68	A	C3'-O3'	-12.36	1.24	1.42
2	J	92	A	C3'-O3'	-12.36	1.24	1.42
4	L	552	U	C3'-O3'	-12.36	1.24	1.42
1	I	83	A	C3'-O3'	-12.36	1.24	1.42
2	J	121	A	C3'-O3'	-12.36	1.24	1.42
2	J	226	A	C3'-O3'	-12.36	1.24	1.42
4	L	444	U	C3'-O3'	-12.36	1.24	1.42
4	L	471	U	C3'-O3'	-12.36	1.24	1.42
4	L	585	U	C3'-O3'	-12.36	1.24	1.42
4	L	766	U	C3'-O3'	-12.36	1.24	1.42
5	M	422	U	C3'-O3'	-12.36	1.24	1.42
6	N	307	U	C3'-O3'	-12.36	1.24	1.42
6	N	498	U	C3'-O3'	-12.36	1.24	1.42
6	N	506	U	C3'-O3'	-12.36	1.24	1.42
6	N	510	U	C3'-O3'	-12.36	1.24	1.42
1	I	4	A	C3'-O3'	-12.35	1.24	1.42
1	I	100	A	C3'-O3'	-12.35	1.24	1.42
1	I	114	A	C3'-O3'	-12.35	1.24	1.42
1	I	157	A	C3'-O3'	-12.35	1.24	1.42
1	I	258	A	C3'-O3'	-12.35	1.24	1.42
1	I	329	A	C3'-O3'	-12.35	1.24	1.42
2	J	26	A	C3'-O3'	-12.35	1.24	1.42
2	J	32	A	C3'-O3'	-12.35	1.24	1.42
2	J	70	A	C3'-O3'	-12.35	1.24	1.42
2	J	80	A	C3'-O3'	-12.35	1.24	1.42
2	J	143	A	C3'-O3'	-12.35	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	220	A	C3'-O3'	-12.35	1.24	1.42
3	K	40	A	C3'-O3'	-12.35	1.24	1.42
3	K	244	A	C3'-O3'	-12.35	1.24	1.42
5	M	282	U	C3'-O3'	-12.35	1.24	1.42
1	I	165	A	C3'-O3'	-12.35	1.24	1.42
1	I	178	A	C3'-O3'	-12.35	1.24	1.42
3	K	92	A	C3'-O3'	-12.35	1.24	1.42
3	K	123	A	C3'-O3'	-12.35	1.24	1.42
4	L	645	U	C3'-O3'	-12.35	1.24	1.42
4	L	812	U	C3'-O3'	-12.35	1.24	1.42
6	N	512	U	C3'-O3'	-12.35	1.24	1.42
4	L	691	U	C3'-O3'	-12.35	1.24	1.42
6	N	508	U	C3'-O3'	-12.35	1.24	1.42
1	I	136	A	C3'-O3'	-12.35	1.24	1.42
1	I	155	A	C3'-O3'	-12.35	1.24	1.42
1	I	252	A	O3'-P	-12.35	1.46	1.61
2	J	99	A	C3'-O3'	-12.35	1.24	1.42
4	L	654	U	C3'-O3'	-12.35	1.24	1.42
5	M	542	U	C3'-O3'	-12.35	1.24	1.42
6	N	395	U	C3'-O3'	-12.35	1.24	1.42
1	I	203	A	C3'-O3'	-12.35	1.24	1.42
1	I	300	A	C3'-O3'	-12.35	1.24	1.42
6	N	407	U	C3'-O3'	-12.35	1.24	1.42
2	J	51	A	C3'-O3'	-12.35	1.24	1.42
2	J	161	A	C3'-O3'	-12.35	1.24	1.42
2	J	176	A	C3'-O3'	-12.35	1.24	1.42
2	J	182	A	C3'-O3'	-12.35	1.24	1.42
3	K	172	A	C3'-O3'	-12.35	1.24	1.42
4	L	819	U	C3'-O3'	-12.35	1.24	1.42
4	L	495	U	C3'-O3'	-12.35	1.24	1.42
5	M	324	U	C3'-O3'	-12.35	1.24	1.42
1	I	18	A	C3'-O3'	-12.35	1.24	1.42
1	I	273	A	C3'-O3'	-12.35	1.24	1.42
1	I	313	A	C3'-O3'	-12.35	1.24	1.42
2	J	114	A	C3'-O3'	-12.35	1.24	1.42
6	N	438	U	C3'-O3'	-12.35	1.24	1.42
2	J	193	A	C3'-O3'	-12.35	1.24	1.42
2	J	198	A	C3'-O3'	-12.35	1.24	1.42
4	L	618	U	C3'-O3'	-12.35	1.24	1.42
5	M	411	U	C3'-O3'	-12.35	1.24	1.42
6	N	267	U	C3'-O3'	-12.35	1.24	1.42
3	K	24	A	C3'-O3'	-12.35	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	47	A	C3'-O3'	-12.35	1.24	1.42
3	K	140	A	C3'-O3'	-12.35	1.24	1.42
4	L	680	U	C3'-O3'	-12.35	1.24	1.42
4	L	634	U	C3'-O3'	-12.35	1.24	1.42
4	L	704	U	C3'-O3'	-12.35	1.24	1.42
4	L	752	U	C3'-O3'	-12.35	1.24	1.42
5	M	437	U	C3'-O3'	-12.35	1.24	1.42
5	M	550	U	C3'-O3'	-12.35	1.24	1.42
6	N	384	U	C3'-O3'	-12.35	1.24	1.42
6	N	467	U	C3'-O3'	-12.35	1.24	1.42
6	N	528	U	C3'-O3'	-12.35	1.24	1.42
1	I	187	A	C3'-O3'	-12.34	1.24	1.42
1	I	301	A	C3'-O3'	-12.34	1.24	1.42
1	I	373	A	C3'-O3'	-12.34	1.24	1.42
2	J	23	A	C3'-O3'	-12.34	1.24	1.42
2	J	49	A	C3'-O3'	-12.34	1.24	1.42
3	K	31	A	C3'-O3'	-12.34	1.24	1.42
3	K	100	A	C3'-O3'	-12.34	1.24	1.42
3	K	149	A	C3'-O3'	-12.34	1.24	1.42
3	K	150	A	C3'-O3'	-12.34	1.24	1.42
3	K	183	A	C3'-O3'	-12.34	1.24	1.42
4	L	423	U	C3'-O3'	-12.34	1.24	1.42
4	L	579	U	C3'-O3'	-12.34	1.24	1.42
4	L	787	U	C3'-O3'	-12.34	1.24	1.42
4	L	804	U	C3'-O3'	-12.34	1.24	1.42
4	L	745	U	C3'-O3'	-12.34	1.24	1.42
5	M	302	U	C3'-O3'	-12.34	1.24	1.42
5	M	363	U	C3'-O3'	-12.34	1.24	1.42
5	M	401	U	C3'-O3'	-12.34	1.24	1.42
6	N	305	U	C3'-O3'	-12.34	1.24	1.42
6	N	470	U	C3'-O3'	-12.34	1.24	1.42
1	I	70	A	C3'-O3'	-12.34	1.24	1.42
1	I	191	A	C3'-O3'	-12.34	1.24	1.42
1	I	240	A	C3'-O3'	-12.34	1.24	1.42
1	I	277	A	C3'-O3'	-12.34	1.24	1.42
1	I	287	A	C3'-O3'	-12.34	1.24	1.42
2	J	37	A	C3'-O3'	-12.34	1.24	1.42
3	K	157	A	C3'-O3'	-12.34	1.24	1.42
4	L	503	U	C3'-O3'	-12.34	1.24	1.42
4	L	575	U	C3'-O3'	-12.34	1.24	1.42
4	L	650	U	C3'-O3'	-12.34	1.24	1.42
4	L	788	U	C3'-O3'	-12.34	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	289	U	C3'-O3'	-12.34	1.24	1.42
5	M	487	U	C3'-O3'	-12.34	1.24	1.42
5	M	532	U	C3'-O3'	-12.34	1.24	1.42
6	N	401	U	C3'-O3'	-12.34	1.24	1.42
1	I	41	A	C3'-O3'	-12.34	1.24	1.42
1	I	77	A	C3'-O3'	-12.34	1.24	1.42
1	I	161	A	C3'-O3'	-12.34	1.24	1.42
1	I	194	A	C3'-O3'	-12.34	1.24	1.42
2	J	209	A	C3'-O3'	-12.34	1.24	1.42
3	K	46	A	C3'-O3'	-12.34	1.24	1.42
3	K	103	A	C3'-O3'	-12.34	1.24	1.42
3	K	178	A	C3'-O3'	-12.34	1.24	1.42
4	L	778	U	C3'-O3'	-12.34	1.24	1.42
5	M	433	U	C3'-O3'	-12.34	1.24	1.42
6	N	285	U	C3'-O3'	-12.34	1.24	1.42
6	N	319	U	O3'-P	12.34	1.75	1.61
2	J	14	A	C3'-O3'	-12.34	1.24	1.42
2	J	223	A	C3'-O3'	-12.34	1.24	1.42
3	K	89	A	C3'-O3'	-12.34	1.24	1.42
4	L	443	U	C3'-O3'	-12.34	1.24	1.42
4	L	525	U	C3'-O3'	-12.34	1.24	1.42
6	N	288	U	C3'-O3'	-12.34	1.24	1.42
6	N	338	U	C3'-O3'	-12.34	1.24	1.42
2	J	257	A	C3'-O3'	-12.34	1.24	1.42
3	K	114	A	C3'-O3'	-12.34	1.24	1.42
3	K	265	A	C3'-O3'	-12.34	1.24	1.42
4	L	511	U	C3'-O3'	-12.34	1.24	1.42
4	L	794	U	C3'-O3'	-12.34	1.24	1.42
5	M	385	U	C3'-O3'	-12.34	1.24	1.42
5	M	486	U	C3'-O3'	-12.34	1.24	1.42
5	M	547	U	C3'-O3'	-12.34	1.24	1.42
6	N	318	U	C3'-O3'	-12.34	1.24	1.42
6	N	482	U	C3'-O3'	-12.34	1.24	1.42
1	I	43	A	C3'-O3'	-12.33	1.24	1.42
1	I	126	A	C3'-O3'	-12.33	1.24	1.42
1	I	152	A	C3'-O3'	-12.33	1.24	1.42
1	I	380	A	C3'-O3'	-12.33	1.24	1.42
2	J	56	A	C3'-O3'	-12.33	1.24	1.42
2	J	163	A	C3'-O3'	-12.33	1.24	1.42
2	J	106	A	C3'-O3'	-12.33	1.24	1.42
3	K	27	A	C3'-O3'	-12.33	1.24	1.42
3	K	155	A	C3'-O3'	-12.33	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	211	A	C3'-O3'	-12.33	1.24	1.42
3	K	256	A	C3'-O3'	-12.33	1.24	1.42
4	L	705	U	C3'-O3'	-12.33	1.24	1.42
4	L	716	U	C3'-O3'	-12.33	1.24	1.42
4	L	722	U	C3'-O3'	-12.33	1.24	1.42
5	M	466	U	C3'-O3'	-12.33	1.24	1.42
6	N	403	U	C3'-O3'	-12.33	1.24	1.42
1	I	33	A	C3'-O3'	-12.33	1.24	1.42
1	I	37	A	C3'-O3'	-12.33	1.24	1.42
2	J	215	A	C3'-O3'	-12.33	1.24	1.42
3	K	36	A	C3'-O3'	-12.33	1.24	1.42
3	K	101	A	C3'-O3'	-12.33	1.24	1.42
4	L	470	U	C3'-O3'	-12.33	1.24	1.42
4	L	617	U	C3'-O3'	-12.33	1.24	1.42
6	N	360	U	C3'-O3'	-12.33	1.24	1.42
1	I	82	A	C3'-O3'	-12.33	1.24	1.42
1	I	86	A	C3'-O3'	-12.33	1.24	1.42
3	K	2	A	C3'-O3'	-12.33	1.24	1.42
3	K	135	A	C3'-O3'	-12.33	1.24	1.42
4	L	460	U	C3'-O3'	-12.33	1.24	1.42
1	I	244	A	C3'-O3'	-12.33	1.24	1.42
2	J	64	A	C3'-O3'	-12.33	1.24	1.42
2	J	93	A	C3'-O3'	-12.33	1.24	1.42
3	K	4	A	C3'-O3'	-12.33	1.24	1.42
3	K	5	A	C3'-O3'	-12.33	1.24	1.42
3	K	119	A	C3'-O3'	-12.33	1.24	1.42
3	K	195	A	C3'-O3'	-12.33	1.24	1.42
4	L	487	U	C3'-O3'	-12.33	1.24	1.42
4	L	785	U	C3'-O3'	-12.33	1.24	1.42
5	M	354	U	C3'-O3'	-12.33	1.24	1.42
5	M	519	U	C3'-O3'	-12.33	1.24	1.42
6	N	445	U	C3'-O3'	-12.33	1.24	1.42
6	N	517	U	C3'-O3'	-12.33	1.24	1.42
1	I	257	A	C3'-O3'	-12.32	1.24	1.42
1	I	346	A	C3'-O3'	-12.32	1.24	1.42
2	J	127	A	C3'-O3'	-12.32	1.24	1.42
3	K	38	A	C3'-O3'	-12.32	1.24	1.42
3	K	232	A	C3'-O3'	-12.32	1.24	1.42
4	L	455	U	C3'-O3'	-12.32	1.24	1.42
4	L	646	U	C3'-O3'	-12.32	1.24	1.42
6	N	300	U	C3'-O3'	-12.32	1.24	1.42
6	N	425	U	C3'-O3'	-12.32	1.24	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	132	A	C3'-O3'	-12.32	1.24	1.42
2	J	166	A	C3'-O3'	-12.32	1.24	1.42
2	J	270	A	C3'-O3'	-12.32	1.24	1.42
3	K	190	A	C3'-O3'	-12.32	1.24	1.42
4	L	746	U	C3'-O3'	-12.32	1.24	1.42
4	L	772	U	C3'-O3'	-12.32	1.24	1.42
4	L	810	U	C3'-O3'	-12.32	1.24	1.42
6	N	316	U	C3'-O3'	-12.32	1.24	1.42
6	N	465	U	C3'-O3'	-12.32	1.24	1.42
1	I	32	A	C3'-O3'	-12.32	1.24	1.42
1	I	53	A	C3'-O3'	-12.32	1.24	1.42
1	I	132	A	C3'-O3'	-12.32	1.24	1.42
2	J	88	A	C3'-O3'	-12.32	1.24	1.42
2	J	95	A	C3'-O3'	-12.32	1.24	1.42
3	K	56	A	C3'-O3'	-12.32	1.24	1.42
4	L	601	U	C3'-O3'	-12.32	1.24	1.42
1	I	63	A	C3'-O3'	-12.32	1.25	1.42
1	I	96	A	C3'-O3'	-12.32	1.25	1.42
2	J	116	A	C3'-O3'	-12.32	1.25	1.42
2	J	204	A	C3'-O3'	-12.32	1.24	1.42
3	K	16	A	C3'-O3'	-12.32	1.25	1.42
3	K	69	A	C3'-O3'	-12.32	1.24	1.42
3	K	90	A	C3'-O3'	-12.32	1.24	1.42
6	N	469	U	C3'-O3'	-12.32	1.25	1.42
1	I	141	A	C3'-O3'	-12.32	1.25	1.42
2	J	269	A	C3'-O3'	-12.32	1.25	1.42
4	L	419	U	C3'-O3'	-12.32	1.25	1.42
4	L	510	U	C3'-O3'	-12.32	1.25	1.42
4	L	657	U	C3'-O3'	-12.32	1.25	1.42
4	L	690	U	C3'-O3'	-12.32	1.25	1.42
6	N	306	U	C3'-O3'	-12.32	1.24	1.42
6	N	439	U	C3'-O3'	-12.32	1.24	1.42
4	L	625	U	C3'-O3'	-12.32	1.25	1.42
4	L	808	U	C3'-O3'	-12.32	1.25	1.42
5	M	280	U	C3'-O3'	-12.32	1.25	1.42
6	N	423	U	C3'-O3'	-12.32	1.25	1.42
6	N	494	U	C3'-O3'	-12.32	1.25	1.42
1	I	109	A	C3'-O3'	-12.32	1.25	1.42
1	I	218	A	C3'-O3'	-12.32	1.25	1.42
1	I	291	A	C3'-O3'	-12.32	1.25	1.42
1	I	406	A	C3'-O3'	-12.32	1.25	1.42
3	K	141	A	C3'-O3'	-12.32	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	35	A	C3'-O3'	-12.32	1.25	1.42
2	J	40	A	C3'-O3'	-12.32	1.25	1.42
4	L	481	U	C3'-O3'	-12.32	1.25	1.42
4	L	736	U	C3'-O3'	-12.32	1.25	1.42
2	J	45	A	C3'-O3'	-12.32	1.25	1.42
2	J	61	A	C3'-O3'	-12.32	1.25	1.42
2	J	115	A	C3'-O3'	-12.32	1.25	1.42
2	J	240	A	C3'-O3'	-12.32	1.25	1.42
3	K	9	A	C3'-O3'	-12.32	1.25	1.42
3	K	48	A	C3'-O3'	-12.32	1.25	1.42
3	K	243	A	C3'-O3'	-12.32	1.25	1.42
4	L	438	U	C3'-O3'	-12.32	1.25	1.42
4	L	672	U	C3'-O3'	-12.32	1.25	1.42
4	L	719	U	C3'-O3'	-12.32	1.25	1.42
4	L	771	U	C3'-O3'	-12.32	1.25	1.42
5	M	415	U	C3'-O3'	-12.32	1.25	1.42
5	M	430	U	C3'-O3'	-12.32	1.25	1.42
5	M	510	U	C3'-O3'	-12.32	1.25	1.42
6	N	321	U	C3'-O3'	-12.32	1.25	1.42
5	M	477	U	C3'-O3'	-12.32	1.25	1.42
6	N	460	U	C3'-O3'	-12.32	1.25	1.42
1	I	247	A	C3'-O3'	-12.31	1.25	1.42
1	I	403	A	C3'-O3'	-12.31	1.25	1.42
2	J	130	A	C3'-O3'	-12.31	1.25	1.42
2	J	174	A	C3'-O3'	-12.31	1.25	1.42
4	L	581	U	C3'-O3'	-12.31	1.25	1.42
4	L	717	U	C3'-O3'	-12.31	1.25	1.42
5	M	426	U	C3'-O3'	-12.31	1.25	1.42
6	N	349	U	C3'-O3'	-12.31	1.25	1.42
6	N	459	U	C3'-O3'	-12.31	1.25	1.42
4	L	478	U	C3'-O3'	-12.31	1.25	1.42
4	L	768	U	C3'-O3'	-12.31	1.25	1.42
4	L	782	U	C3'-O3'	-12.31	1.25	1.42
5	M	407	U	C3'-O3'	-12.31	1.25	1.42
6	N	272	U	C3'-O3'	-12.31	1.25	1.42
1	I	75	A	C3'-O3'	-12.31	1.25	1.42
1	I	143	A	C3'-O3'	-12.31	1.25	1.42
1	I	319	A	C3'-O3'	-12.31	1.25	1.42
3	K	130	A	C3'-O3'	-12.31	1.25	1.42
3	K	212	A	C3'-O3'	-12.31	1.25	1.42
2	J	5	A	C3'-O3'	-12.31	1.25	1.42
3	K	75	A	C3'-O3'	-12.31	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	488	U	C3'-O3'	-12.31	1.25	1.42
6	N	277	U	C3'-O3'	-12.31	1.25	1.42
6	N	526	U	C3'-O3'	-12.31	1.25	1.42
1	I	74	A	C3'-O3'	-12.31	1.25	1.42
1	I	131	A	C3'-O3'	-12.31	1.25	1.42
2	J	73	A	C3'-O3'	-12.31	1.25	1.42
4	L	476	U	C3'-O3'	-12.31	1.25	1.42
5	M	398	U	C3'-O3'	-12.31	1.25	1.42
3	K	20	A	C3'-O3'	-12.31	1.25	1.42
3	K	80	A	C3'-O3'	-12.31	1.25	1.42
3	K	254	A	C3'-O3'	-12.31	1.25	1.42
4	L	432	U	C3'-O3'	-12.31	1.25	1.42
4	L	614	U	C3'-O3'	-12.31	1.25	1.42
6	N	311	U	C3'-O3'	-12.31	1.25	1.42
4	L	744	U	C3'-O3'	-12.31	1.25	1.42
5	M	517	U	C3'-O3'	-12.31	1.25	1.42
1	I	167	A	C3'-O3'	-12.30	1.25	1.42
1	I	229	A	C3'-O3'	-12.30	1.25	1.42
1	I	238	A	O3'-P	-12.30	1.46	1.61
2	J	84	A	C3'-O3'	-12.30	1.25	1.42
3	K	12	A	C3'-O3'	-12.30	1.25	1.42
3	K	179	A	C3'-O3'	-12.30	1.25	1.42
3	K	221	A	C3'-O3'	-12.30	1.25	1.42
3	K	234	A	C3'-O3'	-12.30	1.25	1.42
6	N	276	U	C3'-O3'	-12.31	1.25	1.42
4	L	706	U	C3'-O3'	-12.30	1.25	1.42
5	M	374	U	C3'-O3'	-12.30	1.25	1.42
5	M	551	U	C3'-O3'	-12.30	1.25	1.42
6	N	515	U	C3'-O3'	-12.31	1.25	1.42
5	M	420	U	C3'-O3'	-12.30	1.25	1.42
6	N	299	U	C3'-O3'	-12.30	1.25	1.42
6	N	471	U	C3'-O3'	-12.30	1.25	1.42
1	I	207	A	C3'-O3'	-12.30	1.25	1.42
3	K	67	A	C3'-O3'	-12.30	1.25	1.42
6	N	410	U	C3'-O3'	-12.30	1.25	1.42
1	I	64	A	C3'-O3'	-12.30	1.25	1.42
1	I	66	A	C3'-O3'	-12.30	1.25	1.42
1	I	214	A	C3'-O3'	-12.30	1.25	1.42
1	I	290	A	C3'-O3'	-12.30	1.25	1.42
2	J	62	A	C3'-O3'	-12.30	1.25	1.42
3	K	15	A	C3'-O3'	-12.30	1.25	1.42
6	N	406	U	C3'-O3'	-12.30	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	548	U	C3'-O3'	-12.30	1.25	1.42
4	L	798	U	C3'-O3'	-12.30	1.25	1.42
6	N	447	U	C3'-O3'	-12.30	1.25	1.42
1	I	31	A	C3'-O3'	-12.30	1.25	1.42
3	K	29	A	C3'-O3'	-12.30	1.25	1.42
3	K	124	A	C3'-O3'	-12.30	1.25	1.42
1	I	196	A	C3'-O3'	-12.30	1.25	1.42
1	I	412	A	C3'-O3'	-12.30	1.25	1.42
2	J	27	A	C3'-O3'	-12.30	1.25	1.42
3	K	210	A	C3'-O3'	-12.30	1.25	1.42
4	L	448	U	C3'-O3'	-12.30	1.25	1.42
4	L	557	U	C3'-O3'	-12.30	1.25	1.42
4	L	661	U	C3'-O3'	-12.30	1.25	1.42
6	N	414	U	C3'-O3'	-12.30	1.25	1.42
1	I	40	A	C3'-O3'	-12.30	1.25	1.42
1	I	202	A	C3'-O3'	-12.29	1.25	1.42
3	K	169	A	C3'-O3'	-12.29	1.25	1.42
3	K	223	A	C3'-O3'	-12.29	1.25	1.42
4	L	791	U	C3'-O3'	-12.30	1.25	1.42
5	M	444	U	C3'-O3'	-12.30	1.25	1.42
5	M	515	U	C3'-O3'	-12.29	1.25	1.42
6	N	388	U	C3'-O3'	-12.29	1.25	1.42
6	N	511	U	C3'-O3'	-12.29	1.25	1.42
2	J	122	A	C3'-O3'	-12.29	1.25	1.42
1	I	186	A	C3'-O3'	-12.29	1.25	1.42
1	I	237	A	C3'-O3'	-12.29	1.25	1.42
2	J	231	A	C3'-O3'	-12.29	1.25	1.42
6	N	278	U	C3'-O3'	-12.29	1.25	1.42
2	J	242	A	C3'-O3'	-12.29	1.25	1.42
3	K	43	A	C3'-O3'	-12.29	1.25	1.42
3	K	144	A	C3'-O3'	-12.29	1.25	1.42
4	L	592	U	C3'-O3'	-12.29	1.25	1.42
4	L	730	U	C3'-O3'	-12.29	1.25	1.42
5	M	319	U	C3'-O3'	-12.29	1.25	1.42
6	N	477	U	C3'-O3'	-12.29	1.25	1.42
1	I	9	A	C3'-O3'	-12.29	1.25	1.42
1	I	197	A	C3'-O3'	-12.29	1.25	1.42
1	I	259	A	C3'-O3'	-12.29	1.25	1.42
1	I	368	A	C3'-O3'	-12.29	1.25	1.42
2	J	7	A	C3'-O3'	-12.29	1.25	1.42
2	J	72	A	C3'-O3'	-12.29	1.25	1.42
2	J	181	A	C3'-O3'	-12.29	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	728	U	C3'-O3'	-12.29	1.25	1.42
4	L	797	U	C3'-O3'	-12.29	1.25	1.42
4	L	801	U	C3'-O3'	-12.29	1.25	1.42
5	M	531	U	C3'-O3'	-12.29	1.25	1.42
1	I	105	A	C3'-O3'	-12.29	1.25	1.42
1	I	245	A	C3'-O3'	-12.29	1.25	1.42
3	K	113	A	C3'-O3'	-12.29	1.25	1.42
4	L	606	U	C3'-O3'	-12.29	1.25	1.42
6	N	328	U	C3'-O3'	-12.29	1.25	1.42
6	N	466	U	C3'-O3'	-12.29	1.25	1.42
4	L	637	U	C3'-O3'	-12.29	1.25	1.42
6	N	332	U	C3'-O3'	-12.29	1.25	1.42
4	L	805	U	C3'-O3'	-12.29	1.25	1.42
1	I	85	A	C3'-O3'	-12.28	1.25	1.42
1	I	175	A	C3'-O3'	-12.29	1.25	1.42
1	I	233	A	C3'-O3'	-12.29	1.25	1.42
1	I	316	A	C3'-O3'	-12.29	1.25	1.42
2	J	48	A	C3'-O3'	-12.29	1.25	1.42
1	I	232	A	C3'-O3'	-12.28	1.25	1.42
1	I	337	A	C3'-O3'	-12.29	1.25	1.42
2	J	137	A	C3'-O3'	-12.29	1.25	1.42
2	J	139	A	C3'-O3'	-12.28	1.25	1.42
2	J	267	A	C3'-O3'	-12.29	1.25	1.42
3	K	18	A	C3'-O3'	-12.28	1.25	1.42
3	K	62	A	C3'-O3'	-12.29	1.25	1.42
3	K	81	A	C3'-O3'	-12.29	1.25	1.42
4	L	754	U	C3'-O3'	-12.28	1.25	1.42
4	L	822	U	C3'-O3'	-12.29	1.25	1.42
5	M	308	U	C3'-O3'	-12.29	1.25	1.42
5	M	443	U	C3'-O3'	-12.29	1.25	1.42
5	M	507	U	C3'-O3'	-12.28	1.25	1.42
6	N	266	U	C3'-O3'	-12.28	1.25	1.42
6	N	310	U	C3'-O3'	-12.29	1.25	1.42
1	I	384	A	C3'-O3'	-12.28	1.25	1.42
2	J	117	A	C3'-O3'	-12.28	1.25	1.42
2	J	71	A	C3'-O3'	-12.28	1.25	1.42
3	K	95	A	O3'-P	-12.28	1.46	1.61
4	L	556	U	C3'-O3'	-12.28	1.25	1.42
4	L	673	U	C3'-O3'	-12.28	1.25	1.42
5	M	297	U	C3'-O3'	-12.28	1.25	1.42
5	M	330	U	C3'-O3'	-12.28	1.25	1.42
5	M	475	U	C3'-O3'	-12.28	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	518	U	C3'-O3'	-12.28	1.25	1.42
6	N	488	U	C3'-O3'	-12.28	1.25	1.42
6	N	523	U	C3'-O3'	-12.28	1.25	1.42
1	I	14	A	C3'-O3'	-12.28	1.25	1.42
3	K	45	A	C3'-O3'	-12.28	1.25	1.42
3	K	102	A	C3'-O3'	-12.28	1.25	1.42
4	L	466	U	C3'-O3'	-12.28	1.25	1.42
4	L	477	U	C3'-O3'	-12.28	1.25	1.42
4	L	514	U	C3'-O3'	-12.28	1.25	1.42
4	L	584	U	C3'-O3'	-12.28	1.25	1.42
5	M	286	U	C3'-O3'	-12.28	1.25	1.42
5	M	455	U	C3'-O3'	-12.28	1.25	1.42
6	N	436	U	C3'-O3'	-12.28	1.25	1.42
6	N	504	U	C3'-O3'	-12.28	1.25	1.42
1	I	246	A	C3'-O3'	-12.28	1.25	1.42
1	I	379	A	C3'-O3'	-12.28	1.25	1.42
2	J	82	A	C3'-O3'	-12.28	1.25	1.42
2	J	104	A	C3'-O3'	-12.28	1.25	1.42
3	K	136	A	C3'-O3'	-12.28	1.25	1.42
4	L	498	U	C3'-O3'	-12.28	1.25	1.42
4	L	561	U	C3'-O3'	-12.28	1.25	1.42
4	L	749	U	C3'-O3'	-12.28	1.25	1.42
4	L	699	U	C3'-O3'	-12.28	1.25	1.42
5	M	418	U	C3'-O3'	-12.28	1.25	1.42
6	N	294	U	C3'-O3'	-12.28	1.25	1.42
5	M	503	U	C3'-O3'	-12.28	1.25	1.42
6	N	355	U	C3'-O3'	-12.28	1.25	1.42
2	J	214	A	C3'-O3'	-12.27	1.25	1.42
3	K	78	A	C3'-O3'	-12.27	1.25	1.42
6	N	274	U	C3'-O3'	-12.27	1.25	1.42
6	N	344	U	C3'-O3'	-12.27	1.25	1.42
6	N	350	U	C3'-O3'	-12.27	1.25	1.42
1	I	5	A	C3'-O3'	-12.27	1.25	1.42
1	I	281	A	C3'-O3'	-12.27	1.25	1.42
1	I	284	A	C3'-O3'	-12.27	1.25	1.42
2	J	59	A	C3'-O3'	-12.27	1.25	1.42
2	J	225	A	C3'-O3'	-12.27	1.25	1.42
2	J	253	A	C3'-O3'	-12.27	1.25	1.42
4	L	570	U	C3'-O3'	-12.27	1.25	1.42
6	N	455	U	C3'-O3'	-12.27	1.25	1.42
2	J	149	A	C3'-O3'	-12.27	1.25	1.42
2	J	160	A	C3'-O3'	-12.27	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	33	A	C3'-O3'	-12.27	1.25	1.42
4	L	595	U	C3'-O3'	-12.27	1.25	1.42
4	L	600	U	C3'-O3'	-12.27	1.25	1.42
4	L	760	U	C3'-O3'	-12.27	1.25	1.42
1	I	125	A	C3'-O3'	-12.27	1.25	1.42
1	I	198	A	C3'-O3'	-12.27	1.25	1.42
1	I	224	A	C3'-O3'	-12.27	1.25	1.42
4	L	708	U	C3'-O3'	-12.27	1.25	1.42
5	M	429	U	C3'-O3'	-12.27	1.25	1.42
4	L	459	U	C3'-O3'	-12.27	1.25	1.42
5	M	506	U	C3'-O3'	-12.27	1.25	1.42
1	I	149	A	C3'-O3'	-12.27	1.25	1.42
1	I	185	A	C3'-O3'	-12.27	1.25	1.42
1	I	305	A	C3'-O3'	-12.27	1.25	1.42
6	N	317	U	C3'-O3'	-12.27	1.25	1.42
1	I	341	A	C3'-O3'	-12.27	1.25	1.42
2	J	29	A	C3'-O3'	-12.27	1.25	1.42
2	J	38	A	C3'-O3'	-12.27	1.25	1.42
6	N	381	U	C3'-O3'	-12.27	1.25	1.42
4	L	545	U	C3'-O3'	-12.27	1.25	1.42
6	N	284	U	C3'-O3'	-12.27	1.25	1.42
6	N	304	U	C3'-O3'	-12.27	1.25	1.42
6	N	451	U	O3'-P	12.27	1.75	1.61
1	I	299	A	C3'-O3'	-12.26	1.25	1.42
3	K	49	A	C3'-O3'	-12.26	1.25	1.42
3	K	180	A	C3'-O3'	-12.26	1.25	1.42
4	L	694	U	C3'-O3'	-12.26	1.25	1.42
5	M	387	U	C3'-O3'	-12.26	1.25	1.42
5	M	509	U	C3'-O3'	-12.26	1.25	1.42
1	I	352	A	C3'-O3'	-12.26	1.25	1.42
1	I	392	A	C3'-O3'	-12.26	1.25	1.42
2	J	187	A	C3'-O3'	-12.26	1.25	1.42
3	K	42	A	C3'-O3'	-12.26	1.25	1.42
3	K	91	A	C3'-O3'	-12.26	1.25	1.42
4	L	550	U	C3'-O3'	-12.26	1.25	1.42
5	M	352	U	C3'-O3'	-12.26	1.25	1.42
6	N	295	U	C3'-O3'	-12.26	1.25	1.42
6	N	411	U	C3'-O3'	-12.26	1.25	1.42
6	N	476	U	C3'-O3'	-12.26	1.25	1.42
2	J	100	A	C3'-O3'	-12.26	1.25	1.42
4	L	686	U	C3'-O3'	-12.26	1.25	1.42
5	M	464	U	C3'-O3'	-12.26	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	90	A	C3'-O3'	-12.26	1.25	1.42
2	J	196	A	C3'-O3'	-12.26	1.25	1.42
3	K	64	A	C3'-O3'	-12.26	1.25	1.42
3	K	122	A	C3'-O3'	-12.26	1.25	1.42
6	N	422	U	C3'-O3'	-12.26	1.25	1.42
4	L	723	U	C3'-O3'	-12.25	1.25	1.42
1	I	49	A	C3'-O3'	-12.25	1.25	1.42
1	I	54	A	C3'-O3'	-12.25	1.25	1.42
1	I	209	A	C3'-O3'	-12.25	1.25	1.42
5	M	277	U	C3'-O3'	-12.25	1.25	1.42
6	N	393	U	C3'-O3'	-12.25	1.25	1.42
3	K	201	A	C3'-O3'	-12.25	1.25	1.42
4	L	666	U	C3'-O3'	-12.25	1.25	1.42
4	L	710	U	C3'-O3'	-12.25	1.25	1.42
5	M	520	U	C3'-O3'	-12.25	1.25	1.42
6	N	437	U	C3'-O3'	-12.25	1.25	1.42
1	I	215	A	C3'-O3'	-12.25	1.25	1.42
1	I	323	A	C3'-O3'	-12.25	1.25	1.42
1	I	326	A	C3'-O3'	-12.25	1.25	1.42
1	I	368	A	O3'-P	12.25	1.75	1.61
2	J	67	A	C3'-O3'	-12.25	1.25	1.42
2	J	79	A	C3'-O3'	-12.25	1.25	1.42
4	L	415	U	C3'-O3'	-12.25	1.25	1.42
4	L	603	U	C3'-O3'	-12.25	1.25	1.42
4	L	683	U	C3'-O3'	-12.25	1.25	1.42
4	L	750	U	C3'-O3'	-12.25	1.25	1.42
5	M	476	U	C3'-O3'	-12.25	1.25	1.42
6	N	273	U	C3'-O3'	-12.25	1.25	1.42
6	N	443	U	C3'-O3'	-12.25	1.25	1.42
4	L	583	U	C3'-O3'	-12.24	1.25	1.42
6	N	383	U	C3'-O3'	-12.24	1.25	1.42
1	I	395	A	C3'-O3'	-12.24	1.25	1.42
5	M	393	U	C3'-O3'	-12.24	1.25	1.42
6	N	289	U	C3'-O3'	-12.24	1.25	1.42
6	N	404	U	C3'-O3'	-12.24	1.25	1.42
1	I	142	A	C3'-O3'	-12.24	1.25	1.42
1	I	338	A	C3'-O3'	-12.24	1.25	1.42
3	K	51	A	C3'-O3'	-12.24	1.25	1.42
3	K	53	A	C3'-O3'	-12.24	1.25	1.42
3	K	147	A	C3'-O3'	-12.24	1.25	1.42
3	K	166	A	C3'-O3'	-12.24	1.25	1.42
4	L	589	U	C3'-O3'	-12.24	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	738	U	C3'-O3'	-12.24	1.25	1.42
5	M	482	U	C3'-O3'	-12.24	1.25	1.42
6	N	378	U	C3'-O3'	-12.24	1.25	1.42
6	N	421	U	C3'-O3'	-12.24	1.25	1.42
1	I	267	A	C3'-O3'	-12.24	1.25	1.42
1	I	320	A	C3'-O3'	-12.24	1.25	1.42
3	K	146	A	C3'-O3'	-12.24	1.25	1.42
4	L	739	U	C3'-O3'	-12.24	1.25	1.42
5	M	371	U	C3'-O3'	-12.24	1.25	1.42
6	N	377	U	C3'-O3'	-12.24	1.25	1.42
1	I	176	A	C3'-O3'	-12.23	1.25	1.42
5	M	465	U	C3'-O3'	-12.23	1.25	1.42
2	J	138	A	C3'-O3'	-12.23	1.25	1.42
4	L	639	U	C3'-O3'	-12.23	1.25	1.42
5	M	366	U	C3'-O3'	-12.23	1.25	1.42
1	I	378	A	C3'-O3'	-12.23	1.25	1.42
3	K	158	A	C3'-O3'	-12.23	1.25	1.42
3	K	168	A	C3'-O3'	-12.23	1.25	1.42
3	K	188	A	C3'-O3'	-12.23	1.25	1.42
5	M	409	U	C3'-O3'	-12.23	1.25	1.42
4	L	426	U	C3'-O3'	-12.23	1.25	1.42
4	L	437	U	C3'-O3'	-12.23	1.25	1.42
5	M	431	U	C3'-O3'	-12.23	1.25	1.42
5	M	442	U	C3'-O3'	-12.23	1.25	1.42
5	M	471	U	C3'-O3'	-12.23	1.25	1.42
6	N	366	U	C3'-O3'	-12.23	1.25	1.42
6	N	394	U	C3'-O3'	-12.23	1.25	1.42
6	N	399	U	C3'-O3'	-12.23	1.25	1.42
6	N	415	U	C3'-O3'	-12.23	1.25	1.42
6	N	448	U	C3'-O3'	-12.23	1.25	1.42
1	I	262	A	C3'-O3'	-12.23	1.25	1.42
3	K	240	A	C3'-O3'	-12.23	1.25	1.42
5	M	338	U	C3'-O3'	-12.23	1.25	1.42
5	M	493	U	C3'-O3'	-12.23	1.25	1.42
2	J	170	A	C3'-O3'	-12.23	1.25	1.42
2	J	236	A	C3'-O3'	-12.23	1.25	1.42
4	L	605	U	C3'-O3'	-12.23	1.25	1.42
6	N	282	U	C3'-O3'	-12.23	1.25	1.42
6	N	361	U	C3'-O3'	-12.23	1.25	1.42
6	N	454	U	C3'-O3'	-12.23	1.25	1.42
1	I	226	A	C3'-O3'	-12.22	1.25	1.42
1	I	236	A	C3'-O3'	-12.22	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	345	A	C3'-O3'	-12.22	1.25	1.42
1	I	353	A	C3'-O3'	-12.22	1.25	1.42
1	I	371	A	C3'-O3'	-12.22	1.25	1.42
2	J	203	A	C3'-O3'	-12.22	1.25	1.42
5	M	333	U	C3'-O3'	-12.22	1.25	1.42
5	M	410	U	C3'-O3'	-12.22	1.25	1.42
6	N	382	U	C3'-O3'	-12.22	1.25	1.42
4	L	662	U	C3'-O3'	-12.22	1.25	1.42
5	M	360	U	C3'-O3'	-12.22	1.25	1.42
1	I	148	A	C3'-O3'	-12.22	1.25	1.42
1	I	252	A	C3'-O3'	-12.22	1.25	1.42
4	L	464	U	C3'-O3'	-12.22	1.25	1.42
4	L	563	U	C3'-O3'	-12.22	1.25	1.42
4	L	651	U	C3'-O3'	-12.22	1.25	1.42
5	M	310	U	C3'-O3'	-12.22	1.25	1.42
5	M	376	U	C3'-O3'	-12.22	1.25	1.42
5	M	388	U	C3'-O3'	-12.22	1.25	1.42
6	N	389	U	C3'-O3'	-12.22	1.25	1.42
4	L	497	U	C3'-O3'	-12.22	1.25	1.42
1	I	119	A	C3'-O3'	-12.21	1.25	1.42
1	I	219	A	C3'-O3'	-12.21	1.25	1.42
2	J	256	A	C3'-O3'	-12.21	1.25	1.42
3	K	203	A	O3'-P	12.21	1.75	1.61
1	I	270	A	C3'-O3'	-12.21	1.25	1.42
4	L	482	U	C3'-O3'	-12.21	1.25	1.42
1	I	21	A	O3'-P	-12.21	1.46	1.61
1	I	200	A	C3'-O3'	-12.21	1.25	1.42
1	I	321	A	C3'-O3'	-12.21	1.25	1.42
3	K	108	A	C3'-O3'	-12.21	1.25	1.42
5	M	454	U	O3'-P	12.21	1.75	1.61
5	M	504	U	C3'-O3'	-12.21	1.25	1.42
2	J	46	A	C3'-O3'	-12.21	1.25	1.42
5	M	344	U	C3'-O3'	-12.21	1.25	1.42
5	M	399	U	C3'-O3'	-12.21	1.25	1.42
6	N	392	U	C3'-O3'	-12.21	1.25	1.42
1	I	130	A	C3'-O3'	-12.21	1.25	1.42
1	I	223	A	C3'-O3'	-12.21	1.25	1.42
3	K	125	A	C3'-O3'	-12.21	1.25	1.42
3	K	262	A	C3'-O3'	-12.21	1.25	1.42
5	M	404	U	C3'-O3'	-12.21	1.25	1.42
6	N	372	U	C3'-O3'	-12.21	1.25	1.42
2	J	247	A	C3'-O3'	-12.21	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	177	A	C3'-O3'	-12.21	1.25	1.42
3	K	191	A	C3'-O3'	-12.21	1.25	1.42
3	K	229	A	C3'-O3'	-12.20	1.25	1.42
3	K	235	A	C3'-O3'	-12.21	1.25	1.42
5	M	377	U	C3'-O3'	-12.21	1.25	1.42
5	M	453	U	C3'-O3'	-12.21	1.25	1.42
5	M	498	U	C3'-O3'	-12.21	1.25	1.42
5	M	454	U	C3'-O3'	-12.20	1.25	1.42
6	N	359	U	C3'-O3'	-12.21	1.25	1.42
6	N	371	U	C3'-O3'	-12.21	1.25	1.42
1	I	367	A	C3'-O3'	-12.20	1.25	1.42
5	M	341	U	C3'-O3'	-12.20	1.25	1.42
6	N	426	U	C3'-O3'	-12.20	1.25	1.42
2	J	192	A	C3'-O3'	-12.20	1.25	1.42
3	K	28	A	O3'-P	12.20	1.75	1.61
5	M	321	U	C3'-O3'	-12.20	1.25	1.42
1	I	400	A	C3'-O3'	-12.20	1.25	1.42
1	I	129	A	C3'-O3'	-12.20	1.25	1.42
2	J	60	A	C3'-O3'	-12.20	1.25	1.42
4	L	475	U	C3'-O3'	-12.20	1.25	1.42
5	M	343	U	C3'-O3'	-12.20	1.25	1.42
6	N	290	U	C3'-O3'	-12.20	1.25	1.42
6	N	432	U	C3'-O3'	-12.20	1.25	1.42
1	I	294	A	C3'-O3'	-12.19	1.25	1.42
5	M	316	U	C3'-O3'	-12.19	1.25	1.42
5	M	382	U	C3'-O3'	-12.20	1.25	1.42
6	N	279	U	C3'-O3'	-12.20	1.25	1.42
6	N	405	U	C3'-O3'	-12.20	1.25	1.42
1	I	2	A	C3'-O3'	-12.19	1.25	1.42
2	J	156	A	C3'-O3'	-12.19	1.25	1.42
3	K	86	A	C3'-O3'	-12.19	1.25	1.42
3	K	218	A	C3'-O3'	-12.19	1.25	1.42
4	L	594	U	C3'-O3'	-12.19	1.25	1.42
6	N	433	U	C3'-O3'	-12.19	1.25	1.42
1	I	397	A	C3'-O3'	-12.19	1.25	1.42
4	L	567	U	C3'-O3'	-12.19	1.25	1.42
6	N	312	U	C3'-O3'	-12.19	1.25	1.42
1	I	97	A	C3'-O3'	-12.19	1.25	1.42
3	K	196	A	C3'-O3'	-12.19	1.25	1.42
3	K	213	A	C3'-O3'	-12.19	1.25	1.42
4	L	486	U	C3'-O3'	-12.19	1.25	1.42
1	I	268	A	C3'-O3'	-12.18	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	404	A	C3'-O3'	-12.18	1.25	1.42
1	I	274	A	C3'-O3'	-12.18	1.25	1.42
1	I	359	A	C3'-O3'	-12.18	1.25	1.42
1	I	349	A	C3'-O3'	-12.18	1.25	1.42
2	J	123	A	C3'-O3'	-12.18	1.25	1.42
6	N	271	U	C3'-O3'	-12.18	1.25	1.42
1	I	334	A	C3'-O3'	-12.18	1.25	1.42
1	I	348	A	C3'-O3'	-12.18	1.25	1.42
3	K	202	A	C3'-O3'	-12.18	1.25	1.42
4	L	420	U	C3'-O3'	-12.18	1.25	1.42
6	N	367	U	C3'-O3'	-12.18	1.25	1.42
1	I	234	A	C3'-O3'	-12.17	1.25	1.42
1	I	235	A	C3'-O3'	-12.17	1.25	1.42
1	I	304	A	C3'-O3'	-12.17	1.25	1.42
1	I	382	A	C3'-O3'	-12.17	1.25	1.42
3	K	152	A	C3'-O3'	-12.17	1.25	1.42
1	I	278	A	C3'-O3'	-12.17	1.25	1.42
3	K	185	A	C3'-O3'	-12.17	1.25	1.42
5	M	299	U	C3'-O3'	-12.17	1.25	1.42
5	M	327	U	C3'-O3'	-12.17	1.25	1.42
5	M	449	U	C3'-O3'	-12.17	1.25	1.42
6	N	301	U	C3'-O3'	-12.17	1.25	1.42
3	K	163	A	C3'-O3'	-12.17	1.25	1.42
1	I	411	A	C3'-O3'	-12.17	1.25	1.42
4	L	534	U	C3'-O3'	-12.17	1.25	1.42
5	M	288	U	C3'-O3'	-12.17	1.25	1.42
3	K	97	A	C3'-O3'	-12.17	1.25	1.42
4	L	422	U	C3'-O3'	-12.17	1.25	1.42
1	I	279	A	C3'-O3'	-12.16	1.25	1.42
2	J	134	A	C3'-O3'	-12.16	1.25	1.42
4	L	695	U	C3'-O3'	-12.16	1.25	1.42
6	N	334	U	C3'-O3'	-12.16	1.25	1.42
4	L	578	U	C3'-O3'	-12.16	1.25	1.42
5	M	432	U	C3'-O3'	-12.16	1.25	1.42
1	I	108	A	C3'-O3'	-12.16	1.25	1.42
1	I	327	A	C3'-O3'	-12.16	1.25	1.42
1	I	393	A	C3'-O3'	-12.16	1.25	1.42
4	L	747	U	O3'-P	-12.16	1.46	1.61
6	N	326	U	C3'-O3'	-12.16	1.25	1.42
6	N	337	U	C3'-O3'	-12.16	1.25	1.42
6	N	370	U	C3'-O3'	-12.16	1.25	1.42
6	N	444	U	C3'-O3'	-12.16	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	331	A	C3'-O3'	-12.16	1.25	1.42
2	J	112	A	C3'-O3'	-12.16	1.25	1.42
3	K	174	A	C3'-O3'	-12.16	1.25	1.42
4	L	419	U	O3'-P	12.16	1.75	1.61
4	L	761	U	C3'-O3'	-12.16	1.25	1.42
5	M	405	U	C3'-O3'	-12.16	1.25	1.42
5	M	427	U	C3'-O3'	-12.16	1.25	1.42
6	N	345	U	C3'-O3'	-12.16	1.25	1.42
6	N	400	U	C3'-O3'	-12.16	1.25	1.42
1	I	312	A	C3'-O3'	-12.15	1.25	1.42
1	I	360	A	C3'-O3'	-12.15	1.25	1.42
6	N	315	U	C3'-O3'	-12.15	1.25	1.42
6	N	293	U	C3'-O3'	-12.15	1.25	1.42
6	N	356	U	C3'-O3'	-12.15	1.25	1.42
1	I	315	A	C3'-O3'	-12.15	1.25	1.42
5	M	460	U	C3'-O3'	-12.15	1.25	1.42
6	N	416	U	C3'-O3'	-12.15	1.25	1.42
5	M	283	U	C3'-O3'	-12.15	1.25	1.42
6	N	323	U	C3'-O3'	-12.15	1.25	1.42
4	L	442	U	C3'-O3'	-12.14	1.25	1.42
6	N	480	U	O3'-P	12.14	1.75	1.61
5	M	305	U	C3'-O3'	-12.14	1.25	1.42
1	I	408	A	C3'-O3'	-12.14	1.25	1.42
2	J	145	A	C3'-O3'	-12.14	1.25	1.42
5	M	416	U	C3'-O3'	-12.14	1.25	1.42
4	L	572	U	C3'-O3'	-12.14	1.25	1.42
3	K	224	A	C3'-O3'	-12.14	1.25	1.42
6	N	348	U	C3'-O3'	-12.14	1.25	1.42
1	I	248	A	C3'-O3'	-12.13	1.25	1.42
2	J	101	A	C3'-O3'	-12.13	1.25	1.42
5	M	438	U	C3'-O3'	-12.13	1.25	1.42
3	K	207	A	C3'-O3'	-12.13	1.25	1.42
1	I	354	A	C3'-O3'	-12.13	1.25	1.42
4	L	508	U	C3'-O3'	-12.13	1.25	1.42
5	M	294	U	C3'-O3'	-12.13	1.25	1.42
2	J	266	A	C3'-O3'	-12.13	1.25	1.42
3	K	251	A	C3'-O3'	-12.13	1.25	1.42
1	I	356	A	C3'-O3'	-12.13	1.25	1.42
1	I	381	A	C3'-O3'	-12.13	1.25	1.42
3	K	257	A	C3'-O3'	-12.12	1.25	1.42
5	M	421	U	C3'-O3'	-12.12	1.25	1.42
6	N	406	U	O3'-P	-12.12	1.46	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	293	A	C3'-O3'	-12.12	1.25	1.42
3	K	246	A	C3'-O3'	-12.12	1.25	1.42
2	J	211	A	C3'-O3'	-12.12	1.25	1.42
2	J	255	A	C3'-O3'	-12.12	1.25	1.42
5	M	383	U	C3'-O3'	-12.11	1.25	1.42
5	M	349	U	C3'-O3'	-12.11	1.25	1.42
1	I	389	A	C3'-O3'	-12.11	1.25	1.42
2	J	178	A	C3'-O3'	-12.11	1.25	1.42
4	L	492	U	C3'-O3'	-12.11	1.25	1.42
4	L	421	U	C3'-O3'	-12.10	1.25	1.42
2	J	233	A	C3'-O3'	-12.10	1.25	1.42
1	I	285	A	C3'-O3'	-12.10	1.25	1.42
1	I	364	A	C3'-O3'	-12.10	1.25	1.42
6	N	268	U	C3'-O3'	-12.10	1.25	1.42
1	I	310	A	C3'-O3'	-12.09	1.25	1.42
2	J	200	A	C3'-O3'	-12.09	1.25	1.42
2	J	167	A	C3'-O3'	-12.09	1.25	1.42
4	L	453	U	C3'-O3'	-12.08	1.25	1.42
5	M	394	U	C3'-O3'	-12.08	1.25	1.42
1	I	230	A	C3'-O3'	-12.08	1.25	1.42
1	I	332	A	C3'-O3'	-12.07	1.25	1.42
2	J	244	A	C3'-O3'	-12.07	1.25	1.42
4	L	470	U	O3'-P	12.07	1.75	1.61
1	I	398	A	C3'-O3'	-12.07	1.25	1.42
4	L	539	U	C3'-O3'	-12.07	1.25	1.42
5	M	295	U	C3'-O3'	-12.07	1.25	1.42
1	I	375	A	C3'-O3'	-12.06	1.25	1.42
4	L	519	U	C3'-O3'	-12.06	1.25	1.42
1	I	387	A	C3'-O3'	-12.06	1.25	1.42
2	J	189	A	C3'-O3'	-12.06	1.25	1.42
1	I	263	A	C3'-O3'	-12.05	1.25	1.42
5	M	284	U	C3'-O3'	-12.05	1.25	1.42
1	I	342	A	C3'-O3'	-12.05	1.25	1.42
5	M	372	U	C3'-O3'	-12.05	1.25	1.42
1	I	365	A	C3'-O3'	-12.04	1.25	1.42
4	L	431	U	C3'-O3'	-12.04	1.25	1.42
5	M	339	U	C3'-O3'	-12.04	1.25	1.42
1	I	289	A	C3'-O3'	-12.03	1.25	1.42
1	I	343	A	C3'-O3'	-12.03	1.25	1.42
5	M	507	U	O3'-P	-12.04	1.46	1.61
6	N	500	U	O3'-P	12.03	1.75	1.61
1	I	409	A	C3'-O3'	-12.03	1.25	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	298	A	C3'-O3'	-12.03	1.25	1.42
2	J	222	A	C3'-O3'	-12.03	1.25	1.42
1	I	376	A	C3'-O3'	-12.01	1.25	1.42
5	M	328	U	C3'-O3'	-12.01	1.25	1.42
3	K	141	A	O3'-P	12.00	1.75	1.61
1	I	189	A	O3'-P	-12.00	1.46	1.61
1	I	386	A	C3'-O3'	-12.00	1.25	1.42
2	J	207	A	O3'-P	-11.99	1.46	1.61
4	L	549	U	O3'-P	-11.99	1.46	1.61
5	M	317	U	C3'-O3'	-11.99	1.25	1.42
5	M	361	U	C3'-O3'	-11.99	1.25	1.42
5	M	306	U	C3'-O3'	-11.99	1.25	1.42
1	I	307	A	O3'-P	-11.98	1.46	1.61
3	K	73	A	O3'-P	11.97	1.75	1.61
1	I	241	A	C3'-O3'	-11.96	1.25	1.42
4	L	530	U	C3'-O3'	-11.95	1.25	1.42
2	J	54	A	O3'-P	-11.95	1.46	1.61
1	I	268	A	O3'-P	-11.94	1.46	1.61
1	I	309	A	C3'-O3'	-11.93	1.25	1.42
1	I	297	A	O3'-P	11.92	1.75	1.61
6	N	417	U	O3'-P	-11.91	1.46	1.61
5	M	350	U	C3'-O3'	-11.90	1.25	1.42
3	K	30	A	O3'-P	11.88	1.75	1.61
1	I	174	A	O3'-P	-11.86	1.47	1.61
3	K	247	A	O3'-P	11.84	1.75	1.61
3	K	7	A	O3'-P	11.82	1.75	1.61
4	L	802	U	O3'-P	-11.81	1.47	1.61
4	L	475	U	O3'-P	11.79	1.75	1.61
6	N	334	U	O3'-P	11.79	1.75	1.61
2	J	261	A	O3'-P	11.78	1.75	1.61
4	L	420	U	O3'-P	11.78	1.75	1.61
4	L	790	U	O3'-P	11.78	1.75	1.61
6	N	401	U	O3'-P	-11.76	1.47	1.61
2	J	61	A	O3'-P	11.70	1.75	1.61
6	N	415	U	O3'-P	11.70	1.75	1.61
6	N	382	U	O3'-P	11.69	1.75	1.61
1	I	184	A	O3'-P	-11.69	1.47	1.61
4	L	734	U	O3'-P	-11.69	1.47	1.61
5	M	425	U	O3'-P	11.67	1.75	1.61
4	L	484	U	O3'-P	-11.67	1.47	1.61
2	J	35	A	O3'-P	-11.66	1.47	1.61
5	M	480	U	O3'-P	11.66	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	26	A	O3'-P	-11.66	1.47	1.61
2	J	195	A	O3'-P	11.65	1.75	1.61
2	J	213	A	O3'-P	11.65	1.75	1.61
1	I	126	A	O3'-P	11.62	1.75	1.61
3	K	83	A	O3'-P	-11.61	1.47	1.61
6	N	475	U	O3'-P	-11.59	1.47	1.61
4	L	772	U	O3'-P	-11.57	1.47	1.61
3	K	210	A	O3'-P	11.57	1.75	1.61
1	I	396	A	O3'-P	11.55	1.75	1.61
6	N	356	U	O3'-P	11.54	1.75	1.61
2	J	249	A	O3'-P	-11.53	1.47	1.61
5	M	286	U	O3'-P	-11.52	1.47	1.61
5	M	528	U	O3'-P	-11.52	1.47	1.61
4	L	637	U	O3'-P	-11.49	1.47	1.61
5	M	539	U	O3'-P	-11.48	1.47	1.61
4	L	511	U	O3'-P	11.48	1.75	1.61
4	L	532	U	O3'-P	11.46	1.75	1.61
3	K	106	A	O3'-P	-11.46	1.47	1.61
1	I	8	A	O3'-P	-11.46	1.47	1.61
5	M	407	U	O3'-P	11.45	1.74	1.61
5	M	508	U	O3'-P	-11.45	1.47	1.61
6	N	413	U	O3'-P	-11.45	1.47	1.61
2	J	133	A	O3'-P	11.44	1.74	1.61
1	I	263	A	O3'-P	-11.42	1.47	1.61
4	L	782	U	O3'-P	-11.41	1.47	1.61
6	N	493	U	O3'-P	-11.40	1.47	1.61
6	N	477	U	O3'-P	11.39	1.74	1.61
4	L	463	U	O3'-P	11.37	1.74	1.61
2	J	238	A	O3'-P	11.37	1.74	1.61
6	N	284	U	O3'-P	11.32	1.74	1.61
4	L	653	U	O3'-P	11.31	1.74	1.61
3	K	43	A	O3'-P	11.29	1.74	1.61
5	M	370	U	O3'-P	-11.28	1.47	1.61
3	K	102	A	O3'-P	-11.27	1.47	1.61
2	J	69	A	O3'-P	11.25	1.74	1.61
4	L	434	U	O3'-P	11.24	1.74	1.61
6	N	375	U	O3'-P	-11.19	1.47	1.61
4	L	461	U	O3'-P	-11.19	1.47	1.61
5	M	516	U	O3'-P	-11.19	1.47	1.61
3	K	4	A	O3'-P	11.18	1.74	1.61
3	K	245	A	O3'-P	11.16	1.74	1.61
1	I	77	A	O3'-P	-11.14	1.47	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	128	A	O3'-P	-11.14	1.47	1.61
3	K	37	A	O3'-P	-11.12	1.47	1.61
6	N	478	U	O3'-P	11.11	1.74	1.61
4	L	699	U	O3'-P	11.10	1.74	1.61
4	L	640	U	O3'-P	11.10	1.74	1.61
4	L	515	U	O3'-P	-11.07	1.47	1.61
1	I	341	A	O3'-P	-11.01	1.48	1.61
5	M	481	U	O3'-P	-11.01	1.48	1.61
5	M	372	U	O3'-P	-11.00	1.48	1.61
4	L	566	U	O3'-P	-10.98	1.48	1.61
1	I	68	A	O3'-P	-10.97	1.48	1.61
3	K	239	A	O3'-P	-10.89	1.48	1.61
6	N	428	U	O3'-P	-10.89	1.48	1.61
6	N	488	U	O3'-P	10.87	1.74	1.61
4	L	621	U	O3'-P	-10.86	1.48	1.61
5	M	540	U	O3'-P	-10.86	1.48	1.61
5	M	367	U	O3'-P	-10.84	1.48	1.61
1	I	94	A	O3'-P	10.81	1.74	1.61
6	N	309	U	O3'-P	10.81	1.74	1.61
4	L	754	U	O3'-P	-10.79	1.48	1.61
1	I	246	A	O3'-P	-10.76	1.48	1.61
5	M	457	U	O3'-P	-10.73	1.48	1.61
2	J	194	A	O3'-P	10.70	1.74	1.61
4	L	553	U	O3'-P	-10.69	1.48	1.61
4	L	801	U	O3'-P	-10.68	1.48	1.61
4	L	636	U	O3'-P	-10.68	1.48	1.61
6	N	392	U	O3'-P	10.67	1.74	1.61
1	I	265	A	O3'-P	-10.66	1.48	1.61
5	M	476	U	O3'-P	-10.66	1.48	1.61
3	K	182	A	O3'-P	-10.65	1.48	1.61
5	M	335	U	O3'-P	10.63	1.74	1.61
5	M	418	U	O3'-P	10.63	1.74	1.61
5	M	421	U	O3'-P	10.61	1.73	1.61
1	I	198	A	O3'-P	10.61	1.73	1.61
3	K	156	A	O3'-P	10.51	1.73	1.61
3	K	147	A	O3'-P	10.50	1.73	1.61
4	L	512	U	O3'-P	-10.50	1.48	1.61
5	M	450	U	O3'-P	-10.47	1.48	1.61
6	N	496	U	O3'-P	10.47	1.73	1.61
4	L	714	U	O3'-P	10.46	1.73	1.61
2	J	178	A	O3'-P	10.45	1.73	1.61
4	L	791	U	O3'-P	10.40	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	130	A	O3'-P	-10.39	1.48	1.61
4	L	762	U	O3'-P	-10.38	1.48	1.61
2	J	108	A	O3'-P	-10.37	1.48	1.61
3	K	8	A	O3'-P	10.35	1.73	1.61
2	J	48	A	O3'-P	-10.35	1.48	1.61
1	I	299	A	O3'-P	-10.33	1.48	1.61
3	K	257	A	O3'-P	-10.33	1.48	1.61
1	I	230	A	O3'-P	-10.29	1.48	1.61
6	N	464	U	O3'-P	10.29	1.73	1.61
1	I	213	A	O3'-P	-10.26	1.48	1.61
6	N	494	U	O3'-P	10.26	1.73	1.61
5	M	363	U	O3'-P	10.23	1.73	1.61
6	N	407	U	O3'-P	-10.21	1.48	1.61
2	J	177	A	O3'-P	-10.16	1.49	1.61
1	I	93	A	O3'-P	10.14	1.73	1.61
4	L	506	U	O3'-P	-10.13	1.49	1.61
1	I	182	A	O3'-P	10.13	1.73	1.61
2	J	182	A	O3'-P	-10.12	1.49	1.61
1	I	270	A	O3'-P	-10.11	1.49	1.61
2	J	47	A	O3'-P	10.07	1.73	1.61
1	I	87	A	O3'-P	-10.06	1.49	1.61
4	L	647	U	O3'-P	-10.06	1.49	1.61
3	K	220	A	O3'-P	10.05	1.73	1.61
6	N	358	U	O3'-P	10.05	1.73	1.61
1	I	271	A	O3'-P	10.04	1.73	1.61
1	I	162	A	O3'-P	10.03	1.73	1.61
4	L	581	U	O3'-P	-10.04	1.49	1.61
4	L	483	U	O3'-P	-10.01	1.49	1.61
1	I	242	A	O3'-P	-10.01	1.49	1.61
4	L	503	U	O3'-P	-10.00	1.49	1.61
1	I	45	A	O3'-P	-9.97	1.49	1.61
1	I	407	A	O3'-P	9.97	1.73	1.61
5	M	328	U	O3'-P	9.97	1.73	1.61
6	N	363	U	O3'-P	-9.96	1.49	1.61
1	I	76	A	O3'-P	-9.94	1.49	1.61
3	K	168	A	O3'-P	9.94	1.73	1.61
1	I	195	A	O3'-P	9.92	1.73	1.61
4	L	652	U	O3'-P	9.91	1.73	1.61
3	K	109	A	O3'-P	9.88	1.73	1.61
5	M	392	U	O3'-P	-9.87	1.49	1.61
2	J	17	A	O3'-P	-9.86	1.49	1.61
3	K	166	A	O3'-P	-9.81	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	550	U	O3'-P	-9.77	1.49	1.61
5	M	348	U	O3'-P	-9.77	1.49	1.61
4	L	753	U	O3'-P	-9.77	1.49	1.61
5	M	530	U	O3'-P	9.76	1.72	1.61
5	M	306	U	O3'-P	-9.70	1.49	1.61
6	N	506	U	O3'-P	9.68	1.72	1.61
6	N	425	U	O3'-P	-9.63	1.49	1.61
5	M	435	U	O3'-P	9.62	1.72	1.61
5	M	486	U	O3'-P	-9.59	1.49	1.61
5	M	506	U	O3'-P	9.59	1.72	1.61
6	N	372	U	O3'-P	9.59	1.72	1.61
3	K	96	A	O3'-P	-9.56	1.49	1.61
2	J	99	A	O3'-P	-9.54	1.49	1.61
4	L	703	U	O3'-P	-9.54	1.49	1.61
5	M	377	U	O3'-P	-9.52	1.49	1.61
4	L	777	U	O3'-P	-9.52	1.49	1.61
1	I	372	A	O3'-P	9.50	1.72	1.61
5	M	341	U	O3'-P	9.49	1.72	1.61
6	N	423	U	O3'-P	-9.48	1.49	1.61
3	K	138	A	O3'-P	9.46	1.72	1.61
4	L	691	U	O3'-P	-9.45	1.49	1.61
4	L	474	U	O3'-P	9.43	1.72	1.61
2	J	216	A	O3'-P	9.41	1.72	1.61
1	I	115	A	O3'-P	-9.40	1.49	1.61
4	L	701	U	O3'-P	-9.39	1.49	1.61
3	K	201	A	O3'-P	9.32	1.72	1.61
2	J	20	A	O3'-P	9.30	1.72	1.61
3	K	118	A	O3'-P	-9.30	1.50	1.61
5	M	511	U	O3'-P	-9.29	1.50	1.61
2	J	237	A	O3'-P	9.27	1.72	1.61
5	M	339	U	O3'-P	9.27	1.72	1.61
5	M	499	U	O3'-P	-9.26	1.50	1.61
5	M	289	U	O3'-P	-9.25	1.50	1.61
1	I	19	A	O3'-P	-9.25	1.50	1.61
3	K	157	A	O3'-P	9.23	1.72	1.61
5	M	449	U	O3'-P	-9.22	1.50	1.61
3	K	172	A	O3'-P	9.22	1.72	1.61
2	J	110	A	O3'-P	9.21	1.72	1.61
1	I	207	A	O3'-P	-9.16	1.50	1.61
1	I	360	A	O3'-P	9.14	1.72	1.61
5	M	532	U	O3'-P	9.14	1.72	1.61
1	I	336	A	O3'-P	9.14	1.72	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	410	A	O3'-P	9.10	1.72	1.61
1	I	89	A	O3'-P	-9.08	1.50	1.61
2	J	118	A	O3'-P	-9.07	1.50	1.61
1	I	159	A	O3'-P	-9.06	1.50	1.61
1	I	247	A	O3'-P	-9.06	1.50	1.61
2	J	15	A	O3'-P	9.03	1.72	1.61
1	I	287	A	O3'-P	9.02	1.72	1.61
2	J	30	A	O3'-P	-9.02	1.50	1.61
1	I	194	A	O3'-P	-9.01	1.50	1.61
4	L	727	U	O3'-P	8.99	1.72	1.61
1	I	137	A	O3'-P	8.99	1.72	1.61
2	J	89	A	O3'-P	-8.98	1.50	1.61
6	N	394	U	O3'-P	-8.96	1.50	1.61
3	K	200	A	O3'-P	8.95	1.71	1.61
4	L	437	U	O3'-P	8.93	1.71	1.61
2	J	83	A	O3'-P	-8.93	1.50	1.61
3	K	27	A	O3'-P	8.93	1.71	1.61
5	M	331	U	O3'-P	-8.93	1.50	1.61
5	M	403	U	O3'-P	-8.92	1.50	1.61
4	L	803	U	O3'-P	-8.84	1.50	1.61
4	L	477	U	O3'-P	8.82	1.71	1.61
1	I	112	A	O3'-P	-8.81	1.50	1.61
6	N	527	U	O3'-P	8.74	1.71	1.61
5	M	426	U	O3'-P	8.74	1.71	1.61
4	L	520	U	O3'-P	8.74	1.71	1.61
6	N	294	U	O3'-P	-8.73	1.50	1.61
1	I	134	A	O3'-P	-8.71	1.50	1.61
2	J	121	A	O3'-P	8.70	1.71	1.61
5	M	546	U	O3'-P	-8.69	1.50	1.61
6	N	408	U	O3'-P	-8.70	1.50	1.61
3	K	129	A	O3'-P	-8.66	1.50	1.61
4	L	482	U	O3'-P	8.66	1.71	1.61
4	L	684	U	O3'-P	8.63	1.71	1.61
4	L	765	U	O3'-P	8.62	1.71	1.61
4	L	554	U	O3'-P	8.62	1.71	1.61
3	K	183	A	O3'-P	8.60	1.71	1.61
4	L	654	U	O3'-P	8.60	1.71	1.61
5	M	404	U	O3'-P	-8.60	1.50	1.61
6	N	502	U	O3'-P	8.58	1.71	1.61
6	N	273	U	O3'-P	-8.57	1.50	1.61
1	I	312	A	O3'-P	-8.56	1.50	1.61
2	J	25	A	O3'-P	-8.55	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	73	A	O3'-P	8.51	1.71	1.61
6	N	335	U	O3'-P	8.51	1.71	1.61
3	K	66	A	O3'-P	8.48	1.71	1.61
3	K	153	A	O3'-P	8.48	1.71	1.61
1	I	211	A	O3'-P	-8.48	1.50	1.61
4	L	708	U	O3'-P	8.47	1.71	1.61
2	J	124	A	O3'-P	-8.45	1.51	1.61
3	K	149	A	O3'-P	-8.44	1.51	1.61
1	I	400	A	O3'-P	8.44	1.71	1.61
1	I	234	A	O3'-P	-8.41	1.51	1.61
4	L	695	U	O3'-P	-8.39	1.51	1.61
1	I	122	A	O3'-P	-8.38	1.51	1.61
1	I	334	A	O3'-P	-8.37	1.51	1.61
1	I	156	A	O3'-P	-8.37	1.51	1.61
1	I	206	A	O3'-P	8.33	1.71	1.61
5	M	338	U	O3'-P	8.33	1.71	1.61
1	I	118	A	O3'-P	8.33	1.71	1.61
6	N	332	U	O3'-P	8.29	1.71	1.61
1	I	43	A	O3'-P	-8.29	1.51	1.61
4	L	715	U	O3'-P	8.25	1.71	1.61
5	M	498	U	O3'-P	8.24	1.71	1.61
6	N	442	U	O3'-P	-8.22	1.51	1.61
1	I	342	A	O3'-P	8.21	1.71	1.61
4	L	486	U	O3'-P	-8.20	1.51	1.61
3	K	126	A	O3'-P	-8.17	1.51	1.61
1	I	48	A	O3'-P	-8.16	1.51	1.61
3	K	144	A	O3'-P	8.16	1.71	1.61
5	M	384	U	O3'-P	8.13	1.71	1.61
4	L	618	U	O3'-P	-8.12	1.51	1.61
6	N	526	U	O3'-P	8.11	1.70	1.61
2	J	202	A	O3'-P	-8.10	1.51	1.61
2	J	231	A	O3'-P	8.09	1.70	1.61
6	N	329	U	O3'-P	8.09	1.70	1.61
6	N	370	U	O3'-P	-8.03	1.51	1.61
1	I	131	A	O3'-P	-8.03	1.51	1.61
1	I	352	A	O3'-P	-8.02	1.51	1.61
2	J	122	A	O3'-P	8.02	1.70	1.61
4	L	485	U	O3'-P	-8.02	1.51	1.61
1	I	37	A	O3'-P	8.01	1.70	1.61
4	L	697	U	O3'-P	7.99	1.70	1.61
4	L	613	U	O3'-P	-7.96	1.51	1.61
4	L	603	U	O3'-P	-7.95	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	1	A	O3'-P	7.95	1.70	1.61
3	K	72	A	O3'-P	-7.95	1.51	1.61
2	J	165	A	O3'-P	7.94	1.70	1.61
1	I	34	A	O3'-P	7.94	1.70	1.61
1	I	401	A	O3'-P	7.93	1.70	1.61
5	M	332	U	O3'-P	-7.93	1.51	1.61
3	K	229	A	O3'-P	7.92	1.70	1.61
4	L	519	U	O3'-P	-7.91	1.51	1.61
4	L	567	U	O3'-P	-7.91	1.51	1.61
6	N	433	U	O3'-P	-7.86	1.51	1.61
1	I	119	A	O3'-P	-7.86	1.51	1.61
4	L	568	U	O3'-P	-7.86	1.51	1.61
2	J	246	A	O3'-P	-7.85	1.51	1.61
5	M	316	U	O3'-P	-7.84	1.51	1.61
4	L	530	U	O3'-P	7.84	1.70	1.61
3	K	238	A	O3'-P	7.81	1.70	1.61
2	J	224	A	O3'-P	-7.81	1.51	1.61
4	L	424	U	O3'-P	7.80	1.70	1.61
4	L	796	U	O3'-P	7.80	1.70	1.61
4	L	748	U	O3'-P	-7.80	1.51	1.61
3	K	255	A	O3'-P	7.79	1.70	1.61
1	I	125	A	O3'-P	7.78	1.70	1.61
1	I	188	A	O3'-P	-7.76	1.51	1.61
2	J	82	A	O3'-P	-7.76	1.51	1.61
5	M	376	U	O3'-P	-7.73	1.51	1.61
4	L	421	U	O3'-P	7.71	1.70	1.61
4	L	750	U	O3'-P	-7.70	1.51	1.61
4	L	570	U	O3'-P	7.68	1.70	1.61
5	M	467	U	O3'-P	7.68	1.70	1.61
4	L	689	U	O3'-P	-7.67	1.51	1.61
1	I	243	A	O3'-P	-7.67	1.51	1.61
5	M	542	U	O3'-P	7.66	1.70	1.61
2	J	132	A	O3'-P	7.66	1.70	1.61
3	K	142	A	O3'-P	7.65	1.70	1.61
4	L	466	U	O3'-P	-7.64	1.51	1.61
1	I	358	A	O3'-P	7.63	1.70	1.61
6	N	336	U	O3'-P	7.63	1.70	1.61
1	I	6	A	O3'-P	7.62	1.70	1.61
4	L	418	U	O3'-P	7.61	1.70	1.61
4	L	674	U	O3'-P	7.61	1.70	1.61
5	M	290	U	O3'-P	-7.60	1.52	1.61
5	M	326	U	O3'-P	-7.59	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	379	U	O3'-P	-7.58	1.52	1.61
2	J	6	A	O3'-P	7.58	1.70	1.61
5	M	362	U	O3'-P	7.58	1.70	1.61
2	J	172	A	O3'-P	-7.57	1.52	1.61
1	I	151	A	O3'-P	7.55	1.70	1.61
1	I	317	A	O3'-P	-7.54	1.52	1.61
2	J	12	A	O3'-P	-7.50	1.52	1.61
1	I	88	A	O3'-P	7.50	1.70	1.61
1	I	108	A	O3'-P	-7.50	1.52	1.61
1	I	357	A	O3'-P	7.50	1.70	1.61
2	J	80	A	O3'-P	-7.49	1.52	1.61
3	K	59	A	O3'-P	7.48	1.70	1.61
1	I	313	A	O3'-P	-7.47	1.52	1.61
6	N	470	U	O3'-P	7.47	1.70	1.61
1	I	369	A	O3'-P	7.47	1.70	1.61
1	I	314	A	O3'-P	-7.47	1.52	1.61
6	N	501	U	O3'-P	7.46	1.70	1.61
4	L	546	U	O3'-P	-7.44	1.52	1.61
4	L	631	U	O3'-P	7.41	1.70	1.61
4	L	764	U	O3'-P	7.40	1.70	1.61
6	N	311	U	O3'-P	7.40	1.70	1.61
4	L	611	U	O3'-P	-7.39	1.52	1.61
5	M	382	U	O3'-P	7.39	1.70	1.61
3	K	78	A	O3'-P	7.39	1.70	1.61
4	L	661	U	O3'-P	7.37	1.70	1.61
6	N	296	U	O3'-P	7.36	1.70	1.61
4	L	820	U	O3'-P	7.36	1.70	1.61
1	I	388	A	O3'-P	7.34	1.70	1.61
6	N	359	U	O3'-P	7.34	1.70	1.61
2	J	192	A	O3'-P	-7.32	1.52	1.61
1	I	279	A	O3'-P	7.31	1.70	1.61
3	K	92	A	O3'-P	-7.31	1.52	1.61
6	N	292	U	O3'-P	7.30	1.70	1.61
4	L	558	U	O3'-P	-7.27	1.52	1.61
2	J	53	A	O3'-P	-7.26	1.52	1.61
1	I	192	A	O3'-P	7.25	1.69	1.61
2	J	79	A	O3'-P	-7.25	1.52	1.61
4	L	688	U	O3'-P	-7.25	1.52	1.61
1	I	120	A	O3'-P	-7.24	1.52	1.61
2	J	5	A	O3'-P	7.20	1.69	1.61
2	J	104	A	O3'-P	-7.19	1.52	1.61
1	I	304	A	O3'-P	7.18	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	38	A	O3'-P	-7.18	1.52	1.61
1	I	36	A	O3'-P	7.17	1.69	1.61
6	N	348	U	O3'-P	-7.17	1.52	1.61
4	L	789	U	O3'-P	7.16	1.69	1.61
2	J	18	A	O3'-P	-7.16	1.52	1.61
4	L	766	U	O3'-P	7.15	1.69	1.61
3	K	112	A	O3'-P	7.15	1.69	1.61
3	K	187	A	O3'-P	7.15	1.69	1.61
5	M	535	U	O3'-P	-7.14	1.52	1.61
3	K	198	A	O3'-P	7.10	1.69	1.61
4	L	528	U	O3'-P	-7.10	1.52	1.61
4	L	719	U	O3'-P	-7.10	1.52	1.61
2	J	263	A	O3'-P	-7.10	1.52	1.61
2	J	179	A	O3'-P	7.07	1.69	1.61
4	L	671	U	O3'-P	-7.07	1.52	1.61
5	M	544	U	O3'-P	7.05	1.69	1.61
2	J	130	A	O3'-P	-7.05	1.52	1.61
4	L	478	U	O3'-P	7.04	1.69	1.61
4	L	817	U	O3'-P	7.04	1.69	1.61
5	M	422	U	O3'-P	7.02	1.69	1.61
5	M	433	U	O3'-P	-7.01	1.52	1.61
2	J	223	A	O3'-P	6.98	1.69	1.61
1	I	363	A	O3'-P	-6.97	1.52	1.61
4	L	642	U	O3'-P	-6.97	1.52	1.61
4	L	821	U	O3'-P	6.97	1.69	1.61
3	K	207	A	O3'-P	-6.96	1.52	1.61
1	I	50	A	O3'-P	6.95	1.69	1.61
4	L	578	U	O3'-P	-6.95	1.52	1.61
4	L	467	U	O3'-P	-6.94	1.52	1.61
4	L	694	U	O3'-P	-6.93	1.52	1.61
1	I	321	A	O3'-P	-6.93	1.52	1.61
4	L	797	U	O3'-P	-6.92	1.52	1.61
6	N	380	U	O3'-P	-6.89	1.52	1.61
4	L	759	U	O3'-P	6.88	1.69	1.61
1	I	266	A	O3'-P	6.88	1.69	1.61
5	M	438	U	O3'-P	6.88	1.69	1.61
4	L	538	U	O3'-P	6.83	1.69	1.61
4	L	681	U	O3'-P	6.83	1.69	1.61
3	K	3	A	O3'-P	6.83	1.69	1.61
5	M	396	U	O3'-P	-6.82	1.52	1.61
4	L	450	U	O3'-P	6.81	1.69	1.61
4	L	591	U	O3'-P	-6.81	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	508	U	O3'-P	6.80	1.69	1.61
1	I	181	A	O3'-P	-6.80	1.52	1.61
4	L	596	U	O3'-P	-6.79	1.53	1.61
2	J	181	A	O3'-P	-6.78	1.53	1.61
1	I	55	A	O3'-P	-6.77	1.53	1.61
1	I	258	A	O3'-P	-6.77	1.53	1.61
4	L	660	U	O3'-P	6.76	1.69	1.61
2	J	235	A	O3'-P	-6.70	1.53	1.61
3	K	234	A	O3'-P	6.70	1.69	1.61
4	L	473	U	O3'-P	6.69	1.69	1.61
2	J	38	A	O3'-P	-6.68	1.53	1.61
6	N	297	U	O3'-P	6.65	1.69	1.61
1	I	354	A	O3'-P	6.59	1.69	1.61
3	K	119	A	O3'-P	-6.56	1.53	1.61
4	L	559	U	O3'-P	-6.55	1.53	1.61
5	M	424	U	O3'-P	-6.55	1.53	1.61
2	J	112	A	O3'-P	-6.54	1.53	1.61
6	N	430	U	O3'-P	-6.53	1.53	1.61
1	I	292	A	O3'-P	6.51	1.69	1.61
2	J	183	A	O3'-P	6.49	1.69	1.61
4	L	615	U	O3'-P	-6.49	1.53	1.61
3	K	100	A	O3'-P	-6.48	1.53	1.61
6	N	404	U	O3'-P	-6.47	1.53	1.61
3	K	108	A	O3'-P	-6.46	1.53	1.61
2	J	126	A	O3'-P	-6.45	1.53	1.61
2	J	233	A	O3'-P	6.43	1.68	1.61
4	L	758	U	O3'-P	6.43	1.68	1.61
1	I	405	A	O3'-P	-6.42	1.53	1.61
1	I	365	A	O3'-P	-6.41	1.53	1.61
1	I	340	A	O3'-P	-6.40	1.53	1.61
4	L	569	U	O3'-P	-6.39	1.53	1.61
3	K	136	A	O3'-P	-6.39	1.53	1.61
5	M	466	U	O3'-P	6.38	1.68	1.61
3	K	80	A	O3'-P	-6.37	1.53	1.61
2	J	129	A	O3'-P	-6.36	1.53	1.61
1	I	113	A	O3'-P	-6.36	1.53	1.61
2	J	102	A	O3'-P	-6.35	1.53	1.61
1	I	164	A	O3'-P	6.35	1.68	1.61
3	K	159	A	O3'-P	6.33	1.68	1.61
1	I	31	A	O3'-P	6.28	1.68	1.61
1	I	180	A	O3'-P	-6.28	1.53	1.61
4	L	417	U	O3'-P	6.26	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	56	A	O3'-P	-6.25	1.53	1.61
5	M	374	U	O3'-P	6.25	1.68	1.61
5	M	302	U	O3'-P	6.25	1.68	1.61
6	N	444	U	O3'-P	6.23	1.68	1.61
4	L	776	U	O3'-P	-6.22	1.53	1.61
6	N	490	U	O3'-P	-6.22	1.53	1.61
2	J	256	A	O3'-P	6.22	1.68	1.61
4	L	666	U	O3'-P	-6.21	1.53	1.61
3	K	71	A	O3'-P	6.21	1.68	1.61
5	M	514	U	O3'-P	-6.21	1.53	1.61
5	M	323	U	O3'-P	-6.20	1.53	1.61
5	M	483	U	O3'-P	-6.20	1.53	1.61
4	L	533	U	O3'-P	-6.20	1.53	1.61
5	M	333	U	O3'-P	-6.18	1.53	1.61
1	I	59	A	O3'-P	-6.18	1.53	1.61
6	N	503	U	O3'-P	6.18	1.68	1.61
1	I	332	A	O3'-P	-6.18	1.53	1.61
1	I	361	A	O3'-P	6.16	1.68	1.61
4	L	500	U	O3'-P	-6.15	1.53	1.61
2	J	220	A	O3'-P	-6.14	1.53	1.61
5	M	327	U	O3'-P	6.13	1.68	1.61
3	K	221	A	O3'-P	6.10	1.68	1.61
1	I	296	A	O3'-P	-6.10	1.53	1.61
2	J	74	A	O3'-P	-6.09	1.53	1.61
3	K	85	A	O3'-P	6.05	1.68	1.61
1	I	124	A	O3'-P	-6.05	1.53	1.61
1	I	393	A	O3'-P	6.05	1.68	1.61
1	I	256	A	O3'-P	-6.05	1.53	1.61
1	I	51	A	O3'-P	6.04	1.68	1.61
1	I	330	A	O3'-P	6.03	1.68	1.61
3	K	123	A	O3'-P	-6.03	1.53	1.61
4	L	760	U	O3'-P	-6.01	1.53	1.61
4	L	616	U	O3'-P	-5.99	1.53	1.61
1	I	193	A	O3'-P	5.99	1.68	1.61
4	L	736	U	O3'-P	5.98	1.68	1.61
6	N	418	U	O3'-P	5.98	1.68	1.61
4	L	658	U	O3'-P	5.97	1.68	1.61
1	I	154	A	O3'-P	5.97	1.68	1.61
2	J	215	A	O3'-P	-5.97	1.53	1.61
5	M	497	U	O3'-P	-5.96	1.53	1.61
1	I	282	A	O3'-P	5.96	1.68	1.61
3	K	222	A	O3'-P	5.95	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	365	U	O3'-P	-5.94	1.54	1.61
6	N	495	U	O3'-P	5.94	1.68	1.61
2	J	258	A	O3'-P	5.94	1.68	1.61
1	I	136	A	O3'-P	-5.93	1.54	1.61
4	L	686	U	O3'-P	5.93	1.68	1.61
4	L	464	U	O3'-P	5.93	1.68	1.61
4	L	425	U	O3'-P	5.93	1.68	1.61
4	L	815	U	O3'-P	-5.92	1.54	1.61
2	J	180	A	O3'-P	5.91	1.68	1.61
4	L	608	U	O3'-P	5.89	1.68	1.61
1	I	370	A	O3'-P	5.88	1.68	1.61
4	L	735	U	O3'-P	-5.88	1.54	1.61
5	M	368	U	O3'-P	5.87	1.68	1.61
2	J	153	A	O3'-P	-5.87	1.54	1.61
4	L	540	U	O3'-P	5.87	1.68	1.61
4	L	505	U	O3'-P	5.85	1.68	1.61
2	J	57	A	O3'-P	-5.83	1.54	1.61
2	J	51	A	O3'-P	-5.82	1.54	1.61
3	K	87	A	O3'-P	-5.82	1.54	1.61
2	J	76	A	O3'-P	-5.82	1.54	1.61
6	N	443	U	O3'-P	-5.81	1.54	1.61
5	M	471	U	O3'-P	5.80	1.68	1.61
2	J	23	A	O3'-P	5.78	1.68	1.61
4	L	415	U	O3'-P	5.78	1.68	1.61
1	I	402	A	O3'-P	5.77	1.68	1.61
5	M	293	U	O3'-P	-5.76	1.54	1.61
1	I	285	A	O3'-P	-5.76	1.54	1.61
6	N	306	U	O3'-P	5.76	1.68	1.61
6	N	416	U	O3'-P	5.74	1.68	1.61
1	I	152	A	O3'-P	-5.68	1.54	1.61
4	L	704	U	O3'-P	-5.66	1.54	1.61
5	M	473	U	O3'-P	-5.65	1.54	1.61
5	M	432	U	O3'-P	-5.64	1.54	1.61
6	N	420	U	O3'-P	-5.64	1.54	1.61
4	L	668	U	O3'-P	-5.62	1.54	1.61
2	J	60	A	O3'-P	5.61	1.67	1.61
2	J	226	A	O3'-P	5.59	1.67	1.61
1	I	144	A	O3'-P	5.58	1.67	1.61
1	I	78	A	O3'-P	-5.58	1.54	1.61
1	I	23	A	O3'-P	-5.57	1.54	1.61
3	K	230	A	O3'-P	5.52	1.67	1.61
5	M	303	U	O3'-P	-5.50	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	375	U	O3'-P	-5.50	1.54	1.61
1	I	377	A	O3'-P	5.49	1.67	1.61
2	J	42	A	O3'-P	-5.49	1.54	1.61
5	M	465	U	O3'-P	-5.49	1.54	1.61
5	M	489	U	O3'-P	5.49	1.67	1.61
4	L	787	U	O3'-P	5.48	1.67	1.61
5	M	437	U	O3'-P	5.48	1.67	1.61
2	J	221	A	O3'-P	-5.47	1.54	1.61
5	M	285	U	O3'-P	-5.47	1.54	1.61
5	M	522	U	O3'-P	-5.47	1.54	1.61
5	M	451	U	O3'-P	-5.46	1.54	1.61
3	K	110	A	O3'-P	5.44	1.67	1.61
6	N	293	U	O3'-P	5.44	1.67	1.61
5	M	512	U	O3'-P	-5.44	1.54	1.61
1	I	168	A	O3'-P	5.43	1.67	1.61
3	K	98	A	O3'-P	5.41	1.67	1.61
1	I	323	A	O3'-P	-5.39	1.54	1.61
5	M	427	U	O3'-P	-5.39	1.54	1.61
1	I	316	A	O3'-P	5.39	1.67	1.61
6	N	377	U	O3'-P	5.39	1.67	1.61
5	M	440	U	O3'-P	5.37	1.67	1.61
1	I	335	A	O3'-P	5.37	1.67	1.61
5	M	402	U	O3'-P	-5.36	1.54	1.61
1	I	387	A	O3'-P	5.35	1.67	1.61
4	L	490	U	O3'-P	-5.35	1.54	1.61
6	N	467	U	O3'-P	5.34	1.67	1.61
6	N	310	U	O3'-P	-5.34	1.54	1.61
6	N	355	U	O3'-P	5.31	1.67	1.61
4	L	574	U	O3'-P	-5.30	1.54	1.61
1	I	209	A	O3'-P	-5.30	1.54	1.61
1	I	339	A	O3'-P	-5.30	1.54	1.61
6	N	276	U	O3'-P	5.29	1.67	1.61
2	J	109	A	O3'-P	5.28	1.67	1.61
2	J	9	A	O3'-P	-5.28	1.54	1.61
3	K	214	A	O3'-P	5.26	1.67	1.61
6	N	468	U	O3'-P	5.26	1.67	1.61
2	J	136	A	O3'-P	5.25	1.67	1.61
1	I	44	A	O3'-P	5.24	1.67	1.61
5	M	423	U	O3'-P	-5.22	1.54	1.61
5	M	383	U	O3'-P	5.21	1.67	1.61
1	I	133	A	O3'-P	-5.20	1.54	1.61
3	K	235	A	O3'-P	5.20	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	493	U	O3'-P	5.19	1.67	1.61
1	I	17	A	O3'-P	-5.18	1.54	1.61
1	I	403	A	O3'-P	5.18	1.67	1.61
1	I	161	A	O3'-P	5.17	1.67	1.61
1	I	298	A	O3'-P	5.16	1.67	1.61
1	I	191	A	O3'-P	-5.15	1.54	1.61
2	J	34	A	O3'-P	5.15	1.67	1.61
5	M	482	U	O3'-P	-5.14	1.54	1.61
4	L	810	U	O3'-P	-5.14	1.54	1.61
1	I	406	A	O3'-P	-5.13	1.54	1.61
3	K	162	A	O3'-P	5.12	1.67	1.61
5	M	355	U	O3'-P	-5.10	1.55	1.61
4	L	738	U	O3'-P	-5.10	1.55	1.61
4	L	630	U	O3'-P	5.06	1.67	1.61
4	L	548	U	O3'-P	-5.06	1.55	1.61
3	K	250	A	O3'-P	5.05	1.67	1.61
4	L	696	U	O3'-P	-5.05	1.55	1.61
6	N	474	U	O3'-P	-5.03	1.55	1.61
1	I	218	A	O3'-P	5.01	1.67	1.61
3	K	36	A	O3'-P	5.00	1.67	1.61

All (4644) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	722	U	OP2-P-O3'	-44.48	7.35	105.20
3	K	120	A	P-O3'-C3'	-44.33	66.50	119.70
1	I	101	A	OP2-P-O3'	-41.80	13.24	105.20
2	J	223	A	P-O3'-C3'	-41.00	70.50	119.70
2	J	92	A	OP2-P-O3'	-40.81	15.42	105.20
2	J	171	A	OP2-P-O3'	-39.62	18.04	105.20
3	K	167	A	P-O3'-C3'	-38.76	73.18	119.70
4	L	758	U	P-O3'-C3'	-38.54	73.45	119.70
1	I	95	A	OP2-P-O3'	-38.49	20.52	105.20
4	L	706	U	P-O3'-C3'	-38.49	73.52	119.70
6	N	278	U	P-O3'-C3'	-38.48	73.52	119.70
1	I	140	A	OP2-P-O3'	-37.86	21.90	105.20
5	M	337	U	P-O3'-C3'	-37.26	74.99	119.70
1	I	4	A	OP2-P-O3'	-37.25	23.25	105.20
4	L	728	U	OP2-P-O3'	-36.75	24.35	105.20
2	J	145	A	P-O3'-C3'	-36.33	76.10	119.70
1	I	134	A	OP2-P-O3'	-36.10	25.78	105.20
3	K	155	A	P-O3'-C3'	-35.80	76.74	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	143	A	OP2-P-O3'	-35.41	27.30	105.20
1	I	66	A	P-O3'-C3'	-35.40	77.22	119.70
4	L	694	U	P-O3'-C3'	-35.17	77.49	119.70
3	K	124	A	OP2-P-O3'	-35.12	27.95	105.20
1	I	68	A	P-O3'-C3'	-34.84	77.89	119.70
3	K	203	A	OP2-P-O3'	-34.79	28.65	105.20
1	I	267	A	OP2-P-O3'	-34.56	29.16	105.20
4	L	497	U	P-O3'-C3'	-34.36	78.47	119.70
4	L	531	U	P-O3'-C3'	-34.27	78.57	119.70
5	M	465	U	P-O3'-C3'	-34.11	78.77	119.70
6	N	425	U	O3'-P-O5'	-33.80	39.77	104.00
3	K	251	A	P-O3'-C3'	-33.56	79.43	119.70
1	I	232	A	P-O3'-C3'	-33.29	79.75	119.70
2	J	183	A	P-O3'-C3'	-33.26	79.79	119.70
2	J	29	A	P-O3'-C3'	-33.25	79.80	119.70
1	I	231	A	P-O3'-C3'	-33.12	79.95	119.70
4	L	767	U	OP2-P-O3'	-32.98	32.65	105.20
4	L	712	U	O3'-P-O5'	-32.94	41.42	104.00
1	I	283	A	OP2-P-O3'	-32.84	32.95	105.20
1	I	376	A	OP2-P-O3'	-32.78	33.08	105.20
4	L	712	U	P-O3'-C3'	-32.63	80.54	119.70
2	J	83	A	OP2-P-O3'	-32.45	33.82	105.20
5	M	489	U	P-O3'-C3'	-32.30	80.94	119.70
4	L	742	U	OP2-P-O3'	-32.24	34.27	105.20
4	L	532	U	P-O3'-C3'	-32.10	81.18	119.70
2	J	216	A	OP2-P-O3'	-32.10	34.58	105.20
3	K	100	A	P-O3'-C3'	-32.08	81.21	119.70
5	M	336	U	P-O3'-C3'	-31.93	81.39	119.70
4	L	554	U	OP2-P-O3'	-31.87	35.09	105.20
5	M	334	U	P-O3'-C3'	-31.80	81.54	119.70
1	I	86	A	P-O3'-C3'	-31.79	81.55	119.70
1	I	16	A	P-O3'-C3'	-31.68	81.68	119.70
4	L	765	U	P-O3'-C3'	-31.66	81.71	119.70
5	M	538	U	P-O3'-C3'	-31.60	81.78	119.70
2	J	222	A	P-O3'-C3'	-31.39	82.03	119.70
5	M	454	U	P-O3'-C3'	-31.30	82.14	119.70
2	J	43	A	P-O3'-C3'	-31.29	82.16	119.70
5	M	537	U	P-O3'-C3'	-31.27	82.17	119.70
1	I	175	A	OP2-P-O3'	-31.12	36.74	105.20
1	I	72	A	P-O3'-C3'	-31.10	82.38	119.70
3	K	164	A	P-O3'-C3'	-31.04	82.45	119.70
3	K	254	A	P-O3'-C3'	-31.02	82.47	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	342	A	P-O3'-C3'	-30.89	82.63	119.70
1	I	135	A	P-O3'-C3'	-30.77	82.78	119.70
2	J	236	A	OP2-P-O3'	-30.76	37.53	105.20
3	K	101	A	P-O3'-C3'	-30.57	83.01	119.70
1	I	65	A	P-O3'-C3'	-30.56	83.03	119.70
5	M	335	U	P-O3'-C3'	-30.48	83.12	119.70
1	I	128	A	P-O3'-C3'	-30.48	83.13	119.70
1	I	280	A	OP2-P-O3'	-30.36	38.40	105.20
6	N	460	U	OP2-P-O3'	-30.27	38.61	105.20
3	K	154	A	P-O3'-C3'	-30.23	83.42	119.70
5	M	495	U	P-O3'-C3'	-30.04	83.65	119.70
5	M	334	U	OP2-P-O3'	29.85	170.87	105.20
5	M	453	U	O3'-P-O5'	-29.83	47.33	104.00
3	K	119	A	P-O3'-C3'	-29.75	84.00	119.70
3	K	117	A	OP2-P-O3'	-29.68	39.90	105.20
4	L	764	U	P-O3'-C3'	-29.64	84.13	119.70
4	L	750	U	OP2-P-O3'	-29.63	40.01	105.20
2	J	116	A	OP2-P-O3'	-29.48	40.33	105.20
5	M	530	U	P-O3'-C3'	-29.36	84.47	119.70
4	L	472	U	OP2-P-O3'	-29.33	40.67	105.20
1	I	322	A	P-O3'-C3'	-29.24	84.61	119.70
1	I	269	A	P-O3'-C3'	-29.24	84.61	119.70
4	L	759	U	P-O3'-C3'	-29.22	84.64	119.70
1	I	162	A	P-O3'-C3'	-29.07	84.82	119.70
2	J	165	A	OP2-P-O3'	-29.07	41.25	105.20
4	L	713	U	P-O3'-C3'	-28.98	84.92	119.70
4	L	448	U	OP2-P-O3'	-28.96	41.49	105.20
4	L	811	U	O3'-P-O5'	-28.86	49.18	104.00
5	M	480	U	OP2-P-O3'	-28.67	42.14	105.20
1	I	15	A	P-O3'-C3'	-28.57	85.42	119.70
6	N	279	U	P-O3'-C3'	-28.55	85.44	119.70
4	L	811	U	P-O3'-C3'	-28.53	85.47	119.70
4	L	766	U	O3'-P-O5'	-28.47	49.91	104.00
5	M	466	U	P-O3'-C3'	-28.46	85.55	119.70
1	I	164	A	OP2-P-O3'	-28.38	42.77	105.20
3	K	89	A	OP2-P-O3'	-28.34	42.85	105.20
4	L	807	U	P-O3'-C3'	-28.34	85.70	119.70
2	J	55	A	P-O3'-C3'	-28.30	85.74	119.70
3	K	87	A	P-O3'-C3'	-28.26	85.79	119.70
5	M	469	U	OP2-P-O3'	-28.16	43.25	105.20
4	L	675	U	P-O3'-C3'	-28.08	86.00	119.70
1	I	266	A	P-O3'-C3'	-28.04	86.06	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	328	U	O3'-P-O5'	28.03	157.26	104.00
5	M	387	U	OP2-P-O3'	-27.95	43.71	105.20
4	L	530	U	P-O3'-C3'	-27.91	86.21	119.70
5	M	368	U	P-O3'-C3'	-27.89	86.23	119.70
5	M	406	U	P-O3'-C3'	-27.88	86.24	119.70
3	K	253	A	P-O3'-C3'	-27.87	86.26	119.70
3	K	105	A	O3'-P-O5'	-27.76	51.26	104.00
3	K	154	A	O3'-P-O5'	-27.74	51.29	104.00
1	I	179	A	P-O3'-C3'	-27.74	86.41	119.70
1	I	43	A	OP2-P-O3'	-27.72	44.22	105.20
4	L	713	U	O3'-P-O5'	-27.66	51.44	104.00
3	K	121	A	P-O3'-C3'	-27.57	86.62	119.70
4	L	711	U	O3'-P-O5'	-27.53	51.69	104.00
4	L	779	U	P-O3'-C3'	-27.49	86.71	119.70
2	J	186	A	P-O3'-C3'	-27.43	86.78	119.70
1	I	250	A	O3'-P-O5'	-27.40	51.94	104.00
3	K	109	A	P-O3'-C3'	-27.39	86.84	119.70
2	J	89	A	OP2-P-O3'	-27.30	45.13	105.20
4	L	699	U	P-O3'-C3'	-27.29	86.95	119.70
5	M	488	U	P-O3'-C3'	-27.26	86.99	119.70
1	I	129	A	P-O3'-C3'	-27.24	87.01	119.70
1	I	31	A	OP2-P-O3'	-27.08	45.63	105.20
1	I	137	A	P-O3'-C3'	-26.98	87.32	119.70
3	K	71	A	OP2-P-O3'	-26.96	45.88	105.20
1	I	13	A	O3'-P-O5'	-26.90	52.89	104.00
4	L	437	U	OP2-P-O3'	-26.83	46.17	105.20
5	M	319	U	P-O3'-C3'	-26.82	87.52	119.70
2	J	201	A	P-O3'-C3'	-26.79	87.56	119.70
1	I	233	A	P-O3'-C3'	-26.76	87.58	119.70
5	M	488	U	O3'-P-O5'	-26.76	53.16	104.00
4	L	724	U	P-O3'-C3'	-26.75	87.60	119.70
1	I	73	A	O3'-P-O5'	-26.73	53.22	104.00
1	I	54	A	OP2-P-O3'	-26.71	46.44	105.20
2	J	204	A	O3'-P-O5'	-26.66	53.34	104.00
5	M	386	U	OP2-P-O3'	-26.62	46.64	105.20
1	I	349	A	P-O3'-C3'	-26.61	87.77	119.70
2	J	182	A	P-O3'-C3'	-26.61	87.77	119.70
6	N	440	U	P-O3'-C3'	-26.59	87.79	119.70
5	M	319	U	OP2-P-O3'	26.58	163.67	105.20
1	I	329	A	P-O3'-C3'	-26.49	87.91	119.70
4	L	723	U	O3'-P-O5'	-26.47	53.70	104.00
1	I	282	A	OP2-P-O3'	-26.44	47.04	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	819	U	OP2-P-O3'	-26.38	47.16	105.20
5	M	531	U	P-O3'-C3'	-26.36	88.06	119.70
3	K	97	A	P-O3'-C3'	-26.33	88.11	119.70
5	M	498	U	OP2-P-O3'	-26.32	47.29	105.20
2	J	205	A	P-O3'-C3'	-26.29	88.16	119.70
5	M	444	U	OP2-P-O3'	-26.25	47.46	105.20
1	I	334	A	P-O3'-C3'	-26.22	88.23	119.70
6	N	443	U	P-O3'-C3'	-26.20	88.25	119.70
5	M	327	U	O3'-P-O5'	26.18	153.75	104.00
1	I	181	A	P-O3'-C3'	-26.10	88.38	119.70
2	J	204	A	P-O3'-C3'	-26.07	88.42	119.70
3	K	108	A	P-O3'-C3'	-26.07	88.42	119.70
5	M	547	U	OP2-P-O3'	-26.06	47.86	105.20
1	I	261	A	O3'-P-O5'	-26.02	54.56	104.00
4	L	719	U	OP2-P-O3'	-26.01	47.97	105.20
5	M	333	U	P-O3'-C3'	-25.99	88.52	119.70
4	L	642	U	P-O3'-C3'	-25.97	88.54	119.70
2	J	128	A	P-O3'-C3'	-25.91	88.61	119.70
5	M	468	U	OP2-P-O3'	-25.87	48.30	105.20
2	J	97	A	OP2-P-O3'	-25.86	48.30	105.20
5	M	350	U	P-O3'-C3'	-25.85	88.68	119.70
1	I	341	A	P-O3'-C3'	-25.78	88.77	119.70
4	L	478	U	P-O3'-C3'	-25.73	88.83	119.70
4	L	551	U	OP2-P-O3'	-25.71	48.63	105.20
4	L	638	U	P-O3'-C3'	-25.68	88.89	119.70
1	I	46	A	OP2-P-O3'	-25.65	48.76	105.20
1	I	71	A	P-O3'-C3'	-25.65	88.92	119.70
3	K	65	A	P-O3'-C3'	-25.59	89.00	119.70
2	J	210	A	P-O3'-C3'	-25.58	89.01	119.70
1	I	21	A	O3'-P-O5'	-25.57	55.43	104.00
1	I	286	A	P-O3'-C3'	-25.54	89.05	119.70
5	M	457	U	P-O3'-C3'	-25.49	89.12	119.70
2	J	12	A	P-O3'-C3'	-25.43	89.18	119.70
2	J	47	A	P-O3'-C3'	-25.43	89.19	119.70
2	J	224	A	P-O3'-C3'	-25.41	89.20	119.70
6	N	451	U	P-O3'-C3'	-25.34	89.29	119.70
2	J	43	A	OP2-P-O3'	25.34	160.95	105.20
1	I	198	A	OP2-P-O3'	-25.32	49.49	105.20
5	M	438	U	P-O3'-C3'	-25.27	89.38	119.70
1	I	67	A	P-O3'-C3'	-25.26	89.39	119.70
5	M	437	U	P-O3'-C3'	-25.24	89.41	119.70
3	K	155	A	O3'-P-O5'	-25.21	56.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	147	A	OP2-P-O3'	-25.15	49.88	105.20
1	I	259	A	P-O3'-C3'	-25.12	89.56	119.70
4	L	680	U	OP2-P-O3'	-25.09	49.99	105.20
1	I	243	A	P-O3'-C3'	-25.09	89.59	119.70
3	K	100	A	OP2-P-O3'	25.09	160.39	105.20
5	M	349	U	P-O3'-C3'	-25.08	89.60	119.70
3	K	98	A	P-O3'-C3'	-25.08	89.61	119.70
2	J	28	A	P-O3'-C3'	-25.07	89.62	119.70
5	M	454	U	O3'-P-O5'	-25.04	56.42	104.00
6	N	442	U	P-O3'-C3'	-24.99	89.71	119.70
3	K	146	A	OP2-P-O3'	-24.95	50.31	105.20
4	L	497	U	OP2-P-O3'	24.95	160.08	105.20
6	N	311	U	O3'-P-O5'	-24.91	56.67	104.00
5	M	299	U	P-O3'-C3'	-24.91	89.81	119.70
1	I	14	A	O3'-P-O5'	-24.89	56.71	104.00
2	J	205	A	OP2-P-O3'	24.87	159.91	105.20
6	N	486	U	O3'-P-O5'	-24.80	56.88	104.00
1	I	265	A	P-O3'-C3'	-24.78	89.96	119.70
1	I	26	A	P-O3'-C3'	-24.74	90.01	119.70
4	L	576	U	P-O3'-C3'	-24.70	90.06	119.70
1	I	232	A	OP2-P-O3'	24.66	159.45	105.20
5	M	519	U	P-O3'-C3'	-24.66	90.11	119.70
5	M	485	U	P-O3'-C3'	-24.65	90.12	119.70
5	M	373	U	P-O3'-C3'	-24.64	90.13	119.70
5	M	418	U	P-O3'-C3'	-24.62	90.16	119.70
1	I	13	A	P-O3'-C3'	-24.60	90.17	119.70
1	I	67	A	O3'-P-O5'	-24.57	57.32	104.00
6	N	424	U	O3'-P-O5'	-24.56	57.34	104.00
4	L	765	U	OP2-P-O3'	24.42	158.93	105.20
4	L	763	U	O3'-P-O5'	-24.39	57.67	104.00
4	L	758	U	OP2-P-O3'	24.38	158.84	105.20
6	N	473	U	O3'-P-O5'	-24.36	57.71	104.00
4	L	705	U	P-O3'-C3'	-24.35	90.48	119.70
2	J	29	A	OP2-P-O3'	24.34	158.76	105.20
4	L	812	U	P-O3'-C3'	-24.31	90.52	119.70
6	N	450	U	O3'-P-O5'	-24.31	57.81	104.00
1	I	310	A	P-O3'-C3'	-24.28	90.56	119.70
1	I	222	A	P-O3'-C3'	-24.27	90.57	119.70
1	I	79	A	P-O3'-C3'	-24.27	90.58	119.70
3	K	106	A	O3'-P-O5'	-24.26	57.90	104.00
1	I	14	A	P-O3'-C3'	-24.26	90.59	119.70
6	N	305	U	O3'-P-O5'	-24.23	57.97	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	711	U	P-O3'-C3'	-24.22	90.64	119.70
5	M	534	U	OP2-P-O3'	-24.21	51.93	105.20
3	K	99	A	P-O3'-C3'	-24.21	90.65	119.70
3	K	168	A	OP2-P-O3'	24.21	158.45	105.20
2	J	51	A	O3'-P-O5'	-24.20	58.03	104.00
4	L	517	U	P-O3'-C3'	-24.18	90.68	119.70
1	I	113	A	O3'-P-O5'	-24.14	58.13	104.00
4	L	780	U	P-O3'-C3'	-24.13	90.74	119.70
6	N	459	U	OP2-P-O3'	-24.13	52.11	105.20
2	J	56	A	P-O3'-C3'	-24.09	90.79	119.70
2	J	178	A	P-O3'-C3'	-24.04	90.85	119.70
6	N	430	U	P-O3'-C3'	-24.04	90.86	119.70
3	K	118	A	P-O3'-C3'	-24.03	90.86	119.70
5	M	336	U	OP2-P-O3'	24.02	158.05	105.20
3	K	54	A	OP2-P-O3'	-23.99	52.42	105.20
5	M	296	U	P-O3'-C3'	-23.94	90.97	119.70
1	I	74	A	O3'-P-O5'	-23.92	58.55	104.00
4	L	577	U	P-O3'-C3'	-23.89	91.03	119.70
2	J	79	A	P-O3'-C3'	-23.87	91.06	119.70
6	N	450	U	P-O3'-C3'	-23.87	91.06	119.70
1	I	305	A	P-O3'-C3'	-23.83	91.10	119.70
5	M	510	U	O3'-P-O5'	-23.80	58.77	104.00
5	M	530	U	OP2-P-O3'	23.80	157.55	105.20
5	M	489	U	OP2-P-O3'	23.79	157.54	105.20
2	J	37	A	P-O3'-C3'	-23.79	91.15	119.70
1	I	262	A	P-O3'-C3'	-23.78	91.16	119.70
5	M	504	U	P-O3'-C3'	-23.75	91.20	119.70
1	I	240	A	OP2-P-O3'	-23.63	53.21	105.20
5	M	458	U	P-O3'-C3'	-23.62	91.36	119.70
4	L	558	U	P-O3'-C3'	-23.59	91.39	119.70
2	J	48	A	P-O3'-C3'	-23.56	91.42	119.70
2	J	68	A	P-O3'-C3'	-23.56	91.43	119.70
6	N	316	U	O3'-P-O5'	-23.52	59.31	104.00
5	M	354	U	OP2-P-O3'	-23.52	53.47	105.20
4	L	755	U	P-O3'-C3'	-23.51	91.49	119.70
1	I	119	A	P-O3'-C3'	-23.50	91.50	119.70
2	J	207	A	P-O3'-C3'	-23.50	91.50	119.70
2	J	69	A	P-O3'-C3'	-23.48	91.53	119.70
5	M	323	U	OP2-P-O3'	23.48	156.85	105.20
1	I	321	A	P-O3'-C3'	-23.44	91.57	119.70
4	L	776	U	P-O3'-C3'	-23.44	91.57	119.70
5	M	329	U	O3'-P-O5'	23.44	148.53	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	747	U	P-O3'-C3'	-23.41	91.61	119.70
1	I	133	A	OP2-P-O3'	23.40	156.69	105.20
4	L	815	U	P-O3'-C3'	-23.36	91.66	119.70
3	K	102	A	O3'-P-O5'	23.36	148.38	104.00
1	I	156	A	O3'-P-O5'	-23.36	59.63	104.00
1	I	76	A	P-O3'-C3'	-23.30	91.73	119.70
4	L	521	U	P-O3'-C3'	-23.30	91.74	119.70
2	J	126	A	P-O3'-C3'	-23.29	91.75	119.70
4	L	724	U	OP2-P-O3'	23.28	156.42	105.20
1	I	186	A	O3'-P-O5'	23.27	148.21	104.00
3	K	138	A	OP2-P-O3'	-23.27	54.02	105.20
1	I	348	A	P-O3'-C3'	-23.18	91.89	119.70
1	I	82	A	P-O3'-C3'	-23.17	91.89	119.70
2	J	70	A	P-O3'-C3'	-23.17	91.90	119.70
4	L	498	U	P-O3'-C3'	-23.15	91.92	119.70
5	M	406	U	OP2-P-O3'	23.15	156.12	105.20
3	K	181	A	OP2-P-O3'	-23.13	54.31	105.20
4	L	695	U	P-O3'-C3'	-23.12	91.95	119.70
6	N	431	U	P-O3'-C3'	-23.09	92.00	119.70
1	I	258	A	P-O3'-C3'	-23.07	92.02	119.70
2	J	99	A	O3'-P-O5'	-23.05	60.21	104.00
2	J	42	A	O3'-P-O5'	-23.03	60.25	104.00
1	I	256	A	P-O3'-C3'	-23.00	92.11	119.70
4	L	685	U	OP2-P-O3'	-22.99	54.63	105.20
1	I	323	A	P-O3'-C3'	-22.98	92.12	119.70
1	I	250	A	P-O3'-C3'	-22.97	92.13	119.70
1	I	269	A	OP2-P-O3'	22.97	155.73	105.20
3	K	165	A	P-O3'-C3'	-22.94	92.17	119.70
6	N	458	U	OP2-P-O3'	-22.93	54.75	105.20
4	L	757	U	O3'-P-O5'	-22.92	60.45	104.00
1	I	77	A	P-O3'-C3'	-22.90	92.22	119.70
4	L	774	U	O3'-P-O5'	22.88	147.47	104.00
5	M	337	U	OP2-P-O3'	22.86	155.49	105.20
1	I	278	A	O3'-P-O5'	-22.85	60.59	104.00
1	I	260	A	P-O3'-C3'	-22.82	92.32	119.70
1	I	354	A	P-O3'-C3'	-22.73	92.42	119.70
5	M	339	U	P-O3'-C3'	-22.67	92.49	119.70
5	M	323	U	O3'-P-O5'	-22.66	60.95	104.00
3	K	212	A	O3'-P-O5'	-22.63	61.01	104.00
4	L	803	U	O3'-P-O5'	-22.62	61.02	104.00
4	L	516	U	P-O3'-C3'	-22.56	92.62	119.70
1	I	65	A	OP2-P-O3'	22.56	154.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	69	A	OP2-P-O3'	22.52	154.75	105.20
2	J	84	A	P-O3'-C3'	-22.52	92.67	119.70
1	I	136	A	P-O3'-C3'	-22.52	92.67	119.70
1	I	148	A	P-O3'-C3'	-22.52	92.68	119.70
2	J	89	A	O3'-P-O5'	22.49	146.72	104.00
4	L	500	U	P-O3'-C3'	-22.48	92.72	119.70
1	I	84	A	OP2-P-O3'	-22.46	55.78	105.20
3	K	168	A	P-O3'-C3'	-22.45	92.76	119.70
5	M	347	U	P-O3'-C3'	-22.45	92.76	119.70
1	I	15	A	OP2-P-O3'	22.43	154.55	105.20
6	N	421	U	P-O3'-C3'	-22.42	92.80	119.70
4	L	810	U	O3'-P-O5'	-22.41	61.41	104.00
4	L	549	U	O3'-P-O5'	-22.37	61.49	104.00
1	I	332	A	P-O3'-C3'	-22.37	92.86	119.70
2	J	44	A	P-O3'-C3'	-22.35	92.88	119.70
4	L	704	U	P-O3'-C3'	-22.34	92.89	119.70
5	M	372	U	P-O3'-C3'	-22.32	92.91	119.70
1	I	66	A	OP2-P-O3'	22.24	154.13	105.20
6	N	312	U	O3'-P-O5'	-22.22	61.79	104.00
3	K	204	A	O3'-P-O5'	-22.21	61.80	104.00
3	K	253	A	OP2-P-O3'	22.21	154.06	105.20
4	L	566	U	P-O3'-C3'	-22.18	93.09	119.70
1	I	18	A	P-O3'-C3'	-22.16	93.11	119.70
5	M	297	U	P-O3'-C3'	-22.14	93.13	119.70
1	I	69	A	P-O3'-C3'	-22.12	93.16	119.70
3	K	89	A	O3'-P-O5'	22.12	146.02	104.00
1	I	47	A	OP2-P-O3'	-22.11	56.56	105.20
2	J	219	A	P-O3'-C3'	-22.11	93.17	119.70
1	I	245	A	OP2-P-O3'	-22.07	56.66	105.20
3	K	135	A	OP2-P-O3'	-22.04	56.72	105.20
2	J	118	A	OP2-P-O3'	-22.02	56.76	105.20
1	I	245	A	O3'-P-O5'	22.01	145.82	104.00
4	L	775	U	P-O3'-C3'	-21.98	93.32	119.70
5	M	320	U	P-O3'-C3'	-21.98	93.33	119.70
3	K	192	A	O3'-P-O5'	-21.96	62.28	104.00
4	L	751	U	O3'-P-O5'	-21.95	62.30	104.00
3	K	250	A	P-O3'-C3'	-21.95	93.37	119.70
4	L	745	U	O3'-P-O5'	21.94	145.68	104.00
6	N	477	U	P-O3'-C3'	-21.90	93.42	119.70
6	N	476	U	P-O3'-C3'	-21.89	93.43	119.70
6	N	426	U	OP2-P-O3'	21.86	153.29	105.20
3	K	97	A	OP2-P-O3'	21.84	153.26	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	40	A	OP2-P-O3'	-21.83	57.17	105.20
5	M	453	U	P-O3'-C3'	-21.81	93.52	119.70
6	N	416	U	OP2-P-O3'	21.80	153.15	105.20
5	M	335	U	O3'-P-O5'	-21.79	62.60	104.00
5	M	458	U	OP2-P-O3'	21.78	153.13	105.20
5	M	501	U	O3'-P-O5'	-21.78	62.62	104.00
4	L	639	U	P-O3'-C3'	-21.74	93.61	119.70
1	I	343	A	P-O3'-C3'	-21.73	93.62	119.70
2	J	206	A	P-O3'-C3'	-21.70	93.66	119.70
6	N	277	U	P-O3'-C3'	-21.70	93.66	119.70
4	L	508	U	P-O3'-C3'	-21.69	93.67	119.70
6	N	410	U	O3'-P-O5'	21.69	145.20	104.00
6	N	440	U	OP2-P-O3'	21.68	152.91	105.20
3	K	96	A	O3'-P-O5'	-21.68	62.82	104.00
3	K	115	A	O3'-P-O5'	-21.66	62.84	104.00
2	J	258	A	P-O3'-C3'	-21.66	93.71	119.70
6	N	396	U	P-O3'-C3'	-21.61	93.77	119.70
1	I	43	A	O3'-P-O5'	21.60	145.05	104.00
6	N	497	U	OP2-P-O3'	21.59	152.70	105.20
2	J	193	A	P-O3'-C3'	-21.56	93.83	119.70
1	I	106	A	OP2-P-O3'	-21.56	57.77	105.20
2	J	6	A	O3'-P-O5'	21.55	144.95	104.00
3	K	141	A	OP2-P-O3'	-21.53	57.83	105.20
3	K	74	A	P-O3'-C3'	-21.50	93.90	119.70
5	M	511	U	P-O3'-C3'	-21.48	93.92	119.70
5	M	324	U	O3'-P-O5'	-21.47	63.21	104.00
3	K	99	A	OP2-P-O3'	21.45	152.40	105.20
1	I	286	A	O3'-P-O5'	-21.41	63.31	104.00
3	K	167	A	OP2-P-O3'	21.41	152.31	105.20
2	J	159	A	O3'-P-O5'	-21.41	63.32	104.00
1	I	83	A	P-O3'-C3'	-21.40	94.02	119.70
6	N	439	U	P-O3'-C3'	-21.39	94.03	119.70
4	L	713	U	OP2-P-O3'	21.37	152.22	105.20
6	N	280	U	P-O3'-C3'	-21.37	94.06	119.70
2	J	220	A	P-O3'-C3'	-21.35	94.08	119.70
4	L	723	U	P-O3'-C3'	-21.34	94.10	119.70
4	L	774	U	OP2-P-O3'	-21.33	58.28	105.20
4	L	689	U	O3'-P-O5'	21.31	144.49	104.00
1	I	205	A	OP2-P-O3'	-21.31	58.32	105.20
1	I	319	A	P-O3'-C3'	-21.28	94.17	119.70
1	I	174	A	P-O3'-C3'	-21.26	94.19	119.70
3	K	88	A	O3'-P-O5'	21.26	144.40	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	504	U	P-O3'-C3'	-21.17	94.29	119.70
5	M	466	U	OP2-P-O3'	21.17	151.78	105.20
4	L	707	U	P-O3'-C3'	-21.16	94.31	119.70
2	J	86	A	OP2-P-O3'	-21.15	58.67	105.20
4	L	680	U	P-O3'-C3'	21.14	145.07	119.70
2	J	62	A	P-O3'-C3'	-21.14	94.34	119.70
5	M	348	U	O3'-P-O5'	-21.08	63.94	104.00
5	M	454	U	OP2-P-O3'	21.08	151.57	105.20
4	L	729	U	OP2-P-O3'	-21.07	58.83	105.20
5	M	502	U	OP2-P-O3'	-21.07	58.84	105.20
1	I	68	A	OP2-P-O3'	21.07	151.55	105.20
6	N	485	U	O3'-P-O5'	-21.06	63.98	104.00
1	I	316	A	P-O3'-C3'	-21.06	94.43	119.70
3	K	226	A	P-O3'-C3'	21.05	144.96	119.70
2	J	129	A	P-O3'-C3'	-21.03	94.46	119.70
4	L	435	U	O3'-P-O5'	-21.01	64.08	104.00
6	N	379	U	P-O3'-C3'	-21.01	94.49	119.70
4	L	593	U	P-O3'-C3'	-21.00	94.49	119.70
4	L	549	U	P-O3'-C3'	-20.98	94.52	119.70
3	K	155	A	OP2-P-O3'	20.98	151.35	105.20
5	M	468	U	O3'-P-O5'	20.95	143.81	104.00
5	M	444	U	O3'-P-O5'	20.94	143.78	104.00
1	I	91	A	P-O3'-C3'	-20.87	94.66	119.70
4	L	505	U	P-O3'-C3'	-20.87	94.66	119.70
1	I	17	A	P-O3'-C3'	-20.85	94.68	119.70
3	K	142	A	OP2-P-O3'	-20.84	59.34	105.20
1	I	271	A	OP2-P-O3'	-20.83	59.38	105.20
6	N	389	U	OP2-P-O3'	-20.82	59.40	105.20
3	K	247	A	OP2-P-O3'	-20.81	59.41	105.20
1	I	268	A	P-O3'-C3'	-20.80	94.73	119.70
4	L	806	U	P-O3'-C3'	-20.80	94.74	119.70
3	K	120	A	OP2-P-O3'	20.80	150.96	105.20
2	J	236	A	O3'-P-O5'	20.80	143.51	104.00
5	M	484	U	P-O3'-C3'	-20.80	94.75	119.70
3	K	73	A	P-O3'-C3'	-20.79	94.75	119.70
5	M	515	U	P-O3'-C3'	-20.78	94.77	119.70
4	L	590	U	P-O3'-C3'	-20.77	94.78	119.70
1	I	329	A	O3'-P-O5'	-20.76	64.56	104.00
4	L	769	U	P-O3'-C3'	-20.76	94.79	119.70
1	I	358	A	OP2-P-O3'	-20.75	59.54	105.20
4	L	746	U	O3'-P-O5'	20.75	143.43	104.00
4	L	625	U	O3'-P-O5'	20.75	143.42	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	336	U	O3'-P-O5'	-20.73	64.61	104.00
2	J	97	A	O3'-P-O5'	20.72	143.37	104.00
4	L	760	U	P-O3'-C3'	-20.72	94.84	119.70
4	L	517	U	OP2-P-O3'	20.72	150.78	105.20
1	I	133	A	P-O3'-C3'	-20.71	94.84	119.70
2	J	93	A	P-O3'-C3'	-20.71	94.85	119.70
5	M	523	U	O3'-P-O5'	20.70	143.34	104.00
1	I	70	A	P-O3'-C3'	-20.70	94.86	119.70
1	I	257	A	P-O3'-C3'	-20.68	94.88	119.70
2	J	61	A	OP2-P-O3'	-20.68	59.70	105.20
5	M	493	U	O3'-P-O5'	20.68	143.30	104.00
2	J	63	A	P-O3'-C3'	-20.67	94.90	119.70
1	I	75	A	P-O3'-C3'	-20.66	94.90	119.70
5	M	520	U	P-O3'-C3'	-20.66	94.91	119.70
1	I	82	A	OP2-P-O3'	20.65	150.64	105.20
2	J	210	A	OP2-P-O3'	20.65	150.63	105.20
1	I	180	A	P-O3'-C3'	-20.64	94.93	119.70
3	K	88	A	P-O3'-C3'	-20.64	94.93	119.70
5	M	512	U	O3'-P-O5'	-20.62	64.82	104.00
4	L	522	U	P-O3'-C3'	-20.61	94.96	119.70
5	M	365	U	P-O3'-C3'	-20.61	94.97	119.70
1	I	87	A	P-O3'-C3'	-20.61	94.97	119.70
1	I	14	A	OP2-P-O3'	20.59	150.50	105.20
4	L	498	U	OP2-P-O3'	20.56	150.43	105.20
4	L	712	U	OP2-P-O3'	20.54	150.39	105.20
1	I	73	A	OP2-P-O3'	20.54	150.38	105.20
5	M	465	U	OP2-P-O3'	20.53	150.37	105.20
3	K	6	A	P-O3'-C3'	-20.53	95.06	119.70
4	L	549	U	OP2-P-O3'	20.53	150.36	105.20
2	J	14	A	P-O3'-C3'	-20.52	95.08	119.70
6	N	524	U	OP2-P-O3'	-20.51	60.07	105.20
3	K	135	A	O3'-P-O5'	20.50	142.94	104.00
3	K	156	A	OP2-P-O3'	20.49	150.28	105.20
6	N	293	U	O3'-P-O5'	-20.47	65.11	104.00
2	J	102	A	O3'-P-O5'	-20.46	65.13	104.00
6	N	450	U	OP2-P-O3'	20.44	150.17	105.20
5	M	347	U	OP2-P-O3'	20.44	150.16	105.20
1	I	292	A	P-O3'-C3'	-20.38	95.24	119.70
2	J	151	A	P-O3'-C3'	-20.36	95.27	119.70
1	I	351	A	OP2-P-O3'	-20.34	60.45	105.20
3	K	150	A	O3'-P-O5'	20.31	142.59	104.00
2	J	183	A	OP2-P-O3'	20.28	149.82	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	436	U	O3'-P-O5'	-20.27	65.49	104.00
1	I	64	A	P-O3'-C3'	-20.26	95.39	119.70
4	L	518	U	P-O3'-C3'	-20.24	95.41	119.70
3	K	138	A	O3'-P-O5'	20.22	142.42	104.00
5	M	531	U	OP2-P-O3'	20.22	149.69	105.20
1	I	251	A	O3'-P-O5'	-20.21	65.59	104.00
1	I	375	A	OP2-P-O3'	-20.20	60.75	105.20
5	M	467	U	P-O3'-C3'	-20.20	95.45	119.70
6	N	431	U	OP2-P-O3'	20.19	149.62	105.20
1	I	132	A	OP2-P-O3'	20.13	149.49	105.20
4	L	757	U	P-O3'-C3'	-20.13	95.55	119.70
6	N	426	U	P-O3'-C3'	-20.12	95.55	119.70
6	N	357	U	O3'-P-O5'	20.12	142.23	104.00
5	M	526	U	P-O3'-C3'	-20.11	95.56	119.70
2	J	226	A	O3'-P-O5'	20.11	142.21	104.00
6	N	489	U	OP2-P-O3'	-20.11	60.97	105.20
4	L	634	U	P-O3'-C3'	-20.10	95.58	119.70
1	I	285	A	P-O3'-C3'	-20.10	95.58	119.70
5	M	512	U	P-O3'-C3'	-20.09	95.59	119.70
4	L	759	U	OP2-P-O3'	20.08	149.38	105.20
3	K	44	A	O3'-P-O5'	-20.08	65.85	104.00
5	M	329	U	P-O3'-C3'	-20.07	95.62	119.70
1	I	54	A	O3'-P-O5'	20.04	142.08	104.00
3	K	252	A	P-O3'-C3'	-20.04	95.66	119.70
4	L	544	U	P-O3'-C3'	-20.04	95.66	119.70
4	L	604	U	P-O3'-C3'	-20.03	95.67	119.70
3	K	254	A	OP2-P-O3'	20.02	149.25	105.20
4	L	694	U	OP2-P-O3'	20.01	149.23	105.20
4	L	786	U	O3'-P-O5'	19.99	141.98	104.00
6	N	496	U	O3'-P-O5'	-19.98	66.05	104.00
1	I	70	A	OP2-P-O3'	19.97	149.12	105.20
2	J	45	A	P-O3'-C3'	-19.96	95.75	119.70
2	J	144	A	P-O3'-C3'	-19.95	95.76	119.70
4	L	477	U	OP2-P-O3'	19.94	149.06	105.20
5	M	406	U	O3'-P-O5'	-19.93	66.13	104.00
1	I	78	A	OP2-P-O3'	-19.91	61.39	105.20
1	I	19	A	P-O3'-C3'	-19.90	95.82	119.70
2	J	57	A	O3'-P-O5'	19.89	141.79	104.00
4	L	546	U	O3'-P-O5'	-19.88	66.23	104.00
4	L	776	U	OP2-P-O3'	19.86	148.90	105.20
2	J	254	A	P-O3'-C3'	-19.86	95.87	119.70
2	J	5	A	OP2-P-O3'	-19.86	61.52	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	172	A	O3'-P-O5'	19.86	141.72	104.00
4	L	689	U	P-O3'-C3'	-19.85	95.88	119.70
5	M	338	U	O3'-P-O5'	19.85	141.72	104.00
6	N	417	U	OP2-P-O3'	19.85	148.87	105.20
4	L	557	U	P-O3'-C3'	-19.82	95.91	119.70
2	J	166	A	OP2-P-O3'	-19.81	61.61	105.20
3	K	163	A	P-O3'-C3'	-19.81	95.92	119.70
1	I	228	A	P-O3'-C3'	-19.80	95.94	119.70
1	I	320	A	P-O3'-C3'	-19.80	95.94	119.70
1	I	78	A	O3'-P-O5'	19.80	141.61	104.00
2	J	184	A	P-O3'-C3'	-19.79	95.95	119.70
5	M	318	U	P-O3'-C3'	-19.78	95.96	119.70
6	N	526	U	O3'-P-O5'	-19.78	66.42	104.00
6	N	425	U	P-O3'-C3'	-19.78	95.97	119.70
6	N	446	U	OP2-P-O3'	-19.77	61.70	105.20
1	I	74	A	OP2-P-O3'	19.77	148.69	105.20
1	I	231	A	OP2-P-O3'	19.76	148.67	105.20
6	N	364	U	O3'-P-O5'	19.75	141.52	104.00
4	L	666	U	P-O3'-C3'	-19.74	96.01	119.70
1	I	82	A	O3'-P-O5'	-19.74	66.50	104.00
4	L	746	U	OP2-P-O3'	-19.72	61.81	105.20
4	L	777	U	P-O3'-C3'	-19.72	96.03	119.70
1	I	73	A	P-O3'-C3'	-19.71	96.05	119.70
2	J	85	A	O3'-P-O5'	19.71	141.46	104.00
6	N	349	U	OP2-P-O3'	-19.69	61.88	105.20
6	N	281	U	P-O3'-C3'	-19.67	96.10	119.70
4	L	810	U	P-O3'-C3'	-19.64	96.13	119.70
6	N	379	U	OP2-P-O3'	19.64	148.41	105.20
1	I	388	A	O3'-P-O5'	-19.60	66.75	104.00
2	J	11	A	OP2-P-O3'	19.59	148.31	105.20
1	I	230	A	P-O3'-C3'	-19.58	96.20	119.70
2	J	152	A	P-O3'-C3'	-19.58	96.21	119.70
3	K	157	A	P-O3'-C3'	-19.56	96.22	119.70
5	M	507	U	P-O3'-C3'	-19.55	96.24	119.70
1	I	161	A	P-O3'-C3'	-19.54	96.25	119.70
1	I	48	A	P-O3'-C3'	-19.53	96.27	119.70
4	L	638	U	OP2-P-O3'	19.52	148.13	105.20
1	I	80	A	P-O3'-C3'	-19.51	96.29	119.70
4	L	766	U	P-O3'-C3'	-19.51	96.29	119.70
5	M	511	U	O3'-P-O5'	-19.50	66.94	104.00
5	M	328	U	OP2-P-O3'	-19.50	62.30	105.20
5	M	410	U	O3'-P-O5'	-19.50	66.95	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	644	U	P-O3'-C3'	-19.49	96.31	119.70
6	N	468	U	O3'-P-O5'	19.48	141.02	104.00
3	K	246	A	OP2-P-O3'	-19.46	62.38	105.20
6	N	417	U	O3'-P-O5'	-19.46	67.03	104.00
4	L	812	U	OP2-P-O3'	19.45	148.00	105.20
4	L	583	U	P-O3'-C3'	-19.44	96.37	119.70
1	I	277	A	O3'-P-O5'	-19.43	67.07	104.00
1	I	255	A	P-O3'-C3'	-19.43	96.39	119.70
1	I	71	A	OP2-P-O3'	19.41	147.90	105.20
2	J	160	A	O3'-P-O5'	-19.41	67.12	104.00
3	K	86	A	P-O3'-C3'	-19.40	96.42	119.70
6	N	430	U	OP2-P-O3'	19.39	147.86	105.20
2	J	206	A	OP2-P-O3'	19.39	147.85	105.20
1	I	198	A	O3'-P-O5'	19.38	140.82	104.00
2	J	15	A	P-O3'-C3'	-19.38	96.44	119.70
1	I	358	A	O3'-P-O5'	19.36	140.79	104.00
6	N	380	U	P-O3'-C3'	-19.36	96.47	119.70
4	L	602	U	P-O3'-C3'	-19.34	96.49	119.70
3	K	161	A	P-O3'-C3'	-19.34	96.50	119.70
4	L	516	U	O3'-P-O5'	-19.33	67.27	104.00
1	I	117	A	P-O3'-C3'	-19.32	96.51	119.70
5	M	327	U	OP2-P-O3'	-19.32	62.69	105.20
2	J	202	A	P-O3'-C3'	-19.32	96.51	119.70
2	J	160	A	OP2-P-O3'	19.32	147.71	105.20
3	K	97	A	O3'-P-O5'	-19.32	67.30	104.00
1	I	120	A	P-O3'-C3'	-19.31	96.53	119.70
1	I	233	A	OP2-P-O3'	19.30	147.66	105.20
1	I	74	A	P-O3'-C3'	-19.30	96.55	119.70
1	I	20	A	O3'-P-O5'	-19.29	67.34	104.00
4	L	611	U	O3'-P-O5'	-19.29	67.35	104.00
5	M	488	U	OP2-P-O3'	19.29	147.63	105.20
6	N	473	U	P-O3'-C3'	-19.29	96.56	119.70
4	L	574	U	O3'-P-O5'	-19.28	67.36	104.00
1	I	230	A	OP2-P-O3'	19.27	147.60	105.20
5	M	463	U	P-O3'-C3'	-19.26	96.59	119.70
1	I	282	A	O3'-P-O5'	19.25	140.57	104.00
1	I	184	A	P-O3'-C3'	-19.24	96.61	119.70
2	J	263	A	P-O3'-C3'	-19.24	96.61	119.70
4	L	764	U	O3'-P-O5'	-19.24	67.45	104.00
3	K	117	A	O3'-P-O5'	19.23	140.53	104.00
1	I	340	A	OP2-P-O3'	-19.23	62.90	105.20
6	N	448	U	P-O3'-C3'	-19.21	96.65	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	287	A	OP2-P-O3'	19.20	147.45	105.20
5	M	324	U	P-O3'-C3'	-19.20	96.65	119.70
4	L	811	U	OP2-P-O3'	19.20	147.44	105.20
5	M	318	U	OP2-P-O3'	19.19	147.42	105.20
5	M	349	U	OP2-P-O3'	19.16	147.36	105.20
2	J	222	A	OP2-P-O3'	19.15	147.34	105.20
1	I	261	A	P-O3'-C3'	-19.14	96.72	119.70
6	N	392	U	OP2-P-O3'	-19.14	63.08	105.20
4	L	754	U	P-O3'-C3'	-19.13	96.75	119.70
4	L	480	U	P-O3'-C3'	-19.12	96.76	119.70
6	N	333	U	O3'-P-O5'	-19.11	67.68	104.00
3	K	164	A	OP2-P-O3'	19.11	147.25	105.20
1	I	240	A	O3'-P-O5'	19.10	140.28	104.00
3	K	154	A	OP2-P-O3'	19.09	147.20	105.20
4	L	477	U	P-O3'-C3'	-19.07	96.81	119.70
2	J	237	A	OP2-P-O3'	-19.07	63.25	105.20
5	M	296	U	OP2-P-O3'	19.06	147.14	105.20
1	I	205	A	O3'-P-O5'	19.04	140.18	104.00
2	J	182	A	O3'-P-O5'	-19.03	67.84	104.00
5	M	457	U	OP2-P-O3'	19.03	147.06	105.20
1	I	236	A	P-O3'-C3'	-19.03	96.87	119.70
1	I	192	A	P-O3'-C3'	-19.03	96.87	119.70
4	L	730	U	OP2-P-O3'	-19.02	63.35	105.20
5	M	548	U	OP2-P-O3'	-19.02	63.36	105.20
3	K	54	A	O3'-P-O5'	19.01	140.12	104.00
2	J	225	A	O3'-P-O5'	18.99	140.09	104.00
5	M	426	U	O3'-P-O5'	18.98	140.06	104.00
4	L	754	U	OP2-P-O3'	18.97	146.94	105.20
2	J	86	A	O3'-P-O5'	18.97	140.04	104.00
3	K	165	A	OP2-P-O3'	18.97	146.93	105.20
5	M	379	U	O3'-P-O5'	-18.96	67.97	104.00
3	K	226	A	OP1-P-O3'	18.96	146.91	105.20
5	M	525	U	P-O3'-C3'	-18.95	96.97	119.70
6	N	399	U	P-O3'-C3'	-18.94	96.97	119.70
1	I	293	A	P-O3'-C3'	-18.93	96.98	119.70
5	M	496	U	O3'-P-O5'	18.92	139.94	104.00
4	L	520	U	P-O3'-C3'	-18.91	97.00	119.70
3	K	100	A	O3'-P-O5'	-18.88	68.14	104.00
4	L	628	U	O3'-P-O5'	18.86	139.82	104.00
6	N	295	U	OP2-P-O3'	-18.85	63.72	105.20
1	I	303	A	P-O3'-C3'	-18.84	97.09	119.70
6	N	400	U	P-O3'-C3'	-18.84	97.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	237	A	O3'-P-O5'	18.83	139.78	104.00
1	I	310	A	OP2-P-O3'	18.82	146.61	105.20
1	I	70	A	O3'-P-O5'	-18.81	68.25	104.00
4	L	598	U	P-O3'-C3'	-18.79	97.15	119.70
5	M	511	U	OP2-P-O3'	18.79	146.53	105.20
2	J	118	A	O3'-P-O5'	18.78	139.68	104.00
1	I	273	A	P-O3'-C3'	-18.77	97.18	119.70
5	M	361	U	OP2-P-O3'	-18.75	63.95	105.20
5	M	539	U	P-O3'-C3'	-18.75	97.20	119.70
4	L	561	U	P-O3'-C3'	-18.73	97.22	119.70
4	L	567	U	P-O3'-C3'	-18.72	97.23	119.70
5	M	461	U	P-O3'-C3'	-18.72	97.23	119.70
2	J	173	A	O3'-P-O5'	-18.71	68.44	104.00
1	I	12	A	P-O3'-C3'	-18.71	97.25	119.70
1	I	31	A	O3'-P-O5'	18.68	139.50	104.00
1	I	191	A	P-O3'-C3'	-18.68	97.29	119.70
1	I	273	A	OP2-P-O3'	18.67	146.28	105.20
1	I	304	A	P-O3'-C3'	-18.67	97.30	119.70
6	N	332	U	O3'-P-O5'	-18.65	68.56	104.00
1	I	182	A	P-O3'-C3'	-18.65	97.32	119.70
2	J	6	A	OP2-P-O3'	-18.64	64.20	105.20
4	L	459	U	P-O3'-C3'	-18.64	97.34	119.70
2	J	129	A	OP2-P-O3'	18.63	146.18	105.20
5	M	518	U	O3'-P-O5'	18.62	139.38	104.00
4	L	487	U	OP2-P-O3'	18.61	146.14	105.20
4	L	681	U	O3'-P-O5'	-18.61	68.64	104.00
4	L	588	U	P-O3'-C3'	-18.60	97.38	119.70
5	M	371	U	P-O3'-C3'	-18.60	97.38	119.70
4	L	758	U	O3'-P-O5'	-18.59	68.69	104.00
3	K	213	A	O3'-P-O5'	-18.58	68.70	104.00
3	K	158	A	P-O3'-C3'	-18.57	97.41	119.70
4	L	519	U	P-O3'-C3'	-18.56	97.42	119.70
5	M	334	U	O3'-P-O5'	-18.56	68.73	104.00
1	I	228	A	O3'-P-O5'	-18.55	68.75	104.00
6	N	317	U	O3'-P-O5'	-18.54	68.78	104.00
5	M	514	U	P-O3'-C3'	-18.52	97.47	119.70
2	J	46	A	P-O3'-C3'	-18.51	97.49	119.70
2	J	90	A	P-O3'-C3'	-18.50	97.50	119.70
1	I	266	A	OP2-P-O3'	18.49	145.88	105.20
2	J	55	A	O3'-P-O5'	-18.49	68.87	104.00
5	M	492	U	P-O3'-C3'	-18.48	97.52	119.70
3	K	164	A	O3'-P-O5'	-18.47	68.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	147	A	OP2-P-O3'	-18.47	64.56	105.20
1	I	344	A	O3'-P-O5'	18.46	139.08	104.00
4	L	559	U	P-O3'-C3'	-18.45	97.55	119.70
1	I	131	A	P-O3'-C3'	-18.44	97.57	119.70
2	J	194	A	P-O3'-C3'	-18.44	97.57	119.70
1	I	46	A	O3'-P-O5'	18.43	139.01	104.00
4	L	810	U	OP2-P-O3'	18.42	145.72	105.20
4	L	633	U	OP2-P-O3'	-18.41	64.69	105.20
4	L	532	U	OP2-P-O3'	18.41	145.70	105.20
2	J	209	A	P-O3'-C3'	-18.40	97.62	119.70
1	I	44	A	O3'-P-O5'	18.40	138.96	104.00
5	M	330	U	O3'-P-O5'	18.40	138.96	104.00
1	I	44	A	P-O3'-C3'	-18.36	97.66	119.70
6	N	327	U	O3'-P-O5'	-18.35	69.13	104.00
4	L	565	U	P-O3'-C3'	-18.34	97.69	119.70
4	L	599	U	O3'-P-O5'	-18.33	69.17	104.00
4	L	605	U	P-O3'-C3'	-18.31	97.73	119.70
5	M	505	U	P-O3'-C3'	-18.30	97.74	119.70
2	J	57	A	P-O3'-C3'	-18.30	97.74	119.70
2	J	80	A	P-O3'-C3'	-18.29	97.76	119.70
6	N	392	U	O3'-P-O5'	18.28	138.74	104.00
2	J	24	A	O3'-P-O5'	18.28	138.73	104.00
1	I	138	A	OP2-P-O3'	18.27	145.41	105.20
4	L	556	U	P-O3'-C3'	-18.26	97.79	119.70
2	J	13	A	O3'-P-O5'	18.25	138.68	104.00
4	L	523	U	O3'-P-O5'	18.24	138.66	104.00
5	M	299	U	OP2-P-O3'	18.24	145.32	105.20
1	I	161	A	OP2-P-O3'	18.23	145.32	105.20
4	L	589	U	P-O3'-C3'	-18.23	97.82	119.70
6	N	484	U	OP2-P-O3'	18.22	145.29	105.20
4	L	744	U	P-O3'-C3'	-18.21	97.84	119.70
5	M	410	U	P-O3'-C3'	-18.21	97.84	119.70
2	J	228	A	O3'-P-O5'	-18.20	69.41	104.00
6	N	485	U	OP2-P-O3'	18.20	145.25	105.20
5	M	377	U	O3'-P-O5'	-18.18	69.46	104.00
6	N	338	U	O3'-P-O5'	-18.17	69.48	104.00
4	L	501	U	O3'-P-O5'	18.17	138.52	104.00
6	N	468	U	OP2-P-O3'	-18.17	65.23	105.20
6	N	318	U	OP1-P-O3'	18.16	145.16	105.20
2	J	61	A	O3'-P-O5'	18.16	138.51	104.00
3	K	133	A	P-O3'-C3'	-18.16	97.91	119.70
3	K	92	A	P-O3'-C3'	-18.16	97.91	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	321	U	O3'-P-O5'	-18.16	69.50	104.00
5	M	337	U	OP1-P-O3'	-18.15	65.27	105.20
2	J	34	A	O3'-P-O5'	18.15	138.48	104.00
5	M	288	U	P-O3'-C3'	-18.15	97.92	119.70
6	N	484	U	O3'-P-O5'	-18.14	69.53	104.00
4	L	715	U	OP2-P-O3'	-18.13	65.31	105.20
2	J	73	A	OP2-P-O3'	-18.13	65.32	105.20
4	L	475	U	P-O3'-C3'	-18.13	97.95	119.70
5	M	340	U	P-O3'-C3'	-18.13	97.95	119.70
6	N	329	U	O3'-P-O5'	-18.13	69.56	104.00
5	M	360	U	O3'-P-O5'	18.12	138.44	104.00
4	L	419	U	OP2-P-O3'	-18.12	65.33	105.20
5	M	300	U	P-O3'-C3'	-18.12	97.95	119.70
1	I	297	A	P-O3'-C3'	-18.11	97.96	119.70
3	K	118	A	OP2-P-O3'	18.11	145.05	105.20
3	K	225	A	P-O3'-C3'	18.11	141.43	119.70
6	N	428	U	P-O3'-C3'	-18.11	97.97	119.70
4	L	459	U	OP2-P-O3'	18.11	145.03	105.20
5	M	322	U	OP2-P-O3'	18.11	145.03	105.20
4	L	783	U	OP2-P-O3'	-18.10	65.39	105.20
4	L	786	U	OP2-P-O3'	-18.09	65.40	105.20
2	J	180	A	O3'-P-O5'	18.09	138.37	104.00
2	J	183	A	OP1-P-O3'	-18.09	65.40	105.20
4	L	814	U	P-O3'-C3'	-18.07	98.02	119.70
2	J	52	A	P-O3'-C3'	-18.06	98.03	119.70
5	M	435	U	OP2-P-O3'	-18.05	65.50	105.20
5	M	369	U	P-O3'-C3'	-18.04	98.05	119.70
6	N	451	U	O3'-P-O5'	-18.04	69.72	104.00
5	M	392	U	O3'-P-O5'	-18.03	69.75	104.00
1	I	291	A	P-O3'-C3'	-18.00	98.10	119.70
4	L	823	U	OP2-P-O3'	-18.00	65.61	105.20
1	I	296	A	OP2-P-O3'	17.98	144.76	105.20
5	M	506	U	P-O3'-C3'	-17.98	98.13	119.70
1	I	340	A	O3'-P-O5'	17.97	138.15	104.00
4	L	741	U	O3'-P-O5'	17.97	138.14	104.00
6	N	304	U	OP1-P-O3'	17.96	144.71	105.20
3	K	96	A	P-O3'-C3'	-17.95	98.17	119.70
4	L	548	U	O3'-P-O5'	-17.94	69.92	104.00
4	L	737	U	O3'-P-O5'	17.92	138.05	104.00
1	I	296	A	P-O3'-C3'	-17.91	98.20	119.70
4	L	547	U	O3'-P-O5'	-17.91	69.97	104.00
4	L	770	U	P-O3'-C3'	-17.91	98.21	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	576	U	OP2-P-O3'	17.89	144.55	105.20
5	M	485	U	OP2-P-O3'	17.88	144.53	105.20
5	M	392	U	OP2-P-O3'	17.87	144.52	105.20
2	J	168	A	OP2-P-O3'	-17.85	65.92	105.20
6	N	454	U	OP2-P-O3'	17.85	144.47	105.20
6	N	278	U	OP2-P-O3'	17.84	144.46	105.20
2	J	47	A	OP2-P-O3'	17.84	144.44	105.20
6	N	416	U	O3'-P-O5'	-17.81	70.15	104.00
1	I	287	A	O3'-P-O5'	-17.81	70.16	104.00
1	I	13	A	OP2-P-O3'	17.81	144.38	105.20
2	J	223	A	OP1-P-O3'	-17.79	66.05	105.20
4	L	760	U	OP2-P-O3'	17.79	144.34	105.20
2	J	235	A	P-O3'-C3'	-17.79	98.35	119.70
6	N	365	U	O3'-P-O5'	17.79	137.80	104.00
5	M	455	U	P-O3'-C3'	-17.79	98.36	119.70
5	M	489	U	O3'-P-O5'	-17.78	70.21	104.00
3	K	96	A	OP2-P-O3'	17.78	144.31	105.20
1	I	175	A	O3'-P-O5'	17.77	137.76	104.00
1	I	128	A	OP2-P-O3'	17.76	144.27	105.20
4	L	650	U	P-O3'-C3'	-17.76	98.39	119.70
1	I	109	A	OP2-P-O3'	-17.75	66.15	105.20
4	L	685	U	O3'-P-O5'	17.75	137.72	104.00
1	I	271	A	O3'-P-O5'	17.75	137.72	104.00
2	J	55	A	OP2-P-O3'	17.74	144.22	105.20
4	L	816	U	P-O3'-C3'	-17.74	98.42	119.70
6	N	444	U	P-O3'-C3'	-17.73	98.42	119.70
1	I	110	A	O3'-P-O5'	-17.73	70.31	104.00
4	L	637	U	P-O3'-C3'	-17.72	98.43	119.70
6	N	388	U	OP2-P-O3'	-17.71	66.24	105.20
5	M	474	U	O3'-P-O5'	17.69	137.62	104.00
5	M	408	U	P-O3'-C3'	-17.68	98.48	119.70
4	L	557	U	OP2-P-O3'	17.68	144.10	105.20
2	J	88	A	P-O3'-C3'	-17.67	98.50	119.70
5	M	377	U	P-O3'-C3'	-17.67	98.50	119.70
4	L	480	U	O3'-P-O5'	17.66	137.56	104.00
6	N	417	U	P-O3'-C3'	-17.66	98.51	119.70
4	L	754	U	O3'-P-O5'	-17.65	70.47	104.00
3	K	174	A	P-O3'-C3'	-17.65	98.52	119.70
4	L	483	U	P-O3'-C3'	-17.65	98.52	119.70
4	L	700	U	P-O3'-C3'	-17.64	98.53	119.70
4	L	564	U	P-O3'-C3'	-17.64	98.53	119.70
4	L	637	U	O3'-P-O5'	-17.64	70.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	206	A	OP2-P-O3'	-17.64	66.40	105.20
1	I	334	A	OP2-P-O3'	17.63	143.98	105.20
3	K	119	A	OP2-P-O3'	17.63	143.98	105.20
6	N	427	U	P-O3'-C3'	-17.61	98.57	119.70
1	I	8	A	P-O3'-C3'	-17.61	98.57	119.70
1	I	373	A	P-O3'-C3'	-17.60	98.58	119.70
4	L	611	U	P-O3'-C3'	-17.60	98.58	119.70
5	M	367	U	P-O3'-C3'	-17.60	98.58	119.70
4	L	814	U	OP2-P-O3'	17.56	143.84	105.20
5	M	317	U	O3'-P-O5'	17.56	137.37	104.00
2	J	67	A	P-O3'-C3'	-17.56	98.63	119.70
1	I	330	A	P-O3'-C3'	-17.54	98.65	119.70
6	N	474	U	P-O3'-C3'	-17.53	98.67	119.70
1	I	64	A	OP2-P-O3'	17.52	143.75	105.20
2	J	32	A	P-O3'-C3'	-17.52	98.67	119.70
2	J	123	A	O3'-P-O5'	-17.52	70.71	104.00
5	M	419	U	OP2-P-O3'	17.52	143.74	105.20
6	N	304	U	P-O3'-C3'	17.52	140.72	119.70
5	M	545	U	OP2-P-O3'	-17.51	66.68	105.20
6	N	445	U	O3'-P-O5'	17.51	137.27	104.00
1	I	389	A	P-O3'-C3'	17.50	140.70	119.70
1	I	329	A	OP2-P-O3'	17.50	143.69	105.20
5	M	376	U	OP2-P-O3'	17.49	143.69	105.20
4	L	625	U	OP2-P-O3'	-17.48	66.75	105.20
2	J	188	A	O3'-P-O5'	17.47	137.19	104.00
1	I	270	A	OP2-P-O3'	17.46	143.62	105.20
3	K	66	A	P-O3'-C3'	-17.45	98.75	119.70
3	K	166	A	P-O3'-C3'	-17.45	98.76	119.70
4	L	676	U	P-O3'-C3'	-17.45	98.76	119.70
3	K	156	A	O3'-P-O5'	-17.41	70.91	104.00
1	I	18	A	OP2-P-O3'	17.41	143.50	105.20
1	I	113	A	P-O3'-C3'	-17.39	98.83	119.70
4	L	479	U	O3'-P-O5'	17.39	137.04	104.00
1	I	249	A	P-O3'-C3'	-17.37	98.85	119.70
4	L	656	U	P-O3'-C3'	-17.36	98.86	119.70
4	L	421	U	O3'-P-O5'	-17.36	71.01	104.00
1	I	112	A	O3'-P-O5'	-17.36	71.02	104.00
1	I	342	A	OP2-P-O3'	17.35	143.38	105.20
3	K	206	A	O3'-P-O5'	-17.35	71.03	104.00
3	K	173	A	P-O3'-C3'	-17.33	98.90	119.70
2	J	187	A	P-O3'-C3'	-17.33	98.91	119.70
3	K	205	A	O3'-P-O5'	-17.32	71.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	474	U	OP2-P-O3'	17.29	143.23	105.20
5	M	393	U	O3'-P-O5'	-17.29	71.16	104.00
1	I	72	A	OP2-P-O3'	17.28	143.22	105.20
3	K	180	A	OP2-P-O3'	-17.28	67.18	105.20
5	M	453	U	OP2-P-O3'	17.28	143.22	105.20
1	I	128	A	O3'-P-O5'	-17.25	71.23	104.00
6	N	434	U	O3'-P-O5'	-17.24	71.24	104.00
6	N	311	U	OP2-P-O3'	17.24	143.12	105.20
1	I	266	A	OP1-P-O3'	-17.23	67.30	105.20
4	L	651	U	P-O3'-C3'	-17.23	99.03	119.70
2	J	59	A	P-O3'-C3'	-17.21	99.04	119.70
4	L	634	U	OP2-P-O3'	17.21	143.06	105.20
4	L	674	U	OP2-P-O3'	17.20	143.05	105.20
1	I	130	A	O3'-P-O5'	17.20	136.67	104.00
3	K	171	A	O3'-P-O5'	17.19	136.67	104.00
1	I	194	A	P-O3'-C3'	-17.18	99.08	119.70
6	N	526	U	OP2-P-O3'	17.17	142.98	105.20
2	J	132	A	OP2-P-O3'	17.16	142.96	105.20
4	L	779	U	OP2-P-O3'	17.15	142.93	105.20
1	I	375	A	O3'-P-O5'	17.14	136.57	104.00
2	J	127	A	P-O3'-C3'	-17.14	99.13	119.70
5	M	310	U	P-O3'-C3'	-17.14	99.14	119.70
4	L	496	U	O3'-P-O5'	-17.13	71.45	104.00
1	I	66	A	O3'-P-O5'	-17.13	71.45	104.00
5	M	437	U	OP2-P-O3'	17.12	142.87	105.20
1	I	220	A	O3'-P-O5'	17.12	136.52	104.00
1	I	65	A	OP1-P-O3'	-17.12	67.54	105.20
4	L	706	U	OP2-P-O3'	17.11	142.85	105.20
3	K	169	A	P-O3'-C3'	-17.08	99.21	119.70
5	M	547	U	O3'-P-O5'	17.07	136.44	104.00
3	K	47	A	P-O3'-C3'	-17.07	99.22	119.70
1	I	159	A	O3'-P-O5'	17.06	136.41	104.00
3	K	119	A	OP1-P-O3'	-17.06	67.67	105.20
1	I	61	A	O3'-P-O5'	-17.05	71.60	104.00
1	I	344	A	P-O3'-C3'	-17.03	99.26	119.70
2	J	54	A	O3'-P-O5'	-17.03	71.64	104.00
5	M	361	U	O3'-P-O5'	17.03	136.36	104.00
4	L	727	U	OP2-P-O3'	-17.03	67.74	105.20
2	J	25	A	O3'-P-O5'	17.02	136.34	104.00
1	I	213	A	O3'-P-O5'	-17.01	71.68	104.00
4	L	787	U	O3'-P-O5'	17.01	136.32	104.00
1	I	338	A	P-O3'-C3'	-17.00	99.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	210	A	O3'-P-O5'	-17.00	71.70	104.00
5	M	508	U	P-O3'-C3'	-16.98	99.32	119.70
4	L	563	U	O3'-P-O5'	-16.97	71.75	104.00
4	L	447	U	OP2-P-O3'	-16.96	67.88	105.20
6	N	412	U	P-O3'-C3'	-16.96	99.35	119.70
4	L	629	U	P-O3'-C3'	-16.95	99.36	119.70
3	K	5	A	O3'-P-O5'	-16.95	71.79	104.00
1	I	36	A	P-O3'-C3'	-16.95	99.36	119.70
2	J	211	A	P-O3'-C3'	-16.95	99.36	119.70
4	L	482	U	P-O3'-C3'	-16.94	99.37	119.70
5	M	407	U	P-O3'-C3'	-16.94	99.37	119.70
1	I	302	A	P-O3'-C3'	-16.93	99.39	119.70
3	K	90	A	P-O3'-C3'	-16.90	99.42	119.70
1	I	267	A	O3'-P-O5'	16.89	136.10	104.00
5	M	327	U	P-O3'-C3'	-16.88	99.44	119.70
4	L	586	U	O3'-P-O5'	-16.87	71.94	104.00
6	N	303	U	OP1-P-O3'	16.86	142.29	105.20
1	I	186	A	OP2-P-O3'	-16.84	68.14	105.20
1	I	206	A	O3'-P-O5'	16.82	135.95	104.00
5	M	490	U	O3'-P-O5'	16.82	135.95	104.00
3	K	227	A	OP1-P-O3'	16.81	142.18	105.20
4	L	764	U	OP2-P-O3'	16.80	142.17	105.20
6	N	449	U	OP2-P-O3'	16.79	142.13	105.20
1	I	48	A	OP2-P-O3'	16.78	142.12	105.20
6	N	446	U	O3'-P-O5'	16.78	135.89	104.00
1	I	115	A	O3'-P-O5'	16.77	135.87	104.00
4	L	516	U	OP2-P-O3'	16.77	142.09	105.20
4	L	745	U	OP2-P-O3'	-16.75	68.35	105.20
1	I	322	A	OP2-P-O3'	16.74	142.03	105.20
6	N	422	U	P-O3'-C3'	-16.73	99.62	119.70
2	J	229	A	OP2-P-O3'	16.70	141.94	105.20
1	I	84	A	O3'-P-O5'	16.70	135.72	104.00
2	J	70	A	OP2-P-O3'	16.70	141.93	105.20
2	J	248	A	P-O3'-C3'	-16.69	99.67	119.70
4	L	615	U	P-O3'-C3'	-16.68	99.68	119.70
3	K	110	A	OP2-P-O3'	16.68	141.89	105.20
4	L	759	U	OP1-P-O3'	-16.67	68.53	105.20
5	M	528	U	P-O3'-C3'	-16.66	99.70	119.70
3	K	45	A	O3'-P-O5'	-16.65	72.37	104.00
5	M	323	U	P-O3'-C3'	-16.64	99.73	119.70
1	I	143	A	P-O3'-C3'	16.64	139.67	119.70
5	M	464	U	O3'-P-O5'	16.63	135.60	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	536	U	P-O3'-C3'	-16.62	99.75	119.70
6	N	451	U	OP2-P-O3'	16.62	141.77	105.20
4	L	777	U	OP2-P-O3'	16.61	141.74	105.20
2	J	33	A	P-O3'-C3'	-16.61	99.77	119.70
6	N	455	U	P-O3'-C3'	-16.60	99.78	119.70
6	N	411	U	O3'-P-O5'	16.60	135.53	104.00
5	M	526	U	OP2-P-O3'	16.58	141.67	105.20
1	I	53	A	O3'-P-O5'	16.57	135.49	104.00
4	L	422	U	O3'-P-O5'	-16.57	72.52	104.00
2	J	73	A	O3'-P-O5'	16.57	135.48	104.00
4	L	573	U	O3'-P-O5'	-16.56	72.53	104.00
1	I	219	A	O3'-P-O5'	16.55	135.45	104.00
4	L	807	U	OP1-P-O3'	-16.55	68.78	105.20
5	M	433	U	P-O3'-C3'	-16.55	99.84	119.70
5	M	464	U	P-O3'-C3'	-16.54	99.86	119.70
4	L	447	U	O3'-P-O5'	16.53	135.41	104.00
4	L	587	U	OP2-P-O3'	16.53	141.56	105.20
5	M	527	U	P-O3'-C3'	-16.52	99.88	119.70
4	L	531	U	OP2-P-O3'	16.51	141.52	105.20
4	L	751	U	OP2-P-O3'	16.51	141.51	105.20
1	I	345	A	O3'-P-O5'	16.50	135.35	104.00
3	K	93	A	P-O3'-C3'	-16.49	99.91	119.70
5	M	522	U	P-O3'-C3'	-16.48	99.92	119.70
1	I	55	A	P-O3'-C3'	-16.48	99.93	119.70
6	N	387	U	P-O3'-C3'	16.47	139.46	119.70
1	I	285	A	OP2-P-O3'	16.47	141.43	105.20
1	I	323	A	OP2-P-O3'	16.46	141.42	105.20
4	L	727	U	O3'-P-O5'	16.46	135.28	104.00
2	J	60	A	O3'-P-O5'	16.46	135.27	104.00
5	M	411	U	P-O3'-C3'	-16.45	99.96	119.70
4	L	804	U	O3'-P-O5'	-16.45	72.75	104.00
2	J	215	A	O3'-P-O5'	16.44	135.23	104.00
2	J	252	A	P-O3'-C3'	-16.44	99.98	119.70
5	M	354	U	O3'-P-O5'	16.43	135.23	104.00
1	I	47	A	O3'-P-O5'	16.43	135.21	104.00
4	L	806	U	OP2-P-O3'	16.43	141.34	105.20
1	I	92	A	P-O3'-C3'	-16.42	100.00	119.70
6	N	483	U	P-O3'-C3'	-16.42	100.00	119.70
4	L	551	U	O3'-P-O5'	16.41	135.19	104.00
2	J	229	A	O3'-P-O5'	-16.41	72.83	104.00
6	N	328	U	O3'-P-O5'	-16.41	72.83	104.00
1	I	255	A	OP2-P-O3'	16.40	141.29	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	247	A	O3'-P-O5'	16.40	135.16	104.00
5	M	420	U	OP2-P-O3'	16.39	141.27	105.20
2	J	115	A	OP2-P-O3'	-16.39	69.14	105.20
3	K	148	A	OP2-P-O3'	-16.39	69.15	105.20
3	K	80	A	O3'-P-O5'	-16.38	72.89	104.00
5	M	396	U	OP2-P-O3'	16.37	141.22	105.20
4	L	711	U	OP2-P-O3'	16.37	141.22	105.20
6	N	393	U	O3'-P-O5'	16.36	135.08	104.00
6	N	398	U	O3'-P-O5'	16.34	135.04	104.00
5	M	512	U	OP2-P-O3'	16.32	141.11	105.20
2	J	43	A	O3'-P-O5'	-16.32	73.00	104.00
1	I	26	A	OP2-P-O3'	16.31	141.08	105.20
2	J	93	A	OP2-P-O3'	16.31	141.07	105.20
1	I	15	A	O3'-P-O5'	-16.30	73.03	104.00
1	I	132	A	P-O3'-C3'	-16.28	100.16	119.70
2	J	200	A	O3'-P-O5'	16.28	134.93	104.00
4	L	724	U	O3'-P-O5'	-16.28	73.07	104.00
2	J	101	A	P-O3'-C3'	-16.27	100.18	119.70
2	J	23	A	P-O3'-C3'	-16.27	100.18	119.70
6	N	428	U	O3'-P-O5'	16.25	134.87	104.00
3	K	73	A	OP2-P-O3'	16.24	140.94	105.20
5	M	299	U	O3'-P-O5'	-16.24	73.14	104.00
6	N	310	U	O3'-P-O5'	-16.24	73.14	104.00
2	J	185	A	P-O3'-C3'	-16.23	100.22	119.70
1	I	50	A	O3'-P-O5'	16.23	134.84	104.00
5	M	378	U	OP2-P-O3'	-16.22	69.52	105.20
3	K	53	A	O3'-P-O5'	16.22	134.81	104.00
4	L	818	U	OP2-P-O3'	-16.22	69.52	105.20
5	M	486	U	P-O3'-C3'	-16.21	100.24	119.70
2	J	38	A	O3'-P-O5'	16.21	134.79	104.00
1	I	341	A	OP2-P-O3'	16.14	140.70	105.20
5	M	476	U	P-O3'-C3'	-16.13	100.34	119.70
2	J	21	A	P-O3'-C3'	-16.11	100.37	119.70
2	J	216	A	O3'-P-O5'	16.10	134.59	104.00
1	I	231	A	O3'-P-O5'	-16.09	73.43	104.00
3	K	248	A	O3'-P-O5'	16.09	134.57	104.00
6	N	358	U	O3'-P-O5'	16.08	134.55	104.00
2	J	188	A	OP2-P-O3'	-16.07	69.86	105.20
5	M	450	U	O3'-P-O5'	-16.06	73.48	104.00
4	L	507	U	OP2-P-O3'	16.06	140.53	105.20
6	N	303	U	P-O3'-C3'	16.05	138.96	119.70
6	N	429	U	P-O3'-C3'	-16.05	100.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	36	A	P-O3'-C3'	-16.05	100.45	119.70
2	J	46	A	O3'-P-O5'	16.03	134.46	104.00
2	J	214	A	P-O3'-C3'	-16.03	100.46	119.70
3	K	108	A	OP2-P-O3'	16.03	140.47	105.20
2	J	13	A	P-O3'-C3'	-16.03	100.47	119.70
2	J	192	A	P-O3'-C3'	-16.02	100.47	119.70
4	L	699	U	OP2-P-O3'	16.01	140.41	105.20
5	M	319	U	O3'-P-O5'	-16.00	73.59	104.00
6	N	527	U	P-O3'-C3'	-16.00	100.50	119.70
1	I	263	A	P-O3'-C3'	-15.99	100.51	119.70
5	M	348	U	P-O3'-C3'	-15.97	100.53	119.70
6	N	391	U	O3'-P-O5'	15.97	134.34	104.00
1	I	71	A	O3'-P-O5'	-15.96	73.67	104.00
2	J	131	A	P-O3'-C3'	-15.96	100.55	119.70
2	J	153	A	P-O3'-C3'	-15.96	100.55	119.70
1	I	134	A	O3'-P-O5'	15.95	134.30	104.00
4	L	643	U	P-O3'-C3'	-15.94	100.57	119.70
4	L	556	U	O3'-P-O5'	15.93	134.28	104.00
2	J	179	A	O3'-P-O5'	15.93	134.27	104.00
4	L	499	U	P-O3'-C3'	-15.93	100.59	119.70
1	I	90	A	OP2-P-O3'	15.91	140.21	105.20
3	K	91	A	P-O3'-C3'	-15.91	100.61	119.70
3	K	26	A	OP2-P-O3'	-15.90	70.21	105.20
4	L	587	U	O3'-P-O5'	-15.89	73.81	104.00
5	M	377	U	OP2-P-O3'	15.89	140.16	105.20
5	M	397	U	P-O3'-C3'	-15.89	100.63	119.70
4	L	484	U	P-O3'-C3'	-15.88	100.65	119.70
4	L	479	U	P-O3'-C3'	-15.87	100.65	119.70
1	I	114	A	P-O3'-C3'	-15.86	100.66	119.70
2	J	181	A	O3'-P-O5'	15.86	134.14	104.00
2	J	130	A	OP2-P-O3'	15.86	140.09	105.20
5	M	520	U	OP2-P-O3'	15.86	140.10	105.20
1	I	306	A	P-O3'-C3'	-15.86	100.67	119.70
1	I	189	A	P-O3'-C3'	-15.85	100.68	119.70
4	L	665	U	O3'-P-O5'	15.83	134.08	104.00
6	N	401	U	P-O3'-C3'	-15.82	100.72	119.70
3	K	67	A	O3'-P-O5'	15.81	134.03	104.00
4	L	735	U	P-O3'-C3'	-15.80	100.74	119.70
4	L	620	U	OP2-P-O3'	-15.80	70.45	105.20
3	K	102	A	P-O3'-C3'	-15.79	100.75	119.70
1	I	300	A	O3'-P-O5'	15.77	133.97	104.00
2	J	94	A	P-O3'-C3'	-15.77	100.77	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	554	U	O3'-P-O5'	15.77	133.97	104.00
4	L	635	U	P-O3'-C3'	-15.77	100.77	119.70
1	I	376	A	O3'-P-O5'	15.76	133.93	104.00
1	I	253	A	O3'-P-O5'	-15.75	74.07	104.00
4	L	694	U	OP1-P-O3'	-15.75	70.54	105.20
1	I	41	A	OP2-P-O3'	-15.75	70.56	105.20
1	I	49	A	P-O3'-C3'	-15.74	100.81	119.70
4	L	660	U	O3'-P-O5'	-15.73	74.11	104.00
2	J	58	A	P-O3'-C3'	-15.72	100.83	119.70
6	N	496	U	OP2-P-O3'	15.72	139.79	105.20
1	I	353	A	OP2-P-O3'	15.72	139.78	105.20
6	N	463	U	P-O3'-C3'	-15.72	100.84	119.70
4	L	614	U	P-O3'-C3'	-15.72	100.84	119.70
4	L	763	U	P-O3'-C3'	-15.71	100.85	119.70
2	J	20	A	P-O3'-C3'	-15.70	100.86	119.70
3	K	227	A	P-O3'-C3'	15.69	138.53	119.70
2	J	64	A	O3'-P-O5'	-15.69	74.20	104.00
1	I	393	A	O3'-P-O5'	-15.68	74.20	104.00
2	J	96	A	P-O3'-C3'	-15.67	100.90	119.70
4	L	668	U	OP1-P-O3'	15.67	139.66	105.20
2	J	265	A	O3'-P-O5'	15.66	133.75	104.00
2	J	142	A	O3'-P-O5'	-15.65	74.26	104.00
4	L	767	U	P-O3'-C3'	15.65	138.48	119.70
4	L	517	U	O3'-P-O5'	-15.65	74.27	104.00
3	K	254	A	O3'-P-O5'	-15.64	74.28	104.00
4	L	740	U	P-O3'-C3'	-15.63	100.94	119.70
3	K	109	A	OP2-P-O3'	15.62	139.57	105.20
1	I	249	A	OP2-P-O3'	15.62	139.56	105.20
2	J	207	A	OP2-P-O3'	15.62	139.55	105.20
3	K	101	A	OP2-P-O3'	15.62	139.55	105.20
4	L	497	U	OP1-P-O3'	-15.62	70.85	105.20
1	I	58	A	O3'-P-O5'	-15.61	74.34	104.00
4	L	496	U	P-O3'-C3'	-15.61	100.97	119.70
5	M	368	U	OP2-P-O3'	15.60	139.52	105.20
6	N	490	U	P-O3'-C3'	-15.60	100.99	119.70
2	J	90	A	OP2-P-O3'	15.59	139.49	105.20
2	J	215	A	P-O3'-C3'	-15.57	101.01	119.70
4	L	649	U	P-O3'-C3'	-15.57	101.02	119.70
1	I	283	A	O3'-P-O5'	15.56	133.56	104.00
1	I	242	A	OP2-P-O3'	15.55	139.41	105.20
5	M	474	U	OP2-P-O3'	-15.54	71.01	105.20
3	K	144	A	O3'-P-O5'	-15.53	74.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	51	A	P-O3'-C3'	-15.53	101.06	119.70
4	L	533	U	P-O3'-C3'	-15.53	101.07	119.70
6	N	407	U	P-O3'-C3'	-15.52	101.07	119.70
1	I	222	A	OP2-P-O3'	15.52	139.34	105.20
1	I	107	A	O3'-P-O5'	-15.51	74.54	104.00
4	L	560	U	P-O3'-C3'	-15.51	101.09	119.70
1	I	18	A	O3'-P-O5'	-15.50	74.55	104.00
5	M	335	U	OP2-P-O3'	15.50	139.30	105.20
1	I	331	A	P-O3'-C3'	-15.49	101.11	119.70
1	I	100	A	P-O3'-C3'	-15.49	101.12	119.70
4	L	511	U	OP2-P-O3'	-15.46	71.18	105.20
3	K	79	A	P-O3'-C3'	-15.46	101.14	119.70
2	J	29	A	OP1-P-O3'	-15.44	71.23	105.20
6	N	391	U	OP2-P-O3'	-15.44	71.23	105.20
3	K	225	A	OP1-P-O3'	15.43	139.16	105.20
1	I	187	A	O3'-P-O5'	-15.43	74.68	104.00
1	I	37	A	O3'-P-O5'	15.43	133.31	104.00
2	J	66	A	P-O3'-C3'	-15.43	101.19	119.70
1	I	262	A	OP2-P-O3'	15.43	139.14	105.20
5	M	400	U	P-O3'-C3'	-15.43	101.19	119.70
5	M	522	U	OP2-P-O3'	15.42	139.12	105.20
1	I	291	A	OP2-P-O3'	15.40	139.08	105.20
6	N	489	U	O3'-P-O5'	15.39	133.24	104.00
2	J	163	A	OP2-P-O3'	-15.38	71.36	105.20
3	K	131	A	P-O3'-C3'	-15.37	101.25	119.70
1	I	29	A	P-O3'-C3'	-15.36	101.27	119.70
1	I	330	A	OP2-P-O3'	15.36	139.00	105.20
5	M	443	U	O3'-P-O5'	15.36	133.19	104.00
1	I	345	A	P-O3'-C3'	-15.35	101.28	119.70
4	L	513	U	P-O3'-C3'	-15.35	101.28	119.70
2	J	25	A	OP2-P-O3'	-15.35	71.43	105.20
2	J	102	A	P-O3'-C3'	-15.34	101.29	119.70
2	J	222	A	OP1-P-O3'	-15.34	71.45	105.20
4	L	755	U	OP2-P-O3'	15.33	138.92	105.20
1	I	303	A	O3'-P-O5'	15.32	133.10	104.00
4	L	672	U	O3'-P-O5'	-15.32	74.90	104.00
2	J	47	A	OP1-P-O3'	-15.30	71.54	105.20
6	N	406	U	O3'-P-O5'	-15.30	74.93	104.00
4	L	611	U	OP2-P-O3'	15.29	138.84	105.20
5	M	529	U	P-O3'-C3'	-15.29	101.35	119.70
3	K	49	A	OP2-P-O3'	-15.28	71.58	105.20
1	I	49	A	O3'-P-O5'	15.28	133.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	261	A	OP2-P-O3'	15.27	138.80	105.20
1	I	346	A	P-O3'-C3'	-15.26	101.38	119.70
5	M	409	U	P-O3'-C3'	-15.26	101.38	119.70
1	I	280	A	O3'-P-O5'	15.25	132.98	104.00
2	J	5	A	O3'-P-O5'	15.24	132.96	104.00
2	J	211	A	OP2-P-O3'	15.24	138.73	105.20
1	I	90	A	O3'-P-O5'	-15.24	75.05	104.00
4	L	620	U	O3'-P-O5'	15.24	132.95	104.00
6	N	408	U	OP2-P-O3'	-15.24	71.68	105.20
5	M	310	U	OP2-P-O3'	15.23	138.71	105.20
1	I	10	A	O3'-P-O5'	15.22	132.92	104.00
2	J	159	A	P-O3'-C3'	-15.21	101.45	119.70
4	L	734	U	OP2-P-O3'	15.21	138.66	105.20
1	I	390	A	P-O3'-C3'	15.21	137.95	119.70
1	I	67	A	OP2-P-O3'	15.20	138.65	105.20
4	L	763	U	OP2-P-O3'	15.20	138.65	105.20
4	L	488	U	OP2-P-O3'	15.19	138.61	105.20
4	L	723	U	OP2-P-O3'	15.19	138.61	105.20
6	N	523	U	OP2-P-O3'	-15.18	71.80	105.20
2	J	91	A	P-O3'-C3'	-15.18	101.48	119.70
4	L	537	U	OP2-P-O3'	15.17	138.57	105.20
4	L	688	U	P-O3'-C3'	-15.16	101.51	119.70
5	M	398	U	P-O3'-C3'	-15.16	101.51	119.70
5	M	298	U	P-O3'-C3'	-15.16	101.51	119.70
5	M	405	U	OP2-P-O3'	15.15	138.54	105.20
1	I	152	A	O3'-P-O5'	-15.15	75.22	104.00
4	L	525	U	OP2-P-O3'	15.14	138.50	105.20
2	J	48	A	OP2-P-O3'	15.13	138.49	105.20
2	J	106	A	P-O3'-C3'	-15.13	101.55	119.70
5	M	295	U	P-O3'-C3'	-15.12	101.55	119.70
4	L	468	U	P-O3'-C3'	-15.12	101.56	119.70
4	L	612	U	P-O3'-C3'	-15.11	101.56	119.70
6	N	497	U	O3'-P-O5'	-15.11	75.30	104.00
1	I	278	A	OP2-P-O3'	15.10	138.43	105.20
5	M	504	U	OP2-P-O3'	15.10	138.43	105.20
5	M	434	U	P-O3'-C3'	-15.10	101.58	119.70
4	L	668	U	O3'-P-O5'	-15.10	75.31	104.00
6	N	448	U	OP2-P-O3'	15.10	138.41	105.20
6	N	411	U	P-O3'-C3'	-15.09	101.59	119.70
1	I	136	A	OP2-P-O3'	15.09	138.40	105.20
5	M	368	U	OP1-P-O3'	-15.09	72.00	105.20
1	I	3	A	OP2-P-O3'	-15.08	72.03	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	277	U	OP2-P-O3'	15.07	138.36	105.20
4	L	448	U	O3'-P-O5'	15.06	132.61	104.00
6	N	497	U	P-O3'-C3'	-15.06	101.63	119.70
6	N	474	U	O3'-P-O5'	-15.05	75.41	104.00
4	L	632	U	O3'-P-O5'	15.04	132.58	104.00
5	M	448	U	P-O3'-C3'	-15.04	101.65	119.70
4	L	760	U	O3'-P-O5'	-15.03	75.45	104.00
4	L	738	U	OP2-P-O3'	-15.02	72.16	105.20
3	K	214	A	O3'-P-O5'	-15.01	75.48	104.00
6	N	338	U	OP1-P-O3'	15.01	138.22	105.20
5	M	328	U	P-O3'-C3'	-15.01	101.69	119.70
6	N	482	U	P-O3'-C3'	-15.00	101.70	119.70
1	I	232	A	O3'-P-O5'	-15.00	75.50	104.00
2	J	63	A	OP2-P-O3'	14.96	138.12	105.20
2	J	75	A	P-O3'-C3'	-14.96	101.75	119.70
1	I	106	A	O3'-P-O5'	14.96	132.42	104.00
1	I	355	A	P-O3'-C3'	-14.95	101.76	119.70
1	I	242	A	P-O3'-C3'	-14.95	101.77	119.70
5	M	333	U	OP2-P-O3'	14.94	138.07	105.20
5	M	288	U	OP2-P-O3'	14.94	138.06	105.20
1	I	197	A	O3'-P-O5'	14.93	132.38	104.00
2	J	254	A	OP2-P-O3'	14.92	138.02	105.20
1	I	238	A	O3'-P-O5'	-14.91	75.67	104.00
3	K	146	A	O3'-P-O5'	14.91	132.33	104.00
2	J	225	A	P-O3'-C3'	-14.91	101.81	119.70
4	L	496	U	OP2-P-O3'	14.91	137.99	105.20
6	N	498	U	P-O3'-C3'	-14.88	101.84	119.70
3	K	209	A	OP1-P-O3'	14.88	137.93	105.20
4	L	693	U	P-O3'-C3'	-14.87	101.85	119.70
1	I	161	A	O3'-P-O5'	-14.87	75.74	104.00
2	J	115	A	O3'-P-O5'	14.87	132.26	104.00
5	M	483	U	P-O3'-C3'	-14.87	101.85	119.70
5	M	529	U	O3'-P-O5'	14.87	132.25	104.00
1	I	9	A	P-O3'-C3'	-14.86	101.86	119.70
1	I	135	A	OP1-P-O3'	-14.86	72.50	105.20
3	K	168	A	O3'-P-O5'	-14.84	75.80	104.00
4	L	806	U	O3'-P-O5'	-14.84	75.80	104.00
2	J	223	A	OP2-P-O3'	14.84	137.85	105.20
1	I	168	A	P-O3'-C3'	-14.84	101.90	119.70
1	I	382	A	OP2-P-O3'	-14.84	72.56	105.20
4	L	739	U	O3'-P-O5'	14.84	132.19	104.00
3	K	46	A	O3'-P-O5'	-14.83	75.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	246	A	O3'-P-O5'	14.83	132.18	104.00
1	I	324	A	O3'-P-O5'	14.83	132.17	104.00
5	M	350	U	OP1-P-O3'	-14.83	72.58	105.20
1	I	310	A	O3'-P-O5'	-14.83	75.83	104.00
4	L	544	U	OP2-P-O3'	14.82	137.81	105.20
2	J	11	A	P-O3'-C3'	-14.82	101.92	119.70
3	K	38	A	OP2-P-O3'	-14.82	72.59	105.20
1	I	129	A	OP1-P-O3'	-14.81	72.61	105.20
4	L	596	U	O3'-P-O5'	-14.81	75.86	104.00
1	I	191	A	OP2-P-O3'	14.80	137.77	105.20
3	K	170	A	P-O3'-C3'	-14.80	101.94	119.70
1	I	137	A	OP2-P-O3'	14.79	137.74	105.20
4	L	510	U	OP2-P-O3'	14.78	137.71	105.20
4	L	752	U	P-O3'-C3'	-14.75	102.00	119.70
1	I	42	A	P-O3'-C3'	-14.75	102.00	119.70
1	I	404	A	O3'-P-O5'	-14.73	76.02	104.00
1	I	241	A	P-O3'-C3'	-14.72	102.03	119.70
1	I	138	A	P-O3'-C3'	-14.72	102.03	119.70
3	K	136	A	P-O3'-C3'	-14.72	102.04	119.70
4	L	484	U	OP2-P-O3'	14.71	137.56	105.20
2	J	79	A	OP2-P-O3'	14.71	137.56	105.20
6	N	415	U	OP1-P-O3'	14.71	137.56	105.20
1	I	315	A	OP2-P-O3'	14.71	137.55	105.20
1	I	270	A	O3'-P-O5'	-14.70	76.06	104.00
1	I	302	A	O3'-P-O5'	14.70	131.93	104.00
2	J	56	A	OP2-P-O3'	14.69	137.51	105.20
2	J	128	A	OP2-P-O3'	14.68	137.50	105.20
5	M	288	U	O3'-P-O5'	-14.68	76.11	104.00
1	I	4	A	P-O3'-C3'	14.67	137.31	119.70
4	L	714	U	O3'-P-O5'	-14.67	76.12	104.00
1	I	1	A	OP2-P-O3'	-14.67	72.93	105.20
4	L	485	U	P-O3'-C3'	-14.65	102.11	119.70
3	K	104	A	OP2-P-O3'	14.65	137.43	105.20
1	I	130	A	P-O3'-C3'	-14.64	102.13	119.70
1	I	19	A	OP2-P-O3'	14.64	137.40	105.20
5	M	438	U	OP2-P-O3'	14.63	137.38	105.20
2	J	257	A	P-O3'-C3'	-14.63	102.15	119.70
6	N	356	U	O3'-P-O5'	14.63	131.79	104.00
2	J	259	A	P-O3'-C3'	-14.63	102.15	119.70
4	L	807	U	OP2-P-O3'	14.63	137.38	105.20
3	K	160	A	P-O3'-C3'	-14.62	102.15	119.70
6	N	326	U	OP1-P-O3'	14.62	137.37	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	334	U	OP1-P-O3'	-14.62	73.04	105.20
4	L	537	U	O3'-P-O5'	-14.61	76.24	104.00
1	I	269	A	O3'-P-O5'	-14.61	76.25	104.00
3	K	46	A	OP2-P-O3'	14.60	137.31	105.20
5	M	419	U	P-O3'-C3'	-14.59	102.19	119.70
4	L	820	U	OP1-P-O3'	14.59	137.30	105.20
5	M	426	U	OP2-P-O3'	-14.59	73.11	105.20
4	L	601	U	P-O3'-C3'	-14.58	102.20	119.70
6	N	406	U	P-O3'-C3'	-14.58	102.20	119.70
3	K	120	A	OP1-P-O3'	-14.57	73.14	105.20
4	L	674	U	P-O3'-C3'	-14.57	102.21	119.70
3	K	81	A	OP2-P-O3'	14.57	137.26	105.20
5	M	359	U	O3'-P-O5'	14.57	131.68	104.00
2	J	41	A	OP2-P-O3'	-14.56	73.16	105.20
4	L	471	U	OP2-P-O3'	-14.56	73.16	105.20
6	N	426	U	O3'-P-O5'	-14.56	76.33	104.00
5	M	369	U	O3'-P-O5'	14.56	131.66	104.00
4	L	671	U	O3'-P-O5'	-14.55	76.35	104.00
3	K	128	A	P-O3'-C3'	-14.55	102.24	119.70
5	M	338	U	P-O3'-C3'	-14.52	102.28	119.70
4	L	558	U	OP1-P-O3'	-14.51	73.28	105.20
1	I	127	A	OP2-P-O3'	14.50	137.11	105.20
6	N	430	U	O3'-P-O5'	-14.50	76.45	104.00
6	N	526	U	P-O3'-C3'	-14.48	102.32	119.70
2	J	42	A	OP2-P-O3'	14.47	137.04	105.20
3	K	167	A	O3'-P-O5'	-14.47	76.51	104.00
1	I	64	A	O3'-P-O5'	-14.46	76.52	104.00
1	I	359	A	P-O3'-C3'	-14.46	102.34	119.70
4	L	734	U	O3'-P-O5'	-14.46	76.53	104.00
1	I	294	A	P-O3'-C3'	-14.46	102.35	119.70
5	M	502	U	O3'-P-O5'	14.45	131.46	104.00
4	L	424	U	O3'-P-O5'	-14.45	76.55	104.00
4	L	756	U	P-O3'-C3'	-14.44	102.37	119.70
1	I	286	A	OP2-P-O3'	14.44	136.96	105.20
4	L	800	U	P-O3'-C3'	-14.44	102.38	119.70
1	I	311	A	P-O3'-C3'	-14.43	102.38	119.70
2	J	11	A	O3'-P-O5'	-14.43	76.59	104.00
1	I	118	A	P-O3'-C3'	-14.42	102.39	119.70
1	I	40	A	O3'-P-O5'	14.42	131.40	104.00
4	L	442	U	OP2-P-O3'	-14.42	73.47	105.20
6	N	315	U	O3'-P-O5'	-14.42	76.60	104.00
3	K	85	A	P-O3'-C3'	-14.42	102.40	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	189	A	OP2-P-O3'	14.41	136.91	105.20
5	M	397	U	O3'-P-O5'	-14.41	76.62	104.00
5	M	546	U	P-O3'-C3'	-14.39	102.43	119.70
2	J	113	A	P-O3'-C3'	-14.38	102.44	119.70
4	L	649	U	OP2-P-O3'	14.38	136.82	105.20
3	K	228	A	P-O3'-C3'	14.37	136.94	119.70
5	M	429	U	O3'-P-O5'	-14.37	76.70	104.00
6	N	302	U	O3'-P-O5'	-14.36	76.71	104.00
1	I	12	A	OP2-P-O3'	14.35	136.77	105.20
2	J	65	A	P-O3'-C3'	-14.35	102.48	119.70
1	I	133	A	O3'-P-O5'	-14.34	76.76	104.00
1	I	69	A	OP2-P-O3'	14.33	136.73	105.20
6	N	406	U	OP2-P-O3'	14.32	136.71	105.20
6	N	527	U	O3'-P-O5'	-14.32	76.79	104.00
4	L	585	U	OP2-P-O3'	14.31	136.68	105.20
4	L	635	U	OP2-P-O3'	14.30	136.67	105.20
5	M	510	U	OP2-P-O3'	14.30	136.67	105.20
4	L	695	U	O3'-P-O5'	14.29	131.15	104.00
3	K	12	A	P-O3'-C3'	14.28	136.84	119.70
1	I	17	A	O3'-P-O5'	14.28	131.14	104.00
1	I	196	A	P-O3'-C3'	-14.28	102.56	119.70
5	M	540	U	P-O3'-C3'	-14.28	102.57	119.70
4	L	782	U	O3'-P-O5'	14.27	131.11	104.00
4	L	532	U	OP1-P-O3'	-14.27	73.81	105.20
1	I	102	A	OP1-P-O3'	14.26	136.57	105.20
5	M	506	U	O3'-P-O5'	14.26	131.09	104.00
1	I	195	A	P-O3'-C3'	-14.24	102.61	119.70
4	L	586	U	P-O3'-C3'	-14.24	102.61	119.70
1	I	264	A	O3'-P-O5'	14.24	131.05	104.00
4	L	582	U	O3'-P-O5'	14.24	131.05	104.00
1	I	273	A	O3'-P-O5'	-14.22	76.98	104.00
5	M	317	U	P-O3'-C3'	-14.22	102.63	119.70
4	L	742	U	O3'-P-O5'	14.21	131.00	104.00
2	J	151	A	OP2-P-O3'	14.21	136.46	105.20
6	N	311	U	P-O3'-C3'	-14.20	102.66	119.70
5	M	414	U	OP2-P-O3'	-14.18	74.00	105.20
4	L	684	U	OP2-P-O3'	-14.18	74.01	105.20
1	I	173	A	P-O3'-C3'	-14.17	102.70	119.70
2	J	84	A	OP2-P-O3'	14.16	136.35	105.20
3	K	98	A	OP2-P-O3'	14.16	136.35	105.20
3	K	7	A	P-O3'-C3'	-14.15	102.72	119.70
4	L	773	U	O3'-P-O5'	14.15	130.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	326	U	P-O3'-C3'	-14.15	102.71	119.70
5	M	455	U	OP2-P-O3'	14.15	136.34	105.20
6	N	326	U	O3'-P-O5'	-14.15	77.11	104.00
4	L	456	U	OP2-P-O3'	-14.14	74.08	105.20
6	N	449	U	P-O3'-C3'	-14.14	102.73	119.70
1	I	100	A	OP2-P-O3'	14.14	136.31	105.20
2	J	38	A	P-O3'-C3'	-14.13	102.74	119.70
4	L	471	U	O3'-P-O5'	14.13	130.85	104.00
1	I	322	A	O3'-P-O5'	-14.13	77.16	104.00
4	L	705	U	OP1-P-O3'	-14.12	74.13	105.20
1	I	281	A	P-O3'-C3'	-14.11	102.77	119.70
3	K	38	A	O3'-P-O5'	14.11	130.81	104.00
4	L	788	U	O3'-P-O5'	14.11	130.81	104.00
3	K	202	A	O3'-P-O5'	-14.11	77.20	104.00
1	I	103	A	OP2-P-O3'	-14.11	74.17	105.20
1	I	90	A	P-O3'-C3'	-14.10	102.78	119.70
2	J	230	A	OP2-P-O3'	14.09	136.20	105.20
5	M	493	U	OP2-P-O3'	-14.09	74.21	105.20
6	N	306	U	O3'-P-O5'	-14.09	77.24	104.00
6	N	408	U	O3'-P-O5'	14.08	130.75	104.00
1	I	251	A	P-O3'-C3'	-14.07	102.81	119.70
1	I	263	A	O3'-P-O5'	14.07	130.74	104.00
4	L	525	U	P-O3'-C3'	-14.07	102.81	119.70
4	L	717	U	OP1-P-O3'	14.07	136.16	105.20
4	L	515	U	O3'-P-O5'	-14.06	77.28	104.00
6	N	401	U	OP2-P-O3'	14.06	136.14	105.20
1	I	260	A	OP2-P-O3'	14.06	136.13	105.20
6	N	435	U	O3'-P-O5'	14.06	130.71	104.00
2	J	182	A	OP2-P-O3'	14.05	136.11	105.20
4	L	456	U	O3'-P-O5'	14.05	130.69	104.00
6	N	364	U	P-O3'-C3'	-14.04	102.85	119.70
3	K	237	A	OP1-P-O3'	14.03	136.07	105.20
6	N	458	U	P-O3'-C3'	14.03	136.54	119.70
4	L	622	U	OP2-P-O3'	14.03	136.06	105.20
4	L	820	U	P-O3'-C3'	14.03	136.53	119.70
2	J	45	A	O3'-P-O5'	14.02	130.65	104.00
5	M	534	U	O3'-P-O5'	14.02	130.64	104.00
1	I	243	A	O3'-P-O5'	-14.02	77.36	104.00
5	M	374	U	P-O3'-C3'	-14.02	102.88	119.70
4	L	698	U	OP2-P-O3'	14.00	136.01	105.20
5	M	290	U	OP2-P-O3'	14.00	136.01	105.20
5	M	423	U	OP2-P-O3'	-14.00	74.40	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	199	A	O3'-P-O5'	-14.00	77.40	104.00
4	L	795	U	P-O3'-C3'	-13.99	102.92	119.70
5	M	479	U	OP2-P-O3'	-13.99	74.43	105.20
4	L	474	U	P-O3'-C3'	-13.98	102.92	119.70
4	L	627	U	P-O3'-C3'	-13.98	102.92	119.70
5	M	320	U	OP2-P-O3'	13.98	135.95	105.20
5	M	353	U	P-O3'-C3'	-13.98	102.93	119.70
6	N	447	U	P-O3'-C3'	-13.96	102.94	119.70
1	I	229	A	OP2-P-O3'	13.96	135.90	105.20
5	M	425	U	P-O3'-C3'	-13.95	102.96	119.70
4	L	420	U	OP1-P-O3'	13.94	135.87	105.20
1	I	339	A	P-O3'-C3'	-13.93	102.98	119.70
5	M	366	U	P-O3'-C3'	-13.92	102.99	119.70
4	L	596	U	P-O3'-C3'	-13.92	102.99	119.70
6	N	476	U	OP2-P-O3'	13.92	135.83	105.20
5	M	507	U	O3'-P-O5'	13.92	130.45	104.00
5	M	396	U	P-O3'-C3'	-13.91	103.00	119.70
1	I	403	A	O3'-P-O5'	-13.90	77.59	104.00
5	M	324	U	OP2-P-O3'	13.89	135.77	105.20
5	M	530	U	O3'-P-O5'	-13.89	77.60	104.00
4	L	606	U	P-O3'-C3'	-13.89	103.03	119.70
5	M	316	U	P-O3'-C3'	-13.89	103.03	119.70
5	M	445	U	O3'-P-O5'	13.89	130.38	104.00
4	L	599	U	P-O3'-C3'	-13.88	103.05	119.70
1	I	323	A	OP1-P-O3'	-13.87	74.68	105.20
2	J	148	A	P-O3'-C3'	-13.87	103.06	119.70
4	L	776	U	O3'-P-O5'	-13.86	77.66	104.00
3	K	172	A	OP2-P-O3'	-13.86	74.71	105.20
6	N	478	U	P-O3'-C3'	-13.85	103.08	119.70
2	J	204	A	OP2-P-O3'	13.84	135.64	105.20
6	N	444	U	O3'-P-O5'	13.84	130.29	104.00
1	I	170	A	O3'-P-O5'	13.83	130.28	104.00
4	L	799	U	O3'-P-O5'	13.83	130.27	104.00
5	M	537	U	OP2-P-O3'	13.83	135.62	105.20
3	K	78	A	P-O3'-C3'	-13.82	103.12	119.70
6	N	400	U	OP2-P-O3'	13.82	135.59	105.20
2	J	109	A	O3'-P-O5'	13.81	130.25	104.00
4	L	699	U	O3'-P-O5'	-13.81	77.75	104.00
3	K	147	A	O3'-P-O5'	13.80	130.23	104.00
4	L	588	U	O3'-P-O5'	13.80	130.23	104.00
5	M	409	U	O3'-P-O5'	13.80	130.23	104.00
3	K	253	A	OP1-P-O3'	-13.80	74.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	371	U	OP2-P-O3'	13.80	135.55	105.20
4	L	476	U	P-O3'-C3'	-13.79	103.14	119.70
3	K	150	A	OP2-P-O3'	-13.78	74.88	105.20
1	I	143	A	OP1-P-O3'	13.77	135.50	105.20
3	K	45	A	OP2-P-O3'	13.76	135.47	105.20
3	K	92	A	OP2-P-O3'	13.76	135.47	105.20
3	K	118	A	OP1-P-O3'	-13.75	74.95	105.20
3	K	219	A	P-O3'-C3'	13.75	136.20	119.70
1	I	104	A	OP2-P-O3'	-13.74	74.96	105.20
1	I	38	A	O3'-P-O5'	13.73	130.09	104.00
1	I	254	A	OP2-P-O3'	13.72	135.39	105.20
1	I	264	A	P-O3'-C3'	-13.72	103.24	119.70
6	N	295	U	O3'-P-O5'	13.72	130.07	104.00
5	M	480	U	O3'-P-O5'	13.71	130.04	104.00
5	M	517	U	P-O3'-C3'	-13.70	103.26	119.70
2	J	150	A	O3'-P-O5'	13.70	130.02	104.00
6	N	313	U	O3'-P-O5'	-13.69	77.99	104.00
1	I	301	A	P-O3'-C3'	-13.68	103.28	119.70
2	J	266	A	P-O3'-C3'	-13.67	103.29	119.70
1	I	226	A	P-O3'-C3'	-13.67	103.30	119.70
4	L	765	U	OP1-P-O3'	-13.67	75.12	105.20
4	L	638	U	OP1-P-O3'	-13.66	75.14	105.20
4	L	459	U	O3'-P-O5'	-13.66	78.05	104.00
5	M	291	U	P-O3'-C3'	-13.65	103.31	119.70
5	M	478	U	O3'-P-O5'	13.65	129.94	104.00
5	M	352	U	O3'-P-O5'	13.65	129.94	104.00
4	L	507	U	P-O3'-C3'	-13.65	103.32	119.70
5	M	306	U	P-O3'-C3'	-13.65	103.32	119.70
4	L	771	U	P-O3'-C3'	-13.64	103.33	119.70
1	I	213	A	P-O3'-C3'	-13.64	103.34	119.70
4	L	631	U	O3'-P-O5'	13.63	129.90	104.00
5	M	346	U	P-O3'-C3'	-13.63	103.34	119.70
2	J	253	A	P-O3'-C3'	-13.63	103.35	119.70
5	M	295	U	OP2-P-O3'	13.63	135.18	105.20
4	L	738	U	O3'-P-O5'	13.62	129.88	104.00
6	N	357	U	OP2-P-O3'	-13.62	75.24	105.20
5	M	322	U	O3'-P-O5'	-13.61	78.13	104.00
3	K	73	A	O3'-P-O5'	-13.61	78.15	104.00
3	K	74	A	OP2-P-O3'	13.61	135.14	105.20
3	K	169	A	OP2-P-O3'	13.61	135.13	105.20
4	L	715	U	OP1-P-O3'	13.61	135.13	105.20
2	J	30	A	P-O3'-C3'	-13.58	103.40	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	333	U	OP2-P-O3'	13.58	135.07	105.20
3	K	208	A	OP1-P-O3'	13.57	135.06	105.20
4	L	487	U	P-O3'-C3'	-13.57	103.41	119.70
2	J	94	A	OP2-P-O3'	13.57	135.05	105.20
6	N	425	U	OP2-P-O3'	13.56	135.04	105.20
4	L	819	U	O3'-P-O5'	13.56	129.76	104.00
5	M	417	U	P-O3'-C3'	-13.56	103.43	119.70
5	M	531	U	OP1-P-O3'	-13.56	75.37	105.20
3	K	62	A	O3'-P-O5'	13.56	129.76	104.00
1	I	16	A	OP2-P-O3'	13.55	135.01	105.20
1	I	101	A	P-O3'-C3'	13.54	135.95	119.70
4	L	719	U	O3'-P-O5'	13.54	129.73	104.00
4	L	739	U	P-O3'-C3'	-13.54	103.45	119.70
2	J	132	A	P-O3'-C3'	-13.54	103.45	119.70
2	J	228	A	P-O3'-C3'	-13.54	103.45	119.70
1	I	348	A	OP2-P-O3'	13.54	134.98	105.20
5	M	519	U	OP2-P-O3'	13.53	134.97	105.20
4	L	587	U	P-O3'-C3'	-13.53	103.46	119.70
5	M	523	U	OP2-P-O3'	-13.53	75.44	105.20
1	I	136	A	OP1-P-O3'	-13.52	75.45	105.20
4	L	548	U	P-O3'-C3'	-13.52	103.48	119.70
4	L	794	U	P-O3'-C3'	-13.52	103.48	119.70
1	I	119	A	OP1-P-O3'	-13.51	75.47	105.20
4	L	535	U	P-O3'-C3'	-13.51	103.49	119.70
1	I	315	A	O3'-P-O5'	-13.51	78.33	104.00
1	I	21	A	P-O3'-C3'	-13.50	103.50	119.70
1	I	203	A	P-O3'-C3'	-13.50	103.50	119.70
5	M	333	U	OP1-P-O3'	-13.50	75.50	105.20
5	M	423	U	O3'-P-O5'	13.49	129.64	104.00
1	I	149	A	O3'-P-O5'	13.49	129.63	104.00
4	L	523	U	OP2-P-O3'	-13.46	75.58	105.20
4	L	785	U	O3'-P-O5'	13.46	129.58	104.00
5	M	462	U	P-O3'-C3'	-13.46	103.55	119.70
6	N	523	U	O3'-P-O5'	13.46	129.57	104.00
1	I	147	A	OP2-P-O3'	13.46	134.80	105.20
5	M	332	U	P-O3'-C3'	-13.46	103.55	119.70
5	M	496	U	P-O3'-C3'	-13.45	103.56	119.70
2	J	209	A	OP2-P-O3'	13.45	134.79	105.20
1	I	326	A	P-O3'-C3'	-13.45	103.56	119.70
4	L	658	U	P-O3'-C3'	-13.45	103.57	119.70
2	J	221	A	P-O3'-C3'	-13.43	103.58	119.70
4	L	595	U	OP2-P-O3'	13.43	134.75	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	442	U	O3'-P-O5'	13.43	129.53	104.00
2	J	268	A	O3'-P-O5'	13.43	129.51	104.00
4	L	441	U	OP2-P-O3'	-13.42	75.67	105.20
4	L	740	U	OP2-P-O3'	13.42	134.71	105.20
4	L	438	U	OP2-P-O3'	-13.41	75.69	105.20
1	I	351	A	O3'-P-O5'	13.40	129.45	104.00
4	L	544	U	O3'-P-O5'	-13.39	78.55	104.00
5	M	539	U	O3'-P-O5'	13.39	129.44	104.00
1	I	52	A	P-O3'-C3'	-13.38	103.64	119.70
2	J	257	A	OP2-P-O3'	13.38	134.63	105.20
5	M	509	U	P-O3'-C3'	-13.38	103.65	119.70
4	L	747	U	OP2-P-O3'	13.37	134.62	105.20
1	I	276	A	O3'-P-O5'	-13.37	78.60	104.00
4	L	818	U	O3'-P-O5'	13.37	129.40	104.00
3	K	83	A	O3'-P-O5'	13.36	129.39	104.00
1	I	19	A	O3'-P-O5'	-13.36	78.62	104.00
2	J	205	A	O3'-P-O5'	-13.36	78.62	104.00
2	J	71	A	P-O3'-C3'	-13.36	103.67	119.70
1	I	109	A	OP1-P-O3'	13.34	134.54	105.20
4	L	743	U	P-O3'-C3'	-13.34	103.70	119.70
2	J	172	A	O3'-P-O5'	-13.33	78.67	104.00
4	L	472	U	O3'-P-O5'	13.33	129.33	104.00
5	M	459	U	P-O3'-C3'	-13.33	103.70	119.70
1	I	400	A	OP1-P-O3'	13.32	134.51	105.20
1	I	234	A	P-O3'-C3'	-13.32	103.72	119.70
5	M	483	U	OP2-P-O3'	13.32	134.50	105.20
5	M	536	U	OP2-P-O3'	13.32	134.50	105.20
1	I	107	A	P-O3'-C3'	-13.31	103.72	119.70
4	L	550	U	P-O3'-C3'	-13.30	103.73	119.70
5	M	304	U	OP2-P-O3'	-13.30	75.94	105.20
2	J	123	A	OP2-P-O3'	13.29	134.45	105.20
4	L	509	U	OP2-P-O3'	13.29	134.45	105.20
4	L	633	U	O3'-P-O5'	13.29	129.26	104.00
1	I	102	A	P-O3'-C3'	13.29	135.65	119.70
2	J	70	A	OP1-P-O3'	-13.29	75.96	105.20
4	L	662	U	OP2-P-O3'	-13.29	75.97	105.20
2	J	143	A	P-O3'-C3'	-13.29	103.75	119.70
3	K	186	A	P-O3'-C3'	-13.28	103.76	119.70
4	L	478	U	OP2-P-O3'	13.28	134.41	105.20
5	M	331	U	P-O3'-C3'	-13.28	103.77	119.70
2	J	116	A	O3'-P-O5'	13.28	129.22	104.00
4	L	749	U	P-O3'-C3'	-13.27	103.77	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	425	U	OP2-P-O3'	13.27	134.39	105.20
6	N	344	U	OP2-P-O3'	-13.27	76.01	105.20
3	K	145	A	P-O3'-C3'	13.27	135.62	119.70
1	I	113	A	OP2-P-O3'	13.26	134.37	105.20
5	M	479	U	O3'-P-O5'	13.26	129.19	104.00
4	L	576	U	OP1-P-O3'	-13.26	76.03	105.20
2	J	56	A	OP1-P-O3'	-13.25	76.04	105.20
1	I	116	A	O3'-P-O5'	13.25	129.17	104.00
2	J	245	A	P-O3'-C3'	-13.25	103.80	119.70
4	L	548	U	OP2-P-O3'	13.24	134.34	105.20
4	L	486	U	P-O3'-C3'	-13.23	103.82	119.70
2	J	80	A	O3'-P-O5'	-13.23	78.87	104.00
5	M	537	U	OP1-P-O3'	-13.22	76.12	105.20
3	K	82	A	P-O3'-C3'	-13.21	103.84	119.70
4	L	469	U	P-O3'-C3'	-13.21	103.85	119.70
6	N	434	U	OP2-P-O3'	13.20	134.23	105.20
4	L	435	U	OP2-P-O3'	13.18	134.20	105.20
2	J	93	A	O3'-P-O5'	-13.18	78.96	104.00
2	J	32	A	OP2-P-O3'	13.18	134.19	105.20
3	K	249	A	P-O3'-C3'	-13.18	103.89	119.70
3	K	237	A	O3'-P-O5'	-13.18	78.97	104.00
3	K	192	A	OP1-P-O3'	13.17	134.18	105.20
6	N	397	U	P-O3'-C3'	-13.17	103.89	119.70
5	M	403	U	P-O3'-C3'	-13.17	103.89	119.70
4	L	647	U	OP2-P-O3'	13.16	134.16	105.20
5	M	295	U	O3'-P-O5'	-13.16	78.99	104.00
5	M	363	U	OP2-P-O3'	-13.15	76.26	105.20
1	I	185	A	P-O3'-C3'	-13.14	103.93	119.70
1	I	342	A	OP1-P-O3'	-13.14	76.29	105.20
3	K	238	A	OP1-P-O3'	13.14	134.11	105.20
4	L	796	U	O3'-P-O5'	13.14	128.97	104.00
4	L	481	U	P-O3'-C3'	-13.14	103.93	119.70
2	J	241	A	P-O3'-C3'	-13.14	103.94	119.70
6	N	278	U	OP1-P-O3'	-13.14	76.30	105.20
2	J	249	A	P-O3'-C3'	-13.13	103.94	119.70
6	N	312	U	P-O3'-C3'	-13.13	103.94	119.70
2	J	132	A	O3'-P-O5'	-13.13	79.06	104.00
3	K	163	A	OP2-P-O3'	13.12	134.06	105.20
4	L	481	U	O3'-P-O5'	13.11	128.92	104.00
2	J	80	A	OP2-P-O3'	13.11	134.04	105.20
1	I	356	A	P-O3'-C3'	-13.11	103.97	119.70
4	L	734	U	P-O3'-C3'	-13.09	103.99	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	822	U	OP2-P-O3'	-13.08	76.43	105.20
2	J	226	A	OP2-P-O3'	-13.07	76.43	105.20
3	K	108	A	O3'-P-O5'	-13.07	79.17	104.00
2	J	257	A	O3'-P-O5'	-13.06	79.18	104.00
3	K	30	A	OP2-P-O3'	-13.06	76.46	105.20
6	N	384	U	OP2-P-O3'	-13.06	76.47	105.20
6	N	473	U	OP2-P-O3'	13.06	133.93	105.20
2	J	130	A	P-O3'-C3'	-13.05	104.03	119.70
2	J	131	A	O3'-P-O5'	-13.05	79.20	104.00
3	K	111	A	O3'-P-O5'	13.05	128.80	104.00
1	I	58	A	OP1-P-O3'	13.05	133.91	105.20
1	I	77	A	OP2-P-O3'	13.05	133.91	105.20
1	I	169	A	O3'-P-O5'	13.05	128.80	104.00
1	I	187	A	P-O3'-C3'	-13.05	104.04	119.70
1	I	132	A	O3'-P-O5'	-13.04	79.22	104.00
6	N	439	U	OP2-P-O3'	13.04	133.88	105.20
5	M	540	U	O3'-P-O5'	13.04	128.77	104.00
3	K	75	A	P-O3'-C3'	-13.03	104.06	119.70
4	L	673	U	P-O3'-C3'	-13.03	104.06	119.70
4	L	733	U	P-O3'-C3'	-13.02	104.08	119.70
3	K	49	A	O3'-P-O5'	13.02	128.73	104.00
6	N	327	U	OP2-P-O3'	13.01	133.83	105.20
6	N	409	U	P-O3'-C3'	-13.01	104.08	119.70
2	J	107	A	P-O3'-C3'	-13.01	104.09	119.70
2	J	4	A	OP2-P-O3'	-13.00	76.59	105.20
1	I	204	A	O3'-P-O5'	12.99	128.69	104.00
4	L	533	U	OP2-P-O3'	12.99	133.77	105.20
4	L	524	U	P-O3'-C3'	-12.98	104.12	119.70
2	J	117	A	OP2-P-O3'	-12.98	76.64	105.20
2	J	143	A	O3'-P-O5'	12.98	128.66	104.00
5	M	364	U	P-O3'-C3'	-12.98	104.13	119.70
5	M	495	U	OP1-P-O3'	-12.98	76.65	105.20
4	L	501	U	P-O3'-C3'	-12.97	104.13	119.70
1	I	259	A	OP2-P-O3'	12.97	133.74	105.20
4	L	575	U	P-O3'-C3'	-12.96	104.14	119.70
4	L	550	U	O3'-P-O5'	12.96	128.63	104.00
1	I	75	A	OP2-P-O3'	12.95	133.69	105.20
1	I	296	A	O3'-P-O5'	-12.94	79.41	104.00
2	J	30	A	OP2-P-O3'	12.94	133.68	105.20
4	L	680	U	OP1-P-O3'	12.94	133.67	105.20
1	I	135	A	OP2-P-O3'	12.94	133.66	105.20
1	I	59	A	P-O3'-C3'	-12.93	104.19	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	156	A	P-O3'-C3'	-12.92	104.19	119.70
1	I	394	A	O3'-P-O5'	-12.91	79.47	104.00
2	J	26	A	P-O3'-C3'	-12.91	104.21	119.70
4	L	815	U	OP2-P-O3'	12.91	133.59	105.20
4	L	783	U	O3'-P-O5'	12.90	128.52	104.00
3	K	124	A	O3'-P-O5'	12.90	128.51	104.00
6	N	495	U	OP2-P-O3'	-12.90	76.82	105.20
3	K	126	A	P-O3'-C3'	-12.90	104.22	119.70
1	I	86	A	OP2-P-O3'	12.89	133.56	105.20
1	I	363	A	O3'-P-O5'	-12.89	79.51	104.00
4	L	434	U	O3'-P-O5'	-12.89	79.51	104.00
2	J	255	A	P-O3'-C3'	-12.89	104.24	119.70
6	N	427	U	OP2-P-O3'	12.87	133.52	105.20
1	I	166	A	P-O3'-C3'	-12.87	104.26	119.70
1	I	268	A	OP1-P-O3'	-12.86	76.90	105.20
1	I	270	A	P-O3'-C3'	-12.86	104.26	119.70
6	N	304	U	O3'-P-O5'	-12.86	79.57	104.00
6	N	390	U	O3'-P-O5'	12.86	128.43	104.00
1	I	141	A	O3'-P-O5'	-12.85	79.58	104.00
1	I	324	A	P-O3'-C3'	-12.85	104.28	119.70
5	M	478	U	OP2-P-O3'	-12.85	76.94	105.20
5	M	397	U	OP2-P-O3'	12.85	133.46	105.20
2	J	160	A	P-O3'-C3'	-12.84	104.29	119.70
3	K	94	A	O3'-P-O5'	-12.83	79.62	104.00
1	I	2	A	OP2-P-O3'	-12.82	76.99	105.20
3	K	201	A	O3'-P-O5'	-12.82	79.65	104.00
4	L	683	U	OP1-P-O3'	12.82	133.40	105.20
1	I	354	A	OP2-P-O3'	12.81	133.38	105.20
3	K	145	A	OP2-P-O3'	-12.81	77.02	105.20
3	K	217	A	O3'-P-O5'	-12.81	79.66	104.00
6	N	382	U	OP2-P-O3'	-12.81	77.02	105.20
1	I	85	A	P-O3'-C3'	-12.80	104.33	119.70
1	I	213	A	OP2-P-O3'	12.81	133.37	105.20
6	N	435	U	OP2-P-O3'	-12.81	77.03	105.20
1	I	176	A	OP2-P-O3'	-12.80	77.04	105.20
2	J	205	A	OP1-P-O3'	-12.78	77.08	105.20
4	L	437	U	O3'-P-O5'	12.78	128.28	104.00
1	I	68	A	OP1-P-O3'	-12.78	77.09	105.20
4	L	736	U	O3'-P-O5'	12.78	128.27	104.00
5	M	319	U	OP1-P-O3'	-12.77	77.10	105.20
6	N	324	U	O3'-P-O5'	-12.77	79.73	104.00
4	L	655	U	P-O3'-C3'	-12.77	104.38	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	130	A	P-O3'-C3'	-12.76	104.39	119.70
4	L	583	U	O3'-P-O5'	-12.76	79.76	104.00
6	N	455	U	OP2-P-O3'	12.76	133.26	105.20
5	M	482	U	O3'-P-O5'	12.75	128.22	104.00
6	N	442	U	OP1-P-O3'	-12.74	77.17	105.20
1	I	20	A	OP2-P-O3'	12.74	133.23	105.20
2	J	144	A	OP1-P-O3'	-12.74	77.17	105.20
1	I	212	A	P-O3'-C3'	-12.74	104.42	119.70
6	N	331	U	O3'-P-O5'	-12.73	79.81	104.00
5	M	349	U	O3'-P-O5'	-12.73	79.82	104.00
2	J	168	A	P-O3'-C3'	12.72	134.97	119.70
3	K	99	A	OP1-P-O3'	-12.72	77.21	105.20
2	J	78	A	P-O3'-C3'	-12.72	104.44	119.70
6	N	459	U	OP1-P-O3'	12.72	133.18	105.20
2	J	208	A	P-O3'-C3'	-12.71	104.44	119.70
4	L	733	U	O3'-P-O5'	12.70	128.13	104.00
4	L	503	U	P-O3'-C3'	-12.69	104.47	119.70
5	M	405	U	O3'-P-O5'	-12.69	79.89	104.00
6	N	454	U	P-O3'-C3'	-12.69	104.48	119.70
2	J	68	A	OP2-P-O3'	12.68	133.10	105.20
4	L	624	U	O3'-P-O5'	12.68	128.10	104.00
1	I	102	A	O3'-P-O5'	-12.68	79.91	104.00
4	L	562	U	O3'-P-O5'	12.68	128.09	104.00
4	L	780	U	OP1-P-O3'	-12.68	77.31	105.20
2	J	87	A	O3'-P-O5'	12.67	128.07	104.00
5	M	330	U	P-O3'-C3'	-12.66	104.50	119.70
3	K	76	A	OP2-P-O3'	12.66	133.04	105.20
6	N	386	U	O3'-P-O5'	-12.66	79.95	104.00
5	M	460	U	O3'-P-O5'	-12.65	79.97	104.00
4	L	557	U	O3'-P-O5'	-12.64	79.97	104.00
3	K	78	A	OP2-P-O3'	12.64	133.01	105.20
6	N	319	U	O3'-P-O5'	-12.64	79.98	104.00
3	K	140	A	P-O3'-C3'	-12.63	104.54	119.70
1	I	219	A	OP2-P-O3'	-12.63	77.41	105.20
2	J	37	A	OP1-P-O3'	-12.63	77.41	105.20
3	K	71	A	OP1-P-O3'	12.63	132.99	105.20
4	L	540	U	O3'-P-O5'	12.63	128.00	104.00
1	I	27	A	P-O3'-C3'	-12.62	104.56	119.70
4	L	642	U	OP1-P-O3'	-12.61	77.46	105.20
2	J	147	A	O3'-P-O5'	12.60	127.94	104.00
5	M	351	U	O3'-P-O5'	12.60	127.94	104.00
2	J	179	A	P-O3'-C3'	-12.59	104.60	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	110	A	P-O3'-C3'	-12.58	104.60	119.70
4	L	418	U	OP2-P-O3'	-12.58	77.52	105.20
4	L	639	U	OP2-P-O3'	12.58	132.88	105.20
2	J	258	A	OP2-P-O3'	12.57	132.86	105.20
3	K	211	A	OP1-P-O3'	12.57	132.86	105.20
1	I	21	A	OP2-P-O3'	12.57	132.85	105.20
3	K	198	A	O3'-P-O5'	-12.57	80.12	104.00
4	L	578	U	P-O3'-C3'	-12.55	104.64	119.70
4	L	509	U	O3'-P-O5'	-12.55	80.16	104.00
6	N	351	U	P-O3'-C3'	-12.55	104.64	119.70
1	I	244	A	O3'-P-O5'	12.54	127.82	104.00
2	J	41	A	P-O3'-C3'	12.53	134.74	119.70
3	K	201	A	OP1-P-O3'	12.53	132.77	105.20
5	M	466	U	O3'-P-O5'	-12.53	80.19	104.00
4	L	757	U	OP2-P-O3'	12.53	132.76	105.20
2	J	28	A	OP2-P-O3'	12.52	132.75	105.20
5	M	499	U	P-O3'-C3'	-12.52	104.67	119.70
4	L	695	U	OP1-P-O3'	-12.52	77.66	105.20
2	J	4	A	P-O3'-C3'	12.52	134.72	119.70
5	M	420	U	P-O3'-C3'	-12.51	104.69	119.70
3	K	52	A	O3'-P-O5'	12.49	127.73	104.00
1	I	251	A	OP2-P-O3'	12.48	132.66	105.20
3	K	61	A	OP2-P-O3'	-12.48	77.74	105.20
4	L	730	U	O3'-P-O5'	12.48	127.71	104.00
1	I	371	A	P-O3'-C3'	-12.47	104.74	119.70
4	L	500	U	OP2-P-O3'	12.47	132.63	105.20
6	N	464	U	O3'-P-O5'	12.47	127.69	104.00
1	I	170	A	OP2-P-O3'	-12.46	77.79	105.20
5	M	284	U	O3'-P-O5'	12.46	127.67	104.00
5	M	314	U	O3'-P-O5'	12.46	127.67	104.00
3	K	26	A	O3'-P-O5'	12.46	127.67	104.00
3	K	137	A	P-O3'-C3'	-12.46	104.75	119.70
2	J	265	A	OP2-P-O3'	-12.45	77.80	105.20
3	K	80	A	OP2-P-O3'	12.45	132.59	105.20
6	N	410	U	OP2-P-O3'	-12.43	77.85	105.20
1	I	250	A	OP2-P-O3'	12.43	132.53	105.20
4	L	510	U	O3'-P-O5'	-12.41	80.42	104.00
6	N	312	U	OP2-P-O3'	12.41	132.50	105.20
1	I	91	A	OP1-P-O3'	-12.40	77.92	105.20
1	I	313	A	P-O3'-C3'	-12.40	104.82	119.70
4	L	461	U	O3'-P-O5'	-12.38	80.47	104.00
6	N	431	U	OP1-P-O3'	-12.38	77.97	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	425	U	O3'-P-O5'	12.37	127.50	104.00
5	M	307	U	O3'-P-O5'	12.36	127.48	104.00
6	N	359	U	P-O3'-C3'	-12.36	104.87	119.70
4	L	732	U	P-O3'-C3'	-12.35	104.88	119.70
4	L	777	U	O3'-P-O5'	-12.35	80.53	104.00
4	L	779	U	OP1-P-O3'	-12.35	78.03	105.20
4	L	488	U	O3'-P-O5'	-12.35	80.54	104.00
1	I	144	A	O3'-P-O5'	-12.35	80.54	104.00
6	N	371	U	P-O3'-C3'	-12.35	104.89	119.70
1	I	248	A	P-O3'-C3'	-12.34	104.89	119.70
4	L	526	U	OP2-P-O3'	12.34	132.35	105.20
4	L	661	U	O3'-P-O5'	12.34	127.45	104.00
1	I	228	A	OP2-P-O3'	12.34	132.34	105.20
3	K	86	A	O3'-P-O5'	12.33	127.44	104.00
4	L	526	U	O3'-P-O5'	-12.33	80.57	104.00
1	I	95	A	O3'-P-O5'	12.32	127.41	104.00
6	N	449	U	O3'-P-O5'	-12.32	80.59	104.00
3	K	25	A	O3'-P-O5'	12.32	127.40	104.00
1	I	197	A	P-O3'-C3'	-12.31	104.93	119.70
4	L	748	U	P-O3'-C3'	-12.31	104.93	119.70
4	L	585	U	P-O3'-C3'	-12.30	104.94	119.70
1	I	362	A	P-O3'-C3'	-12.30	104.94	119.70
4	L	622	U	P-O3'-C3'	-12.30	104.94	119.70
6	N	379	U	O3'-P-O5'	-12.30	80.64	104.00
1	I	25	A	P-O3'-C3'	-12.30	104.94	119.70
3	K	6	A	OP2-P-O3'	12.29	132.24	105.20
4	L	518	U	OP1-P-O3'	-12.29	78.17	105.20
6	N	524	U	O3'-P-O5'	12.29	127.34	104.00
2	J	260	A	P-O3'-C3'	-12.28	104.97	119.70
5	M	494	U	P-O3'-C3'	-12.28	104.97	119.70
3	K	43	A	OP1-P-O3'	12.27	132.20	105.20
3	K	57	A	OP1-P-O3'	12.27	132.19	105.20
2	J	69	A	O3'-P-O5'	-12.26	80.70	104.00
4	L	498	U	O3'-P-O5'	-12.24	80.74	104.00
1	I	204	A	OP2-P-O3'	-12.24	78.28	105.20
3	K	25	A	OP2-P-O3'	-12.24	78.28	105.20
1	I	226	A	O3'-P-O5'	12.23	127.25	104.00
6	N	404	U	P-O3'-C3'	-12.23	105.02	119.70
1	I	188	A	OP2-P-O3'	12.23	132.10	105.20
4	L	709	U	O3'-P-O5'	12.23	127.23	104.00
5	M	482	U	P-O3'-C3'	-12.22	105.03	119.70
3	K	93	A	OP2-P-O3'	12.22	132.09	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	180	A	OP1-P-O3'	-12.21	78.33	105.20
3	K	162	A	O3'-P-O5'	12.21	127.20	104.00
1	I	41	A	O3'-P-O5'	12.21	127.19	104.00
4	L	788	U	P-O3'-C3'	-12.21	105.05	119.70
6	N	395	U	P-O3'-C3'	-12.19	105.07	119.70
2	J	39	A	P-O3'-C3'	-12.19	105.07	119.70
5	M	420	U	O3'-P-O5'	-12.19	80.83	104.00
1	I	235	A	O3'-P-O5'	12.18	127.15	104.00
6	N	454	U	O3'-P-O5'	-12.18	80.85	104.00
2	J	181	A	OP2-P-O3'	-12.18	78.40	105.20
1	I	258	A	OP1-P-O3'	-12.18	78.41	105.20
4	L	737	U	P-O3'-C3'	-12.18	105.09	119.70
2	J	129	A	O3'-P-O5'	-12.17	80.89	104.00
2	J	162	A	O3'-P-O5'	12.16	127.11	104.00
1	I	404	A	OP1-P-O3'	12.15	131.94	105.20
6	N	440	U	OP1-P-O3'	-12.15	78.46	105.20
3	K	159	A	P-O3'-C3'	-12.15	105.12	119.70
1	I	10	A	OP2-P-O3'	-12.14	78.50	105.20
4	L	553	U	OP2-P-O3'	12.14	131.90	105.20
2	J	106	A	OP2-P-O3'	12.13	131.89	105.20
2	J	186	A	OP2-P-O3'	12.13	131.90	105.20
4	L	521	U	OP1-P-O3'	-12.12	78.53	105.20
5	M	439	U	P-O3'-C3'	-12.12	105.15	119.70
4	L	808	U	P-O3'-C3'	-12.12	105.16	119.70
3	K	13	A	OP1-P-O3'	12.11	131.84	105.20
2	J	34	A	OP2-P-O3'	-12.11	78.56	105.20
3	K	141	A	O3'-P-O5'	12.11	127.00	104.00
1	I	299	A	OP2-P-O3'	12.10	131.82	105.20
4	L	597	U	P-O3'-C3'	-12.10	105.18	119.70
5	M	408	U	OP2-P-O3'	12.10	131.82	105.20
1	I	63	A	P-O3'-C3'	-12.09	105.19	119.70
1	I	274	A	O3'-P-O5'	12.09	126.97	104.00
6	N	314	U	O3'-P-O5'	-12.07	81.06	104.00
1	I	327	A	O3'-P-O5'	12.07	126.94	104.00
4	L	494	U	P-O3'-C3'	-12.07	105.22	119.70
1	I	45	A	O3'-P-O5'	12.06	126.92	104.00
5	M	326	U	O3'-P-O5'	12.05	126.89	104.00
5	M	430	U	OP1-P-O3'	12.04	131.70	105.20
4	L	419	U	P-O3'-C3'	12.03	134.13	119.70
5	M	360	U	P-O3'-C3'	-12.03	105.27	119.70
2	J	249	A	OP2-P-O3'	12.01	131.62	105.20
1	I	326	A	OP2-P-O3'	12.00	131.59	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	132	A	P-O3'-C3'	-12.00	105.30	119.70
2	J	235	A	O3'-P-O5'	11.99	126.79	104.00
4	L	644	U	O3'-P-O5'	11.99	126.79	104.00
3	K	237	A	P-O3'-C3'	11.98	134.08	119.70
5	M	300	U	OP2-P-O3'	11.97	131.54	105.20
1	I	202	A	OP2-P-O3'	11.97	131.54	105.20
1	I	137	A	O3'-P-O5'	-11.97	81.26	104.00
4	L	601	U	OP2-P-O3'	11.96	131.51	105.20
6	N	365	U	OP2-P-O3'	-11.95	78.91	105.20
4	L	566	U	OP1-P-O3'	-11.95	78.92	105.20
5	M	414	U	O3'-P-O5'	11.95	126.70	104.00
3	K	79	A	O3'-P-O5'	-11.94	81.32	104.00
1	I	225	A	O3'-P-O5'	-11.93	81.33	104.00
1	I	334	A	O3'-P-O5'	-11.93	81.34	104.00
6	N	292	U	OP1-P-O3'	11.92	131.42	105.20
2	J	144	A	OP2-P-O3'	11.92	131.42	105.20
3	K	5	A	OP2-P-O3'	11.92	131.42	105.20
6	N	396	U	OP2-P-O3'	11.91	131.41	105.20
2	J	27	A	P-O3'-C3'	-11.91	105.41	119.70
3	K	62	A	P-O3'-C3'	-11.91	105.41	119.70
4	L	530	U	OP2-P-O3'	11.91	131.40	105.20
1	I	227	A	P-O3'-C3'	-11.88	105.44	119.70
2	J	99	A	OP2-P-O3'	11.88	131.34	105.20
5	M	458	U	OP1-P-O3'	-11.88	79.06	105.20
4	L	765	U	O3'-P-O5'	-11.88	81.44	104.00
4	L	647	U	O3'-P-O5'	-11.87	81.44	104.00
5	M	448	U	OP2-P-O3'	11.87	131.32	105.20
4	L	467	U	P-O3'-C3'	-11.86	105.46	119.70
4	L	458	U	P-O3'-C3'	-11.86	105.47	119.70
4	L	766	U	OP2-P-O3'	11.85	131.28	105.20
4	L	500	U	OP1-P-O3'	-11.85	79.14	105.20
5	M	285	U	P-O3'-C3'	-11.84	105.49	119.70
1	I	186	A	P-O3'-C3'	-11.84	105.49	119.70
5	M	305	U	O3'-P-O5'	11.84	126.50	104.00
6	N	495	U	P-O3'-C3'	11.84	133.91	119.70
3	K	250	A	OP1-P-O3'	-11.83	79.17	105.20
4	L	465	U	OP2-P-O3'	-11.83	79.18	105.20
1	I	353	A	P-O3'-C3'	-11.82	105.51	119.70
1	I	192	A	OP2-P-O3'	11.82	131.21	105.20
3	K	104	A	P-O3'-C3'	-11.82	105.51	119.70
2	J	173	A	OP1-P-O3'	11.80	131.17	105.20
4	L	538	U	O3'-P-O5'	-11.80	81.57	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	465	U	OP1-P-O3'	-11.80	79.23	105.20
1	I	165	A	P-O3'-C3'	-11.80	105.54	119.70
1	I	188	A	P-O3'-C3'	-11.80	105.54	119.70
2	J	85	A	OP2-P-O3'	-11.80	79.25	105.20
3	K	225	A	O3'-P-O5'	-11.79	81.60	104.00
1	I	235	A	P-O3'-C3'	-11.79	105.56	119.70
4	L	580	U	O3'-P-O5'	11.78	126.38	104.00
6	N	388	U	OP1-P-O3'	11.78	131.12	105.20
6	N	325	U	OP1-P-O3'	11.78	131.11	105.20
2	J	199	A	P-O3'-C3'	-11.78	105.57	119.70
3	K	95	A	OP2-P-O3'	11.77	131.10	105.20
1	I	81	A	P-O3'-C3'	-11.77	105.58	119.70
5	M	475	U	O3'-P-O5'	11.77	126.35	104.00
6	N	381	U	O3'-P-O5'	11.76	126.35	104.00
4	L	577	U	OP2-P-O3'	11.76	131.06	105.20
5	M	485	U	OP1-P-O3'	-11.75	79.35	105.20
2	J	102	A	OP2-P-O3'	11.75	131.05	105.20
4	L	775	U	OP1-P-O3'	-11.74	79.37	105.20
1	I	171	A	OP2-P-O3'	-11.73	79.38	105.20
3	K	166	A	O3'-P-O5'	11.73	126.29	104.00
2	J	156	A	OP2-P-O3'	11.73	131.01	105.20
1	I	230	A	O3'-P-O5'	-11.73	81.72	104.00
6	N	301	U	O3'-P-O5'	-11.72	81.72	104.00
4	L	477	U	OP1-P-O3'	-11.72	79.41	105.20
1	I	142	A	P-O3'-C3'	11.72	133.76	119.70
6	N	389	U	O3'-P-O5'	11.71	126.24	104.00
4	L	592	U	P-O3'-C3'	-11.70	105.66	119.70
2	J	219	A	OP1-P-O3'	-11.70	79.46	105.20
3	K	165	A	OP1-P-O3'	-11.70	79.47	105.20
1	I	337	A	OP2-P-O3'	11.69	130.92	105.20
1	I	333	A	OP2-P-O3'	11.69	130.91	105.20
3	K	142	A	OP1-P-O3'	11.68	130.91	105.20
4	L	781	U	O3'-P-O5'	11.68	126.19	104.00
4	L	546	U	OP2-P-O3'	11.68	130.89	105.20
4	L	793	U	P-O3'-C3'	-11.68	105.69	119.70
5	M	373	U	OP1-P-O3'	-11.68	79.51	105.20
6	N	499	U	OP2-P-O3'	-11.68	79.51	105.20
1	I	85	A	O3'-P-O5'	11.67	126.18	104.00
1	I	402	A	O3'-P-O5'	-11.67	81.82	104.00
5	M	320	U	O3'-P-O5'	-11.67	81.82	104.00
1	I	220	A	OP2-P-O3'	-11.67	79.53	105.20
6	N	359	U	O3'-P-O5'	11.67	126.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	180	A	P-O3'-C3'	11.66	133.69	119.70
4	L	628	U	OP2-P-O3'	-11.66	79.56	105.20
4	L	671	U	OP2-P-O3'	11.65	130.84	105.20
5	M	487	U	P-O3'-C3'	-11.65	105.72	119.70
4	L	491	U	O3'-P-O5'	11.65	126.13	104.00
1	I	249	A	OP1-P-O3'	-11.64	79.58	105.20
5	M	532	U	P-O3'-C3'	-11.64	105.73	119.70
6	N	528	U	P-O3'-C3'	-11.64	105.73	119.70
5	M	473	U	P-O3'-C3'	-11.64	105.73	119.70
6	N	339	U	O3'-P-O5'	-11.64	81.89	104.00
5	M	305	U	OP2-P-O3'	-11.63	79.62	105.20
4	L	637	U	OP2-P-O3'	11.62	130.77	105.20
6	N	487	U	O3'-P-O5'	-11.62	81.91	104.00
4	L	735	U	OP2-P-O3'	11.62	130.76	105.20
4	L	815	U	OP1-P-O3'	-11.62	79.64	105.20
2	J	62	A	OP2-P-O3'	11.62	130.75	105.20
2	J	165	A	O3'-P-O5'	11.61	126.06	104.00
6	N	410	U	P-O3'-C3'	-11.61	105.77	119.70
2	J	49	A	OP2-P-O3'	-11.60	79.67	105.20
3	K	122	A	OP2-P-O3'	-11.60	79.68	105.20
1	I	191	A	O3'-P-O5'	-11.60	81.97	104.00
1	I	254	A	P-O3'-C3'	-11.60	105.78	119.70
3	K	220	A	P-O3'-C3'	11.59	133.61	119.70
2	J	200	A	OP2-P-O3'	-11.59	79.71	105.20
2	J	149	A	O3'-P-O5'	11.59	126.01	104.00
1	I	268	A	OP2-P-O3'	11.58	130.67	105.20
5	M	347	U	OP1-P-O3'	-11.57	79.74	105.20
3	K	81	A	P-O3'-C3'	-11.57	105.82	119.70
4	L	681	U	OP1-P-O3'	11.56	130.63	105.20
1	I	151	A	O3'-P-O5'	11.56	125.96	104.00
1	I	209	A	O3'-P-O5'	11.56	125.96	104.00
1	I	39	A	O3'-P-O5'	11.56	125.96	104.00
5	M	390	U	O3'-P-O5'	11.55	125.95	104.00
6	N	394	U	P-O3'-C3'	-11.55	105.84	119.70
6	N	439	U	O3'-P-O5'	-11.55	82.06	104.00
4	L	746	U	P-O3'-C3'	-11.55	105.84	119.70
2	J	68	A	O3'-P-O5'	-11.54	82.07	104.00
1	I	190	A	P-O3'-C3'	-11.54	105.85	119.70
3	K	198	A	OP1-P-O3'	11.53	130.57	105.20
5	M	530	U	OP1-P-O3'	-11.53	79.83	105.20
3	K	160	A	OP2-P-O3'	11.53	130.56	105.20
2	J	43	A	OP1-P-O3'	-11.52	79.85	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	95	A	P-O3'-C3'	-11.52	105.88	119.70
3	K	211	A	P-O3'-C3'	11.52	133.52	119.70
2	J	180	A	OP2-P-O3'	-11.51	79.87	105.20
1	I	232	A	OP1-P-O3'	-11.51	79.88	105.20
3	K	64	A	OP2-P-O3'	11.51	130.51	105.20
1	I	274	A	P-O3'-C3'	-11.51	105.89	119.70
5	M	373	U	OP2-P-O3'	11.50	130.51	105.20
4	L	503	U	O3'-P-O5'	11.50	125.85	104.00
3	K	94	A	P-O3'-C3'	-11.50	105.91	119.70
5	M	518	U	OP2-P-O3'	-11.49	79.92	105.20
2	J	152	A	OP2-P-O3'	11.48	130.46	105.20
2	J	54	A	OP2-P-O3'	11.48	130.45	105.20
4	L	673	U	OP2-P-O3'	11.47	130.44	105.20
6	N	414	U	OP2-P-O3'	-11.47	79.97	105.20
4	L	421	U	OP2-P-O3'	11.46	130.42	105.20
2	J	88	A	O3'-P-O5'	11.46	125.78	104.00
5	M	350	U	OP2-P-O3'	11.46	130.42	105.20
1	I	118	A	O3'-P-O5'	11.46	125.77	104.00
2	J	79	A	OP1-P-O3'	-11.46	79.99	105.20
3	K	152	A	P-O3'-C3'	-11.46	105.95	119.70
4	L	438	U	OP1-P-O3'	11.45	130.39	105.20
5	M	290	U	O3'-P-O5'	-11.45	82.25	104.00
1	I	223	A	P-O3'-C3'	-11.44	105.97	119.70
4	L	769	U	OP1-P-O3'	-11.44	80.04	105.20
1	I	48	A	O3'-P-O5'	-11.43	82.28	104.00
2	J	90	A	O3'-P-O5'	-11.43	82.29	104.00
6	N	344	U	O3'-P-O5'	11.42	125.70	104.00
4	L	728	U	O3'-P-O5'	11.42	125.69	104.00
6	N	477	U	OP2-P-O3'	11.41	130.31	105.20
1	I	4	A	OP1-P-O3'	11.41	130.30	105.20
2	J	149	A	P-O3'-C3'	-11.41	106.01	119.70
6	N	381	U	OP2-P-O3'	-11.41	80.10	105.20
2	J	83	A	O3'-P-O5'	11.40	125.67	104.00
4	L	547	U	P-O3'-C3'	-11.40	106.01	119.70
6	N	390	U	OP2-P-O3'	-11.40	80.11	105.20
1	I	321	A	OP2-P-O3'	11.40	130.28	105.20
1	I	243	A	OP2-P-O3'	11.40	130.28	105.20
1	I	277	A	OP1-P-O3'	11.40	130.28	105.20
1	I	88	A	O3'-P-O5'	11.40	125.66	104.00
2	J	269	A	O3'-P-O5'	11.40	125.66	104.00
3	K	249	A	O3'-P-O5'	11.39	125.65	104.00
5	M	344	U	P-O3'-C3'	-11.39	106.03	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	494	U	OP2-P-O3'	-11.39	80.13	105.20
1	I	357	A	P-O3'-C3'	-11.39	106.03	119.70
1	I	17	A	OP1-P-O3'	-11.39	80.15	105.20
1	I	28	A	O3'-P-O5'	11.39	125.64	104.00
5	M	378	U	O3'-P-O5'	11.39	125.64	104.00
6	N	277	U	OP1-P-O3'	-11.39	80.15	105.20
2	J	49	A	O3'-P-O5'	11.38	125.61	104.00
2	J	154	A	O3'-P-O5'	11.37	125.61	104.00
4	L	602	U	OP2-P-O3'	11.37	130.21	105.20
3	K	168	A	OP1-P-O3'	-11.37	80.19	105.20
5	M	462	U	OP2-P-O3'	11.37	130.20	105.20
5	M	322	U	P-O3'-C3'	-11.36	106.07	119.70
6	N	413	U	P-O3'-C3'	-11.36	106.06	119.70
5	M	315	U	O3'-P-O5'	11.36	125.58	104.00
3	K	175	A	P-O3'-C3'	-11.36	106.07	119.70
4	L	513	U	OP2-P-O3'	11.35	130.17	105.20
4	L	418	U	O3'-P-O5'	11.35	125.56	104.00
6	N	421	U	OP2-P-O3'	11.35	130.16	105.20
4	L	648	U	P-O3'-C3'	-11.35	106.09	119.70
4	L	529	U	P-O3'-C3'	-11.34	106.09	119.70
4	L	704	U	OP1-P-O3'	-11.34	80.25	105.20
5	M	290	U	P-O3'-C3'	-11.34	106.09	119.70
2	J	184	A	O3'-P-O5'	11.34	125.54	104.00
1	I	76	A	OP2-P-O3'	11.33	130.13	105.20
2	J	142	A	P-O3'-C3'	-11.33	106.10	119.70
1	I	30	A	O3'-P-O5'	11.33	125.53	104.00
3	K	212	A	P-O3'-C3'	-11.33	106.11	119.70
2	J	212	A	P-O3'-C3'	-11.32	106.12	119.70
5	M	387	U	O3'-P-O5'	11.32	125.51	104.00
3	K	157	A	OP2-P-O3'	11.31	130.09	105.20
1	I	297	A	O3'-P-O5'	-11.31	82.51	104.00
4	L	560	U	O3'-P-O5'	11.31	125.48	104.00
3	K	68	A	O3'-P-O5'	11.30	125.47	104.00
3	K	51	A	O3'-P-O5'	11.30	125.47	104.00
4	L	608	U	O3'-P-O5'	11.29	125.45	104.00
4	L	627	U	O3'-P-O5'	11.29	125.46	104.00
1	I	181	A	OP2-P-O3'	11.28	130.02	105.20
1	I	257	A	OP1-P-O3'	-11.29	80.37	105.20
2	J	234	A	P-O3'-C3'	-11.28	106.16	119.70
3	K	102	A	OP2-P-O3'	-11.28	80.39	105.20
1	I	265	A	OP2-P-O3'	11.27	130.00	105.20
6	N	280	U	OP1-P-O3'	-11.27	80.40	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	124	A	P-O3'-C3'	-11.27	106.18	119.70
4	L	425	U	O3'-P-O5'	-11.27	82.59	104.00
2	J	69	A	OP1-P-O3'	-11.26	80.42	105.20
6	N	486	U	OP2-P-O3'	11.26	129.98	105.20
4	L	743	U	O3'-P-O5'	11.26	125.39	104.00
3	K	122	A	O3'-P-O5'	11.25	125.38	104.00
4	L	767	U	OP1-P-O3'	11.25	129.95	105.20
6	N	330	U	O3'-P-O5'	-11.24	82.64	104.00
5	M	500	U	OP2-P-O3'	-11.24	80.47	105.20
3	K	158	A	OP2-P-O3'	11.24	129.92	105.20
3	K	32	A	P-O3'-C3'	-11.23	106.22	119.70
2	J	190	A	P-O3'-C3'	-11.23	106.23	119.70
3	K	121	A	OP2-P-O3'	11.23	129.90	105.20
4	L	583	U	OP2-P-O3'	11.23	129.90	105.20
3	K	145	A	OP1-P-O3'	11.22	129.88	105.20
5	M	381	U	O3'-P-O5'	-11.21	82.70	104.00
5	M	386	U	O3'-P-O5'	11.21	125.30	104.00
2	J	176	A	O3'-P-O5'	11.21	125.30	104.00
2	J	242	A	OP2-P-O3'	-11.20	80.56	105.20
1	I	218	A	O3'-P-O5'	11.20	125.27	104.00
4	L	419	U	OP1-P-O3'	11.18	129.79	105.20
6	N	445	U	OP2-P-O3'	-11.17	80.63	105.20
1	I	237	A	O3'-P-O5'	-11.17	82.78	104.00
1	I	389	A	OP1-P-O3'	11.16	129.76	105.20
1	I	127	A	O3'-P-O5'	-11.16	82.80	104.00
4	L	610	U	O3'-P-O5'	-11.16	82.80	104.00
4	L	802	U	OP2-P-O3'	11.16	129.75	105.20
5	M	548	U	P-O3'-C3'	11.16	133.09	119.70
6	N	393	U	OP2-P-O3'	-11.16	80.66	105.20
5	M	345	U	P-O3'-C3'	-11.15	106.32	119.70
5	M	545	U	O3'-P-O5'	11.15	125.19	104.00
6	N	343	U	O3'-P-O5'	11.15	125.18	104.00
1	I	237	A	OP2-P-O3'	11.15	129.73	105.20
4	L	729	U	O3'-P-O5'	11.15	125.18	104.00
2	J	71	A	O3'-P-O5'	-11.15	82.82	104.00
1	I	22	A	OP2-P-O3'	11.14	129.72	105.20
4	L	797	U	P-O3'-C3'	-11.14	106.33	119.70
1	I	127	A	P-O3'-C3'	-11.13	106.34	119.70
3	K	248	A	OP2-P-O3'	-11.13	80.70	105.20
4	L	632	U	OP2-P-O3'	-11.13	80.70	105.20
5	M	346	U	OP2-P-O3'	11.12	129.67	105.20
1	I	75	A	OP1-P-O3'	-11.12	80.75	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	52	A	OP2-P-O3'	11.12	129.66	105.20
4	L	531	U	OP1-P-O3'	-11.12	80.74	105.20
5	M	399	U	P-O3'-C3'	-11.11	106.36	119.70
2	J	251	A	P-O3'-C3'	-11.11	106.37	119.70
6	N	495	U	OP1-P-O3'	11.11	129.64	105.20
1	I	104	A	OP1-P-O3'	11.11	129.63	105.20
4	L	460	U	P-O3'-C3'	-11.10	106.38	119.70
6	N	323	U	O3'-P-O5'	-11.10	82.91	104.00
5	M	403	U	O3'-P-O5'	11.10	125.08	104.00
3	K	169	A	O3'-P-O5'	-11.09	82.93	104.00
3	K	215	A	P-O3'-C3'	11.09	133.01	119.70
3	K	12	A	OP2-P-O3'	-11.08	80.82	105.20
5	M	469	U	O3'-P-O5'	11.08	125.06	104.00
3	K	116	A	P-O3'-C3'	-11.08	106.41	119.70
6	N	369	U	P-O3'-C3'	-11.08	106.41	119.70
3	K	6	A	O3'-P-O5'	-11.07	82.96	104.00
3	K	212	A	OP1-P-O3'	11.07	129.57	105.20
5	M	457	U	O3'-P-O5'	-11.07	82.96	104.00
3	K	139	A	O3'-P-O5'	11.07	125.04	104.00
4	L	422	U	OP2-P-O3'	11.07	129.56	105.20
4	L	822	U	O3'-P-O5'	11.07	125.03	104.00
2	J	213	A	O3'-P-O5'	11.06	125.02	104.00
1	I	56	A	O3'-P-O5'	11.06	125.02	104.00
3	K	90	A	OP2-P-O3'	11.06	129.54	105.20
2	J	23	A	O3'-P-O5'	11.06	125.01	104.00
2	J	139	A	P-O3'-C3'	-11.06	106.43	119.70
6	N	375	U	P-O3'-C3'	-11.05	106.44	119.70
1	I	236	A	O3'-P-O5'	11.04	124.98	104.00
4	L	644	U	OP1-P-O3'	-11.04	80.92	105.20
5	M	525	U	OP2-P-O3'	11.03	129.46	105.20
4	L	521	U	O3'-P-O5'	11.02	124.93	104.00
5	M	363	U	O3'-P-O5'	11.02	124.93	104.00
4	L	823	U	O3'-P-O5'	11.02	124.93	104.00
5	M	477	U	P-O3'-C3'	-11.01	106.48	119.70
5	M	381	U	OP1-P-O3'	11.01	129.43	105.20
2	J	24	A	OP2-P-O3'	-11.01	80.99	105.20
6	N	352	U	O3'-P-O5'	-11.01	83.08	104.00
2	J	40	A	O3'-P-O5'	-11.00	83.10	104.00
6	N	368	U	P-O3'-C3'	-11.00	106.50	119.70
5	M	376	U	O3'-P-O5'	-11.00	83.10	104.00
1	I	141	A	OP1-P-O3'	11.00	129.39	105.20
5	M	408	U	OP1-P-O3'	-11.00	81.00	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	741	U	OP2-P-O3'	-11.00	81.01	105.20
1	I	391	A	OP2-P-O3'	-10.99	81.01	105.20
2	J	137	A	O3'-P-O5'	10.99	124.89	104.00
1	I	299	A	P-O3'-C3'	-10.99	106.51	119.70
4	L	571	U	OP1-P-O3'	10.99	129.38	105.20
3	K	65	A	O3'-P-O5'	-10.98	83.14	104.00
4	L	538	U	P-O3'-C3'	-10.98	106.52	119.70
4	L	684	U	OP1-P-O3'	10.98	129.35	105.20
6	N	300	U	OP1-P-O3'	10.98	129.35	105.20
6	N	322	U	OP1-P-O3'	10.98	129.35	105.20
2	J	196	A	O3'-P-O5'	10.97	124.85	104.00
6	N	272	U	OP2-P-O3'	-10.97	81.06	105.20
2	J	267	A	O3'-P-O5'	10.97	124.85	104.00
4	L	610	U	P-O3'-C3'	-10.97	106.54	119.70
6	N	460	U	O3'-P-O5'	10.97	124.84	104.00
5	M	505	U	OP1-P-O3'	-10.96	81.10	105.20
1	I	55	A	O3'-P-O5'	10.95	124.81	104.00
1	I	368	A	O3'-P-O5'	10.95	124.80	104.00
6	N	487	U	OP1-P-O3'	10.94	129.27	105.20
6	N	375	U	O3'-P-O5'	-10.93	83.23	104.00
3	K	228	A	O3'-P-O5'	-10.92	83.25	104.00
1	I	387	A	O3'-P-O5'	-10.92	83.26	104.00
5	M	521	U	P-O3'-C3'	-10.91	106.60	119.70
1	I	393	A	OP2-P-O3'	10.91	129.20	105.20
5	M	296	U	O3'-P-O5'	-10.91	83.27	104.00
6	N	486	U	P-O3'-C3'	-10.91	106.61	119.70
4	L	495	U	O3'-P-O5'	-10.91	83.28	104.00
3	K	191	A	O3'-P-O5'	-10.90	83.28	104.00
4	L	458	U	OP2-P-O3'	10.90	129.19	105.20
6	N	388	U	P-O3'-C3'	10.90	132.78	119.70
5	M	473	U	O3'-P-O5'	10.90	124.71	104.00
4	L	751	U	P-O3'-C3'	-10.90	106.62	119.70
1	I	253	A	P-O3'-C3'	-10.87	106.65	119.70
6	N	491	U	P-O3'-C3'	-10.87	106.66	119.70
6	N	501	U	OP2-P-O3'	10.87	129.12	105.20
3	K	181	A	O3'-P-O5'	10.87	124.65	104.00
5	M	297	U	OP2-P-O3'	10.87	129.11	105.20
3	K	197	A	P-O3'-C3'	10.87	132.74	119.70
4	L	522	U	O3'-P-O5'	10.87	124.65	104.00
4	L	710	U	O3'-P-O5'	10.86	124.64	104.00
6	N	394	U	O3'-P-O5'	10.86	124.64	104.00
6	N	373	U	OP2-P-O3'	-10.86	81.32	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	81	A	OP2-P-O3'	10.85	129.08	105.20
4	L	703	U	P-O3'-C3'	-10.85	106.68	119.70
1	I	304	A	O3'-P-O5'	10.85	124.61	104.00
5	M	286	U	P-O3'-C3'	-10.85	106.69	119.70
1	I	152	A	P-O3'-C3'	-10.84	106.69	119.70
2	J	170	A	O3'-P-O5'	10.84	124.59	104.00
6	N	352	U	OP2-P-O3'	10.83	129.02	105.20
4	L	797	U	O3'-P-O5'	10.82	124.55	104.00
1	I	20	A	P-O3'-C3'	-10.81	106.73	119.70
4	L	750	U	O3'-P-O5'	10.81	124.54	104.00
4	L	571	U	O3'-P-O5'	-10.80	83.49	104.00
3	K	87	A	OP1-P-O3'	-10.79	81.45	105.20
1	I	87	A	OP1-P-O3'	-10.79	81.47	105.20
4	L	492	U	O3'-P-O5'	10.79	124.50	104.00
2	J	53	A	O3'-P-O5'	10.78	124.48	104.00
6	N	309	U	OP1-P-O3'	10.78	128.91	105.20
4	L	474	U	OP2-P-O3'	10.77	128.90	105.20
3	K	128	A	O3'-P-O5'	-10.77	83.53	104.00
4	L	660	U	OP2-P-O3'	10.77	128.89	105.20
2	J	72	A	O3'-P-O5'	-10.76	83.55	104.00
1	I	372	A	P-O3'-C3'	-10.76	106.79	119.70
6	N	387	U	OP1-P-O3'	10.76	128.87	105.20
3	K	214	A	OP1-P-O3'	10.76	128.86	105.20
3	K	218	A	OP1-P-O3'	10.76	128.86	105.20
1	I	153	A	O3'-P-O5'	-10.75	83.57	104.00
2	J	202	A	OP1-P-O3'	-10.75	81.55	105.20
1	I	133	A	OP1-P-O3'	-10.75	81.56	105.20
1	I	386	A	OP1-P-O3'	10.74	128.83	105.20
2	J	263	A	OP2-P-O3'	10.74	128.82	105.20
1	I	2	A	O3'-P-O5'	10.73	124.39	104.00
2	J	184	A	OP1-P-O3'	-10.73	81.59	105.20
6	N	376	U	O3'-P-O5'	-10.73	83.61	104.00
5	M	524	U	P-O3'-C3'	-10.72	106.83	119.70
2	J	176	A	OP2-P-O3'	-10.72	81.61	105.20
5	M	463	U	OP2-P-O3'	10.72	128.78	105.20
1	I	216	A	P-O3'-C3'	-10.72	106.84	119.70
1	I	327	A	P-O3'-C3'	-10.72	106.84	119.70
2	J	161	A	P-O3'-C3'	-10.71	106.85	119.70
2	J	231	A	P-O3'-C3'	-10.70	106.86	119.70
4	L	614	U	OP2-P-O3'	10.70	128.74	105.20
1	I	233	A	OP1-P-O3'	-10.69	81.68	105.20
2	J	197	A	OP2-P-O3'	-10.69	81.68	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	547	U	OP1-P-O3'	10.68	128.70	105.20
5	M	339	U	OP2-P-O3'	10.68	128.70	105.20
3	K	111	A	OP2-P-O3'	-10.68	81.70	105.20
2	J	162	A	OP2-P-O3'	-10.67	81.72	105.20
6	N	525	U	O3'-P-O5'	-10.67	83.72	104.00
5	M	392	U	P-O3'-C3'	-10.67	106.90	119.70
6	N	378	U	OP1-P-O3'	10.67	128.67	105.20
3	K	133	A	OP2-P-O3'	10.67	128.66	105.20
3	K	35	A	O3'-P-O5'	-10.66	83.75	104.00
3	K	31	A	P-O3'-C3'	-10.65	106.91	119.70
1	I	229	A	O3'-P-O5'	-10.65	83.76	104.00
6	N	300	U	OP2-P-O3'	-10.65	81.76	105.20
1	I	196	A	O3'-P-O5'	10.65	124.24	104.00
2	J	193	A	OP2-P-O3'	10.65	128.62	105.20
1	I	193	A	O3'-P-O5'	10.64	124.22	104.00
1	I	202	A	P-O3'-C3'	-10.64	106.93	119.70
4	L	577	U	O3'-P-O5'	-10.64	83.79	104.00
2	J	206	A	OP1-P-O3'	-10.64	81.80	105.20
2	J	234	A	OP2-P-O3'	10.63	128.59	105.20
3	K	43	A	O3'-P-O5'	-10.63	83.80	104.00
4	L	762	U	O3'-P-O5'	10.63	124.19	104.00
5	M	358	U	P-O3'-C3'	-10.63	106.95	119.70
4	L	593	U	OP2-P-O3'	10.62	128.57	105.20
2	J	140	A	P-O3'-C3'	-10.62	106.96	119.70
5	M	498	U	P-O3'-C3'	10.62	132.44	119.70
5	M	515	U	OP1-P-O3'	-10.62	81.84	105.20
5	M	498	U	OP1-P-O3'	10.62	128.55	105.20
5	M	399	U	O3'-P-O5'	10.61	124.16	104.00
6	N	441	U	P-O3'-C3'	-10.61	106.96	119.70
4	L	420	U	O3'-P-O5'	-10.60	83.85	104.00
5	M	515	U	O3'-P-O5'	10.60	124.14	104.00
6	N	443	U	O3'-P-O5'	10.60	124.14	104.00
1	I	199	A	P-O3'-C3'	-10.60	106.98	119.70
4	L	578	U	OP2-P-O3'	10.59	128.50	105.20
5	M	311	U	O3'-P-O5'	10.58	124.10	104.00
1	I	247	A	P-O3'-C3'	-10.58	107.01	119.70
5	M	286	U	O3'-P-O5'	10.58	124.10	104.00
5	M	484	U	OP2-P-O3'	10.58	128.47	105.20
1	I	288	A	OP2-P-O3'	10.57	128.47	105.20
1	I	315	A	P-O3'-C3'	-10.57	107.01	119.70
6	N	319	U	OP1-P-O3'	10.57	128.47	105.20
2	J	202	A	O3'-P-O5'	10.56	124.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	72	A	O3'-P-O5'	-10.56	83.94	104.00
2	J	228	A	OP2-P-O3'	10.56	128.42	105.20
6	N	320	U	O3'-P-O5'	-10.56	83.94	104.00
4	L	534	U	P-O3'-C3'	-10.55	107.04	119.70
5	M	458	U	O3'-P-O5'	-10.55	83.96	104.00
2	J	60	A	OP2-P-O3'	-10.55	82.00	105.20
3	K	81	A	O3'-P-O5'	-10.54	83.97	104.00
2	J	67	A	OP2-P-O3'	10.54	128.38	105.20
1	I	201	A	P-O3'-C3'	-10.53	107.06	119.70
1	I	335	A	P-O3'-C3'	-10.53	107.07	119.70
4	L	492	U	P-O3'-C3'	-10.53	107.06	119.70
1	I	3	A	O3'-P-O5'	10.53	124.00	104.00
5	M	459	U	OP2-P-O3'	10.52	128.35	105.20
4	L	803	U	OP2-P-O3'	10.52	128.35	105.20
1	I	32	A	OP2-P-O3'	-10.52	82.06	105.20
3	K	51	A	OP2-P-O3'	-10.51	82.07	105.20
3	K	211	A	O3'-P-O5'	-10.51	84.03	104.00
3	K	55	A	O3'-P-O5'	10.51	123.97	104.00
4	L	478	U	OP1-P-O3'	-10.50	82.09	105.20
2	J	207	A	O3'-P-O5'	-10.50	84.05	104.00
4	L	604	U	OP2-P-O3'	10.50	128.31	105.20
3	K	89	A	P-O3'-C3'	-10.50	107.10	119.70
6	N	501	U	O3'-P-O5'	-10.50	84.05	104.00
4	L	424	U	P-O3'-C3'	-10.50	107.10	119.70
1	I	252	A	O3'-P-O5'	10.49	123.94	104.00
2	J	105	A	P-O3'-C3'	-10.49	107.11	119.70
1	I	154	A	P-O3'-C3'	10.49	132.28	119.70
5	M	380	U	O3'-P-O5'	-10.49	84.08	104.00
2	J	114	A	P-O3'-C3'	-10.48	107.12	119.70
4	L	430	U	OP1-P-O3'	10.48	128.25	105.20
1	I	45	A	P-O3'-C3'	-10.48	107.13	119.70
1	I	242	A	OP1-P-O3'	-10.48	82.15	105.20
2	J	105	A	O3'-P-O5'	-10.47	84.11	104.00
1	I	120	A	O3'-P-O5'	10.47	123.89	104.00
2	J	151	A	O3'-P-O5'	-10.46	84.12	104.00
6	N	318	U	O3'-P-O5'	-10.46	84.13	104.00
1	I	401	A	OP1-P-O3'	10.45	128.19	105.20
1	I	349	A	OP2-P-O3'	10.45	128.19	105.20
2	J	122	A	OP1-P-O3'	10.44	128.18	105.20
6	N	433	U	OP2-P-O3'	-10.44	82.23	105.20
1	I	341	A	OP1-P-O3'	-10.44	82.23	105.20
4	L	455	U	O3'-P-O5'	10.44	123.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	35	A	P-O3'-C3'	-10.44	107.18	119.70
5	M	456	U	P-O3'-C3'	-10.43	107.18	119.70
2	J	197	A	O3'-P-O5'	10.43	123.82	104.00
3	K	113	A	O3'-P-O5'	-10.43	84.18	104.00
1	I	129	A	OP2-P-O3'	10.43	128.14	105.20
3	K	240	A	P-O3'-C3'	-10.43	107.19	119.70
4	L	642	U	OP2-P-O3'	10.43	128.14	105.20
5	M	419	U	OP1-P-O3'	-10.42	82.27	105.20
1	I	390	A	OP1-P-O3'	10.42	128.12	105.20
5	M	283	U	O3'-P-O5'	10.42	123.80	104.00
1	I	154	A	OP2-P-O3'	-10.41	82.29	105.20
1	I	156	A	OP1-P-O3'	10.41	128.10	105.20
4	L	497	U	O3'-P-O5'	-10.41	84.22	104.00
3	K	226	A	O3'-P-O5'	-10.40	84.23	104.00
1	I	277	A	P-O3'-C3'	-10.40	107.22	119.70
1	I	307	A	P-O3'-C3'	-10.39	107.23	119.70
6	N	343	U	OP2-P-O3'	-10.39	82.34	105.20
4	L	425	U	P-O3'-C3'	-10.38	107.24	119.70
5	M	410	U	OP2-P-O3'	10.38	128.04	105.20
1	I	134	A	P-O3'-C3'	-10.38	107.24	119.70
1	I	98	A	OP2-P-O3'	-10.38	82.37	105.20
1	I	367	A	O3'-P-O5'	10.37	123.70	104.00
5	M	451	U	P-O3'-C3'	-10.37	107.26	119.70
5	M	538	U	OP2-P-O3'	10.37	128.00	105.20
4	L	603	U	P-O3'-C3'	-10.36	107.27	119.70
2	J	63	A	O3'-P-O5'	-10.36	84.32	104.00
4	L	567	U	OP1-P-O3'	-10.36	82.41	105.20
3	K	80	A	P-O3'-C3'	-10.36	107.27	119.70
5	M	546	U	O3'-P-O5'	10.36	123.68	104.00
2	J	130	A	O3'-P-O5'	-10.35	84.33	104.00
1	I	174	A	OP1-P-O3'	-10.35	82.43	105.20
4	L	755	U	OP1-P-O3'	-10.35	82.43	105.20
5	M	513	U	P-O3'-C3'	-10.35	107.29	119.70
3	K	214	A	P-O3'-C3'	10.34	132.11	119.70
1	I	78	A	P-O3'-C3'	-10.33	107.30	119.70
1	I	91	A	OP2-P-O3'	10.33	127.94	105.20
6	N	281	U	OP2-P-O3'	10.33	127.94	105.20
2	J	72	A	OP2-P-O3'	10.33	127.93	105.20
4	L	511	U	O3'-P-O5'	10.33	123.63	104.00
4	L	595	U	O3'-P-O5'	-10.33	84.38	104.00
5	M	396	U	O3'-P-O5'	-10.32	84.38	104.00
5	M	365	U	OP1-P-O3'	-10.32	82.50	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	391	A	OP1-P-O3'	10.31	127.89	105.20
2	J	145	A	O3'-P-O5'	-10.31	84.41	104.00
2	J	192	A	O3'-P-O5'	10.31	123.58	104.00
5	M	357	U	O3'-P-O5'	10.30	123.58	104.00
6	N	308	U	OP2-P-O3'	-10.30	82.53	105.20
6	N	341	U	OP1-P-O3'	10.30	127.87	105.20
4	L	756	U	O3'-P-O5'	10.30	123.57	104.00
6	N	434	U	P-O3'-C3'	-10.30	107.34	119.70
4	L	650	U	O3'-P-O5'	10.30	123.56	104.00
6	N	320	U	OP2-P-O3'	10.30	127.86	105.20
6	N	458	U	O3'-P-O5'	10.30	123.56	104.00
2	J	122	A	O3'-P-O5'	-10.30	84.44	104.00
5	M	298	U	OP2-P-O3'	10.29	127.84	105.20
1	I	180	A	O3'-P-O5'	10.28	123.54	104.00
6	N	386	U	P-O3'-C3'	10.28	132.04	119.70
5	M	411	U	OP2-P-O3'	10.28	127.81	105.20
2	J	82	A	P-O3'-C3'	-10.27	107.38	119.70
1	I	278	A	P-O3'-C3'	-10.27	107.38	119.70
3	K	148	A	O3'-P-O5'	10.27	123.51	104.00
2	J	252	A	OP2-P-O3'	10.26	127.77	105.20
2	J	124	A	O3'-P-O5'	10.26	123.49	104.00
1	I	103	A	O3'-P-O5'	10.26	123.48	104.00
5	M	467	U	OP2-P-O3'	10.26	127.76	105.20
1	I	290	A	P-O3'-C3'	-10.25	107.40	119.70
3	K	106	A	OP2-P-O3'	10.25	127.75	105.20
5	M	548	U	OP1-P-O3'	10.25	127.75	105.20
1	I	189	A	O3'-P-O5'	-10.25	84.53	104.00
3	K	12	A	OP1-P-O3'	10.25	127.74	105.20
2	J	146	A	P-O3'-C3'	-10.24	107.41	119.70
3	K	204	A	OP1-P-O3'	10.24	127.73	105.20
5	M	379	U	OP1-P-O3'	10.24	127.72	105.20
4	L	597	U	OP2-P-O3'	10.24	127.72	105.20
1	I	269	A	OP1-P-O3'	-10.23	82.68	105.20
2	J	247	A	O3'-P-O5'	10.23	123.44	104.00
6	N	281	U	OP1-P-O3'	-10.23	82.68	105.20
6	N	321	U	P-O3'-C3'	-10.23	107.42	119.70
2	J	127	A	OP1-P-O3'	-10.23	82.70	105.20
1	I	285	A	O3'-P-O5'	-10.23	84.57	104.00
1	I	396	A	O3'-P-O5'	-10.23	84.57	104.00
4	L	599	U	OP2-P-O3'	10.22	127.69	105.20
3	K	127	A	P-O3'-C3'	-10.22	107.44	119.70
5	M	418	U	OP2-P-O3'	10.21	127.67	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	140	A	O3'-P-O5'	10.21	123.40	104.00
4	L	735	U	O3'-P-O5'	-10.21	84.61	104.00
1	I	262	A	OP1-P-O3'	-10.20	82.76	105.20
2	J	224	A	OP1-P-O3'	-10.20	82.76	105.20
4	L	665	U	P-O3'-C3'	-10.20	107.46	119.70
1	I	162	A	O3'-P-O5'	-10.20	84.62	104.00
6	N	351	U	O3'-P-O5'	-10.20	84.62	104.00
4	L	504	U	OP1-P-O3'	-10.19	82.78	105.20
5	M	310	U	O3'-P-O5'	-10.19	84.64	104.00
4	L	495	U	P-O3'-C3'	-10.18	107.48	119.70
6	N	415	U	P-O3'-C3'	10.18	131.92	119.70
2	J	264	A	P-O3'-C3'	-10.18	107.48	119.70
3	K	125	A	P-O3'-C3'	-10.18	107.49	119.70
2	J	214	A	O3'-P-O5'	10.17	123.32	104.00
3	K	221	A	OP1-P-O3'	10.17	127.57	105.20
1	I	112	A	OP2-P-O3'	10.17	127.57	105.20
3	K	100	A	OP1-P-O3'	-10.16	82.84	105.20
1	I	30	A	P-O3'-C3'	-10.16	107.51	119.70
5	M	528	U	O3'-P-O5'	10.16	123.30	104.00
5	M	522	U	O3'-P-O5'	-10.15	84.72	104.00
4	L	487	U	O3'-P-O5'	-10.15	84.72	104.00
4	L	630	U	P-O3'-C3'	-10.15	107.52	119.70
4	L	574	U	P-O3'-C3'	-10.14	107.53	119.70
1	I	332	A	OP2-P-O3'	10.14	127.51	105.20
3	K	67	A	OP2-P-O3'	-10.14	82.89	105.20
1	I	287	A	P-O3'-C3'	-10.14	107.54	119.70
5	M	428	U	OP2-P-O3'	10.14	127.50	105.20
2	J	230	A	O3'-P-O5'	-10.13	84.74	104.00
1	I	229	A	P-O3'-C3'	-10.13	107.54	119.70
4	L	457	U	O3'-P-O5'	10.13	123.24	104.00
1	I	297	A	OP2-P-O3'	10.13	127.48	105.20
4	L	579	U	P-O3'-C3'	-10.12	107.56	119.70
5	M	437	U	O3'-P-O5'	-10.11	84.78	104.00
2	J	146	A	OP2-P-O3'	10.11	127.45	105.20
3	K	220	A	OP1-P-O3'	10.11	127.44	105.20
4	L	530	U	OP1-P-O3'	-10.11	82.97	105.20
4	L	683	U	O3'-P-O5'	-10.11	84.80	104.00
2	J	39	A	OP2-P-O3'	10.10	127.42	105.20
5	M	494	U	O3'-P-O5'	10.10	123.19	104.00
6	N	412	U	OP1-P-O3'	-10.10	82.99	105.20
6	N	443	U	OP1-P-O3'	-10.09	83.00	105.20
2	J	173	A	P-O3'-C3'	10.09	131.81	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	518	U	P-O3'-C3'	-10.09	107.60	119.70
6	N	419	U	O3'-P-O5'	10.09	123.17	104.00
6	N	462	U	P-O3'-C3'	-10.09	107.59	119.70
5	M	395	U	OP2-P-O3'	10.09	127.39	105.20
1	I	50	A	OP2-P-O3'	-10.08	83.02	105.20
1	I	50	A	P-O3'-C3'	-10.08	107.61	119.70
2	J	187	A	O3'-P-O5'	10.08	123.14	104.00
4	L	672	U	P-O3'-C3'	-10.08	107.61	119.70
5	M	440	U	O3'-P-O5'	10.08	123.14	104.00
6	N	386	U	OP1-P-O3'	10.07	127.36	105.20
4	L	635	U	O3'-P-O5'	-10.07	84.86	104.00
6	N	358	U	P-O3'-C3'	-10.07	107.61	119.70
1	I	94	A	OP2-P-O3'	-10.07	83.05	105.20
2	J	191	A	P-O3'-C3'	-10.06	107.62	119.70
2	J	217	A	OP1-P-O3'	10.06	127.33	105.20
4	L	465	U	O3'-P-O5'	10.06	123.11	104.00
5	M	325	U	P-O3'-C3'	-10.05	107.63	119.70
5	M	318	U	O3'-P-O5'	-10.05	84.90	104.00
1	I	227	A	OP2-P-O3'	10.05	127.31	105.20
3	K	129	A	P-O3'-C3'	-10.05	107.64	119.70
4	L	432	U	OP2-P-O3'	-10.05	83.10	105.20
6	N	438	U	P-O3'-C3'	-10.04	107.65	119.70
6	N	527	U	OP2-P-O3'	10.04	127.29	105.20
2	J	4	A	OP1-P-O3'	10.04	127.28	105.20
2	J	221	A	OP2-P-O3'	10.04	127.28	105.20
2	J	44	A	OP2-P-O3'	10.03	127.27	105.20
4	L	494	U	OP2-P-O3'	10.03	127.26	105.20
6	N	360	U	P-O3'-C3'	-10.03	107.67	119.70
2	J	15	A	O3'-P-O5'	10.03	123.05	104.00
3	K	8	A	P-O3'-C3'	-10.03	107.67	119.70
5	M	391	U	O3'-P-O5'	10.03	123.05	104.00
4	L	659	U	P-O3'-C3'	-10.01	107.68	119.70
6	N	440	U	O3'-P-O5'	-10.01	84.98	104.00
6	N	437	U	P-O3'-C3'	-10.01	107.69	119.70
1	I	164	A	OP1-P-O3'	10.01	127.21	105.20
6	N	448	U	O3'-P-O5'	-10.01	84.99	104.00
3	K	222	A	P-O3'-C3'	-10.01	107.69	119.70
6	N	293	U	OP1-P-O3'	10.01	127.21	105.20
3	K	82	A	OP2-P-O3'	10.00	127.20	105.20
3	K	103	A	P-O3'-C3'	-10.00	107.70	119.70
6	N	462	U	OP2-P-O3'	10.00	127.20	105.20
1	I	208	A	P-O3'-C3'	-10.00	107.70	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	107	A	OP1-P-O3'	10.00	127.19	105.20
2	J	242	A	O3'-P-O5'	10.00	123.00	104.00
6	N	385	U	OP1-P-O3'	10.00	127.19	105.20
3	K	128	A	OP2-P-O3'	9.99	127.17	105.20
4	L	661	U	OP2-P-O3'	-9.99	83.23	105.20
4	L	750	U	P-O3'-C3'	9.98	131.68	119.70
1	I	311	A	OP2-P-O3'	9.98	127.16	105.20
3	K	219	A	OP1-P-O3'	9.98	127.16	105.20
3	K	207	A	P-O3'-C3'	9.98	131.67	119.70
2	J	166	A	OP1-P-O3'	9.97	127.14	105.20
4	L	641	U	P-O3'-C3'	-9.97	107.74	119.70
1	I	57	A	O3'-P-O5'	-9.96	85.07	104.00
3	K	106	A	P-O3'-C3'	-9.96	107.75	119.70
5	M	370	U	OP1-P-O3'	9.96	127.10	105.20
1	I	372	A	OP2-P-O3'	9.95	127.09	105.20
3	K	157	A	O3'-P-O5'	-9.95	85.10	104.00
4	L	706	U	OP1-P-O3'	-9.95	83.31	105.20
5	M	358	U	O3'-P-O5'	9.94	122.89	104.00
2	J	14	A	O3'-P-O5'	9.94	122.88	104.00
6	N	432	U	P-O3'-C3'	-9.94	107.78	119.70
3	K	217	A	OP1-P-O3'	9.93	127.06	105.20
6	N	464	U	P-O3'-C3'	-9.93	107.78	119.70
1	I	110	A	OP2-P-O3'	9.93	127.04	105.20
1	I	381	A	OP2-P-O3'	-9.93	83.37	105.20
1	I	120	A	OP1-P-O3'	-9.91	83.39	105.20
3	K	153	A	OP2-P-O3'	-9.91	83.39	105.20
4	L	675	U	OP2-P-O3'	9.91	127.00	105.20
4	L	804	U	OP2-P-O3'	9.90	126.99	105.20
6	N	321	U	OP1-P-O3'	9.90	126.99	105.20
1	I	115	A	OP2-P-O3'	-9.90	83.42	105.20
4	L	473	U	P-O3'-C3'	-9.90	107.82	119.70
4	L	515	U	OP2-P-O3'	9.89	126.96	105.20
3	K	40	A	O3'-P-O5'	9.88	122.78	104.00
1	I	138	A	O3'-P-O5'	-9.88	85.22	104.00
2	J	159	A	OP2-P-O3'	9.88	126.92	105.20
6	N	424	U	OP2-P-O3'	9.87	126.92	105.20
4	L	655	U	O3'-P-O5'	9.87	122.75	104.00
2	J	253	A	OP2-P-O3'	9.86	126.90	105.20
3	K	151	A	O3'-P-O5'	9.86	122.74	104.00
4	L	705	U	O3'-P-O5'	9.86	122.73	104.00
4	L	812	U	OP1-P-O3'	-9.86	83.52	105.20
1	I	149	A	OP2-P-O3'	-9.85	83.52	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	98	A	O3'-P-O5'	-9.85	85.28	104.00
4	L	561	U	O3'-P-O5'	9.85	122.72	104.00
2	J	29	A	O3'-P-O5'	-9.85	85.29	104.00
3	K	203	A	O3'-P-O5'	9.85	122.71	104.00
1	I	395	A	O3'-P-O5'	-9.85	85.30	104.00
1	I	301	A	O3'-P-O5'	9.84	122.70	104.00
1	I	188	A	O3'-P-O5'	-9.84	85.31	104.00
1	I	343	A	OP1-P-O3'	-9.84	83.55	105.20
3	K	64	A	O3'-P-O5'	-9.84	85.31	104.00
4	L	520	U	O3'-P-O5'	9.84	122.69	104.00
3	K	180	A	OP1-P-O3'	9.83	126.83	105.20
1	I	131	A	O3'-P-O5'	-9.83	85.32	104.00
2	J	171	A	OP1-P-O3'	9.83	126.83	105.20
5	M	291	U	OP2-P-O3'	9.83	126.83	105.20
3	K	79	A	OP2-P-O3'	9.83	126.82	105.20
3	K	189	A	OP1-P-O3'	9.82	126.81	105.20
6	N	316	U	OP2-P-O3'	9.82	126.81	105.20
2	J	163	A	O3'-P-O5'	9.81	122.64	104.00
1	I	236	A	OP1-P-O3'	-9.80	83.64	105.20
3	K	216	A	OP1-P-O3'	9.80	126.75	105.20
5	M	402	U	O3'-P-O5'	9.79	122.61	104.00
6	N	323	U	OP2-P-O3'	9.79	126.74	105.20
1	I	179	A	OP2-P-O3'	9.79	126.74	105.20
1	I	6	A	OP2-P-O3'	-9.79	83.67	105.20
1	I	348	A	OP1-P-O3'	-9.78	83.68	105.20
5	M	390	U	OP2-P-O3'	-9.78	83.68	105.20
4	L	462	U	OP1-P-O3'	9.78	126.71	105.20
4	L	649	U	O3'-P-O5'	-9.77	85.43	104.00
4	L	504	U	OP2-P-O3'	9.76	126.68	105.20
1	I	167	A	P-O3'-C3'	-9.76	107.99	119.70
4	L	812	U	O3'-P-O5'	-9.75	85.48	104.00
6	N	280	U	OP2-P-O3'	9.75	126.64	105.20
4	L	758	U	OP1-P-O3'	-9.74	83.76	105.20
2	J	44	A	OP1-P-O3'	-9.74	83.77	105.20
2	J	74	A	P-O3'-C3'	-9.74	108.01	119.70
2	J	171	A	P-O3'-C3'	9.74	131.38	119.70
4	L	610	U	OP2-P-O3'	9.73	126.61	105.20
1	I	162	A	OP2-P-O3'	9.73	126.61	105.20
5	M	466	U	OP1-P-O3'	-9.73	83.80	105.20
2	J	201	A	OP2-P-O3'	9.73	126.60	105.20
5	M	424	U	O3'-P-O5'	9.72	122.46	104.00
1	I	309	A	O3'-P-O5'	-9.71	85.54	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	434	U	OP2-P-O3'	9.72	126.58	105.20
6	N	387	U	OP2-P-O3'	-9.71	83.83	105.20
6	N	305	U	OP1-P-O3'	9.71	126.57	105.20
5	M	308	U	O3'-P-O5'	9.71	122.45	104.00
5	M	484	U	O3'-P-O5'	-9.71	85.55	104.00
1	I	81	A	O3'-P-O5'	9.70	122.44	104.00
4	L	556	U	OP1-P-O3'	-9.70	83.86	105.20
5	M	538	U	OP1-P-O3'	-9.70	83.87	105.20
1	I	325	A	P-O3'-C3'	-9.69	108.07	119.70
4	L	623	U	P-O3'-C3'	-9.69	108.07	119.70
1	I	52	A	OP2-P-O3'	9.68	126.50	105.20
3	K	50	A	OP2-P-O3'	-9.68	83.91	105.20
2	J	53	A	P-O3'-C3'	-9.67	108.09	119.70
4	L	453	U	O3'-P-O5'	9.67	122.38	104.00
4	L	588	U	OP1-P-O3'	-9.67	83.92	105.20
5	M	467	U	OP1-P-O3'	-9.67	83.93	105.20
2	J	260	A	OP2-P-O3'	9.67	126.47	105.20
3	K	93	A	O3'-P-O5'	-9.66	85.64	104.00
6	N	334	U	O3'-P-O5'	-9.66	85.65	104.00
4	L	689	U	OP1-P-O3'	-9.65	83.96	105.20
1	I	164	A	O3'-P-O5'	9.64	122.32	104.00
2	J	92	A	O3'-P-O5'	9.64	122.33	104.00
4	L	640	U	OP2-P-O3'	-9.64	83.99	105.20
4	L	688	U	O3'-P-O5'	9.64	122.32	104.00
1	I	159	A	OP2-P-O3'	-9.63	84.01	105.20
4	L	451	U	OP2-P-O3'	-9.63	84.01	105.20
3	K	68	A	OP2-P-O3'	-9.63	84.02	105.20
4	L	724	U	OP1-P-O3'	-9.62	84.02	105.20
5	M	429	U	OP2-P-O3'	9.62	126.37	105.20
1	I	241	A	O3'-P-O5'	-9.61	85.73	104.00
1	I	256	A	OP2-P-O3'	9.60	126.32	105.20
6	N	524	U	P-O3'-C3'	9.60	131.22	119.70
4	L	803	U	P-O3'-C3'	-9.59	108.19	119.70
1	I	69	A	OP1-P-O3'	-9.58	84.12	105.20
3	K	215	A	OP1-P-O3'	9.58	126.28	105.20
4	L	454	U	O3'-P-O5'	9.58	122.21	104.00
6	N	384	U	O3'-P-O5'	9.58	122.21	104.00
1	I	363	A	P-O3'-C3'	-9.58	108.21	119.70
5	M	331	U	OP2-P-O3'	9.57	126.26	105.20
6	N	415	U	O3'-P-O5'	-9.57	85.81	104.00
5	M	427	U	OP2-P-O3'	-9.57	84.15	105.20
4	L	795	U	O3'-P-O5'	9.56	122.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	37	A	O3'-P-O5'	9.56	122.16	104.00
4	L	780	U	O3'-P-O5'	9.56	122.16	104.00
1	I	168	A	O3'-P-O5'	9.55	122.15	104.00
2	J	175	A	O3'-P-O5'	-9.55	85.85	104.00
3	K	42	A	OP2-P-O3'	9.55	126.21	105.20
1	I	207	A	OP2-P-O3'	9.55	126.21	105.20
3	K	19	A	P-O3'-C3'	9.55	131.16	119.70
2	J	267	A	P-O3'-C3'	-9.54	108.25	119.70
4	L	645	U	O3'-P-O5'	9.54	122.14	104.00
5	M	304	U	OP1-P-O3'	9.54	126.19	105.20
1	I	214	A	O3'-P-O5'	-9.54	85.88	104.00
4	L	552	U	OP1-P-O3'	9.54	126.18	105.20
3	K	88	A	OP1-P-O3'	-9.54	84.22	105.20
3	K	65	A	OP2-P-O3'	9.53	126.17	105.20
5	M	489	U	OP1-P-O3'	-9.53	84.24	105.20
6	N	351	U	OP2-P-O3'	9.53	126.16	105.20
6	N	403	U	P-O3'-C3'	-9.53	108.27	119.70
4	L	753	U	P-O3'-C3'	-9.52	108.27	119.70
4	L	582	U	P-O3'-C3'	-9.52	108.28	119.70
5	M	369	U	OP1-P-O3'	-9.52	84.26	105.20
1	I	183	A	O3'-P-O5'	9.52	122.08	104.00
1	I	267	A	P-O3'-C3'	-9.51	108.28	119.70
5	M	509	U	OP2-P-O3'	9.51	126.13	105.20
2	J	270	A	O3'-P-O5'	9.51	122.07	104.00
5	M	293	U	P-O3'-C3'	-9.51	108.29	119.70
6	N	302	U	P-O3'-C3'	9.51	131.11	119.70
1	I	294	A	O3'-P-O5'	9.50	122.06	104.00
1	I	333	A	P-O3'-C3'	-9.50	108.30	119.70
4	L	423	U	O3'-P-O5'	-9.50	85.95	104.00
4	L	423	U	OP1-P-O3'	9.50	126.09	105.20
6	N	380	U	OP1-P-O3'	-9.50	84.31	105.20
4	L	506	U	P-O3'-C3'	-9.49	108.32	119.70
5	M	526	U	OP1-P-O3'	-9.48	84.33	105.20
6	N	405	U	O3'-P-O5'	9.48	122.02	104.00
3	K	110	A	OP1-P-O3'	-9.48	84.34	105.20
3	K	163	A	O3'-P-O5'	-9.48	85.98	104.00
2	J	62	A	OP1-P-O3'	-9.48	84.34	105.20
1	I	320	A	OP1-P-O3'	-9.47	84.36	105.20
1	I	6	A	O3'-P-O5'	9.47	122.00	104.00
1	I	147	A	P-O3'-C3'	-9.47	108.33	119.70
6	N	452	U	P-O3'-C3'	-9.47	108.33	119.70
6	N	349	U	O3'-P-O5'	9.47	121.99	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	787	U	OP2-P-O3'	-9.47	84.37	105.20
3	K	34	A	P-O3'-C3'	9.46	131.05	119.70
4	L	595	U	P-O3'-C3'	-9.46	108.35	119.70
1	I	32	A	O3'-P-O5'	9.46	121.97	104.00
3	K	209	A	O3'-P-O5'	-9.45	86.04	104.00
4	L	536	U	OP2-P-O3'	9.45	126.00	105.20
6	N	400	U	OP1-P-O3'	-9.45	84.41	105.20
5	M	395	U	P-O3'-C3'	-9.45	108.36	119.70
6	N	459	U	P-O3'-C3'	9.44	131.03	119.70
6	N	299	U	OP2-P-O3'	-9.44	84.43	105.20
1	I	387	A	OP2-P-O3'	9.44	125.97	105.20
4	L	628	U	P-O3'-C3'	-9.44	108.37	119.70
1	I	386	A	P-O3'-C3'	-9.44	108.38	119.70
1	I	321	A	OP1-P-O3'	-9.43	84.45	105.20
3	K	62	A	OP2-P-O3'	-9.43	84.45	105.20
4	L	594	U	OP2-P-O3'	9.43	125.95	105.20
3	K	171	A	P-O3'-C3'	-9.42	108.39	119.70
1	I	328	A	O3'-P-O5'	-9.42	86.10	104.00
5	M	435	U	OP1-P-O3'	9.42	125.92	105.20
2	J	264	A	O3'-P-O5'	-9.41	86.11	104.00
4	L	436	U	OP2-P-O3'	9.41	125.91	105.20
5	M	436	U	O3'-P-O5'	-9.41	86.12	104.00
6	N	282	U	O3'-P-O5'	9.41	121.88	104.00
1	I	260	A	OP1-P-O3'	-9.41	84.51	105.20
4	L	674	U	OP1-P-O3'	-9.40	84.51	105.20
3	K	170	A	OP2-P-O3'	9.40	125.88	105.20
5	M	413	U	O3'-P-O5'	9.40	121.86	104.00
6	N	334	U	P-O3'-C3'	-9.39	108.43	119.70
1	I	87	A	OP2-P-O3'	9.39	125.85	105.20
2	J	233	A	OP2-P-O3'	9.39	125.86	105.20
1	I	108	A	P-O3'-C3'	-9.38	108.44	119.70
1	I	218	A	OP2-P-O3'	-9.38	84.56	105.20
1	I	36	A	O3'-P-O5'	9.37	121.81	104.00
3	K	188	A	OP2-P-O3'	-9.37	84.58	105.20
4	L	568	U	P-O3'-C3'	-9.37	108.46	119.70
4	L	773	U	P-O3'-C3'	-9.37	108.46	119.70
6	N	458	U	OP1-P-O3'	9.36	125.80	105.20
1	I	53	A	P-O3'-C3'	-9.36	108.47	119.70
2	J	218	A	P-O3'-C3'	-9.36	108.47	119.70
2	J	101	A	O3'-P-O5'	-9.35	86.23	104.00
6	N	362	U	OP2-P-O3'	9.35	125.77	105.20
4	L	433	U	OP1-P-O3'	9.34	125.76	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	401	U	O3'-P-O5'	-9.34	86.25	104.00
5	M	539	U	OP1-P-O3'	-9.34	84.65	105.20
4	L	720	U	P-O3'-C3'	-9.34	108.50	119.70
5	M	367	U	OP2-P-O3'	9.34	125.74	105.20
6	N	358	U	OP2-P-O3'	-9.33	84.68	105.20
1	I	388	A	OP2-P-O3'	9.33	125.72	105.20
1	I	23	A	P-O3'-C3'	-9.32	108.52	119.70
2	J	99	A	P-O3'-C3'	-9.32	108.52	119.70
1	I	200	A	O3'-P-O5'	9.31	121.70	104.00
3	K	195	A	OP1-P-O3'	9.31	125.69	105.20
1	I	183	A	P-O3'-C3'	-9.31	108.53	119.70
6	N	369	U	O3'-P-O5'	9.31	121.69	104.00
6	N	424	U	P-O3'-C3'	-9.31	108.53	119.70
3	K	142	A	P-O3'-C3'	9.30	130.87	119.70
1	I	368	A	OP2-P-O3'	-9.29	84.75	105.20
4	L	498	U	OP1-P-O3'	-9.29	84.76	105.20
6	N	349	U	OP1-P-O3'	9.29	125.64	105.20
2	J	85	A	P-O3'-C3'	-9.29	108.55	119.70
1	I	303	A	OP1-P-O3'	-9.29	84.77	105.20
2	J	219	A	OP2-P-O3'	9.29	125.63	105.20
4	L	594	U	P-O3'-C3'	-9.29	108.56	119.70
5	M	443	U	OP2-P-O3'	-9.29	84.77	105.20
1	I	271	A	P-O3'-C3'	-9.28	108.56	119.70
4	L	708	U	P-O3'-C3'	-9.28	108.56	119.70
3	K	75	A	OP2-P-O3'	9.28	125.62	105.20
1	I	370	A	O3'-P-O5'	9.27	121.62	104.00
2	J	95	A	P-O3'-C3'	-9.27	108.57	119.70
3	K	206	A	OP2-P-O3'	9.27	125.60	105.20
3	K	105	A	OP2-P-O3'	9.27	125.59	105.20
1	I	171	A	O3'-P-O5'	9.27	121.61	104.00
4	L	640	U	O3'-P-O5'	9.26	121.59	104.00
4	L	526	U	P-O3'-C3'	-9.26	108.59	119.70
6	N	310	U	OP2-P-O3'	9.26	125.57	105.20
6	N	329	U	OP1-P-O3'	9.26	125.57	105.20
6	N	366	U	OP2-P-O3'	-9.26	84.84	105.20
2	J	88	A	OP1-P-O3'	-9.25	84.85	105.20
3	K	113	A	OP2-P-O3'	9.25	125.54	105.20
2	J	198	A	P-O3'-C3'	-9.24	108.61	119.70
2	J	138	A	P-O3'-C3'	-9.24	108.61	119.70
6	N	398	U	P-O3'-C3'	-9.24	108.62	119.70
1	I	139	A	O3'-P-O5'	9.23	121.54	104.00
2	J	34	A	P-O3'-C3'	-9.23	108.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	813	U	P-O3'-C3'	-9.23	108.62	119.70
5	M	318	U	OP1-P-O3'	-9.23	84.89	105.20
1	I	390	A	OP2-P-O3'	-9.23	84.90	105.20
3	K	61	A	O3'-P-O5'	9.23	121.53	104.00
6	N	276	U	P-O3'-C3'	-9.22	108.63	119.70
1	I	259	A	OP1-P-O3'	-9.22	84.91	105.20
1	I	207	A	P-O3'-C3'	-9.21	108.64	119.70
5	M	520	U	O3'-P-O5'	-9.21	86.49	104.00
6	N	364	U	OP2-P-O3'	-9.21	84.94	105.20
2	J	269	A	OP2-P-O3'	-9.21	84.94	105.20
4	L	769	U	O3'-P-O5'	9.21	121.50	104.00
4	L	761	U	P-O3'-C3'	-9.21	108.65	119.70
1	I	28	A	P-O3'-C3'	-9.21	108.65	119.70
1	I	361	A	OP2-P-O3'	9.20	125.45	105.20
3	K	226	A	OP2-P-O3'	-9.21	84.95	105.20
5	M	329	U	OP1-P-O3'	-9.20	84.95	105.20
1	I	24	A	P-O3'-C3'	-9.20	108.66	119.70
3	K	104	A	O3'-P-O5'	-9.19	86.54	104.00
4	L	463	U	OP2-P-O3'	9.19	125.42	105.20
4	L	775	U	OP2-P-O3'	9.19	125.41	105.20
6	N	402	U	P-O3'-C3'	-9.19	108.67	119.70
1	I	223	A	OP2-P-O3'	9.19	125.41	105.20
1	I	364	A	O3'-P-O5'	9.18	121.45	104.00
6	N	313	U	OP1-P-O3'	9.18	125.40	105.20
2	J	203	A	P-O3'-C3'	-9.18	108.69	119.70
1	I	343	A	OP2-P-O3'	9.18	125.38	105.20
2	J	168	A	OP1-P-O3'	9.18	125.38	105.20
3	K	171	A	OP2-P-O3'	-9.18	85.01	105.20
1	I	155	A	OP2-P-O3'	-9.17	85.02	105.20
2	J	122	A	P-O3'-C3'	-9.17	108.69	119.70
3	K	35	A	P-O3'-C3'	-9.17	108.69	119.70
6	N	426	U	OP1-P-O3'	-9.17	85.03	105.20
5	M	545	U	P-O3'-C3'	9.17	130.70	119.70
4	L	787	U	P-O3'-C3'	-9.16	108.71	119.70
1	I	292	A	OP1-P-O3'	-9.16	85.06	105.20
5	M	481	U	OP1-P-O3'	9.16	125.34	105.20
1	I	306	A	OP1-P-O3'	-9.15	85.06	105.20
5	M	347	U	O3'-P-O5'	-9.15	86.61	104.00
1	I	272	A	OP1-P-O3'	9.14	125.32	105.20
1	I	336	A	OP2-P-O3'	9.14	125.31	105.20
1	I	190	A	OP2-P-O3'	9.14	125.30	105.20
4	L	590	U	OP2-P-O3'	9.13	125.30	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	486	U	O3'-P-O5'	9.13	121.35	104.00
2	J	108	A	O3'-P-O5'	9.13	121.34	104.00
1	I	116	A	P-O3'-C3'	-9.12	108.75	119.70
2	J	117	A	OP1-P-O3'	9.12	125.27	105.20
4	L	575	U	OP2-P-O3'	9.12	125.26	105.20
4	L	545	U	OP2-P-O3'	9.12	125.26	105.20
1	I	410	A	OP2-P-O3'	-9.12	85.15	105.20
3	K	136	A	OP1-P-O3'	-9.12	85.15	105.20
5	M	338	U	OP2-P-O3'	-9.12	85.15	105.20
2	J	59	A	O3'-P-O5'	9.11	121.31	104.00
4	L	657	U	P-O3'-C3'	-9.11	108.77	119.70
6	N	292	U	O3'-P-O5'	-9.11	86.69	104.00
2	J	178	A	OP2-P-O3'	9.11	125.23	105.20
1	I	1	A	O3'-P-O5'	9.10	121.30	104.00
3	K	224	A	OP1-P-O3'	9.10	125.22	105.20
4	L	726	U	P-O3'-C3'	-9.10	108.78	119.70
5	M	306	U	OP2-P-O3'	9.10	125.21	105.20
4	L	606	U	OP2-P-O3'	9.09	125.21	105.20
1	I	307	A	OP2-P-O3'	9.09	125.19	105.20
3	K	234	A	OP2-P-O3'	-9.08	85.22	105.20
4	L	607	U	P-O3'-C3'	-9.08	108.80	119.70
3	K	99	A	O3'-P-O5'	-9.08	86.75	104.00
5	M	446	U	O3'-P-O5'	9.08	121.25	104.00
6	N	514	U	P-O3'-C3'	-9.08	108.81	119.70
2	J	248	A	O3'-P-O5'	-9.07	86.76	104.00
5	M	543	U	O3'-P-O5'	-9.07	86.76	104.00
2	J	51	A	OP2-P-O3'	9.07	125.15	105.20
4	L	489	U	OP1-P-O3'	9.07	125.14	105.20
5	M	498	U	O3'-P-O5'	9.07	121.23	104.00
3	K	244	A	OP2-P-O3'	-9.06	85.26	105.20
3	K	63	A	O3'-P-O5'	9.06	121.22	104.00
5	M	285	U	O3'-P-O5'	9.06	121.22	104.00
2	J	22	A	P-O3'-C3'	-9.06	108.83	119.70
1	I	79	A	OP2-P-O3'	9.05	125.12	105.20
6	N	483	U	OP1-P-O3'	9.05	125.12	105.20
5	M	351	U	P-O3'-C3'	-9.05	108.84	119.70
1	I	354	A	O3'-P-O5'	-9.05	86.81	104.00
3	K	250	A	OP2-P-O3'	9.05	125.11	105.20
4	L	458	U	O3'-P-O5'	-9.04	86.81	104.00
5	M	465	U	O3'-P-O5'	-9.04	86.82	104.00
4	L	677	U	OP2-P-O3'	9.04	125.08	105.20
4	L	558	U	OP2-P-O3'	9.03	125.07	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	641	U	O3'-P-O5'	9.03	121.16	104.00
1	I	238	A	OP1-P-O3'	9.03	125.05	105.20
1	I	100	A	O3'-P-O5'	-9.02	86.86	104.00
3	K	70	A	O3'-P-O5'	-9.02	86.87	104.00
5	M	374	U	O3'-P-O5'	9.02	121.14	104.00
3	K	91	A	OP2-P-O3'	9.02	125.04	105.20
6	N	272	U	OP1-P-O3'	9.01	125.03	105.20
1	I	257	A	OP2-P-O3'	9.01	125.02	105.20
1	I	382	A	O3'-P-O5'	9.01	121.11	104.00
3	K	227	A	O3'-P-O5'	-9.01	86.89	104.00
4	L	506	U	OP2-P-O3'	9.00	125.01	105.20
2	J	191	A	OP2-P-O3'	9.00	125.00	105.20
2	J	238	A	P-O3'-C3'	-9.00	108.90	119.70
2	J	225	A	OP2-P-O3'	-9.00	85.40	105.20
1	I	377	A	O3'-P-O5'	9.00	121.09	104.00
2	J	41	A	OP1-P-O3'	8.99	124.99	105.20
1	I	258	A	OP2-P-O3'	8.99	124.98	105.20
4	L	489	U	P-O3'-C3'	-8.99	108.92	119.70
1	I	37	A	P-O3'-C3'	-8.98	108.92	119.70
2	J	51	A	P-O3'-C3'	-8.98	108.92	119.70
2	J	255	A	O3'-P-O5'	8.98	121.06	104.00
4	L	509	U	P-O3'-C3'	-8.98	108.92	119.70
1	I	9	A	O3'-P-O5'	8.97	121.05	104.00
4	L	814	U	OP1-P-O3'	-8.97	85.46	105.20
1	I	122	A	OP2-P-O3'	8.97	124.94	105.20
3	K	129	A	OP2-P-O3'	8.97	124.94	105.20
4	L	508	U	O3'-P-O5'	-8.97	86.96	104.00
3	K	13	A	O3'-P-O5'	-8.97	86.96	104.00
1	I	181	A	O3'-P-O5'	-8.96	86.97	104.00
4	L	604	U	OP1-P-O3'	-8.96	85.49	105.20
6	N	296	U	OP2-P-O3'	-8.95	85.50	105.20
4	L	525	U	O3'-P-O5'	-8.95	86.99	104.00
3	K	150	A	P-O3'-C3'	-8.95	108.96	119.70
4	L	645	U	OP2-P-O3'	-8.95	85.52	105.20
3	K	202	A	OP1-P-O3'	8.94	124.87	105.20
6	N	422	U	OP2-P-O3'	8.94	124.87	105.20
1	I	362	A	O3'-P-O5'	-8.94	87.02	104.00
1	I	159	A	P-O3'-C3'	-8.93	108.98	119.70
2	J	243	A	OP2-P-O3'	-8.92	85.57	105.20
5	M	476	U	OP2-P-O3'	8.92	124.83	105.20
6	N	418	U	OP2-P-O3'	-8.92	85.57	105.20
1	I	79	A	OP1-P-O3'	-8.92	85.58	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	287	U	OP2-P-O3'	8.92	124.83	105.20
2	J	247	A	OP2-P-O3'	-8.92	85.58	105.20
5	M	282	U	O3'-P-O5'	8.92	120.94	104.00
4	L	575	U	OP1-P-O3'	-8.91	85.61	105.20
4	L	591	U	O3'-P-O5'	8.91	120.92	104.00
1	I	335	A	O3'-P-O5'	-8.90	87.08	104.00
4	L	429	U	OP1-P-O3'	8.90	124.79	105.20
6	N	355	U	O3'-P-O5'	8.90	120.92	104.00
5	M	321	U	P-O3'-C3'	-8.90	109.02	119.70
3	K	30	A	O3'-P-O5'	8.90	120.90	104.00
4	L	712	U	OP1-P-O3'	-8.90	85.63	105.20
3	K	153	A	O3'-P-O5'	8.89	120.90	104.00
6	N	380	U	OP2-P-O3'	8.89	124.76	105.20
3	K	181	A	OP1-P-O3'	8.89	124.76	105.20
1	I	123	A	P-O3'-C3'	-8.88	109.04	119.70
2	J	146	A	O3'-P-O5'	-8.88	87.13	104.00
1	I	15	A	OP1-P-O3'	-8.88	85.67	105.20
5	M	336	U	OP1-P-O3'	-8.88	85.67	105.20
2	J	16	A	P-O3'-C3'	-8.88	109.05	119.70
1	I	222	A	O3'-P-O5'	-8.88	87.14	104.00
1	I	121	A	OP2-P-O3'	-8.87	85.68	105.20
4	L	490	U	P-O3'-C3'	-8.87	109.05	119.70
2	J	87	A	P-O3'-C3'	-8.87	109.06	119.70
4	L	493	U	P-O3'-C3'	-8.87	109.05	119.70
5	M	380	U	OP1-P-O3'	8.87	124.72	105.20
5	M	386	U	OP1-P-O3'	8.87	124.72	105.20
3	K	109	A	O3'-P-O5'	-8.86	87.16	104.00
2	J	48	A	O3'-P-O5'	-8.86	87.17	104.00
3	K	253	A	O3'-P-O5'	-8.86	87.17	104.00
4	L	520	U	OP1-P-O3'	-8.86	85.71	105.20
4	L	681	U	P-O3'-C3'	8.86	130.33	119.70
1	I	300	A	OP2-P-O3'	-8.86	85.72	105.20
6	N	465	U	OP2-P-O3'	-8.86	85.72	105.20
5	M	514	U	OP1-P-O3'	-8.84	85.74	105.20
1	I	255	A	OP1-P-O3'	-8.84	85.75	105.20
5	M	313	U	O3'-P-O5'	8.84	120.80	104.00
4	L	614	U	O3'-P-O5'	-8.84	87.21	104.00
6	N	477	U	OP1-P-O3'	-8.84	85.76	105.20
1	I	304	A	OP1-P-O3'	-8.84	85.76	105.20
1	I	409	A	OP1-P-O3'	8.84	124.64	105.20
2	J	140	A	OP2-P-O3'	8.83	124.63	105.20
4	L	671	U	P-O3'-C3'	-8.83	109.10	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	167	A	OP1-P-O3'	-8.83	85.78	105.20
4	L	650	U	OP1-P-O3'	-8.83	85.78	105.20
2	J	156	A	P-O3'-C3'	-8.82	109.11	119.70
2	J	264	A	OP2-P-O3'	8.82	124.61	105.20
3	K	152	A	OP1-P-O3'	8.82	124.61	105.20
6	N	496	U	P-O3'-C3'	-8.82	109.11	119.70
1	I	187	A	OP2-P-O3'	8.82	124.60	105.20
2	J	206	A	O3'-P-O5'	-8.82	87.25	104.00
4	L	670	U	O3'-P-O5'	-8.82	87.25	104.00
2	J	128	A	OP1-P-O3'	-8.81	85.81	105.20
2	J	253	A	O3'-P-O5'	-8.81	87.26	104.00
3	K	166	A	OP1-P-O3'	-8.81	85.82	105.20
6	N	409	U	O3'-P-O5'	8.81	120.74	104.00
2	J	218	A	OP2-P-O3'	8.81	124.58	105.20
3	K	55	A	OP2-P-O3'	-8.80	85.83	105.20
4	L	543	U	OP1-P-O3'	8.80	124.57	105.20
2	J	163	A	P-O3'-C3'	8.80	130.26	119.70
5	M	393	U	P-O3'-C3'	-8.80	109.14	119.70
4	L	612	U	OP2-P-O3'	8.80	124.56	105.20
1	I	215	A	P-O3'-C3'	-8.79	109.15	119.70
3	K	256	A	OP2-P-O3'	8.79	124.54	105.20
4	L	634	U	OP1-P-O3'	-8.79	85.86	105.20
2	J	233	A	P-O3'-C3'	-8.79	109.15	119.70
4	L	688	U	OP1-P-O3'	-8.79	85.87	105.20
1	I	173	A	O3'-P-O5'	8.78	120.69	104.00
3	K	83	A	OP2-P-O3'	-8.78	85.89	105.20
5	M	525	U	OP1-P-O3'	-8.77	85.91	105.20
4	L	698	U	O3'-P-O5'	-8.77	87.34	104.00
5	M	303	U	O3'-P-O5'	8.77	120.66	104.00
5	M	493	U	P-O3'-C3'	-8.77	109.18	119.70
2	J	66	A	O3'-P-O5'	8.76	120.65	104.00
3	K	47	A	OP1-P-O3'	8.76	124.48	105.20
5	M	352	U	OP2-P-O3'	-8.76	85.92	105.20
6	N	371	U	O3'-P-O5'	8.76	120.65	104.00
4	L	487	U	OP1-P-O3'	-8.76	85.93	105.20
1	I	11	A	P-O3'-C3'	-8.75	109.20	119.70
4	L	581	U	P-O3'-C3'	-8.75	109.20	119.70
2	J	166	A	O3'-P-O5'	8.74	120.61	104.00
5	M	404	U	P-O3'-C3'	-8.74	109.21	119.70
2	J	12	A	OP2-P-O3'	8.74	124.42	105.20
2	J	26	A	OP2-P-O3'	8.73	124.42	105.20
2	J	52	A	O3'-P-O5'	-8.73	87.41	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	284	A	OP2-P-O3'	8.73	124.40	105.20
2	J	168	A	O3'-P-O5'	8.73	120.58	104.00
5	M	501	U	OP1-P-O3'	8.73	124.40	105.20
2	J	211	A	OP1-P-O3'	-8.72	86.01	105.20
1	I	72	A	OP1-P-O3'	-8.72	86.02	105.20
2	J	245	A	OP2-P-O3'	8.72	124.37	105.20
2	J	226	A	P-O3'-C3'	-8.71	109.25	119.70
1	I	33	A	OP2-P-O3'	8.71	124.36	105.20
4	L	736	U	P-O3'-C3'	-8.70	109.26	119.70
2	J	224	A	O3'-P-O5'	8.70	120.53	104.00
4	L	561	U	OP1-P-O3'	-8.70	86.06	105.20
4	L	601	U	O3'-P-O5'	-8.70	87.47	104.00
1	I	238	A	P-O3'-C3'	-8.70	109.26	119.70
4	L	750	U	OP1-P-O3'	8.70	124.33	105.20
1	I	44	A	OP1-P-O3'	-8.69	86.07	105.20
1	I	221	A	O3'-P-O5'	8.70	120.52	104.00
5	M	469	U	OP1-P-O3'	8.69	124.33	105.20
3	K	53	A	OP2-P-O3'	-8.67	86.12	105.20
3	K	4	A	O3'-P-O5'	-8.67	87.53	104.00
5	M	521	U	OP2-P-O3'	8.67	124.28	105.20
1	I	199	A	O3'-P-O5'	8.67	120.47	104.00
4	L	690	U	P-O3'-C3'	-8.66	109.31	119.70
5	M	470	U	O3'-P-O5'	8.66	120.45	104.00
6	N	322	U	O3'-P-O5'	-8.65	87.56	104.00
3	K	136	A	OP2-P-O3'	8.65	124.23	105.20
3	K	42	A	O3'-P-O5'	-8.65	87.57	104.00
4	L	619	U	O3'-P-O5'	8.65	120.43	104.00
4	L	622	U	OP1-P-O3'	-8.64	86.19	105.20
3	K	196	A	OP2-P-O3'	-8.64	86.20	105.20
6	N	452	U	OP2-P-O3'	8.64	124.20	105.20
2	J	75	A	OP2-P-O3'	8.63	124.19	105.20
5	M	490	U	P-O3'-C3'	-8.62	109.35	119.70
6	N	363	U	O3'-P-O5'	8.62	120.39	104.00
1	I	177	A	P-O3'-C3'	8.62	130.05	119.70
2	J	24	A	P-O3'-C3'	-8.62	109.35	119.70
2	J	126	A	OP2-P-O3'	8.62	124.16	105.20
3	K	107	A	P-O3'-C3'	-8.61	109.37	119.70
6	N	497	U	OP1-P-O3'	-8.61	86.25	105.20
4	L	768	U	P-O3'-C3'	-8.61	109.37	119.70
5	M	475	U	OP2-P-O3'	-8.61	86.26	105.20
2	J	232	A	P-O3'-C3'	-8.61	109.37	119.70
1	I	335	A	OP1-P-O3'	8.61	124.13	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	184	A	O3'-P-O5'	8.60	120.35	104.00
4	L	574	U	OP1-P-O3'	8.60	124.12	105.20
5	M	415	U	P-O3'-C3'	-8.60	109.38	119.70
6	N	368	U	O3'-P-O5'	8.59	120.33	104.00
3	K	18	A	OP1-P-O3'	8.59	124.10	105.20
1	I	111	A	O3'-P-O5'	-8.59	87.68	104.00
1	I	403	A	P-O3'-C3'	8.59	130.01	119.70
2	J	94	A	OP1-P-O3'	-8.59	86.30	105.20
2	J	21	A	OP1-P-O3'	-8.59	86.31	105.20
2	J	27	A	O3'-P-O5'	8.59	120.32	104.00
3	K	144	A	OP1-P-O3'	8.58	124.08	105.20
5	M	435	U	O3'-P-O5'	8.58	120.31	104.00
2	J	266	A	O3'-P-O5'	8.58	120.30	104.00
2	J	28	A	O3'-P-O5'	-8.57	87.71	104.00
4	L	442	U	O3'-P-O5'	8.57	120.29	104.00
4	L	491	U	P-O3'-C3'	-8.57	109.42	119.70
3	K	162	A	P-O3'-C3'	-8.57	109.42	119.70
6	N	487	U	P-O3'-C3'	-8.57	109.42	119.70
1	I	233	A	O3'-P-O5'	-8.56	87.73	104.00
4	L	682	U	P-O3'-C3'	8.56	129.97	119.70
5	M	376	U	P-O3'-C3'	-8.56	109.43	119.70
3	K	94	A	OP2-P-O3'	8.56	124.03	105.20
5	M	457	U	OP1-P-O3'	-8.56	86.38	105.20
3	K	58	A	OP1-P-O3'	8.56	124.02	105.20
2	J	64	A	OP2-P-O3'	8.55	124.02	105.20
1	I	138	A	OP1-P-O3'	-8.55	86.39	105.20
5	M	297	U	OP1-P-O3'	-8.55	86.40	105.20
3	K	107	A	OP2-P-O3'	8.54	124.00	105.20
1	I	214	A	P-O3'-C3'	-8.53	109.46	119.70
1	I	68	A	O3'-P-O5'	-8.53	87.80	104.00
2	J	100	A	P-O3'-C3'	-8.53	109.47	119.70
4	L	596	U	OP2-P-O3'	8.53	123.95	105.20
5	M	296	U	OP1-P-O3'	-8.52	86.45	105.20
6	N	325	U	P-O3'-C3'	8.52	129.93	119.70
1	I	166	A	OP2-P-O3'	8.52	123.94	105.20
2	J	58	A	OP2-P-O3'	8.52	123.94	105.20
2	J	120	A	O3'-P-O5'	8.52	120.18	104.00
5	M	307	U	OP2-P-O3'	-8.52	86.46	105.20
5	M	359	U	OP2-P-O3'	-8.51	86.47	105.20
5	M	348	U	OP2-P-O3'	8.51	123.93	105.20
4	L	535	U	OP2-P-O3'	8.51	123.92	105.20
3	K	87	A	O3'-P-O5'	8.51	120.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	500	U	O3'-P-O5'	8.51	120.17	104.00
6	N	460	U	P-O3'-C3'	8.50	129.90	119.70
5	M	486	U	OP1-P-O3'	-8.50	86.50	105.20
6	N	303	U	O3'-P-O5'	-8.50	87.85	104.00
3	K	159	A	O3'-P-O5'	8.50	120.14	104.00
6	N	335	U	OP1-P-O3'	8.49	123.88	105.20
1	I	55	A	OP1-P-O3'	-8.49	86.53	105.20
3	K	184	A	OP2-P-O3'	-8.49	86.53	105.20
5	M	427	U	O3'-P-O5'	8.49	120.13	104.00
5	M	387	U	OP1-P-O3'	8.48	123.86	105.20
5	M	438	U	OP1-P-O3'	-8.48	86.55	105.20
2	J	153	A	OP1-P-O3'	-8.47	86.56	105.20
1	I	316	A	O3'-P-O5'	-8.47	87.91	104.00
1	I	333	A	OP1-P-O3'	-8.47	86.57	105.20
4	L	483	U	OP2-P-O3'	8.47	123.83	105.20
6	N	460	U	OP1-P-O3'	8.47	123.82	105.20
1	I	35	A	P-O3'-C3'	-8.46	109.54	119.70
2	J	21	A	OP2-P-O3'	8.46	123.82	105.20
1	I	101	A	OP1-P-O3'	8.45	123.80	105.20
4	L	784	U	OP2-P-O3'	-8.46	86.60	105.20
4	L	708	U	O3'-P-O5'	8.45	120.06	104.00
1	I	265	A	O3'-P-O5'	-8.45	87.95	104.00
3	K	228	A	OP1-P-O3'	8.45	123.79	105.20
3	K	3	A	OP1-P-O3'	8.44	123.78	105.20
1	I	397	A	OP1-P-O3'	8.44	123.77	105.20
1	I	88	A	P-O3'-C3'	-8.44	109.58	119.70
6	N	512	U	OP1-P-O3'	8.43	123.75	105.20
2	J	67	A	OP1-P-O3'	-8.43	86.66	105.20
3	K	24	A	OP2-P-O3'	-8.41	86.70	105.20
4	L	658	U	OP2-P-O3'	8.41	123.69	105.20
2	J	227	A	P-O3'-C3'	-8.40	109.62	119.70
3	K	208	A	OP2-P-O3'	-8.40	86.72	105.20
2	J	35	A	O3'-P-O5'	8.40	119.95	104.00
1	I	57	A	OP1-P-O3'	8.39	123.65	105.20
4	L	670	U	OP2-P-O3'	8.39	123.65	105.20
2	J	119	A	OP1-P-O3'	8.38	123.64	105.20
2	J	36	A	OP2-P-O3'	8.38	123.63	105.20
2	J	196	A	OP2-P-O3'	-8.38	86.77	105.20
4	L	814	U	O3'-P-O5'	-8.38	88.08	104.00
5	M	504	U	O3'-P-O5'	-8.38	88.08	104.00
5	M	549	U	P-O3'-C3'	8.37	129.75	119.70
3	K	174	A	OP2-P-O3'	8.37	123.62	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	573	U	OP2-P-O3'	8.37	123.62	105.20
2	J	141	A	P-O3'-C3'	-8.37	109.66	119.70
3	K	86	A	OP1-P-O3'	-8.37	86.80	105.20
3	K	172	A	P-O3'-C3'	-8.37	109.66	119.70
6	N	379	U	OP1-P-O3'	-8.36	86.80	105.20
1	I	318	A	P-O3'-C3'	-8.36	109.67	119.70
1	I	132	A	OP1-P-O3'	-8.35	86.83	105.20
1	I	295	A	O3'-P-O5'	8.35	119.87	104.00
2	J	136	A	OP2-P-O3'	-8.35	86.83	105.20
1	I	363	A	OP2-P-O3'	8.35	123.57	105.20
3	K	76	A	O3'-P-O5'	-8.35	88.13	104.00
6	N	511	U	P-O3'-C3'	8.35	129.72	119.70
1	I	276	A	OP2-P-O3'	8.35	123.56	105.20
2	J	187	A	OP1-P-O3'	-8.35	86.84	105.20
4	L	609	U	O3'-P-O5'	8.35	119.86	104.00
5	M	432	U	P-O3'-C3'	-8.35	109.68	119.70
5	M	513	U	OP2-P-O3'	8.35	123.56	105.20
5	M	314	U	OP2-P-O3'	-8.34	86.84	105.20
1	I	61	A	OP2-P-O3'	8.34	123.55	105.20
4	L	477	U	O3'-P-O5'	-8.34	88.16	104.00
4	L	454	U	OP2-P-O3'	-8.33	86.87	105.20
4	L	461	U	P-O3'-C3'	-8.33	109.70	119.70
5	M	329	U	OP2-P-O3'	-8.33	86.88	105.20
6	N	433	U	P-O3'-C3'	8.33	129.69	119.70
4	L	567	U	O3'-P-O5'	8.33	119.82	104.00
5	M	460	U	OP2-P-O3'	8.32	123.52	105.20
3	K	112	A	OP2-P-O3'	-8.32	86.90	105.20
1	I	174	A	OP2-P-O3'	8.32	123.50	105.20
3	K	115	A	OP1-P-O3'	8.32	123.50	105.20
5	M	459	U	O3'-P-O5'	-8.32	88.19	104.00
1	I	182	A	OP1-P-O3'	-8.31	86.91	105.20
5	M	452	U	P-O3'-C3'	-8.31	109.72	119.70
1	I	246	A	P-O3'-C3'	-8.31	109.73	119.70
4	L	802	U	O3'-P-O5'	-8.31	88.21	104.00
4	L	668	U	P-O3'-C3'	8.31	129.67	119.70
6	N	357	U	P-O3'-C3'	-8.31	109.73	119.70
3	K	57	A	O3'-P-O5'	-8.31	88.22	104.00
1	I	230	A	OP1-P-O3'	-8.30	86.95	105.20
4	L	639	U	OP1-P-O3'	-8.29	86.97	105.20
6	N	303	U	OP2-P-O3'	-8.28	86.97	105.20
1	I	66	A	OP1-P-O3'	-8.28	86.99	105.20
1	I	306	A	O3'-P-O5'	8.28	119.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	201	A	P-O3'-C3'	8.28	129.63	119.70
5	M	360	U	OP2-P-O3'	-8.28	86.99	105.20
2	J	220	A	OP2-P-O3'	8.27	123.39	105.20
1	I	281	A	O3'-P-O5'	-8.27	88.29	104.00
5	M	523	U	P-O3'-C3'	-8.27	109.78	119.70
1	I	26	A	OP1-P-O3'	-8.27	87.02	105.20
3	K	196	A	OP1-P-O3'	8.27	123.38	105.20
3	K	229	A	O3'-P-O5'	-8.27	88.29	104.00
1	I	98	A	O3'-P-O5'	8.26	119.70	104.00
4	L	626	U	O3'-P-O5'	8.26	119.69	104.00
1	I	295	A	P-O3'-C3'	-8.26	109.79	119.70
5	M	312	U	O3'-P-O5'	8.26	119.69	104.00
3	K	105	A	P-O3'-C3'	-8.26	109.79	119.70
4	L	666	U	OP2-P-O3'	8.25	123.35	105.20
4	L	540	U	OP2-P-O3'	-8.25	87.05	105.20
5	M	424	U	P-O3'-C3'	-8.25	109.81	119.70
5	M	294	U	P-O3'-C3'	-8.24	109.81	119.70
3	K	229	A	OP1-P-O3'	8.24	123.33	105.20
5	M	471	U	O3'-P-O5'	8.24	119.65	104.00
3	K	90	A	OP1-P-O3'	-8.24	87.08	105.20
5	M	490	U	OP2-P-O3'	-8.23	87.09	105.20
4	L	564	U	OP2-P-O3'	8.23	123.31	105.20
1	I	144	A	OP1-P-O3'	8.23	123.30	105.20
3	K	71	A	P-O3'-C3'	8.23	129.57	119.70
4	L	631	U	OP2-P-O3'	-8.23	87.10	105.20
3	K	56	A	OP2-P-O3'	8.22	123.29	105.20
4	L	729	U	OP1-P-O3'	8.22	123.28	105.20
4	L	510	U	P-O3'-C3'	-8.22	109.84	119.70
1	I	353	A	O3'-P-O5'	-8.21	88.41	104.00
2	J	238	A	O3'-P-O5'	8.21	119.59	104.00
1	I	172	A	O3'-P-O5'	8.20	119.59	104.00
6	N	469	U	P-O3'-C3'	-8.20	109.86	119.70
4	L	488	U	P-O3'-C3'	-8.20	109.86	119.70
4	L	654	U	O3'-P-O5'	8.20	119.58	104.00
4	L	805	U	P-O3'-C3'	-8.20	109.86	119.70
4	L	772	U	P-O3'-C3'	-8.19	109.87	119.70
5	M	283	U	OP2-P-O3'	-8.19	87.18	105.20
1	I	320	A	OP2-P-O3'	8.19	123.22	105.20
4	L	778	U	P-O3'-C3'	-8.19	109.87	119.70
4	L	749	U	O3'-P-O5'	8.19	119.56	104.00
3	K	213	A	OP2-P-O3'	8.19	123.21	105.20
5	M	412	U	P-O3'-C3'	-8.19	109.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	72	A	O3'-P-O5'	-8.19	88.45	104.00
6	N	299	U	O3'-P-O5'	8.18	119.55	104.00
5	M	385	U	OP2-P-O3'	-8.18	87.20	105.20
6	N	339	U	OP2-P-O3'	8.18	123.20	105.20
4	L	679	U	OP2-P-O3'	-8.18	87.22	105.20
5	M	549	U	OP2-P-O3'	-8.17	87.22	105.20
1	I	225	A	OP1-P-O3'	8.17	123.18	105.20
4	L	572	U	O3'-P-O5'	8.17	119.52	104.00
4	L	664	U	O3'-P-O5'	8.17	119.52	104.00
4	L	785	U	OP2-P-O3'	-8.17	87.23	105.20
2	J	145	A	OP2-P-O3'	8.16	123.16	105.20
6	N	282	U	P-O3'-C3'	-8.16	109.90	119.70
4	L	522	U	OP1-P-O3'	-8.16	87.25	105.20
4	L	634	U	O3'-P-O5'	-8.16	88.50	104.00
4	L	482	U	O3'-P-O5'	8.15	119.49	104.00
5	M	448	U	OP1-P-O3'	-8.15	87.26	105.20
6	N	331	U	OP1-P-O3'	8.15	123.14	105.20
1	I	158	A	O3'-P-O5'	8.15	119.48	104.00
3	K	188	A	P-O3'-C3'	8.14	129.47	119.70
4	L	593	U	O3'-P-O5'	-8.14	88.53	104.00
2	J	165	A	OP1-P-O3'	8.13	123.09	105.20
4	L	566	U	O3'-P-O5'	8.13	119.45	104.00
2	J	84	A	OP1-P-O3'	-8.13	87.31	105.20
6	N	407	U	OP2-P-O3'	8.13	123.08	105.20
4	L	569	U	P-O3'-C3'	-8.12	109.95	119.70
2	J	12	A	OP1-P-O3'	-8.12	87.33	105.20
5	M	372	U	OP1-P-O3'	-8.12	87.35	105.20
1	I	22	A	O3'-P-O5'	-8.11	88.59	104.00
3	K	19	A	OP1-P-O3'	8.11	123.04	105.20
2	J	45	A	OP1-P-O3'	-8.11	87.37	105.20
6	N	318	U	OP2-P-O3'	-8.11	87.37	105.20
1	I	195	A	O3'-P-O5'	8.10	119.40	104.00
1	I	119	A	OP2-P-O3'	8.10	123.02	105.20
4	L	820	U	O3'-P-O5'	-8.10	88.61	104.00
1	I	123	A	OP2-P-O3'	8.10	123.02	105.20
1	I	169	A	P-O3'-C3'	-8.10	109.98	119.70
2	J	214	A	OP1-P-O3'	-8.10	87.39	105.20
1	I	253	A	OP1-P-O3'	8.09	123.00	105.20
3	K	148	A	P-O3'-C3'	8.09	129.41	119.70
4	L	725	U	OP2-P-O3'	8.09	123.00	105.20
3	K	204	A	P-O3'-C3'	-8.08	110.00	119.70
5	M	406	U	OP1-P-O3'	-8.08	87.43	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	450	U	P-O3'-C3'	-8.07	110.01	119.70
3	K	190	A	OP1-P-O3'	8.07	122.96	105.20
4	L	798	U	O3'-P-O5'	8.07	119.34	104.00
4	L	464	U	OP2-P-O3'	8.07	122.95	105.20
1	I	148	A	OP2-P-O3'	8.06	122.94	105.20
1	I	38	A	P-O3'-C3'	-8.06	110.03	119.70
1	I	234	A	O3'-P-O5'	8.06	119.32	104.00
5	M	548	U	O3'-P-O5'	8.06	119.31	104.00
2	J	153	A	OP2-P-O3'	8.06	122.92	105.20
5	M	287	U	P-O3'-C3'	-8.05	110.03	119.70
5	M	323	U	OP1-P-O3'	-8.05	87.48	105.20
1	I	349	A	OP1-P-O3'	-8.05	87.48	105.20
4	L	424	U	OP1-P-O3'	8.05	122.91	105.20
3	K	197	A	OP1-P-O3'	8.05	122.90	105.20
4	L	629	U	OP1-P-O3'	-8.04	87.51	105.20
2	J	42	A	P-O3'-C3'	-8.04	110.05	119.70
6	N	412	U	OP2-P-O3'	8.04	122.89	105.20
4	L	692	U	OP2-P-O3'	8.03	122.85	105.20
4	L	781	U	OP2-P-O3'	-8.02	87.55	105.20
2	J	58	A	OP1-P-O3'	-8.02	87.56	105.20
1	I	298	A	O3'-P-O5'	-8.01	88.78	104.00
4	L	489	U	O3'-P-O5'	-8.01	88.78	104.00
4	L	656	U	O3'-P-O5'	8.01	119.22	104.00
4	L	782	U	P-O3'-C3'	-8.00	110.10	119.70
5	M	495	U	O3'-P-O5'	8.00	119.20	104.00
4	L	605	U	OP2-P-O3'	8.00	122.80	105.20
5	M	366	U	O3'-P-O5'	8.00	119.20	104.00
2	J	57	A	OP1-P-O3'	-8.00	87.60	105.20
5	M	430	U	O3'-P-O5'	-8.00	88.80	104.00
4	L	722	U	OP1-P-O3'	7.99	122.79	105.20
1	I	381	A	P-O3'-C3'	7.99	129.28	119.70
2	J	30	A	O3'-P-O5'	-7.99	88.83	104.00
2	J	150	A	OP2-P-O3'	-7.99	87.63	105.20
6	N	328	U	OP1-P-O3'	7.99	122.77	105.20
3	K	233	A	O3'-P-O5'	7.98	119.17	104.00
3	K	16	A	OP2-P-O3'	-7.98	87.64	105.20
4	L	715	U	P-O3'-C3'	7.98	129.28	119.70
4	L	507	U	OP1-P-O3'	-7.98	87.65	105.20
3	K	161	A	OP2-P-O3'	7.97	122.74	105.20
1	I	410	A	OP1-P-O3'	7.97	122.74	105.20
4	L	508	U	OP2-P-O3'	7.97	122.74	105.20
2	J	17	A	OP2-P-O3'	7.97	122.73	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	465	U	OP1-P-O3'	7.97	122.73	105.20
1	I	140	A	P-O3'-C3'	7.97	129.26	119.70
5	M	464	U	OP1-P-O3'	-7.97	87.67	105.20
2	J	127	A	O3'-P-O5'	7.96	119.13	104.00
5	M	505	U	O3'-P-O5'	7.96	119.13	104.00
1	I	217	A	O3'-P-O5'	7.95	119.11	104.00
2	J	15	A	OP1-P-O3'	-7.95	87.70	105.20
4	L	480	U	OP1-P-O3'	-7.95	87.70	105.20
6	N	330	U	OP2-P-O3'	7.95	122.70	105.20
5	M	421	U	P-O3'-C3'	-7.95	110.16	119.70
3	K	91	A	O3'-P-O5'	-7.95	88.90	104.00
2	J	108	A	P-O3'-C3'	-7.95	110.16	119.70
4	L	768	U	O3'-P-O5'	7.95	119.10	104.00
1	I	49	A	OP1-P-O3'	-7.95	87.72	105.20
6	N	294	U	O3'-P-O5'	-7.94	88.91	104.00
2	J	81	A	P-O3'-C3'	-7.94	110.17	119.70
4	L	704	U	OP2-P-O3'	7.94	122.67	105.20
4	L	434	U	OP2-P-O3'	7.93	122.65	105.20
6	N	418	U	OP1-P-O3'	7.93	122.65	105.20
2	J	2	A	OP2-P-O3'	-7.93	87.76	105.20
4	L	484	U	O3'-P-O5'	-7.93	88.94	104.00
5	M	371	U	OP1-P-O3'	-7.92	87.77	105.20
3	K	27	A	OP2-P-O3'	-7.92	87.79	105.20
4	L	441	U	OP1-P-O3'	7.92	122.62	105.20
4	L	451	U	P-O3'-C3'	-7.92	110.20	119.70
2	J	91	A	O3'-P-O5'	7.92	119.04	104.00
5	M	321	U	OP1-P-O3'	7.91	122.60	105.20
1	I	29	A	O3'-P-O5'	7.91	119.02	104.00
1	I	43	A	P-O3'-C3'	-7.90	110.22	119.70
6	N	414	U	O3'-P-O5'	7.90	119.00	104.00
4	L	802	U	P-O3'-C3'	-7.89	110.23	119.70
1	I	367	A	OP2-P-O3'	-7.89	87.84	105.20
1	I	37	A	OP2-P-O3'	-7.88	87.85	105.20
3	K	92	A	OP1-P-O3'	-7.88	87.85	105.20
6	N	313	U	P-O3'-C3'	-7.88	110.24	119.70
3	K	203	A	OP1-P-O3'	7.88	122.54	105.20
3	K	218	A	O3'-P-O5'	-7.88	89.03	104.00
3	K	143	A	P-O3'-C3'	7.87	129.15	119.70
4	L	690	U	O3'-P-O5'	7.87	118.96	104.00
1	I	319	A	OP2-P-O3'	7.87	122.52	105.20
4	L	437	U	P-O3'-C3'	7.87	129.14	119.70
3	K	200	A	OP1-P-O3'	7.87	122.51	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	436	U	OP2-P-O3'	7.87	122.51	105.20
2	J	89	A	P-O3'-C3'	-7.86	110.26	119.70
4	L	821	U	OP2-P-O3'	7.86	122.50	105.20
4	L	460	U	OP2-P-O3'	7.85	122.47	105.20
4	L	662	U	O3'-P-O5'	7.85	118.92	104.00
6	N	382	U	O3'-P-O5'	7.85	118.91	104.00
3	K	101	A	O3'-P-O5'	-7.85	89.09	104.00
1	I	406	A	P-O3'-C3'	-7.85	110.28	119.70
1	I	369	A	O3'-P-O5'	7.84	118.91	104.00
6	N	431	U	O3'-P-O5'	-7.84	89.10	104.00
1	I	214	A	OP2-P-O3'	7.84	122.45	105.20
2	J	270	A	OP2-P-O3'	-7.84	87.95	105.20
4	L	432	U	P-O3'-C3'	7.84	129.11	119.70
6	N	376	U	OP1-P-O3'	7.84	122.44	105.20
2	J	185	A	OP2-P-O3'	7.83	122.43	105.20
4	L	590	U	OP1-P-O3'	-7.83	87.97	105.20
1	I	330	A	OP1-P-O3'	-7.83	87.97	105.20
2	J	236	A	P-O3'-C3'	-7.83	110.31	119.70
6	N	518	U	OP1-P-O3'	7.83	122.42	105.20
2	J	133	A	P-O3'-C3'	-7.83	110.31	119.70
1	I	336	A	O3'-P-O5'	-7.83	89.13	104.00
3	K	177	A	O3'-P-O5'	-7.82	89.15	104.00
4	L	427	U	OP1-P-O3'	7.82	122.40	105.20
3	K	227	A	OP2-P-O3'	-7.81	88.01	105.20
2	J	96	A	OP2-P-O3'	7.81	122.38	105.20
4	L	693	U	O3'-P-O5'	-7.81	89.16	104.00
4	L	720	U	OP1-P-O3'	7.81	122.38	105.20
2	J	8	A	OP2-P-O3'	7.81	122.38	105.20
5	M	507	U	OP1-P-O3'	-7.81	88.03	105.20
4	L	511	U	P-O3'-C3'	7.80	129.07	119.70
5	M	461	U	OP1-P-O3'	-7.80	88.03	105.20
6	N	332	U	P-O3'-C3'	-7.80	110.34	119.70
2	J	66	A	OP1-P-O3'	-7.80	88.04	105.20
5	M	308	U	OP2-P-O3'	-7.80	88.04	105.20
5	M	402	U	P-O3'-C3'	-7.80	110.34	119.70
4	L	519	U	O3'-P-O5'	7.80	118.82	104.00
6	N	398	U	OP2-P-O3'	-7.79	88.06	105.20
5	M	407	U	OP1-P-O3'	7.79	122.34	105.20
5	M	462	U	O3'-P-O5'	-7.79	89.20	104.00
3	K	16	A	O3'-P-O5'	7.78	118.79	104.00
5	M	514	U	O3'-P-O5'	7.78	118.78	104.00
1	I	386	A	OP2-P-O3'	-7.77	88.10	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	505	U	OP2-P-O3'	7.77	122.30	105.20
3	K	112	A	OP1-P-O3'	7.77	122.30	105.20
1	I	403	A	OP2-P-O3'	7.76	122.28	105.20
6	N	494	U	OP1-P-O3'	7.76	122.28	105.20
1	I	248	A	O3'-P-O5'	7.76	118.74	104.00
1	I	51	A	O3'-P-O5'	7.75	118.73	104.00
4	L	725	U	O3'-P-O5'	-7.75	89.27	104.00
1	I	298	A	OP2-P-O3'	7.75	122.26	105.20
1	I	22	A	P-O3'-C3'	-7.75	110.40	119.70
2	J	212	A	O3'-P-O5'	7.75	118.72	104.00
2	J	244	A	P-O3'-C3'	-7.75	110.40	119.70
1	I	109	A	P-O3'-C3'	7.75	128.99	119.70
1	I	176	A	OP1-P-O3'	7.75	122.24	105.20
5	M	372	U	OP2-P-O3'	7.74	122.24	105.20
1	I	86	A	O3'-P-O5'	-7.74	89.29	104.00
3	K	143	A	O3'-P-O5'	-7.74	89.29	104.00
4	L	776	U	OP1-P-O3'	-7.74	88.17	105.20
1	I	279	A	OP2-P-O3'	7.74	122.23	105.20
1	I	117	A	O3'-P-O5'	7.74	118.70	104.00
2	J	258	A	O3'-P-O5'	-7.74	89.30	104.00
6	N	389	U	OP1-P-O3'	7.74	122.22	105.20
2	J	100	A	OP2-P-O3'	7.73	122.21	105.20
1	I	308	A	OP1-P-O3'	7.73	122.21	105.20
5	M	349	U	OP1-P-O3'	-7.73	88.20	105.20
6	N	518	U	P-O3'-C3'	7.73	128.97	119.70
3	K	50	A	P-O3'-C3'	7.72	128.97	119.70
4	L	808	U	O3'-P-O5'	7.72	118.68	104.00
2	J	109	A	P-O3'-C3'	-7.72	110.44	119.70
2	J	64	A	P-O3'-C3'	-7.71	110.44	119.70
2	J	124	A	OP2-P-O3'	-7.71	88.24	105.20
3	K	241	A	P-O3'-C3'	-7.70	110.46	119.70
6	N	453	U	OP2-P-O3'	7.69	122.12	105.20
6	N	362	U	P-O3'-C3'	-7.69	110.47	119.70
1	I	202	A	OP1-P-O3'	-7.68	88.30	105.20
1	I	200	A	P-O3'-C3'	-7.68	110.48	119.70
3	K	180	A	O3'-P-O5'	7.68	118.59	104.00
2	J	192	A	OP1-P-O3'	-7.68	88.30	105.20
2	J	76	A	O3'-P-O5'	7.67	118.57	104.00
3	K	40	A	P-O3'-C3'	-7.66	110.50	119.70
3	K	216	A	O3'-P-O5'	-7.66	89.44	104.00
3	K	196	A	P-O3'-C3'	7.66	128.89	119.70
2	J	2	A	OP1-P-O3'	7.66	122.04	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	441	U	O3'-P-O5'	7.66	118.55	104.00
5	M	289	U	P-O3'-C3'	-7.66	110.51	119.70
1	I	284	A	P-O3'-C3'	-7.65	110.52	119.70
1	I	26	A	O3'-P-O5'	-7.65	89.46	104.00
3	K	30	A	P-O3'-C3'	7.65	128.88	119.70
6	N	308	U	O3'-P-O5'	7.65	118.53	104.00
1	I	119	A	O3'-P-O5'	7.64	118.52	104.00
2	J	186	A	OP1-P-O3'	-7.64	88.38	105.20
3	K	218	A	P-O3'-C3'	7.64	128.87	119.70
5	M	452	U	OP2-P-O3'	7.64	122.02	105.20
2	J	154	A	OP2-P-O3'	-7.64	88.39	105.20
2	J	170	A	OP2-P-O3'	-7.64	88.39	105.20
4	L	633	U	P-O3'-C3'	7.64	128.87	119.70
4	L	800	U	OP2-P-O3'	7.64	122.01	105.20
6	N	315	U	OP2-P-O3'	7.64	122.01	105.20
4	L	796	U	P-O3'-C3'	-7.64	110.54	119.70
4	L	662	U	OP1-P-O3'	7.63	122.00	105.20
4	L	709	U	P-O3'-C3'	-7.63	110.54	119.70
1	I	53	A	OP2-P-O3'	-7.63	88.41	105.20
4	L	598	U	OP1-P-O3'	-7.63	88.42	105.20
3	K	114	A	P-O3'-C3'	7.63	128.85	119.70
5	M	483	U	OP1-P-O3'	-7.63	88.42	105.20
2	J	268	A	OP2-P-O3'	-7.62	88.44	105.20
4	L	461	U	OP2-P-O3'	7.62	121.95	105.20
1	I	139	A	OP2-P-O3'	-7.61	88.45	105.20
2	J	215	A	OP1-P-O3'	-7.61	88.46	105.20
1	I	394	A	OP1-P-O3'	7.61	121.93	105.20
3	K	240	A	OP2-P-O3'	7.60	121.92	105.20
6	N	416	U	OP1-P-O3'	-7.60	88.48	105.20
3	K	186	A	OP2-P-O3'	7.60	121.92	105.20
4	L	673	U	OP1-P-O3'	-7.60	88.48	105.20
6	N	416	U	P-O3'-C3'	-7.59	110.59	119.70
4	L	579	U	O3'-P-O5'	7.58	118.41	104.00
4	L	442	U	OP1-P-O3'	7.58	121.88	105.20
6	N	356	U	OP2-P-O3'	-7.58	88.52	105.20
6	N	444	U	OP1-P-O3'	-7.58	88.53	105.20
2	J	239	A	P-O3'-C3'	-7.58	110.61	119.70
3	K	44	A	OP2-P-O3'	7.58	121.87	105.20
4	L	457	U	OP2-P-O3'	-7.58	88.53	105.20
4	L	517	U	OP1-P-O3'	-7.58	88.53	105.20
1	I	241	A	OP2-P-O3'	7.57	121.85	105.20
4	L	564	U	OP1-P-O3'	-7.57	88.56	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	665	U	OP2-P-O3'	-7.57	88.56	105.20
6	N	317	U	OP2-P-O3'	7.57	121.85	105.20
5	M	421	U	O3'-P-O5'	-7.56	89.64	104.00
1	I	405	A	P-O3'-C3'	-7.56	110.63	119.70
3	K	141	A	OP1-P-O3'	7.55	121.82	105.20
5	M	400	U	OP2-P-O3'	7.55	121.81	105.20
4	L	441	U	P-O3'-C3'	7.55	128.76	119.70
5	M	365	U	O3'-P-O5'	7.54	118.33	104.00
4	L	415	U	O3'-P-O5'	-7.54	89.67	104.00
5	M	495	U	OP2-P-O3'	7.54	121.79	105.20
3	K	230	A	OP1-P-O3'	7.54	121.78	105.20
3	K	53	A	P-O3'-C3'	-7.53	110.66	119.70
5	M	315	U	OP2-P-O3'	-7.53	88.63	105.20
6	N	499	U	OP1-P-O3'	7.53	121.77	105.20
6	N	309	U	OP2-P-O3'	-7.53	88.63	105.20
1	I	405	A	OP1-P-O3'	7.53	121.76	105.20
4	L	501	U	OP2-P-O3'	-7.53	88.64	105.20
4	L	518	U	OP2-P-O3'	7.51	121.73	105.20
5	M	364	U	OP2-P-O3'	7.51	121.73	105.20
3	K	229	A	P-O3'-C3'	7.51	128.72	119.70
4	L	774	U	P-O3'-C3'	-7.51	110.68	119.70
1	I	316	A	OP2-P-O3'	7.51	121.72	105.20
1	I	163	A	O3'-P-O5'	7.50	118.26	104.00
2	J	83	A	OP1-P-O3'	7.50	121.70	105.20
3	K	178	A	O3'-P-O5'	-7.50	89.75	104.00
5	M	381	U	P-O3'-C3'	7.50	128.70	119.70
5	M	499	U	O3'-P-O5'	7.50	118.24	104.00
5	M	510	U	P-O3'-C3'	-7.50	110.70	119.70
3	K	50	A	O3'-P-O5'	7.50	118.24	104.00
6	N	332	U	OP1-P-O3'	7.50	121.69	105.20
1	I	155	A	P-O3'-C3'	7.49	128.69	119.70
3	K	255	A	P-O3'-C3'	-7.49	110.71	119.70
4	L	684	U	P-O3'-C3'	7.49	128.69	119.70
4	L	700	U	OP2-P-O3'	7.49	121.67	105.20
5	M	421	U	OP1-P-O3'	7.49	121.67	105.20
4	L	741	U	P-O3'-C3'	-7.48	110.72	119.70
4	L	686	U	O3'-P-O5'	7.48	118.21	104.00
4	L	794	U	OP1-P-O3'	-7.48	88.75	105.20
2	J	109	A	OP2-P-O3'	-7.48	88.75	105.20
3	K	238	A	P-O3'-C3'	7.47	128.67	119.70
5	M	536	U	OP1-P-O3'	-7.47	88.77	105.20
1	I	272	A	O3'-P-O5'	-7.47	89.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	245	A	O3'-P-O5'	7.47	118.19	104.00
4	L	463	U	O3'-P-O5'	-7.47	89.82	104.00
2	J	169	A	OP1-P-O3'	7.46	121.62	105.20
4	L	507	U	O3'-P-O5'	-7.46	89.82	104.00
1	I	382	A	OP1-P-O3'	7.46	121.61	105.20
1	I	121	A	OP1-P-O3'	7.46	121.61	105.20
3	K	251	A	OP2-P-O3'	7.46	121.60	105.20
3	K	173	A	OP1-P-O3'	-7.45	88.81	105.20
4	L	437	U	OP1-P-O3'	7.45	121.58	105.20
3	K	56	A	O3'-P-O5'	-7.45	89.85	104.00
1	I	12	A	OP1-P-O3'	-7.44	88.83	105.20
1	I	337	A	P-O3'-C3'	-7.44	110.77	119.70
4	L	470	U	P-O3'-C3'	-7.44	110.77	119.70
4	L	518	U	O3'-P-O5'	7.44	118.13	104.00
2	J	231	A	OP1-P-O3'	7.44	121.56	105.20
4	L	740	U	O3'-P-O5'	-7.43	89.88	104.00
1	I	83	A	OP2-P-O3'	7.43	121.55	105.20
1	I	411	A	OP2-P-O3'	-7.43	88.86	105.20
2	J	129	A	OP1-P-O3'	-7.43	88.86	105.20
6	N	385	U	P-O3'-C3'	7.43	128.61	119.70
1	I	60	A	P-O3'-C3'	-7.42	110.79	119.70
2	J	158	A	P-O3'-C3'	-7.42	110.79	119.70
2	J	254	A	OP1-P-O3'	-7.42	88.86	105.20
4	L	737	U	OP2-P-O3'	-7.42	88.87	105.20
6	N	453	U	P-O3'-C3'	-7.42	110.79	119.70
2	J	195	A	P-O3'-C3'	-7.42	110.80	119.70
1	I	178	A	P-O3'-C3'	-7.42	110.80	119.70
1	I	291	A	OP1-P-O3'	-7.42	88.88	105.20
5	M	543	U	OP2-P-O3'	7.42	121.52	105.20
4	L	786	U	P-O3'-C3'	-7.42	110.80	119.70
2	J	172	A	OP1-P-O3'	7.41	121.51	105.20
6	N	510	U	P-O3'-C3'	7.41	128.60	119.70
2	J	271	A	O3'-P-O5'	7.41	118.08	104.00
5	M	393	U	OP1-P-O3'	7.41	121.50	105.20
6	N	294	U	OP2-P-O3'	7.41	121.49	105.20
6	N	325	U	O3'-P-O5'	-7.40	89.94	104.00
4	L	573	U	P-O3'-C3'	-7.40	110.82	119.70
4	L	558	U	O3'-P-O5'	7.40	118.06	104.00
4	L	747	U	O3'-P-O5'	-7.40	89.94	104.00
1	I	153	A	OP2-P-O3'	7.39	121.47	105.20
3	K	199	A	OP1-P-O3'	7.39	121.47	105.20
4	L	603	U	OP2-P-O3'	7.39	121.47	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	801	U	P-O3'-C3'	-7.39	110.83	119.70
2	J	263	A	O3'-P-O5'	-7.39	89.96	104.00
6	N	366	U	OP1-P-O3'	7.39	121.45	105.20
3	K	191	A	OP2-P-O3'	7.38	121.44	105.20
4	L	817	U	O3'-P-O5'	7.38	118.03	104.00
1	I	3	A	P-O3'-C3'	7.38	128.55	119.70
1	I	361	A	O3'-P-O5'	-7.38	89.98	104.00
1	I	401	A	O3'-P-O5'	-7.38	89.98	104.00
1	I	115	A	P-O3'-C3'	-7.38	110.85	119.70
1	I	176	A	O3'-P-O5'	7.38	118.02	104.00
1	I	291	A	O3'-P-O5'	-7.38	89.98	104.00
1	I	347	A	P-O3'-C3'	-7.38	110.85	119.70
6	N	296	U	OP1-P-O3'	7.38	121.43	105.20
5	M	496	U	OP2-P-O3'	-7.37	88.98	105.20
4	L	823	U	OP1-P-O3'	7.37	121.42	105.20
6	N	373	U	O3'-P-O5'	7.37	118.01	104.00
6	N	422	U	O3'-P-O5'	-7.37	89.99	104.00
1	I	148	A	OP1-P-O3'	-7.36	89.01	105.20
1	I	209	A	P-O3'-C3'	-7.36	110.87	119.70
6	N	370	U	P-O3'-C3'	-7.36	110.87	119.70
4	L	784	U	O3'-P-O5'	7.35	117.97	104.00
2	J	23	A	OP1-P-O3'	-7.35	89.04	105.20
6	N	511	U	OP1-P-O3'	7.35	121.36	105.20
1	I	1	A	OP1-P-O3'	7.35	121.36	105.20
4	L	743	U	OP1-P-O3'	-7.34	89.05	105.20
3	K	224	A	O3'-P-O5'	-7.34	90.05	104.00
3	K	77	A	P-O3'-C3'	-7.34	110.89	119.70
5	M	301	U	P-O3'-C3'	-7.34	110.90	119.70
5	M	340	U	OP2-P-O3'	7.34	121.34	105.20
3	K	177	A	OP2-P-O3'	7.33	121.34	105.20
1	I	9	A	OP1-P-O3'	-7.33	89.07	105.20
1	I	317	A	OP2-P-O3'	7.33	121.33	105.20
6	N	334	U	OP2-P-O3'	7.33	121.32	105.20
1	I	305	A	OP2-P-O3'	7.33	121.32	105.20
1	I	351	A	P-O3'-C3'	7.33	128.49	119.70
1	I	263	A	OP1-P-O3'	-7.33	89.08	105.20
1	I	154	A	OP1-P-O3'	7.32	121.31	105.20
6	N	372	U	P-O3'-C3'	-7.32	110.91	119.70
1	I	182	A	O3'-P-O5'	7.32	117.91	104.00
1	I	275	A	P-O3'-C3'	7.32	128.49	119.70
3	K	72	A	OP2-P-O3'	7.31	121.29	105.20
4	L	433	U	OP2-P-O3'	-7.31	89.12	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	534	U	O3'-P-O5'	-7.31	90.11	104.00
5	M	508	U	OP1-P-O3'	-7.31	89.13	105.20
2	J	274	A	OP2-P-O3'	-7.30	89.13	105.20
5	M	311	U	P-O3'-C3'	-7.30	110.94	119.70
4	L	674	U	O3'-P-O5'	-7.30	90.13	104.00
6	N	337	U	P-O3'-C3'	7.30	128.46	119.70
4	L	731	U	OP2-P-O3'	7.29	121.25	105.20
6	N	515	U	OP2-P-O3'	7.29	121.24	105.20
2	J	193	A	OP1-P-O3'	-7.28	89.18	105.20
1	I	147	A	OP1-P-O3'	-7.28	89.19	105.20
6	N	423	U	P-O3'-C3'	-7.28	110.97	119.70
3	K	234	A	OP1-P-O3'	7.28	121.21	105.20
5	M	331	U	OP1-P-O3'	-7.28	89.19	105.20
5	M	356	U	P-O3'-C3'	-7.28	110.97	119.70
2	J	135	A	OP1-P-O3'	7.28	121.21	105.20
3	K	29	A	P-O3'-C3'	7.28	128.43	119.70
5	M	300	U	OP1-P-O3'	-7.28	89.19	105.20
1	I	38	A	OP2-P-O3'	-7.27	89.20	105.20
3	K	101	A	OP1-P-O3'	-7.27	89.20	105.20
3	K	244	A	P-O3'-C3'	7.27	128.42	119.70
1	I	358	A	P-O3'-C3'	-7.26	110.99	119.70
6	N	382	U	OP1-P-O3'	7.26	121.17	105.20
2	J	75	A	OP1-P-O3'	-7.25	89.24	105.20
2	J	169	A	OP2-P-O3'	-7.25	89.25	105.20
4	L	679	U	OP1-P-O3'	7.25	121.15	105.20
6	N	411	U	OP1-P-O3'	-7.25	89.25	105.20
1	I	293	A	O3'-P-O5'	7.24	117.75	104.00
3	K	148	A	OP1-P-O3'	7.24	121.12	105.20
5	M	330	U	OP2-P-O3'	-7.24	89.28	105.20
5	M	437	U	OP1-P-O3'	-7.24	89.28	105.20
4	L	430	U	O3'-P-O5'	-7.23	90.26	104.00
6	N	402	U	O3'-P-O5'	-7.23	90.26	104.00
2	J	235	A	OP1-P-O3'	-7.22	89.30	105.20
3	K	77	A	OP2-P-O3'	7.22	121.09	105.20
4	L	466	U	P-O3'-C3'	-7.22	111.03	119.70
1	I	96	A	O3'-P-O5'	-7.22	90.28	104.00
6	N	419	U	OP2-P-O3'	-7.22	89.32	105.20
6	N	504	U	P-O3'-C3'	-7.22	111.04	119.70
3	K	76	A	P-O3'-C3'	-7.21	111.04	119.70
3	K	252	A	O3'-P-O5'	7.21	117.71	104.00
1	I	288	A	P-O3'-C3'	-7.21	111.05	119.70
1	I	400	A	OP2-P-O3'	-7.21	89.33	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	475	U	O3'-P-O5'	7.21	117.70	104.00
3	K	174	A	OP1-P-O3'	-7.21	89.33	105.20
3	K	78	A	O3'-P-O5'	-7.21	90.30	104.00
4	L	794	U	O3'-P-O5'	7.20	117.68	104.00
1	I	391	A	P-O3'-C3'	7.20	128.34	119.70
4	L	640	U	P-O3'-C3'	-7.20	111.06	119.70
4	L	658	U	OP1-P-O3'	-7.20	89.36	105.20
4	L	728	U	P-O3'-C3'	7.20	128.33	119.70
1	I	149	A	P-O3'-C3'	-7.19	111.07	119.70
2	J	221	A	OP1-P-O3'	-7.19	89.37	105.20
6	N	433	U	O3'-P-O5'	7.19	117.67	104.00
3	K	58	A	OP2-P-O3'	-7.19	89.38	105.20
5	M	450	U	OP2-P-O3'	7.19	121.02	105.20
6	N	428	U	OP1-P-O3'	-7.18	89.41	105.20
3	K	149	A	P-O3'-C3'	-7.18	111.09	119.70
3	K	97	A	OP1-P-O3'	-7.17	89.42	105.20
3	K	123	A	O3'-P-O5'	7.17	117.62	104.00
2	J	180	A	P-O3'-C3'	-7.16	111.11	119.70
1	I	290	A	O3'-P-O5'	-7.16	90.40	104.00
1	I	350	A	P-O3'-C3'	-7.16	111.11	119.70
2	J	114	A	O3'-P-O5'	7.16	117.60	104.00
3	K	243	A	O3'-P-O5'	7.16	117.60	104.00
1	I	94	A	O3'-P-O5'	7.15	117.59	104.00
1	I	245	A	P-O3'-C3'	-7.15	111.12	119.70
2	J	104	A	P-O3'-C3'	-7.15	111.12	119.70
2	J	17	A	O3'-P-O5'	-7.15	90.42	104.00
4	L	431	U	OP1-P-O3'	7.15	120.92	105.20
6	N	524	U	OP1-P-O3'	7.14	120.92	105.20
5	M	460	U	P-O3'-C3'	-7.14	111.13	119.70
6	N	341	U	OP2-P-O3'	-7.14	89.49	105.20
3	K	161	A	OP1-P-O3'	-7.13	89.50	105.20
3	K	200	A	P-O3'-C3'	7.13	128.26	119.70
3	K	139	A	OP2-P-O3'	-7.13	89.52	105.20
5	M	385	U	O3'-P-O5'	7.13	117.54	104.00
2	J	41	A	O3'-P-O5'	7.12	117.53	104.00
4	L	683	U	P-O3'-C3'	7.12	128.25	119.70
2	J	161	A	OP2-P-O3'	7.12	120.86	105.20
5	M	425	U	OP1-P-O3'	-7.12	89.55	105.20
6	N	318	U	P-O3'-C3'	7.12	128.24	119.70
3	K	205	A	OP2-P-O3'	7.11	120.85	105.20
5	M	378	U	P-O3'-C3'	7.11	128.24	119.70
2	J	163	A	OP1-P-O3'	7.11	120.84	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	482	U	OP1-P-O3'	-7.11	89.56	105.20
1	I	362	A	OP1-P-O3'	7.10	120.83	105.20
4	L	823	U	P-O3'-C3'	7.10	128.22	119.70
5	M	351	U	OP2-P-O3'	-7.10	89.58	105.20
6	N	300	U	P-O3'-C3'	7.10	128.22	119.70
1	I	381	A	O3'-P-O5'	7.09	117.48	104.00
2	J	13	A	OP1-P-O3'	-7.09	89.60	105.20
5	M	519	U	O3'-P-O5'	-7.09	90.53	104.00
1	I	192	A	OP1-P-O3'	-7.09	89.61	105.20
3	K	165	A	O3'-P-O5'	-7.09	90.54	104.00
2	J	11	A	OP1-P-O3'	-7.08	89.61	105.20
3	K	143	A	OP1-P-O3'	7.08	120.77	105.20
5	M	529	U	OP1-P-O3'	-7.08	89.63	105.20
4	L	749	U	OP1-P-O3'	-7.08	89.64	105.20
5	M	409	U	OP1-P-O3'	-7.08	89.63	105.20
2	J	131	A	OP2-P-O3'	7.07	120.76	105.20
4	L	451	U	O3'-P-O5'	7.06	117.42	104.00
1	I	318	A	OP2-P-O3'	7.06	120.74	105.20
2	J	112	A	O3'-P-O5'	7.06	117.42	104.00
3	K	245	A	OP2-P-O3'	-7.06	89.66	105.20
3	K	115	A	P-O3'-C3'	-7.06	111.23	119.70
4	L	813	U	O3'-P-O5'	-7.06	90.59	104.00
6	N	436	U	OP1-P-O3'	7.05	120.72	105.20
6	N	479	U	P-O3'-C3'	-7.04	111.25	119.70
1	I	56	A	P-O3'-C3'	-7.04	111.25	119.70
6	N	349	U	P-O3'-C3'	7.04	128.15	119.70
5	M	545	U	OP1-P-O3'	7.04	120.68	105.20
1	I	155	A	O3'-P-O5'	7.03	117.36	104.00
3	K	151	A	OP2-P-O3'	-7.03	89.74	105.20
3	K	230	A	O3'-P-O5'	-7.03	90.65	104.00
5	M	376	U	OP1-P-O3'	-7.03	89.74	105.20
5	M	443	U	P-O3'-C3'	-7.03	111.27	119.70
2	J	230	A	P-O3'-C3'	-7.02	111.28	119.70
3	K	142	A	O3'-P-O5'	7.02	117.33	104.00
4	L	563	U	OP2-P-O3'	7.02	120.63	105.20
4	L	615	U	OP2-P-O3'	7.01	120.63	105.20
4	L	515	U	P-O3'-C3'	-7.01	111.28	119.70
1	I	77	A	O3'-P-O5'	-7.01	90.68	104.00
4	L	445	U	OP1-P-O3'	7.00	120.61	105.20
3	K	160	A	O3'-P-O5'	-7.00	90.70	104.00
1	I	152	A	OP2-P-O3'	7.00	120.60	105.20
4	L	732	U	O3'-P-O5'	7.00	117.29	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	32	A	O3'-P-O5'	-6.99	90.71	104.00
4	L	745	U	P-O3'-C3'	-6.99	111.31	119.70
6	N	423	U	OP2-P-O3'	6.99	120.58	105.20
2	J	259	A	OP2-P-O3'	6.99	120.58	105.20
4	L	591	U	P-O3'-C3'	-6.99	111.31	119.70
4	L	431	U	P-O3'-C3'	6.99	128.09	119.70
6	N	385	U	OP2-P-O3'	-6.99	89.83	105.20
2	J	123	A	P-O3'-C3'	-6.98	111.32	119.70
2	J	126	A	OP1-P-O3'	-6.98	89.85	105.20
4	L	725	U	P-O3'-C3'	-6.98	111.33	119.70
2	J	105	A	OP2-P-O3'	6.97	120.54	105.20
6	N	324	U	OP1-P-O3'	6.97	120.54	105.20
2	J	198	A	OP2-P-O3'	6.97	120.53	105.20
5	M	444	U	P-O3'-C3'	-6.95	111.36	119.70
1	I	300	A	P-O3'-C3'	-6.95	111.36	119.70
2	J	229	A	P-O3'-C3'	-6.94	111.37	119.70
3	K	40	A	OP2-P-O3'	-6.94	89.93	105.20
4	L	789	U	O3'-P-O5'	6.94	117.19	104.00
3	K	34	A	O3'-P-O5'	-6.94	90.82	104.00
6	N	488	U	P-O3'-C3'	6.94	128.03	119.70
2	J	156	A	O3'-P-O5'	-6.94	90.82	104.00
3	K	19	A	OP2-P-O3'	-6.93	89.94	105.20
3	K	133	A	OP1-P-O3'	-6.93	89.95	105.20
1	I	23	A	OP2-P-O3'	6.93	120.44	105.20
4	L	657	U	O3'-P-O5'	6.92	117.15	104.00
1	I	332	A	OP1-P-O3'	-6.92	89.98	105.20
4	L	545	U	P-O3'-C3'	-6.91	111.41	119.70
5	M	346	U	OP1-P-O3'	-6.91	90.00	105.20
5	M	282	U	OP2-P-O3'	-6.91	90.00	105.20
6	N	336	U	O3'-P-O5'	-6.91	90.87	104.00
5	M	471	U	OP2-P-O3'	-6.91	90.01	105.20
4	L	717	U	OP2-P-O3'	-6.90	90.01	105.20
5	M	284	U	P-O3'-C3'	-6.90	111.42	119.70
3	K	232	A	O3'-P-O5'	6.90	117.10	104.00
1	I	27	A	O3'-P-O5'	6.89	117.10	104.00
6	N	314	U	OP1-P-O3'	6.89	120.37	105.20
1	I	255	A	O3'-P-O5'	-6.89	90.91	104.00
6	N	273	U	O3'-P-O5'	-6.89	90.92	104.00
5	M	445	U	OP2-P-O3'	-6.88	90.05	105.20
1	I	346	A	O3'-P-O5'	6.88	117.08	104.00
5	M	497	U	OP1-P-O3'	6.88	120.34	105.20
1	I	353	A	OP1-P-O3'	-6.88	90.06	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	461	U	OP1-P-O3'	6.88	120.33	105.20
2	J	136	A	O3'-P-O5'	6.87	117.05	104.00
4	L	565	U	OP1-P-O3'	-6.86	90.11	105.20
3	K	197	A	O3'-P-O5'	-6.85	90.98	104.00
1	I	42	A	O3'-P-O5'	6.85	117.02	104.00
1	I	395	A	OP1-P-O3'	6.85	120.28	105.20
4	L	679	U	P-O3'-C3'	6.85	127.92	119.70
4	L	767	U	O3'-P-O5'	6.85	117.02	104.00
5	M	549	U	OP1-P-O3'	6.85	120.27	105.20
1	I	399	A	P-O3'-C3'	6.84	127.91	119.70
1	I	288	A	O3'-P-O5'	-6.84	91.01	104.00
5	M	379	U	P-O3'-C3'	6.83	127.90	119.70
4	L	529	U	OP1-P-O3'	-6.83	90.17	105.20
6	N	430	U	OP1-P-O3'	-6.83	90.17	105.20
2	J	201	A	OP1-P-O3'	-6.83	90.19	105.20
6	N	503	U	OP2-P-O3'	-6.83	90.18	105.20
4	L	707	U	OP1-P-O3'	-6.82	90.19	105.20
3	K	238	A	O3'-P-O5'	-6.82	91.04	104.00
5	M	527	U	OP2-P-O3'	6.82	120.20	105.20
1	I	39	A	P-O3'-C3'	-6.82	111.52	119.70
3	K	188	A	O3'-P-O5'	6.82	116.96	104.00
3	K	210	A	O3'-P-O5'	-6.82	91.04	104.00
2	J	134	A	O3'-P-O5'	6.82	116.95	104.00
4	L	585	U	O3'-P-O5'	-6.81	91.05	104.00
1	I	7	A	P-O3'-C3'	-6.81	111.52	119.70
6	N	363	U	OP2-P-O3'	-6.81	90.22	105.20
3	K	39	A	O3'-P-O5'	6.81	116.94	104.00
2	J	59	A	OP1-P-O3'	-6.81	90.22	105.20
5	M	531	U	O3'-P-O5'	-6.81	91.07	104.00
6	N	437	U	OP2-P-O3'	6.81	120.17	105.20
2	J	210	A	OP1-P-O3'	-6.80	90.24	105.20
3	K	85	A	OP2-P-O3'	6.79	120.14	105.20
5	M	447	U	O3'-P-O5'	-6.79	91.10	104.00
6	N	374	U	OP2-P-O3'	6.79	120.14	105.20
3	K	254	A	OP1-P-O3'	-6.79	90.27	105.20
4	L	511	U	OP1-P-O3'	6.79	120.13	105.20
4	L	455	U	OP2-P-O3'	-6.78	90.28	105.20
3	K	44	A	OP1-P-O3'	6.78	120.12	105.20
1	I	338	A	OP2-P-O3'	6.78	120.11	105.20
2	J	76	A	P-O3'-C3'	-6.78	111.57	119.70
1	I	330	A	O3'-P-O5'	-6.77	91.13	104.00
6	N	498	U	OP2-P-O3'	6.77	120.10	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	370	A	OP2-P-O3'	-6.77	90.31	105.20
3	K	34	A	OP1-P-O3'	6.77	120.09	105.20
4	L	432	U	OP1-P-O3'	6.77	120.09	105.20
4	L	483	U	OP1-P-O3'	-6.76	90.33	105.20
4	L	819	U	P-O3'-C3'	6.75	127.81	119.70
1	I	313	A	OP2-P-O3'	6.75	120.06	105.20
6	N	333	U	P-O3'-C3'	-6.75	111.60	119.70
1	I	411	A	O3'-P-O5'	6.75	116.83	104.00
5	M	451	U	OP1-P-O3'	6.75	120.05	105.20
3	K	74	A	O3'-P-O5'	-6.75	91.18	104.00
4	L	612	U	OP1-P-O3'	-6.75	90.36	105.20
4	L	672	U	OP2-P-O3'	6.75	120.04	105.20
4	L	719	U	OP1-P-O3'	6.75	120.04	105.20
1	I	83	A	OP1-P-O3'	-6.74	90.37	105.20
4	L	586	U	OP2-P-O3'	6.74	120.02	105.20
4	L	690	U	OP2-P-O3'	-6.74	90.38	105.20
4	L	710	U	OP2-P-O3'	-6.74	90.38	105.20
3	K	10	A	O3'-P-O5'	-6.73	91.21	104.00
4	L	550	U	OP1-P-O3'	-6.73	90.39	105.20
4	L	542	U	O3'-P-O5'	6.73	116.78	104.00
4	L	529	U	O3'-P-O5'	6.72	116.78	104.00
4	L	698	U	P-O3'-C3'	-6.72	111.63	119.70
1	I	302	A	OP1-P-O3'	-6.72	90.41	105.20
3	K	193	A	O3'-P-O5'	-6.71	91.24	104.00
4	L	566	U	OP2-P-O3'	6.71	119.97	105.20
6	N	298	U	O3'-P-O5'	6.71	116.76	104.00
6	N	499	U	O3'-P-O5'	6.71	116.76	104.00
1	I	314	A	OP2-P-O3'	6.71	119.97	105.20
2	J	133	A	OP2-P-O3'	6.71	119.96	105.20
2	J	142	A	OP1-P-O3'	6.71	119.97	105.20
2	J	166	A	P-O3'-C3'	6.71	127.75	119.70
4	L	819	U	OP1-P-O3'	6.71	119.96	105.20
3	K	71	A	O3'-P-O5'	6.71	116.75	104.00
1	I	125	A	P-O3'-C3'	-6.70	111.66	119.70
6	N	467	U	OP2-P-O3'	6.70	119.94	105.20
5	M	503	U	O3'-P-O5'	6.70	116.73	104.00
3	K	140	A	O3'-P-O5'	6.70	116.73	104.00
4	L	619	U	P-O3'-C3'	-6.70	111.67	119.70
5	M	508	U	O3'-P-O5'	6.69	116.72	104.00
3	K	178	A	OP2-P-O3'	6.68	119.91	105.20
1	I	338	A	O3'-P-O5'	-6.68	91.30	104.00
3	K	52	A	OP2-P-O3'	-6.68	90.50	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	585	U	OP1-P-O3'	-6.68	90.50	105.20
1	I	62	A	O3'-P-O5'	6.68	116.68	104.00
1	I	305	A	OP1-P-O3'	-6.68	90.51	105.20
1	I	130	A	OP1-P-O3'	-6.67	90.52	105.20
4	L	560	U	OP1-P-O3'	-6.67	90.54	105.20
6	N	347	U	OP2-P-O3'	-6.66	90.54	105.20
3	K	98	A	OP1-P-O3'	-6.66	90.54	105.20
3	K	249	A	OP1-P-O3'	-6.66	90.54	105.20
3	K	251	A	OP1-P-O3'	-6.66	90.54	105.20
6	N	314	U	P-O3'-C3'	-6.66	111.71	119.70
2	J	3	A	P-O3'-C3'	6.66	127.69	119.70
1	I	176	A	P-O3'-C3'	6.66	127.69	119.70
5	M	455	U	OP1-P-O3'	-6.66	90.56	105.20
2	J	271	A	OP2-P-O3'	-6.65	90.56	105.20
4	L	799	U	OP2-P-O3'	-6.65	90.56	105.20
6	N	330	U	P-O3'-C3'	-6.65	111.72	119.70
3	K	30	A	OP1-P-O3'	6.65	119.83	105.20
3	K	120	A	O3'-P-O5'	-6.65	91.37	104.00
4	L	771	U	O3'-P-O5'	6.65	116.63	104.00
2	J	116	A	OP1-P-O3'	6.64	119.82	105.20
1	I	51	A	OP1-P-O3'	-6.64	90.59	105.20
4	L	706	U	O3'-P-O5'	-6.64	91.38	104.00
6	N	356	U	P-O3'-C3'	-6.64	111.73	119.70
4	L	581	U	OP1-P-O3'	6.63	119.79	105.20
4	L	705	U	OP2-P-O3'	6.63	119.79	105.20
6	N	355	U	OP2-P-O3'	-6.63	90.61	105.20
4	L	495	U	OP2-P-O3'	6.63	119.78	105.20
4	L	493	U	O3'-P-O5'	6.63	116.59	104.00
4	L	586	U	OP1-P-O3'	6.63	119.78	105.20
1	I	104	A	P-O3'-C3'	6.62	127.65	119.70
3	K	20	A	P-O3'-C3'	6.62	127.64	119.70
1	I	379	A	OP1-P-O3'	6.62	119.76	105.20
1	I	248	A	OP1-P-O3'	-6.61	90.66	105.20
4	L	513	U	OP1-P-O3'	-6.61	90.65	105.20
4	L	431	U	O3'-P-O5'	-6.61	91.44	104.00
6	N	340	U	OP1-P-O3'	6.61	119.74	105.20
4	L	545	U	OP1-P-O3'	-6.61	90.67	105.20
4	L	682	U	O3'-P-O5'	-6.61	91.45	104.00
1	I	65	A	O3'-P-O5'	-6.61	91.45	104.00
1	I	383	A	OP1-P-O3'	6.60	119.73	105.20
2	J	77	A	P-O3'-C3'	-6.60	111.78	119.70
4	L	608	U	P-O3'-C3'	-6.60	111.78	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	132	A	O3'-P-O5'	6.60	116.53	104.00
4	L	589	U	OP1-P-O3'	-6.59	90.69	105.20
6	N	337	U	OP1-P-O3'	6.59	119.71	105.20
6	N	476	U	O3'-P-O5'	-6.59	91.47	104.00
4	L	669	U	OP2-P-O3'	6.59	119.70	105.20
1	I	203	A	OP2-P-O3'	6.59	119.69	105.20
2	J	33	A	OP2-P-O3'	6.59	119.69	105.20
4	L	782	U	OP2-P-O3'	-6.58	90.72	105.20
5	M	418	U	O3'-P-O5'	-6.58	91.49	104.00
6	N	505	U	O3'-P-O5'	6.58	116.51	104.00
2	J	178	A	OP1-P-O3'	-6.58	90.72	105.20
4	L	753	U	OP2-P-O3'	6.57	119.66	105.20
3	K	98	A	O3'-P-O5'	-6.57	91.52	104.00
6	N	454	U	OP1-P-O3'	-6.57	90.75	105.20
1	I	344	A	OP1-P-O3'	-6.57	90.76	105.20
3	K	262	A	OP2-P-O3'	-6.57	90.76	105.20
5	M	517	U	O3'-P-O5'	6.56	116.47	104.00
4	L	419	U	O3'-P-O5'	6.56	116.46	104.00
3	K	156	A	OP1-P-O3'	-6.56	90.77	105.20
3	K	72	A	P-O3'-C3'	-6.55	111.83	119.70
5	M	419	U	O3'-P-O5'	-6.55	91.55	104.00
1	I	405	A	O3'-P-O5'	-6.55	91.55	104.00
2	J	60	A	P-O3'-C3'	-6.55	111.84	119.70
3	K	176	A	P-O3'-C3'	-6.55	111.84	119.70
1	I	334	A	OP1-P-O3'	-6.54	90.81	105.20
3	K	102	A	OP1-P-O3'	-6.54	90.81	105.20
3	K	179	A	OP1-P-O3'	6.54	119.59	105.20
5	M	520	U	OP1-P-O3'	-6.54	90.81	105.20
6	N	459	U	O3'-P-O5'	6.54	116.43	104.00
3	K	244	A	O3'-P-O5'	6.54	116.42	104.00
1	I	275	A	OP1-P-O3'	6.54	119.58	105.20
3	K	56	A	P-O3'-C3'	-6.53	111.86	119.70
4	L	719	U	P-O3'-C3'	6.53	127.54	119.70
1	I	11	A	O3'-P-O5'	-6.53	91.59	104.00
6	N	285	U	O3'-P-O5'	6.53	116.41	104.00
4	L	627	U	OP1-P-O3'	-6.53	90.84	105.20
4	L	730	U	OP1-P-O3'	6.52	119.55	105.20
5	M	317	U	OP2-P-O3'	-6.52	90.85	105.20
1	I	117	A	OP1-P-O3'	-6.52	90.85	105.20
3	K	109	A	OP1-P-O3'	-6.52	90.85	105.20
2	J	154	A	P-O3'-C3'	-6.52	111.88	119.70
2	J	252	A	OP1-P-O3'	-6.52	90.86	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	526	U	O3'-P-O5'	-6.52	91.61	104.00
6	N	306	U	OP2-P-O3'	6.52	119.54	105.20
3	K	147	A	OP1-P-O3'	6.52	119.54	105.20
5	M	461	U	OP2-P-O3'	6.52	119.54	105.20
6	N	347	U	O3'-P-O5'	6.52	116.38	104.00
1	I	216	A	O3'-P-O5'	6.51	116.38	104.00
4	L	629	U	O3'-P-O5'	6.51	116.38	104.00
2	J	31	A	P-O3'-C3'	-6.51	111.89	119.70
4	L	714	U	OP2-P-O3'	6.51	119.52	105.20
4	L	472	U	OP1-P-O3'	6.51	119.52	105.20
3	K	110	A	O3'-P-O5'	-6.50	91.64	104.00
3	K	231	A	P-O3'-C3'	-6.50	111.89	119.70
2	J	38	A	OP1-P-O3'	-6.50	90.90	105.20
4	L	502	U	OP2-P-O3'	-6.50	90.91	105.20
6	N	297	U	P-O3'-C3'	-6.49	111.91	119.70
1	I	111	A	OP1-P-O3'	6.49	119.48	105.20
3	K	243	A	OP2-P-O3'	-6.49	90.93	105.20
4	L	535	U	O3'-P-O5'	-6.49	91.67	104.00
5	M	375	U	P-O3'-C3'	-6.49	111.91	119.70
5	M	407	U	OP2-P-O3'	-6.49	90.93	105.20
5	M	439	U	O3'-P-O5'	6.49	116.32	104.00
6	N	445	U	P-O3'-C3'	-6.48	111.92	119.70
1	I	36	A	OP1-P-O3'	-6.48	90.94	105.20
3	K	85	A	OP1-P-O3'	-6.48	90.95	105.20
2	J	194	A	OP2-P-O3'	6.48	119.45	105.20
5	M	433	U	O3'-P-O5'	-6.48	91.69	104.00
4	L	415	U	OP1-P-O3'	6.47	119.44	105.20
4	L	636	U	OP2-P-O3'	6.47	119.44	105.20
3	K	210	A	P-O3'-C3'	6.47	127.47	119.70
1	I	164	A	P-O3'-C3'	6.47	127.46	119.70
5	M	343	U	O3'-P-O5'	6.47	116.29	104.00
2	J	254	A	O3'-P-O5'	-6.47	91.71	104.00
5	M	482	U	OP1-P-O3'	-6.47	90.97	105.20
6	N	373	U	OP1-P-O3'	6.47	119.43	105.20
2	J	18	A	OP2-P-O3'	-6.46	90.99	105.20
5	M	440	U	OP2-P-O3'	-6.46	90.99	105.20
1	I	42	A	OP1-P-O3'	-6.46	90.99	105.20
4	L	630	U	O3'-P-O5'	6.46	116.27	104.00
2	J	199	A	O3'-P-O5'	6.45	116.26	104.00
6	N	525	U	P-O3'-C3'	6.45	127.44	119.70
2	J	213	A	P-O3'-C3'	-6.45	111.96	119.70
3	K	130	A	OP2-P-O3'	6.45	119.39	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	304	U	OP2-P-O3'	-6.44	91.02	105.20
6	N	332	U	OP2-P-O3'	6.44	119.38	105.20
6	N	394	U	OP1-P-O3'	-6.44	91.02	105.20
1	I	382	A	P-O3'-C3'	6.44	127.43	119.70
3	K	57	A	P-O3'-C3'	6.44	127.43	119.70
4	L	598	U	O3'-P-O5'	6.44	116.24	104.00
1	I	166	A	OP1-P-O3'	-6.44	91.04	105.20
2	J	161	A	OP1-P-O3'	-6.44	91.04	105.20
2	J	249	A	OP1-P-O3'	-6.44	91.04	105.20
4	L	770	U	OP2-P-O3'	6.44	119.36	105.20
5	M	455	U	O3'-P-O5'	-6.44	91.77	104.00
1	I	344	A	OP2-P-O3'	-6.43	91.05	105.20
4	L	533	U	OP1-P-O3'	-6.43	91.05	105.20
3	K	115	A	OP2-P-O3'	6.43	119.35	105.20
3	K	205	A	OP1-P-O3'	6.43	119.35	105.20
1	I	222	A	OP1-P-O3'	-6.42	91.07	105.20
1	I	196	A	OP1-P-O3'	-6.42	91.08	105.20
5	M	370	U	OP2-P-O3'	-6.41	91.09	105.20
1	I	231	A	OP1-P-O3'	-6.41	91.11	105.20
4	L	796	U	OP2-P-O3'	-6.41	91.11	105.20
5	M	284	U	OP2-P-O3'	-6.41	91.11	105.20
3	K	130	A	OP1-P-O3'	-6.40	91.11	105.20
4	L	717	U	O3'-P-O5'	-6.40	91.83	104.00
5	M	504	U	OP1-P-O3'	-6.40	91.11	105.20
2	J	74	A	O3'-P-O5'	6.40	116.16	104.00
1	I	396	A	OP2-P-O3'	6.40	119.27	105.20
1	I	254	A	O3'-P-O5'	-6.39	91.85	104.00
6	N	382	U	P-O3'-C3'	6.39	127.37	119.70
4	L	733	U	OP1-P-O3'	-6.39	91.14	105.20
6	N	396	U	O3'-P-O5'	-6.39	91.86	104.00
2	J	3	A	OP1-P-O3'	6.39	119.25	105.20
4	L	613	U	OP2-P-O3'	6.39	119.25	105.20
1	I	195	A	OP1-P-O3'	-6.38	91.16	105.20
1	I	285	A	OP1-P-O3'	-6.38	91.16	105.20
5	M	477	U	O3'-P-O5'	6.38	116.12	104.00
6	N	455	U	O3'-P-O5'	-6.38	91.87	104.00
1	I	3	A	OP1-P-O3'	6.38	119.23	105.20
6	N	476	U	OP1-P-O3'	-6.38	91.17	105.20
4	L	739	U	OP1-P-O3'	-6.38	91.17	105.20
5	M	494	U	OP1-P-O3'	-6.38	91.17	105.20
4	L	563	U	OP1-P-O3'	6.36	119.19	105.20
3	K	47	A	O3'-P-O5'	-6.36	91.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	243	A	OP1-P-O3'	6.36	119.19	105.20
5	M	534	U	OP1-P-O3'	6.36	119.18	105.20
4	L	809	U	O3'-P-O5'	6.35	116.07	104.00
4	L	821	U	O3'-P-O5'	-6.35	91.93	104.00
3	K	63	A	OP2-P-O3'	-6.35	91.23	105.20
6	N	350	U	OP1-P-O3'	6.35	119.17	105.20
1	I	80	A	OP1-P-O3'	-6.35	91.24	105.20
4	L	621	U	P-O3'-C3'	-6.35	112.08	119.70
4	L	562	U	P-O3'-C3'	-6.34	112.09	119.70
4	L	538	U	OP1-P-O3'	6.34	119.14	105.20
2	J	116	A	P-O3'-C3'	6.34	127.30	119.70
3	K	134	A	O3'-P-O5'	6.33	116.04	104.00
2	J	91	A	OP1-P-O3'	-6.33	91.26	105.20
6	N	433	U	OP1-P-O3'	6.33	119.13	105.20
1	I	16	A	O3'-P-O5'	-6.33	91.97	104.00
5	M	312	U	OP2-P-O3'	-6.33	91.27	105.20
6	N	289	U	P-O3'-C3'	-6.33	112.11	119.70
4	L	536	U	O3'-P-O5'	-6.33	91.98	104.00
4	L	680	U	O3'-P-O5'	6.33	116.02	104.00
6	N	475	U	P-O3'-C3'	-6.33	112.11	119.70
6	N	414	U	OP1-P-O3'	6.32	119.11	105.20
1	I	311	A	OP1-P-O3'	-6.32	91.30	105.20
1	I	244	A	OP2-P-O3'	-6.32	91.30	105.20
3	K	24	A	O3'-P-O5'	6.32	116.00	104.00
3	K	258	A	OP1-P-O3'	6.32	119.09	105.20
5	M	480	U	OP1-P-O3'	6.32	119.09	105.20
6	N	471	U	O3'-P-O5'	6.31	116.00	104.00
1	I	239	A	OP2-P-O3'	6.31	119.08	105.20
4	L	744	U	O3'-P-O5'	6.31	115.99	104.00
1	I	237	A	P-O3'-C3'	-6.31	112.13	119.70
5	M	337	U	O3'-P-O5'	-6.31	92.02	104.00
1	I	299	A	O3'-P-O5'	-6.30	92.02	104.00
6	N	522	U	OP2-P-O3'	-6.30	91.33	105.20
3	K	123	A	P-O3'-C3'	-6.30	112.14	119.70
6	N	317	U	OP1-P-O3'	6.30	119.06	105.20
4	L	484	U	OP1-P-O3'	-6.29	91.36	105.20
6	N	494	U	P-O3'-C3'	6.29	127.25	119.70
4	L	429	U	O3'-P-O5'	-6.29	92.05	104.00
4	L	624	U	P-O3'-C3'	-6.29	112.15	119.70
5	M	388	U	OP2-P-O3'	-6.29	91.36	105.20
6	N	502	U	OP2-P-O3'	6.29	119.03	105.20
2	J	246	A	P-O3'-C3'	-6.28	112.16	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	378	U	OP1-P-O3'	6.28	119.02	105.20
1	I	272	A	P-O3'-C3'	-6.28	112.17	119.70
2	J	57	A	OP2-P-O3'	-6.28	91.39	105.20
1	I	85	A	OP1-P-O3'	-6.27	91.41	105.20
4	L	804	U	P-O3'-C3'	-6.27	112.18	119.70
1	I	292	A	OP2-P-O3'	6.27	118.99	105.20
2	J	71	A	OP2-P-O3'	6.26	118.98	105.20
4	L	559	U	OP2-P-O3'	6.26	118.97	105.20
5	M	446	U	OP2-P-O3'	-6.26	91.44	105.20
6	N	427	U	OP1-P-O3'	-6.25	91.45	105.20
2	J	209	A	OP1-P-O3'	-6.25	91.46	105.20
6	N	494	U	O3'-P-O5'	6.25	115.86	104.00
1	I	167	A	O3'-P-O5'	6.24	115.86	104.00
4	L	781	U	P-O3'-C3'	-6.24	112.21	119.70
2	J	152	A	OP1-P-O3'	-6.24	91.47	105.20
6	N	441	U	O3'-P-O5'	6.24	115.85	104.00
6	N	378	U	OP2-P-O3'	-6.23	91.49	105.20
4	L	428	U	O3'-P-O5'	-6.23	92.16	104.00
2	J	26	A	OP1-P-O3'	-6.23	91.50	105.20
3	K	144	A	P-O3'-C3'	6.22	127.17	119.70
4	L	799	U	P-O3'-C3'	-6.22	112.23	119.70
4	L	432	U	O3'-P-O5'	6.22	115.82	104.00
5	M	396	U	OP1-P-O3'	-6.22	91.52	105.20
2	J	46	A	OP1-P-O3'	-6.21	91.54	105.20
3	K	121	A	OP1-P-O3'	-6.21	91.54	105.20
3	K	69	A	OP1-P-O3'	6.21	118.85	105.20
3	K	58	A	P-O3'-C3'	6.21	127.15	119.70
4	L	467	U	O3'-P-O5'	6.21	115.79	104.00
5	M	302	U	P-O3'-C3'	-6.20	112.26	119.70
3	K	152	A	O3'-P-O5'	-6.20	92.22	104.00
4	L	557	U	OP1-P-O3'	-6.20	91.57	105.20
1	I	292	A	O3'-P-O5'	6.19	115.76	104.00
1	I	273	A	OP1-P-O3'	-6.19	91.59	105.20
2	J	175	A	OP2-P-O3'	6.19	118.81	105.20
4	L	479	U	OP1-P-O3'	-6.19	91.59	105.20
1	I	365	A	O3'-P-O5'	6.19	115.75	104.00
1	I	71	A	OP1-P-O3'	-6.18	91.59	105.20
4	L	704	U	O3'-P-O5'	6.18	115.75	104.00
4	L	761	U	OP1-P-O3'	6.18	118.80	105.20
6	N	301	U	OP1-P-O3'	6.18	118.80	105.20
6	N	302	U	OP1-P-O3'	6.18	118.80	105.20
1	I	16	A	OP1-P-O3'	-6.18	91.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	296	A	OP1-P-O3'	-6.18	91.61	105.20
5	M	505	U	OP2-P-O3'	6.18	118.79	105.20
1	I	25	A	OP2-P-O3'	6.17	118.78	105.20
1	I	408	A	O3'-P-O5'	-6.17	92.28	104.00
5	M	359	U	P-O3'-C3'	-6.17	112.30	119.70
6	N	485	U	P-O3'-C3'	-6.17	112.30	119.70
2	J	104	A	O3'-P-O5'	6.16	115.71	104.00
2	J	147	A	OP1-P-O3'	6.16	118.76	105.20
1	I	365	A	OP2-P-O3'	-6.16	91.65	105.20
4	L	677	U	P-O3'-C3'	-6.16	112.31	119.70
1	I	351	A	OP1-P-O3'	6.16	118.75	105.20
1	I	165	A	O3'-P-O5'	-6.15	92.31	104.00
4	L	580	U	P-O3'-C3'	-6.15	112.32	119.70
3	K	105	A	OP1-P-O3'	6.15	118.73	105.20
1	I	324	A	OP1-P-O3'	-6.14	91.68	105.20
6	N	472	U	OP1-P-O3'	6.14	118.72	105.20
4	L	605	U	OP1-P-O3'	-6.14	91.69	105.20
4	L	713	U	OP1-P-O3'	-6.14	91.69	105.20
2	J	268	A	P-O3'-C3'	-6.14	112.33	119.70
6	N	463	U	OP1-P-O3'	-6.14	91.70	105.20
1	I	276	A	P-O3'-C3'	-6.14	112.34	119.70
3	K	88	A	OP2-P-O3'	-6.14	91.70	105.20
1	I	223	A	O3'-P-O5'	-6.13	92.34	104.00
2	J	51	A	OP1-P-O3'	6.13	118.69	105.20
2	J	133	A	OP1-P-O3'	-6.13	91.70	105.20
4	L	820	U	OP2-P-O3'	-6.13	91.71	105.20
1	I	254	A	OP1-P-O3'	-6.13	91.71	105.20
1	I	96	A	P-O3'-C3'	-6.13	112.35	119.70
2	J	240	A	P-O3'-C3'	-6.12	112.35	119.70
2	J	274	A	O3'-P-O5'	6.12	115.63	104.00
6	N	516	U	OP1-P-O3'	6.12	118.65	105.20
2	J	142	A	OP2-P-O3'	6.11	118.64	105.20
3	K	182	A	P-O3'-C3'	6.11	127.03	119.70
3	K	132	A	OP1-P-O3'	-6.11	91.77	105.20
5	M	339	U	OP1-P-O3'	-6.11	91.76	105.20
1	I	81	A	OP1-P-O3'	-6.11	91.77	105.20
3	K	27	A	O3'-P-O5'	6.10	115.60	104.00
5	M	322	U	OP1-P-O3'	-6.10	91.77	105.20
4	L	459	U	OP1-P-O3'	-6.10	91.78	105.20
4	L	572	U	P-O3'-C3'	-6.10	112.38	119.70
5	M	535	U	OP2-P-O3'	6.10	118.61	105.20
5	M	412	U	OP2-P-O3'	6.09	118.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	445	U	P-O3'-C3'	-6.09	112.39	119.70
6	N	295	U	P-O3'-C3'	6.09	127.01	119.70
1	I	371	A	OP2-P-O3'	6.09	118.59	105.20
3	K	217	A	P-O3'-C3'	-6.09	112.39	119.70
4	L	645	U	P-O3'-C3'	-6.08	112.40	119.70
2	J	97	A	P-O3'-C3'	-6.08	112.40	119.70
6	N	267	U	O3'-P-O5'	6.08	115.55	104.00
6	N	384	U	OP1-P-O3'	6.08	118.57	105.20
6	N	302	U	OP2-P-O3'	6.08	118.57	105.20
1	I	178	A	OP2-P-O3'	6.07	118.56	105.20
4	L	798	U	P-O3'-C3'	-6.07	112.42	119.70
6	N	274	U	OP2-P-O3'	6.07	118.54	105.20
2	J	48	A	OP1-P-O3'	-6.06	91.86	105.20
4	L	693	U	OP1-P-O3'	6.06	118.54	105.20
1	I	103	A	OP1-P-O3'	6.06	118.52	105.20
5	M	348	U	OP1-P-O3'	6.06	118.52	105.20
1	I	60	A	OP1-P-O3'	6.05	118.52	105.20
3	K	240	A	O3'-P-O5'	-6.05	92.50	104.00
6	N	319	U	P-O3'-C3'	6.05	126.96	119.70
1	I	48	A	OP1-P-O3'	-6.05	91.89	105.20
6	N	372	U	O3'-P-O5'	6.04	115.48	104.00
1	I	310	A	OP1-P-O3'	-6.04	91.92	105.20
2	J	81	A	O3'-P-O5'	-6.04	92.53	104.00
5	M	292	U	O3'-P-O5'	6.04	115.47	104.00
4	L	428	U	OP1-P-O3'	6.03	118.48	105.20
6	N	405	U	P-O3'-C3'	-6.03	112.46	119.70
4	L	452	U	O3'-P-O5'	6.03	115.45	104.00
4	L	523	U	P-O3'-C3'	-6.03	112.47	119.70
4	L	554	U	P-O3'-C3'	-6.03	112.47	119.70
5	M	496	U	OP1-P-O3'	-6.03	91.94	105.20
2	J	125	A	P-O3'-C3'	-6.02	112.48	119.70
5	M	393	U	OP2-P-O3'	6.02	118.44	105.20
1	I	94	A	OP1-P-O3'	6.01	118.43	105.20
4	L	524	U	O3'-P-O5'	6.01	115.43	104.00
1	I	25	A	OP1-P-O3'	-6.01	91.98	105.20
1	I	212	A	OP2-P-O3'	6.01	118.42	105.20
2	J	107	A	OP2-P-O3'	6.01	118.42	105.20
2	J	256	A	O3'-P-O5'	6.01	115.42	104.00
3	K	177	A	P-O3'-C3'	-6.01	112.49	119.70
1	I	217	A	P-O3'-C3'	-6.01	112.49	119.70
2	J	40	A	OP2-P-O3'	6.01	118.42	105.20
2	J	209	A	O3'-P-O5'	-6.00	92.59	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	436	U	P-O3'-C3'	6.00	126.90	119.70
5	M	501	U	OP2-P-O3'	6.00	118.40	105.20
4	L	762	U	OP2-P-O3'	-6.00	92.00	105.20
2	J	200	A	P-O3'-C3'	-6.00	112.51	119.70
1	I	372	A	OP1-P-O3'	-5.99	92.02	105.20
4	L	689	U	OP2-P-O3'	-5.99	92.02	105.20
2	J	137	A	OP2-P-O3'	-5.99	92.02	105.20
4	L	542	U	P-O3'-C3'	-5.98	112.53	119.70
5	M	328	U	OP1-P-O3'	-5.98	92.05	105.20
5	M	528	U	OP1-P-O3'	-5.97	92.06	105.20
2	J	120	A	P-O3'-C3'	-5.97	112.54	119.70
2	J	164	A	P-O3'-C3'	-5.97	112.54	119.70
3	K	84	A	P-O3'-C3'	-5.96	112.55	119.70
1	I	313	A	O3'-P-O5'	-5.96	92.68	104.00
3	K	125	A	OP1-P-O3'	-5.96	92.09	105.20
4	L	675	U	OP1-P-O3'	-5.96	92.09	105.20
6	N	375	U	OP2-P-O3'	5.96	118.31	105.20
2	J	213	A	OP2-P-O3'	-5.96	92.09	105.20
3	K	61	A	OP1-P-O3'	5.96	118.31	105.20
1	I	360	A	OP2-P-O3'	5.95	118.30	105.20
4	L	703	U	O3'-P-O5'	-5.95	92.69	104.00
5	M	436	U	P-O3'-C3'	-5.95	112.56	119.70
4	L	467	U	OP1-P-O3'	-5.95	92.11	105.20
6	N	283	U	P-O3'-C3'	-5.94	112.57	119.70
2	J	10	A	O3'-P-O5'	5.94	115.29	104.00
3	K	194	A	OP1-P-O3'	5.94	118.27	105.20
2	J	37	A	OP2-P-O3'	5.94	118.27	105.20
5	M	365	U	OP2-P-O3'	5.94	118.27	105.20
1	I	82	A	OP1-P-O3'	-5.93	92.14	105.20
6	N	514	U	OP2-P-O3'	5.93	118.25	105.20
4	L	624	U	OP2-P-O3'	-5.92	92.17	105.20
1	I	264	A	OP1-P-O3'	-5.92	92.17	105.20
3	K	258	A	P-O3'-C3'	-5.92	112.59	119.70
1	I	328	A	OP2-P-O3'	5.92	118.22	105.20
1	I	347	A	OP2-P-O3'	5.92	118.22	105.20
2	J	107	A	OP1-P-O3'	-5.92	92.18	105.20
1	I	129	A	O3'-P-O5'	5.92	115.24	104.00
2	J	113	A	OP1-P-O3'	-5.92	92.18	105.20
6	N	348	U	P-O3'-C3'	5.92	126.80	119.70
1	I	345	A	OP1-P-O3'	-5.91	92.19	105.20
2	J	14	A	OP1-P-O3'	-5.91	92.21	105.20
6	N	365	U	P-O3'-C3'	-5.90	112.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	119	A	OP2-P-O3'	-5.90	92.22	105.20
4	L	525	U	OP1-P-O3'	-5.90	92.22	105.20
6	N	285	U	OP2-P-O3'	-5.90	92.22	105.20
1	I	7	A	O3'-P-O5'	5.90	115.21	104.00
4	L	672	U	OP1-P-O3'	5.90	118.17	105.20
4	L	780	U	OP2-P-O3'	5.89	118.17	105.20
4	L	442	U	P-O3'-C3'	5.89	126.77	119.70
5	M	532	U	O3'-P-O5'	5.89	115.19	104.00
1	I	171	A	P-O3'-C3'	5.89	126.76	119.70
4	L	536	U	P-O3'-C3'	-5.89	112.64	119.70
5	M	449	U	OP2-P-O3'	5.88	118.14	105.20
1	I	280	A	P-O3'-C3'	5.88	126.75	119.70
2	J	134	A	P-O3'-C3'	-5.88	112.64	119.70
3	K	205	A	P-O3'-C3'	-5.88	112.65	119.70
4	L	481	U	OP1-P-O3'	-5.88	92.27	105.20
5	M	450	U	OP1-P-O3'	5.88	118.13	105.20
1	I	154	A	O3'-P-O5'	5.88	115.16	104.00
2	J	134	A	OP2-P-O3'	-5.87	92.28	105.20
4	L	476	U	O3'-P-O5'	5.87	115.16	104.00
6	N	389	U	P-O3'-C3'	5.87	126.75	119.70
3	K	170	A	OP1-P-O3'	-5.87	92.28	105.20
3	K	261	A	OP2-P-O3'	-5.87	92.28	105.20
3	K	215	A	O3'-P-O5'	-5.87	92.85	104.00
6	N	480	U	OP2-P-O3'	5.86	118.10	105.20
6	N	521	U	OP2-P-O3'	5.86	118.09	105.20
2	J	174	A	OP2-P-O3'	-5.85	92.33	105.20
3	K	23	A	O3'-P-O5'	5.85	115.12	104.00
6	N	291	U	O3'-P-O5'	5.85	115.12	104.00
1	I	381	A	OP1-P-O3'	5.85	118.07	105.20
3	K	264	A	O3'-P-O5'	5.85	115.11	104.00
4	L	479	U	OP2-P-O3'	-5.84	92.34	105.20
1	I	325	A	OP1-P-O3'	5.84	118.05	105.20
4	L	439	U	OP2-P-O3'	5.84	118.04	105.20
4	L	613	U	P-O3'-C3'	-5.83	112.70	119.70
2	J	117	A	O3'-P-O5'	5.83	115.08	104.00
2	J	9	A	OP1-P-O3'	5.83	118.02	105.20
6	N	457	U	OP2-P-O3'	-5.83	92.38	105.20
3	K	74	A	OP1-P-O3'	-5.82	92.39	105.20
6	N	267	U	OP2-P-O3'	-5.82	92.39	105.20
6	N	413	U	OP2-P-O3'	5.82	118.01	105.20
3	K	188	A	OP1-P-O3'	5.82	118.01	105.20
4	L	638	U	O3'-P-O5'	-5.82	92.94	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	243	A	O3'-P-O5'	5.82	115.06	104.00
4	L	578	U	OP1-P-O3'	-5.82	92.40	105.20
4	L	648	U	O3'-P-O5'	-5.82	92.95	104.00
4	L	809	U	OP2-P-O3'	-5.82	92.40	105.20
1	I	326	A	O3'-P-O5'	-5.81	92.96	104.00
1	I	387	A	P-O3'-C3'	-5.81	112.73	119.70
2	J	3	A	OP2-P-O3'	-5.81	92.42	105.20
6	N	374	U	O3'-P-O5'	-5.81	92.96	104.00
5	M	362	U	P-O3'-C3'	-5.80	112.73	119.70
1	I	12	A	O3'-P-O5'	-5.80	92.98	104.00
4	L	414	U	OP1-P-O3'	5.80	117.96	105.20
2	J	18	A	OP1-P-O3'	5.80	117.96	105.20
1	I	240	A	P-O3'-C3'	-5.80	112.74	119.70
5	M	431	U	OP2-P-O3'	5.79	117.95	105.20
6	N	515	U	P-O3'-C3'	-5.79	112.75	119.70
4	L	714	U	OP1-P-O3'	5.79	117.95	105.20
4	L	783	U	OP1-P-O3'	5.79	117.95	105.20
1	I	158	A	P-O3'-C3'	-5.79	112.76	119.70
4	L	466	U	OP2-P-O3'	5.78	117.92	105.20
4	L	584	U	O3'-P-O5'	5.78	114.98	104.00
4	L	710	U	P-O3'-C3'	-5.78	112.77	119.70
3	K	244	A	OP1-P-O3'	5.78	117.91	105.20
3	K	173	A	O3'-P-O5'	5.77	114.97	104.00
2	J	262	A	OP2-P-O3'	5.77	117.90	105.20
3	K	26	A	P-O3'-C3'	5.77	126.62	119.70
3	K	213	A	OP1-P-O3'	5.76	117.88	105.20
5	M	550	U	OP1-P-O3'	5.76	117.88	105.20
5	M	463	U	OP1-P-O3'	-5.76	92.52	105.20
1	I	5	A	OP1-P-O3'	5.76	117.87	105.20
1	I	151	A	OP2-P-O3'	-5.76	92.54	105.20
2	J	130	A	OP1-P-O3'	-5.75	92.54	105.20
5	M	390	U	P-O3'-C3'	-5.75	112.80	119.70
1	I	212	A	OP1-P-O3'	-5.75	92.56	105.20
1	I	239	A	P-O3'-C3'	-5.75	112.80	119.70
4	L	562	U	OP2-P-O3'	-5.75	92.56	105.20
3	K	82	A	O3'-P-O5'	-5.74	93.09	104.00
4	L	451	U	OP1-P-O3'	5.74	117.83	105.20
5	M	535	U	O3'-P-O5'	-5.74	93.09	104.00
5	M	543	U	P-O3'-C3'	-5.74	112.81	119.70
6	N	483	U	O3'-P-O5'	-5.74	93.09	104.00
4	L	696	U	OP1-P-O3'	5.74	117.83	105.20
1	I	226	A	OP1-P-O3'	-5.74	92.58	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	341	U	O3'-P-O5'	5.74	114.90	104.00
2	J	106	A	O3'-P-O5'	-5.74	93.10	104.00
5	M	500	U	OP1-P-O3'	5.73	117.81	105.20
2	J	13	A	OP2-P-O3'	-5.73	92.59	105.20
1	I	346	A	OP1-P-O3'	-5.72	92.61	105.20
1	I	402	A	OP2-P-O3'	5.72	117.79	105.20
3	K	230	A	P-O3'-C3'	-5.72	112.83	119.70
5	M	384	U	O3'-P-O5'	-5.72	93.12	104.00
1	I	399	A	OP2-P-O3'	-5.72	92.61	105.20
3	K	236	A	P-O3'-C3'	5.72	126.57	119.70
6	N	308	U	OP1-P-O3'	5.72	117.79	105.20
2	J	239	A	O3'-P-O5'	5.72	114.86	104.00
6	N	324	U	P-O3'-C3'	5.72	126.56	119.70
4	L	744	U	OP1-P-O3'	-5.71	92.63	105.20
3	K	207	A	OP1-P-O3'	5.71	117.77	105.20
1	I	307	A	O3'-P-O5'	-5.71	93.15	104.00
5	M	356	U	O3'-P-O5'	5.71	114.85	104.00
5	M	491	U	O3'-P-O5'	5.71	114.85	104.00
4	L	524	U	OP1-P-O3'	-5.71	92.64	105.20
6	N	510	U	OP1-P-O3'	5.71	117.75	105.20
3	K	60	A	OP2-P-O3'	5.70	117.75	105.20
3	K	210	A	OP2-P-O3'	5.70	117.74	105.20
4	L	652	U	O3'-P-O5'	5.69	114.81	104.00
6	N	388	U	O3'-P-O5'	5.69	114.82	104.00
6	N	402	U	OP2-P-O3'	5.69	117.72	105.20
1	I	380	A	OP1-P-O3'	5.69	117.72	105.20
3	K	41	A	O3'-P-O5'	5.68	114.80	104.00
1	I	40	A	OP1-P-O3'	5.68	117.69	105.20
2	J	77	A	O3'-P-O5'	5.68	114.79	104.00
2	J	243	A	P-O3'-C3'	5.68	126.52	119.70
2	J	119	A	P-O3'-C3'	-5.68	112.89	119.70
3	K	182	A	OP1-P-O3'	5.68	117.69	105.20
4	L	664	U	OP2-P-O3'	-5.67	92.72	105.20
2	J	248	A	OP2-P-O3'	5.67	117.67	105.20
1	I	279	A	P-O3'-C3'	-5.67	112.90	119.70
5	M	330	U	OP1-P-O3'	-5.67	92.73	105.20
6	N	348	U	OP1-P-O3'	5.67	117.67	105.20
6	N	420	U	P-O3'-C3'	-5.66	112.90	119.70
5	M	519	U	OP1-P-O3'	-5.66	92.74	105.20
1	I	388	A	P-O3'-C3'	5.66	126.49	119.70
6	N	363	U	P-O3'-C3'	-5.66	112.91	119.70
4	L	646	U	P-O3'-C3'	-5.66	112.91	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	179	A	OP1-P-O3'	-5.65	92.77	105.20
4	L	687	U	P-O3'-C3'	-5.65	112.92	119.70
5	M	298	U	OP1-P-O3'	-5.65	92.76	105.20
1	I	337	A	OP1-P-O3'	-5.65	92.77	105.20
3	K	23	A	OP2-P-O3'	-5.65	92.77	105.20
1	I	76	A	OP1-P-O3'	-5.65	92.78	105.20
3	K	2	A	OP1-P-O3'	5.65	117.62	105.20
4	L	633	U	OP1-P-O3'	5.65	117.62	105.20
6	N	463	U	OP2-P-O3'	5.65	117.62	105.20
4	L	553	U	O3'-P-O5'	-5.64	93.28	104.00
5	M	413	U	OP2-P-O3'	-5.64	92.80	105.20
1	I	59	A	OP1-P-O3'	-5.64	92.80	105.20
1	I	140	A	OP1-P-O3'	5.64	117.60	105.20
4	L	626	U	OP2-P-O3'	-5.64	92.80	105.20
1	I	169	A	OP2-P-O3'	-5.63	92.80	105.20
4	L	615	U	OP1-P-O3'	-5.63	92.81	105.20
5	M	476	U	OP1-P-O3'	-5.63	92.81	105.20
1	I	244	A	P-O3'-C3'	-5.63	112.94	119.70
1	I	383	A	OP2-P-O3'	-5.63	92.81	105.20
2	J	127	A	OP2-P-O3'	5.63	117.58	105.20
5	M	317	U	OP1-P-O3'	-5.62	92.83	105.20
3	K	158	A	OP1-P-O3'	-5.62	92.83	105.20
4	L	773	U	OP2-P-O3'	-5.62	92.83	105.20
2	J	125	A	O3'-P-O5'	5.62	114.68	104.00
1	I	400	A	P-O3'-C3'	5.62	126.44	119.70
1	I	39	A	OP2-P-O3'	-5.62	92.84	105.20
5	M	454	U	OP1-P-O3'	-5.62	92.85	105.20
6	N	482	U	OP2-P-O3'	5.62	117.55	105.20
3	K	112	A	P-O3'-C3'	-5.61	112.96	119.70
4	L	771	U	OP1-P-O3'	-5.61	92.86	105.20
6	N	306	U	OP1-P-O3'	5.61	117.54	105.20
1	I	317	A	P-O3'-C3'	-5.61	112.97	119.70
3	K	146	A	OP1-P-O3'	5.61	117.54	105.20
3	K	263	A	O3'-P-O5'	5.61	114.66	104.00
5	M	399	U	OP1-P-O3'	-5.61	92.86	105.20
1	I	27	A	OP1-P-O3'	-5.60	92.88	105.20
3	K	31	A	OP1-P-O3'	5.60	117.52	105.20
1	I	150	A	O3'-P-O5'	5.59	114.63	104.00
1	I	258	A	O3'-P-O5'	5.59	114.63	104.00
2	J	6	A	P-O3'-C3'	-5.59	112.99	119.70
6	N	361	U	P-O3'-C3'	-5.58	113.00	119.70
1	I	142	A	OP1-P-O3'	5.58	117.48	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	160	A	OP2-P-O3'	5.58	117.47	105.20
5	M	481	U	OP2-P-O3'	-5.58	92.93	105.20
1	I	152	A	OP1-P-O3'	5.58	117.47	105.20
6	N	493	U	OP1-P-O3'	5.57	117.45	105.20
2	J	27	A	OP1-P-O3'	-5.57	92.95	105.20
1	I	70	A	OP1-P-O3'	-5.56	92.96	105.20
3	K	87	A	OP2-P-O3'	5.56	117.44	105.20
1	I	314	A	O3'-P-O5'	-5.55	93.45	104.00
3	K	235	A	P-O3'-C3'	-5.55	113.03	119.70
4	L	460	U	OP1-P-O3'	-5.55	92.98	105.20
4	L	574	U	OP2-P-O3'	5.55	117.42	105.20
3	K	48	A	O3'-P-O5'	5.55	114.55	104.00
5	M	363	U	P-O3'-C3'	5.54	126.35	119.70
1	I	389	A	OP2-P-O3'	-5.54	93.01	105.20
4	L	785	U	P-O3'-C3'	-5.54	113.05	119.70
1	I	256	A	O3'-P-O5'	-5.54	93.48	104.00
3	K	95	A	O3'-P-O5'	-5.53	93.48	104.00
6	N	305	U	OP2-P-O3'	5.53	117.37	105.20
1	I	293	A	OP1-P-O3'	-5.53	93.05	105.20
3	K	141	A	P-O3'-C3'	5.52	126.33	119.70
2	J	143	A	OP1-P-O3'	-5.51	93.07	105.20
1	I	93	A	OP2-P-O3'	5.51	117.32	105.20
1	I	161	A	OP1-P-O3'	-5.51	93.08	105.20
5	M	485	U	O3'-P-O5'	-5.51	93.54	104.00
4	L	553	U	P-O3'-C3'	-5.50	113.09	119.70
1	I	155	A	OP1-P-O3'	5.50	117.31	105.20
1	I	167	A	OP1-P-O3'	-5.50	93.10	105.20
5	M	345	U	OP2-P-O3'	5.50	117.30	105.20
6	N	449	U	OP1-P-O3'	-5.48	93.14	105.20
4	L	625	U	P-O3'-C3'	-5.48	113.12	119.70
2	J	121	A	O3'-P-O5'	5.48	114.41	104.00
3	K	24	A	OP1-P-O3'	5.48	117.25	105.20
4	L	476	U	OP1-P-O3'	-5.48	93.15	105.20
5	M	362	U	OP1-P-O3'	5.48	117.25	105.20
4	L	641	U	OP1-P-O3'	-5.48	93.15	105.20
2	J	157	A	O3'-P-O5'	5.47	114.40	104.00
5	M	316	U	O3'-P-O5'	5.47	114.40	104.00
6	N	340	U	O3'-P-O5'	-5.47	93.60	104.00
1	I	284	A	OP1-P-O3'	-5.47	93.17	105.20
3	K	50	A	OP1-P-O3'	5.47	117.23	105.20
6	N	519	U	OP2-P-O3'	-5.47	93.17	105.20
1	I	80	A	O3'-P-O5'	5.47	114.39	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	805	U	OP2-P-O3'	5.46	117.22	105.20
1	I	279	A	OP1-P-O3'	-5.46	93.18	105.20
1	I	171	A	OP1-P-O3'	5.46	117.21	105.20
2	J	207	A	OP1-P-O3'	-5.46	93.19	105.20
4	L	682	U	OP2-P-O3'	5.46	117.21	105.20
5	M	522	U	OP1-P-O3'	-5.46	93.19	105.20
4	L	567	U	OP2-P-O3'	5.46	117.20	105.20
4	L	702	U	O3'-P-O5'	5.46	114.36	104.00
5	M	477	U	OP1-P-O3'	-5.45	93.20	105.20
1	I	175	A	P-O3'-C3'	-5.45	113.16	119.70
1	I	197	A	OP1-P-O3'	-5.45	93.22	105.20
4	L	805	U	O3'-P-O5'	-5.44	93.66	104.00
1	I	179	A	O3'-P-O5'	-5.44	93.67	104.00
4	L	676	U	O3'-P-O5'	5.43	114.33	104.00
1	I	352	A	OP1-P-O3'	5.43	117.15	105.20
3	K	103	A	OP2-P-O3'	5.43	117.15	105.20
2	J	211	A	O3'-P-O5'	-5.43	93.68	104.00
5	M	417	U	O3'-P-O5'	-5.43	93.68	104.00
6	N	503	U	O3'-P-O5'	5.43	114.32	104.00
1	I	220	A	P-O3'-C3'	-5.43	113.19	119.70
1	I	157	A	OP2-P-O3'	5.43	117.14	105.20
1	I	63	A	O3'-P-O5'	-5.42	93.70	104.00
3	K	67	A	P-O3'-C3'	-5.42	113.20	119.70
1	I	355	A	OP2-P-O3'	5.42	117.12	105.20
6	N	519	U	OP1-P-O3'	5.42	117.11	105.20
5	M	502	U	OP1-P-O3'	5.41	117.11	105.20
4	L	474	U	OP1-P-O3'	-5.41	93.30	105.20
1	I	60	A	O3'-P-O5'	-5.41	93.73	104.00
3	K	52	A	P-O3'-C3'	-5.41	113.21	119.70
3	K	238	A	OP2-P-O3'	-5.40	93.31	105.20
5	M	304	U	O3'-P-O5'	5.40	114.26	104.00
5	M	383	U	OP1-P-O3'	5.40	117.08	105.20
5	M	473	U	OP1-P-O3'	-5.39	93.33	105.20
6	N	397	U	OP2-P-O3'	5.39	117.06	105.20
6	N	295	U	OP1-P-O3'	5.39	117.06	105.20
3	K	250	A	O3'-P-O5'	5.39	114.24	104.00
4	L	626	U	P-O3'-C3'	-5.39	113.24	119.70
3	K	129	A	O3'-P-O5'	-5.38	93.77	104.00
4	L	501	U	OP1-P-O3'	-5.38	93.35	105.20
3	K	155	A	OP1-P-O3'	-5.38	93.36	105.20
4	L	527	U	OP1-P-O3'	5.38	117.04	105.20
4	L	617	U	O3'-P-O5'	5.38	114.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	338	U	OP1-P-O3'	-5.38	93.37	105.20
4	L	769	U	OP2-P-O3'	5.38	117.03	105.20
5	M	352	U	P-O3'-C3'	-5.38	113.25	119.70
5	M	433	U	OP1-P-O3'	5.38	117.02	105.20
3	K	66	A	OP1-P-O3'	-5.37	93.39	105.20
6	N	525	U	OP1-P-O3'	5.37	117.01	105.20
2	J	155	A	OP1-P-O3'	5.37	117.00	105.20
6	N	346	U	P-O3'-C3'	-5.36	113.26	119.70
1	I	41	A	OP1-P-O3'	5.36	117.00	105.20
6	N	457	U	OP1-P-O3'	5.36	117.00	105.20
3	K	261	A	OP1-P-O3'	5.36	116.99	105.20
3	K	2	A	OP2-P-O3'	-5.36	93.41	105.20
3	K	209	A	OP2-P-O3'	-5.36	93.41	105.20
1	I	98	A	OP1-P-O3'	5.35	116.98	105.20
2	J	234	A	OP1-P-O3'	-5.35	93.42	105.20
3	K	261	A	P-O3'-C3'	5.35	126.12	119.70
4	L	475	U	OP1-P-O3'	-5.35	93.43	105.20
4	L	413	U	OP2-P-O3'	-5.35	93.44	105.20
3	K	36	A	P-O3'-C3'	-5.35	113.28	119.70
3	K	223	A	P-O3'-C3'	-5.34	113.29	119.70
6	N	424	U	OP1-P-O3'	5.34	116.95	105.20
2	J	132	A	OP1-P-O3'	-5.34	93.45	105.20
1	I	96	A	OP1-P-O3'	5.33	116.93	105.20
1	I	193	A	P-O3'-C3'	-5.33	113.30	119.70
4	L	756	U	OP1-P-O3'	-5.33	93.47	105.20
2	J	87	A	OP2-P-O3'	-5.33	93.47	105.20
4	L	519	U	OP1-P-O3'	-5.33	93.48	105.20
4	L	777	U	OP1-P-O3'	-5.33	93.48	105.20
3	K	35	A	OP2-P-O3'	5.33	116.92	105.20
4	L	669	U	O3'-P-O5'	-5.32	93.89	104.00
5	M	449	U	P-O3'-C3'	-5.32	113.31	119.70
5	M	287	U	OP1-P-O3'	-5.32	93.50	105.20
6	N	432	U	O3'-P-O5'	5.32	114.10	104.00
6	N	368	U	OP1-P-O3'	-5.31	93.51	105.20
6	N	316	U	OP1-P-O3'	5.31	116.88	105.20
3	K	173	A	OP2-P-O3'	5.31	116.88	105.20
1	I	97	A	P-O3'-C3'	-5.30	113.33	119.70
3	K	10	A	OP2-P-O3'	5.30	116.87	105.20
4	L	494	U	OP1-P-O3'	-5.30	93.53	105.20
4	L	747	U	OP1-P-O3'	-5.30	93.53	105.20
6	N	309	U	P-O3'-C3'	5.30	126.06	119.70
6	N	502	U	O3'-P-O5'	-5.30	93.93	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	252	A	OP1-P-O3'	-5.30	93.55	105.20
1	I	274	A	OP1-P-O3'	-5.29	93.55	105.20
4	L	709	U	OP2-P-O3'	-5.29	93.56	105.20
4	L	565	U	O3'-P-O5'	5.29	114.06	104.00
1	I	59	A	OP2-P-O3'	5.29	116.83	105.20
1	I	345	A	OP2-P-O3'	-5.29	93.56	105.20
2	J	250	A	P-O3'-C3'	-5.29	113.36	119.70
4	L	636	U	P-O3'-C3'	-5.29	113.36	119.70
4	L	655	U	OP1-P-O3'	-5.28	93.58	105.20
1	I	309	A	OP2-P-O3'	5.28	116.81	105.20
5	M	447	U	OP1-P-O3'	5.28	116.81	105.20
3	K	41	A	OP2-P-O3'	-5.27	93.60	105.20
5	M	491	U	P-O3'-C3'	-5.27	113.37	119.70
2	J	32	A	OP1-P-O3'	-5.27	93.60	105.20
4	L	534	U	OP2-P-O3'	5.27	116.80	105.20
6	N	415	U	OP2-P-O3'	-5.27	93.61	105.20
4	L	589	U	O3'-P-O5'	5.27	114.01	104.00
5	M	534	U	P-O3'-C3'	5.27	126.02	119.70
6	N	335	U	O3'-P-O5'	-5.27	93.99	104.00
4	L	533	U	O3'-P-O5'	-5.27	93.99	104.00
4	L	555	U	O3'-P-O5'	5.27	114.01	104.00
3	K	104	A	OP1-P-O3'	-5.26	93.62	105.20
1	I	52	A	OP1-P-O3'	-5.26	93.62	105.20
2	J	125	A	OP2-P-O3'	-5.26	93.63	105.20
6	N	427	U	O3'-P-O5'	-5.25	94.02	104.00
1	I	122	A	O3'-P-O5'	-5.25	94.03	104.00
6	N	436	U	O3'-P-O5'	-5.25	94.03	104.00
5	M	394	U	OP1-P-O3'	5.24	116.74	105.20
5	M	310	U	OP1-P-O3'	-5.24	93.67	105.20
4	L	427	U	O3'-P-O5'	-5.24	94.05	104.00
6	N	272	U	P-O3'-C3'	5.24	125.98	119.70
1	I	410	A	P-O3'-C3'	5.23	125.98	119.70
3	K	256	A	P-O3'-C3'	-5.23	113.42	119.70
5	M	388	U	O3'-P-O5'	5.23	113.94	104.00
5	M	506	U	OP1-P-O3'	-5.23	93.69	105.20
6	N	448	U	OP1-P-O3'	-5.23	93.70	105.20
6	N	455	U	OP1-P-O3'	-5.23	93.70	105.20
3	K	27	A	OP1-P-O3'	5.23	116.70	105.20
3	K	264	A	OP2-P-O3'	-5.22	93.71	105.20
3	K	26	A	OP1-P-O3'	5.22	116.68	105.20
4	L	707	U	OP2-P-O3'	5.21	116.66	105.20
5	M	355	U	OP2-P-O3'	5.21	116.66	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	543	U	OP2-P-O3'	-5.21	93.75	105.20
4	L	740	U	OP1-P-O3'	-5.21	93.75	105.20
3	K	137	A	OP1-P-O3'	-5.20	93.76	105.20
5	M	326	U	OP1-P-O3'	-5.20	93.76	105.20
4	L	670	U	P-O3'-C3'	-5.20	113.46	119.70
4	L	707	U	O3'-P-O5'	5.20	113.88	104.00
5	M	367	U	O3'-P-O5'	-5.20	94.13	104.00
4	L	413	U	O3'-P-O5'	5.19	113.87	104.00
1	I	11	A	OP1-P-O3'	5.19	116.62	105.20
4	L	592	U	OP2-P-O3'	5.19	116.62	105.20
6	N	506	U	OP2-P-O3'	-5.19	93.78	105.20
5	M	492	U	OP1-P-O3'	-5.19	93.78	105.20
5	M	304	U	P-O3'-C3'	5.19	125.93	119.70
5	M	420	U	OP1-P-O3'	-5.19	93.79	105.20
2	J	98	A	P-O3'-C3'	-5.19	113.48	119.70
1	I	130	A	OP2-P-O3'	-5.18	93.79	105.20
6	N	322	U	P-O3'-C3'	-5.18	113.48	119.70
6	N	438	U	OP2-P-O3'	5.18	116.60	105.20
2	J	245	A	OP1-P-O3'	-5.18	93.80	105.20
4	L	608	U	OP2-P-O3'	-5.18	93.81	105.20
4	L	728	U	OP1-P-O3'	5.18	116.59	105.20
6	N	364	U	OP1-P-O3'	-5.18	93.81	105.20
4	L	445	U	OP2-P-O3'	-5.18	93.81	105.20
2	J	135	A	OP2-P-O3'	-5.17	93.82	105.20
4	L	426	U	O3'-P-O5'	-5.17	94.17	104.00
2	J	150	A	P-O3'-C3'	-5.17	113.50	119.70
3	K	219	A	O3'-P-O5'	-5.17	94.19	104.00
4	L	602	U	O3'-P-O5'	-5.17	94.19	104.00
4	L	737	U	OP1-P-O3'	-5.17	93.84	105.20
1	I	246	A	OP2-P-O3'	5.16	116.56	105.20
1	I	393	A	P-O3'-C3'	-5.16	113.51	119.70
1	I	399	A	OP1-P-O3'	5.16	116.55	105.20
4	L	549	U	OP1-P-O3'	-5.16	93.86	105.20
3	K	221	A	OP2-P-O3'	-5.15	93.86	105.20
4	L	553	U	OP1-P-O3'	-5.15	93.86	105.20
1	I	357	A	OP1-P-O3'	-5.15	93.87	105.20
1	I	369	A	P-O3'-C3'	-5.15	113.52	119.70
4	L	416	U	O3'-P-O5'	-5.15	94.21	104.00
4	L	503	U	OP1-P-O3'	-5.15	93.86	105.20
5	M	550	U	P-O3'-C3'	-5.15	113.52	119.70
3	K	70	A	OP1-P-O3'	5.15	116.53	105.20
6	N	417	U	OP1-P-O3'	-5.15	93.88	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	158	A	OP2-P-O3'	-5.14	93.88	105.20
4	L	565	U	OP2-P-O3'	5.14	116.52	105.20
4	L	630	U	OP2-P-O3'	-5.14	93.88	105.20
6	N	328	U	OP2-P-O3'	5.14	116.52	105.20
4	L	729	U	P-O3'-C3'	5.14	125.87	119.70
2	J	117	A	P-O3'-C3'	5.14	125.87	119.70
1	I	402	A	OP1-P-O3'	5.14	116.50	105.20
3	K	262	A	O3'-P-O5'	5.14	113.76	104.00
1	I	73	A	OP1-P-O3'	-5.13	93.92	105.20
1	I	89	A	OP2-P-O3'	-5.13	93.92	105.20
4	L	435	U	P-O3'-C3'	-5.12	113.56	119.70
4	L	721	U	P-O3'-C3'	5.12	125.84	119.70
1	I	177	A	OP1-P-O3'	5.12	116.45	105.20
4	L	603	U	OP1-P-O3'	-5.12	93.95	105.20
4	L	629	U	OP2-P-O3'	5.12	116.46	105.20
1	I	172	A	P-O3'-C3'	-5.11	113.57	119.70
4	L	647	U	P-O3'-C3'	-5.11	113.57	119.70
5	M	432	U	O3'-P-O5'	5.11	113.70	104.00
4	L	676	U	OP1-P-O3'	-5.11	93.97	105.20
4	L	677	U	OP1-P-O3'	-5.10	93.97	105.20
4	L	502	U	O3'-P-O5'	5.10	113.69	104.00
1	I	281	A	OP1-P-O3'	5.09	116.41	105.20
1	I	355	A	OP1-P-O3'	-5.09	93.99	105.20
2	J	241	A	OP1-P-O3'	-5.09	93.99	105.20
4	L	580	U	OP2-P-O3'	-5.09	93.99	105.20
6	N	484	U	P-O3'-C3'	-5.09	113.59	119.70
2	J	177	A	P-O3'-C3'	-5.09	113.59	119.70
4	L	609	U	P-O3'-C3'	-5.09	113.59	119.70
4	L	731	U	O3'-P-O5'	-5.09	94.33	104.00
6	N	275	U	P-O3'-C3'	-5.09	113.59	119.70
1	I	61	A	OP1-P-O3'	5.09	116.39	105.20
2	J	179	A	OP2-P-O3'	-5.09	94.01	105.20
6	N	383	U	O3'-P-O5'	-5.09	94.33	104.00
1	I	287	A	OP1-P-O3'	-5.08	94.02	105.20
4	L	616	U	O3'-P-O5'	5.08	113.66	104.00
1	I	77	A	OP1-P-O3'	-5.08	94.02	105.20
3	K	43	A	P-O3'-C3'	-5.08	113.60	119.70
5	M	451	U	O3'-P-O5'	-5.08	94.35	104.00
1	I	1	A	P-O3'-C3'	5.08	125.79	119.70
6	N	371	U	OP1-P-O3'	-5.07	94.04	105.20
2	J	174	A	O3'-P-O5'	5.07	113.64	104.00
1	I	14	A	OP1-P-O3'	-5.07	94.05	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	597	U	OP1-P-O3'	-5.07	94.05	105.20
2	J	98	A	OP2-P-O3'	5.06	116.34	105.20
1	I	89	A	OP1-P-O3'	5.06	116.34	105.20
1	I	406	A	OP2-P-O3'	5.06	116.34	105.20
2	J	101	A	OP2-P-O3'	5.06	116.33	105.20
1	I	180	A	OP2-P-O3'	5.06	116.32	105.20
5	M	387	U	P-O3'-C3'	5.06	125.77	119.70
1	I	106	A	OP1-P-O3'	5.05	116.32	105.20
4	L	636	U	O3'-P-O5'	-5.05	94.39	104.00
4	L	752	U	O3'-P-O5'	5.05	113.61	104.00
4	L	791	U	O3'-P-O5'	5.05	113.60	104.00
3	K	14	A	O3'-P-O5'	-5.05	94.40	104.00
6	N	273	U	OP2-P-O3'	5.05	116.32	105.20
4	L	801	U	OP2-P-O3'	5.05	116.30	105.20
5	M	468	U	P-O3'-C3'	-5.05	113.64	119.70
3	K	125	A	OP2-P-O3'	5.04	116.30	105.20
4	L	659	U	O3'-P-O5'	-5.04	94.42	104.00
5	M	391	U	P-O3'-C3'	-5.04	113.65	119.70
1	I	63	A	OP1-P-O3'	5.04	116.28	105.20
1	I	64	A	OP1-P-O3'	-5.04	94.12	105.20
2	J	106	A	OP1-P-O3'	-5.04	94.12	105.20
1	I	108	A	O3'-P-O5'	-5.04	94.43	104.00
4	L	657	U	OP1-P-O3'	-5.04	94.12	105.20
5	M	438	U	O3'-P-O5'	-5.03	94.44	104.00
6	N	437	U	O3'-P-O5'	-5.03	94.44	104.00
2	J	242	A	P-O3'-C3'	5.03	125.73	119.70
3	K	224	A	P-O3'-C3'	5.03	125.73	119.70
6	N	377	U	O3'-P-O5'	5.02	113.54	104.00
4	L	537	U	P-O3'-C3'	-5.02	113.67	119.70
6	N	525	U	OP2-P-O3'	5.02	116.25	105.20
5	M	434	U	O3'-P-O5'	-5.02	94.47	104.00
6	N	500	U	OP1-P-O3'	5.02	116.24	105.20
4	L	589	U	OP2-P-O3'	5.02	116.24	105.20
5	M	340	U	OP1-P-O3'	-5.02	94.16	105.20
5	M	341	U	P-O3'-C3'	-5.02	113.68	119.70
3	K	106	A	OP1-P-O3'	5.01	116.23	105.20
4	L	448	U	OP1-P-O3'	5.01	116.23	105.20
1	I	131	A	OP2-P-O3'	5.01	116.22	105.20
5	M	516	U	P-O3'-C3'	-5.01	113.69	119.70
1	I	92	A	O3'-P-O5'	5.01	113.52	104.00
3	K	35	A	OP1-P-O3'	5.01	116.22	105.20
4	L	775	U	O3'-P-O5'	5.01	113.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	466	U	P-O3'-C3'	5.01	125.71	119.70
4	L	659	U	OP1-P-O3'	5.00	116.21	105.20
6	N	520	U	P-O3'-C3'	5.00	125.70	119.70
4	L	631	U	P-O3'-C3'	-5.00	113.70	119.70
4	L	754	U	OP1-P-O3'	-5.00	94.20	105.20
5	M	313	U	OP2-P-O3'	-5.00	94.19	105.20

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	I	9061	0	4518	4048	715
2	J	6069	0	3032	2588	1135
3	K	5827	0	2926	1867	622
4	L	8237	0	4114	3497	802
5	M	5517	0	2762	2244	1030
6	N	5297	0	2665	1656	473
All	All	40008	0	20017	15801	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 263.

All (15801) 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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:531:U:C2'	5:M:532:U:H5'	1.44	1.47
1:I:267:A:C2	1:I:268:A:C5	2.00	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
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
5:M:428:U:O2'	5:M:429:U:C5'	1.68	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
1:I:376:A:N6	1:I:377:A:N6	1.69	1.39
3:K:152:A:N6	3:K:153:A:N6	1.66	1.39
6:N:420:U:O2'	6:N:421:U:C5'	1.68	1.39
1:I:65:A:C2'	1:I:66:A:H5'	1.11	1.39
4:L:576:U:C2'	4:L:577:U:H5'	1.50	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
6:N:426:U:O2'	6:N:427:U:C5'	1.68	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:347:U:O2'	5:M:348:U:C5'	1.69	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
4:L:518:U:O2'	4:L:519:U:C5'	1.67	1.38
3:K:168:A:C2'	3:K:169:A:C5'	2.00	1.38
3:K:119:A:C2'	3:K:120:A:C5'	1.92	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
5:M:323:U:O2'	5:M:324:U:C5'	1.67	1.38
1:I:62:A:O2'	1:I:63:A:C5'	1.68	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:136:A:C2	2:J:137:A:C4	2.12	1.36
2:J:56:A:C2'	2:J:57:A:H5'	1.48	1.36
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
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
1:I:138:A:C2'	1:I:139:A:H5'	1.54	1.36
2:J:26:A:O2'	2:J:27:A:H5'	1.19	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
1:I:132:A:C2'	1:I:133:A:H5'	1.55	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
5:M:458:U:C2'	5:M:459:U:H5'	1.43	1.35
3:K:165:A:C2'	3:K:166:A:H5'	1.44	1.35
4:L:779:U:O2'	4:L:780:U:H5'	1.23	1.35
4:L:739:U:O2'	4:L:740:U:C5'	1.72	1.35
4:L:460:U:O2'	4:L:461:U:H5'	1.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:183:A:H2'	2:J:184:A:C5'	1.51	1.34
2:J:29:A:C2'	2:J:30:A:H5'	1.26	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
5:M:405:U:C2'	5:M:406:U:H5'	1.58	1.34
4:L:749:U:O2'	4:L:750:U:H5'	1.18	1.34
4:L:622:U:O2'	4:L:623:U:C5'	1.75	1.34
6:N:274:U:O2'	6:N:275:U:H5'	1.23	1.34
5:M:405:U:O2'	5:M:406:U:C5'	1.73	1.34
4:L:652:U:O2'	4:L:653:U:H5'	1.21	1.34
2:J:145:A:C5	2:J:146:A:N7	1.96	1.33
4:L:576:U:O2'	4:L:577:U:C5'	1.77	1.33
2:J:249:A:O2'	2:J:250:A:H5'	1.23	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
1:I:86:A:N6	1:I:87:A:N6	1.74	1.33
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
6:N:485:U:O3'	6:N:486:U:C5'	1.75	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
2:J:184:A:O2'	2:J:185:A:H5'	1.24	1.33
4:L:765:U:C2'	4:L:766:U:H5'	1.38	1.33
1:I:85:A:O2'	1:I:86:A:C5'	1.77	1.33
4:L:661:U:O2'	4:L:662:U:H5'	1.23	1.33
1:I:353:A:C2'	1:I:354:A:H5'	1.58	1.33
5:M:392:U:O2'	5:M:393:U:H5'	1.27	1.32
3:K:99:A:C2'	3:K:100:A:H5'	1.40	1.32
5:M:458:U:C2'	5:M:459:U:C5'	2.06	1.32
4:L:722:U:H2'	4:L:723:U:C5	1.64	1.32
5:M:455:U:O2'	5:M:456:U:H5'	1.27	1.32
1:I:55:A:O2'	1:I:56:A:H5'	1.19	1.32
2:J:205:A:O2'	2:J:206:A:C5'	1.76	1.32
1:I:254:A:O2'	1:I:255:A:H5'	1.29	1.32
5:M:336:U:H2'	5:M:337:U:O4'	1.20	1.32
3:K:130:A:O2'	3:K:131:A:H5'	1.28	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
4:L:768:U:O2'	4:L:769:U:C5'	1.77	1.32
4:L:622:U:C2'	4:L:623:U:H5'	1.60	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
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
1:I:134:A:C2	1:I:135:A:N7	1.98	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
4:L:477:U:C2'	4:L:478:U:C5'	2.07	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
3:K:95:A:O2'	3:K:96:A:H5'	1.28	1.31
1:I:267:A:N3	1:I:268:A:N7	1.79	1.31
4:L:765:U:O2'	4:L:766:U:H5'	1.25	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
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
5:M:435:U:O2'	5:M:436:U:C5'	1.77	1.30
4:L:488:U:O2'	4:L:489:U:H5'	1.30	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
2:J:205:A:C2'	2:J:206:A:H5'	1.33	1.30
1:I:33:A:O2'	1:I:34:A:H5'	1.18	1.30
2:J:124:A:O2'	2:J:125:A:C5'	1.80	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
2:J:222:A:O2'	2:J:223:A:H5'	1.12	1.30
3:K:136:A:O2'	3:K:137:A:C5'	1.79	1.30
3:K:118:A:C2'	3:K:119:A:H5'	1.39	1.30
1:I:163:A:O2'	1:I:164:A:C5'	1.80	1.30
5:M:347:U:C2'	5:M:348:U:C5'	2.08	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:N:440:U:O2'	6:N:441:U:H5'	1.12	1.30
1:I:65:A:O2'	1:I:66:A:C5'	1.73	1.30
4:L:722:U:H2'	4:L:723:U:C6	1.65	1.30
4:L:588:U:O2'	4:L:589:U:H5'	1.13	1.30
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
1:I:136:A:C2'	1:I:137:A:C5'	2.09	1.29
4:L:540:U:O2'	4:L:541:U:H5'	1.31	1.29
1:I:202:A:O2'	1:I:203:A:C5'	1.79	1.29
2:J:47:A:O2'	2:J:48:A:C5'	1.79	1.29
6:N:412:U:O2'	6:N:413:U: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:423:U:O2'	6:N:424:U:H5'	1.23	1.29
1:I:12:A:O2'	1:I:13:A:H5'	1.32	1.29
1:I:178:A:O2'	1:I:179:A:H5'	1.26	1.29
4:L:724:U:C2'	4:L:725:U:H5'	1.63	1.29
1:I:267:A:N3	1:I:268:A:C8	2.00	1.29
6:N:431:U:O2'	6:N:432:U:C5'	1.81	1.29
4:L:566:U:O2'	4:L:567:U:H5'	1.13	1.29
4:L:438:U:C4	4:L:439:U:O4	1.85	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
4:L:634:U:O2'	4:L:635:U:H5'	1.16	1.29
2:J:117:A:C2	2:J:118:A:C4	2.21	1.28
2:J:11:A:C2'	2:J:12:A:H5'	1.63	1.28
5:M:318:U:O2'	5:M:319:U:H5'	1.20	1.28
1:I:347:A:O2'	1:I:348:A:H5'	1.19	1.28
4:L:736:U:O2'	4:L:737:U:H5'	1.17	1.28
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
2:J:83:A:C2	2:J:84:A:C5	2.21	1.28
3:K:165:A:C2'	3:K:166:A:C5'	2.11	1.28
4:L:815:U:O2'	4:L:816:U:H5'	1.24	1.28
3:K:253:A:C2'	3:K:254:A:C5'	2.10	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:134:A:C2	1:I:135:A:C5	2.21	1.28
4:L:723:U:H2'	4:L:724:U:O4'	1.24	1.28
4:L:463:U:O2'	4:L:464:U:H5'	1.24	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
5:M:525:U:O2'	5:M:526: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
2:J:221:A:O2'	2:J:222:A:H5'	1.18	1.28
1:I:87:A:O2'	1:I:88:A:H5'	1.11	1.28
4:L:775:U:O2'	4:L:776:U:H5'	1.13	1.28
1:I:101:A:N1	1:I:102:A:N6	1.80	1.28
6:N:449:U:O2'	6:N:450:U:H5'	1.25	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
1:I:109:A:C2	1:I:110:A:C4	2.22	1.28
5:M:539:U:O2'	5:M:540:U:H5'	1.17	1.27
3:K:168:A:O2'	3:K:169:A:H5'	1.18	1.27
3:K:118:A:C2'	3:K:119:A:C5'	2.03	1.27
6:N:424:U:H2'	6:N:425:U:C6	1.68	1.27
1:I:270:A:C2'	1:I:271:A:H5'	1.63	1.27
2:J:43:A:C2'	2:J:44:A:C5'	2.11	1.27
5:M:501:U:H2'	5:M:502:U:C6	1.67	1.27
3:K:100:A:O2'	3:K:101:A:H5'	1.31	1.27
1:I:284:A:O2'	1:I:285:A:C5'	1.81	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
4:L:487:U:O2'	4:L:488:U:C5'	1.82	1.27
3:K:99:A:O2'	3:K:100:A:C5'	1.82	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
2:J:130:A:O2'	2:J:131:A:H5'	1.30	1.27
5:M:369:U:O2'	5:M:370:U:H5'	1.33	1.27
4:L:498:U:O2'	4:L:499:U:H5'	1.29	1.27
1:I:73:A:C2'	1:I:74:A:O4'	1.81	1.27
2:J:92:A:N3	2:J:93:A:N7	1.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:277:A:N6	1:I:278:A:N6	1.80	1.27
6:N:492:U:O2'	6:N:493:U:H5'	1.28	1.27
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
5:M:318:U:C2'	5:M:319:U:H5'	1.65	1.26
3:K:64:A:O2'	3:K:65:A:H5'	1.24	1.26
6:N:426:U:C2'	6:N:427:U:C5'	2.06	1.26
1:I:74:A:H2'	1:I:75:A:O4'	1.23	1.26
4:L:794:U:O2'	4:L:795:U:H5'	1.15	1.26
4:L:755:U:O2'	4:L:756:U:H5'	1.20	1.26
6:N:280:U:O2'	6:N:281:U:H5'	1.34	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
4:L:691:U:O2'	4:L:692:U:H5'	1.30	1.26
2:J:204:A:N6	2:J:205:A:N6	1.81	1.26
1:I:229:A:O2'	1:I:230:A:H5'	1.32	1.26
2:J:58:A:O2'	2:J:59:A:H5'	1.12	1.26
5:M:396:U:O2'	5:M:397:U:H5'	1.25	1.26
4:L:501:U:O2'	4:L:502:U:H5'	1.29	1.26
3:K:65:A:N6	3:K:66:A:N6	1.83	1.26
1:I:252:A:O2'	1:I:253:A:H5'	1.13	1.26
1:I:262:A:O2'	1:I:263:A:H5'	1.26	1.26
5:M:486:U:O2'	5:M:487:U:H5'	1.29	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
2:J:37:A:O2'	2:J:38:A:H5'	1.25	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
6:N:485:U:O3'	6:N:486:U:H5'	1.21	1.26
6:N:320:U:O2'	6:N:321:U:H5'	1.25	1.26
5:M:482:U:O2'	5:M:483: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
2:J:69:A:C2'	2:J:70:A:C5'	2.12	1.26
1:I:184:A:N6	1:I:185:A:N6	1.84	1.26
6:N:485:U:H2'	6:N:486:U:O4'	1.35	1.26
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
1:I:91:A:C2'	1:I:92:A:H5'	1.64	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:260:A:O2'	1:I:261:A:H5'	1.33	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:692:U:O2'	4:L:693:U:H5'	1.11	1.25
1:I:283:A:C2	1:I:284:A:C5	2.24	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
2:J:120:A:O2'	2:J:121:A:H5'	1.29	1.25
2:J:70:A:C2'	2:J:71:A:C5'	2.09	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
5:M:464:U:O2'	5:M:465:U:H5'	1.10	1.25
5:M:331:U:O2'	5:M:332:U:H5'	1.15	1.25
6:N:411:U:O2'	6:N:412:U:H5'	1.34	1.25
4:L:814:U:O2'	4:L:815:U:H5'	1.15	1.25
1:I:74:A:O2'	1:I:75:A:H5'	1.35	1.25
2:J:206:A:O2'	2:J:207:A:C5'	1.83	1.25
4:L:603:U:O2'	4:L:604:U:H5'	1.34	1.25
1:I:361:A:O2'	1:I:362:A:H5'	1.18	1.25
5:M:419:U:O2'	5:M:420:U:C5'	1.84	1.25
2:J:101:A:N6	2:J:102:A:N6	1.84	1.25
5:M:323:U:H2'	5:M:324:U:O4'	1.31	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
2:J:211:A:O2'	2:J:212:A:H5'	1.23	1.25
1:I:274:A:O2'	1:I:275:A:C5'	1.84	1.25
6:N:338:U:H2'	6:N:339:U:C6	1.72	1.25
2:J:176:A:O2'	2:J:177:A:H5'	1.31	1.25
5:M:469:U:C2	5:M:470:U:C5	2.23	1.25
2:J:222:A:C2'	2:J:223:A:C5'	2.12	1.25
4:L:484:U:O2'	4:L:485:U:H5'	1.30	1.25
6:N:440:U:C2'	6:N:441:U:C5'	2.14	1.25
6:N:374:U:O2'	6:N:375:U:H5'	1.35	1.25
1:I:25:A:O2'	1:I:26:A:H5'	1.15	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
1:I:243:A:N6	1:I:244:A:N6	1.85	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:269:A:O2'	1:I:270:A:H5'	1.31	1.25
3:K:203:A:C2	3:K:204:A:C5	2.25	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
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
2:J:70:A:O2'	2:J:71:A:C5'	1.83	1.24
5:M:491:U:O2'	5:M:492:U:H5'	1.35	1.24
4:L:525:U:O2'	4:L:526:U:H5'	1.33	1.24
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
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
1:I:175:A:C2	1:I:176:A:C5	2.24	1.24
4:L:698:U:O2'	4:L:699:U:H5'	1.13	1.24
1:I:133:A:O2'	1:I:134:A:C5'	1.80	1.24
4:L:682:U:O2'	4:L:683:U:H5'	1.07	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:127:A:O2'	2:J:128:A:C5'	1.86	1.24
5:M:485:U:C2'	5:M:486:U:H5'	1.65	1.24
4:L:811:U:H2'	4:L:812:U:O4'	1.32	1.24
6:N:311:U:H2'	6:N:312:U:O4'	1.33	1.24
2:J:192:A:O2'	2:J:193:A:H5'	1.33	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
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
4:L:500:U:O2'	4:L:501:U:H5'	1.10	1.24
1:I:82:A:H2'	1:I:83:A:O4'	1.30	1.24
4:L:704:U:O2'	4:L:705:U:H5'	1.29	1.24
1:I:207:A:O2'	1:I:208:A:H5'	1.27	1.24
4:L:567:U:O2'	4:L:568:U:H5'	1.12	1.24
2:J:233:A:O2'	2:J:234:A:H5'	1.34	1.24
2:J:66:A:O2'	2:J:67:A:H5'	1.34	1.24
5:M:419:U:C2'	5:M:420:U:C5'	2.14	1.24
4:L:507:U:O2'	4:L:508:U:C5'	1.85	1.24
1:I:17:A:O2'	1:I:18:A:C5'	1.86	1.24
6:N:277:U:O2'	6:N:278:U:H5'	1.09	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:572:U:O2'	4:L:573:U:C5'	1.86	1.24
2:J:248:A:N6	2:J:249:A:N6	1.82	1.24
1:I:30:A:O2'	1:I:31:A:H5'	1.36	1.24
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
4:L:477:U:O2'	4:L:478:U:C5'	1.86	1.23
3:K:104:A:O2'	3:K:105:A:C5'	1.85	1.23
6:N:454:U:O2'	6:N:455:U:H5'	1.37	1.23
1:I:103:A:O2'	1:I:104:A:H5'	1.30	1.23
4:L:649:U:O2'	4:L:650:U:H5'	1.36	1.23
1:I:135:A:O2'	1:I:136:A:H5'	1.28	1.23
5:M:382:U:O2'	5:M:383:U:H5'	1.07	1.23
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
3:K:124:A:C2	3:K:125:A:C5	2.25	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
4:L:597:U:O2'	4:L:598:U:H5'	1.30	1.23
6:N:346:U:O3'	6:N:347:U:P	1.96	1.23
5:M:405:U:C2'	5:M:406:U:C5'	2.14	1.23
5:M:387:U:C2	5:M:388:U:C5	2.25	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: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
1:I:97:A:O2'	1:I:98:A:H5'	1.16	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
4:L:554:U:C2	4:L:555:U:C5	2.27	1.23
4:L:510:U:O2'	4:L:511:U:H5'	1.32	1.23
3:K:166:A:O2'	3:K:167:A:H5'	1.06	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:100:A:C2'	3:K:101:A:C5'	2.15	1.22
4:L:743:U:O2'	4:L:744:U:C5'	1.84	1.22
2:J:206:A:C2'	2:J:207:A:C5'	2.15	1.22
5:M:346:U:O2'	5:M:347:U:H5'	1.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:288:U:O3'	6:N:289:U:P	1.98	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
2:J:43:A:O2'	2:J:44:A:H5'	1.31	1.22
2:J:219:A:O2'	2:J:220:A:H5'	1.09	1.22
2:J:214:A:O2'	2:J:215:A:H5'	1.08	1.22
3:K:89:A:O2'	3:K:90:A:P	1.96	1.22
6:N:387:U:O3'	6:N:388:U:P	1.97	1.22
1:I:174:A:O2'	1:I:175:A:H5'	1.32	1.22
1:I:270:A:C2'	1:I:271:A:C5'	2.18	1.22
1:I:257:A:O2'	1:I:258:A:H5'	1.08	1.22
1:I:385:A:O3'	1:I:386:A:P	1.97	1.22
3:K:15:A:O3'	3:K:16:A:P	1.97	1.22
5:M:428:U:C2'	5:M:429:U:H5'	1.69	1.22
5:M:335:U:C4	5:M:336:U:C4	2.28	1.22
4:L:487:U:C2'	4:L:488:U:C5'	2.15	1.22
3:K:112:A:N6	3:K:113:A:N6	1.86	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
1:I:132:A:O2'	1:I:133:A:H5'	1.10	1.22
4:L:694:U:C2'	4:L:695:U:H5'	1.52	1.22
1:I:106:A:N3	1:I:107:A:C8	2.06	1.22
6:N:484:U:O3'	6:N:485:U:H5'	1.36	1.22
2:J:265:A:O2'	2:J:266:A:C5'	1.87	1.22
6:N:303:U:O3'	6:N:304:U:P	1.96	1.22
2:J:100:A:O2'	2:J:101:A:H5'	1.09	1.22
5:M:336:U:C2'	5:M:337:U:C5'	2.16	1.22
1:I:56:A:O2'	1:I:57:A:C5'	1.86	1.22
4:L:646:U:O2'	4:L:647:U:H5'	1.38	1.22
1:I:232:A:O2'	1:I:233:A:H5'	1.38	1.22
1:I:353:A:O2'	1:I:354:A:H5'	1.08	1.22
3:K:208:A:O3'	3:K:209:A:P	1.98	1.22
3:K:31:A:N6	3:K:32:A:N6	1.85	1.22
1:I:291:A:O2'	1:I:292:A:H5'	1.38	1.22
2:J:88:A:O2'	2:J:89:A:C5'	1.87	1.22
6:N:394:U:O2'	6:N:395:U:C5'	1.85	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
3:K:19:A:O3'	3:K:20:A:P	1.97	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:322:U:C2'	5:M:323:U:H5'	1.69	1.21
4:L:746:U:O2	4:L:747:U:C6	1.92	1.21
4:L:717:U:C4	4:L:718:U:O4	1.92	1.21
4:L:578:U:O2'	4:L:579:U:H5'	1.36	1.21
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
2:J:56:A:O2'	2:J:57:A:C5'	1.88	1.21
1:I:306:A:O2'	1:I:307:A:C5'	1.88	1.21
6:N:427:U:O2'	6:N:428:U:H5'	1.38	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
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
5:M:510:U:H2'	5:M:511:U:H6	1.06	1.21
2:J:133:A:O2'	2:J:134:A:C5'	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
4:L:713:U:C2'	4:L:714:U:O4'	1.87	1.21
1:I:122:A:O2'	1:I:123:A:H5'	1.08	1.21
4:L:702:U:O2'	4:L:703:U:H5'	1.38	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
4:L:757:U:C2	4:L:758:U:C5	2.29	1.21
4:L:688:U:O2'	4:L:689:U:C5'	1.88	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
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
5:M:530:U:C2'	5:M:531:U:H5'	1.52	1.21
5:M:333:U:C2'	5:M:334:U:H5'	1.64	1.21
1:I:337:A:O2'	1:I:338:A:C5'	1.87	1.21
4:L:682:U:O2'	4:L:683:U:C5'	1.89	1.21
4:L:612:U:O2'	4:L:613:U:H5'	1.37	1.21
5:M:399:U:O2'	5:M:400:U:H5'	1.39	1.20
1:I:314:A:O2'	1:I:315:A:H5'	1.40	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
4:L:445:U:O3'	4:L:446:U:P	1.98	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:21:A:O2'	2:J:22:A:H5'	1.36	1.20
4:L:533:U:O2'	4:L:534:U:H5'	1.41	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
4:L:554:U:O2	4:L:555:U:C5	1.93	1.20
3:K:244:A:O3'	3:K:245:A:P	1.98	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
4:L:767:U:C2	4:L:768:U:C5	2.28	1.20
1:I:75:A:C2'	1:I:76:A:H5'	1.71	1.20
4:L:762:U:O2'	4:L:763:U:H5'	1.05	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:250:A:N6	1:I:251:A:N6	1.90	1.20
1:I:202:A:C2'	1:I:203:A:H5'	1.71	1.20
3:K:178:A:O3'	3:K:179:A:P	2.00	1.20
2:J:270:A:O3'	2:J:271:A:P	1.98	1.20
5:M:505:U:O2'	5:M:506:U:C5'	1.87	1.20
3:K:125:A:O2'	3:K:126:A:H5'	1.05	1.20
4:L:694:U:C2'	4:L:695:U:C5'	2.17	1.20
4:L:642:U:O2'	4:L:643:U:H5'	1.42	1.20
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
2:J:103:A:O2'	2:J:104:A:C5'	1.90	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:73:A:O2'	1:I:74:A:C5'	1.88	1.20
4:L:677:U:O3'	4:L:678:U:P	1.98	1.20
1:I:372:A:O2'	1:I:373:A:H5'	1.40	1.20
3:K:46:A:O3'	3:K:47:A:P	2.00	1.20
2:J:56:A:C2'	2:J:57:A:C5'	2.14	1.19
5:M:530:U:O2'	5:M:531:U:H5'	1.39	1.19
4:L:518:U:C2'	4:L:519:U:H5'	1.70	1.19
3:K:104:A:O2'	3:K:105:A:H5'	1.04	1.19
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:271:A:O3'	2:J:272:A:P	1.98	1.19
2:J:254:A:O2'	2:J:255:A:H5'	1.41	1.19
2:J:72:A:O2'	2:J:73:A:H5'	1.37	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:368:U:C2'	5:M:369:U:C5'	2.21	1.19
4:L:506:U:O2'	4:L:507:U:H5'	1.42	1.19
1:I:22:A:O2'	1:I:23:A:H5'	1.42	1.19
4:L:585:U:O2'	4:L:586:U:C5'	1.90	1.19
4:L:536:U:O3'	4:L:537:U:P	2.00	1.19
5:M:536:U:O2'	5:M:537:U:H5'	1.42	1.19
5:M:308:U:O3'	5:M:309:U:P	2.01	1.19
6:N:425:U:C2'	6:N:426:U:O4'	1.90	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
4:L:466:U:O2'	4:L:467:U:H5'	1.05	1.19
2:J:229:A:O2'	2:J:230:A:C5'	1.90	1.19
5:M:373:U:O2'	5:M:374:U:H5'	1.43	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
1:I:271:A:C2	1:I:272:A:C5	2.31	1.19
6:N:497:U:O2'	6:N:498:U:H5'	1.43	1.19
3:K:23:A:O3'	3:K:24:A:P	2.00	1.19
5:M:530:U:C2'	5:M:531:U:C5'	2.20	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
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
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
1:I:145:A:O3'	1:I:146:A:P	2.01	1.19
4:L:587:U:O2'	4:L:588:U:H5'	1.42	1.19
1:I:273:A:C2'	1:I:274:A:H5'	1.71	1.19
4:L:563:U:H2'	4:L:564:U:C6	1.77	1.19
6:N:305:U:H2'	6:N:306:U:C6	1.77	1.19
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
5:M:336:U:C2'	5:M:337:U:H5'	1.57	1.18
1:I:73:A:H2'	1:I:74:A:O4'	1.34	1.18
4:L:757:U:H2'	4:L:758:U:C6	1.77	1.18
1:I:133:A:O2'	1:I:134:A:H5'	1.04	1.18
4:L:686:U:O2'	4:L:687:U:H5'	1.40	1.18
2:J:202:A:O2'	2:J:203:A:C5'	1.90	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:458:U:O2'	5:M:459:U:H5'	1.01	1.18
5:M:338:U:O2'	5:M:339:U:H5'	1.42	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
3:K:136:A:C2'	3:K:137:A:H5'	1.72	1.18
3:K:54:A:O3'	3:K:55:A:P	2.00	1.18
1:I:68:A:C2'	1:I:69:A:H5'	1.73	1.18
4:L:776:U:O2'	4:L:777:U:H5'	1.42	1.18
3:K:260:A:O3'	3:K:261:A:P	2.01	1.18
4:L:676:U:O3'	4:L:677:U:P	2.00	1.18
1:I:190:A:O2'	1:I:191:A:H5'	1.38	1.18
5:M:348:U:H2'	5:M:349:U:C6	1.78	1.18
2:J:241:A:O3'	2:J:242:A:P	2.02	1.18
3:K:243:A:O3'	3:K:244:A:P	2.01	1.18
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
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
4:L:564:U:O2'	4:L:565:U:H5'	1.42	1.18
6:N:497:U:C2'	6:N:498:U:C5'	2.19	1.18
6:N:271:U:O3'	6:N:272:U:P	2.02	1.18
4:L:448:U:C2	4:L:449:U:C5	2.32	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
2:J:75:A:O2'	2:J:76:A:H5'	1.44	1.18
5:M:333:U:O2'	5:M:334:U:H5'	1.03	1.18
1:I:341:A:O2'	1:I:342:A:H5'	1.40	1.18
4:L:532:U:C2'	4:L:533:U:H5'	1.68	1.18
1:I:75:A:O2'	1:I:76:A:C5'	1.92	1.18
4:L:803:U:H2'	4:L:804:U:C6	1.77	1.18
4:L:750:U:C2	4:L:751:U:C5	2.32	1.18
3:K:251:A:O3'	3:K:252:A:P	2.02	1.18
1:I:272:A:N6	1:I:273:A:N6	1.89	1.18
4:L:585:U:O2'	4:L:586:U:H5'	1.01	1.18
2:J:13:A:O2'	2:J:14:A:H5'	1.39	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
3:K:249:A:O2'	3:K:250:A:H5'	1.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:325:U:O3'	6:N:326:U:P	2.01	1.18
5:M:464:U:O2'	5:M:465:U: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
1:I:239:A:O2'	1:I:240:A:C5'	1.91	1.17
6:N:485:U:O3'	6:N:486:U:P	2.00	1.17
2:J:54:A:O2'	2:J:55:A:H5'	1.43	1.17
5:M:466:U:C2'	5:M:467:U:H5'	1.65	1.17
5:M:336:U:C4	5:M:337:U:C5	2.33	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
1:I:42:A:O2'	1:I:43:A:H5'	1.44	1.17
4:L:658:U:O2'	4:L:659:U:H5'	1.41	1.17
5:M:337:U:O2'	5:M:338:U:H5'	1.01	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
4:L:814:U:C2'	4:L:815:U:C5'	2.23	1.17
4:L:674:U:C2'	4:L:675:U:C5'	2.22	1.17
5:M:348:U:C2	5:M:349:U:C5	2.33	1.17
1:I:373:A:N6	1:I:374:A:N6	1.90	1.17
4:L:439:U:O3'	4:L:440:U:P	2.03	1.17
5:M:435:U:O2'	5:M:436:U:H5'	1.36	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
3:K:156:A:H2'	3:K:157:A:O4'	1.45	1.17
1:I:74:A:C2'	1:I:75:A:C5'	2.19	1.17
4:L:802:U:O2'	4:L:803:U:H5'	1.45	1.17
4:L:705:U:C2'	4:L:706:U:H5'	1.74	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:210:A:O2'	3:K:211:A:H5'	1.40	1.17
1:I:335:A:N6	1:I:336:A:N6	1.92	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
1:I:40:A:O3'	1:I:41:A:P	2.03	1.17
4:L:767:U:H2'	4:L:768:U:C6	1.80	1.17
1:I:186:A:N3	1:I:187:A:C8	2.13	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
6:N:484:U:O3'	6:N:485:U:C5'	1.93	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:42:A:O2'	3:K:43:A:H5'	1.39	1.17
5:M:314:U:O3'	5:M:315:U:P	2.03	1.16
3:K:137:A:O2'	3:K:138:A:H5'	1.46	1.16
3:K:54:A:O3'	3:K:55:A:OP2	1.61	1.16
1:I:284:A:C2'	1:I:285:A:H5'	1.74	1.16
3:K:212:A:N6	3:K:213:A:N6	1.92	1.16
6:N:289:U:O3'	6:N:290:U:P	2.03	1.16
2:J:173:A:H2'	2:J:174:A:C8	1.80	1.16
3:K:154:A:H2'	3:K:155:A:O4'	1.43	1.16
3:K:89:A:C2	3:K:90:A:C5	2.33	1.16
6:N:279:U:H3'	6:N:280:U:P	1.83	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
4:L:673:U:C2'	4:L:674:U:H5'	1.76	1.16
4:L:440:U:O3'	4:L:441:U:P	2.04	1.16
3:K:45:A:O3'	3:K:46:A:P	2.03	1.16
3:K:192:A:H2'	3:K:193:A:C8	1.80	1.16
2:J:103:A:O2'	2:J:104:A:H5'	0.99	1.16
2:J:29:A:H2'	2:J:30:A:C5'	1.62	1.16
5:M:514:U:O2'	5:M:515:U:H5'	1.43	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
1:I:73:A:O2'	1:I:74:A:C4'	1.92	1.16
6:N:277:U:C2'	6:N:278:U:H5'	1.74	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: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
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
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
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
6:N:327:U:H2'	6:N:328:U:O4'	1.40	1.16
3:K:184:A:O3'	3:K:185:A:P	2.03	1.16
2:J:47:A:H2'	2:J:48:A:C5'	1.68	1.16
2:J:11:A:C2'	2:J:12:A:C5'	2.24	1.16
2:J:83:A:C2	2:J:84:A:C4	2.33	1.16
6:N:455:U:O3'	6:N:456:U:P	2.04	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:585:U:C2'	4:L:586:U:H5'	1.75	1.16
2:J:156:A:O2'	2:J:157:A:H5'	1.39	1.16
3:K:243:A:HO3'	3:K:244:A:P	1.68	1.16
4:L:811:U:C2'	4:L:812:U:O4'	1.92	1.15
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
2:J:81:A:O2'	2:J:82:A:H5'	1.44	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:95:A:C6	1:I:96:A:N6	2.13	1.15
4:L:549:U:O2'	4:L:550:U:H5'	1.43	1.15
1:I:296:A:O2'	1:I:297:A:H5'	1.43	1.15
3:K:33:A:O3'	3:K:34:A:P	2.03	1.15
5:M:419:U:O2'	5:M:420:U:H5'	0.99	1.15
1:I:269:A:C2'	1:I:270:A:H5'	1.66	1.15
4:L:549:U:H2'	4:L:550:U:O4'	1.43	1.15
6:N:484:U:H2'	6:N:485:U:O4'	1.46	1.15
6:N:341:U:O3'	6:N:342:U:P	2.03	1.15
6:N:299:U:O3'	6:N:300:U:P	2.05	1.15
4:L:446:U:O3'	4:L:447:U:P	2.04	1.15
5:M:489:U:C2'	5:M:490:U:H5'	1.72	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
1:I:147:A:C2'	1:I:148:A:H5'	1.75	1.15
2:J:202:A:O2'	2:J:203:A:H5'	0.99	1.15
1:I:255:A:C2'	1:I:256:A:H5'	1.75	1.15
6:N:518:U:O3'	6:N:519:U:P	2.03	1.15
2:J:62:A:O2'	2:J:63:A:H5'	1.47	1.15
4:L:807:U:H2'	4:L:808:U:C5'	1.70	1.15
1:I:140:A:C6	1:I:141:A:N6	2.14	1.15
1:I:101:A:C2	1:I:102:A:C6	2.35	1.15
3:K:241:A:O3'	3:K:242:A:P	2.05	1.15
2:J:29:A:O2'	2:J:30:A:H5'	0.97	1.14
4:L:661:U:O2'	4:L:662:U:C5'	1.93	1.14
1:I:106:A:O2'	1:I:107:A:P	2.04	1.14
5:M:346:U:O2'	5:M:347:U:C5'	1.95	1.14
1:I:279:A:C2'	1:I:280:A:H5'	1.76	1.14
4:L:572:U:O2'	4:L:573:U:H5'	0.99	1.14
2:J:236:A:C2	2:J:237:A:N7	2.15	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:520:U:O3'	6:N:521:U:P	2.05	1.14
6:N:279:U:C3'	6:N:280:U:P	2.35	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
5:M:405:U:O2'	5:M:406:U:H5'	0.99	1.14
2:J:89:A:C2	2:J:90:A:C5	2.35	1.14
4:L:517:U:O2'	4:L:518:U:H5'	1.46	1.14
4:L:507:U:C2'	4:L:508:U:C5'	2.25	1.14
3:K:97:A:H2'	3:K:98:A:O4'	1.47	1.14
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:91:A:O2'	1:I:92:A:H5'	0.96	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
1:I:180:A:C2	1:I:181:A:N9	2.16	1.14
4:L:657:U:O2'	4:L:658:U:H5'	1.45	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
2:J:183:A:O2'	2:J:184:A:H5'	0.96	1.14
5:M:408:U:C2'	5:M:409:U:C5'	2.23	1.14
1:I:337:A:O2'	1:I:338:A:H5'	0.99	1.14
6:N:398:U:O2'	6:N:399:U:H5'	1.46	1.14
1:I:109:A:H2'	1:I:110:A:H8	1.01	1.14
5:M:349:U:O2'	5:M:350:U:H5'	1.45	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
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:160:A:C2'	2:J:161:A:H5'	1.76	1.14
3:K:46:A:O2'	3:K:47:A:H5'	1.47	1.14
2:J:176:A:O2'	2:J:177:A:C5'	1.95	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:3:A:O3'	2:J:4:A:P	2.05	1.14
5:M:319:U:C3'	5:M:320:U:H5'	1.63	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
3:K:179:A:O3'	3:K:180:A:P	2.05	1.14
5:M:406:U:C2'	5:M:407:U:H5'	1.72	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:335:U:O4	5:M:336:U:O4	1.64	1.13
1:I:324:A:O2'	1:I:325:A:H5'	1.45	1.13
4:L:497:U:H2'	4:L:498:U:C5'	1.64	1.13
6:N:368:U:O2'	6:N:369:U:H5'	1.45	1.13
1:I:78:A:C2	1:I:79:A:C8	2.35	1.13
1:I:184:A:N6	1:I:185:A:H62	1.44	1.13
1:I:106:A:C2	1:I:107:A:C5	2.36	1.13
6:N:485:U:C3'	6:N:486:U:H5'	1.77	1.13
2:J:161:A:O2'	2:J:162:A:C5'	1.94	1.13
2:J:129:A:C2'	2:J:130:A:H5'	1.75	1.13
4:L:507:U:O2'	4:L:508:U:H5'	0.97	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
4:L:766:U:H2'	4:L:767:U:C6	1.83	1.13
4:L:674:U:O2'	4:L:675:U:C5'	1.97	1.13
6:N:497:U:H2'	6:N:498:U:O4'	1.47	1.13
4:L:436:U:H2'	4:L:437:U:C6	1.83	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
3:K:166:A:O2'	3:K:167:A:C5'	1.97	1.13
3:K:89:A:C2	3:K:90:A:N7	2.16	1.13
1:I:74:A:C2'	1:I:75:A:O4'	1.97	1.13
1:I:127:A:O2'	1:I:128:A:H5'	1.48	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
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
6:N:322:U:O3'	6:N:323:U:P	2.06	1.13
5:M:526:U:C2'	5:M:527:U:H5'	1.73	1.13
3:K:152:A:C6	3:K:153:A:N6	2.17	1.13
6:N:400:U:C2'	6:N:401:U:H5'	1.79	1.13
1:I:75:A:O2'	1:I:76:A:H5'	0.96	1.13
4:L:692:U:O2'	4:L:693:U:C5'	1.97	1.13
6:N:342:U:O2'	6:N:343:U:H5'	1.47	1.13
2:J:88:A:O2'	2:J:89:A:H5'	0.96	1.13
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:554:U:O2	4:L:555:U:C6	2.02	1.12
2:J:44:A:O2'	2:J:45:A:H5'	1.50	1.12
5:M:406:U:C2'	5:M:407:U:C5'	2.27	1.12
1:I:48:A:O2'	1:I:49:A:H5'	1.48	1.12
1:I:90:A:O2'	1:I:91:A:H5'	1.49	1.12
1:I:81:A:O2'	1:I:82:A:C5'	1.96	1.12
4:L:765:U:H2'	4:L:766:U:C5'	1.78	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
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:79:A:C2'	2:J:80:A:H5'	1.75	1.12
5:M:465:U:C2'	5:M:466:U:H5'	1.79	1.12
5:M:319:U:O2'	5:M:320:U:C5'	1.93	1.12
3:K:127:A:O2'	3:K:128:A:H5'	1.45	1.12
1:I:86:A:C5	1:I:87:A:N7	2.17	1.12
4:L:759:U:H2'	4:L:760:U:C5'	1.68	1.12
1:I:106:A:O2'	1:I:107:A:O5'	1.66	1.12
4:L:557:U:C2'	4:L:558:U:C5'	2.23	1.12
1:I:230:A:C2'	1:I:231:A:H5'	1.70	1.12
4:L:467:U:O2'	4:L:468:U:H5'	1.47	1.12
2:J:165:A:C2	2:J:166:A:C5	2.37	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
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:50:A:O2'	2:J:51:A:H5'	1.47	1.12
5:M:322:U:O2'	5:M:323:U:C5'	1.96	1.12
4:L:484:U:C2'	4:L:485:U:H5'	1.79	1.12
3:K:63:A:O2'	3:K:64:A:H5'	1.49	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
4:L:742:U:O2	4:L:743:U:C5	2.01	1.12
1:I:101:A:N3	1:I:102:A:N7	1.96	1.12
4:L:638:U:H2'	4:L:639:U:C5'	1.64	1.12
1:I:175:A:C2	1:I:176:A:N7	2.16	1.12
2:J:206:A:O2'	2:J:207:A:H5'	0.94	1.12
1:I:283:A:N3	1:I:284:A:C8	2.17	1.12
3:K:41:A:O2'	3:K:42:A:H5'	1.46	1.12
2:J:70:A:H2'	2:J:71:A:C5'	1.79	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:N:383:U:O2'	6:N:384:U:H5'	1.49	1.11
1:I:73:A:O2'	1:I:74:A:H5'	1.35	1.11
1:I:13:A:H2'	1:I:14:A:O4'	1.50	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
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
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
1:I:306:A:O2'	1:I:307:A:H5'	0.94	1.11
3:K:76:A:O2'	3:K:77:A:H5'	1.48	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
5:M:350:U:C2'	5:M:351:U:C5'	2.17	1.11
4:L:557:U:C2	4:L:558:U:C6	2.38	1.11
2:J:231:A:N6	2:J:232:A:N6	1.99	1.11
2:J:160:A:C2'	2:J:161:A:C5'	2.26	1.11
2:J:119:A:C6	2:J:120:A:N6	2.18	1.11
5:M:406:U:O2'	5:M:407:U:H5'	1.47	1.11
5:M:333:U:C2'	5:M:334:U:C5'	2.28	1.11
5:M:319:U:H2'	5:M:320:U:O4'	1.48	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
4:L:513:U:O2'	4:L:514:U:H5'	1.51	1.11
4:L:751:U:H2'	4:L:752:U:H6	1.07	1.11
4:L:724:U:C2'	4:L:725:U:C5'	2.28	1.11
1:I:287:A:C2'	1:I:288:A:C5'	2.28	1.11
6:N:484:U:C2'	6:N:485:U:H5'	1.79	1.11
2:J:236:A:O2'	2:J:237:A:P	2.09	1.11
2:J:171:A:C2	2:J:172:A:C5	2.38	1.11
5:M:541:U:O2'	5:M:542:U:H5'	1.50	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
6:N:430:U:O2'	6:N:431:U:H5'	1.48	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:143:A:H2'	1:I:144:A:C8	1.84	1.11
5:M:296:U:C2'	5:M:297:U:H5'	1.81	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
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
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
6:N:293:U:H2'	6:N:294:U:C6	1.85	1.11
5:M:337:U:O2'	5:M:338:U:C5'	1.94	1.10
1:I:320:A:O2'	1:I:321:A:H5'	1.51	1.10
3:K:88:A:O2'	3:K:89:A:H5'	1.49	1.10
3:K:74:A:O3'	3:K:75:A:P	2.09	1.10
4:L:618:U:O2'	4:L:619:U:H5'	1.51	1.10
2:J:39:A:O2'	2:J:40:A:H5'	1.48	1.10
5:M:382:U:O2'	5:M:383:U:C5'	2.00	1.10
4:L:758:U:N3	4:L:759:U:C5	2.20	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:580:U:O2'	4:L:581:U:H5'	1.49	1.10
5:M:298:U:O2'	5:M:299:U:H5'	1.47	1.10
5:M:430:U:C4	5:M:431:U:O4	2.04	1.10
2:J:89:A:O2'	2:J:90:A:P	2.08	1.10
5:M:322:U:C2'	5:M:323:U:C5'	2.29	1.10
1:I:336:A:O2'	1:I:337:A:H5'	1.50	1.10
4:L:494:U:O2'	4:L:495:U:H5'	1.50	1.10
3:K:125:A:O2'	3:K:126:A:C5'	1.98	1.10
6:N:467:U:O2'	6:N:468:U:H5'	0.93	1.10
6:N:466:U:O2'	6:N:467:U:H5'	1.49	1.10
4:L:812:U:C2'	4:L:813:U:H5'	1.73	1.10
5:M:348:U:H2'	5:M:349:U:H6	1.11	1.10
4:L:569:U:O2'	4:L:570:U:H5'	1.50	1.10
1:I:405:A:N6	1:I:406:A:N6	2.00	1.10
3:K:49:A:O2'	3:K:50:A:H5'	1.51	1.10
2:J:171:A:H2'	2:J:172:A:C8	1.86	1.10
2:J:83:A:C4	2:J:84:A:N7	2.20	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:94:A:C2'	2:J:95:A:H5'	1.82	1.10
5:M:333:U:O2'	5:M:334:U:C5'	2.00	1.10
1:I:323:A:H2'	1:I:324:A:C5'	1.69	1.10
4:L:524:U:O2'	4:L:525:U:H5'	1.46	1.10
1:I:70:A:O2'	1:I:71:A:H5'	1.48	1.10
4:L:736:U:O2'	4:L:737:U:C5'	2.00	1.10
6:N:279:U:O3'	6:N:280:U:P	2.10	1.10
1:I:134:A:N3	1:I:135:A:C8	2.19	1.10
2:J:100:A:O2'	2:J:101:A:C5'	2.00	1.10
2:J:97:A:O2'	2:J:98:A:P	2.10	1.10
5:M:526:U:O2'	5:M:527:U:C5'	1.99	1.10
3:K:124:A:N3	3:K:125:A:N7	2.00	1.10
1:I:44:A:O2'	1:I:45:A:H5'	1.52	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
6:N:516:U:O3'	6:N:517:U:P	2.09	1.10
5:M:290:U:O2'	5:M:291:U:H5'	1.51	1.10
2:J:56:A:H2'	2:J:57:A:C5'	1.80	1.09
5:M:522:U:O2'	5:M:523:U:H5'	1.49	1.09
5:M:336:U:C4	5:M:337:U:C4	2.40	1.09
3:K:100:A:C2'	3:K:101:A:H5'	1.63	1.09
6:N:379:U:C2'	6:N:380:U:H5'	1.66	1.09
3:K:167:A:C5	3:K:168:A:N7	2.20	1.09
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
4:L:775:U:C2'	4:L:776:U:H5'	1.81	1.09
2:J:230:A:O2'	2:J:231:A:C5'	1.99	1.09
5:M:396:U:C2'	5:M:397:U:H5'	1.82	1.09
2:J:143:A:C2	2:J:144:A:C8	2.40	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
4:L:746:U:O2'	4:L:747:U:C5'	2.00	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
4:L:698:U:O2'	4:L:699:U:C5'	1.99	1.09
1:I:236:A:O2'	1:I:237:A:C5'	2.01	1.09
4:L:563:U:H2'	4:L:564:U:H6	1.03	1.09
1:I:358:A:O2'	1:I:359:A:P	2.09	1.09
2:J:229:A:C2'	2:J:230:A:H5'	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:242:A:O3'	3:K:243:A:P	2.10	1.09
2:J:127:A:C2'	2:J:128:A:H5'	1.81	1.09
2:J:92:A:C2	2:J:93:A:N7	2.19	1.09
5:M:505:U:O2'	5:M:506:U:H5'	0.92	1.09
5:M:453:U:H2'	5:M:454:U:C6	1.87	1.09
1:I:326:A:O2'	1:I:327:A:H5'	1.53	1.09
6:N:440:U:O2'	6:N:441:U:C5'	2.01	1.09
4:L:746:U:O2'	4:L:747:U:P	2.09	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
4:L:588:U:O2'	4:L:589:U:C5'	2.00	1.09
4:L:466:U:O2'	4:L:467:U:C5'	1.99	1.09
2:J:143:A:N3	2:J:144:A:C8	2.19	1.09
2:J:84:A:O2'	2:J:85:A:H5'	1.49	1.09
2:J:214:A:O2'	2:J:215:A:C5'	2.00	1.09
2:J:223:A:C2'	2:J:224:A:H5'	1.82	1.09
6:N:426:U:O2'	6:N:427:U:H5'	0.92	1.09
4:L:734:U:O2'	4:L:735:U:H5'	1.51	1.09
3:K:252:A:O3'	3:K:253:A:P	2.10	1.09
1:I:186:A:C2	1:I:187:A:C5	2.41	1.09
4:L:695:U:O2'	4:L:696:U:C5'	2.00	1.09
1:I:270:A:O2'	1:I:271:A:C5'	2.01	1.09
4:L:459:U:O2'	4:L:460:U:H5'	1.50	1.09
2:J:127:A:O2'	2:J:128:A:H5'	0.91	1.09
5:M:448:U:C2'	5:M:449:U:H5'	1.81	1.09
2:J:133:A:O2'	2:J:134:A:H5'	0.93	1.09
5:M:392:U:C2'	5:M:393:U:C5'	2.31	1.09
1:I:311:A:O2'	1:I:312:A:H5'	1.51	1.09
3:K:117:A:C2	3:K:118:A:C5	2.40	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
4:L:751:U:H2'	4:L:752:U:C6	1.86	1.09
4:L:751:U:O2'	4:L:752:U:C5'	2.00	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
2:J:265:A:N3	2:J:266:A:C8	2.21	1.09
5:M:455:U:C2'	5:M:456:U:H5'	1.78	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:106:A:H2'	3:K:107:A:C8	1.87	1.08
6:N:431:U:O2'	6:N:432:U:H5'	0.93	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
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
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
1:I:109:A:H2'	1:I:110:A:C8	1.88	1.08
6:N:519:U:O3'	6:N:520:U:P	2.11	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:757:U:H2'	4:L:758:U:H6	1.03	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
4:L:705:U:C2'	4:L:706:U:C5'	2.29	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
2:J:136:A:N3	2:J:137:A:C8	2.21	1.08
2:J:8:A:C2'	2:J:9:A:H5'	1.84	1.08
5:M:452:U:O2'	5:M:453:U:C5'	2.02	1.08
2:J:56:A:O2'	2:J:57:A:H5'	0.92	1.08
5:M:510:U:O2'	5:M:511:U:H5'	1.51	1.08
1:I:342:A:O2'	1:I:343:A:H5'	1.53	1.08
4:L:501:U:O2'	4:L:502:U:C5'	2.01	1.08
6:N:434:U:H2'	6:N:435:U:H6	1.15	1.08
4:L:711:U:H2'	4:L:712:U:C6	1.87	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:O4'	1.51	1.08
1:I:266:A:C2	1:I:267:A:N9	2.20	1.08
1:I:230:A:C2'	1:I:231:A:C5'	2.29	1.08
4:L:421:U:O2'	4:L:422:U:H5'	1.51	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
3:K:155:A:C5	3:K:156:A:N7	2.22	1.08
1:I:85:A:O2'	1:I:86:A:H5'	0.90	1.08
4:L:758:U:C2'	4:L:759:U:H5'	1.82	1.08
4:L:690:U:C2	4:L:691:U:C5	2.42	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:166:A:O2'	1:I:167:A:H5'	1.51	1.08
4:L:723:U:C4	4:L:724:U:O4	2.05	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
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
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
5:M:371:U:C2'	5:M:372:U:H5'	1.83	1.08
5:M:368:U:O2'	5:M:369:U:C5'	2.02	1.08
5:M:448:U:O2'	5:M:449:U:C5'	2.02	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
6:N:484:U:C3'	6:N:485:U:H5'	1.84	1.08
2:J:29:A:O2'	2:J:30:A:C5'	1.88	1.07
3:K:120:A:C6	3:K:121:A:N7	2.21	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
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
4:L:660:U:O2'	4:L:661:U:H5'	1.51	1.07
2:J:204:A:C5	2:J:205:A:N7	2.22	1.07
4:L:459:U:C2'	4:L:460:U:H5'	1.84	1.07
6:N:316:U:H2'	6:N:317:U:C6	1.88	1.07
2:J:30:A:O2'	2:J:31:A:H5'	1.52	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
3:K:120:A:C5	3:K:121:A:N7	2.22	1.07
1:I:65:A:H2'	1:I:66:A:C5'	1.56	1.07
4:L:791:U:O2'	4:L:792:U:H5'	1.54	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
6:N:496:U:H2'	6:N:497:U:O4'	1.55	1.07
2:J:160:A:H2'	2:J:161:A:O4'	1.53	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
1:I:82:A:O2'	1:I:83:A:H5'	1.52	1.07
4:L:746:U:C2	4:L:747:U:C6	2.42	1.07
1:I:43:A:C2	1:I:44:A:C5	2.41	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:745:U:C2	4:L:746:U:C5	2.43	1.07
4:L:715:U:H2'	4:L:716:U:H6	0.96	1.07
4:L:549:U:C2'	4:L:550:U:C5'	2.30	1.07
6:N:501:U:O2'	6:N:502:U:H5'	1.53	1.07
4:L:438:U:N3	4:L:439:U:O4	1.87	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
5:M:429:U:H2'	5:M:430:U:H6	1.20	1.07
2:J:216:A:C2	2:J:217:A:N7	2.22	1.07
5:M:311:U:O3'	5:M:312:U:P	2.12	1.07
3:K:165:A:H2'	3:K:166:A:C5'	1.80	1.07
6:N:467:U:C2'	6:N:468:U:H5'	1.84	1.07
4:L:635:U:O2'	4:L:636:U:H5'	1.52	1.07
1:I:186:A:O2'	1:I:187:A:P	2.12	1.07
4:L:613:U:O2'	4:L:614:U:H5'	1.54	1.07
3:K:43:A:N6	3:K:44:A:N6	2.03	1.07
2:J:136:A:N3	2:J:137:A:N9	2.02	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
1:I:65:A:O2'	1:I:66:A:H5'	0.90	1.07
5:M:348:U:N3	5:M:349:U:C4	2.23	1.07
6:N:484:U:O2'	6:N:485:U:H5'	1.54	1.07
1:I:362:A:N6	1:I:363:A:N6	2.03	1.07
5:M:425:U:O2'	5:M:426:U:C5'	2.03	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
4:L:778:U:O2'	4:L:779:U:H5'	1.55	1.06
3:K:253:A:O2'	3:K:254:A:C5'	2.03	1.06
1:I:131:A:N6	1:I:132:A:H62	1.37	1.06
4:L:722:U:N3	4:L:723:U:O4	1.88	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
3:K:203:A:N3	3:K:204:A:N7	2.03	1.06
1:I:296:A:C2'	1:I:297:A:H5'	1.84	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
5:M:335:U:C4	5:M:336:U:C5	2.44	1.06
1:I:109:A:O2'	1:I:110:A:H5'	1.44	1.06
4:L:639:U:O2'	4:L:640:U:H5'	1.52	1.06
1:I:240:A:O2'	1:I:241:A:P	2.13	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:339:U:O2'	6:N:340:U:H5'	1.56	1.06
5:M:296:U:O2'	5:M:297:U:H5'	1.55	1.06
5:M:405:U:H2'	5:M:406:U:O4'	1.55	1.06
2:J:89:A:N3	2:J:90:A:C8	2.24	1.06
5:M:531:U:H2'	5:M:532:U:C5'	1.82	1.06
1:I:337:A:C2'	1:I:338:A:H5'	1.84	1.06
3:K:120:A:C2'	3:K:121:A:H5'	1.85	1.06
3:K:97:A:C2'	3:K:98:A:C5'	2.34	1.06
6:N:376:U:H2'	6:N:377:U:H6	1.19	1.06
1:I:95:A:N3	1:I:96:A:N7	2.02	1.06
4:L:777:U:O2'	4:L:778:U:H5'	1.55	1.06
1:I:43:A:N3	1:I:44:A:C8	2.23	1.06
4:L:771:U:O2'	4:L:772:U:H5'	1.53	1.06
1:I:133:A:H2'	1:I:134:A:O4'	1.55	1.06
2:J:205:A:H2'	2:J:206:A:C5'	1.80	1.06
1:I:361:A:O2'	1:I:362:A:C5'	2.02	1.06
6:N:304:U:H2'	6:N:305:U:C6	1.91	1.06
2:J:51:A:H2'	2:J:52:A:C8	1.89	1.06
2:J:97:A:N3	2:J:98:A:C8	2.23	1.06
2:J:69:A:O2'	2:J:70:A:C5'	2.03	1.06
4:L:498:U:C2'	4:L:499:U:C5'	2.31	1.06
3:K:119:A:H2'	3:K:120:A:C5'	1.59	1.06
1:I:186:A:C2	1:I:187:A:C8	2.43	1.06
4:L:715:U:O2'	4:L:716:U:O5'	1.70	1.06
1:I:287:A:H2'	1:I:288:A:O4'	1.52	1.06
2:J:229:A:C2'	2:J:230:A:C5'	2.33	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
3:K:165:A:O2'	3:K:166:A:C5'	1.99	1.06
3:K:62:A:N6	3:K:63:A:H62	1.50	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
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
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
5:M:485:U:C2'	5:M:486:U:C5'	2.32	1.05
2:J:219:A:O2'	2:J:220:A:C5'	2.03	1.05
4:L:811:U:C2	4:L:812:U:C6	2.43	1.05
1:I:91:A:C2'	1:I:92:A:C5'	2.32	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:598:U:O2'	4:L:599:U:H5'	1.55	1.05
2:J:236:A:C2	2:J:237:A:C5	2.44	1.05
2:J:182:A:C5	2:J:183:A:N7	2.24	1.05
2:J:47:A:O2'	2:J:48:A:H5'	0.88	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
4:L:517:U:C2'	4:L:518:U:H5'	1.80	1.05
6:N:449:U:C2'	6:N:450:U:H5'	1.85	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:459:U:H2'	6:N:460:U:C6	1.91	1.05
1:I:273:A:H2'	1:I:274:A:O4'	1.54	1.05
6:N:487:U:C4	6:N:488:U:O4	2.07	1.05
2:J:157:A:O2'	2:J:158:A:H5'	1.55	1.05
6:N:326:U:H2'	6:N:327:U:C6	1.89	1.05
5:M:511:U:H2'	5:M:512:U:O4'	1.56	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
5:M:432:U:O2'	5:M:433:U:C5'	2.05	1.05
5:M:513:U:O2'	5:M:514:U:H5'	1.54	1.05
1:I:317:A:O2'	1:I:318:A:C5'	2.04	1.05
3:K:168:A:H2'	3:K:169:A:C5'	1.84	1.05
3:K:118:A:H2'	3:K:119:A:C5'	1.80	1.05
4:L:758:U:C2	4:L:759:U:C6	2.45	1.05
1:I:41:A:O2'	1:I:42:A:H5'	1.56	1.05
6:N:281:U:C2'	6:N:282:U:H5'	1.87	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
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
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
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
4:L:737:U:O2'	4:L:738:U:H5'	1.57	1.05
6:N:277:U:O2'	6:N:278:U:C5'	2.04	1.05
1:I:150:A:O2'	1:I:151:A:H5'	1.54	1.05
5:M:348:U:C4	5:M:349:U:O4	2.08	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:604:U:O2'	4:L:605:U:H5'	1.52	1.05
1:I:268:A:C2	1:I:269:A:C4	2.44	1.05
6:N:486:U:H2'	6:N:487:U:C6	1.92	1.05
6:N:294:U:O2'	6:N:295:U:H5'	1.56	1.05
6:N:510:U:O3'	6:N:511:U:P	2.14	1.05
5:M:300:U:O2'	5:M:301:U:H5'	1.56	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
6:N:474:U:O2'	6:N:475:U:H5'	1.57	1.05
3:K:103:A:O2'	3:K:104:A:H5'	1.56	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
4:L:768:U:O2'	4:L:769:U:H5'	0.88	1.05
2:J:58:A:O2'	2:J:59:A:C5'	2.05	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
1:I:79:A:O2'	1:I:80:A:H5'	1.55	1.04
4:L:722:U:C2'	4:L:723:U:C6	2.40	1.04
4:L:660:U:H2'	4:L:661:U:O4'	1.54	1.04
1:I:248:A:O2'	1:I:249:A:C5'	2.03	1.04
6:N:317:U:H2'	6:N:318:U:C6	1.92	1.04
3:K:191:A:O2'	3:K:192:A:H5'	1.57	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
6:N:425:U:C2'	6:N:426:U:C6	2.37	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
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
4:L:448:U:C4	4:L:449:U:O4	2.10	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
1:I:330:A:C2'	1:I:331:A:H5'	1.86	1.04
4:L:488:U:C2'	4:L:489:U:H5'	1.88	1.04
3:K:168:A:H2'	3:K:169:A:O4'	1.54	1.04
3:K:117:A:O2'	3:K:118:A:P	2.14	1.04
3:K:168:A:C3'	3:K:169:A:H5'	1.75	1.04
6:N:412:U:C2'	6:N:413:U:H5'	1.87	1.04
1:I:74:A:C4	1:I:75:A:C8	2.45	1.04
1:I:59:A:O2'	1:I:60:A:H5'	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:133:A:H2'	1:I:134:A:C5'	1.84	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
1:I:283:A:C2	1:I:284:A:N7	2.25	1.04
1:I:242:A:C2	1:I:243:A:C4	2.46	1.04
4:L:570:U:O2'	4:L:571:U:H5'	1.58	1.04
6:N:485:U:C2'	6:N:486:U:H5'	1.87	1.04
2:J:242:A:O3'	2:J:243:A:P	2.14	1.04
2:J:43:A:H2'	2:J:44:A:O4'	1.57	1.04
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
2:J:218:A:O2'	2:J:219:A:C5'	2.04	1.04
1:I:325:A:N6	1:I:326:A:N6	2.05	1.04
3:K:100:A:H2'	3:K:101:A:O4'	1.57	1.04
3:K:96:A:O2'	3:K:97:A:H5'	1.58	1.04
6:N:417:U:H2'	6:N:418:U:O4'	1.58	1.04
1:I:4:A:H2'	1:I:5:A:C8	1.92	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
1:I:164:A:C2	1:I:165:A:C5	2.46	1.04
3:K:45:A:O3'	3:K:46:A:H5'	1.58	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
5:M:433:U:O4	5:M:434:U:O4	1.73	1.04
1:I:21:A:H2'	1:I:22:A:C8	1.92	1.04
4:L:814:U:O2'	4:L:815:U:C5'	2.06	1.04
1:I:134:A:N6	1:I:135:A:N6	2.04	1.04
4:L:634:U:C2'	4:L:635:U:C5'	2.35	1.04
4:L:541:U:O2'	4:L:542:U:H5'	1.58	1.04
1:I:273:A:C2'	1:I:274:A:C5'	2.35	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
2:J:117:A:H2'	2:J:118:A:H8	1.20	1.03
2:J:92:A:N3	2:J:93:A:C8	2.25	1.03
5:M:450:U:H2'	5:M:451:U:C6	1.93	1.03
3:K:142:A:H2'	3:K:143:A:H8	1.17	1.03
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
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
1:I:258:A:C2'	1:I:259:A:H5'	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:278:A:H2'	1:I:279:A:O4'	1.56	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
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: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
4:L:812:U:C2'	4:L:813:U:C5'	2.31	1.03
4:L:649:U:C2'	4:L:650:U:H5'	1.84	1.03
2:J:210:A:C2'	2:J:211:A:H5'	1.87	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
5:M:466:U:O2'	5:M:467:U:H5'	1.58	1.03
6:N:417:U:C2'	6:N:418:U:H5'	1.82	1.03
1:I:14:A:O2'	1:I:15:A:H5'	1.58	1.03
1:I:183:A:C2	1:I:184:A:N9	2.26	1.03
1:I:112:A:H2'	1:I:113:A:C8	1.94	1.03
4:L:634:U:O2'	4:L:635:U:C5'	2.06	1.03
1:I:244:A:O2'	1:I:245:A:H5'	1.56	1.03
4:L:540:U:O2'	4:L:541:U:C5'	2.05	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
4:L:450:U:O2'	4:L:451:U:H5'	1.56	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
5:M:336:U:C2	5:M:337:U:C6	2.47	1.03
4:L:509:U:O2'	4:L:510:U:H5'	1.59	1.03
6:N:417:U:C2'	6:N:418:U:C5'	2.33	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
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
4:L:690:U:C4	4:L:691:U:O4	2.12	1.03
5:M:347:U:O2'	5:M:348:U:H5'	0.85	1.03
6:N:481:U:C2'	6:N:482:U:H5'	1.87	1.03
1:I:202:A:O2'	1:I:203:A:H5'	0.86	1.03
4:L:449:U:O2'	4:L:450:U:H5'	1.56	1.03
3:K:234:A:N6	3:K:235:A:N6	2.07	1.03
2:J:101:A:N6	2:J:102:A:H62	1.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:425:U:C2	6:N:426:U:C5	2.47	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:760:U:O2'	4:L:761:U:H5'	1.58	1.03
1:I:112:A:H2'	1:I:113:A:H8	1.22	1.03
1:I:103:A:O2'	1:I:104:A:O5'	1.77	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
4:L:550:U:O2'	4:L:551:U:H5'	0.85	1.03
2:J:187:A:O2'	2:J:188:A:H5'	1.57	1.02
2:J:71:A:N6	2:J:72:A:N6	2.06	1.02
5:M:420:U:C2'	5:M:421:U:H5'	1.88	1.02
5:M:483:U:C2'	5:M:484:U:H5'	1.90	1.02
4:L:518:U:C2'	4:L:519:U:C5'	2.28	1.02
3:K:97:A:O2'	3:K:98:A:H5'	1.57	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
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
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
2:J:83:A:H2'	2:J:84:A:H8	1.17	1.02
5:M:441:U:O2'	5:M:442:U:H5'	1.57	1.02
5:M:373:U:C2'	5:M:374:U:H5'	1.90	1.02
4:L:500:U:C2'	4:L:501:U:C5'	2.35	1.02
3:K:75:A:O3'	3:K:76:A:P	2.17	1.02
4:L:810:U:H2'	4:L:811:U:O4'	1.58	1.02
1:I:149:A:O3'	1:I:150:A:P	2.17	1.02
4:L:695:U:HO2'	4:L:696:U:H5'	1.23	1.02
4:L:723:U:O4	4:L:724:U:O4	1.77	1.02
1:I:253:A:N6	1:I:254:A:N6	2.07	1.02
1:I:250:A:H2'	1:I:251:A:C8	1.95	1.02
2:J:171:A:H2'	2:J:172:A:H8	1.21	1.02
2:J:84:A:C2'	2:J:85:A:H5'	1.85	1.02
5:M:410:U:H2'	5:M:411:U:C6	1.94	1.02
2:J:42:A:H2'	2:J:43:A:O4'	1.58	1.02
1:I:341:A:C2'	1:I:342:A:H5'	1.88	1.02
4:L:477:U:H2'	4:L:478:U:C5'	1.83	1.02
3:K:136:A:C2'	3:K:137:A:C5'	2.34	1.02
1:I:97:A:O2'	1:I:98:A:C5'	2.07	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:820:U:H2'	4:L:821:U:C6	1.93	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
4:L:684:U:C4	4:L:685:U:O4	2.11	1.02
6:N:484:U:C2'	6:N:485:U:O4'	2.07	1.02
5:M:449:U:O2'	5:M:450:U:H5'	0.85	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
4:L:500:U:O2'	4:L:501:U:C5'	2.06	1.02
4:L:723:U:C4	4:L:724:U:C5	2.44	1.02
4:L:622:U:O2'	4:L:623:U:H5'	0.84	1.02
1:I:271:A:C2	1:I:272:A:C8	2.48	1.02
3:K:49:A:O2'	3:K:50:A:C5'	2.07	1.02
2:J:129:A:C2'	2:J:130:A:C5'	2.37	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
3:K:104:A:C2'	3:K:105:A:H5'	1.87	1.02
1:I:134:A:N1	1:I:135:A:C6	2.27	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:284:A:C2'	1:I:285:A:C5'	2.37	1.02
3:K:11:A:O3'	3:K:12:A:P	2.17	1.02
5:M:410:U:H2'	5:M:411:U:H6	1.23	1.01
2:J:215:A:O2'	2:J:216:A:H5'	1.58	1.01
5:M:318:U:O2'	5:M:319:U: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
3:K:90:A:O2'	3:K:91:A:C5'	2.08	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
3:K:64:A:O2'	3:K:65:A:C5'	2.07	1.01
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
2:J:204:A:C6	2:J:205:A:N6	2.28	1.01
1:I:283:A:N3	1:I:284:A:N7	2.08	1.01
1:I:233:A:C2'	1:I:234:A:C5'	2.36	1.01
4:L:436:U:H2'	4:L:437:U:H6	1.17	1.01
6:N:328:U:H2'	6:N:329:U:C6	1.95	1.01
2:J:223:A:H2'	2:J:224:A:C5'	1.88	1.01
4:L:489:U:C4	4:L:490:U:O4	2.13	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:124:A:C2	3:K:125:A:N7	2.28	1.01
6:N:401:U:O2'	6:N:402:U:H5'	1.57	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
4:L:755:U:C2'	4:L:756:U:H5'	1.87	1.01
4:L:679:U:O3'	4:L:680:U:P	2.17	1.01
1:I:109:A:O2'	1:I:110:A:O5'	1.77	1.01
5:M:355:U:O2'	5:M:356:U:H5'	1.59	1.01
2:J:249:A:C2'	2:J:250:A:H5'	1.88	1.01
3:K:214:A:H2'	3:K:215:A:C8	1.94	1.01
3:K:203:A:O2'	3:K:204:A:P	2.16	1.01
5:M:455:U:C2'	5:M:456:U:C5'	2.37	1.01
2:J:92:A:C4	2:J:93:A:N7	2.29	1.01
5:M:407:U:N3	5:M:408:U:C4	2.29	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
2:J:225:A:C2	2:J:226:A:C8	2.49	1.01
1:I:348:A:O2'	1:I:349:A:H5'	1.58	1.01
4:L:525:U:C2'	4:L:526:U:H5'	1.90	1.01
4:L:758:U:C2'	4:L:759:U:C5'	2.36	1.01
4:L:821:U:O2'	4:L:822:U:H5'	1.57	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:723:U:C2'	4:L:724:U:O4'	2.08	1.01
2:J:204:A:C6	2:J:205:A:C6	2.48	1.01
4:L:566:U:O2'	4:L:567:U:C5'	2.07	1.01
1:I:33:A:O2'	1:I:34:A: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
4:L:532:U:C2'	4:L:533:U:C5'	2.39	1.01
3:K:95:A:C2'	3:K:96:A:H5'	1.91	1.01
6:N:442:U:O2'	6:N:443:U:C5'	2.09	1.01
3:K:96:A:H2'	3:K:97:A:O4'	1.59	1.01
6:N:415:U:H2'	6:N:416:U:C6	1.95	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
4:L:794:U:O2'	4:L:795:U:C5'	2.08	1.01
1:I:67:A:C5	1:I:68:A:N7	2.29	1.01
4:L:763:U:H2'	4:L:764:U:H6	1.16	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:638:U:O2'	4:L:639:U:H5'	0.84	1.01
4:L:547:U:H2'	4:L:548:U:C6	1.95	1.01
4:L:463:U:O2'	4:L:464:U:C5'	2.08	1.01
2:J:229:A:O2'	2:J:230:A:C4'	2.08	1.01
2:J:166:A:H2'	2:J:167:A:H8	1.25	1.01
1:I:291:A:C2'	1:I:292:A:H5'	1.91	1.01
2:J:260:A:O2'	2:J:261:A:H5'	1.60	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
2:J:42:A:C2'	2:J:43:A:O4'	2.09	1.01
5:M:381:U:H2'	5:M:382:U:C6	1.96	1.01
4:L:517:U:C2'	4:L:518:U:C5'	2.38	1.01
3:K:155:A:C4	3:K:156:A:C8	2.49	1.01
3:K:120:A:C6	3:K:121:A:C5	2.48	1.01
6:N:362:U:O2'	6:N:363:U:C5'	2.08	1.01
4:L:751:U:C2'	4:L:752:U:C5'	2.38	1.01
4:L:749:U:O2'	4:L:750:U:C5'	2.07	1.01
1:I:197:A:O2'	1:I:198:A:H5'	1.59	1.01
1:I:277:A:H2'	1:I:278:A:C8	1.95	1.01
1:I:242:A:C2	1:I:243:A:N9	2.29	1.01
4:L:617:U:O2'	4:L:618:U:H5'	1.60	1.01
1:I:358:A:C2	1:I:359:A:C5	2.49	1.01
2:J:160:A:C2'	2:J:161:A:O4'	2.08	1.01
6:N:321:U:C4	6:N:322:U:O4	2.14	1.01
3:K:204:A:H2'	3:K:205:A:C8	1.96	1.01
2:J:252:A:O2'	2:J:253:A:H5'	1.60	1.01
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
4:L:510:U:C2'	4:L:511:U:H5'	1.89	1.00
3:K:107:A:O2'	3:K:108:A:C5'	2.08	1.00
3:K:167:A:N6	3:K:168:A:N6	2.09	1.00
3:K:71:A:C2	3:K:72:A:C5	2.49	1.00
3:K:112:A:N6	3:K:113:A:H62	1.52	1.00
1:I:55:A:O2'	1:I:56:A:C5'	2.09	1.00
4:L:718:U:O2'	4:L:719:U:H5'	0.83	1.00
1:I:102:A:H2'	1:I:103:A:H8	1.25	1.00
4:L:435:U:H2'	4:L:436:U:O4'	1.59	1.00
2:J:26:A:O2'	2:J:27:A:C5'	2.09	1.00
5:M:535:U:O2'	5:M:536:U:H5'	1.61	1.00
2:J:94:A:C2'	2:J:95:A:C5'	2.39	1.00
6:N:388:U:H2'	6:N:389:U:C6	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:131:A:N6	3:K:132:A:H62	1.60	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:70:A:H2'	1:I:71:A:O4'	1.62	1.00
4:L:631:U:O2'	4:L:632:U:H5'	1.59	1.00
2:J:204:A:C4	2:J:205:A:N7	2.29	1.00
5:M:386:U:C2	5:M:387:U:C5	2.49	1.00
4:L:529:U:HO2'	4:L:530:U:H5'	1.20	1.00
3:K:139:A:O2'	3:K:140:A:H5'	1.61	1.00
6:N:400:U:O2'	6:N:401:U:C5'	2.08	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
4:L:466:U:C2'	4:L:467:U:H5'	1.90	1.00
3:K:12:A:O3'	3:K:13:A:P	2.18	1.00
5:M:444:U:O2'	5:M:445:U:P	2.19	1.00
4:L:483:U:O2'	4:L:484:U:H5'	1.62	1.00
6:N:277:U:C2'	6:N:278:U:C5'	2.38	1.00
1:I:180:A:C2	1:I:181:A:C4	2.50	1.00
2:J:147:A:N3	2:J:148:A:C8	2.30	1.00
2:J:171:A:N3	2:J:172:A:N7	2.09	1.00
5:M:505:U:HO2'	5:M:506:U:H5'	1.24	1.00
4:L:776:U:C2'	4:L:777:U:H5'	1.83	1.00
1:I:135:A:H2'	1:I:136:A:C5'	1.91	1.00
4:L:706:U:N3	4:L:707:U:C5	2.28	1.00
5:M:352:U:O2'	5:M:353:U:H5'	1.61	1.00
2:J:161:A:C2'	2:J:162:A:H5'	1.90	1.00
5:M:461:U:O2'	5:M:462:U:H5'	1.62	1.00
5:M:336:U:O2'	5:M:337:U:H5'	1.62	1.00
3:K:162:A:O2'	3:K:163:A:H5'	1.61	1.00
6:N:456:U:O3'	6:N:457:U:P	2.20	1.00
1:I:13:A:C2'	1:I:14:A:O4'	2.08	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
1:I:258:A:O2'	1:I:259:A:C5'	2.08	1.00
4:L:576:U:H2'	4:L:577:U:C5'	1.86	1.00
3:K:74:A:C3'	3:K:75:A:P	2.50	1.00
4:L:776:U:C2'	4:L:777:U:C5'	2.40	1.00
3:K:225:A:H2'	3:K:226:A:C8	1.97	1.00
5:M:489:U:H2'	5:M:490:U:O4'	1.62	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:219:A:C2'	2:J:220:A:H5'	1.92	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
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:73:A:O2'	1:I:74:A:O4'	1.74	0.99
4:L:804:U:H2'	4:L:805:U:C6	1.95	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
4:L:669:U:O2'	4:L:670:U:H5'	1.61	0.99
4:L:586:U:C4	4:L:587:U:O4	2.15	0.99
2:J:145:A:C6	2:J:146:A:C5	2.44	0.99
5:M:419:U:H2'	5:M:420:U:C5'	1.89	0.99
1:I:333:A:N3	1:I:334:A:C1'	2.25	0.99
3:K:136:A:O2'	3:K:137:A:H5'	0.83	0.99
1:I:74:A:C2'	1:I:75:A:H5'	1.76	0.99
4:L:724:U:H2'	4:L:725:U:O4'	1.62	0.99
1:I:221:A:O2'	1:I:222:A:H5'	1.61	0.99
4:L:576:U:O2'	4:L:577:U:H5'	0.83	0.99
1:I:202:A:C2'	1:I:203:A:C5'	2.35	0.99
2:J:117:A:N3	2:J:118:A:C8	2.29	0.99
2:J:64:A:H2'	2:J:65:A:H8	1.27	0.99
5:M:335:U:N3	5:M:336:U:C4	2.30	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
5:M:303:U:O2'	5:M:304:U:H5'	1.61	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:103:A:N3	1:I:104:A:C8	2.31	0.99
1:I:353:A:HO2'	1:I:354:A:H5'	1.20	0.99
2:J:147:A:C2	2:J:148:A:C5	2.50	0.99
6:N:438:U:O2'	6:N:439:U:H5'	1.61	0.99
1:I:66:A:C2'	1:I:67:A:H5'	1.92	0.99
4:L:779:U:HO2'	4:L:780:U:H5'	1.20	0.99
1:I:109:A:N3	1:I:110:A:C8	2.30	0.99
1:I:109:A:C2	1:I:110:A:C5	2.51	0.99
4:L:698:U:C2'	4:L:699:U:C5'	2.41	0.99
3:K:212:A:C6	3:K:213:A:N6	2.30	0.99
2:J:69:A:H2'	2:J:70:A:C5'	1.90	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:416:U:H2'	5:M:417:U:H6	1.26	0.99
3:K:71:A:C2	3:K:72:A:C4	2.50	0.99
6:N:400:U:C2'	6:N:401:U:C5'	2.40	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
3:K:239:A:O2'	3:K:240:A:H5'	1.62	0.99
2:J:29:A:C4	2:J:30:A:C8	2.50	0.99
5:M:449:U:C2'	5:M:450:U:H5'	1.91	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
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: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
4:L:649:U:C2'	4:L:650:U:C5'	2.40	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
6:N:481:U:O2'	6:N:482:U:H5'	0.82	0.99
2:J:145:A:C4	2:J:146:A:N7	2.31	0.99
2:J:79:A:C2'	2:J:80:A:C5'	2.40	0.99
1:I:316:A:N6	1:I:317:A:N6	2.11	0.99
6:N:449:U:C2'	6:N:450:U:C5'	2.40	0.99
1:I:15:A:H2'	1:I:16:A:O4'	1.63	0.99
4:L:740:U:C2'	4:L:741:U:H5'	1.90	0.99
4:L:552:U:C4	4:L:553:U:O4	2.15	0.99
6:N:329:U:H2'	6:N:330:U:C6	1.96	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:715:U:O2	4:L:716:U:C6	2.15	0.98
4:L:599:U:H2'	4:L:600:U:C6	1.98	0.98
2:J:135:A:N6	2:J:136:A:N6	2.10	0.98
5:M:505:U:C2'	5:M:506:U:H5'	1.92	0.98
6:N:394:U:HO2'	6:N:395:U:H5'	1.18	0.98
1:I:62:A:O2'	1:I:63:A:H5'	0.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:211:A:C2'	2:J:212:A:C5'	2.41	0.98
5:M:341:U:O2'	5:M:342:U:H5'	1.62	0.98
2:J:165:A:N3	2:J:166:A:C8	2.29	0.98
4:L:448:U:N3	4:L:449:U:O4	1.96	0.98
2:J:42:A:O2'	2:J:43:A:H5'	1.62	0.98
5:M:462:U:O2'	5:M:463:U:H5'	1.63	0.98
3:K:146:A:N3	3:K:147:A:C8	2.31	0.98
6:N:388:U:H2'	6:N:389:U:H6	1.23	0.98
4:L:769:U:C2'	4:L:770:U:H5'	1.92	0.98
1:I:135:A:C2'	1:I:136:A:C5'	2.38	0.98
1:I:287:A:C2'	1:I:288:A:O4'	2.11	0.98
2:J:11:A:H2'	2:J:12:A:O4'	1.64	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
5:M:327:U:O2	5:M:328:U:C6	2.15	0.98
4:L:763:U:H2'	4:L:764:U:O4'	1.63	0.98
4:L:693:U:N3	4:L:694:U:C4	2.32	0.98
2:J:211:A:HO2'	2:J:212:A:H5'	1.23	0.98
6:N:484:U:C2'	6:N:485:U:C5'	2.40	0.98
3:K:31:A:N6	3:K:32:A:H62	1.53	0.98
6:N:349:U:H2'	6:N:350:U:H6	1.26	0.98
5:M:473:U:O2'	5:M:474:U:H5'	1.62	0.98
1:I:306:A:HO2'	1:I:307:A:H5'	1.29	0.98
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
1:I:299:A:HO2'	1:I:300:A:H5'	1.18	0.98
3:K:237:A:H2'	3:K:238:A:C8	1.98	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
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
5:M:336:U:C5	5:M:337:U:C5	2.51	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
2:J:92:A:C2	2:J:93:A:C6	2.52	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:65:A:N6	3:K:66:A:H62	1.58	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
1:I:255:A:C2'	1:I:256:A:C5'	2.40	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
4:L:743:U:HO2'	4:L:744:U:H5'	1.17	0.98
4:L:683:U:H2'	4:L:684:U:C6	1.99	0.98
1:I:211:A:O2'	1:I:212:A:H5'	1.62	0.98
2:J:8:A:O2'	2:J:9:A:H5'	0.81	0.98
5:M:360:U:O2'	5:M:361:U:H5'	1.64	0.98
1:I:306:A:C2'	1:I:307:A:H5'	1.94	0.98
3:K:156:A:C2'	3:K:157:A:O4'	2.11	0.98
3:K:89:A:C2	3:K:90:A:C8	2.51	0.98
6:N:375:U:H2'	6:N:376:U:H6	1.28	0.98
4:L:556:U:O2	4:L:557:U:C6	2.17	0.98
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
5:M:334:U:C2	5:M:335:U:C6	2.52	0.97
3:K:100:A:C4	3:K:101:A:C8	2.51	0.97
6:N:426:U:C2	6:N:427:U:C6	2.51	0.97
1:I:25:A:HO2'	1:I:26:A:H5'	1.20	0.97
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
4:L:812:U:O2'	4:L:813:U:C5'	2.11	0.97
4:L:691:U:O2'	4:L:692:U:C5'	2.12	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
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
2:J:221:A:O2'	2:J:222:A:C5'	2.12	0.97
3:K:104:A:C2'	3:K:105:A:C5'	2.35	0.97
4:L:758:U:O2'	4:L:759:U:H5'	1.64	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:43:A:C6	3:K:44:A:N6	2.32	0.97
2:J:16:A:O2'	2:J:17:A:H5'	1.62	0.97
5:M:395:U:O2'	5:M:396:U:C5'	2.12	0.97
5:M:336:U:C2'	5:M:337:U:O4'	2.11	0.97
1:I:347:A:O2'	1:I:348:A:C5'	2.12	0.97
3:K:124:A:O2'	3:K:125:A:P	2.20	0.97
2:J:205:A:C2	2:J:206:A:C4	2.51	0.97
6:N:338:U:H2'	6:N:339:U:H6	1.27	0.97
2:J:43:A:H2'	2:J:44:A:C5'	1.93	0.97
5:M:465:U:C2'	5:M:466:U:C5'	2.42	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
6:N:375:U:C2	6:N:376:U:C5	2.52	0.97
4:L:690:U:N3	4:L:691:U:C4	2.31	0.97
1:I:376:A:C4	1:I:377:A:N7	2.33	0.97
2:J:138:A:N6	2:J:139:A:N6	2.13	0.97
4:L:501:U:HO2'	4:L:502:U:H5'	1.18	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
1:I:78:A:O2'	1:I:79:A:C5'	2.11	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
2:J:204:A:H2'	2:J:205:A:C8	1.99	0.97
5:M:350:U:H2'	5:M:351:U:C5'	1.89	0.97
5:M:445:U:O2'	5:M:446:U:H5'	1.64	0.97
3:K:120:A:C4	3:K:121:A:C8	2.52	0.97
6:N:417:U:O2'	6:N:418:U:C5'	2.12	0.97
4:L:810:U:H2'	4:L:811:U:C6	1.99	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:601:U:O2'	4:L:602:U:H5'	1.65	0.97
1:I:359:A:N6	1:I:360:A:N6	2.13	0.97
4:L:448:U:N3	4:L:449:U:C4	2.32	0.97
2:J:144:A:C2	5:M:410:U:C2	2.53	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
4:L:629:U:O2'	4:L:630:U:H5'	1.63	0.97
2:J:202:A:C2	2:J:203:A:C8	2.52	0.97
1:I:261:A:H2'	1:I:262:A:O4'	1.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:485:U:C2'	6:N:486:U:C5'	2.43	0.97
6:N:274:U:O2'	6:N:275:U:C5'	2.13	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
5:M:501:U:H2'	5:M:502:U:H6	1.02	0.97
4:L:814:U:H2'	4:L:815:U:C5'	1.95	0.97
1:I:142:A:HO2'	1:I:143:A:H5'	1.15	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
2:J:217:A:C6	2:J:218:A:N6	2.32	0.97
6:N:442:U:HO2'	6:N:443:U:H5'	1.19	0.97
4:L:766:U:C4	4:L:767:U:C4	2.53	0.97
4:L:637:U:H2'	4:L:638:U:H6	1.30	0.97
3:K:203:A:N3	3:K:204:A:C8	2.32	0.97
2:J:11:A:HO2'	2:J:12:A:H5'	1.17	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
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
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
6:N:280:U:C2'	6:N:281:U:H5'	1.94	0.97
2:J:210:A:O2'	2:J:211:A:H5'	1.63	0.97
6:N:324:U:H2'	6:N:325:U:C6	1.98	0.97
5:M:488:U:C2	5:M:489:U:C6	2.53	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
4:L:488:U:O2'	4:L:489:U:C5'	2.12	0.96
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:537:U:O2'	4:L:538:U:C5'	2.11	0.96
2:J:93:A:O2'	2:J:94:A:H5'	1.64	0.96
5:M:387:U:H2'	5:M:388:U:H6	1.30	0.96
1:I:323:A:C2	1:I:324:A:N9	2.33	0.96
3:K:146:A:C2	3:K:147:A:C5	2.52	0.96
2:J:202:A:HO2'	2:J:203:A:H5'	1.16	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:412:U:C2'	6:N:413:U:C5'	2.42	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:672:U:H2'	4:L:673:U:H6	1.30	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
6:N:324:U:H2'	6:N:325:U:H6	1.28	0.96
2:J:58:A:C2'	2:J:59:A:H5'	1.95	0.96
2:J:8:A:C2'	2:J:9:A:C5'	2.42	0.96
4:L:472:U:C2	4:L:473:U:C5	2.52	0.96
3:K:119:A:O2'	3:K:120:A:H5'	0.79	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
6:N:305:U:H2'	6:N:306:U:H6	1.26	0.96
3:K:181:A:C2	3:K:182:A:C5	2.53	0.96
5:M:486:U:HO2'	5:M:487:U:H5'	1.21	0.96
5:M:338:U:O2'	5:M:339:U:C5'	2.13	0.96
3:K:256:A:O2'	3:K:257:A:C5'	2.13	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
4:L:436:U:O2'	4:L:437:U:H5'	1.65	0.96
5:M:395:U:C2'	5:M:396:U:H5'	1.96	0.96
3:K:118:A:O2'	3:K:119:A:H5'	0.78	0.96
6:N:379:U:HO2'	6:N:380:U:H5'	1.26	0.96
4:L:755:U:O2'	4:L:756:U:C5'	2.12	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: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
4:L:755:U:C2'	4:L:756:U:C5'	2.42	0.96
4:L:672:U:H2'	4:L:673:U:C6	2.00	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
5:M:387:U:H2'	5:M:388:U:C6	2.00	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:95:A:N6	1:I:96:A:N6	2.13	0.96
4:L:780:U:O2'	4:L:781:U:C5'	2.13	0.96
1:I:270:A:C2	1:I:271:A:C4	2.54	0.96
4:L:547:U:N3	4:L:548:U:C4	2.33	0.96
1:I:355:A:C3'	1:I:356:A:P	2.54	0.96
2:J:92:A:N1	2:J:93:A:C6	2.33	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:65:A:C2	1:I:66:A:N9	2.34	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
4:L:688:U:HO2'	4:L:689:U:H5'	1.21	0.96
2:J:160:A:O2'	2:J:161:A:C4'	2.14	0.96
2:J:184:A:O2'	2:J:185:A:C5'	2.14	0.95
5:M:510:U:O2'	5:M:511:U:C5'	2.13	0.95
3:K:167:A:C6	3:K:168:A:C5	2.54	0.95
6:N:420:U:O2'	6:N:421:U:H5'	0.78	0.95
4:L:759:U:O2'	4:L:760:U:H5'	0.79	0.95
4:L:717:U:C2	4:L:718:U:C5	2.54	0.95
1:I:296:A:C2'	1:I:297:A:C5'	2.44	0.95
3:K:226:A:H2'	3:K:227:A:C8	2.01	0.95
6:N:411:U:O2'	6:N:412:U:C5'	2.13	0.95
1:I:95:A:N1	1:I:96:A:C6	2.33	0.95
4:L:750:U:H2'	4:L:751:U:C6	2.01	0.95
1:I:103:A:O2'	1:I:104:A:P	2.23	0.95
2:J:153:A:C2'	2:J:154:A:H5'	1.95	0.95
2:J:47:A:HO2'	2:J:48:A:H5'	1.13	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
1:I:58:A:H2'	1:I:59:A:H8	1.25	0.95
1:I:119:A:O2'	1:I:120:A:H5'	0.78	0.95
4:L:681:U:H2'	4:L:682:U:H6	1.29	0.95
1:I:266:A:C2	1:I:267:A:C4	2.54	0.95
6:N:517:U:O3'	6:N:518:U:P	2.23	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
5:M:327:U:C2	5:M:328:U:C5	2.53	0.95
3:K:60:A:O2'	3:K:61:A:H5'	1.66	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:46:A:O3'	3:K:47:A:H5'	1.66	0.95
2:J:117:A:O2'	2:J:118:A:O5'	1.83	0.95
5:M:451:U:C4	5:M:452:U:O4	2.19	0.95
1:I:85:A:C2	1:I:86:A:C4	2.53	0.95
4:L:814:U:HO2'	4:L:815:U:H5'	1.27	0.95
1:I:101:A:H2'	1:I:102:A:C8	2.00	0.95
5:M:354:U:C2	5:M:355:U:C5	2.54	0.95
1:I:250:A:C4	1:I:251:A:N7	2.35	0.95
2:J:229:A:C2'	2:J:230:A:O4'	2.14	0.95
6:N:327:U:C2'	6:N:328:U:O4'	2.12	0.95
2:J:64:A:H2'	2:J:65:A:C8	2.01	0.95
5:M:508:U:O2'	5:M:509:U:H5'	1.66	0.95
3:K:64:A:C2'	3:K:65:A:H5'	1.96	0.95
1:I:250:A:C6	1:I:251:A:C6	2.53	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
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
4:L:532:U:H2'	4:L:533:U:C5'	1.94	0.95
1:I:136:A:O2'	1:I:137:A:H5'	0.78	0.95
1:I:174:A:HO2'	1:I:175:A:H5'	1.32	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
4:L:583:U:C2	4:L:584:U:C5	2.55	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
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
5:M:369:U:HO2'	5:M:370:U:H5'	1.32	0.95
2:J:215:A:C2	2:J:216:A:C8	2.54	0.95
4:L:510:U:O2'	4:L:511:U:C5'	2.14	0.95
6:N:386:U:H2'	6:N:387:U:C6	2.00	0.95
4:L:758:U:C4	4:L:759:U:C5	2.55	0.95
2:J:209:A:O2'	2:J:210:A:H5'	1.66	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
3:K:181:A:H2'	3:K:182:A:H8	1.30	0.95
2:J:153:A:HO2'	2:J:154:A:H5'	1.32	0.95
5:M:333:U:H2'	5:M:334:U:C5'	1.94	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:47:A:C2	1:I:48:A:C5	2.54	0.95
4:L:797:U:O2'	4:L:798:U:H5'	1.65	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
6:N:485:U:O2'	6:N:486:U:C4'	2.15	0.95
1:I:33:A:C2'	1:I:34:A:H5'	1.97	0.95
6:N:318:U:H2'	6:N:319:U:C6	2.01	0.95
2:J:130:A:C2'	2:J:131:A:C5'	2.44	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
4:L:460:U:HO2'	4:L:461:U:H5'	1.19	0.95
3:K:45:A:O2'	3:K:46:A:H5'	1.66	0.95
3:K:81:A:C2'	3:K:82:A:H5'	1.95	0.94
3:K:92:A:HO2'	3:K:93:A:H5'	1.31	0.94
1:I:88:A:HO2'	1:I:89:A:H5'	1.18	0.94
4:L:754:U:C2'	4:L:755:U:C5'	2.42	0.94
1:I:119:A:HO2'	1:I:120:A:H5'	1.31	0.94
1:I:147:A:HO2'	1:I:148:A:H5'	1.23	0.94
4:L:668:U:H2'	4:L:669:U:H6	1.18	0.94
1:I:225:A:H2'	1:I:226:A:H8	1.31	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
5:M:337:U:C2	5:M:338:U:C6	2.55	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
3:K:88:A:N3	3:K:89:A:C8	2.33	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: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
4:L:711:U:C2'	4:L:712:U:O4'	2.15	0.94
2:J:205:A:H2'	2:J:206:A:O4'	1.67	0.94
4:L:581:U:C2	4:L:582:U:C5	2.54	0.94
2:J:265:A:C2	2:J:266:A:C4	2.55	0.94
2:J:56:A:HO2'	2:J:57:A:H5'	1.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:811:U:H2'	4:L:812:U:H6	1.25	0.94
1:I:127:A:C2'	1:I:128:A:H5'	1.97	0.94
2:J:198:A:O2'	2:J:199:A:H5'	1.65	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
3:K:46:A:C2'	3:K:47:A:H5'	1.97	0.94
2:J:92:A:N1	2:J:93:A:N6	2.15	0.94
5:M:323:U:O2'	5:M:324:U:H5'	1.22	0.94
1:I:325:A:N6	1:I:326:A:H62	1.63	0.94
6:N:406:U:O2'	6:N:407:U:H5'	1.66	0.94
1:I:96:A:C6	1:I:97:A:C5	2.55	0.94
1:I:96:A:C5	1:I:97:A:N7	2.34	0.94
1:I:278:A:C2'	1:I:279:A:O4'	2.14	0.94
4:L:593:U:C2	4:L:594:U:C5	2.55	0.94
6:N:317:U:H2'	6:N:318:U:H6	1.28	0.94
3:K:181:A:N3	3:K:182:A:C8	2.34	0.94
2:J:92:A:C6	2:J:93:A:N6	2.35	0.94
5:M:483:U:HO2'	5:M:484:U:H5'	1.22	0.94
5:M:537:U:O2'	5:M:538:U:H5'	1.67	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
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
4:L:549:U:C2'	4:L:550:U:H5'	1.82	0.94
5:M:371:U:C2'	5:M:372:U:C5'	2.44	0.94
2:J:225:A:N3	2:J:226:A:C8	2.35	0.94
1:I:303:A:O2'	1:I:304:A:H5'	1.66	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
4:L:766:U:C4	4:L:767:U:O4	2.20	0.94
5:M:347:U:H2'	5:M:348:U:C5'	1.97	0.94
1:I:243:A:C5	1:I:244:A:N7	2.35	0.94
4:L:587:U:C2'	4:L:588:U:H5'	1.97	0.94
2:J:127:A:C2'	2:J:128:A:C5'	2.43	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
1:I:323:A:O2'	1:I:324:A:H5'	0.77	0.94
6:N:362:U:HO2'	6:N:363:U:H5'	1.23	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:91:A:H2'	1:I:92:A:C5'	1.96	0.94
4:L:767:U:H2'	4:L:768:U:H6	1.22	0.94
4:L:634:U:HO2'	4:L:635:U:H5'	1.19	0.94
2:J:210:A:H2'	2:J:211:A:O4'	1.67	0.94
1:I:245:A:N3	1:I:246:A:C8	2.35	0.94
4:L:424:U:C4	4:L:425:U:O4	2.21	0.94
5:M:469:U:H2'	5:M:470:U:C6	2.03	0.94
1:I:335:A:N6	1:I:336:A:H62	1.65	0.94
4:L:487:U:HO2'	4:L:488:U:H5'	1.17	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
1:I:52:A:HO2'	1:I:53:A:H5'	1.25	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
4:L:637:U:H2'	4:L:638:U:C6	2.03	0.94
2:J:204:A:N6	2:J:205:A:H62	1.62	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
6:N:488:U:O2'	6:N:489:U:H5'	1.68	0.94
2:J:230:A:C2'	2:J:231:A:C5'	2.46	0.94
2:J:229:A:H2'	2:J:230:A:O4'	1.67	0.94
6:N:332:U:H2'	6:N:333:U:C6	2.02	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
3:K:252:A:C3'	3:K:253:A:P	2.54	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
1:I:207:A:HO2'	1:I:208:A:H5'	1.23	0.94
4:L:597:U:HO2'	4:L:598:U:H5'	1.00	0.94
6:N:497:U:H2'	6:N:498:U:C5'	1.98	0.94
5:M:409:U:C2	5:M:410:U:C6	2.55	0.94
1:I:335:A:C6	1:I:336:A:N6	2.36	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:142:A:C6	2:J:143:A:N6	2.36	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
1:I:261:A:H2'	1:I:262:A:C8	2.02	0.93
1:I:260:A:C2'	1:I:261:A:H5'	1.94	0.93
4:L:557:U:O2'	4:L:558:U:C5'	2.12	0.93
2:J:142:A:H2'	2:J:143:A:H8	1.33	0.93
5:M:368:U:HO2'	5:M:369:U:H5'	1.33	0.93
5:M:324:U:H2'	5:M:325:U:C6	2.03	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
6:N:474:U:C2'	6:N:475:U:H5'	1.99	0.93
1:I:68:A:H2'	1:I:69:A:C5'	1.99	0.93
4:L:729:U:C4	4:L:730:U:O4	2.21	0.93
1:I:123:A:O2'	1:I:124:A:H5'	1.68	0.93
4:L:637:U:C2	4:L:638:U:C5	2.56	0.93
5:M:350:U:O2'	5:M:351:U:H5'	0.76	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
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
3:K:45:A:O3'	3:K:46:A:C5'	2.16	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
6:N:459:U:H2'	6:N:460:U:H6	1.30	0.93
1:I:85:A:C2	1:I:86:A:N9	2.36	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:483:U:N3	6:N:484:U:C4	2.37	0.93
2:J:26:A:HO2'	2:J:27:A:H5'	1.24	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
3:K:99:A:HO2'	3:K:100:A:H5'	1.12	0.93
6:N:430:U:C2'	6:N:431:U:H5'	1.92	0.93
4:L:806:U:O2'	4:L:807:U:H5'	1.69	0.93
1:I:138:A:H2'	1:I:139:A:C5'	1.99	0.93
4:L:689:U:O2'	4:L:690:U:H5'	1.67	0.93
1:I:263:A:O2'	1:I:264:A:H5'	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:120:A:O2'	2:J:121:A:C5'	2.16	0.93
1:I:63:A:N6	1:I:64:A:H62	1.67	0.93
4:L:815:U:C2'	4:L:816:U:C5'	2.45	0.93
2:J:204:A:C4	2:J:205:A:C8	2.57	0.93
1:I:239:A:HO2'	1:I:240:A:H5'	1.18	0.93
1:I:243:A:N6	1:I:244:A:H62	1.57	0.93
5:M:318:U:HO2'	5:M:319:U:H5'	1.16	0.93
1:I:54:A:C2	1:I:55:A:N7	2.36	0.93
1:I:69:A:HO2'	1:I:70:A:H5'	1.26	0.93
1:I:85:A:N3	1:I:86:A:C8	2.37	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
3:K:256:A:HO2'	3:K:257:A:H5'	1.30	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
4:L:677:U:HO2'	4:L:678:U:H5'	1.14	0.93
4:L:702:U:O2'	4:L:703:U:C5'	2.17	0.93
1:I:229:A:O2'	1:I:230:A:C5'	2.16	0.93
4:L:596:U:H2'	4:L:597:U:H6	1.34	0.93
6:N:333:U:H2'	6:N:334:U:O4'	1.69	0.93
2:J:88:A:C2'	2:J:89:A:H5'	1.98	0.93
5:M:425:U:HO2'	5:M:426:U:H5'	1.20	0.93
6:N:424:U:C2'	6:N:425:U:H6	1.81	0.93
1:I:12:A:C2'	1:I:13:A:H5'	1.97	0.93
1:I:82:A:C2'	1:I:83:A:O4'	2.15	0.93
4:L:769:U:HO2'	4:L:770:U:H5'	1.22	0.93
4:L:722:U:O2	4:L:723:U:C6	2.22	0.93
4:L:466:U:HO2'	4:L:467:U:H5'	1.19	0.93
6:N:274:U:HO2'	6:N:275:U:H5'	1.14	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
5:M:538:U:N3	5:M:539:U:C5	2.37	0.93
3:K:142:A:H2'	3:K:143:A:C8	2.03	0.93
6:N:429:U:C2	6:N:430:U:C5	2.57	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
4:L:704:U:C2'	4:L:705:U:H5'	1.99	0.93
1:I:231:A:C5	1:I:232:A:N7	2.37	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:173:A:H2'	2:J:174:A:H8	1.18	0.93
5:M:466:U:H2'	5:M:467:U:O4'	1.69	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
6:N:379:U:O2'	6:N:380:U:C5'	2.17	0.93
1:I:67:A:C4	1:I:68:A:C8	2.57	0.93
4:L:765:U:O2'	4:L:766:U:C5'	2.14	0.93
1:I:164:A:H2'	1:I:165:A:H8	1.31	0.93
4:L:673:U:HO2'	4:L:674:U:H5'	1.25	0.93
5:M:346:U:C2'	5:M:347:U:C5'	2.47	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
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
2:J:100:A:HO2'	2:J:101:A:H5'	1.15	0.93
5:M:452:U:HO2'	5:M:453:U:H5'	1.15	0.93
5:M:525:U:HO2'	5:M:526:U:H5'	1.22	0.93
4:L:498:U:O2'	4:L:499:U:C5'	2.17	0.93
3:K:160:A:O2'	3:K:161:A:H5'	1.69	0.93
6:N:400:U:HO2'	6:N:401:U:H5'	1.11	0.93
4:L:691:U:HO2'	4:L:692:U:H5'	1.27	0.93
2:J:210:A:C2'	2:J:211:A:C5'	2.46	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
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
5:M:405:U:C2'	5:M:406:U:O4'	2.15	0.92
6:N:374:U:O2'	6:N:375:U:C5'	2.16	0.92
6:N:425:U:N3	6:N:426:U:C4	2.36	0.92
3:K:253:A:HO2'	3:K:254:A:H5'	1.32	0.92
4:L:690:U:C4	4:L:691:U:C4	2.57	0.92
6:N:497:U:C3'	6:N:498:U:H5'	1.76	0.92
3:K:46:A:O2'	3:K:47:A:C5'	2.16	0.92
6:N:349:U:H2'	6:N:350:U:C6	2.03	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
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
3:K:133:A:O2'	3:K:134:A:H5'	1.68	0.92
6:N:455:U:C3'	6:N:456:U:P	2.57	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:751:U:O2'	4:L:752:U:C4'	2.16	0.92
4:L:779:U:H2'	4:L:780:U:C5'	1.97	0.92
1:I:226:A:O2'	1:I:227:A:H5'	1.69	0.92
1:I:260:A:HO2'	1:I:261:A:H5'	1.26	0.92
1:I:271:A:C2	1:I:272:A:N7	2.36	0.92
4:L:566:U:C2'	4:L:567:U:H5'	1.98	0.92
6:N:492:U:HO2'	6:N:493:U:H5'	1.26	0.92
2:J:28:A:C5	2:J:29:A:N7	2.36	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
4:L:488:U:C2'	4:L:489:U:C5'	2.47	0.92
3:K:155:A:C6	3:K:156:A:C5	2.58	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:249:A:O2'	2:J:250:A:C5'	2.17	0.92
3:K:212:A:H2'	3:K:213:A:C8	2.04	0.92
2:J:13:A:N3	2:J:14:A:C8	2.38	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
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
3:K:119:A:HO2'	3:K:120:A:H5'	1.19	0.92
1:I:21:A:H2'	1:I:22:A:H8	1.33	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
4:L:647:U:O2'	4:L:648:U:C5'	2.15	0.92
1:I:262:A:HO2'	1:I:263:A:H5'	1.34	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
5:M:392:U:O2'	5:M:393:U:C4'	2.18	0.92
2:J:214:A:HO2'	2:J:215:A:H5'	1.12	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
4:L:711:U:H2'	4:L:712:U:H6	1.23	0.92
4:L:547:U:C4	4:L:548:U:C4	2.57	0.92
2:J:161:A:HO2'	2:J:162:A:H5'	1.14	0.92
2:J:83:A:N1	2:J:84:A:C5	2.36	0.92
5:M:488:U:H2'	5:M:489:U:C6	2.03	0.92
2:J:223:A:C6	2:J:224:A:N7	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:781:U:C2	4:L:782:U:C5	2.58	0.92
6:N:277:U:HO2'	6:N:278:U:H5'	1.25	0.92
4:L:722:U:N3	4:L:723:U:C4	2.35	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
4:L:557:U:H2'	4:L:558:U:C5'	1.99	0.92
4:L:603:U:HO2'	4:L:604:U:H5'	1.30	0.92
2:J:254:A:C2'	2:J:255:A:H5'	1.97	0.92
5:M:539:U:HO2'	5:M:540:U:H5'	1.12	0.92
4:L:491:U:O2	4:L:492:U:C6	2.22	0.92
6:N:423:U:HO2'	6:N:424:U:H5'	1.23	0.92
1:I:55:A:HO2'	1:I:56:A:H5'	1.28	0.92
1:I:74:A:C6	1:I:75:A:C5	2.58	0.92
4:L:758:U:H2'	4:L:759:U:O4'	1.68	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
5:M:306:U:O2'	5:M:307:U:H5'	1.70	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
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:405:U:O2'	6:N:406:U:C5'	2.17	0.92
1:I:95:A:N3	1:I:96:A:C8	2.36	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
1:I:229:A:C2'	1:I:230:A:H5'	1.99	0.92
1:I:255:A:HO2'	1:I:256:A:H5'	1.22	0.92
1:I:358:A:C2	1:I:359:A:C8	2.57	0.92
3:K:204:A:N6	3:K:205:A:N6	2.18	0.92
6:N:318:U:C4	6:N:319:U:O4	2.21	0.92
3:K:49:A:N3	3:K:50:A:C8	2.37	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
3:K:156:A:C3'	3:K:157:A:H5'	1.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:764:U:C4	4:L:765:U:C5	2.57	0.92
1:I:188:A:O2'	1:I:189:A:H5'	1.70	0.92
4:L:649:U:C2	4:L:650:U:C6	2.57	0.92
6:N:327:U:C2'	6:N:328:U:H5'	2.00	0.92
1:I:388:A:H2'	1:I:389:A:C8	2.05	0.92
2:J:42:A:H2'	2:J:43:A:C8	2.04	0.92
5:M:328:U:C2	5:M:329:U:C5	2.58	0.92
1:I:340:A:C2	1:I:341:A:C5	2.57	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
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: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
1:I:265:A:N6	1:I:266:A:N6	2.18	0.92
5:M:296:U:C2'	5:M:297:U:C5'	2.47	0.92
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:88:A:HO2'	2:J:89:A:H5'	1.12	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:8:A:N6	1:I:9:A:N6	2.18	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
2:J:206:A:H2'	2:J:207:A:C5'	1.99	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:159:A:H2'	2:J:160:A:C8	2.05	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
2:J:88:A:C2	2:J:89:A:N9	2.38	0.91
4:L:498:U:HO2'	4:L:499:U:H5'	1.19	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:484:U:O2'	6:N:485:U:C4'	2.17	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
6:N:331:U:H2'	6:N:332:U:C6	2.04	0.91
1:I:292:A:O2'	1:I:293:A:H5'	1.71	0.91
6:N:526:U:O2'	6:N:527:U:H5'	1.70	0.91
2:J:83:A:H2'	2:J:84:A:C8	2.03	0.91
5:M:420:U:C2'	5:M:421:U:C5'	2.47	0.91
1:I:337:A:C2'	1:I:338:A:C5'	2.45	0.91
3:K:113:A:O2'	3:K:114:A:H5'	1.69	0.91
1:I:67:A:C4	1:I:68:A:N7	2.39	0.91
4:L:763:U:O2'	4:L:764:U:H5'	1.70	0.91
1:I:180:A:N3	1:I:181:A:C8	2.38	0.91
1:I:270:A:C2'	1:I:271:A:O4'	2.17	0.91
6:N:492:U:O2'	6:N:493:U:C5'	2.17	0.91
2:J:192:A:HO2'	2:J:193:A:H5'	1.32	0.91
5:M:319:U:HO2'	5:M:320:U:H5'	1.33	0.91
5:M:337:U:HO2'	5:M:338:U:H5'	1.30	0.91
1:I:348:A:C2'	1:I:349:A:H5'	2.00	0.91
1:I:91:A:HO2'	1:I:92:A:H5'	1.31	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:207:A:C2'	1:I:208:A:H5'	2.00	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
5:M:331:U:HO2'	5:M:332:U:H5'	1.15	0.91
1:I:343:A:O2'	1:I:344:A:H5'	1.69	0.91
4:L:733:U:HO2'	4:L:734:U:H5'	1.35	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
4:L:642:U:C2'	4:L:643:U:H5'	1.99	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
2:J:136:A:H2	2:J:137:A:C4	1.65	0.91
2:J:89:A:N3	2:J:90:A:N7	2.17	0.91
5:M:453:U:C2	5:M:454:U:C6	2.59	0.91
5:M:464:U:HO2'	5:M:465:U:H5'	1.30	0.91
1:I:342:A:C2'	1:I:343:A:C5'	2.48	0.91
4:L:515:U:H2'	4:L:516:U:H6	1.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:766:U:H2'	4:L:767:U:H6	1.28	0.91
1:I:163:A:C2	1:I:164:A:C4	2.59	0.91
4:L:586:U:C2	4:L:587:U:C5	2.58	0.91
6:N:483:U:N3	6:N:484:U:O4	2.03	0.91
2:J:231:A:N6	2:J:232:A:H62	1.65	0.91
2:J:183:A:C2	2:J:184:A:N9	2.38	0.91
5:M:523:U:C2	5:M:524:U:C5	2.59	0.91
1:I:327:A:O2'	1:I:328:A:H5'	1.70	0.91
4:L:499:U:C4	4:L:500:U:O4	2.23	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
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:178:A:HO2'	1:I:179:A:H5'	1.29	0.91
4:L:723:U:C2	4:L:724:U:C6	2.59	0.91
4:L:566:U:HO2'	4:L:567:U:H5'	1.25	0.91
6:N:483:U:C4	6:N:484:U:C4	2.59	0.91
2:J:166:A:N3	2:J:167:A:C8	2.39	0.91
2:J:147:A:O2'	2:J:148:A:O5'	1.88	0.91
4:L:510:U:C2'	4:L:511:U:C5'	2.48	0.91
3:K:90:A:C2'	3:K:91:A:H5'	2.00	0.91
6:N:392:U:C2	6:N:393:U:C5	2.58	0.91
1:I:56:A:HO2'	1:I:57:A:H5'	1.26	0.91
1:I:107:A:C5	1:I:108:A:N7	2.39	0.91
2:J:130:A:HO2'	2:J:131:A:H5'	1.35	0.91
2:J:69:A:H2'	2:J:70:A:O4'	1.71	0.91
5:M:522:U:C2'	5:M:523:U:H5'	2.00	0.91
5:M:335:U:C5	5:M:336:U:H5	1.88	0.91
1:I:341:A:C2'	1:I:342:A:C5'	2.49	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
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
1:I:278:A:O2'	1:I:279:A:H5'	1.71	0.91
4:L:571:U:H2'	4:L:572:U:C6	2.06	0.91
6:N:496:U:O2'	6:N:497:U:H5'	1.68	0.91
2:J:265:A:HO2'	2:J:266:A:H5'	1.33	0.91
1:I:33:A:HO2'	1:I:34:A:C5'	1.81	0.91
2:J:234:A:HO2'	2:J:235:A:H5'	1.26	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:319:U:H2'	6:N:320:U:C6	2.06	0.91
2:J:13:A:O2'	2:J:14:A:C5'	2.18	0.91
2:J:43:A:HO2'	2:J:44:A:H5'	1.20	0.91
5:M:324:U:H2'	5:M:325:U:H6	1.35	0.91
1:I:316:A:N6	1:I:317:A:H62	1.69	0.91
6:N:420:U:HO2'	6:N:421:U:H5'	1.14	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:109:A:HO2'	1:I:110:A:H5'	1.36	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
4:L:652:U:HO2'	4:L:653:U:H5'	1.36	0.91
4:L:597:U:O2'	4:L:598:U:C5'	2.19	0.91
2:J:165:A:H2'	2:J:166:A:H8	1.32	0.91
2:J:117:A:N3	2:J:118:A:N9	2.19	0.90
2:J:83:A:N1	2:J:84:A:C6	2.38	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
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
1:I:274:A:C2	1:I:275:A:C8	2.60	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
2:J:100:A:C2'	2:J:101:A:H5'	2.01	0.90
5:M:416:U:O2	5:M:417:U:C1'	2.18	0.90
5:M:416:U:O2	5:M:417:U:C6	2.25	0.90
2:J:219:A:C2'	2:J:220:A:C5'	2.49	0.90
1:I:347:A:HO2'	1:I:348:A:H5'	1.30	0.90
3:K:130:A:O2'	3:K:131:A:C5'	2.19	0.90
3:K:81:A:C2'	3:K:82:A:C5'	2.49	0.90
1:I:14:A:C4	1:I:15:A:C8	2.59	0.90
4:L:768:U:HO2'	4:L:769:U:H5'	1.29	0.90
1:I:106:A:C2	1:I:107:A:C8	2.59	0.90
4:L:655:U:O2'	4:L:656:U:H5'	1.71	0.90
1:I:225:A:H2'	1:I:226:A:C8	2.06	0.90
2:J:58:A:HO2'	2:J:59:A:H5'	1.30	0.90
2:J:99:A:H2'	2:J:100:A:H8	1.27	0.90
5:M:386:U:O2'	5:M:387:U:P	2.29	0.90
5:M:531:U:O2'	5:M:532:U:C5'	2.15	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:335:U:C5	5:M:336:U:C5	2.60	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
4:L:717:U:N3	4:L:718:U:C4	2.39	0.90
1:I:227:A:O2'	1:I:228:A:C5'	2.20	0.90
5:M:371:U:HO2'	5:M:372:U:H5'	1.12	0.90
3:K:147:A:C2	3:K:148:A:C5	2.58	0.90
4:L:766:U:C2	4:L:767:U:C5	2.60	0.90
4:L:587:U:H2'	4:L:588:U:H6	1.36	0.90
4:L:425:U:O2'	4:L:426:U:H5'	1.70	0.90
5:M:387:U:O2	5:M:388:U:C6	2.24	0.90
1:I:322:A:C5	1:I:323:A:N7	2.39	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:96:A:C2'	3:K:97:A:C5'	2.49	0.90
1:I:69:A:C2'	1:I:70:A:C5'	2.48	0.90
2:J:205:A:O2'	2:J:206:A:C4'	2.20	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
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
3:K:192:A:C6	3:K:193:A:N6	2.40	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
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
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
3:K:251:A:N6	3:K:252:A:H62	1.69	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:269:A:H2'	1:I:270:A:C5'	2.02	0.90
6:N:339:U:H2'	6:N:340:U:H6	1.36	0.90
2:J:37:A:C2'	2:J:38:A:H5'	2.01	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
2:J:219:A:HO2'	2:J:220:A:H5'	1.33	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:322:A:N6	1:I:323:A:N6	2.20	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
1:I:41:A:C2	1:I:42:A:C4	2.59	0.90
2:J:236:A:N3	2:J:237:A:N7	2.19	0.90
5:M:526:U:HO2'	5:M:527:U:H5'	1.12	0.90
1:I:307:A:O2'	1:I:308:A:H5'	1.71	0.90
1:I:67:A:H2'	1:I:68:A:O4'	1.72	0.90
4:L:742:U:O2'	4:L:743:U:P	2.30	0.90
4:L:754:U:H2'	4:L:755:U:H6	1.34	0.90
4:L:754:U:O2'	4:L:755:U:C5'	2.20	0.90
5:M:347:U:C2	5:M:348:U:C6	2.59	0.90
1:I:240:A:O2'	1:I:241:A:C5'	2.20	0.90
3:K:201:A:H2'	3:K:202:A:C8	2.05	0.90
6:N:316:U:H2'	6:N:317:U:H6	1.28	0.90
6:N:454:U:O2'	6:N:455:U:C5'	2.20	0.90
1:I:85:A:HO2'	1:I:86:A:H5'	1.13	0.90
1:I:245:A:O2'	1:I:246:A:P	2.29	0.90
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:546:U:O2'	4:L:547:U:H5'	1.71	0.90
4:L:421:U:O2'	4:L:422:U:C5'	2.19	0.90
6:N:320:U:C2'	6:N:321:U:H5'	2.02	0.90
2:J:124:A:HO2'	2:J:125:A:H5'	1.30	0.90
5:M:408:U:H2'	5:M:409:U:C5'	2.01	0.90
3:K:130:A:HO2'	3:K:131:A:H5'	1.33	0.90
3:K:132:A:HO2'	3:K:133:A:H5'	1.31	0.90
3:K:166:A:HO2'	3:K:167:A:H5'	1.09	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
1:I:46:A:O2'	1:I:47:A:P	2.30	0.90
1:I:4:A:C2	1:I:5:A:C5	2.59	0.90
4:L:548:U:H2'	4:L:549:U:H6	1.36	0.90
6:N:497:U:O2'	6:N:498:U:C5'	2.17	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
2:J:34:A:O2'	2:J:35:A:H5'	1.72	0.89
2:J:222:A:HO2'	2:J:223:A:H5'	1.36	0.89
6:N:378:U:C2	6:N:379:U:C5	2.61	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:71:A:C2'	1:I:72:A:H5'	1.99	0.89
4:L:751:U:C2'	4:L:752:U: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
6:N:483:U:C2	6:N:484:U:C5	2.60	0.89
1:I:376:A:N1	1:I:377:A:C6	2.39	0.89
2:J:195:A:O2'	2:J:196: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
5:M:460:U:H2'	5:M:461:U:H6	1.34	0.89
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: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
4:L:714:U:H2'	4:L:715:U:C6	2.06	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
1:I:388:A:O2'	1:I:389:A:H5'	1.72	0.89
2:J:103:A:HO2'	2:J:104:A:H5'	1.20	0.89
2:J:136:A:C2	2:J:137:A:C5	2.60	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
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
4:L:487:U:H2'	4:L:488:U:C5'	2.00	0.89
3:K:65:A:C5	3:K:66:A:N7	2.39	0.89
1:I:81:A:HO2'	1:I:82:A:H5'	1.26	0.89
4:L:811:U:N3	4:L:812:U:C5	2.41	0.89
2:J:249:A:HO2'	2:J:250:A:H5'	1.07	0.89
1:I:353:A:H2'	1:I:354:A:C5'	1.99	0.89
4:L:421:U:H2'	4:L:422:U:H6	1.37	0.89
6:N:327:U:C2'	6:N:328:U:C5'	2.50	0.89
3:K:192:A:H2'	3:K:193:A:H8	1.29	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
2:J:216:A:O2'	2:J:217:A:P	2.29	0.89
1:I:310:A:C2'	1:I:311:A:H5'	1.99	0.89
4:L:525:U:C2'	4:L:526:U:C5'	2.51	0.89
3:K:95:A:C2'	3:K:96:A:C5'	2.50	0.89
1:I:49:A:C2	1:I:50:A:C8	2.61	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:422:U:O2'	4:L:423:U:H5'	1.72	0.89
2:J:83:A:N3	2:J:84:A:N7	2.18	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: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
4:L:715:U:HO2'	4:L:716:U:H5'	1.30	0.89
4:L:557:U:HO2'	4:L:558:U:H5'	0.97	0.89
4:L:466:U:C2'	4:L:467:U:C5'	2.49	0.89
4:L:421:U:H2'	4:L:422:U:C6	2.08	0.89
2:J:37:A:O2'	2:J:38:A:C5'	2.18	0.89
2:J:61:A:C2	2:J:62:A:C5	2.60	0.89
5:M:380:U:H2'	5:M:381:U:H6	1.37	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:143:A:N3	2:J:144:A:N9	2.20	0.89
5:M:455:U:HO2'	5:M:456:U:H5'	1.09	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
1:I:310:A:O2'	1:I:311:A:H5'	1.73	0.89
4:L:478:U:O2'	4:L:479:U:H5'	1.73	0.89
3:K:142:A:C2	3:K:143:A:C4	2.61	0.89
6:N:360:U:O2'	6:N:361:U:H5'	1.72	0.89
1:I:66:A:C2'	1:I:67:A:C5'	2.49	0.89
4:L:677:U:C2'	4:L:678:U:H5'	2.02	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
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
6:N:311:U:O2'	6:N:312:U:H5'	1.71	0.89
6:N:293:U:H2'	6:N:294:U:H6	1.31	0.89
3:K:166:A:H2'	3:K:167:A:O5'	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:380:U:C2'	6:N:381:U:C5'	2.51	0.89
6:N:441:U:O2'	6:N:442:U:H5'	1.70	0.89
4:L:767:U:H2'	4:L:768:U:C5	2.07	0.89
4:L:677:U:O2'	4:L:678:U:C5'	2.19	0.89
4:L:590:U:O2'	4:L:591:U:H5'	1.72	0.89
2:J:161:A:C2'	2:J:162:A:C5'	2.49	0.89
2:J:117:A:C2	2:J:118:A:C5	2.60	0.89
2:J:37:A:HO2'	2:J:38:A:H5'	1.13	0.89
2:J:91:A:O2'	2:J:92:A:H5'	1.73	0.89
2:J:215:A:N3	2:J:216:A:C8	2.40	0.89
6:N:467:U:C2'	6:N:468:U:C5'	2.49	0.89
4:L:757:U:C2'	4:L:758:U:H6	1.85	0.89
1:I:183:A:C2	1:I:184:A:C8	2.60	0.89
4:L:667:U:O2'	4:L:668:U:H5'	1.71	0.89
4:L:595:U:C2'	4:L:596:U:H5'	2.01	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
3:K:166:A:C2'	3:K:167:A:H5'	2.01	0.89
3:K:57:A:H2'	3:K:58:A:C8	2.08	0.89
4:L:764:U:N3	4:L:765:U:C5	2.41	0.89
1:I:115:A:O2'	1:I:116:A:H5'	1.73	0.89
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
2:J:202:A:N3	2:J:203:A:C8	2.41	0.89
1:I:269:A:C4	1:I:270:A:C8	2.60	0.89
4:L:611:U:H2'	4:L:612:U:C6	2.07	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
6:N:349:U:C2	6:N:350:U:C5	2.61	0.89
3:K:1:A:O2'	3:K:2:A:H5'	1.73	0.89
2:J:128:A:O2'	2:J:129:A:H5'	1.72	0.88
5:M:369:U:O2'	5:M:370:U:C5'	2.18	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
3:K:78:A:O2'	3:K:79:A:H5'	1.72	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
4:L:722:U:O2	4:L:723:U:C4	2.20	0.88
1:I:277:A:C6	1:I:278:A:C6	2.61	0.88
4:L:567:U:C2'	4:L:568:U:H5'	2.02	0.88
2:J:54:A:C2'	2:J:55:A:H5'	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:321:U:C4	5:M:322:U:O4	2.26	0.88
5:M:333:U:HO2'	5:M:334:U:H5'	1.30	0.88
1:I:333:A:C2	1:I:334:A:C1'	2.56	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
2:J:203:A:O2'	2:J:204:A:H5'	1.74	0.88
4:L:544:U:C4	4:L:545:U:C4	2.61	0.88
2:J:265:A:C2	2:J:266:A:C8	2.61	0.88
2:J:127:A:HO2'	2:J:128:A:H5'	1.07	0.88
2:J:176:A:N3	2:J:177:A:C8	2.40	0.88
2:J:47:A:C2	2:J:48:A:N9	2.42	0.88
1:I:69:A:O2'	1:I:70:A:C5'	2.18	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:109:A:HO2'	1:I:110:A:C5'	1.84	0.88
1:I:179:A:C6	1:I:180:A:C5	2.62	0.88
4:L:723:U:N3	4:L:724:U:C4	2.41	0.88
1:I:248:A:HO2'	1:I:249:A:H5'	1.35	0.88
1:I:280:A:C2	1:I:281:A:N7	2.42	0.88
4:L:594:U:O2'	4:L:595:U:C5'	2.18	0.88
3:K:49:A:HO2'	3:K:50:A:H5'	1.39	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
1:I:342:A:H2'	1:I:343:A:C5'	2.02	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
3:K:95:A:HO2'	3:K:96:A:H5'	1.36	0.88
6:N:426:U:H2'	6:N:427:U:H6	1.36	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
4:L:573:U:C2	4:L:574:U:C5	2.62	0.88
2:J:248:A:C5	2:J:249:A:N7	2.41	0.88
2:J:236:A:N3	2:J:237:A:C8	2.41	0.88
6:N:316:U:H2'	6:N:317:U:O4'	1.73	0.88
2:J:183:A:HO2'	2:J:184:A:H5'	1.33	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
5:M:328:U:O2'	5:M:329:U:P	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:N:526:U:C2'	6:N:527:U:H5'	2.03	0.88
2:J:29:A:H2'	2:J:30:A:O4'	1.74	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
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
3:K:54:A:C3'	3:K:55:A:OP2	2.21	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
4:L:815:U:HO2'	4:L:816:U:H5'	1.35	0.88
1:I:231:A:C4	1:I:232:A:C8	2.61	0.88
1:I:257:A:HO2'	1:I:258:A:H5'	1.32	0.88
1:I:279:A:O2'	1:I:280:A:H5'	0.70	0.88
2:J:249:A:C2'	2:J:250:A:C5'	2.50	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
5:M:330:U:O2'	5:M:331:U:H5'	1.74	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
6:N:440:U:HO2'	6:N:441:U:H5'	1.36	0.88
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
4:L:810:U:C2'	4:L:811:U:H5'	2.01	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
1:I:274:A:C2	1:I:275:A:N9	2.41	0.88
4:L:461:U:H2'	4:L:462:U:H6	1.37	0.88
4:L:436:U:C2'	4:L:437:U:O4'	2.21	0.88
2:J:117:A:C2	2:J:118:A:N9	2.40	0.88
2:J:42:A:O2'	2:J:43:A:O4'	1.91	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
2:J:221:A:HO2'	2:J:222:A:H5'	1.30	0.88
4:L:520:U:O2'	4:L:521:U:H5'	1.73	0.88
3:K:89:A:N3	3:K:90:A:N7	2.18	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:67:A:H2'	1:I:68:A:C8	2.08	0.88
4:L:756:U:C2	4:L:757:U:C5	2.62	0.88
1:I:254:A:HO2'	1:I:255:A:H5'	1.10	0.88
2:J:248:A:N6	2:J:249:A:H62	1.64	0.88
2:J:166:A:C2	2:J:167:A:C5	2.62	0.88
2:J:67:A:C2'	2:J:68:A:H5'	2.04	0.88
5:M:449:U:C2'	5:M:450:U:C5'	2.49	0.88
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
4:L:496:U:H2'	4:L:497:U:H6	1.37	0.88
3:K:156:A:O2'	3:K:157:A:C4'	2.22	0.88
6:N:460:U:C2	6:N:461:U:C5	2.62	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
4:L:806:U:H2'	4:L:807:U:H6	1.37	0.88
4:L:672:U:C2	4:L:673:U:C5	2.62	0.88
1:I:251:A:H2'	1:I:252:A:C8	2.09	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
2:J:229:A:C2	2:J:230:A:C4	2.61	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: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
5:M:501:U:C2'	5:M:502:U:C6	2.57	0.88
2:J:216:A:N1	2:J:217:A:N6	2.21	0.88
1:I:323:A:C2	1:I:324:A:C4	2.61	0.88
3:K:165:A:HO2'	3:K:166:A:H5'	1.30	0.88
3:K:96:A:C2'	3:K:97:A:H5'	2.02	0.88
1:I:179:A:H61	1:I:180:A:N6	1.65	0.88
4:L:722:U:H2'	4:L:723:U:H6	1.39	0.88
1:I:240:A:O2'	1:I:241:A:H5'	1.72	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
2:J:165:A:C4	2:J:166:A:N7	2.41	0.88
5:M:447:U:H2'	5:M:448:U:H6	1.39	0.87
4:L:533:U:C2'	4:L:534:U:H5'	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:105:A:C4	3:K:106:A:N7	2.42	0.87
1:I:84:A:C2	1:I:85:A:C5	2.62	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
6:N:281:U:C2'	6:N:282:U:C5'	2.52	0.87
4:L:709:U:O2'	4:L:710:U:H5'	1.74	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
6:N:480:U:O2'	6:N:481:U:H5'	1.73	0.87
1:I:361:A:C2'	1:I:362:A:H5'	2.03	0.87
3:K:181:A:C2	3:K:182:A:C4	2.61	0.87
5:M:297:U:O2'	5:M:298:U:H5'	1.74	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: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
4:L:810:U:C2	4:L:811:U:C6	2.63	0.87
1:I:122:A:C2'	1:I:123:A:C5'	2.51	0.87
4:L:718:U:C2'	4:L:719:U:C5'	2.52	0.87
1:I:281:A:N6	1:I:282:A:H62	1.69	0.87
2:J:182:A:C6	2:J:183:A:C6	2.62	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
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
5:M:319:U:C2'	5:M:320:U:O4'	2.20	0.87
4:L:501:U:O2	4:L:502:U:C6	2.28	0.87
6:N:462:U:C2'	6:N:463:U:H5'	2.03	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
1:I:246:A:HO2'	1:I:247:A:H5'	1.33	0.87
4:L:576:U:C2	4:L:577:U:C6	2.61	0.87
3:K:211:A:H2'	3:K:212:A:C8	2.09	0.87
2:J:135:A:N6	2:J:136:A:H62	1.72	0.87
2:J:176:A:HO2'	2:J:177:A:H5'	1.40	0.87
2:J:89:A:C2	2:J:90:A:C8	2.61	0.87
1:I:306:A:C2	1:I:307:A:C8	2.62	0.87
3:K:114:A:H2'	3:K:115:A:H8	1.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:755:U:HO2'	4:L:756:U:H5'	1.10	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
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
2:J:206:A:C2	2:J:207:A:C4	2.62	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
4:L:557:U:C4	4:L:558:U:C5	2.62	0.87
6:N:485:U:O2'	6:N:486:U:C5'	2.22	0.87
2:J:241:A:C3'	2:J:242:A:P	2.61	0.87
1:I:299:A:O2'	1:I:300:A:C5'	2.22	0.87
3:K:45:A:H2'	3:K:46:A:O4'	1.74	0.87
2:J:191:A:C2'	2:J:192:A:H5'	2.05	0.87
6:N:384:U:O2'	6:N:385:U:H5'	1.74	0.87
1:I:56:A:C2	1:I:57:A:C4	2.63	0.87
4:L:799:U:O2'	4:L:800:U:C5'	2.21	0.87
1:I:207:A:O2'	1:I:208:A:C5'	2.20	0.87
4:L:559:U:C2	4:L:560:U:C5	2.62	0.87
2:J:145:A:C6	2:J:146:A:N7	2.43	0.87
2:J:79:A:H2'	2:J:80:A:C5'	2.03	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:12:A:O2'	1:I:13:A:C5'	2.21	0.87
4:L:767:U:O2	4:L:768:U:C5	2.27	0.87
4:L:638:U:HO2'	4:L:639:U:H5'	1.07	0.87
4:L:724:U:C3'	4:L:725:U:H5'	1.85	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
4:L:612:U:HO2'	4:L:613:U:H5'	1.38	0.87
1:I:291:A:C2'	1:I:292:A:C5'	2.53	0.87
5:M:393:U:C2	5:M:394:U:C5	2.63	0.87
2:J:223:A:C2'	2:J:224:A:C5'	2.49	0.87
1:I:55:A:C2	1:I:56:A:C8	2.62	0.87
1:I:8:A:N6	1:I:9:A:H62	1.73	0.87
6:N:281:U:HO2'	6:N:282:U:H5'	1.36	0.87
2:J:205:A:HO2'	2:J:206:A:H5'	1.09	0.87
5:M:348:U:C4	5:M:349:U:C4	2.63	0.87
1:I:255:A:O2'	1:I:256:A:C5'	2.20	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:572:U:HO2'	4:L:573:U:H5'	1.34	0.87
4:L:417:U:O2'	4:L:418:U:H5'	1.74	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
1:I:299:A:C2'	1:I:300:A:H5'	2.04	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
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
2:J:214:A:C2	2:J:215:A:N9	2.43	0.87
6:N:430:U:C2	6:N:431:U:C6	2.63	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
4:L:722:U:O2'	4:L:723:U:O5'	1.91	0.87
3:K:210:A:O2'	3:K:211:A:C5'	2.22	0.87
3:K:46:A:O3'	3:K:47:A:C5'	2.22	0.87
2:J:129:A:H2'	2:J:130:A:O4'	1.73	0.87
2:J:22:A:O2'	2:J:23:A:H5'	1.75	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
4:L:770:U:C4	4:L:771:U:C4	2.62	0.87
1:I:267:A:C2	1:I:268:A:C6	2.62	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
6:N:489:U:O2'	6:N:490:U:P	2.33	0.87
3:K:38:A:O2'	3:K:39:A:C5'	2.22	0.87
5:M:520:U:C2'	5:M:521:U:H5'	2.02	0.86
1:I:304:A:O2'	1:I:305:A:H5'	1.74	0.86
4:L:500:U:HO2'	4:L:501:U:H5'	1.34	0.86
3:K:107:A:HO2'	3:K:108:A:H5'	1.11	0.86
3:K:167:A:C2'	3:K:168:A:H5'	2.04	0.86
4:L:766:U:C2'	4:L:767:U:H6	1.88	0.86
3:K:251:A:H3'	3:K:252:A:OP2	1.73	0.86
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
4:L:548:U:H2'	4:L:549:U:C6	2.10	0.86
5:M:453:U:O2'	5:M:454:U:H5'	1.75	0.86
5:M:462:U:H2'	5:M:463:U:H6	1.40	0.86
5:M:515:U:HO2'	5:M:516:U:H5'	1.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:223:A:H2'	2:J:224:A:H5'	1.49	0.86
1:I:330:A:C2'	1:I:331:A:C5'	2.53	0.86
3:K:168:A:H2'	3:K:169:A:C4'	2.06	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:172:A:HO2'	1:I:173:A:H5'	1.35	0.86
4:L:504:U:C2'	4:L:505:U:H5'	2.04	0.86
1:I:62:A:C2'	1:I:63:A:C5'	2.53	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:250:A:C4	1:I:251:A:C8	2.64	0.86
2:J:124:A:N3	2:J:125:A:C8	2.43	0.86
2:J:171:A:C6	2:J:172:A:N6	2.43	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: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: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:157:A:HO2'	1:I:158:A:H5'	1.38	0.86
4:L:694:U:HO2'	4:L:695:U:H5'	1.36	0.86
4:L:718:U:C2'	4:L:719:U:H5'	2.04	0.86
1:I:254:A:O2'	1:I:255:A:C5'	2.20	0.86
4:L:544:U:C4	4:L:545:U:C5	2.63	0.86
2:J:165:A:C2	2:J:166:A:C4	2.63	0.86
3:K:198:A:H2'	3:K:199:A:C8	2.11	0.86
6:N:302:U:H2'	6:N:303:U:C6	2.10	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
5:M:323:U:O2'	5:M:324:U:O4'	1.84	0.86
3:K:154:A:N6	3:K:155:A:N6	2.24	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
1:I:40:A:HO3'	1:I:41:A:P	1.90	0.86
4:L:746:U:O2'	4:L:747:U:O5'	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:496:U:C2'	6:N:497:U:H5'	2.05	0.86
2:J:132:A:O2'	2:J:133:A:C5'	2.23	0.86
2:J:72:A:O2'	2:J:73:A:C5'	2.23	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: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
5:M:349:U:C2	5:M:350:U:C6	2.63	0.86
2:J:233:A:O2'	2:J:234:A:C5'	2.23	0.86
2:J:168:A:O3'	2:J:169:A:OP2	1.92	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
5:M:465:U:N3	5:M:466:U:C5	2.43	0.86
5:M:464:U:H2'	5:M:465:U:O5'	1.75	0.86
1:I:306:A:C2'	1:I:307:A:C5'	2.52	0.86
3:K:101:A:C5	3:K:102:A:N7	2.44	0.86
3:K:76:A:C2'	3:K:77:A:H5'	2.05	0.86
6:N:379:U:H2'	6:N:380:U:C5'	2.04	0.86
1:I:73:A:H2'	1:I:74:A:C8	2.11	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
3:K:254:A:C2'	3:K:255:A:H5'	2.05	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
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
6:N:486:U:H2'	6:N:487:U:H6	1.37	0.86
3:K:46:A:H2'	3:K:47:A:O4'	1.76	0.86
3:K:188:A:O2'	3:K:189:A:H5'	1.74	0.86
2:J:29:A:C2	2:J:30:A:N9	2.43	0.86
5:M:315:U:O2'	5:M:316:U:H5'	1.76	0.86
3:K:100:A:H2'	3:K:101:A:C5'	2.05	0.86
6:N:417:U:H2'	6:N:418:U:H6	1.41	0.86
1:I:4:A:C6	1:I:5:A:N6	2.44	0.86
4:L:739:U:O2	4:L:740:U:C6	2.28	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:682:U:H2'	4:L:683:U:H6	1.39	0.86
1:I:236:A:N3	1:I:237:A:C8	2.44	0.86
1:I:252:A:HO2'	1:I:253:A:H5'	1.33	0.86
1:I:358:A:C2	1:I:359:A:N7	2.44	0.86
4:L:435:U:O2'	4:L:436:U:H5'	1.76	0.86
1:I:403:A:O2'	1:I:404:A:C5'	2.24	0.86
4:L:448:U:C2	4:L:449:U:H5	1.92	0.86
5:M:290:U:C2'	5:M:291:U:H5'	2.05	0.86
2:J:117:A:H2	2:J:118:A:C4	1.89	0.86
2:J:43:A:C4	2:J:44:A:C8	2.63	0.86
5:M:512:U:H2'	5:M:513:U:H6	1.39	0.86
5:M:316:U:N3	5:M:317:U:C5	2.44	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
3:K:82:A:O2'	3:K:83:A:H5'	1.72	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
4:L:547:U:O4	4:L:548:U:O4	1.93	0.86
6:N:496:U:C2'	6:N:497:U:O4'	2.24	0.86
4:L:463:U:C2'	4:L:464:U:H5'	2.06	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
4:L:722:U:N1	4:L:723:U:H5	1.74	0.86
4:L:722:U:C2'	4:L:723:U:H5	1.88	0.86
2:J:202:A:C2'	2:J:203:A:C5'	2.54	0.86
1:I:277:A:C4	1:I:278:A:N7	2.44	0.86
5:M:288:U:H2'	5:M:289:U:H6	1.40	0.86
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
5:M:410:U:N3	5:M:411:U:C5	2.44	0.85
5:M:336:U:H2'	5:M:337:U:C5'	1.97	0.85
1:I:329:A:H2'	1:I:330:A:O4'	1.76	0.85
3:K:57:A:H2'	3:K:58:A:H8	1.40	0.85
6:N:436:U:H2'	6:N:437:U:H6	1.38	0.85
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
4:L:683:U:H2'	4:L:684:U:H6	1.41	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:451:U:H3'	4:L:452:U:OP2	1.74	0.85
2:J:103:A:C2'	2:J:104:A:H5'	2.06	0.85
5:M:488:U:H2'	5:M:489:U:H6	1.35	0.85
1:I:323:A:HO2'	1:I:324:A:H5'	1.04	0.85
3:K:96:A:C2'	3:K:97:A:O4'	2.23	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
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
1:I:192:A:O2'	1:I:193:A:H5'	1.76	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: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
1:I:404:A:N6	1:I:405:A:N6	2.25	0.85
1:I:314:A:O2'	1:I:315:A:C5'	2.24	0.85
4:L:502:U:C2	4:L:503:U:C5	2.64	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
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
4:L:660:U:C2'	4:L:661:U:H5'	2.06	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
1:I:376:A:N6	1:I:377:A:H62	1.50	0.85
4:L:422:U:H2'	4:L:423:U:C6	2.10	0.85
1:I:315:A:C2'	1:I:316:A:H5'	2.07	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
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
4:L:768:U:C2'	4:L:769:U:C5'	2.53	0.85
1:I:101:A:C2	1:I:102:A:N6	2.41	0.85
4:L:693:U:O4	4:L:694:U:O4	1.92	0.85
2:J:204:A:C6	2:J:205:A:C5	2.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:421:U:C2'	4:L:422:U:O4'	2.24	0.85
2:J:159:A:N6	2:J:160:A:N6	2.25	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
1:I:388:A:C2'	1:I:389:A:O4'	2.24	0.85
2:J:61:A:O2'	2:J:62:A:P	2.34	0.85
1:I:324:A:C2	1:I:325:A:C8	2.65	0.85
4:L:499:U:C2	4:L:500:U:C5	2.65	0.85
6:N:362:U:C2'	6:N:363:U:H5'	2.07	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
4:L:760:U:C2'	4:L:761:U:H5'	2.01	0.85
1:I:109:A:N3	1:I:110:A:N9	2.23	0.85
4:L:595:U:C2'	4:L:596:U:C5'	2.55	0.85
6:N:485:U:O3'	6:N:486:U:O5'	1.94	0.85
4:L:422:U:H2'	4:L:423:U:H6	1.38	0.85
1:I:295:A:HO2'	1:I:296:A:H5'	1.37	0.85
3:K:236:A:O2'	3:K:237:A:H5'	1.74	0.85
2:J:117:A:H2'	2:J:118:A:C8	2.11	0.85
2:J:98:A:H2'	2:J:99:A:C8	2.11	0.85
5:M:432:U:HO2'	5:M:433:U:H5'	1.32	0.85
5:M:524:U:N3	5:M:525:U:C5	2.45	0.85
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:693:U:N3	4:L:694:U:C5	2.44	0.85
6:N:489:U:O2'	6:N:490:U:H5'	1.77	0.85
4:L:461:U:H2'	4:L:462:U:C6	2.12	0.85
3:K:31:A:C6	3:K:32:A:N6	2.45	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:40:A:H2'	2:J:41:A:H8	1.41	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: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
4:L:811:U:N3	4:L:812:U:C4	2.44	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:229:A:O2'	2:J:230:A:O4'	1.95	0.85
2:J:69:A:C3'	2:J:70:A:H5'	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:494:U:HO2'	5:M:495:U:H5'	1.39	0.85
1:I:317:A:HO2'	1:I:318:A:H5'	0.92	0.85
3:K:154:A:C6	3:K:155:A:C5	2.65	0.85
6:N:406:U:C4	6:N:407:U:C4	2.64	0.85
4:L:811:U:O2'	4:L:812:U:O4'	1.94	0.85
4:L:671:U:H2'	4:L:672:U:H6	1.40	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
3:K:202:A:H2'	3:K:203:A:C8	2.12	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
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:507:U:HO2'	4:L:508:U:H5'	1.06	0.85
3:K:132:A:C2'	3:K:133:A:H5'	2.07	0.85
3:K:95:A:O2'	3:K:96:A:C5'	2.20	0.85
6:N:468:U:C2	6:N:469:U:C5	2.65	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
4:L:639:U:C2'	4:L:640:U:H5'	2.07	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
4:L:565:U:O2'	4:L:566:U:H5'	1.77	0.85
6:N:486:U:H2'	6:N:487:U:O4'	1.77	0.85
2:J:237:A:N3	2:J:238:A:C8	2.45	0.85
6:N:331:U:H2'	6:N:332:U:H6	1.39	0.85
3:K:38:A:N3	3:K:39:A:C8	2.45	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:328:A:H2'	1:I:329: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
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
2:J:204:A:H2'	2:J:205:A:H8	1.41	0.85
1:I:239:A:C2'	1:I:240:A:H5'	2.07	0.85
1:I:30:A:O2'	1:I:31:A:C5'	2.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:388:A:O2'	1:I:389:A:O4'	1.94	0.85
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
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
1:I:338:A:N6	1:I:339:A:N6	2.24	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
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
1:I:10:A:O2'	1:I:11:A:H5'	1.76	0.84
4:L:815:U:H2'	4:L:816:U:C5'	2.07	0.84
4:L:586:U:H2'	4:L:587:U:H6	1.42	0.84
6:N:524:U:O3'	6:N:525:U:OP2	1.91	0.84
3:K:49:A:O2'	3:K:50:A:P	2.35	0.84
2:J:175:A:H2'	2:J:176:A:H8	1.42	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:218:A:HO2'	2:J:219:A:H5'	1.03	0.84
4:L:515:U:H2'	4:L:516:U:C6	2.12	0.84
3:K:114:A:N3	3:K:115:A:C8	2.45	0.84
6:N:450:U:H2'	6:N:451:U:C6	2.11	0.84
4:L:763:U:C2'	4:L:764:U:O4'	2.25	0.84
5:M:350:U:HO2'	5:M:351:U:H5'	1.05	0.84
1:I:236:A:C2'	1:I:237:A:H5'	2.06	0.84
4:L:549:U:C2	4:L:550:U:C6	2.65	0.84
4:L:550:U:HO2'	4:L:551:U:H5'	1.03	0.84
4:L:435:U:H2'	4:L:436:U:C6	2.12	0.84
5:M:287:U:C2	5:M:288:U:C6	2.65	0.84
2:J:182:A:C6	2:J:183:A:C5	2.65	0.84
4:L:478:U:C2'	4:L:479:U:H5'	2.07	0.84
3:K:135:A:C2	3:K:136:A:C5	2.66	0.84
6:N:436:U:H2'	6:N:437:U:C6	2.12	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:566:U:C2'	4:L:567:U:C5'	2.54	0.84
3:K:203:A:O2'	3:K:204:A:O5'	1.93	0.84
2:J:136:A:H2'	2:J:137:A:H8	1.38	0.84
5:M:395:U:C2'	5:M:396:U:C5'	2.55	0.84
5:M:331:U:C2'	5:M:332:U:C5'	2.56	0.84
3:K:147:A:O2'	3:K:148:A:P	2.34	0.84
3:K:88:A:O2'	3:K:89:A:C5'	2.25	0.84
1:I:162:A:C6	1:I:163:A:C5	2.64	0.84
4:L:722:U:H2'	4:L:723:U:H5	1.36	0.84
4:L:588:U:HO2'	4:L:589:U:H5'	1.05	0.84
1:I:376:A:N6	1:I:377:A:H61	1.71	0.84
5:M:288:U:O2'	5:M:289:U:H5'	1.77	0.84
2:J:92:A:H2'	2:J:93:A:C8	2.13	0.84
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
4:L:525:U:O2'	4:L:526:U:C5'	2.21	0.84
3:K:105:A:C4	3:K:106:A:C8	2.66	0.84
3:K:99:A:C2	3:K:100:A:C4	2.65	0.84
1:I:20:A:H2'	1:I:21:A:C8	2.13	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
3:K:253:A:C3'	3:K:254:A:H5'	2.03	0.84
1:I:231:A:N6	1:I:232:A:N6	2.26	0.84
4:L:584:U:H2'	4:L:585:U:H6	1.42	0.84
1:I:375:A:N3	1:I:376:A:C8	2.45	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
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: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
5:M:406:U:C2	5:M:407:U:C6	2.65	0.84
5:M:406:U:C2'	5:M:407:U:O4'	2.25	0.84
3:K:164:A:C4	3:K:165:A:C8	2.65	0.84
6:N:420:U:C2'	6:N:421:U:C5'	2.55	0.84
1:I:48:A:C2'	1:I:49:A:C5'	2.55	0.84
4:L:692:U:H2'	4:L:693:U:H6	1.41	0.84
2:J:209:A:C2'	2:J:210:A:H5'	2.08	0.84
4:L:622:U:H2'	4:L:623:U:C5'	2.07	0.84
1:I:376:A:C2	1:I:377:A:N7	2.45	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:436:U:H2'	4:L:437:U:O4'	1.77	0.84
5:M:310:U:C2'	5:M:311:U:H5'	2.07	0.84
6:N:473:U:H2'	6:N:474:U:O4'	1.77	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
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
6:N:279:U:H3'	6:N:280:U:OP2	1.77	0.84
4:L:646:U:HO2'	4:L:647:U:H5'	1.39	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
3:K:203:A:C2	3:K:204:A:C6	2.66	0.84
2:J:113:A:O2'	2:J:114:A:H5'	1.78	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
1:I:303:A:C2	1:I:304:A:C8	2.65	0.84
6:N:384:U:H2'	6:N:385:U:H6	1.41	0.84
1:I:79:A:C5	1:I:80:A:N7	2.45	0.84
4:L:682:U:C2'	4:L:683:U:H5'	2.07	0.84
6:N:489:U:O2	6:N:490:U:C6	2.31	0.84
2:J:57:A:C2	2:J:58:A:C8	2.65	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
5:M:335:U:O5'	5:M:336:U:OP2	1.96	0.84
6:N:477:U:O2'	6:N:478:U:H5'	1.78	0.84
1:I:136:A:C2	1:I:137:A:C4	2.66	0.84
4:L:711:U:N3	4:L:712:U:C4	2.46	0.84
2:J:205:A:C4	2:J:206:A:C8	2.66	0.84
4:L:537:U:H2'	4:L:538:U:O4'	1.77	0.84
4:L:437:U:C2	4:L:438:U:C5	2.65	0.84
2:J:106:A:C2'	2:J:107:A:H5'	2.06	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
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
5:M:318:U:H2'	5:M:319:U:C5'	2.06	0.84
3:K:142:A:N3	3:K:143:A:C8	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:601:U:H2'	4:L:602:U:H6	1.41	0.84
2:J:102:A:H2'	2:J:103:A:C8	2.13	0.83
5:M:432:U:C2'	5:M:433:U:H5'	2.08	0.83
5:M:496:U:HO2'	5:M:497:U:H5'	1.39	0.83
5:M:319:U:O2'	5:M:320:U:C4'	2.26	0.83
6:N:474:U:C2'	6:N:475:U:C5'	2.55	0.83
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
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
1:I:256:A:N6	1:I:257:A:N6	2.26	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
6:N:339:U:H2'	6:N:340:U:C6	2.13	0.83
5:M:335:U:C6	5:M:336:U:H5	1.95	0.83
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
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
4:L:603:U:C2'	4:L:604:U:H5'	2.08	0.83
3:K:42:A:O2'	3:K:43:A:C5'	2.24	0.83
2:J:123:A:H2'	2:J:124:A:O4'	1.77	0.83
2:J:42:A:C2'	2:J:43:A:C5'	2.56	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
4:L:508:U:C2	4:L:509:U:C5	2.65	0.83
3:K:121:A:N6	3:K:122:A:N6	2.27	0.83
6:N:424:U:C2'	6:N:425:U:C6	2.56	0.83
1:I:74:A:C5	1:I:75:A:N7	2.47	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
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
4:L:711:U:C2'	4:L:712:U:H6	1.92	0.83
1:I:250:A:H2'	1:I:251:A:H8	1.39	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:310:U:H2'	6:N:311:U:C6	2.13	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
1:I:261:A:C2'	1:I:262:A:O4'	2.27	0.83
4:L:578:U:HO2'	4:L:579:U:H5'	1.38	0.83
4:L:438:U:N3	4:L:439:U:C4	2.46	0.83
3:K:203:A:C2	3:K:204:A:N7	2.41	0.83
1:I:388:A:H2'	1:I:389:A:O4'	1.77	0.83
2:J:144:A:C2	5:M:410:U:O2	2.31	0.83
5:M:395:U:HO2'	5:M:396:U:H5'	1.02	0.83
5:M:399:U:HO2'	5:M:400:U:H5'	1.40	0.83
2:J:219:A:C2	2:J:220:A:C8	2.66	0.83
1:I:321:A:C2'	1:I:322:A:H5'	2.09	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:71:A:H2'	1:I:72:A:O4'	1.78	0.83
4:L:811:U:O2'	4:L:812:U:H5'	1.73	0.83
4:L:717:U:H2'	4:L:718:U:C6	2.13	0.83
4:L:592:U:O2'	4:L:593:U:H5'	1.78	0.83
2:J:156:A:C2'	2:J:157:A:H5'	2.06	0.83
4:L:452:U:O2'	4:L:453:U:H5'	1.77	0.83
2:J:153:A:C2'	2:J:154:A:C5'	2.57	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
3:K:90:A:C2'	3:K:91:A:C5'	2.55	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: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
1:I:97:A:C2'	1:I:98:A:H5'	2.08	0.83
4:L:766:U:C2'	4:L:767:U:C6	2.59	0.83
1:I:119:A:H2'	1:I:120:A:C5'	2.01	0.83
4:L:715:U:O2	4:L:716:U:N1	2.12	0.83
4:L:464:U:O2'	4:L:465:U:C5'	2.22	0.83
2:J:160:A:C2	2:J:161:A:C4	2.66	0.83
2:J:142:A:N6	2:J:143:A:H62	1.75	0.83
2:J:75:A:C2'	2:J:76:A:H5'	2.08	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
6:N:359:U:O2'	6:N:360:U:H5'	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:442:U:C2'	6:N:443:U:C5'	2.55	0.83
1:I:67:A:C6	1:I:68:A:C5	2.66	0.83
1:I:87:A:HO2'	1:I:88:A:H5'	1.42	0.83
4:L:715:U:C2	4:L:716:U:C6	2.67	0.83
4:L:600:U:H2'	4:L:601:U:H6	1.44	0.83
1:I:358:A:O2'	1:I:359:A:H5'	1.78	0.83
4:L:435:U:C2'	4:L:436:U:O4'	2.26	0.83
3:K:213:A:H2'	3:K:214:A:C8	2.13	0.83
5:M:454:U:C4	5:M:455:U:C4	2.66	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
6:N:278:U:C2'	6:N:279:U:H5'	2.09	0.83
4:L:571:U:C2	4:L:572:U:C5	2.67	0.83
3:K:33:A:O2'	3:K:34:A:H5'	1.79	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:142:A:C2	3:K:143:A:C5	2.66	0.83
3:K:80:A:O2'	3:K:81:A:H5'	1.79	0.83
6:N:477:U:C2'	6:N:478:U:H5'	2.09	0.83
4:L:777:U:C2	4:L:778:U:C6	2.67	0.83
1:I:156:A:N6	1:I:157:A:N6	2.26	0.83
6:N:321:U:H2'	6:N:322:U:C6	2.12	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
5:M:435:U:HO2'	5:M:436:U:H5'	1.39	0.83
2:J:214:A:C2	2:J:215:A:C8	2.67	0.83
5:M:323:U:C2'	5:M:324:U:C4'	2.26	0.83
6:N:449:U:H2'	6:N:450:U:H6	1.44	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
1:I:96:A:C4	1:I:97:A:C8	2.66	0.83
4:L:811:U:C2'	4:L:812:U:H6	1.91	0.83
1:I:101:A:N1	1:I:102:A:C6	2.41	0.83
1:I:138:A:HO2'	1:I:139:A:H5'	1.41	0.83
1:I:192:A:C2'	1:I:193:A:H5'	2.09	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
5:M:348:U:N3	5:M:349:U:C5	2.45	0.83
4:L:538:U:H2'	4:L:539:U:C6	2.13	0.83
1:I:202:A:HO2'	1:I:203:A:H5'	1.04	0.83
4:L:443:U:O2'	4:L:444:U:H5'	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:70:A:C2	2:J:71:A:N9	2.47	0.82
5:M:447:U:C2	5:M:448:U:C5	2.67	0.82
1:I:317:A:C2'	1:I:318:A:H5'	2.08	0.82
3:K:144:A:H2'	3:K:145:A:C8	2.13	0.82
6:N:368:U:HO2'	6:N:369:U:H5'	1.43	0.82
1:I:86:A:C6	1:I:87:A:C6	2.67	0.82
4:L:743:U:C2'	4:L:744:U:C5'	2.57	0.82
6:N:281:U:O2'	6:N:282:U:C5'	2.19	0.82
4:L:660:U:O2'	4:L:661:U:C5'	2.27	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
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
3:K:5:A:O2'	3:K:6:A:H5'	1.77	0.82
5:M:304:U:C2	5:M:305:U:C5	2.67	0.82
3:K:49:A:C2	3:K:50:A:C5	2.67	0.82
5:M:453:U:C2'	5:M:454:U:H6	1.91	0.82
5:M:458:U:HO2'	5:M:459:U:H5'	1.02	0.82
1:I:306:A:C2	1:I:307:A:N9	2.47	0.82
3:K:64:A:C2'	3:K:65:A:C5'	2.56	0.82
6:N:443:U:N3	6:N:444:U:C5	2.46	0.82
4:L:739:U:C2	4:L:740:U:C6	2.67	0.82
4:L:723:U:C5	4:L:724:U:H5	1.93	0.82
5:M:350:U:C2	5:M:351:U:C6	2.67	0.82
1:I:270:A:H2'	1:I:271:A:C4'	2.09	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:212:A:C6	3:K:213:A:C6	2.66	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
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
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
1:I:306:A:H2'	1:I:307:A:O5'	1.79	0.82
3:K:135:A:C2	3:K:136:A:N7	2.47	0.82
1:I:82:A:C5	1:I:83:A:N7	2.47	0.82
4:L:757:U:C4	4:L:758:U:C4	2.67	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:N:497:U:H2'	6:N:498:U:C4'	2.09	0.82
1:I:389:A:H2'	1:I:390:A:H8	1.44	0.82
2:J:182:A:C4	2:J:183:A:N7	2.47	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
4:L:497:U:H2'	4:L:498:U:C4'	2.08	0.82
1:I:86:A:C4	1:I:87:A:C8	2.68	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
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
4:L:538:U:C2	4:L:539:U:C5	2.67	0.82
1:I:364:A:HO2'	1:I:365:A:H5'	1.44	0.82
1:I:296:A:H2'	1:I:297:A:O4'	1.78	0.82
6:N:303:U:H2'	6:N:304:U:C6	2.13	0.82
2:J:190:A:N6	2:J:191:A:N6	2.28	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
5:M:510:U:C2'	5:M:511:U:C5'	2.51	0.82
1:I:334:A:O2'	1:I:335:A:H5'	1.79	0.82
3:K:90:A:HO2'	3:K:91:A:H5'	1.04	0.82
6:N:427:U:C2'	6:N:428:U:C5'	2.57	0.82
4:L:778:U:C2	4:L:779:U:C6	2.67	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
4:L:586:U:C4	4:L:587:U:C4	2.67	0.82
2:J:69:A:HO2'	2:J:70:A:H5'	1.42	0.82
5:M:450:U:C2	5:M:451:U:C5	2.66	0.82
2:J:224:A:O2'	2:J:225:A:H5'	1.78	0.82
5:M:323:U:H2'	5:M:324:U:H6	1.43	0.82
3:K:152:A:N6	3:K:153:A:H61	1.75	0.82
6:N:403:U:HO2'	6:N:404:U:H5'	1.40	0.82
6:N:431:U:HO2'	6:N:432:U:H5'	1.00	0.82
1:I:70:A:C2'	1:I:71:A:O4'	2.27	0.82
4:L:803:U:C2	4:L:804:U:C5	2.67	0.82
6:N:277:U:H2'	6:N:278:U:C5'	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:705:U:C2	4:L:706:U:C6	2.66	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
4:L:484:U:O2'	4:L:485:U:C5'	2.22	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
4:L:746:U:C2'	4:L:747:U:O5'	2.25	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
1:I:31:A:C2	1:I:32:A:N7	2.47	0.82
2:J:234:A:O2'	2:J:235:A:C5'	2.23	0.82
1:I:404:A:H2'	1:I:405:A:C8	2.14	0.82
2:J:254:A:HO2'	2:J:255:A:H5'	1.44	0.82
2:J:192:A:O2'	2:J:193:A:C5'	2.24	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
5:M:436:U:O2'	5:M:437:U:H5'	1.80	0.82
4:L:495:U:H2'	4:L:496:U:C6	2.14	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
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
6:N:280:U:HO2'	6:N:281:U:H5'	1.45	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
4:L:583:U:N3	4:L:584:U:C5	2.46	0.82
3:K:29:A:O2'	3:K:30:A:H5'	1.80	0.82
2:J:144:A:N3	2:J:145:A:C8	2.48	0.82
2:J:38:A:C2	2:J:39:A:C8	2.68	0.82
5:M:526:U:H2'	5:M:527:U:C5'	2.09	0.82
3:K:100:A:C2'	3:K:101:A:O4'	2.26	0.82
3:K:92:A:C2'	3:K:93:A:C5'	2.56	0.82
1:I:17:A:C2'	1:I:18:A:H5'	2.08	0.82
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
4:L:722:U:C2'	4:L:723:U:H6	1.87	0.82
6:N:305:U:C2'	6:N:306:U:C6	2.63	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:195:A:N6	3:K:196:A:N6	2.27	0.82
5:M:299:U:O2'	5:M:300:U:H5'	1.78	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
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
2:J:202:A:C2	2:J:203:A:N9	2.48	0.82
6:N:497:U:C2'	6:N:498:U:O4'	2.27	0.82
1:I:358:A:O2'	1:I:359:A:C5'	2.26	0.82
2:J:83:A:C2	2:J:84:A:N7	2.48	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
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
3:K:105:A:C2'	3:K:106:A:O4'	2.28	0.81
6:N:471:U:O2'	6:N:472:U:C5'	2.27	0.81
1:I:94:A:O2'	1:I:95:A:C5'	2.28	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
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
1:I:31:A:C2	1:I:32:A:C5	2.68	0.81
3:K:234:A:N6	3:K:235:A:H62	1.73	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
5:M:386:U:H2'	5:M:387:U:H6	1.45	0.81
2:J:137:A:C2	5:M:417:U:O2	2.32	0.81
6:N:462:U:HO2'	6:N:463:U:H5'	1.46	0.81
1:I:49:A:O2'	1:I:50:A:C5'	2.24	0.81
4:L:743:U:H2'	4:L:744:U:O5'	1.79	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
1:I:179:A:C6	1:I:180:A:C6	2.68	0.81
4:L:696:U:C2	4:L:697:U:C5	2.68	0.81
1:I:252:A:C2	1:I:253:A:C4	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:165:A:H2'	2:J:166:A:C8	2.15	0.81
6:N:312:U:H2'	6:N:313:U:C6	2.15	0.81
5:M:373:U:H2'	5:M:374:U:C5'	2.10	0.81
5:M:460:U:C2	5:M:461:U:C5	2.68	0.81
2:J:62:A:C2'	2:J:63:A:C5'	2.59	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
5:M:323:U:O2'	5:M:324:U:H4'	1.79	0.81
1:I:334:A:C2'	1:I:335:A:H5'	2.09	0.81
3:K:105:A:C2	3:K:106:A:C5	2.68	0.81
3:K:154:A:O2'	3:K:155:A:H5'	1.78	0.81
3:K:168:A:C3'	3:K:169:A:C5'	2.34	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
3:K:136:A:H2'	3:K:137:A:O5'	1.77	0.81
3:K:168:A:C2'	3:K:169:A:C4'	2.58	0.81
6:N:388:U:O2'	6:N:389:U:H5'	1.79	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
4:L:754:U:C2	4:L:755:U:C6	2.68	0.81
4:L:754:U:H2'	4:L:755:U:C6	2.15	0.81
4:L:805:U:H2'	4:L:806:U:H6	1.43	0.81
1:I:20:A:O2'	1:I:21:A:H5'	1.79	0.81
4:L:812:U:C2	4:L:813:U:C6	2.67	0.81
1:I:191:A:C2'	1:I:192:A:H5'	2.10	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
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
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
1:I:253:A:C6	1:I:254:A:N6	2.48	0.81
4:L:612:U:C2'	4:L:613:U:H5'	2.10	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
3:K:237:A:H2'	3:K:238:A:H8	1.41	0.81
6:N:525:U:H2'	6:N:526:U:H6	1.45	0.81
2:J:143:A:C2	2:J:144:A:C5	2.69	0.81
2:J:42:A:H2'	2:J:43:A:H8	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:377:U:H2'	5:M:378:U:C6	2.15	0.81
5:M:323:U:C2	5:M:324:U:C6	2.68	0.81
3:K:136:A:C2	3:K:137:A:N9	2.48	0.81
1:I:55:A:N3	1:I:56:A:C8	2.49	0.81
4:L:802:U:H2'	4:L:803:U:H6	1.46	0.81
3:K:250:A:C2'	3:K:251:A:C5'	2.59	0.81
1:I:113:A:H2'	1:I:114:A:O4'	1.80	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
5:M:348:U:C2'	5:M:349:U:H6	1.92	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
4:L:567:U:H2'	4:L:568:U:O5'	1.81	0.81
2:J:247:A:O2'	2:J:248:A:H5'	1.79	0.81
4:L:439:U:O2'	4:L:440:U:H5'	1.80	0.81
6:N:329:U:H2'	6:N:330:U:H6	1.40	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
5:M:449:U:HO2'	5:M:450:U:H5'	1.02	0.81
4:L:472:U:O2'	4:L:473:U:P	2.38	0.81
3:K:136:A:C2	3:K:137:A:C4	2.69	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:255:A:H2'	1:I:256:A:C5'	2.11	0.81
4:L:576:U:HO2'	4:L:577:U:H5'	1.02	0.81
4:L:464:U:C2'	4:L:465:U:H5'	2.10	0.81
1:I:33:A:C2'	1:I:34:A:C5'	2.58	0.81
3:K:209:A:C6	3:K:210:A:N6	2.49	0.81
3:K:45:A:C2'	3:K:46:A:O4'	2.28	0.81
2:J:107:A:HO2'	2:J:108:A:H5'	1.41	0.81
2:J:83:A:O2'	2:J:84:A:O5'	1.97	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
3:K:105:A:O2'	3:K:106:A:O4'	1.98	0.81
6:N:440:U:C2	6:N:441:U:C6	2.68	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
1:I:62:A:HO2'	1:I:63:A:H5'	1.44	0.81
4:L:740:U:C2	4:L:741:U:C6	2.68	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:783:U:O2'	4:L:784:U:H5'	1.80	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
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
2:J:165:A:N1	2:J:166:A:C6	2.49	0.81
2:J:104:A:HO2'	2:J:105:A:H5'	1.43	0.81
5:M:458:U:H2'	5:M:459:U:O4'	1.80	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
1:I:181:A:C2	4:L:645:U:C2	2.68	0.81
4:L:660:U:C2'	4:L:661:U:C5'	2.59	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
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
5:M:300:U:C2'	5:M:301:U:H5'	2.10	0.81
2:J:27:A:O2'	2:J:28:A:C5'	2.28	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
2:J:215:A:C2	2:J:216:A:N7	2.49	0.81
1:I:317:A:HO2'	1:I:318:A:C5'	1.85	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
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: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
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
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
4:L:646:U:O2'	4:L:647:U:C5'	2.27	0.81
4:L:673:U:H2'	4:L:674:U:C5'	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:425:U:C2'	4:L:426:U:H5'	2.11	0.81
2:J:166:A:O2'	2:J:167:A:H5'	1.81	0.81
3:K:204:A:C6	3:K:205:A:N6	2.49	0.81
6:N:302:U:H2'	6:N:303:U:H6	1.45	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
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
1:I:310:A:C2'	1:I:311:A:C5'	2.59	0.81
4:L:498:U:H2'	4:L:499:U:C5'	2.09	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
3:K:80:A:H2'	3:K:81:A:H8	1.46	0.81
6:N:423:U:C2'	6:N:424:U:H5'	2.10	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
4:L:811:U:C4	4:L:812:U:C5	2.68	0.81
1:I:187:A:N6	1:I:188:A:N6	2.29	0.81
4:L:635:U:C2'	4:L:636:U:H5'	2.10	0.81
4:L:704:U:HO2'	4:L:705:U:H5'	1.46	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
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
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
5:M:467:U:HO2'	5:M:468:U:H5'	1.46	0.81
2:J:225:A:C2	2:J:226:A:C4	2.68	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: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
6:N:294:U:H2'	6:N:295:U:H6	1.45	0.81
2:J:107:A:C2'	2:J:108:A:H5'	2.11	0.80
5:M:417:U:N3	5:M:418:U:C4	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:491:U:HO2'	5:M:492:U:H5'	1.46	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
6:N:397:U:O2'	6:N:398:U:H5'	1.80	0.80
1:I:86:A:H62	1:I:87:A:H62	1.26	0.80
4:L:803:U:C2'	4:L:804:U:H6	1.91	0.80
1:I:133:A:C2	1:I:134:A:C4	2.69	0.80
4:L:695:U:C2'	4:L:696:U:H5'	2.10	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
6:N:485:U:C3'	6:N:486:U:C5'	2.46	0.80
1:I:375:A:C2	1:I:376:A:C5	2.69	0.80
2:J:245:A:O2'	2:J:246:A:H5'	1.80	0.80
6:N:296:U:C4	6:N:297:U:O4	2.33	0.80
4:L:447:U:O3'	4:L:448:U:OP2	1.98	0.80
3:K:42:A:C2'	3:K:43:A:H5'	2.10	0.80
3:K:225:A:H2'	3:K:226:A:H8	1.45	0.80
2:J:40:A:H2'	2:J:41:A:C8	2.16	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
2:J:225:A:C2	2:J:226:A:N9	2.49	0.80
1:I:325:A:C6	1:I:326:A:N6	2.48	0.80
3:K:166:A:N3	3:K:167:A:C8	2.49	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
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:C6	2.69	0.80
4:L:806:U:C2	4:L:807:U:C5	2.69	0.80
1:I:130:A:O2'	1:I:131:A:H5'	1.81	0.80
4:L:584:U:C2	4:L:585:U:C6	2.68	0.80
2:J:248:A:C6	2:J:249:A:N6	2.48	0.80
4:L:436:U:O2'	4:L:437:U:C5'	2.27	0.80
3:K:46:A:C2'	3:K:47:A:C5'	2.59	0.80
5:M:299:U:C2'	5:M:300:U:H5'	2.09	0.80
6:N:349:U:O2'	6:N:350:U:H5'	1.81	0.80
2:J:78:A:O2'	2:J:79:A:H5'	1.80	0.80
5:M:488:U:N3	5:M:489:U:C5	2.50	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:215:A:C2	2:J:216:A:C5	2.70	0.80
4:L:484:U:H2'	4:L:485:U:C5'	2.10	0.80
3:K:97:A:C4	3:K:98:A:C8	2.69	0.80
6:N:401:U:C2'	6:N:402:U:H5'	2.11	0.80
1:I:47:A:C2	1:I:48:A:N7	2.49	0.80
4:L:816:U:C2	4:L:817:U:C5	2.68	0.80
2:J:206:A:C4	2:J:207:A:C8	2.69	0.80
5:M:347:U:O2'	5:M:348:U:C4'	2.29	0.80
1:I:236:A:C2'	1:I:237:A:C5'	2.58	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
6:N:481:U:HO2'	6:N:482:U:H5'	1.00	0.80
1:I:376:A:N1	1:I:377:A:C5	2.48	0.80
6:N:338:U:C2	6:N:339:U:C5	2.69	0.80
6:N:292:U:H2'	6:N:293:U:C6	2.16	0.80
2:J:136:A:C2	2:J:137:A:C8	2.69	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
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
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: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
4:L:814:U:H2'	4:L:815:U:O4'	1.82	0.80
1:I:179:A:C6	1:I:180:A:N6	2.49	0.80
4:L:658:U:HO2'	4:L:659:U:H5'	1.43	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
1:I:281:A:C6	1:I:282:A:N6	2.50	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:30:A:C2'	2:J:31:A:H5'	2.12	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
2:J:217:A:N6	2:J:218:A:H62	1.77	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:107:A:C2'	3:K:108:A:C5'	2.59	0.80
1:I:43:A:N1	1:I:44:A:C5	2.49	0.80
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
5:M:348:U:C2'	5:M:349:U:C6	2.65	0.80
1:I:241:A:N6	1:I:242:A:N6	2.30	0.80
4:L:581:U:C4	4:L:582:U:O4	2.34	0.80
4:L:438:U:C2	4:L:439:U:C5	2.69	0.80
6:N:312:U:H2'	6:N:313:U:O4'	1.80	0.80
6:N:291:U:O2'	6:N:292:U:H5'	1.81	0.80
1:I:389:A:H2'	1:I:390:A:C8	2.15	0.80
3:K:49:A:C2	3:K:50:A:C4	2.70	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
3:K:164:A:C6	3:K:165:A:C5	2.69	0.80
3:K:85:A:C2'	3:K:86:A:H5'	2.11	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
4:L:780:U:H2'	4:L:781:U:C5'	2.11	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
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
6:N:322:U:C4	6:N:323:U:O4	2.35	0.80
2:J:37:A:C2'	2:J:38:A:C5'	2.60	0.80
5:M:370:U:H2'	5:M:371:U:C6	2.16	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
1:I:65:A:C2	1:I:66:A:C8	2.70	0.80
4:L:734:U:C2'	4:L:735:U:C5'	2.59	0.80
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
4:L:658:U:C2'	4:L:659:U:H5'	2.10	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
6:N:485:U:O2'	6:N:486:U:O4'	1.97	0.80
2:J:265:A:O2'	2:J:266:A:O5'	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:320:U:H2'	6:N:321:U:H6	1.46	0.80
6:N:320:U:C2'	6:N:321:U:C5'	2.60	0.80
1:I:407:A:O2'	1:I:408:A:H5'	1.82	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
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
4:L:507:U:H2'	4:L:508:U:C5'	2.09	0.80
3:K:61:A:N6	3:K:62:A:N6	2.30	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
4:L:763:U:C2'	4:L:764:U:H6	1.94	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
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
4:L:460:U:C2'	4:L:461:U:C5'	2.59	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
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
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
4:L:779:U:C2	4:L:780:U:C6	2.69	0.80
4:L:657:U:HO2'	4:L:658:U:H5'	1.43	0.80
4:L:718:U:C2	4:L:719:U:C6	2.70	0.80
1:I:260:A:O2'	1:I:261:A:C5'	2.26	0.80
2:J:90:A:C2'	2:J:91:A:H5'	2.08	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
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
1:I:128:A:C4	1:I:129:A:C8	2.70	0.80
4:L:669:U:H2'	4:L:670:U:H6	1.46	0.80
1:I:258:A:HO2'	1:I:259:A:H5'	1.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:300:A:O2'	1:I:301:A:H5'	1.80	0.80
2:J:182:A:C6	2:J:183:A:N6	2.50	0.79
5:M:392:U:O2'	5:M:393:U:O4'	2.00	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
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
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
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
3:K:181:A:H2'	3:K:182:A:C8	2.17	0.79
2:J:136:A:N3	2:J:137:A:C1'	2.45	0.79
2:J:189:A:O2'	2:J:190:A:H5'	1.81	0.79
2:J:55:A:N6	2:J:56:A:N6	2.29	0.79
5:M:323:U:H2'	5:M:324:U:C6	2.17	0.79
3:K:120:A:H2'	3:K:121:A:H5'	1.62	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:43:A:C4	1:I:44:A:N7	2.51	0.79
4:L:749:U:HO2'	4:L:750:U:H5'	1.47	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
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:438:U:O4	4:L:439:U:O4	1.99	0.79
3:K:204:A:H2'	3:K:205:A:H8	1.44	0.79
1:I:403:A:H2'	1:I:404:A:C8	2.17	0.79
5:M:416:U:H2'	5:M:417:U:C6	2.16	0.79
1:I:310:A:H2'	1:I:311:A:O4'	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
3:K:56:A:O2'	3:K:57:A:H5'	1.81	0.79
4:L:765:U:C2	4:L:766:U:C6	2.71	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
4:L:557:U:N3	4:L:558:U:C5	2.51	0.79
4:L:585:U:HO2'	4:L:586:U:C5'	1.78	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:113:A:C4	1:I:114:A:C8	2.70	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
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
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
4:L:587:U:H2'	4:L:588:U:C6	2.16	0.79
4:L:618:U:HO2'	4:L:619:U:H5'	1.44	0.79
1:I:376:A:N3	1:I:377:A:N7	2.30	0.79
6:N:313:U:H2'	6:N:314:U:C6	2.18	0.79
1:I:388:A:H2'	1:I:389:A:H8	1.46	0.79
2:J:93:A:C2'	2:J:94:A:H5'	2.12	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
1:I:343:A:C2'	1:I:344:A:H5'	2.13	0.79
3:K:154:A:C6	3:K:155:A:C6	2.71	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
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
1:I:375:A:O2'	1:I:376:A:P	2.40	0.79
6:N:297:U:O2'	6:N:298:U:H5'	1.82	0.79
1:I:400:A:C6	1:I:401:A:N6	2.51	0.79
6:N:349:U:O2	6:N:350:U:C6	2.35	0.79
2:J:66:A:O2'	2:J:67:A:C5'	2.26	0.79
4:L:510:U:H2'	4:L:511:U:O4'	1.83	0.79
3:K:142:A:O2'	3:K:143:A:C5'	2.30	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:95:A:HO2'	1:I:96:A:P	2.06	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:757:U:C2'	4:L:758:U:C6	2.64	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
4:L:688:U:C2'	4:L:689:U:C5'	2.59	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:569:U:HO2'	4:L:570:U:H5'	1.47	0.79
4:L:589:U:N3	4:L:590:U:C5	2.51	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
4:L:528:U:O2'	4:L:529:U:H5'	1.81	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
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
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: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
4:L:642:U:HO2'	4:L:643:U:H5'	1.45	0.79
4:L:694:U:N3	4:L:695:U:C5	2.51	0.79
3:K:45:A:C2'	3:K:46:A:H5'	2.13	0.79
2:J:5:A:N6	2:J:6:A:N6	2.31	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
5:M:335:U:C6	5:M:336:U:C5	2.70	0.79
1:I:322:A:C4	1:I:323:A:C8	2.71	0.79
1:I:90:A:O2'	1:I:91:A:C5'	2.29	0.79
4:L:776:U:O2'	4:L:777:U:C5'	2.27	0.79
4:L:677:U:C3'	4:L:678:U:P	2.71	0.79
4:L:582:U:C2	4:L:583:U:C6	2.71	0.79
3:K:199:A:H2'	3:K:200:A:C8	2.18	0.79
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
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
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
1:I:164:A:O2'	1:I:165:A:O5'	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:723:U:N1	4:L:724:U:C6	2.50	0.79
4:L:567:U:HO2'	4:L:568:U:H5'	1.43	0.79
3:K:206:A:H2'	3:K:207:A:C8	2.17	0.79
6:N:529:U:O2'	6:N:530:U:H5'	1.82	0.79
2:J:92:A:H2'	2:J:93:A:H8	1.45	0.79
5:M:498:U:H2'	5:M:499:U:H6	1.46	0.79
2:J:216:A:C2	2:J:217:A:C6	2.71	0.79
4:L:509:U:C2'	4:L:510:U:H5'	2.13	0.79
3:K:152:A:H61	3:K:153:A:N6	1.80	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
1:I:112:A:C2	1:I:113:A:C4	2.71	0.79
4:L:636:U:H2'	4:L:637:U:H6	1.48	0.79
4:L:421:U:C2'	4:L:422:U:H5'	2.13	0.79
2:J:239:A:C3'	2:J:240:A:P	2.71	0.79
3:K:201:A:H2'	3:K:202:A:H8	1.46	0.79
6:N:346:U:C3'	6:N:347:U:P	2.70	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:172:A:H2'	2:J:173:A:C8	2.17	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
2:J:222:A:C4	2:J:223:A:C8	2.71	0.78
1:I:333:A:N3	1:I:334:A:N9	2.30	0.78
4:L:498:U:H2'	4:L:499:U:O4'	1.82	0.78
3:K:96:A:C4	3:K:97:A:C8	2.71	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
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
1:I:282:A:O2'	1:I:283:A:P	2.40	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
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
3:K:46:A:C2'	3:K:47:A:O4'	2.30	0.78
5:M:509:U:H2'	5:M:510:U:H6	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:487:U:O2'	4:L:488:U:C4'	2.31	0.78
3:K:63:A:O2'	3:K:64:A:C5'	2.30	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:49:A:N3	1:I:50:A:C8	2.51	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
2:J:206:A:HO2'	2:J:207:A:H5'	0.99	0.78
4:L:598:U:C2	4:L:599:U:C6	2.71	0.78
1:I:358:A:O2'	1:I:359:A:O5'	2.01	0.78
4:L:435:U:H2'	4:L:436:U:H6	1.46	0.78
3:K:43:A:N6	3:K:44:A:H62	1.80	0.78
2:J:90:A:C2'	2:J:91:A:C5'	2.62	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:333:A:C2	1:I:334:A:H1'	2.18	0.78
3:K:155:A:C6	3:K:156:A:C6	2.71	0.78
4:L:650:U:O2'	4:L:651: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
4:L:611:U:O2'	4:L:612:U:H5'	1.84	0.78
2:J:248:A:C6	2:J:249:A:C6	2.71	0.78
2:J:26:A:C2'	2:J:27:A:C5'	2.60	0.78
5:M:417:U:N3	5:M:418:U:C5	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
1:I:348:A:HO2'	1:I:349:A:H5'	1.46	0.78
4:L:532:U:HO2'	4:L:533:U:H5'	1.45	0.78
3:K:154:A:H2'	3:K:155:A:C8	2.18	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
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
4:L:769:U:C2	4:L:770:U:C6	2.72	0.78
1:I:140:A:C4	1:I:141:A:N7	2.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:282:A:N3	1:I:283:A:C8	2.51	0.78
4:L:553:U:C2	4:L:554:U:C6	2.72	0.78
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
3:K:46:A:O2'	3:K:47:A:C4'	2.32	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
4:L:472:U:O2	4:L:473:U:C5	2.35	0.78
3:K:80:A:H2'	3:K:81:A:C8	2.17	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
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
4:L:671:U:O2'	4:L:672:U:H5'	1.83	0.78
1:I:263:A:C2	1:I:264:A:C8	2.72	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
2:J:228:A:H2'	2:J:229:A:H8	1.48	0.78
6:N:327:U:H2'	6:N:328:U:C6	2.19	0.78
1:I:299:A:C2'	1:I:300:A:C5'	2.61	0.78
2:J:184:A:N3	2:J:185:A:C8	2.52	0.78
2:J:61:A:C2	2:J:62:A:C8	2.72	0.78
2:J:216:A:N3	2:J:217:A:C8	2.52	0.78
5:M:338:U:O2'	5:M:339:U:P	2.40	0.78
3:K:104:A:N3	3:K:105:A:C8	2.52	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
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
1:I:166:A:C2'	1:I:167:A:H5'	2.14	0.78
4:L:634:U:C2	4:L:635:U:C6	2.71	0.78
1:I:279:A:C2	1:I:280:A:C4	2.71	0.78
6:N:305:U:C2'	6:N:306:U:H6	1.97	0.78
3:K:192:A:C2'	3:K:193:A:C8	2.65	0.78
2:J:95:A:O2'	2:J:96:A:H5'	1.83	0.78
5:M:504:U:N3	5:M:505:U:C5	2.52	0.78
4:L:517:U:C2	4:L:518:U:C6	2.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:285:A:C2'	1:I:286:A:C5'	2.60	0.78
4:L:588:U:C2	4:L:589:U:C6	2.71	0.78
1:I:359:A:N6	1:I:360:A:H62	1.79	0.78
2:J:236:A:C2	2:J:237:A:C8	2.70	0.78
6:N:327:U:O2'	6:N:328:U:C5'	2.30	0.78
3:K:234:A:C6	3:K:235:A:N6	2.51	0.78
6:N:526:U:C2'	6:N:527:U:O4'	2.31	0.78
2:J:191:A:C2'	2:J:192:A:C5'	2.61	0.78
2:J:96:A:O2'	2:J:97:A:H5'	1.83	0.78
5:M:484:U:C2	5:M:485:U:C5	2.71	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
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
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
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
1:I:362:A:C6	1:I:363:A:N6	2.52	0.78
3:K:211:A:H2'	3:K:212:A:H8	1.44	0.78
5:M:299:U:H2'	5:M:300:U:O4'	1.83	0.78
2:J:127:A:H2'	2:J:128:A:C5'	2.14	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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:326:A:C2'	1:I:327:A:H5'	2.14	0.78
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
6:N:440:U:H2'	6:N:441:U:O4'	1.84	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
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
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
4:L:549:U:H2'	4:L:550:U:C6	2.18	0.78
6:N:501:U:C2'	6:N:502:U:H5'	2.13	0.78
2:J:237:A:C2	2:J:238:A:C8	2.72	0.78
2:J:160:A:O2'	2:J:161:A:O4'	2.00	0.78
6:N:338:U:C2'	6:N:339:U:C6	2.61	0.78
2:J:101:A:C4	2:J:102:A:N7	2.52	0.78
2:J:11:A:C2'	2:J:12:A:O4'	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
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
3:K:156:A:C2'	3:K:157:A:C4'	2.62	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: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
4:L:778:U:H2'	4:L:779:U:H6	1.49	0.78
4:L:794:U:HO2'	4:L:795:U:H5'	1.44	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
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
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
2:J:165:A:N3	2:J:166:A:N7	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:127:A:C2	2:J:128:A:C8	2.71	0.77
2:J:8:A:O2'	2:J:9:A:C4'	2.32	0.77
5:M:530:U:O2'	5:M:531:U:C5'	2.26	0.77
5:M:536:U:HO2'	5:M:537:U:H5'	1.45	0.77
5:M:548:U:O3'	5:M:549:U:OP2	1.97	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: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
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
4:L:537:U:H2'	4:L:538:U:H6	1.49	0.77
5:M:453:U:C2'	5:M:454:U:C6	2.66	0.77
3:K:125:A:HO2'	3:K:126:A:H5'	1.45	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
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
1:I:113:A:C4	1:I:114:A:N7	2.52	0.77
4:L:704:U:C2'	4:L:705:U:C5'	2.59	0.77
4:L:704:U:O2'	4:L:705:U:C5'	2.24	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
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
6:N:274:U:C2'	6:N:275:U:H5'	2.14	0.77
1:I:357:A:HO2'	1:I:358:A:H5'	1.49	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
5:M:299:U:C2	5:M:300:U:C6	2.72	0.77
2:J:42:A:C2'	2:J:43:A:H5'	2.14	0.77
5:M:427:U:C2	5:M:428:U:C5	2.72	0.77
4:L:506:U:C2'	4:L:507:U:H5'	2.14	0.77
3:K:105:A:N1	3:K:106:A:C6	2.53	0.77
6:N:441:U:C2	6:N:442:U:C5	2.73	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
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)
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
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
5:M:346:U:H2'	5:M:347:U:H6	1.48	0.77
1:I:239:A:C2	1:I:240:A:C4	2.73	0.77
6:N:489:U:O2'	6:N:490:U:C5'	2.32	0.77
6:N:306:U:H2'	6:N:307:U:C6	2.19	0.77
3:K:192:A:C2'	3:K:193:A:H8	1.98	0.77
2:J:43:A:H2'	2:J:44:A:C4'	2.13	0.77
5:M:373:U:HO2'	5:M:374:U:H5'	1.47	0.77
5:M:482:U:HO2'	5:M:483:U:H5'	1.46	0.77
4:L:476:U:O2'	4:L:477:U:H5'	1.84	0.77
6:N:379:U:C2	6:N:380:U:C6	2.73	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
6:N:280:U:C2'	6:N:281:U:C5'	2.62	0.77
1:I:140:A:N1	1:I:141:A:C6	2.53	0.77
4:L:715:U:C2'	4:L:716:U:C6	2.59	0.77
1:I:240:A:H2'	1:I:241:A:H8	1.48	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
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
2:J:257:A:O2'	2:J:258:A:H5'	1.84	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
2:J:176:A:C2	2:J:177:A:C4	2.73	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
5:M:335:U:C2	5:M:336:U:C6	2.71	0.77
4:L:509:U:H2'	4:L:510:U:H6	1.49	0.77
6:N:476:U:O2'	6:N:477:U:H5'	1.84	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:467:U:HO2'	4:L:468:U:H5'	1.50	0.77
2:J:265:A:O2'	2:J:266:A:P	2.39	0.77
2:J:171:A:N1	2:J:172:A:C6	2.53	0.77
2:J:70:A:C2	2:J:71:A:C4	2.72	0.77
2:J:218:A:N3	2:J:219:A:C8	2.53	0.77
4:L:524:U:HO2'	4:L:525:U:H5'	1.47	0.77
3:K:154:A:C4	3:K:155:A:N7	2.50	0.77
3:K:96:A:O2'	3:K:97:A:C5'	2.32	0.77
6:N:418:U:C2	6:N:419:U:C5	2.73	0.77
1:I:18:A:C2'	1:I:19:A:H5'	2.10	0.77
1:I:132:A:C2	1:I:133:A:C4	2.72	0.77
4:L:681:U:C2'	4:L:682:U:C6	2.68	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
4:L:578:U:O2'	4:L:579:U:C5'	2.28	0.77
4:L:423:U:H2'	4:L:424:U:C6	2.19	0.77
5:M:290:U:C2'	5:M:291:U:C5'	2.63	0.77
2:J:55:A:H2'	2:J:56:A:O4'	1.84	0.77
5:M:459:U:C2	5:M:460:U:C5	2.72	0.77
5:M:337:U:H2'	5:M:338:U:C4'	2.13	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
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
3:K:130:A:C2'	3:K:131:A:H5'	2.15	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
4:L:682:U:C2'	4:L:683:U:C5'	2.63	0.77
1:I:265:A:C5	1:I:266:A:N7	2.53	0.77
2:J:165:A:N1	2:J:166:A:C5	2.53	0.77
6:N:348:U:H2'	6:N:349:U:H6	1.50	0.77
2:J:102:A:H2'	2:J:103:A:H8	1.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:223:A:C4	2:J:224:A:C8	2.73	0.77
5:M:322:U:C2'	5:M:323:U:O4'	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
3:K:140:A:N6	3:K:141:A:N6	2.32	0.77
3:K:59:A:O2'	3:K:60:A:C5'	2.29	0.77
6:N:402:U:C2	6:N:403:U:C5	2.72	0.77
1:I:97:A:C2	1:I:98:A:C4	2.73	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
3:K:251:A:N6	3:K:252:A:N6	2.32	0.77
1:I:184:A:C6	1:I:185:A:N6	2.53	0.77
4:L:637:U:N3	4:L:638:U:C5	2.53	0.77
1:I:231:A:C6	1:I:232:A:C5	2.72	0.77
1:I:231:A:C2'	1:I:232:A:H5'	2.14	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
4:L:574:U:C2'	4:L:575:U:C6	2.65	0.77
3:K:207:A:H2'	3:K:208:A:H8	1.49	0.77
2:J:71:A:N6	2:J:72:A:H62	1.83	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
2:J:214:A:C2	2:J:215:A:C4	2.72	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
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
6:N:413:U:C2	6:N:414:U:C6	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
3:K:252:A:H3'	3:K:253:A:P	2.25	0.77
1:I:164:A:N3	1:I:165:A:N7	2.33	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
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
4:L:553:U:H2'	4:L:554:U:O4'	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:581:U:N3	4:L:582:U:C4	2.52	0.77
1:I:291:A:O2'	1:I:292:A:C5'	2.29	0.77
2:J:107:A:O2'	2:J:108:A:C5'	2.27	0.77
2:J:32:A:C2'	2:J:33:A:H5'	2.15	0.77
4:L:495:U:C2	4:L:496:U:C5	2.73	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: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
4:L:747:U:C2	4:L:748:U:C5	2.72	0.77
1:I:174:A:C2'	1:I:175:A:C5'	2.61	0.77
4:L:712:U:C4	4:L:713:U:C5	2.73	0.77
4:L:462:U:C4	4:L:463:U:O4	2.37	0.77
3:K:228:A:H2'	3:K:229:A:C8	2.20	0.77
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
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: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
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
2:J:200:A:C2	2:J:201:A:C8	2.72	0.76
4:L:584:U:HO2'	4:L:585:U:H5'	1.47	0.76
4:L:421:U:O2'	4:L:422:U:O4'	2.02	0.76
3:K:202:A:H2'	3:K:203:A:H8	1.49	0.76
5:M:305:U:O2'	5:M:306:U:H5'	1.86	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
5:M:324:U:H2'	5:M:325:U:O4'	1.84	0.76
4:L:484:U:C2	4:L:485:U:C6	2.72	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
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
4:L:625:U:C2	4:L:626:U:C5	2.73	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:705:U:O2	4:L:706:U:C6	2.38	0.76
4:L:571:U:H2'	4:L:572:U:H6	1.48	0.76
6:N:485:U:C3'	6:N:486:U:P	2.73	0.76
5:M:287:U:H2'	5:M:288:U:H6	1.49	0.76
2:J:138:A:N6	2:J:139:A:H62	1.81	0.76
2:J:94:A:C2	2:J:95:A:C4	2.72	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
4:L:528:U:H2'	4:L:529:U:H6	1.51	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
1:I:53:A:C2	1:I:54:A:C8	2.73	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
3:K:256:A:C2'	3:K:257:A:C5'	2.64	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
4:L:615:U:O2'	4:L:616:U:H5'	1.86	0.76
6:N:497:U:HO2'	6:N:498:U:H5'	1.48	0.76
2:J:175:A:H2'	2:J:176:A:C8	2.20	0.76
5:M:544:U:HO2'	5:M:545:U:H5'	0.95	0.76
3:K:167:A:C2'	3:K:168:A:C5'	2.63	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:C8	2.20	0.76
1:I:79:A:C2'	1:I:80:A:H5'	2.15	0.76
1:I:79:A:C6	1:I:80:A:N7	2.53	0.76
1:I:90:A:H2'	1:I:91:A:O4'	1.85	0.76
4:L:770:U:O4	4:L:771:U:O4	2.03	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
5:M:346:U:C2	5:M:347:U:C6	2.73	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:420:U:C4	4:L:421:U:O4	2.37	0.76
2:J:237:A:C2	2:J:238:A:C5	2.73	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: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
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
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
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: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
4:L:737:U:O2'	4:L:738:U:C5'	2.33	0.76
6:N:281:U:H2'	6:N:282:U:C5'	2.14	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
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
3:K:227:A:H2'	3:K:228:A:C8	2.20	0.76
2:J:172:A:H2'	2:J:173:A:H8	1.50	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:329:A:C4	1:I:330:A:C8	2.73	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
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
1:I:41:A:C2	1:I:42:A:C5	2.74	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:775:U:HO2'	4:L:776:U:H5'	1.50	0.76
4:L:793:U:N3	4:L:794:U:C5	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:691:U:H2'	4:L:692:U:H6	1.49	0.76
1:I:222:A:C2'	1:I:223:A:H5'	2.14	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
3:K:203:A:HO2'	3:K:204:A:C5'	1.97	0.76
3:K:45:A:O2'	3:K:46:A:C5'	2.33	0.76
2:J:181:A:C2	2:J:182:A:C5	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
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
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
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:79:A:N3	1:I:80:A:C8	2.54	0.76
4:L:727:U:O2	4:L:728:U:C6	2.39	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
1:I:197:A:C2	1:I:198:A:C8	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
1:I:268:A:C4	1:I:269:A:C8	2.74	0.76
4:L:424:U:H2'	4:L:425:U:C6	2.20	0.76
5:M:299:U:C2'	5:M:300:U:C5'	2.64	0.76
2:J:118:A:C2	2:J:119:A:N7	2.54	0.76
5:M:512:U:O2'	5:M:513:U:H5'	1.84	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
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
1:I:95:A:N1	1:I:96:A:N6	2.34	0.76
4:L:753:U:H2'	4:L:754:U:H6	1.49	0.76
4:L:547:U:N3	4:L:548:U:O4	2.17	0.76
6:N:481:U:H2'	6:N:482:U:H6	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:305:U:H2'	5:M:306:U:H6	1.50	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
3:K:124:A:N1	3:K:125:A:N6	2.34	0.76
3:K:127:A:HO2'	3:K:128:A:H5'	1.49	0.76
3:K:97:A:C2'	3:K:98:A:O4'	2.30	0.76
6:N:422:U:C2	6:N:423:U:C5	2.74	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
3:K:254:A:H2'	3:K:255:A:O4'	1.86	0.76
1:I:122:A:HO2'	1:I:123:A:C5'	1.87	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
4:L:723:U:C6	4:L:724:U:H5	1.97	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
4:L:550:U:O2	4:L:551:U:C6	2.39	0.76
2:J:237:A:O2'	2:J:238:A:P	2.43	0.76
2:J:112:A:O2'	2:J:113:A:H5'	1.85	0.76
2:J:61:A:C2	2:J:62:A:N7	2.53	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
5:M:336:U:N3	5:M:337:U:C5	2.54	0.76
5:M:336:U:O4	5:M:337:U:C4	2.38	0.76
4:L:533:U:C2'	4:L:534:U:C5'	2.63	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
6:N:427:U:H2'	6:N:428:U:H6	1.48	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
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
1:I:248:A:C2	1:I:249:A:C4	2.74	0.76
4:L:580:U:HO2'	4:L:581:U:H5'	1.51	0.76
6:N:327:U:H2'	6:N:328:U:H6	1.49	0.76
6:N:515:U:O2'	6:N:516:U:H5'	1.85	0.76
5:M:365:U:HO2'	5:M:366:U:H5'	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:333:U:C2	5:M:334:U:C6	2.73	0.75
1:I:329:A:C5	1:I:330:A:N7	2.53	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
4:L:641:U:O2	4:L:642:U:C6	2.40	0.75
2:J:204:A:N1	2:J:205:A:C6	2.54	0.75
4:L:607:U:O2'	4:L:608:U:H5'	1.86	0.75
6:N:489:U:C2	6:N:490:U:C5	2.73	0.75
4:L:424:U:C4	4:L:425:U:C4	2.74	0.75
6:N:321:U:C4	6:N:322:U:C4	2.73	0.75
1:I:296:A:O2'	1:I:297:A:C5'	2.29	0.75
6:N:288:U:C3'	6:N:289:U:P	2.74	0.75
3:K:241:A:C3'	3:K:242:A:P	2.74	0.75
3:K:46:A:C3'	3:K:47:A:H5'	2.16	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
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
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
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
2:J:165:A:O2'	2:J:166:A:P	2.43	0.75
6:N:313:U:C4	6:N:314:U:O4	2.40	0.75
2:J:184:A:C2'	2:J:185:A:H5'	2.17	0.75
5:M:371:U:O2'	5:M:372:U:C5'	2.23	0.75
5:M:316:U:C2	5:M:317:U:C6	2.75	0.75
1:I:328:A:H2'	1:I:329:A:C8	2.19	0.75
3:K:146:A:C2	3:K:147:A:C8	2.74	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
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: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
4:L:765:U:H2'	4:L:766:U:C4'	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:156:A:C2'	1:I:157:A:H8	1.98	0.75
4:L:712:U:N1	4:L:713:U:C6	2.54	0.75
5:M:349:U:H2'	5:M:350:U:O4'	1.86	0.75
4:L:606:U:O2'	4:L:607:U:H5'	1.86	0.75
2:J:133:A:C2'	2:J:134:A:C5'	2.59	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
3:K:151:A:C2	3:K:152:A:C5	2.74	0.75
6:N:407:U:O2'	6:N:408:U:H5'	1.86	0.75
1:I:20:A:H2'	1:I:21:A:O4'	1.85	0.75
4:L:728:U:C2	4:L:729:U:C4	2.73	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
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
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
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
6:N:493:U:H2'	6:N:494:U:H6	1.51	0.75
6:N:273:U:H2'	6:N:274:U:H6	1.50	0.75
2:J:265:A:C2'	2:J:266:A:O5'	2.35	0.75
5:M:296:U:H2'	5:M:297:U:C5'	2.15	0.75
2:J:83:A:C6	2:J:84:A:C6	2.75	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
1:I:341:A:H2'	1:I:342:A:C5'	2.15	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
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
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
4:L:723:U:H2'	4:L:724:U:C6	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:404:A:C6	1:I:405:A:N6	2.54	0.75
5:M:295:U:O2'	5:M:296:U:H5'	1.87	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:50:A:O2'	2:J:51:A:C5'	2.32	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
5:M:326:U:O2'	5:M:327:U:H5'	1.87	0.75
1:I:318:A:O2'	1:I:319:A:C5'	2.30	0.75
4:L:508:U:C4	4:L:509:U:O4	2.40	0.75
3:K:110:A:H2'	3:K:111:A:O5'	1.87	0.75
3:K:167:A:N6	3:K:168:A:H62	1.84	0.75
6:N:371:U:O2'	6:N:372:U:H5'	1.87	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
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
2:J:200:A:O2'	2:J:201:A:C5'	2.35	0.75
4:L:597:U:H2'	4:L:598:U:H6	1.51	0.75
5:M:298:U:C2'	5:M:299:U:H5'	2.17	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
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
4:L:518:U:C2	4:L:519:U:C6	2.75	0.75
3:K:54:A:C2	3:K:55:A:N7	2.54	0.75
1:I:56:A:C2	1:I:57:A:N9	2.54	0.75
4:L:806:U:C2'	4:L:807:U:C5'	2.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:572:U:C2'	4:L:573:U:C5'	2.63	0.75
1:I:352:A:O2'	1:I:353:A:H5'	1.87	0.75
3:K:198:A:H2'	3:K:199:A:H8	1.49	0.75
2:J:181:A:N3	2:J:182:A:C8	2.55	0.75
2:J:42:A:O2'	2:J:43:A:C4'	2.35	0.75
5:M:453:U:O2'	5:M:454:U:C5'	2.35	0.75
6:N:428:U:C2	6:N:429:U:C5	2.75	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
6:N:301:U:H2'	6:N:302:U:C6	2.22	0.75
3:K:49:A:O2'	3:K:50:A:O5'	2.04	0.75
4:L:521:U:H2'	4:L:522:U:O5'	1.87	0.75
3:K:164:A:C2'	3:K:165:A:H5'	2.16	0.75
3:K:75:A:C3'	3:K:76:A:P	2.75	0.75
6:N:380:U:H2'	6:N:381:U:O5'	1.87	0.75
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
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
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
4:L:542:U:C2	4:L:543:U:C5	2.75	0.75
6:N:304:U:H2'	6:N:305:U:H6	1.51	0.75
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:8:A:C2	2:J:9:A:C4	2.75	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
2:J:223:A:C2	2:J:224:A:C8	2.75	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
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: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:122:A:HO2'	1:I:123:A:H5'	0.92	0.74
5:M:346:U:HO2'	5:M:347:U:H5'	0.94	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:257:A:C2	1:I:258:A:C8	2.74	0.74
4:L:554:U:C2	4:L:555:U:H5	2.02	0.74
2:J:165:A:C2	2:J:166:A:N7	2.56	0.74
3:K:38:A:C2	3:K:39:A:C5	2.74	0.74
3:K:191:A:O2'	3:K:192:A:C5'	2.35	0.74
2:J:120:A:HO2'	2:J:121:A:H5'	1.49	0.74
2:J:38:A:N3	2:J:39:A:C8	2.55	0.74
5:M:428:U:HO2'	5:M:429:U:H5'	0.92	0.74
2:J:224:A:C6	2:J:225:A:N7	2.55	0.74
5:M:327:U:C2	5:M:328:U:C6	2.73	0.74
5:M:332:U:C2	5:M:333:U:C5	2.75	0.74
1:I:309:A:H2'	1:I:310:A:C8	2.22	0.74
3:K:153:A:H2'	3:K:154:A:H8	1.48	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
4:L:781:U:C2	4:L:782:U:C6	2.75	0.74
1:I:106:A:C2	1:I:107:A:N9	2.55	0.74
4:L:708:U:HO2'	4:L:709:U:H5'	1.53	0.74
1:I:244:A:N3	1:I:245:A:C8	2.55	0.74
4:L:592:U:C2	4:L:593:U:C5	2.75	0.74
2:J:192:A:C2	2:J:193:A:C8	2.75	0.74
2:J:93:A:C2'	2:J:94:A:C5'	2.64	0.74
1:I:337:A:HO2'	1:I:338:A:H5'	0.92	0.74
3:K:101:A:C6	3:K:102:A:N7	2.56	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
4:L:764:U:C2	4:L:765:U:C6	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
4:L:640:U:C2	4:L:641:U:C5	2.75	0.74
1:I:268:A:C2	1:I:269:A:C1'	2.70	0.74
4:L:602:U:N3	4:L:603:U:C5	2.55	0.74
4:L:421:U:C2'	4:L:422:U:C5'	2.66	0.74
1:I:403:A:H2'	1:I:404:A:H8	1.50	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:323:A:C2	1:I:324:A:C1'	2.71	0.74
3:K:120:A:O2'	3:K:121:A:H5'	1.87	0.74
3:K:99:A:C2	3:K:100:A:N9	2.55	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:79:A:C2	4:L:747:U:C2	2.75	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
1:I:264:A:O2'	1:I:265:A:H5'	1.86	0.74
2:J:57:A:C2	2:J:58:A:N7	2.56	0.74
2:J:84:A:HO2'	2:J:85:A:H5'	1.52	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
5:M:318:U:H2'	5:M:319:U:O4'	1.87	0.74
3:K:78:A:C2'	3:K:79:A:H5'	2.18	0.74
1:I:88:A:C2	1:I:89:A:C4	2.75	0.74
4:L:740:U:H2'	4:L:741:U:C5'	2.17	0.74
1:I:116:A:HO2'	1:I:117:A:H5'	1.53	0.74
4:L:720:U:O4	4:L:721:U:O4	2.04	0.74
6:N:335:U:C4	6:N:336:U:O4	2.41	0.74
5:M:299:U:H2'	5:M:300:U:H6	1.52	0.74
2:J:106:A:C2'	2:J:107:A:C5'	2.65	0.74
4:L:499:U:N3	4:L:500:U:C5	2.56	0.74
3:K:119:A:C2	3:K:120:A:C8	2.75	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
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
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
6:N:278:U:N3	6:N:279:U:C5	2.55	0.74
1:I:135:A:C4	1:I:136:A:C8	2.75	0.74
4:L:719:U:H2'	4:L:720:U:H6	1.50	0.74
5:M:349:U:N3	5:M:350:U:C5	2.55	0.74
1:I:269:A:C2	4:L:557:U:C2	2.76	0.74
4:L:553:U:O2	4:L:554:U:O4'	2.05	0.74
1:I:364:A:O2'	1:I:365:A:C5'	2.33	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
5:M:305:U:C2	5:M:306:U:C5	2.76	0.74
2:J:192:A:H2'	2:J:193:A:O5'	1.88	0.74
2:J:99:A:O2'	2:J:100:A:H5'	1.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:518:U:O2	5:M:519:U:C6	2.40	0.74
3:K:124:A:H2'	3:K:125:A:C8	2.22	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
4:L:805:U:C2	4:L:806:U:C5	2.76	0.74
3:K:249:A:C2	3:K:250:A:C8	2.76	0.74
6:N:277:U:H2'	6:N:278:U:O5'	1.87	0.74
1:I:250:A:C2'	1:I:251:A:H8	2.00	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
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
4:L:499:U:N3	4:L:500:U:C4	2.56	0.74
3:K:90:A:N3	3:K:91:A:C8	2.56	0.74
6:N:425:U:N1	6:N:426:U:C6	2.56	0.74
4:L:783:U:O2'	4:L:784:U:P	2.45	0.74
1:I:189:A:C2'	1:I:190:A:C5'	2.65	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
4:L:699:U:C4	4:L:700:U:C5	2.76	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
4:L:602:U:H2'	4:L:603:U:H6	1.51	0.74
4:L:421:U:O2'	4:L:422:U:C4'	2.36	0.74
6:N:339:U:O2'	6:N:340:U:C5'	2.34	0.74
5:M:297:U:C2'	5:M:298:U:H5'	2.17	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
5:M:377:U:C2'	5:M:378:U:H5'	2.17	0.74
1:I:348:A:C2'	1:I:349:A:C5'	2.66	0.74
6:N:406:U:H2'	6:N:407:U:H6	1.52	0.74
4:L:771:U:HO2'	4:L:772:U:H5'	1.49	0.74
4:L:666:U:N3	4:L:667:U:C5	2.56	0.74
1:I:272:A:H2'	1:I:273:A:H8	1.53	0.74
4:L:574:U:C4	4:L:575:U:C4	2.75	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:48:A:C2'	2:J:49:A:H5'	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:67:A:C2'	2:J:68:A:C5'	2.65	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
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
3:K:71:A:C2'	3:K:72:A:H8	1.94	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:44:A:HO2'	1:I:45:A:H5'	1.51	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
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
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
2:J:207:A:C2'	2:J:208:A:H5'	2.18	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:254:A:O2'	2:J:255:A:C5'	2.31	0.74
2:J:130:A:H2'	2:J:131:A:O4'	1.88	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
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:88:A:H2'	3:K:89:A:O5'	1.82	0.73
6:N:412:U:C2	6:N:413:U:C6	2.76	0.73
1:I:55:A:C2'	1:I:56:A:H5'	2.16	0.73
1:I:81:A:C2'	1:I:82:A:C5'	2.66	0.73
3:K:253:A:H2'	3:K:254:A:O5'	1.87	0.73
1:I:103:A:C2	1:I:104:A:C8	2.76	0.73
1:I:167:A:HO2'	1:I:168:A:H5'	1.49	0.73
4:L:711:U:C2'	4:L:712:U:C6	2.67	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:453:U:O2'	5:M:454:U:C4'	2.35	0.73
5:M:477:U:HO2'	5:M:478:U:H5'	1.53	0.73
5:M:507:U:C2	5:M:508:U:C5	2.77	0.73
5:M:327:U:N3	5:M:328:U:C5	2.55	0.73
1:I:315:A:O2'	1:I:316:A:C5'	2.32	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
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: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
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
6:N:318:U:N3	6:N:319:U:O4	2.21	0.73
2:J:170:A:HO2'	2:J:171:A:H5'	1.53	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
3:K:88:A:HO2'	3:K:89:A:H5'	1.54	0.73
1:I:88:A:N3	1:I:89:A:C8	2.56	0.73
4:L:745:U:N3	4:L:746:U:C5	2.55	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
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
5:M:349:U:H2'	5:M:350:U:H6	1.54	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
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
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
5:M:296:U:H2'	5:M:297:U:O4'	1.88	0.73
2:J:143:A:C4	2:J:144:A:C8	2.76	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
2:J:217:A:H2'	2:J:218:A:H8	1.53	0.73
4:L:510:U:H2'	4:L:511:U:H6	1.53	0.73
3:K:138:A:C2	3:K:139:A:C5	2.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:115:A:C2	1:I:116:A:C8	2.76	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
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
4:L:550:U:C2	4:L:551:U:C6	2.75	0.73
1:I:202:A:H2'	1:I:203:A:C5'	2.17	0.73
4:L:437:U:H2'	4:L:438:U:C6	2.24	0.73
2:J:156:A:C2'	2:J:157:A:C5'	2.66	0.73
6:N:524:U:HO3'	6:N:525:U:P	2.00	0.73
5:M:290:U:H2'	5:M:291:U:H6	1.54	0.73
2:J:124:A:C2	2:J:125:A:C5	2.76	0.73
2:J:51:A:H2'	2:J:52:A:O4'	1.89	0.73
3:K:88:A:C2	3:K:89:A:N7	2.56	0.73
6:N:402:U:H2'	6:N:403:U:C6	2.22	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
4:L:768:U:C2	4:L:769:U:C6	2.76	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
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
1:I:222:A:C4	1:I:223:A:C8	2.76	0.73
4:L:591:U:O2'	4:L:592:U:H5'	1.88	0.73
6:N:492:U:H2'	6:N:493:U:H6	1.53	0.73
1:I:376:A:H61	1:I:377:A:N6	1.80	0.73
2:J:160:A:C2'	2:J:161:A:C4'	2.66	0.73
6:N:289:U:C3'	6:N:290:U:P	2.75	0.73
2:J:252:A:C2'	2:J:253:A:H5'	2.18	0.73
3:K:230:A:N6	3:K:231:A:N6	2.37	0.73
2:J:108:A:O2'	2:J:109:A:H5'	1.87	0.73
2:J:13:A:C2	2:J:14:A:C4	2.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:520:U:C2	5:M:521:U:C6	2.75	0.73
1:I:340:A:O2'	1:I:341:A:P	2.45	0.73
4:L:484:U:H2'	4:L:485:U:O4'	1.88	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
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:92:A:N6	1:I:93:A:H62	1.87	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
4:L:706:U:C4	4:L:707:U:C4	2.76	0.73
5:M:345:U:C2	5:M:346:U:C5	2.77	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
4:L:592:U:H2'	4:L:593:U:H6	1.52	0.73
1:I:361:A:C2'	1:I:362:A:C5'	2.63	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:302:U:O2'	6:N:303:U:H5'	1.87	0.73
5:M:295:U:H2'	5:M:296:U:H6	1.51	0.73
2:J:105:A:H2'	2:J:106:A:H8	1.54	0.73
2:J:13:A:H2'	2:J:14:A:O5'	1.87	0.73
2:J:179:A:C2	2:J:180:A:C8	2.77	0.73
2:J:64:A:C2	2:J:65:A:C5	2.77	0.73
5:M:495:U:HO2'	5:M:496:U:H5'	1.54	0.73
5:M:335:U:H2'	5:M:336:U:C6	2.23	0.73
3:K:132:A:C2'	3:K:133:A:C5'	2.66	0.73
3:K:73:A:C2'	3:K:74:A:H5'	2.19	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:16:A:C6	1:I:17:A:N7	2.56	0.73
1:I:82:A:C2	1:I:83:A:C4	2.76	0.73
4:L:740:U:O2'	4:L:741:U:C5'	2.29	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
4:L:572:U:C2'	4:L:573:U:O5'	2.37	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
3:K:206:A:H2'	3:K:207:A:H8	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
1:I:120:A:H2'	1:I:121:A:O5'	1.88	0.73
4:L:650:U:HO2'	4:L:651:U:H5'	1.51	0.73
4:L:724:U:O2'	4:L:725:U:C5'	2.31	0.73
1:I:287:A:C2'	1:I:288:A:C4'	2.67	0.73
4:L:612:U:C2'	4:L:613:U:C5'	2.67	0.73
6:N:485:U:C2'	6:N:486:U:C4'	2.64	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:206:A:O2'	3:K:207:A:H5'	1.88	0.73
2:J:123:A:C2'	2:J:124:A:H5'	2.19	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
5:M:538:U:C4	5:M:539:U:C5	2.76	0.73
1:I:327:A:C2	1:I:328:A:C8	2.76	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
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: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
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
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
4:L:587:U:C2	4:L:588:U:C6	2.77	0.73
2:J:122:A:C6	2:J:123:A:C6	2.77	0.73
2:J:13:A:C2	2:J:14:A:N9	2.56	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
4:L:515:U:O2'	4:L:516:U:H5'	1.89	0.73
3:K:138:A:C2	3:K:139:A:N7	2.57	0.73
6:N:393:U:O2'	6:N:394:U:H5'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:88:A:C2	1:I:89:A:N9	2.56	0.73
1:I:9:A:HO2'	1:I:10:A:H5'	1.50	0.73
4:L:756:U:N3	4:L:757:U:C5	2.57	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
5:M:342:U:H2'	5:M:343:U:H6	1.53	0.73
1:I:206:A:C2	1:I:207:A:C5	2.77	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
1:I:371:A:O2'	1:I:372:A:H5'	1.88	0.73
2:J:63:A:C2'	2:J:64:A:H5'	2.19	0.72
5:M:414:U:C2	5:M:415:U:C5	2.76	0.72
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
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:99:A:H2'	3:K:100:A:O4'	1.89	0.72
1:I:72:A:C4	1:I:73:A:C8	2.77	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
4:L:668:U:C4	4:L:669:U:O4	2.42	0.72
2:J:198:A:C4	2:J:199:A:C8	2.76	0.72
4:L:585:U:H2'	4:L:586:U:H6	1.54	0.72
6:N:338:U:N3	6:N:339:U:C4	2.57	0.72
5:M:299:U:N3	5:M:300:U:C5	2.57	0.72
3:K:226:A:H2'	3:K:227:A:H8	1.52	0.72
3:K:189:A:N6	3:K:190:A:N6	2.37	0.72
2:J:137:A:C2	5:M:417:U:C2	2.77	0.72
4:L:474:U:C2'	4:L:475:U:H5'	2.19	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
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
4:L:689:U:O2	4:L:690:U:C6	2.42	0.72
1:I:249:A:C2	1:I:250:A:C8	2.76	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:604:U:HO2'	4:L:605:U:H5'	1.52	0.72
2:J:179:A:O2'	2:J:180:A:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:98:A:C2	2:J:99:A:C5	2.77	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
5:M:322:U:H2'	5:M:323:U:C5'	2.19	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
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
5:M:348:U:N1	5:M:349:U:C5	2.57	0.72
1:I:227:A:HO2'	1:I:228:A:H5'	1.52	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
6:N:502:U:O2'	6:N:503:U:H5'	1.90	0.72
4:L:424:U:C2	4:L:425:U:C5	2.77	0.72
2:J:110:A:O2'	2:J:111:A:H5'	1.88	0.72
2:J:57:A:N3	2:J:58:A:C8	2.57	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: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: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
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
3:K:250:A:H2'	3:K:251:A:O5'	1.88	0.72
4:L:667:U:H2'	4:L:668:U:H6	1.53	0.72
5:M:345:U:H2'	5:M:346:U:H6	1.54	0.72
4:L:611:U:C2	4:L:612:U:C5	2.76	0.72
6:N:333:U:O2'	6:N:334:U:H5'	1.89	0.72
1:I:402:A:H2'	1:I:403:A:H8	1.55	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:323:A:HO2'	1:I:324:A:C5'	1.76	0.72
1:I:334:A:C2'	1:I:335:A:C5'	2.67	0.72
6:N:405:U:HO2'	6:N:406:U:H5'	1.54	0.72
6:N:426:U:H2'	6:N:427:U:C6	2.22	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
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
4:L:722:U:HO2'	4:L:723:U:C5'	2.02	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:202:A:C2	1:I:203:A:C4	2.77	0.72
1:I:402:A:H2'	1:I:403:A:C8	2.24	0.72
2:J:176:A:H2'	2:J:177:A:H8	1.54	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
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
1:I:327:A:N3	1:I:328:A:C8	2.56	0.72
3:K:170:A:C2'	3:K:171:A:H5'	2.19	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
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
1:I:151:A:O2'	1:I:152:A:C5'	2.35	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
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
4:L:611:U:C2	4:L:612:U:C6	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:338:U:C2'	6:N:339:U:H6	2.02	0.72
3:K:14:A:C3'	3:K:15:A:P	2.77	0.72
4:L:448:U:O2	4:L:449:U:C5	2.43	0.72
3:K:192:A:C6	3:K:193:A:C6	2.78	0.72
2:J:66:A:C2	2:J:67:A:C8	2.78	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
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
6:N:418:U:O4	6:N:419:U:O4	2.08	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
6:N:278:U:C4	6:N:279:U:C5	2.78	0.72
1:I:127:A:H2'	1:I:128:A:O4'	1.90	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
1:I:231:A:C2'	1:I:232:A:C5'	2.68	0.72
4:L:564:U:O2'	4:L:565:U:C5'	2.32	0.72
4:L:466:U:C2	4:L:467:U:C6	2.78	0.72
3:K:41:A:HO2'	3:K:42:A:H5'	1.51	0.72
2:J:116:A:N3	2:J:117:A:N7	2.37	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
2:J:226:A:C2	2:J:227:A:C8	2.78	0.72
4:L:501:U:O2'	4:L:502:U:P	2.44	0.72
4:L:504:U:HO2'	4:L:505:U:H5'	1.54	0.72
3:K:131:A:C6	3:K:132:A:N6	2.57	0.72
6:N:425:U:O2'	6:N:426:U:C5'	2.36	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
4:L:645:U:C4	4:L:646:U:O4	2.42	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
4:L:463:U:C2'	4:L:464:U:C5'	2.67	0.72
2:J:265:A:H2'	2:J:266:A:H8	1.54	0.72
3:K:228:A:H2'	3:K:229:A:H8	1.55	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:495:U:C2'	5:M:496:U:H5'	2.19	0.72
4:L:728:U:H2'	4:L:729:U:C6	2.25	0.72
3:K:250:A:H2'	3:K:251:A:C5'	2.19	0.72
6:N:280:U:H2'	6:N:281:U:C5'	2.20	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:157:A:HO2'	2:J:158:A:H5'	1.55	0.72
3:K:212:A:N6	3:K:213:A:H61	1.88	0.72
6:N:306:U:H2'	6:N:307:U:H6	1.53	0.72
3:K:45:A:O2'	3:K:46:A:O4'	2.07	0.72
2:J:183:A:C4	2:J:184:A:C8	2.77	0.72
2:J:55:A:C6	2:J:56:A:C5	2.77	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
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
4:L:504:U:C2'	4:L:505:U:C5'	2.68	0.72
3:K:104:A:H2'	3:K:105:A:H8	1.54	0.72
6:N:375:U:N3	6:N:376:U:C4	2.58	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
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
3:K:253:A:H2'	3:K:254:A:O4'	1.90	0.72
4:L:681:U:C2'	4:L:682:U:H6	2.01	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
4:L:604:U:H2'	4:L:605:U:C5'	2.19	0.72
4:L:436:U:O2'	4:L:437:U:C4'	2.38	0.72
2:J:82:A:O2'	2:J:83:A:H5'	1.89	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
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
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:18:A:H2'	1:I:19:A:O4'	1.90	0.71
4:L:762:U:HO2'	4:L:763:U:H5'	1.51	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:L:704:U:H2'	4:L:705:U:C5'	2.20	0.71
1:I:286:A:N6	1:I:287:A:H62	1.87	0.71
6:N:312:U:H2'	6:N:313:U:H6	1.54	0.71
3:K:45:A:C3'	3:K:46:A:H5'	2.20	0.71
2:J:107:A:C2'	2:J:108:A:C5'	2.67	0.71
5:M:434:U:O2'	5:M:435:U:H5'	1.90	0.71
4:L:503:U:O2'	4:L:504:U:H5'	1.91	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
6:N:442:U:H2'	6:N:443:U:C5'	2.16	0.71
4:L:815:U:O2'	4:L:816:U:C5'	2.20	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
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
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
6:N:497:U:C3'	6:N:498:U:C5'	2.46	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
2:J:129:A:C4	2:J:130:A:C8	2.78	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
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
5:M:319:U:C2'	5:M:320:U:O5'	2.37	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
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
1:I:106:A:C4	1:I:107:A:C8	2.78	0.71
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
5:M:349:U:H2'	5:M:350:U:C5'	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:279:A:C2	1:I:280:A:N9	2.58	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
6:N:496:U:H2'	6:N:497:U:C6	2.25	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
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: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
5:M:423:U:C2	5:M:424:U:C5	2.77	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
1:I:334:A:C2	4:L:492:U:C2	2.78	0.71
3:K:173:A:C2'	3:K:174:A:H5'	2.19	0.71
6:N:423:U:C2'	6:N:424:U:C5'	2.68	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
4:L:791:U:O2'	4:L:792:U:C5'	2.35	0.71
1:I:183:A:N3	1:I:184:A:N9	2.39	0.71
5:M:347:U:HO2'	5:M:348:U:H5'	0.90	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
6:N:487:U:O4	6:N:488:U:O4	2.08	0.71
1:I:30:A:C2	1:I:31:A:C8	2.78	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
2:J:176:A:O2'	2:J:177:A:O5'	2.09	0.71
5:M:543:U:H2'	5:M:544:U:H6	1.56	0.71
2:J:224:A:C2	2:J:225:A:C8	2.78	0.71
1:I:317:A:C2'	1:I:318:A:C5'	2.65	0.71
3:K:106:A:C4	3:K:107:A:C8	2.79	0.71
3:K:105:A:C6	3:K:106:A:N6	2.58	0.71
3:K:137:A:HO2'	3:K:138:A:H5'	1.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:58:A:N6	1:I:59:A:N6	2.39	0.71
4:L:742:U:O2	4:L:743:U:C6	2.42	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
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
6:N:490:U:N3	6:N:491:U:C5	2.59	0.71
3:K:18:A:N6	3:K:19:A:N6	2.38	0.71
2:J:58:A:N3	2:J:59:A:C8	2.59	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
5:M:319:U:C2	5:M:320:U:C6	2.79	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
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
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
6:N:449:U:C2	6:N:450:U:C6	2.79	0.71
1:I:55:A:C2	1:I:56:A:N9	2.58	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
4:L:699:U:N3	4:L:700:U:C5	2.59	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
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
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
6:N:484:U:O2'	6:N:485:U:O4'	2.09	0.71
2:J:159:A:C5	2:J:160:A:N7	2.59	0.71
1:I:300:A:N3	1:I:301:A:C8	2.59	0.71
2:J:117:A:O2'	2:J:118:A:P	2.48	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
5:M:367:U:C2	5:M:368:U:C5	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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:64:A:O2'	1:I:65:A:C5'	2.33	0.71
4:L:767:U:C2'	4:L:768:U:H6	2.03	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:210:A:C4	2:J:211:A:C8	2.79	0.71
3:K:181:A:O2'	3:K:182:A:P	2.47	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
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
5:M:369:U:H2'	5:M:370:U:O5'	1.90	0.71
4:L:472:U:H2'	4:L:473:U:C6	2.25	0.71
3:K:152:A:C5	3:K:153:A:N7	2.59	0.71
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
6:N:395:U:C2	6:N:396:U:C6	2.79	0.71
3:K:254:A:C2'	3:K:255:A:C5'	2.68	0.71
6:N:281:U:H2'	6:N:282:U:O5'	1.90	0.71
1:I:111:A:H2'	1:I:112:A:H8	1.55	0.71
4:L:672:U:N3	4:L:673:U:C4	2.59	0.71
1:I:250:A:C2'	1:I:251:A:C8	2.72	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
1:I:373:A:C6	1:I:374:A:N6	2.59	0.71
3:K:209:A:H2'	3:K:210:A:C8	2.25	0.71
1:I:298:A:O2'	1:I:299:A:H5'	1.91	0.71
1:I:402:A:O2'	1:I:403:A:H5'	1.90	0.71
3:K:191:A:H2'	3:K:192:A:H8	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:288:U:C2	5:M:289:U:C5	2.77	0.71
6:N:349:U:C2	6:N:350:U:C6	2.79	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: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
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
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
6:N:408:U:O2'	6:N:409:U:H5'	1.91	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
4:L:744:U:C2	4:L:745:U:C5	2.79	0.71
1:I:137:A:C5	1:I:138:A:N7	2.59	0.71
4:L:666:U:C2	4:L:667:U:C5	2.79	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
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
6:N:488:U:H2'	6:N:489:U:H6	1.54	0.71
1:I:387:A:H2'	1:I:388:A:O4'	1.90	0.71
2:J:51:A:C2'	2:J:52:A:H8	2.04	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
2:J:225:A:C2	2:J:226:A:C5	2.78	0.71
4:L:500:U:C2	4:L:501:U:C6	2.79	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
3:K:99:A:O2'	3:K:100:A:C4'	2.39	0.71
6:N:473:U:N3	6:N:474:U:C4	2.59	0.71
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
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
4:L:706:U:C2	4:L:707:U:C5	2.79	0.71
5:M:346:U:HO2'	5:M:347:U:C5'	1.87	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:348:U:O4	5:M:349:U:O4	2.06	0.71
1:I:213:A:O2'	1:I:214:A:H5'	1.90	0.71
4:L:566:U:C2	4:L:567:U:C6	2.79	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
4:L:458:U:O2'	4:L:459:U:H5'	1.91	0.71
6:N:326:U:C2	6:N:327:U:C5	2.78	0.71
1:I:405:A:C6	1:I:406:A:N6	2.58	0.71
4:L:447:U:C3'	4:L:448:U:P	2.79	0.71
2:J:123:A:H2'	2:J:124:A:C8	2.25	0.70
2:J:99:A:C4	2:J:100:A:C8	2.79	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
5:M:322:U:H2'	5:M:323:U:H6	1.56	0.70
1:I:338:A:N6	1:I:339:A:H62	1.88	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
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
4:L:746:U:H2'	4:L:747:U:O5'	1.89	0.70
1:I:143:A:C2'	1:I:144:A:H8	2.01	0.70
2:J:203:A:H2'	2:J:204:A:H8	1.55	0.70
1:I:240:A:C4	1:I:241:A:C8	2.79	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
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
4:L:437:U:O2	4:L:438:U:C5	2.44	0.70
3:K:220:A:H2'	3:K:221:A:C8	2.26	0.70
3:K:47:A:C5	3:K:48:A:N7	2.58	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: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
5:M:530:U:H2'	5:M:531:U:C4'	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:215:A:O2'	2:J:216:A:C5'	2.38	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
1:I:323:A:C4	1:I:324:A:C8	2.79	0.70
4:L:517:U:O2'	4:L:518:U:C5'	2.31	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
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
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:9:A:C2	1:I:10:A:C8	2.79	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
3:K:250:A:C2	3:K:251:A:C8	2.78	0.70
4:L:690:U:C4	4:L:691:U:C5	2.78	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
4:L:572:U:C2	4:L:573:U:C6	2.80	0.70
2:J:265:A:H2	2:J:266:A:C4	2.09	0.70
1:I:203:A:O2'	1:I:204:A:H5'	1.90	0.70
1:I:386:A:C5	1:I:387:A:N7	2.60	0.70
2:J:122:A:N6	2:J:123:A:H61	1.87	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
2:J:219:A:C2	2:J:220:A:C4	2.80	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
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: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
1:I:156:A:C6	1:I:157:A:C6	2.78	0.70
4:L:641:U:C2	4:L:642:U:C6	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:646:U:H2'	4:L:647:U:H6	1.56	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
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
6:N:484:U:C3'	6:N:485:U:P	2.79	0.70
2:J:161:A:H2'	2:J:162:A:O5'	1.90	0.70
6:N:320:U:H2'	6:N:321:U:C6	2.26	0.70
2:J:143:A:C2	2:J:144:A:C1'	2.74	0.70
2:J:69:A:C2	2:J:70:A:C4	2.80	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
6:N:425:U:C4	6:N:426:U:O4	2.45	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
4:L:762:U:C2'	4:L:763:U:O5'	2.40	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
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
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
6:N:484:U:HO2'	6:N:485:U:C4'	2.04	0.70
6:N:489:U:H2'	6:N:490:U:H6	1.55	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
6:N:526:U:H2'	6:N:527:U:H6	1.56	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
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
1:I:327:A:C2	1:I:328:A:C5	2.79	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:780:U:C2	4:L:781:U:C6	2.80	0.70
3:K:249:A:O2'	3:K:250:A:C5'	2.32	0.70
1:I:163:A:C2'	1:I:164:A:H5'	2.18	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
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
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
1:I:376:A:N3	1:I:377:A:C8	2.59	0.70
2:J:264:A:H2'	2:J:265:A:H8	1.57	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
6:N:296:U:C2	6:N:297:U:C5	2.80	0.70
2:J:123:A:C2'	2:J:124:A:C5'	2.70	0.70
2:J:125:A:N6	2:J:126:A:H62	1.88	0.70
2:J:34:A:C2	2:J:35:A:C5	2.80	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
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
3:K:96:A:C2	3:K:97:A:C4	2.80	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
4:L:718:U:H2'	4:L:719:U:C6	2.20	0.70
4:L:717:U:O4	4:L:718:U:O4	2.09	0.70
1:I:225:A:N6	1:I:226:A:N6	2.39	0.70
6:N:487:U:N3	6:N:488:U:C4	2.59	0.70
1:I:401:A:N6	1:I:402:A:N6	2.39	0.70
5:M:290:U:O2'	5:M:291:U:C5'	2.37	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:72:A:C4	2:J:73:A:C8	2.79	0.70
5:M:393:U:C4	5:M:394:U:O4	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:454:U:N3	5:M:455:U:C4	2.60	0.70
5:M:310:U:O2'	5:M:311:U:H5'	1.90	0.70
1:I:330:A:O2'	1:I:331:A:C5'	2.31	0.70
4:L:496:U:C2	4:L:497:U:C6	2.80	0.70
3:K:138:A:N3	3:K:139:A:C8	2.59	0.70
3:K:87:A:C6	3:K:88:A:N7	2.60	0.70
6:N:388:U:O2'	6:N:389:U:C5'	2.39	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
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
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
2:J:204:A:C2'	2:J:205:A:H8	2.03	0.70
1:I:256:A:C5	1:I:257:A:N7	2.60	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
6:N:487:U:C4	6:N:488:U:C4	2.79	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
1:I:403:A:O2'	1:I:404:A:O4'	2.09	0.70
3:K:34:A:H2'	3:K:35:A:H8	1.55	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: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
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
3:K:130:A:C2'	3:K:131:A:C5'	2.70	0.70
3:K:63:A:HO2'	3:K:64:A:H5'	1.55	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: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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:637:U:C4	4:L:638:U:C4	2.80	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
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
4:L:564:U:HO2'	4:L:565:U:H5'	1.57	0.70
1:I:372:A:C2'	1:I:373:A:C5'	2.68	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
2:J:89:A:C4	2:J:90:A:N7	2.59	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
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
1:I:334:A:C4	1:I:335:A:C8	2.80	0.70
4:L:482:U:O2'	4:L:483:U:H5'	1.92	0.70
3:K:71:A:O2'	3:K:72:A:C5'	2.40	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
3:K:253:A:C2	3:K:254:A:C4	2.80	0.70
4:L:581:U:H2'	4:L:582:U:H6	1.56	0.70
4:L:431:U:H2'	4:L:432:U:H6	1.55	0.70
5:M:304:U:C4	5:M:305:U:O4	2.45	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
5:M:482:U:O2	5:M:483:U:C6	2.45	0.70
1:I:336:A:C2'	1:I:337:A:H5'	2.22	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
3:K:65:A:C6	3:K:66:A:C6	2.79	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:16:A:C6	1:I:17:A:C5	2.80	0.70
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:698:U:H2'	4:L:699:U:O4'	1.92	0.70
2:J:248:A:C6	2:J:249:A:C5	2.80	0.70
4:L:435:U:C2'	4:L:436:U:H5'	2.21	0.70
2:J:270:A:C3'	2:J:271:A:P	2.79	0.70
2:J:103:A:C2	2:J:104:A:C4	2.79	0.69
5:M:368:U:C2	5:M:369:U:C6	2.80	0.69
4:L:496:U:C2'	4:L:497:U:H5'	2.20	0.69
3:K:108:A:C4	3:K:109:A:C8	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:79:A:C2	1:I:80:A:C4	2.80	0.69
4:L:766:U:C4	4:L:767:U:C5	2.80	0.69
2:J:206:A:H2'	2:J:207:A:O4'	1.91	0.69
1:I:226:A:C2	1:I:227:A:C5	2.80	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
2:J:156:A:HO2'	2:J:157:A:H5'	1.54	0.69
3:K:38:A:H2'	3:K:39:A:H8	1.56	0.69
2:J:191:A:O2'	2:J:192:A:C5'	2.31	0.69
2:J:73:A:C2	2:J:74:A:C5	2.81	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
5:M:316:U:C4	5:M:317:U:C5	2.79	0.69
1:I:323:A:N3	1:I:324:A:C1'	2.54	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
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
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
6:N:375:U:N3	6:N:376:U:C5	2.61	0.69
1:I:78:A:C4	1:I:79:A:N7	2.59	0.69
4:L:749:U:H2'	4:L:750:U:O5'	1.90	0.69
1:I:180:A:C2	1:I:181:A:C1'	2.75	0.69
5:M:354:U:O2	5:M:355:U:C5	2.46	0.69
1:I:286:A:H2'	1:I:287:A:C8	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:602:U:C2	4:L:603:U:C6	2.80	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
2:J:249:A:H2'	2:J:250:A:C5'	2.22	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
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
5:M:335:U:H2'	5:M:336:U:O4'	1.92	0.69
4:L:519:U:C2	4:L:520:U:C5	2.80	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
6:N:400:U:C2	6:N:401:U:C6	2.80	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
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
4:L:805:U:H2'	4:L:806:U:C6	2.24	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
4:L:662:U:C4	4:L:663:U:O4	2.45	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
4:L:540:U:O2	4:L:541:U:C6	2.46	0.69
1:I:355:A:H3'	1:I:356:A:P	2.32	0.69
3:K:204:A:C6	3:K:205:A:C6	2.81	0.69
3:K:34:A:H2'	3:K:35:A:C8	2.28	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
2:J:124:A:C2	2:J:125:A:C8	2.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:340:A:C2	1:I:341:A:C8	2.81	0.69
3:K:165:A:C4	3:K:166:A:C8	2.79	0.69
3:K:95:A:H2'	3:K:96:A:C5'	2.23	0.69
6:N:435:U:H2'	6:N:436:U:H6	1.56	0.69
1:I:72:A:O2'	1:I:73:A:H5'	1.91	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
1:I:119:A:C4	1:I:120:A:C8	2.80	0.69
4:L:637:U:C2	4:L:638:U:C6	2.80	0.69
2:J:207:A:C4	2:J:208:A:C8	2.81	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
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
6:N:497:U:C2'	6:N:498:U:C4'	2.67	0.69
1:I:300:A:C2	1:I:301:A:C8	2.80	0.69
3:K:45:A:O2'	3:K:46:A:C4'	2.41	0.69
6:N:526:U:H2'	6:N:527:U:C6	2.27	0.69
2:J:174:A:H2'	2:J:175:A:H8	1.57	0.69
2:J:6:A:C2	2:J:7:A:N7	2.60	0.69
2:J:79:A:HO2'	2:J:80:A:H5'	1.54	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
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
4:L:496:U:C2'	4:L:497:U:C5'	2.71	0.69
3:K:120:A:N1	3:K:121:A:C5	2.59	0.69
3:K:65:A:H62	3:K:66:A:H62	1.39	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: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
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
1:I:137:A:N6	1:I:138:A:N6	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:143:A:H2'	1:I:144:A:N7	2.06	0.69
1:I:160:A:C2'	1:I:161:A:H5'	2.22	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
2:J:201:A:C6	2:J:202:A:N7	2.60	0.69
1:I:259:A:C4	1:I:260:A:C8	2.80	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:466:U:H2'	4:L:467:U:C5'	2.22	0.69
6:N:323:U:O2'	6:N:324:U:C5'	2.36	0.69
6:N:293:U:C2'	6:N:294:U:C6	2.73	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:181:A:O2'	2:J:182:A:H5'	1.92	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
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
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
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
3:K:167:A:H2'	3:K:168:A:O4'	1.93	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:C2	1:I:114:A:C5	2.81	0.69
1:I:188:A:C2'	1:I:189:A:H5'	2.22	0.69
4:L:701:U:O2'	4:L:702:U:H5'	1.92	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
4:L:582:U:H2'	4:L:583:U:H6	1.57	0.69
6:N:301:U:H2'	6:N:302:U:H6	1.56	0.69
2:J:118:A:N3	2:J:119:A:C8	2.60	0.69
2:J:171:A:N1	2:J:172:A:N6	2.40	0.69
2:J:68:A:N6	2:J:69:A:N6	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:404:U:C2	5:M:405:U:C5	2.80	0.69
1:I:330:A:H2'	1:I:331:A:C5'	2.22	0.69
3:K:150:A:C2	3:K:151:A:C5	2.81	0.69
3:K:97:A:H2'	3:K:98:A:C4'	2.22	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
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
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
4:L:706:U:C2	4:L:707:U:C6	2.81	0.69
1:I:254:A:H2'	1:I:255:A:C5'	2.23	0.69
4:L:585:U:C2'	4:L:586:U:O5'	2.39	0.69
4:L:461:U:C2	4:L:462:U:C5	2.80	0.69
2:J:165:A:C6	2:J:166:A:N6	2.61	0.69
3:K:213:A:H2'	3:K:214:A:H8	1.56	0.69
6:N:322:U:C3'	6:N:323:U:P	2.80	0.69
4:L:445:U:C3'	4:L:446:U:P	2.81	0.69
3:K:239:A:HO2'	3:K:240:A:H5'	1.57	0.69
2:J:183:A:H2'	2:J:184:A:C4'	2.22	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
2:J:100:A:C2	2:J:101:A:C4	2.81	0.69
2:J:69:A:C3'	2:J:70:A:C5'	2.51	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
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
3:K:168:A:C2'	3:K:169:A:O5'	2.41	0.69
6:N:384:U:C2	6:N:385:U:C5	2.80	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
3:K:156:A:HO2'	3:K:157:A:C4'	2.05	0.69
3:K:59:A:HO2'	3:K:60:A:H5'	1.58	0.69
3:K:90:A:C2	3:K:91:A:C4	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
1:I:26:A:HO2'	1:I:27:A:H5'	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:56:A:H2'	1:I:57:A:O5'	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
6:N:279:U:N3	6:N:280:U:C5	2.61	0.69
4:L:661:U:HO2'	4:L:662:U:C5'	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
2:J:206:A:C2	2:J:207:A:N9	2.60	0.69
5:M:353:U:C2	5:M:354:U:C5	2.81	0.69
2:J:209:A:C2'	2:J:210:A:C5'	2.71	0.69
1:I:223:A:H2'	1:I:224:A:H8	1.58	0.69
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
4:L:601:U:H2'	4:L:602:U:C6	2.26	0.69
1:I:224:A:H2'	1:I:225:A:H8	1.58	0.69
4:L:564:U:C2'	4:L:565:U:C5'	2.71	0.69
6:N:273:U:H2'	6:N:274:U:C6	2.28	0.69
2:J:159:A:C6	2:J:160:A:N6	2.61	0.69
6:N:316:U:C2'	6:N:317:U:H6	2.05	0.69
2:J:252:A:HO2'	2:J:253:A:H5'	1.57	0.69
5:M:289:U:C2	5:M:290:U:C5	2.81	0.69
3:K:228:A:O2'	3:K:229:A:H5'	1.93	0.69
2:J:191:A:C4	2:J:192:A:C8	2.81	0.69
2:J:29:A:N1	2:J:30:A:C4	2.60	0.69
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
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
1:I:328:A:O2'	1:I:329:A:H5'	1.93	0.69
4:L:509:U:H2'	4:L:510:U:C6	2.28	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
3:K:71:A:O2'	3:K:72:A:O5'	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:25:A:N3	1:I:26:A:C8	2.61	0.69
1:I:42:A:HO2'	1:I:43:A:H5'	1.55	0.69
1:I:44:A:H2'	1:I:45:A:O5'	1.92	0.69
4:L:783:U:H2'	4:L:784:U:H6	1.57	0.69
1:I:143:A:C2'	1:I:144:A:C8	2.68	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
1:I:243:A:C4	1:I:244:A:C8	2.81	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
6:N:501:U:O2'	6:N:502:U:C5'	2.38	0.69
3:K:15:A:C3'	3:K:16:A:P	2.81	0.69
2:J:124:A:H2'	2:J:125:A:H8	1.56	0.69
5:M:361:U:O2'	5:M:362:U:H5'	1.93	0.69
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
4:L:472:U:O2	4:L:473:U:C6	2.46	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
6:N:419:U:C2	6:N:420:U:C5	2.80	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
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
1:I:133:A:C4	1:I:134:A:C8	2.80	0.69
4:L:661:U:O2'	4:L:662:U:P	2.50	0.69
1:I:241:A:H2'	1:I:242:A:H8	1.58	0.69
4:L:541:U:HO2'	4:L:542:U:H5'	1.55	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
2:J:265:A:C2	2:J:266:A:N7	2.61	0.69
1:I:33:A:HO2'	1:I:34:A:H5'	0.86	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:305:U:H2'	6:N:306:U:O4'	1.91	0.69
6:N:349:U:O2'	6:N:350:U:C5'	2.41	0.69
2:J:69:A:H2'	2:J:70:A:C4'	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:328:U:O2	5:M:329:U:C6	2.45	0.68
4:L:533:U:O2'	4:L:534:U:C5'	2.31	0.68
3:K:102:A:N1	3:K:103:A:C5	2.61	0.68
3:K:96:A:H2'	3:K:97:A:H8	1.56	0.68
6:N:471:U:HO2'	6:N:472:U:H5'	1.58	0.68
1:I:13:A:C6	1:I:14:A:C6	2.81	0.68
1:I:13:A:N1	1:I:14:A:C5	2.60	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
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
2:J:206:A:N3	2:J:207:A:C8	2.61	0.68
4:L:564:U:C2	4:L:565:U:C5	2.81	0.68
1:I:375:A:C2	1:I:376:A:C8	2.81	0.68
4:L:423:U:H2'	4:L:424:U:H6	1.57	0.68
6:N:294:U:H2'	6:N:295:U:C6	2.26	0.68
5:M:286:U:C2	5:M:287:U:C5	2.81	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
2:J:39:A:C2'	2:J:40:A:C5'	2.71	0.68
5:M:523:U:O2'	5:M:524:U:P	2.46	0.68
4:L:519:U:N3	4:L:520:U:C5	2.61	0.68
3:K:151:A:H2'	3:K:152:A:H8	1.57	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
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
1:I:101:A:HO2'	1:I:102:A:P	2.16	0.68
1:I:102:A:C2	1:I:103:A:C4	2.81	0.68
4:L:684:U:H2'	4:L:685:U:C6	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:266:A:C4	1:I:267:A:C8	2.81	0.68
6:N:499:U:C2	6:N:500:U:C5	2.81	0.68
4:L:459:U:H2'	4:L:460:U:C5'	2.22	0.68
2:J:250:A:O2'	2:J:251:A:H5'	1.93	0.68
3:K:212:A:C4	3:K:213:A:N7	2.61	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
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
1:I:337:A:C2	1:I:338:A:C4	2.81	0.68
6:N:454:U:H2'	6:N:455:U:C5'	2.23	0.68
1:I:78:A:N3	1:I:79:A:N9	2.40	0.68
4:L:727:U:C2	4:L:728:U:C5	2.81	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
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
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
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
1:I:296:A:H2'	1:I:297:A:C5'	2.22	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
2:J:131:A:N6	2:J:132:A:H62	1.89	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
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
4:L:487:U:C2'	4:L:488:U:O4'	2.42	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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:806:U:H2'	4:L:807:U:O4'	1.93	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
4:L:583:U:C2	4:L:584:U:C6	2.82	0.68
2:J:235:A:O2'	2:J:236:A:H5'	1.94	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
2:J:101:A:H2'	2:J:102:A:H8	1.59	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:77:A:C2'	3:K:78:A:H5'	2.23	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
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
4:L:722:U:HO2'	4:L:723:U:P	2.07	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
4:L:546:U:O2'	4:L:547:U:C5'	2.40	0.68
6:N:493:U:H2'	6:N:494:U:C6	2.28	0.68
4:L:419:U:C2	4:L:420:U:C5	2.81	0.68
3:K:236:A:H2'	3:K:237:A:H8	1.59	0.68
6:N:525:U:O2'	6:N:526:U:H5'	1.92	0.68
5:M:298:U:C2'	5:M:299:U:C5'	2.71	0.68
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: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
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
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
4:L:626:U:C2	4:L:627:U:C5	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:687:U:C2	4:L:688:U:C5	2.82	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: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
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: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
5:M:360:U:O2'	5:M:361:U:C5'	2.40	0.68
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
2:J:224:A:C6	2:J:225:A:C5	2.81	0.68
5:M:321:U:C2	5:M:322:U:C5	2.82	0.68
3:K:167:A:C6	3:K:168:A:C6	2.82	0.68
3:K:89:A:C2	3:K:90:A:C4	2.81	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
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
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
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
4:L:627:U:HO2'	4:L:628:U:H5'	1.57	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
2:J:200:A:C2	2:J:201:A:C4	2.82	0.68
1:I:278:A:H2'	1:I:279:A:H8	1.54	0.68
4:L:563:U:N3	4:L:564:U:C4	2.62	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:360:A:C2'	1:I:361:A:H5'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:195:A:C6	3:K:196:A:N6	2.62	0.68
2:J:11:A:O2'	2:J:12:A:C4'	2.41	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:29:A:C2'	2:J:30:A:C4'	2.68	0.68
2:J:223:A:C6	2:J:224:A:C5	2.82	0.68
3:K:121:A:N6	3:K:122:A:H62	1.89	0.68
1:I:22:A:HO2'	1:I:23:A:H5'	1.58	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
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
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:652:U:C2'	4:L:653:U:H5'	2.24	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
4:L:577:U:N3	4:L:578:U:C4	2.62	0.68
4:L:424:U:N3	4:L:425:U:C4	2.62	0.68
3:K:13:A:C3'	3:K:14:A:P	2.82	0.68
6:N:348:U:H2'	6:N:349:U:C6	2.28	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
2:J:99:A:C2	2:J:100:A:C5	2.81	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
5:M:335:U:H2'	5:M:336:U:H6	1.57	0.68
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
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:49:A:H2'	1:I:50:A:O5'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:462:U:C2	4:L:463:U:C5	2.82	0.68
4:L:424:U:O4	4:L:425:U:O4	2.11	0.68
6:N:311:U:O2'	6:N:312:U:C5'	2.41	0.68
3:K:181:A:O2'	3:K:182:A:H5'	1.93	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
5:M:316:U:C4	5:M:317:U:C4	2.81	0.68
4:L:517:U:H2'	4:L:518:U:H6	1.59	0.68
3:K:121:A:C4	3:K:122:A:C8	2.81	0.68
3:K:99:A:C4	3:K:100:A:C8	2.81	0.68
6:N:374:U:H2'	6:N:375:U:C6	2.26	0.68
6:N:380:U:C2	6:N:381:U:C6	2.82	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
1:I:113:A:C2'	1:I:114:A:O4'	2.41	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
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:N3	1:I:271:A:C1'	2.57	0.68
1:I:270:A:N1	1:I:271:A:C4	2.62	0.68
4:L:549:U:C2'	4:L:550:U:C4'	2.72	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:191:A:H2'	3:K:192:A:C8	2.28	0.68
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
2:J:21:A:HO2'	2:J:22:A:H5'	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:316:A:C6	1:I:317:A:N6	2.62	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
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
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
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
4:L:821:U:HO2'	4:L:822:U:H5'	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
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
1:I:235:A:O2'	1:I:236:A:H5'	1.94	0.67
6:N:483:U:N3	6:N:484:U:C5	2.62	0.67
4:L:463:U:H2'	4:L:464:U:H6	1.57	0.67
4:L:425:U:H2'	4:L:426:U:O4'	1.94	0.67
3:K:46:A:C3'	3:K:47:A:P	2.82	0.67
2:J:116:A:O2'	2:J:117:A:P	2.53	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
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
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:54:A:C2	3:K:55:A:C5	2.81	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
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
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)
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
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
1:I:252:A:C2	1:I:253:A:N9	2.61	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:423:U:C2	4:L:424:U:C5	2.81	0.67
3:K:212:A:C5	3:K:213:A:N7	2.62	0.67
6:N:333:U:H2'	6:N:334:U:C6	2.28	0.67
1:I:400:A:H2'	1:I:401:A:C8	2.29	0.67
3:K:38:A:C2	3:K:39:A:C8	2.83	0.67
5:M:288:U:C2'	5:M:289:U:H5'	2.23	0.67
2:J:153:A:H2'	2:J:154:A:O5'	1.92	0.67
2:J:71:A:C6	2:J:72:A:C6	2.82	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
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
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
6:N:413:U:N3	6:N:414:U:C5	2.62	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
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
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
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
1:I:135:A:HO2'	1:I:136:A:H5'	1.52	0.67
1:I:180:A:C4	1:I:181:A:C8	2.82	0.67
4:L:668:U:C2'	4:L:669:U:H6	2.01	0.67
1:I:236:A:C4	1:I:237:A:C8	2.81	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:240:A:HO2'	1:I:241:A:H5'	1.57	0.67
1:I:247:A:N6	1:I:248:A:H62	1.92	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:420:U:H2'	4:L:421:U:H6	1.55	0.67
3:K:206:A:H2'	3:K:207:A:O4'	1.93	0.67
2:J:253:A:H2'	2:J:254:A:H8	1.57	0.67
2:J:128:A:C4	2:J:129:A:C8	2.83	0.67
2:J:87:A:C2	2:J:88:A:C5	2.82	0.67
2:J:219:A:C2	2:J:220:A:N9	2.63	0.67
4:L:506:U:C2'	4:L:507:U: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
6:N:437:U:H2'	6:N:438:U:C6	2.29	0.67
1:I:60:A:C6	1:I:61:A:N6	2.63	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
3:K:254:A:C5	3:K:255:A:N7	2.62	0.67
4:L:627:U:O2'	4:L:628:U:C5'	2.38	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:165:A:C2	2:J:166:A:C8	2.83	0.67
3:K:197:A:H2'	3:K:198:A:C8	2.29	0.67
3:K:45:A:C2'	3:K:46:A:C5'	2.72	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
5:M:481:U:C4	5:M:482:U:O4	2.47	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
1:I:13:A:O2'	1:I:14:A:C5'	2.42	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
1:I:197:A:N3	1:I:198:A:C8	2.62	0.67
4:L:712:U:H2'	4:L:713:U:H6	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:721:U:O2	4:L:722:U:C1'	2.43	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
4:L:585:U:HO2'	4:L:586:U:H5'	0.84	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
6:N:492:U:C2'	6:N:493:U:H5'	2.23	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
3:K:178:A:C3'	3:K:179:A:P	2.83	0.67
5:M:295:U:H2'	5:M:296:U:C6	2.29	0.67
2:J:18:A:H2'	2:J:19:A:H8	1.60	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
2:J:223:A:C5	2:J:224:A:N7	2.63	0.67
1:I:341:A:C4	1:I:342:A:C8	2.81	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
3:K:131:A:H61	3:K:132:A:N6	1.91	0.67
3:K:71:A:C4	3:K:72:A:C8	2.82	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
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:94:A:HO2'	1:I:95:A:H5'	1.59	0.67
1:I:159:A:N3	1:I:160:A:C8	2.63	0.67
2:J:205:A:N3	2:J:206:A:C8	2.62	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
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
1:I:364:A:N3	1:I:365:A:C8	2.62	0.67
2:J:230:A:C2	2:J:231:A:C4	2.83	0.67
3:K:179:A:HO3'	3:K:180:A:P	2.15	0.67
2:J:147:A:C2	2:J:148:A:N7	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:M:337:U:H2'	5:M:338:U:O4'	1.95	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
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
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: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
6:N:278:U:H2'	6:N:279:U:H5'	1.76	0.67
1:I:140:A:H2'	1:I:141:A:C8	2.30	0.67
4:L:631:U:O2'	4:L:632:U:C5'	2.38	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:353:A:C2	1:I:354:A:C4	2.82	0.67
1:I:292:A:C2	1:I:293:A:C8	2.83	0.67
3:K:49:A:H2'	3:K:50:A:H8	1.60	0.67
2:J:184:A:C2'	2:J:185:A:C5'	2.72	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
2:J:214:A:C2'	2:J:215:A:O5'	2.43	0.67
5:M:334:U:O2	5:M:335:U:C1'	2.42	0.67
3:K:103:A:N3	3:K:104:A:C8	2.62	0.67
3:K:64:A:H2'	3:K:65:A:O4'	1.95	0.67
6:N:435:U:O2'	6:N:436:U:C5'	2.42	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
4:L:584:U:C2	4:L:585:U:C5	2.83	0.67
1:I:202:A:H2'	1:I:203:A:O5'	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:160:A:C4	2:J:161:A:C8	2.83	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
1:I:405:A:C5	1:I:406:A:N7	2.63	0.67
3:K:38:A:O2'	3:K:39:A:P	2.53	0.67
5:M:300:U:C2'	5:M:301:U:C5'	2.72	0.67
2:J:123:A:H2'	2:J:124:A:H8	1.60	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
5:M:449:U:C2'	5:M:450:U:O5'	2.43	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
5:M:328:U:N3	5:M:329:U:C5	2.63	0.67
4:L:525:U:H2'	4:L:526:U:H6	1.60	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
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
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
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
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
6:N:320:U:H2'	6:N:321:U:O4'	1.95	0.67
3:K:182:A:H2'	3:K:183:A:H8	1.59	0.67
3:K:229:A:H2'	3:K:230:A:C8	2.30	0.67
3:K:187:A:O2'	3:K:188:A:H5'	1.95	0.67
2:J:127:A:N3	2:J:128:A:C8	2.63	0.67
2:J:73:A:O2'	2:J:74:A:H5'	1.95	0.67
5:M:495:U:H2'	5:M:496:U:C5'	2.24	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
4:L:490:U:C2	4:L:491:U:C5	2.83	0.67
3:K:152:A:C4	3:K:153:A:N7	2.63	0.67
6:N:392:U:N3	6:N:393:U:C5	2.62	0.67
1:I:65:A:N3	1:I:66:A:C8	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:77:A:O2'	1:I:78:A:H5'	1.95	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
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
5:M:347:U:H2'	5:M:348:U:O4'	1.94	0.67
1:I:206:A:C2	1:I:207:A:C8	2.83	0.67
4:L:611:U:C2'	4:L:612:U:H5'	2.25	0.67
2:J:247:A:N3	2:J:248:A:C8	2.62	0.67
1:I:393:A:O2'	1:I:394:A:H5'	1.95	0.67
3:K:43:A:H2'	3:K:44:A:C8	2.29	0.67
2:J:254:A:C4	2:J:255:A:C8	2.83	0.67
2:J:102:A:H2'	2:J:103:A:O4'	1.95	0.66
2:J:101:A:H61	2:J:102:A:N6	1.86	0.66
2:J:147:A:C2	2:J:148:A:C8	2.82	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: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
5:M:330:U:O2	5:M:331:U:C6	2.48	0.66
3:K:88:A:N1	3:K:89:A:C5	2.64	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: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
4:L:777:U:C4	4:L:778:U:C5	2.82	0.66
1:I:157:A:O2'	1:I:158:A:C5'	2.37	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
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
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
2:J:155:A:H2'	2:J:156:A:H8	1.60	0.66
6:N:333:U:C2'	6:N:334:U:H5'	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:494:U:H2'	5:M:495:U:H6	1.59	0.66
3:K:166:A:C4	3:K:167:A:C8	2.83	0.66
6:N:376:U:N3	6:N:377:U:C4	2.63	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
4:L:752:U:N3	4:L:753:U:C5	2.63	0.66
1:I:140:A:H2'	1:I:141:A:H8	1.60	0.66
4:L:559:U:N3	4:L:560:U:C4	2.63	0.66
6:N:274:U:H2'	6:N:275:U:H6	1.60	0.66
2:J:229:A:H2'	2:J:230:A:C8	2.31	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:64:A:C4	2:J:65:A:N7	2.64	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
5:M:526:U:H2'	5:M:527:U:H6	1.59	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
6:N:383:U:C2'	6:N:384:U:H5'	2.25	0.66
6:N:475:U:HO2'	6:N:476:U:H5'	1.60	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:H8	2.07	0.66
1:I:164:A:C2	1:I:165:A:N7	2.63	0.66
1:I:167:A:C2'	1:I:168:A:H5'	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
1:I:232:A:C2	1:I:233:A:C4	2.83	0.66
1:I:231:A:N6	1:I:232:A:H62	1.91	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
4:L:549:U:H2'	4:L:550:U:C4'	2.24	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
6:N:321:U:C2	6:N:322:U:C5	2.83	0.66
5:M:366:U:C2	5:M:367:U:C5	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:335:U:N1	5:M:336:U:C5	2.64	0.66
3:K:136:A:N3	3:K:137:A:C8	2.64	0.66
1:I:26:A:H2'	1:I:27:A:C5'	2.24	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
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
4:L:649:U:C4	4:L:650:U:C5	2.83	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
1:I:264:A:C2	1:I:265:A:C8	2.83	0.66
4:L:611:U:C2'	4:L:612:U:C5'	2.74	0.66
2:J:157:A:O2'	2:J:158:A:C5'	2.40	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
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
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:65:A:H61	3:K:66:A:N6	1.87	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: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
4:L:766:U:N3	4:L:767:U:C5	2.63	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: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:208:A:N6	3:K:209:A:N6	2.43	0.66
2:J:11:A:C3'	2:J:12:A:H5'	2.01	0.66
2:J:145:A:C4	2:J:146:A:C8	2.84	0.66
5:M:324:U:C2	5:M:325:U:C6	2.83	0.66
1:I:332:A:O2'	1:I:333:A:H5'	1.94	0.66
4:L:513:U:C2'	4:L:514:U:C5'	2.72	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:521:U:C2'	4:L:522:U:C5'	2.73	0.66
6:N:431:U:H2'	6:N:432:U:O4'	1.96	0.66
1:I:72:A:C6	1:I:73:A:N7	2.64	0.66
1:I:90:A:C4	1:I:91:A:C8	2.84	0.66
4:L:801:U:O2'	4:L:802:U:H5'	1.95	0.66
1:I:113:A:C2'	1:I:114:A:H8	2.08	0.66
4:L:684:U:O4	4:L:685:U:O4	2.12	0.66
5:M:347:U:O2	5:M:348:U:C6	2.48	0.66
1:I:363:A:H2'	1:I:364:A:H8	1.58	0.66
6:N:321:U:O4	6:N:322:U:O4	2.13	0.66
1:I:393:A:H2'	1:I:394:A:O4'	1.96	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
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
2:J:214:A:H2'	2:J:215:A:C5'	2.25	0.66
5:M:328:U:O2	5:M:329:U:C5	2.49	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
4:L:516:U:C2	4:L:517:U:C6	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
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
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
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
4:L:638:U:C2'	4:L:639:U:C4'	2.73	0.66
4:L:579:U:C2	4:L:580:U:C5	2.83	0.66
6:N:274:U:C2'	6:N:275:U:C5'	2.73	0.66
4:L:424:U:H2'	4:L:425:U:H6	1.61	0.66
3:K:217:A:C6	3:K:218:A:N6	2.64	0.66
6:N:321:U:N3	6:N:322:U:C4	2.64	0.66
2:J:271:A:C3'	2:J:272:A:P	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:175:A:O2'	2:J:176:A:H5'	1.96	0.66
2:J:70:A:C4	2:J:71:A:C8	2.84	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
5:M:329:U:C2	5:M:330:U:C5	2.83	0.66
1:I:310:A:C4	1:I:311:A:C8	2.84	0.66
4:L:516:U:H2'	4:L:517:U:C6	2.31	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:87:A:C2	3:K:88:A:C8	2.84	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
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
4:L:749:U:C2	4:L:750:U:C6	2.83	0.66
6:N:278:U:H2'	6:N:279:U:C5'	2.26	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
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
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
2:J:159:A:C6	2:J:160:A:C6	2.83	0.66
3:K:204:A:C2'	3:K:205:A:C8	2.77	0.66
1:I:291:A:H2'	1:I:292:A:C5'	2.26	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
1:I:304:A:C2	1:I:305:A:C8	2.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:532:U:C2	4:L:533:U:C6	2.84	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
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
1:I:12:A:N3	1:I:13:A:C8	2.64	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
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
4:L:721:U:H2'	4:L:722:U:C6	2.29	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
6:N:486:U:C2'	6:N:487:U:H6	2.09	0.66
1:I:30:A:N3	1:I:31:A:C8	2.63	0.66
4:L:420:U:C2	4:L:421:U:C5	2.83	0.66
2:J:161:A:C2'	2:J:162:A:O5'	2.42	0.66
1:I:386:A:C4	1:I:387:A:N7	2.63	0.66
2:J:119:A:C6	2:J:120:A:C6	2.84	0.66
2:J:23:A:C2	2:J:24:A:C8	2.84	0.66
2:J:93:A:H2'	2:J:94:A:O4'	1.96	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
5:M:308:U:C3'	5:M:309:U:P	2.82	0.66
3:K:80:A:H2'	3:K:81:A:O4'	1.96	0.66
6:N:427:U:N3	6:N:428:U:C5	2.64	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
4:L:757:U:O4	4:L:758:U:O4	2.14	0.66
6:N:280:U:H2'	6:N:281:U:O5'	1.95	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
4:L:636:U:H2'	4:L:637:U:C6	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:572:U:O2	4:L:573:U:C6	2.49	0.66
2:J:166:A:C4	2:J:167:A:C8	2.84	0.66
1:I:405:A:C6	1:I:406:A:C6	2.84	0.66
4:L:449:U:H2'	4:L:450:U:H6	1.61	0.66
5:M:290:U:H2'	5:M:291:U:O4'	1.95	0.66
2:J:192:A:C2'	2:J:193:A:C5'	2.73	0.65
2:J:48:A:C2'	2:J:49:A:C5'	2.73	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
5:M:324:U:N3	5:M:325:U:C5	2.64	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:73:A:H2'	3:K:74:A:O4'	1.96	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
6:N:450:U:O2'	6:N:451:U:O4'	2.12	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:9:A:N3	1:I:10:A:C8	2.64	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
4:L:724:U:H2'	4:L:725:U:C4'	2.26	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
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
6:N:501:U:C2'	6:N:502:U:C5'	2.74	0.65
3:K:207:A:H2'	3:K:208:A:C8	2.30	0.65
6:N:335:U:C2	6:N:336:U:C5	2.84	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:75:A:HO2'	2:J:76:A:H5'	1.61	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:534:U:H2'	5:M:535:U:H6	1.59	0.65
5:M:336:U:N3	5:M:337:U:C6	2.63	0.65
1:I:317:A:C2	1:I:318:A:C4	2.84	0.65
4:L:507:U:C2	4:L:508:U:C6	2.84	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
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
1:I:42:A:C4	1:I:43:A:C8	2.85	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
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
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
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
4:L:593:U:H2'	4:L:594:U:C6	2.29	0.65
6:N:482:U:N3	6:N:483:U:C5	2.64	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
2:J:236:A:C4	2:J:237:A:N7	2.63	0.65
1:I:406:A:O2'	1:I:407:A:H5'	1.95	0.65
4:L:451:U:C4	4:L:452:U:O4	2.49	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
5:M:330:U:C2	5:M:331:U:C5	2.84	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
3:K:114:A:H2	3:K:115:A:C4	2.12	0.65
3:K:89:A:N1	3:K:90:A:C6	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
4:L:751:U:C2'	4:L:752:U:O5'	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:196:A:C2	1:I:197:A:C8	2.84	0.65
4:L:670:U:H2'	4:L:671:U:H6	1.62	0.65
2:J:205:A:N3	2:J:206:A:N9	2.44	0.65
1:I:273:A:C2'	1:I:274:A:O4'	2.38	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
1:I:375:A:C2	1:I:376:A:N7	2.65	0.65
6:N:294:U:O2'	6:N:295:U:C5'	2.41	0.65
2:J:131:A:C6	2:J:132:A:N6	2.64	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
5:M:318:U:C2	5:M:319:U:C6	2.85	0.65
1:I:338:A:C5	1:I:339:A:N7	2.64	0.65
4:L:478:U:C2'	4:L:479:U:C5'	2.74	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:82:A:C6	1:I:83:A:C6	2.84	0.65
4:L:741:U:C2	4:L:742:U:C5	2.83	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
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
2:J:198:A:C2'	2:J:199:A:H5'	2.25	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
4:L:583:U:C4	4:L:584:U:C4	2.84	0.65
2:J:160:A:HO2'	2:J:161:A:C4'	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:388:A:O2'	1:I:389:A:C4'	2.45	0.65
5:M:302:U:O2'	5:M:303:U:H5'	1.97	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
2:J:39:A:O2'	2:J:40:A:C5'	2.36	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
5:M:469:U:H2'	5:M:470:U:C5	2.31	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:337:A:HO2'	1:I:338:A:C5'	1.87	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
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
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
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
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:150:A:HO2'	1:I:151:A:H5'	1.60	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:583:U:C4	4:L:584:U:O4	2.50	0.65
3:K:204:A:C2'	3:K:205:A:H8	2.10	0.65
1:I:387:A:C2'	1:I:388:A:H5'	2.26	0.65
3:K:4:A:H2'	3:K:5:A:H8	1.61	0.65
6:N:512:U:C2	6:N:513:U:C5	2.85	0.65
2:J:124:A:C2'	2:J:125:A:O5'	2.44	0.65
2:J:69:A:C2'	2:J:70:A:O4'	2.42	0.65
5:M:436:U:H2'	5:M:437:U:C6	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:494:U:C2	5:M:495:U:C5	2.84	0.65
1:I:329:A:N6	1:I:330:A:N6	2.44	0.65
6:N:451:U:C2	6:N:452:U:C6	2.85	0.65
6:N:451:U:H2'	6:N:452:U:C6	2.32	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
4:L:763:U:C2'	4:L:764:U:C6	2.73	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
2:J:233:A:C2'	2:J:234:A:C5'	2.74	0.65
5:M:298:U:C2	5:M:299:U:C6	2.84	0.65
2:J:181:A:C2	2:J:182:A:C8	2.85	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
5:M:392:U:HO2'	5:M:393:U:C4'	2.08	0.65
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
5:M:332:U:N3	5:M:333:U:C5	2.65	0.65
1:I:327:A:C2	1:I:328:A:N7	2.65	0.65
3:K:70:A:O2'	3:K:71:A:H5'	1.96	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
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
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
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
4:L:599:U:C2'	4:L:600:U:H6	2.08	0.65
6:N:489:U:H2'	6:N:490:U:C6	2.32	0.65
1:I:373:A:H61	1:I:374:A:N6	1.87	0.65
2:J:160:A:H2'	2:J:161:A:C8	2.31	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
2:J:151:A:C2'	2:J:152:A:H5'	2.27	0.65
2:J:150:A:O2'	2:J:151:A:H5'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:68:A:C5	2:J:69:A:N7	2.65	0.65
5:M:364:U:HO2'	5:M:365:U:H5'	1.57	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
5:M:337:U:C4	5:M:338:U:C5	2.84	0.65
1:I:314:A:C2'	1:I:315:A:H5'	2.27	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
3:K:120:A:N6	3:K:121:A:H62	1.94	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: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
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
4:L:722:U:C1'	4:L:723:U:H5	2.09	0.65
5:M:350:U:HO2'	5:M:351:U:C5'	1.76	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
4:L:605:U:C2'	4:L:606:U:H5'	2.27	0.65
3:K:204:A:C4	3:K:205:A:N7	2.65	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
1:I:295:A:C2'	1:I:296:A:H5'	2.26	0.65
5:M:288:U:N3	5:M:289:U:C5	2.65	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
1:I:324:A:C2	1:I:325:A:C5	2.85	0.65
4:L:483:U:C2'	4:L:484:U:H5'	2.27	0.65
3:K:71:A:O2'	3:K:72:A:H5'	1.96	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:53:A:O2'	1:I:54:A:C5'	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:814:U:C2'	4:L:815:U:O5'	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
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
5:M:352:U:O2'	5:M:353:U:C5'	2.39	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
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
1:I:377:A:O2'	1:I:378:A:H5'	1.97	0.65
1:I:31:A:N3	1:I:32:A:N7	2.44	0.65
4:L:437:U:O2'	4:L:438:U:P	2.54	0.65
2:J:230:A:H2'	2:J:231:A:O4'	1.96	0.65
2:J:160:A:H2'	2:J:161:A:C5'	2.26	0.65
2:J:253:A:O2'	2:J:254:A:H5'	1.96	0.65
5:M:288:U:C2'	5:M:289:U:C5'	2.74	0.65
3:K:229:A:H2'	3:K:230: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
5:M:509:U:C2	5:M:510:U:C6	2.85	0.65
5:M:517:U:C2	5:M:518:U:C5	2.85	0.65
4:L:516:U:C2'	4:L:517:U:C5'	2.75	0.65
3:K:95:A:C2	3:K:96:A:C4	2.84	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
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
1:I:102:A:C4	1:I:103:A:N7	2.65	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
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:254:A:H2'	2:J:255:A:C5'	2.26	0.65
6:N:521:U:O2'	6:N:522:U:H5'	1.97	0.65
2:J:64:A:C4	2:J:65:A:C8	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:66:A:N3	2:J:67:A:C8	2.64	0.64
5:M:537:U:H2'	5:M:538:U:H5'	1.77	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
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:98:A:C2'	3:K:99:A:H5'	2.26	0.64
6:N:365:U:C2	6:N:366:U:C5	2.85	0.64
3:K:257:A:H2'	3:K:258:A:H8	1.62	0.64
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
4:L:650:U:C2'	4:L:651:U:H5'	2.27	0.64
2:J:200:A:C2	2:J:201:A:C5	2.85	0.64
1:I:253:A:C5	1:I:254:A:N7	2.65	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:466:U:H2'	4:L:467:U:H6	1.63	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
4:L:451:U:C3'	4:L:452:U:OP2	2.45	0.64
5:M:304:U:N3	5:M:305:U:O4	2.30	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
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:O4'	1.97	0.64
5:M:437:U:H2'	5:M:438:U:C5'	2.27	0.64
5:M:519:U:H2'	5:M:520:U:H6	1.61	0.64
2:J:225:A:O2'	2:J:226:A:C5'	2.44	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
3:K:63:A:C3'	3:K:64:A:P	2.84	0.64
3:K:63:A:HO3'	3:K:64:A:P	2.19	0.64
6:N:364:U:H2'	6:N:365:U:O5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:120:A:HO2'	1:I:121:A:H5'	1.61	0.64
1:I:151:A:N3	1:I:152:A:C8	2.65	0.64
2:J:201:A:C4	2:J:202:A:C8	2.84	0.64
1:I:270:A:C2'	1:I:271:A:O5'	2.41	0.64
4:L:580:U:C2	4:L:581:U:C6	2.86	0.64
2:J:161:A:C2	2:J:162:A:N9	2.65	0.64
6:N:330:U:H2'	6:N:331:U:C6	2.31	0.64
2:J:102:A:C4	2:J:103:A:C8	2.85	0.64
2:J:62:A:HO2'	2:J:63:A:H5'	1.62	0.64
2:J:83:A:C5	2:J:84:A:N7	2.66	0.64
5:M:392:U:C2'	5:M:393:U:C4'	2.75	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
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
3:K:119:A:N3	3:K:120:A:C8	2.66	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
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
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
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
2:J:201:A:C6	2:J:202:A:C5	2.85	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
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
4:L:622:U:O2'	4:L:623:U:C4'	2.45	0.64
6:N:495:U:H2'	6:N:496:U:C6	2.30	0.64
1:I:375:A:O2'	1:I:376:A:H5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:318:U:H2'	6:N:319:U:C5	2.32	0.64
6:N:323:U:H2'	6:N:324:U:O4'	1.97	0.64
2:J:123:A:O2'	2:J:124:A:C5'	2.42	0.64
5:M:403:U:O2'	5:M:404:U:H5'	1.96	0.64
5:M:412:U:HO2'	5:M:413:U:H5'	1.61	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
6:N:384:U:O2	6:N:385:U:C6	2.50	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
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
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
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
1:I:229:A:C2	1:I:230:A:C4	2.85	0.64
1:I:235:A:C2	1:I:236:A:C8	2.85	0.64
1:I:235:A:C2	1:I:236:A:C5	2.84	0.64
1:I:238:A:C5	1:I:239:A:N7	2.65	0.64
4:L:574:U:N1	4:L:575:U:C5	2.66	0.64
4:L:574:U:C2	4:L:575:U:C4	2.84	0.64
4:L:577:U:O4	4:L:578:U:O4	2.15	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
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
5:M:428:U:HO2'	5:M:429:U:C5'	1.83	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
5:M:321:U:O4	5:M:322:U:O4	2.16	0.64
1:I:329:A:C2'	1:I:330:A:H5'	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:451:U:C4	6:N:452:U:C5	2.85	0.64
1:I:128:A:C2'	1:I:129:A:H5'	2.27	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
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
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:458:U:H2'	4:L:459:U:H6	1.63	0.64
2:J:165:A:C4	2:J:166:A:C8	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
5:M:296:U:HO2'	5:M:297:U:H5'	1.60	0.64
2:J:51:A:C4	2:J:52:A:N7	2.66	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
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
1:I:321:A:H2'	1:I:322:A:C5'	2.27	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:81:A:H2'	3:K:82:A:O4'	1.98	0.64
6:N:399:U:C4	6:N:400:U:C4	2.85	0.64
1:I:4:A:N1	1:I:5:A:C6	2.66	0.64
4:L:735:U:H2'	4:L:736:U:H6	1.63	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
2:J:206:A:O2'	2:J:207:A:C4'	2.45	0.64
5:M:342:U:H2'	5:M:343:U:C6	2.32	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:313:U:C2	6:N:314:U:C5	2.85	0.64
3:K:181:A:O2'	3:K:182:A:C5'	2.45	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: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
2:J:221:A:H2'	2:J:222:A:C5'	2.28	0.64
5:M:317:U:C2	5:M:318:U:C5	2.85	0.64
1:I:331:A:N6	1:I:332:A:N6	2.45	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
6:N:418:U:N3	6:N:419:U:O4	2.31	0.64
1:I:21:A:C5	1:I:22:A:N7	2.65	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
3:K:254:A:O2'	3:K:255:A:H5'	1.98	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
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
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
6:N:485:U:H2'	6:N:486:U:C6	2.33	0.64
1:I:352:A:H2'	1:I:353:A:H8	1.61	0.64
3:K:212:A:H2'	3:K:213:A:H8	1.58	0.64
6:N:321:U:H2'	6:N:322:U:H6	1.63	0.64
5:M:290:U:HO2'	5:M:291:U:H5'	1.59	0.64
5:M:405:U:C2	5:M:406:U:C6	2.85	0.64
2:J:224:A:C5	2:J:225:A:N7	2.66	0.64
1:I:335:A:C6	1:I:336:A:C6	2.86	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:749:U:O2	4:L:750:U:C6	2.50	0.64
1:I:196:A:H2'	1:I:197:A:O5'	1.97	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
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
1:I:365:A:H2'	1:I:366:A:H8	1.61	0.64
1:I:202:A:C2	1:I:203:A:N9	2.66	0.64
1:I:403:A:C2'	1:I:404:A:O4'	2.46	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:63:A:C4	2:J:64:A:C8	2.86	0.64
5:M:391:U:HO2'	5:M:392:U:H5'	1.62	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
4:L:516:U:C4	4:L:517:U:C5	2.85	0.64
3:K:162:A:C2	3:K:163:A:C8	2.86	0.64
3:K:90:A:C2	3:K:91:A:C5	2.85	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
1:I:67:A:C2	1:I:68:A:C5	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
3:K:253:A:H2'	3:K:254:A:C4'	2.27	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
4:L:542:U:C2	4:L:543:U:C6	2.85	0.64
1:I:272:A:C2	4:L:554:U:O2	2.50	0.64
4:L:561:U:HO2'	4:L:562:U:H5'	1.59	0.64
6:N:484:U:C3'	6:N:485:U:C5'	2.56	0.64
2:J:264:A:O2'	2:J:265:A:H5'	1.98	0.64
2:J:147:A:H2'	2:J:148:A:C8	2.29	0.64
2:J:29:A:N1	2:J:30:A:C5	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:63:A:C2'	2:J:64:A:C5'	2.75	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
3:K:97:A:C6	3:K:98:A:C5	2.86	0.64
6:N:468:U:C2	6:N:469:U:H5	2.12	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
1:I:91:A:C2	1:I:92:A:C4	2.86	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
3:K:253:A:C3'	3:K:254:A:C5'	2.60	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
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
2:J:202:A:C2	2:J:203:A:C5	2.85	0.64
5:M:354:U:H2'	5:M:355:U:C6	2.33	0.64
1:I:226:A:C4	1:I:227:A:C8	2.86	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
6:N:316:U:C2'	6:N:317:U:C6	2.75	0.64
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:26:A:C4	2:J:27:A:C8	2.86	0.63
5:M:520:U:C2	5:M:521:U:C5	2.86	0.63
5:M:331:U:H2'	5:M:332:U:O5'	1.98	0.63
3:K:103:A:H2'	3:K:104:A:H8	1.62	0.63
6:N:364:U:C2	6:N:365:U:C6	2.85	0.63
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
4:L:778:U:C2'	4:L:779:U:C5'	2.76	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
4:L:565:U:C2	4:L:566:U:C6	2.86	0.63
4:L:460:U:C2	4:L:461:U:C6	2.85	0.63
2:J:229:A:HO2'	2:J:230:A:C4'	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:188:A:C2	2:J:189:A:N7	2.66	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
5:M:543:U:H2'	5:M:544:U:C6	2.32	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
6:N:458:U:H2'	6:N:459:U:C6	2.32	0.63
1:I:14:A:C5	1:I:15:A:N7	2.66	0.63
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
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
3:K:251:A:H61	3:K:252:A:N6	1.95	0.63
4:L:712:U:C2'	4:L:713:U:H6	2.11	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
4:L:594:U:C2	4:L:595:U:C6	2.87	0.63
4:L:617:U:HO2'	4:L:618:U:H5'	1.62	0.63
1:I:202:A:C2'	1:I:203:A:O5'	2.43	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
5:M:298:U:HO2'	5:M:299:U:H5'	1.61	0.63
2:J:145:A:N7	2:J:146:A:N7	2.45	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
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
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
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
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:84:A:O2'	1:I:85:A:P	2.56	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:740:U:H2'	4:L:741:U:H6	1.62	0.63
1:I:100:A:C2'	1:I:101:A:C5'	2.76	0.63
4:L:612:U:C2	4:L:613:U:C6	2.85	0.63
4:L:460:U:H2'	4:L:461:U:O5'	1.99	0.63
2:J:265:A:C4	2:J:266:A:C8	2.85	0.63
4:L:428:U:H2'	4:L:429:U:C6	2.34	0.63
2:J:235:A:C2	2:J:236:A:C8	2.86	0.63
3:K:10:A:C3'	3:K:11:A:P	2.83	0.63
2:J:104:A:N3	2:J:105:A:C8	2.66	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
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
5:M:544:U:HO2'	5:M:545:U:C5'	1.88	0.63
2:J:223:A:N1	2:J:224:A:C5	2.66	0.63
1:I:311:A:C2'	1:I:312:A:C5'	2.76	0.63
4:L:526:U:C2'	4:L:527:U:H5'	2.28	0.63
3:K:110:A:N3	3:K:111:A:C1'	2.62	0.63
3:K:85:A:C2'	3:K:86:A:C5'	2.76	0.63
6:N:453:U:HO2'	6:N:454:U:H5'	1.62	0.63
6:N:461:U:C2	6:N:462:U:C5	2.86	0.63
1:I:38:A:N3	1:I:39:A:C8	2.67	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
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
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
6:N:488:U:H2'	6:N:489:U:C6	2.33	0.63
6:N:501:U:HO2'	6:N:502:U:H5'	1.61	0.63
2:J:257:A:C2'	2:J:258:A:H5'	2.29	0.63
6:N:512:U:C4	6:N:513:U:O4	2.52	0.63
2:J:69:A:C2'	2:J:70:A:O5'	2.46	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
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
1:I:322:A:C6	1:I:323:A:N7	2.66	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
3:K:99:A:N3	3:K:100:A:C8	2.67	0.63
6:N:437:U:O2'	6:N:438:U:H5'	1.99	0.63
1:I:10:A:C2	1:I:11:A:N7	2.66	0.63
4:L:737:U:HO2'	4:L:738:U:H5'	1.59	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
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
4:L:665:U:N3	4:L:666:U:C5	2.66	0.63
1:I:285:A:H2'	1:I:286:A:O4'	1.98	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
6:N:481:U:C2'	6:N:482:U:O5'	2.45	0.63
4:L:465:U:C2	4:L:466:U:C5	2.87	0.63
4:L:422:U:C2'	4:L:423:U:H5'	2.29	0.63
2:J:230:A:O2'	2:J:231:A:C4'	2.45	0.63
6:N:315:U:H2'	6:N:316:U:H6	1.63	0.63
5:M:295:U:C2'	5:M:296:U:H5'	2.29	0.63
2:J:224:A:H2'	2:J:225:A:C5'	2.28	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
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
3:K:117:A:N1	3:K:118:A:C6	2.67	0.63
3:K:132:A:C2	3:K:133:A:C8	2.86	0.63
3:K:131:A:C5	3:K:132:A:N7	2.66	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: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
4:L:760:U:O2'	4:L:761:U:C5'	2.41	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
4:L:648:U:H2'	4:L:649:U:H6	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:598:U:H2'	4:L:599:U:H6	1.64	0.63
3:K:41:A:H2'	3:K:42:A:H8	1.64	0.63
2:J:84:A:C2	2:J:85:A:C4	2.87	0.63
2:J:83:A:C6	2:J:84:A:C5	2.87	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
1:I:340:A:H2'	1:I:341:A:H8	1.64	0.63
4:L:490:U:H2'	4:L:491:U:H6	1.63	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:90:A:C4	3:K:91:A:C8	2.87	0.63
6:N:468:U:C4	6:N:469:U:O4	2.52	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
1:I:128:A:N6	1:I:129:A:H62	1.96	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: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
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
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
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
6:N:333:U:H2'	6:N:334:U:H6	1.62	0.63
1:I:295:A:C2	1:I:296:A:C8	2.86	0.63
6:N:292:U:H2'	6:N:293:U:H6	1.60	0.63
6:N:291:U:H2'	6:N:292:U:H6	1.63	0.63
1:I:401:A:H2'	1:I:402:A:C8	2.34	0.63
2:J:147:A:HO2'	2:J:148:A:H5'	1.64	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:537:U:C2	5:M:538:U:C6	2.87	0.63
2:J:218:A:C2	2:J:219:A:C8	2.86	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
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
6:N:384:U:O2'	6:N:385:U:C5'	2.46	0.63
4:L:791:U:HO2'	4:L:792:U:H5'	1.62	0.63
3:K:253:A:C4	3:K:254:A:C8	2.87	0.63
1:I:197:A:O2'	1:I:198:A:C5'	2.43	0.63
5:M:354:U:O2'	5:M:355:U:P	2.56	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
4:L:459:U:C2	4:L:460:U:C6	2.86	0.63
4:L:434:U:H2'	4:L:435:U:H6	1.64	0.63
4:L:436:U:C2'	4:L:437:U:C5'	2.76	0.63
2:J:259:A:O2'	2:J:260:A:H5'	1.99	0.63
2:J:116:A:N3	2:J:117:A:C8	2.67	0.63
2:J:17:A:O2'	2:J:18:A:C5'	2.40	0.63
2:J:4:A:H2'	2:J:5:A:H8	1.63	0.63
2:J:96:A:C4	2:J:97:A:C8	2.86	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
5:M:323:U:O2	5:M:324:U:C1'	2.47	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: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
4:L:814:U:H2'	4:L:815:U:O5'	1.98	0.63
6:N:277:U:C2	6:N:278:U:C6	2.86	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
4:L:723:U:N3	4:L:724:U:C5	2.63	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
4:L:466:U:C2'	4:L:467:U:O5'	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:207:A:HO2'	3:K:208:A:H5'	1.62	0.63
3:K:215:A:H2'	3:K:216:A:H8	1.63	0.63
6:N:313:U:H2'	6:N:314:U:H6	1.62	0.63
3:K:45:A:C3'	3:K:46:A:P	2.86	0.63
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:50:A:HO2'	2:J:51:A:H5'	1.61	0.62
2:J:97:A:C2	2:J:98:A:C4	2.86	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
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
4:L:504:U:H2'	4:L:505:U:O5'	1.99	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
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
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
4:L:757:U:H2'	4:L:758:U:O4'	1.98	0.62
3:K:250:A:HO2'	3:K:251:A:H5'	1.55	0.62
1:I:154:A:H2'	1:I:155:A:H8	1.64	0.62
1:I:175:A:C2	1:I:176:A:C4	2.86	0.62
4:L:648:U:N3	4:L:649:U:C5	2.66	0.62
2:J:210:A:H2'	2:J:211:A:C5'	2.26	0.62
1:I:241:A:C4	1:I:242:A:N7	2.67	0.62
4:L:561:U:C2'	4:L:562:U:H5'	2.28	0.62
6:N:497:U:O2'	6:N:498:U:C4'	2.46	0.62
1:I:376:A:C6	1:I:377:A:C5	2.86	0.62
4:L:467:U:C2'	4:L:468:U:H5'	2.28	0.62
2:J:248:A:H61	2:J:249:A:N6	1.92	0.62
6:N:310:U:O2'	6:N:311:U:H5'	1.99	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
2:J:66:A:C2'	2:J:67:A:C5'	2.76	0.62
5:M:461:U:HO2'	5:M:462:U:H5'	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:327:U:O2'	5:M:328:U:C5'	2.46	0.62
1:I:329:A:C2'	1:I:330:A:C5'	2.77	0.62
4:L:493:U:C2	4:L:494:U:C5	2.87	0.62
3:K:122:A:N3	3:K:123:A:C8	2.67	0.62
3:K:168:A:H2'	3:K:169:A:O5'	1.99	0.62
3:K:97:A:C5	3:K:98:A:N7	2.66	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: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
4:L:783:U:H2'	4:L:784:U:C6	2.34	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
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
1:I:241:A:H2'	1:I:242:A:C8	2.34	0.62
1:I:357:A:C2'	1:I:358:A:H5'	2.29	0.62
4:L:434:U:H2'	4:L:435:U:C6	2.33	0.62
1:I:403:A:H2'	1:I:404:A:O4'	1.99	0.62
2:J:108:A:C2	2:J:109:A:C4	2.87	0.62
2:J:41:A:H2'	2:J:42:A:H8	1.63	0.62
5:M:361:U:H2'	5:M:362:U:C6	2.34	0.62
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
1:I:333:A:C2	1:I:334:A:C8	2.86	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: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
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
1:I:68:A:C2	1:I:69:A:C4	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:738:U:N3	4:L:739:U:O4	2.32	0.62
1:I:192:A:C2'	1:I:193:A:C5'	2.77	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
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
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
4:L:544:U:C2	4:L:545:U:C5	2.88	0.62
4:L:544:U:C5	4:L:545:U:C5	2.87	0.62
4:L:548:U:C2	4:L:549:U:C5	2.87	0.62
1:I:275:A:C2	4:L:551:U:C2	2.87	0.62
6:N:496:U:O2'	6:N:497:U:C5'	2.43	0.62
3:K:238:A:H2'	3:K:239:A:H8	1.62	0.62
2:J:255:A:O2'	2:J:256:A:H5'	1.99	0.62
2:J:179:A:N3	2:J:180:A:C8	2.67	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
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
5:M:316:U:N3	5:M:317:U:C4	2.67	0.62
4:L:471:U:O2'	4:L:472:U:C5'	2.47	0.62
3:K:111:A:N3	3:K:112:A:C8	2.68	0.62
3:K:89:A:O2'	3:K:90:A:O5'	2.16	0.62
6:N:450:U:O2'	6:N:451:U:C4'	2.47	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:97:A:C4	1:I:98:A:C8	2.88	0.62
1:I:86:A:C2	4:L:740:U:C2	2.88	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:203:A:N1	3:K:204:A:C6	2.67	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
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
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
5:M:310:U:H2'	5:M:311:U:O4'	1.99	0.62
5:M:338:U:HO2'	5:M:339:U:H5'	1.63	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
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
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
3:K:90:A:HO2'	3:K:91:A:C5'	1.97	0.62
3:K:94:A:N6	3:K:95:A:N6	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
4:L:816:U:N3	4:L:817:U:C4	2.67	0.62
6:N:276:U:C2	6:N:277:U:C5	2.88	0.62
4:L:642:U:C2	4:L:643:U:C6	2.88	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
4:L:573:U:C2'	4:L:574:U:H6	2.01	0.62
6:N:489:U:O2'	6:N:490:U:O5'	2.17	0.62
1:I:376:A:C5	1:I:377:A:N7	2.67	0.62
4:L:460:U:H2'	4:L:461:U:H6	1.64	0.62
4:L:428:U:H2'	4:L:429:U:H6	1.64	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
4:L:451:U:HO3'	4:L:452:U:P	2.18	0.62
5:M:303:U:H2'	5:M:304:U:H6	1.64	0.62
2:J:132:A:C2'	2:J:133:A:O4'	2.47	0.62
2:J:26:A:C2	2:J:27:A:C8	2.87	0.62
5:M:462:U:C2'	5:M:463:U:C5'	2.77	0.62
4:L:501:U:C2	4:L:502:U:C6	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:503:U:C2	4:L:504:U:C5	2.88	0.62
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
6:N:447:U:C2	6:N:448:U:C6	2.88	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
4:L:745:U:C2	4:L:746:U:H5	2.11	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
2:J:201:A:N6	2:J:202:A:H62	1.96	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
4:L:605:U:C2	4:L:606:U:C6	2.88	0.62
2:J:264:A:H2'	2:J:265:A:C8	2.34	0.62
4:L:438:U:C4	4:L:439:U:C4	2.82	0.62
6:N:305:U:C2'	6:N:306:U:O4'	2.47	0.62
3:K:235:A:O2'	3:K:236:A:H5'	2.00	0.62
2:J:11:A:C2	2:J:12:A:C4	2.88	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
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
5:M:417:U:H2'	5:M:418:U:C6	2.34	0.62
5:M:328:U:C2	5:M:329:U:H5	2.13	0.62
1:I:347:A:C2'	1:I:348:A:C5'	2.76	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
3:K:142:A:O2'	3:K:143:A:O5'	2.18	0.62
6:N:473:U:N3	6:N:474:U:C5	2.67	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
4:L:771:U:C2'	4:L:772:U:H5'	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:210:A:C2'	3:K:211:A:H5'	2.29	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
3:K:243:A:C3'	3:K:244:A:P	2.86	0.62
3:K:41:A:N3	3:K:42:A:C8	2.68	0.62
5:M:305:U:H2'	5:M:306:U:C6	2.34	0.62
2:J:101:A:H2'	2:J:102:A:C8	2.35	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
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
1:I:311:A:HO2'	1:I:312:A:H5'	1.60	0.62
4:L:509:U:O2'	4:L:510:U:C5'	2.41	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:65:A:C4	3:K:66:A:N7	2.67	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:25:A:C2	1:I:26:A:C8	2.88	0.62
1:I:96:A:H2'	1:I:97:A:C8	2.34	0.62
4:L:771:U:H2'	4:L:772:U:O5'	2.00	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
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
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
1:I:271:A:C4	1:I:272:A:C8	2.86	0.62
4:L:600:U:C2	4:L:601:U:C5	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:100:A:H2'	2:J:101:A:O5'	1.99	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
5:M:336:U:O4	5:M:337:U:O4	2.17	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
4:L:486:U:N3	4:L:487:U:C4	2.67	0.62
3:K:107:A:C2	3:K:108:A:C4	2.88	0.62
3:K:106:A:C5	3:K:107:A:N7	2.67	0.62
3:K:124:A:O2'	3:K:125:A:O5'	2.17	0.62
3:K:173:A:HO2'	3:K:174:A:H5'	1.61	0.62
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
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
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
4:L:547:U:C2'	4:L:548:U:C6	2.78	0.62
4:L:546:U:C2'	4:L:547:U:H5'	2.30	0.62
6:N:495:U:C2	6:N:496:U:C5	2.88	0.62
4:L:425:U:HO2'	4:L:426:U:H5'	1.64	0.62
3:K:218:A:H2'	3:K:219:A:H8	1.63	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
3:K:49:A:H2	3:K:50:A:C4	2.18	0.62
2:J:142:A:C4	2:J:143:A:C8	2.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:M:336:U:C6	5:M:337:U:C5	2.88	0.62
1:I:323:A:N3	1:I:324:A:O4'	2.33	0.62
4:L:510:U:H2'	4:L:511:U:C6	2.33	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
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: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
4:L:689:U:N3	4:L:690:U:C5	2.68	0.62
1:I:248:A:C2	1:I:249:A:N9	2.68	0.62
2:J:159:A:C4	2:J:160:A:C8	2.87	0.62
3:K:212:A:H62	3:K:213:A:N6	1.97	0.62
6:N:316:U:O2'	6:N:317:U:H5'	2.00	0.62
2:J:122:A:H2'	2:J:123:A:C8	2.35	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
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
2:J:221:A:H2'	2:J:222:A:O5'	2.00	0.61
4:L:534:U:H2'	4:L:535:U:H6	1.64	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:91:A:H2'	3:K:92:A:H8	1.63	0.61
6:N:475:U:C2'	6:N:476:U:H5'	2.29	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
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
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:598:U:C2'	4:L:599:U:C5'	2.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:598:U:HO2'	4:L:599:U:H5'	1.65	0.61
3:K:208:A:C3'	3:K:209:A:P	2.87	0.61
6:N:342:U:C2'	6:N:343:U:H5'	2.30	0.61
1:I:390:A:H2'	1:I:391:A:H8	1.64	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
5:M:304:U:N3	5:M:305:U:C4	2.68	0.61
1:I:169:A:O2'	1:I:170:A:H5'	2.00	0.61
2:J:117:A:C2	2:J:118:A:C8	2.84	0.61
2:J:122:A:C5	2:J:123:A:N7	2.69	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
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
2:J:223:A:C5	2:J:224:A:C8	2.87	0.61
5:M:336:U:N1	5:M:337:U:C6	2.67	0.61
1:I:329:A:C6	1:I:330:A:C5	2.88	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
3:K:151:A:O2'	3:K:152:A:C5'	2.45	0.61
3:K:55:A:O2'	3:K:56:A:H5'	1.99	0.61
3:K:54:A:C2'	3:K:55:A:P	2.89	0.61
4:L:777:U:N3	4:L:778:U:C5	2.68	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
5:M:347:U:C2'	5:M:348:U:O4'	2.49	0.61
5:M:346:U:O2	5:M:347:U:C6	2.53	0.61
5:M:351:U:N3	5:M:352:U:C5	2.68	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
4:L:590:U:C2	4:L:591:U:C6	2.88	0.61
4:L:460:U:C2'	4:L:461:U:O5'	2.49	0.61
4:L:429:U:H2'	4:L:430:U:C6	2.35	0.61
2:J:160:A:C2'	2:J:161:A:O5'	2.46	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
3:K:4:A:H2'	3:K:5:A:C8	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:37:A:H2'	3:K:38:A:H8	1.64	0.61
3:K:194:A:H2'	3:K:195:A:H8	1.65	0.61
5:M:296:U:C2	5:M:297:U:C6	2.88	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:44:A:C2	2:J:45:A:C8	2.89	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
5:M:310:U:C2'	5:M:311:U:C5'	2.78	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
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
6:N:465:U:C4	6:N:466:U:O4	2.52	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
4:L:786:U:O2	4:L:787:U:C6	2.53	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
2:J:198:A:C2'	2:J:199:A:C5'	2.78	0.61
5:M:355:U:C2'	5:M:356:U:H5'	2.29	0.61
1:I:206:A:O2'	1:I:207:A:H5'	2.00	0.61
4:L:590:U:N3	4:L:591:U:C5	2.67	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
1:I:400:A:H2'	1:I:401:A:H8	1.65	0.61
3:K:193:A:O2'	3:K:194:A:H5'	2.00	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
5:M:392:U:C3'	5:M:393:U:C5'	2.54	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: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
6:N:425:U:C3'	6:N:426:U:H6	2.12	0.61
1:I:46:A:C4	1:I:47:A:N7	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:627:U:H2'	4:L:628:U:O5'	2.00	0.61
2:J:197:A:O2'	2:J:198:A:H5'	1.99	0.61
1:I:244:A:HO2'	1:I:245:A:H5'	1.64	0.61
1:I:287:A:H2'	1:I:288:A:C4'	2.30	0.61
4:L:557:U:N3	4:L:558:U:C4	2.69	0.61
1:I:358:A:H2	1:I:359:A:C4	2.19	0.61
2:J:236:A:C6	2:J:237:A:N6	2.67	0.61
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:294:U:C2'	6:N:295:U:H5'	2.29	0.61
3:K:181:A:C4	3:K:182:A:N7	2.69	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
2:J:120:A:C2	2:J:121:A:C8	2.89	0.61
2:J:11:A:C2'	2:J:12:A:C4'	2.78	0.61
2:J:184:A:C2	2:J:185:A:N9	2.68	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
1:I:324:A:H2'	1:I:325:A:O5'	2.01	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
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
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:132:A:HO2'	1:I:133:A:C4'	2.13	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
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
1:I:245:A:N1	1:I:246:A:C5	2.68	0.61
4:L:606:U:C2'	4:L:607:U:H5'	2.30	0.61
4:L:460:U:H2'	4:L:461:U:C5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:23:A:C3'	3:K:24:A:P	2.88	0.61
6:N:527:U:H2'	6:N:528:U:H6	1.66	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
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
2:J:226:A:C2	2:J:227:A:N7	2.68	0.61
5:M:331:U:H2'	5:M:332:U:C5'	2.29	0.61
4:L:471:U:O2'	4:L:472:U:P	2.58	0.61
4:L:484:U:C2'	4:L:485:U:O5'	2.49	0.61
3:K:167:A:H2'	3:K:168:A:C5'	2.30	0.61
3:K:80:A:C2	3:K:81:A:C5	2.89	0.61
6:N:457:U:C3'	6:N:458:U:P	2.88	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
4:L:639:U:H2'	4:L:640:U:C5'	2.29	0.61
2:J:202:A:C4	2:J:203:A:C8	2.88	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
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
6:N:492:U:C2'	6:N:493:U:C5'	2.78	0.61
4:L:437:U:H2'	4:L:438:U:H6	1.65	0.61
3:K:5:A:H2'	3:K:6:A:C8	2.36	0.61
3:K:241:A:HO3'	3:K:242:A:P	2.22	0.61
2:J:102:A:C4	2:J:103:A:N7	2.68	0.61
2:J:13:A:C2	2:J:14:A:N7	2.69	0.61
2:J:151:A:O2'	2:J:152:A:H5'	2.01	0.61
2:J:44:A:C4	2:J:45:A:C8	2.88	0.61
5:M:430:U:H2'	5:M:431:U:H6	1.65	0.61
5:M:541:U:HO2'	5:M:542:U:H5'	1.64	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
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:20:A:C2'	1:I:21:A:C5'	2.78	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
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
2:J:204:A:C2'	2:J:205:A:C8	2.77	0.61
5:M:348:U:C4	5:M:349:U:C5	2.87	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
6:N:271:U:C3'	6:N:272:U:P	2.87	0.61
4:L:417:U:H2'	4:L:418:U:H6	1.65	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
6:N:350:U:C4	6:N:351:U:O4	2.54	0.61
2:J:101:A:C6	2:J:102:A:C5	2.89	0.61
2:J:69:A:C4	2:J:70:A:C8	2.89	0.61
2:J:6:A:C2	2:J:7:A:C5	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
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
2:J:222:A:C2	2:J:223:A:C8	2.89	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
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
6:N:410:U:N3	6:N:411:U:C5	2.68	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
4:L:736:U:H2'	4:L:737:U:O5'	2.00	0.61
1:I:102:A:C5	1:I:103:A:C5	2.88	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
1:I:401:A:C6	1:I:402:A:N6	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:9:A:O2'	3:K:10:A:H5'	2.00	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: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
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
1:I:307:A:H2'	1:I:308:A:H8	1.64	0.61
4:L:488:U:H2'	4:L:489:U:C6	2.35	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
3:K:99:A:H2'	3:K:100:A:C4'	2.30	0.61
6:N:417:U:H2'	6:N:418:U:C5'	2.28	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
4:L:762:U:C2'	4:L:763:U:C5'	2.78	0.61
4:L:762:U:H2'	4:L:763:U:O5'	2.01	0.61
4:L:770:U:H2'	4:L:771:U:H6	1.65	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
4:L:700:U:C2	4:L:701:U:C5	2.88	0.61
5:M:346:U:H2'	5:M:347:U:C5'	2.29	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
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
6:N:314:U:H2'	6:N:315:U:C6	2.35	0.61
2:J:260:A:C2'	2:J:261:A:C5'	2.79	0.61
2:J:116:A:H2'	2:J:117:A:H8	1.66	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:90:A:O2'	2:J:91:A:C5'	2.43	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
2:J:215:A:H2'	2:J:216:A:O5'	1.99	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
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
3:K:87:A:N1	3:K:88:A:C5	2.69	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:59:A:C2	1:I:60:A:C5	2.89	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
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
4:L:650:U:C2'	4:L:651:U:C5'	2.79	0.61
2:J:204:A:C2	2:J:205:A:C5	2.88	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
4:L:541:U:O2'	4:L:542:U:C5'	2.44	0.61
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: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
3:K:31:A:C5	3:K:32:A:N7	2.69	0.61
2:J:99:A:C4	2:J:100:A:N7	2.69	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
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
5:M:324:U:C2'	5:M:325:U:H6	2.13	0.60
1:I:309:A:O2'	1:I:310:A:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:320:A:HO2'	1:I:321:A:H5'	1.66	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
6:N:365:U:O2'	6:N:366:U:P	2.55	0.60
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
1:I:67:A:C2'	1:I:68:A:H8	2.14	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
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
4:L:559:U:H2'	4:L:560:U:H6	1.65	0.60
6:N:481:U:H2'	6:N:482:U:O5'	2.01	0.60
1:I:365:A:O2'	1:I:366:A:H5'	2.01	0.60
2:J:165:A:C6	2:J:166:A:C6	2.89	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
1:I:385:A:C3'	1:I:386:A:P	2.87	0.60
3:K:40:A:N6	3:K:41:A:H62	1.98	0.60
2:J:252:A:C2'	2:J:253:A:C5'	2.79	0.60
6:N:527:U:H2'	6:N:528:U:C6	2.35	0.60
2:J:69:A:H2'	2:J:70:A:O5'	1.99	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
5:M:327:U:H2'	5:M:328:U:O5'	2.01	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
4:L:531:U:H2'	4:L:532:U:C5'	2.30	0.60
3:K:56:A:H2'	3:K:57:A:H8	1.66	0.60
6:N:415:U:C2	6:N:416:U:C5	2.89	0.60
1:I:11:A:C4	1:I:12:A:N7	2.69	0.60
1:I:49:A:HO2'	1:I:50:A:H5'	1.60	0.60
4:L:746:U:H2'	4:L:747:U:C6	2.36	0.60
1:I:157:A:C2'	1:I:158:A:H5'	2.30	0.60
4:L:700:U:N3	4:L:701:U:C5	2.69	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
3:K:205:A:H2'	3:K:206:A:C8	2.36	0.60
2:J:12:A:C6	2:J:13:A:N7	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:318:U:C2'	5:M:319:U:O5'	2.47	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: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:8:A:C5	1:I:9:A:N7	2.70	0.60
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
1:I:18:A:C2	4:L:808:U:C2	2.89	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
4:L:689:U:C2	4:L:690:U:C6	2.90	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:375:A:H2'	1:I:376:A:H8	1.66	0.60
1:I:31:A:N3	1:I:32:A:C8	2.69	0.60
1:I:296:A:C4	1:I:297:A:C8	2.89	0.60
3:K:28:A:O2'	3:K:29:A:H5'	2.02	0.60
5:M:289:U:H2'	5:M:290:U:H6	1.65	0.60
2:J:129:A:O2'	2:J:130:A:C5'	2.32	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:473:U:C2'	6:N:474:U:C6	2.81	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
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
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
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
1:I:372:A:HO2'	1:I:373:A:H5'	1.62	0.60
4:L:415:U:H2'	4:L:416:U:C6	2.37	0.60
3:K:181:A:C4	3:K:182:A:C8	2.89	0.60
2:J:45:A:N1	2:J:46:A:C5	2.70	0.60
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:94:A:C2	2:J:95:A:C5	2.89	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
5:M:318:U:H2'	5:M:319:U:O5'	2.02	0.60
4:L:487:U:C2'	4:L:488:U:C4'	2.79	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:73:A:O2'	3:K:74:A:H5'	2.01	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
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
4:L:823:U:C2	4:L:824:U:C5	2.90	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
4:L:643:U:C4	4:L:644:U:O4	2.55	0.60
2:J:198:A:C6	2:J:199:A:C5	2.90	0.60
1:I:281:A:C4	1:I:282:A:N7	2.69	0.60
4:L:554:U:H2'	4:L:555:U:C5	2.36	0.60
3:K:212:A:C2'	3:K:213:A:H8	2.14	0.60
1:I:300:A:C2	1:I:301:A:C5	2.89	0.60
6:N:513:U:H2'	6:N:514:U:H6	1.66	0.60
2:J:144:A:N3	2:J:145:A:N9	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:62:A:H2'	2:J:63:A:O5'	2.01	0.60
2:J:8:A:C2'	2:J:9:A:O5'	2.49	0.60
2:J:97:A:N1	2:J:98:A:C5	2.69	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
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
1:I:308:A:H2'	1:I:309:A:C8	2.36	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
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
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:62:A:C2	1:I:63:A:C5	2.89	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
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
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
2:J:206:A:HO2'	2:J:207:A:C5'	1.92	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
4:L:580:U:O2	4:L:581:U:C6	2.55	0.60
4:L:459:U:O2'	4:L:460:U:C5'	2.38	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:29:A:C2'	2:J:30:A:O4'	2.47	0.60
2:J:44:A:HO2'	2:J:45:A:H5'	1.66	0.60
2:J:5:A:C6	2:J:6:A:N6	2.69	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
5:M:517:U:N3	5:M:518:U:C5	2.69	0.60
2:J:221:A:C2	2:J:222:A:C4	2.90	0.60
3:K:108:A:N6	3:K:109:A:N6	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:65:A:O5'	3:K:66:A:OP2	2.18	0.60
6:N:469:U:O4	6:N:470:U:O4	2.19	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
4:L:793:U:N3	4:L:794:U:C4	2.70	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
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
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:31:A:O2'	1:I:32:A:P	2.59	0.60
6:N:336:U:H2'	6:N:337:U:C6	2.37	0.60
2:J:253:A:H2'	2:J:254:A:C8	2.36	0.60
1:I:381:A:O2'	1:I:382:A:H5'	2.00	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:44:A:N3	2:J:45:A:C8	2.70	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
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
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: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
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
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
2:J:205:A:C2	2:J:206:A:C8	2.90	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
4:L:566:U:O2	4:L:567:U:C6	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:376:A:H2'	1:I:377:A:H8	1.66	0.60
3:K:200:A:H2'	3:K:201:A:H8	1.67	0.60
6:N:293:U:C2'	6:N:294:U:H6	2.07	0.60
1:I:403:A:C2'	1:I:404:A:H5'	2.32	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: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
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
5:M:321:U:N3	5:M:322:U:C4	2.69	0.60
4:L:530:U:N3	4:L:531:U:C5	2.70	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
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
4:L:812:U:N3	4:L:813:U:C5	2.69	0.60
6:N:278:U:C2'	6:N:279:U:C5'	2.80	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:166:A:HO2'	1:I:167:A:H5'	1.66	0.60
4:L:630:U:N3	4:L:631:U:C5	2.69	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:247:A:C2	2:J:248:A:C5	2.90	0.60
4:L:422:U:C2'	4:L:423:U:O4'	2.49	0.60
2:J:153:A:C2	2:J:154:A:C8	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:79:A:H2'	3:K:80:A:H8	1.66	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: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
4:L:662:U:N3	4:L:663:U:C4	2.69	0.60
2:J:204:A:C2'	2:J:205:A:O4'	2.49	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
4:L:567:U:H2'	4:L:568:U:C5'	2.28	0.60
2:J:183:A:N3	2:J:184:A:O4'	2.35	0.59
2:J:39:A:C4	2:J:40:A:C8	2.90	0.59
2:J:93:A:H2'	2:J:94:A:H8	1.67	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
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
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
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
6:N:424:U:N3	6:N:425:U:C5	2.70	0.59
4:L:756:U:C2	4:L:757:U:C6	2.90	0.59
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
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
2:J:198:A:C2	2:J:199:A:C4	2.90	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
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
4:L:563:U:N3	4:L:564:U:C5	2.70	0.59
2:J:262:A:H2'	2:J:263:A:H8	1.66	0.59
2:J:160:A:H2'	2:J:161:A:H8	1.65	0.59
6:N:342:U:H2'	6:N:343:U:H6	1.66	0.59
5:M:297:U:C2'	5:M:298:U:C5'	2.80	0.59
2:J:121:A:O2'	2:J:122:A:C5'	2.44	0.59
2:J:124:A:O2'	2:J:125:A:P	2.61	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
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
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
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:81:A:C2'	3:K:82:A:O5'	2.50	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: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:8:A:C6	1:I:9:A:N6	2.70	0.59
4:L:739:U:H2'	4:L:740:U:H6	1.68	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:151:A:HO2'	1:I:152:A:H5'	1.63	0.59
1:I:189:A:O2'	1:I:190:A:C5'	2.41	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
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
4:L:589:U:H2'	4:L:590:U:H6	1.67	0.59
6:N:317:U:H2'	6:N:318:U:O4'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:193:A:H2'	3:K:194:A:H8	1.65	0.59
5:M:298:U:C2	5:M:299:U:C5	2.89	0.59
2:J:88:A:N1	2:J:89:A:C5	2.70	0.59
5:M:410:U:C6	5:M:411:U:H5	2.19	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
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
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
1:I:12:A:C2	1:I:13:A: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
1:I:175:A:H2	1:I:176:A:C5	2.14	0.59
4:L:547:U:C6	4:L:548:U:C5	2.90	0.59
6:N:486:U:C2'	6:N:487:U:C6	2.77	0.59
2:J:248:A:C4	2:J:249:A:C8	2.91	0.59
1:I:30:A:HO2'	1:I:31:A:H5'	1.63	0.59
4:L:436:U:C2'	4:L:437:U:H5'	2.32	0.59
3:K:204:A:C5	3:K:205:A:N7	2.70	0.59
2:J:254:A:C2	2:J:255:A:C4	2.91	0.59
3:K:195:A:N6	3:K:196:A:H62	1.97	0.59
5:M:306:U:HO2'	5:M:307:U:H5'	1.66	0.59
3:K:188:A:O2'	3:K:189:A:C5'	2.49	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:47:A:HO2'	2:J:48:A:C5'	1.85	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
2:J:216:A:C6	2:J:217:A:N6	2.69	0.59
5:M:322:U:H2'	5:M:323:U:C6	2.37	0.59
1:I:337:A:H2'	1:I:338:A:C5'	2.31	0.59
4:L:511:U:C2	4:L:512:U:C5	2.89	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:514:U:H2'	4:L:515:U:C6	2.37	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
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
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
4:L:747:U:C2'	4:L:748:U:H5'	2.33	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
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
5:M:352:U:O2	5:M:353:U:C6	2.55	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
4:L:621:U:H2'	4:L:622:U:H6	1.66	0.59
6:N:481:U:C2	6:N:482:U:C6	2.90	0.59
1:I:364:A:C2	1:I:365:A:C8	2.90	0.59
3:K:47:A:O5'	3:K:48:A:OP2	2.20	0.59
6:N:526:U:O2'	6:N:527:U:C5'	2.48	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: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
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
5:M:320:U:N3	5:M:321:U:C5	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:483:U:C2	4:L:484:U:C6	2.91	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
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:9:A:H2'	1:I:10:A:O5'	2.03	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
4:L:702:U:H2'	4:L:703:U:C6	2.32	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
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
2:J:229:A:C2'	2:J:230:A:O5'	2.51	0.59
6:N:320:U:C2'	6:N:321:U:O4'	2.50	0.59
2:J:11:A:C2'	2:J:12:A:O5'	2.49	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: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
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
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
6:N:402:U:N3	6:N:403:U:C5	2.71	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
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
2:J:204:A:N1	2:J:205:A:C5	2.71	0.59
1:I:267:A:H2'	1:I:268:A:C8	2.37	0.59
4:L:569:U:O2'	4:L:570:U:C5'	2.39	0.59
1:I:362:A:C5	1:I:363:A:N7	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:309:U:H2'	6:N:310:U:C6	2.37	0.59
1:I:390:A:H2'	1:I:391:A:C8	2.37	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
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
2:J:220:A:C5	2:J:221:A:N7	2.71	0.59
5:M:326:U:N3	5:M:327:U:C5	2.71	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
4:L:531:U:C2'	4:L:532:U:C5'	2.81	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
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
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
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
1:I:133:A:HO2'	1:I:134:A:C5'	1.89	0.59
4:L:712:U:C2	4:L:713:U:C5	2.88	0.59
2:J:207:A:C5	2:J:208:A:N7	2.71	0.59
5:M:345:U:N3	5:M:346:U:C5	2.71	0.59
4:L:557:U:N3	4:L:558:U:C6	2.70	0.59
4:L:561:U:N3	4:L:562:U:C5	2.70	0.59
6:N:481:U:H2'	6:N:482:U:C5'	2.31	0.59
2:J:248:A:H62	2:J:249:A:H62	1.47	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:84:A:C5	2:J:85:A:C8	2.91	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
2:J:216:A:HO2'	2:J:217:A:P	2.23	0.59
5:M:322:U:HO2'	5:M:323:U:C4'	2.16	0.59
1:I:316:A:H61	1:I:317:A:N6	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:N:406:U:H2'	6:N:407:U:C5'	2.32	0.59
6:N:416:U:H2'	6:N:417:U:H6	1.68	0.59
1:I:22:A:H2'	1:I:23:A:H8	1.66	0.59
1:I:4:A:C2'	1:I:5:A:H8	2.11	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
4:L:794:U:H2'	4:L:795:U:C5'	2.32	0.59
6:N:281:U:C2'	6:N:282:U:O5'	2.51	0.59
1:I:129:A:N1	1:I:130:A:C5	2.71	0.59
4:L:648:U:C4	4:L:649:U:O4	2.56	0.59
2:J:203:A:C4	2:J:204:A:C8	2.91	0.59
5:M:352:U:HO2'	5:M:353:U:H5'	1.67	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
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
1:I:353:A:H2'	1:I:354:A:O5'	2.01	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
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
5:M:366:U:N3	5:M:367:U:C5	2.71	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
4:L:498:U:H2'	4:L:499:U:H6	1.68	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:85:A:H2'	3:K:86:A:C5'	2.33	0.59
6:N:463:U:C2'	6:N:464:U:H5'	2.33	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
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
1:I:102:A:C6	1:I:103:A:N6	2.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:681:U:C4	4:L:682:U:C4	2.90	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
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
1:I:353:A:H2'	1:I:354:A:C4'	2.32	0.59
4:L:435:U:O2'	4:L:436:U:C5'	2.50	0.59
2:J:166:A:C2	2:J:167:A:C8	2.91	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
2:J:133:A:C2	2:J:134:A:C4	2.91	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
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
1:I:317:A:N3	1:I:318:A:C8	2.71	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
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
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: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
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
1:I:165:A:N6	1:I:166:A:H62	2.00	0.59
4:L:691:U:H2'	4:L:692:U:C6	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:692:U:HO2'	4:L:693:U:H5'	1.57	0.59
1:I:221:A:O2'	1:I:222:A:C5'	2.45	0.59
1:I:240:A:C2	1:I:241:A:N9	2.70	0.59
1:I:239:A:C4	1:I:240:A:C8	2.91	0.59
5:M:286:U:N3	5:M:287:U:C5	2.70	0.59
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:63:A:C2	2:J:64:A:C5	2.90	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
1:I:323:A:N3	1:I:324:A:N9	2.50	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
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: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
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:780:U:HO2'	4:L:781:U:H5'	1.58	0.58
4:L:821:U:C2'	4:L:822:U:C5'	2.80	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
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
2:J:210:A:C2'	2:J:211:A:O4'	2.47	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
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:413:U:H2'	4:L:414:U:H6	1.68	0.58
1:I:403:A:O2'	1:I:404:A:C4'	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:224:A:H2'	3:K:225:A:C8	2.37	0.58
2:J:118:A:H2'	2:J:119:A:H8	1.69	0.58
2:J:61:A:O2'	2:J:62:A:H5'	2.03	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
2:J:226:A:C2	5:M:328:U:C2	2.91	0.58
2:J:224:A:C6	5:M:330:U:O4	2.56	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
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
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
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
4:L:618:U:C2	4:L:619:U:C6	2.91	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
3:K:46:A:HO2'	3:K:47:A:C4'	2.13	0.58
3:K:188:A:H2'	3:K:189:A:H8	1.68	0.58
2:J:126:A:C5	2:J:127:A:N7	2.71	0.58
2:J:171:A:C2	2:J:172:A:N7	2.58	0.58
5:M:399:U:H2'	5:M:400:U:O5'	2.03	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
5:M:318:U:C3'	5:M:319:U:C5'	2.70	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
4:L:526:U:H2'	4:L:527:U:H6	1.67	0.58
3:K:101:A:C2'	3:K:102:A:C5'	2.81	0.58
3:K:90:A:H2'	3:K:91:A:C5'	2.31	0.58
6:N:422:U:H2'	6:N:423:U:C6	2.36	0.58
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:249:A:H2'	3:K:250:A:O5'	2.02	0.58
6:N:281:U:C2	6:N:282:U:C6	2.91	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
4:L:639:U:HO2'	4:L:640:U:H5'	1.67	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: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
2:J:155:A:H2'	2:J:156:A:C8	2.37	0.58
6:N:518:U:HO3'	6:N:519:U:P	2.20	0.58
2:J:120:A:C2	2:J:121:A:C4	2.90	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
5:M:324:U:C4	5:M:325:U:C4	2.91	0.58
2:J:225:A:N1	5:M:329:U:C4	2.72	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
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
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
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: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
4:L:792:U:C2	4:L:793:U:C5	2.91	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
1:I:155:A:C2	1:I:156:A:C5	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:638:U:O2'	4:L:639:U:C4'	2.49	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
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
1:I:401:A:H2'	1:I:402:A:H8	1.68	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
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
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
1:I:324:A:C2	1:I:325:A:C4	2.92	0.58
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
6:N:469:U:N3	6:N:470:U:C5	2.71	0.58
1:I:63:A:H61	1:I:64:A:N6	2.00	0.58
4:L:761:U:H2'	4:L:762:U:C6	2.39	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
4:L:712:U:C4	4:L:713:U:C4	2.92	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
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
2:J:160:A:H2'	2:J:161:A:C4'	2.30	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
1:I:295:A:N3	1:I:296:A:C8	2.72	0.58
1:I:388:A:C2'	1:I:389:A:C5'	2.82	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)
5:M:295:U:H2'	5:M:296:U:O4'	2.04	0.58
2:J:12:A:C4	2:J:13:A:C8	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
5:M:315:U:HO2'	5:M:316:U:H5'	1.68	0.58
1:I:322:A:H2'	1:I:323:A:O4'	2.02	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
6:N:448:U:N3	6:N:449: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
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
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: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
6:N:485:U:H2'	6:N:486:U:H6	1.67	0.58
2:J:241:A:H3'	2:J:242:A:P	2.44	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:92:A:C2	2:J:93:A:C4	2.87	0.58
5:M:377:U:N3	5:M:378:U:C5	2.72	0.58
5:M:458:U:HO2'	5:M:459:U:C5'	1.89	0.58
2:J:89:A:C2	5:M:465:U:C2	2.90	0.58
2:J:47:A:N6	5:M:507:U:O4	2.36	0.58
5:M:533:U:H2'	5:M:534:U:H6	1.67	0.58
1:I:340:A:N3	1:I:341:A:N7	2.51	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:441:U:H2'	6:N:442:U:O5'	2.04	0.58
1:I:53:A:H2'	1:I:54:A:O5'	2.04	0.58
1:I:53:A:C2	1:I:54:A:N7	2.71	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
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
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
4:L:617:U:H2'	4:L:618:U:H6	1.67	0.58
2:J:161:A:N3	2:J:162:A:C8	2.71	0.58
2:J:13:A:C4	2:J:14:A:C8	2.92	0.58
2:J:171:A:HO2'	2:J:172:A:C5'	2.17	0.58
2:J:27:A:C4	2:J:28:A:C8	2.92	0.58
2:J:5:A:C2	2:J:6:A:C5	2.92	0.58
2:J:67:A:N3	2:J:68:A:C8	2.71	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
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
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
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:80:A:C2	3:K:81:A: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
4:L:810:U:HO2'	4:L:811:U:C4'	2.17	0.58
3:K:253:A:N6	6:N:279:U:O4	2.37	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:206:A:C2	2:J:207:A:C8	2.91	0.58
5:M:345:U:H2'	5:M:346:U:C6	2.37	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
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
1:I:359:A:C5	1:I:360:A:N7	2.71	0.58
6:N:338:U:C4	6:N:339:U:C4	2.91	0.58
2:J:153:A:C2	2:J:154:A:N9	2.72	0.58
2:J:67:A:H2'	2:J:68:A:C5'	2.33	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
5:M:320:U:C2	5:M:321:U:C5	2.91	0.58
1:I:303:A:H2'	1:I:304:A:O5'	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
3:K:102:A:O2'	3:K:103:A:H5'	2.04	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
3:K:94:A:C4	3:K:95:A:C8	2.91	0.58
3:K:93:A:C2'	3:K:94:A:H5'	2.33	0.58
3:K:99:A:C2'	3:K:100:A:O4'	2.52	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
4:L:646:U:C2'	4:L:647:U:C5'	2.81	0.58
2:J:202:A:N1	2:J:203:A:C5	2.72	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
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:613:U:HO2'	4:L:614:U:H5'	1.64	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
1:I:31:A:C6	1:I:32:A:N6	2.71	0.58
2:J:158:A:N6	2:J:159:A:N6	2.51	0.58
6:N:338:U:C2	6:N:339:U:C4	2.92	0.58
5:M:287:U:O2	5:M:288:U:C6	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1:A:N6	1:I:2:A:N6	2.51	0.58
2:J:182:A:H62	2:J:183:A:H62	1.48	0.58
2:J:71:A:C6	2:J:72:A:C5	2.91	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
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
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
4:L:531:U:C2	4:L:532:U:C6	2.92	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
6:N:391:U:C2	6:N:392:U:C5	2.92	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:59:A:HO2'	1:I:60:A:H5'	1.67	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
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
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
2:J:211:A:H2'	2:J:212:A:O5'	2.04	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
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
4:L:464:U:H2'	4:L:465:U:H6	1.68	0.58
2:J:230:A:C2'	2:J:231:A:O4'	2.51	0.58
3:K:191:A:C2'	3:K:192:A:H5'	2.33	0.58
2:J:138:A:C6	2:J:139:A:N6	2.72	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:345:A:C2	1:I:346:A:C8	2.92	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:79:A:H2'	3:K:80:A:C8	2.39	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
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
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
3:K:258:A:N6	3:K:259:A:N6	2.52	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:584:U:C2'	4:L:585:U:C5'	2.82	0.57
1:I:364:A:C2	1:I:365:A:C5	2.92	0.57
4:L:436:U:C2'	4:L:437:U:H6	2.04	0.57
3:K:43:A:C6	3:K:44:A:C6	2.92	0.57
6:N:527:U:C2	6:N:528:U:C5	2.92	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
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
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
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
4:L:487:U:H2'	4:L:488:U:C4'	2.34	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:78:A:C2'	3:K:79:A:C5'	2.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:76:A:C4	1:I:77:A:C8	2.92	0.57
4:L:794:U:C2	4:L:795:U:C6	2.93	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
4:L:691:U:O2	4:L:692:U:C6	2.57	0.57
5:M:348:U:C2	5:M:349:U:C4	2.79	0.57
1:I:255:A:C2'	1:I:256:A:O5'	2.52	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
6:N:489:U:C2	6:N:490:U:C6	2.90	0.57
6:N:335:U:H2'	6:N:336:U:C6	2.38	0.57
3:K:242:A:C3'	3:K:243:A:P	2.90	0.57
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: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
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
2:J:221:A:C2'	2:J:222:A:O5'	2.52	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
4:L:501:U:O2'	4:L:502:U:O5'	2.22	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:139:A:C2	3:K:140:A:C8	2.92	0.57
3:K:82:A:H2'	3:K:83:A:H8	1.68	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: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
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
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
4:L:649:U:C4	4:L:650:U:C4	2.92	0.57
1:I:226:A:C2	1:I:227:A:N7	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:463:U:H2'	4:L:464:U:C6	2.38	0.57
3:K:42:A:H2'	3:K:43:A:O4'	2.04	0.57
5:M:306:U:H2'	5:M:307:U:H6	1.69	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
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
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
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
3:K:106:A:O2'	3:K:107:A:H5'	2.04	0.57
3:K:58:A:H2'	3:K:59:A:H8	1.68	0.57
6:N:450:U:C2'	6:N:451:U:H6	2.15	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
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
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
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
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
4:L:546:U:C2'	4:L:547:U:H6	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:17:A:C2'	2:J:18:A:C5'	2.83	0.57
2:J:192:A:C2'	2:J:193:A:O5'	2.49	0.57
2:J:66:A:C2	2:J:67:A:C4	2.92	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
2:J:223:A:C2	2:J:224:A:N9	2.72	0.57
1:I:310:A:H2'	1:I:311:A:C5'	2.34	0.57
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:80:A:C2'	3:K:81:A:H5'	2.34	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:71:A:H2'	1:I:72:A:C5'	2.35	0.57
4:L:793:U:H2'	4:L:794:U:H6	1.69	0.57
3:K:250:A:N3	3:K:251:A:C8	2.73	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
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
1:I:352:A:C2	1:I:353:A:C4	2.93	0.57
6:N:339:U:C2'	6:N:340:U:C5'	2.83	0.57
4:L:450:U:C2'	4:L:451:U:H5'	2.35	0.57
2:J:132:A:C2	2:J:133:A:C4	2.92	0.57
2:J:56:A:C2	2:J:57:A:C1'	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:69:A:C2	2:J:70:A:N9	2.72	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
5:M:315:U:C2	5:M:316:U:C6	2.92	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
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
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
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: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
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
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
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:419:U:N3	4:L:420:U:O4	2.37	0.57
4:L:419:U:C4	4:L:420:U:O4	2.57	0.57
3:K:3:A:H2'	3:K:4:A:H8	1.69	0.57
5:M:292:U:H2'	5:M:293:U:H6	1.70	0.57
2:J:32:A:N3	2:J:33:A:C8	2.72	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:98:A:O2'	3:K:99:A:H5'	2.04	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
4:L:672:U:C4	4:L:673:U:C4	2.93	0.57
1:I:273:A:O2'	1:I:274:A:C5'	2.37	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
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
2:J:265:A:H2'	2:J:266:A:O5'	2.04	0.57
1:I:32:A:H2'	1:I:33:A:H8	1.69	0.57
4:L:415:U:H2'	4:L:416:U:H6	1.70	0.57
3:K:4:A:O2'	3:K:5:A:H5'	2.03	0.57
6:N:512:U:H2'	6:N:513:U:C6	2.40	0.57
2:J:183:A:N3	2:J:184:A:C1'	2.68	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
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
5:M:322:U:C2'	5:M:323:U:O5'	2.51	0.57
1:I:338:A:C4	1:I:339:A:N7	2.73	0.57
6:N:377:U:O2	6:N:378:U:C1'	2.53	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
4:L:739:U:C2	4:L:740:U:C5	2.93	0.57
4:L:802:U:HO2'	4:L:803:U:H5'	1.68	0.57
3:K:260:A:C3'	3:K:261:A:P	2.90	0.57
1:I:101:A:C2'	1:I:102:A:C8	2.81	0.57
4:L:627:U:C2'	4:L:628:U:H5'	2.34	0.57
4:L:669:U:HO2'	4:L:670:U:H5'	1.66	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
1:I:264:A:N3	1:I:265:A:C8	2.73	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
2:J:249:A:H2'	2:J:250:A:O5'	2.04	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
6:N:296:U:N3	6:N:297:U:C4	2.72	0.57
3:K:184:A:C3'	3:K:185:A:P	2.90	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:14:A:N6	2:J:15:A:H62	2.03	0.57
2:J:187:A:HO2'	2:J:188:A:H5'	1.69	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
5:M:331:U:C2	5:M:332:U:C6	2.92	0.57
4:L:517:U:N3	4:L:518:U:C5	2.73	0.57
3:K:106:A:C2	3:K:107:A:C5	2.92	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: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
4:L:781:U:O2	4:L:782:U:C6	2.58	0.57
1:I:257:A:C4	1:I:258:A:C8	2.93	0.57
2:J:247:A:C2	2:J:248:A:C4	2.92	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
1:I:169:A:C2	1:I:170:A:C8	2.93	0.57
2:J:116:A:H2'	2:J:117:A:C8	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
2:J:222:A:H2'	2:J:223:A:C4'	2.33	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
3:K:81:A:H2'	3:K:82:A:C5'	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:14:A:C6	1:I:15:A:C5	2.92	0.57
1:I:21:A:C2	1:I:22:A:C5	2.93	0.57
4:L:800:U:H2'	4:L:801:U:C6	2.40	0.57
6:N:276:U:H2'	6:N:277:U:H6	1.70	0.57
1:I:133:A:N3	1:I:134:A:C1'	2.68	0.57
1:I:189:A:H2'	1:I:190:A:O4'	2.05	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
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
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
6:N:317:U:O2'	6:N:318:U:H5'	2.04	0.57
6:N:302:U:H2'	6:N:303:U:O4'	2.05	0.57
2:J:107:A:C2'	2:J:108:A:O5'	2.51	0.56
2:J:12:A:C5	2:J:13:A:N7	2.72	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: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
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
5:M:322:U:C2	5:M:323:U:C6	2.93	0.56
2:J:215:A:C2	5:M:339:U:C2	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
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
3:K:88:A:C4	3:K:89:A:C8	2.92	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:46:A:C2	1:I:47:A:C4	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:187:A:C2	1:I:188:A:C5	2.93	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
1:I:265:A:C6	1:I:266:A:N7	2.72	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: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:421:U:HO2'	4:L:422:U:C4'	2.18	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
2:J:166:A:C2	2:J:167:A:N9	2.73	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
1:I:299:A:C2	1:I:300:A:C4	2.93	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
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
6:N:349:U:O2'	6:N:350:U:P	2.63	0.56
2:J:103:A:C2	2:J:104:A:N9	2.72	0.56
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
5:M:501:U:C2	5:M:502:U:C6	2.92	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
6:N:396:U:C4	6:N:397:U:C5	2.94	0.56
1:I:88:A:C2'	1:I:89:A:O5'	2.52	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
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
1:I:219:A:C2	1:I:220:A:C5	2.94	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:420:U:N3	4:L:421:U:C4	2.74	0.56
2:J:159:A:H2'	2:J:160:A:O4'	2.05	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:294:U:HO2'	6:N:295:U:H5'	1.67	0.56
2:J:253:A:C2	2:J:254:A:C5	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:39:A:H2'	2:J:40:A:H8	1.71	0.56
2:J:83:A:N6	2:J:84:A:N6	2.53	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:433:U:H2'	5:M:434:U:H6	1.69	0.56
5:M:512:U:C4	5:M:513:U:C5	2.93	0.56
2:J:104:A:C2	2:J:105:A:C4	2.93	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:35:A:O2'	2:J:36:A:H5'	2.05	0.56
2:J:73:A:H2'	2:J:74:A:H8	1.71	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:456:U:H2'	5:M:457:U:C6	2.39	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
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
3:K:107:A:H2'	3:K:108:A:O5'	2.04	0.56
3:K:70:A:H2'	3:K:71:A:C8	2.40	0.56
6:N:403:U:C2'	6:N:404:U:C5'	2.83	0.56
6:N:473:U:C5	6:N:474:U:C5	2.93	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: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
6:N:417:U:H2'	6:N:418:U:C4'	2.35	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:8:A:H61	1:I:9:A:N6	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:15:A:C5	1:I:16:A:N7	2.73	0.56
1:I:9:A:O2'	1:I:10:A:C5'	2.39	0.56
4:L:735:U:O2'	4:L:736:U:H5'	2.04	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
4:L:701:U:H2'	4:L:702:U:C6	2.39	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
4:L:669:U:C2'	4:L:670:U:C5'	2.84	0.56
1:I:212:A:C2	1:I:213:A:C8	2.93	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:280:A:H2'	1:I:281:A:C8	2.40	0.56
4:L:544:U:H2'	4:L:545:U:H6	1.69	0.56
4:L:612:U:H2'	4:L:613:U:C5'	2.36	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: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:285:A:C4	1:I:286:A:C8	2.93	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
6:N:499:U:N3	6:N:500:U:O4	2.37	0.56
6:N:482:U:H2'	6:N:483:U:H6	1.69	0.56
1:I:352:A:C4	1:I:353:A:C8	2.94	0.56
2:J:229:A:C2	2:J:230:A:C5	2.93	0.56
6:N:327:U:C2'	6:N:328:U:C4'	2.83	0.56
6:N:318:U:H2'	6:N:319:U:H6	1.68	0.56
6:N:292:U:C2	6:N:293:U:C5	2.93	0.56
3:K:5:A:C2'	3:K:6:A:C5'	2.82	0.56
1:I:292:A:C2'	1:I:293:A:H5'	2.36	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
3:K:43:A:H2'	3:K:44:A:H8	1.69	0.56
5:M:304:U:H2'	5:M:305:U:C6	2.39	0.56
5:M:291:U:C2'	5:M:292:U:H5'	2.35	0.56
5:M:305:U:C2	5:M:306:U:C6	2.94	0.56
2:J:146:A:C2	2:J:147:A:C5	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:182:A:C5	2:J:183:A:C5	2.89	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:6:A:C2	2:J:7:A:C8	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
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
4:L:484:U:H2'	4:L:485:U:O5'	2.04	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
3:K:163:A:C5	3:K:164:A:N7	2.74	0.56
3:K:75:A:HO3'	3:K:76:A:P	2.27	0.56
3:K:77:A:HO2'	3:K:78:A:H5'	1.68	0.56
1:I:73:A:N1	1:I:74:A:C5	2.73	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
3:K:253:A:C2	3:K:254:A:C8	2.94	0.56
1:I:172:A:C2	1:I:173:A:N9	2.73	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
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
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
4:L:549:U:O2'	4:L:550:U:O4'	2.23	0.56
6:N:487:U:N3	6:N:488:U:O4	2.39	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
2:J:166:A:C4	2:J:167:A:N7	2.74	0.56
1:I:388:A:C2'	1:I:389:A:H5'	2.36	0.56
3:K:15:A:O2'	3:K:16:A:H5'	2.05	0.56
2:J:257:A:H2'	2:J:258:A:O4'	2.06	0.56
2:J:108:A:C6	2:J:109:A:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:183:A:N3	2:J:184:A:C8	2.73	0.56
2:J:34:A:C2	2:J:35:A:N7	2.73	0.56
2:J:95:A:H2'	2:J:96:A:H8	1.70	0.56
2:J:95:A:N3	2:J:96:A:C8	2.73	0.56
5:M:408:U:O2	5:M:409:U:C6	2.59	0.56
1:I:333:A:H2	1:I:334:A:C4	2.18	0.56
3:K:121:A:N1	6:N:411:U:C4	2.73	0.56
3:K:73:A:C2'	3:K:74:A:C5'	2.83	0.56
6:N:387:U:H2'	6:N:388:U:H6	1.71	0.56
1:I:24:A:H2'	1:I:25:A:H8	1.71	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
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
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
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:361:A:O2'	1:I:362:A:C4'	2.54	0.56
2:J:228:A:C4	2:J:229:A:N7	2.73	0.56
2:J:162:A:N6	2:J:163:A:N6	2.54	0.56
1:I:295:A:C2	1:I:296:A:C4	2.93	0.56
2:J:136:A:H2'	2:J:137:A:C8	2.30	0.56
2:J:68:A:C4	2:J:69:A:C8	2.93	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
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
3:K:95:A:C2'	3:K:96:A:O5'	2.53	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
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
1:I:132:A:C2	1:I:133:A:N9	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:198:A:C2	1:I:199:A:C8	2.93	0.56
4:L:625:U:O2'	4:L:626:U:P	2.63	0.56
2:J:206:A:C2'	2:J:207:A:O4'	2.53	0.56
4:L:622:U:C2	4:L:623:U:C6	2.93	0.56
2:J:234:A:C2	2:J:235:A:C4	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:295:U:C2	6:N:296:U:C5	2.93	0.56
3:K:5:A:O2'	3:K:6:A:C5'	2.53	0.56
1:I:292:A:N3	1:I:293:A:C8	2.74	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
2:J:107:A:H2'	2:J:108:A:C5'	2.34	0.56
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:173:A:C2'	2:J:174:A:C8	2.73	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
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
2:J:222:A:H2'	2:J:223:A:O4'	2.05	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
3:K:166:A:N1	3:K:167:A:C5	2.74	0.56
6:N:379:U:H2'	6:N:380:U:H6	1.69	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
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
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
1:I:223:A:C2	1:I:224:A:C5	2.94	0.56
4:L:540:U:O2'	4:L:541:U:P	2.62	0.56
6:N:499:U:N3	6:N:500:U:C4	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:362:A:C6	1:I:363:A:C6	2.93	0.56
2:J:166:A:N1	2:J:167:A:C5	2.73	0.56
1:I:403:A:C2'	1:I:404:A:C5'	2.83	0.56
2:J:254:A:N3	2:J:255:A:C8	2.74	0.56
2:J:146:A:H2'	2:J:147: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:9:A:H2'	2:J:10:A:C8	2.40	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
2:J:216:A:H2	2:J:217:A:C5	2.16	0.56
1:I:337:A:H2'	1:I:338:A:O5'	2.06	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
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
1:I:9:A:C2'	1:I:10:A:H5'	2.35	0.56
1:I:76:A:C5	1:I:77:A:N7	2.73	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
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
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
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
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
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
1:I:30:A:C2	1:I:31:A:C4	2.93	0.56
2:J:235:A:N3	2:J:236:A:C8	2.74	0.56
2:J:158:A:H2'	2:J:159:A:H8	1.70	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
5:M:534:U:O2	5:M:535:U:C5	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:219:A:N1	2:J:220:A:C5	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
3:K:173:A:H2'	3:K:174:A:O5'	2.06	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
6:N:376:U:N3	6:N:377:U:C5	2.73	0.56
3:K:89:A:C2	6:N:443:U:C2	2.94	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:66:A:N6	1:I:67:A:H62	2.04	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
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
4:L:638:U:HO2'	4:L:639:U:C5'	1.87	0.56
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
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
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
1:I:375:A:O2'	1:I:376:A:C5'	2.54	0.56
4:L:459:U:C2'	4:L:460:U:O4'	2.52	0.56
6:N:292:U:C4	6:N:293:U:O4	2.59	0.56
4:L:449:U:C2	4:L:450:U:C6	2.94	0.56
2:J:257:A:H2'	2:J:258:A:H8	1.70	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
2:J:80:A:O2'	2:J:81:A:H5'	2.06	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
1:I:315:A:H2'	1:I:316:A:H8	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:342:A:HO2'	1:I:343:A:H5'	1.66	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
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:70:A:H2'	3:K:71:A:H8	1.70	0.56
6:N:352:U:C2'	6:N:353:U:H5'	2.36	0.56
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
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
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
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
1:I:225:A:C2	1:I:226:A:C5	2.94	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
6:N:481:U:O2'	6:N:482:U:C4'	2.51	0.56
1:I:361:A:HO2'	1:I:362:A:C4'	2.18	0.56
3:K:193:A:H2'	3:K:194:A:C8	2.40	0.56
2:J:105:A:C4	2:J:106:A:N7	2.73	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
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
5:M:315:U:C2	5:M:316:U:C5	2.94	0.55
1:I:322:A:C2'	1:I:323:A:C5'	2.84	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
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
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
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
1:I:202:A:N3	1:I:203:A:C8	2.74	0.55
3:K:236:A:H2'	3:K:237:A:C8	2.39	0.55
6:N:350:U:C2	6:N:351:U:C5	2.93	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: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
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
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
4:L:483:U:H2'	4:L:484:U:H6	1.71	0.55
3:K:119:A:N1	3:K:120:A:C4	2.74	0.55
6:N:446:U:O2	6:N:447:U:C6	2.59	0.55
1:I:27:A:HO2'	1:I:28:A:H5'	1.70	0.55
1:I:48:A:N3	1:I:49:A:C8	2.74	0.55
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:L:641:U:H2'	4:L:642:U:H6	1.71	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
4:L:576:U:H2'	4:L:577:U:H6	1.71	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:181:A:O2'	3:K:182:A:O5'	2.24	0.55
3:K:46:A:O3'	3:K:47:A:O5'	2.23	0.55
2:J:102:A:C6	2:J:103:A:C6	2.95	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: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
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
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
3:K:105:A:C6	3:K:106:A:C5	2.94	0.55
3:K:105:A:O2'	3:K:106:A:C5'	2.54	0.55
3:K:174:A:C2'	3:K:175:A:C5'	2.84	0.55
3:K:64:A:O2'	3:K:65:A:C4'	2.54	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:21:A:C6	1:I:22:A:C6	2.94	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:262:A:C2	1:I:263:A:N9	2.74	0.55
4:L:618:U:C2'	4:L:619:U:H5'	2.35	0.55
1:I:373:A:C5	1:I:374:A:N7	2.75	0.55
4:L:458:U:C2'	4:L:459:U:H5'	2.36	0.55
1:I:30:A:H2'	1:I:31:A:O5'	2.05	0.55
2:J:159:A:C2'	2:J:160:A:H8	2.16	0.55
6:N:296:U:O4	6:N:297:U:O4	2.24	0.55
2:J:260:A:HO2'	2:J:261:A:H5'	1.71	0.55
5:M:297:U:H2'	5:M:298:U:C5'	2.36	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:29:A:C2	2:J:30:A:C8	2.94	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
5:M:322:U:C2'	5:M:323:U:C4'	2.82	0.55
1:I:341:A:C2	1:I:342:A:C4	2.95	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
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
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
4:L:738:U:N3	4:L:739:U:C5	2.74	0.55
4:L:781:U:O2'	4:L:782:U:H5'	2.06	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
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
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:375:A:C2	1:I:376:A:C4	2.94	0.55
3:K:18:A:C6	3:K:19:A:N6	2.74	0.55
4:L:447:U:C3'	4:L:448:U:OP2	2.54	0.55
2:J:257:A:C2'	2:J:258:A:C5'	2.84	0.55
6:N:513:U:O2'	6:N:514:U:H5'	2.06	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
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
2:J:222:A:N3	2:J:223:A:C8	2.75	0.55
4:L:496:U:N3	4:L:497:U:C5	2.74	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
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:22:A:C2	1:I:23:A:C4	2.94	0.55
4:L:758:U:H2'	4:L:759:U:C4'	2.36	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:200:A:HO2'	1:I:201:A:H5'	1.67	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
2:J:206:A:N1	2:J:207:A:C5	2.74	0.55
5:M:348:U:C6	5:M:349:U:C5	2.94	0.55
1:I:274:A:H2	1:I:275:A:C4	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:616:U:C2	4:L:617:U:C5	2.95	0.55
2:J:249:A:C4	2:J:250:A:C8	2.95	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
6:N:311:U:C2	6:N:312:U:C6	2.95	0.55
4:L:448:U:O4	4:L:449:U:O4	2.23	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: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
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
5:M:514:U:HO2'	5:M:515:U:H5'	1.65	0.55
2:J:214:A:C4	2:J:215:A:C8	2.94	0.55
5:M:318:U:H2'	5:M:319:U:H6	1.71	0.55
4:L:477:U:C2'	4:L:478:U:O4'	2.54	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
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
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
4:L:659:U:H2'	4:L:660:U:C6	2.42	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
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
4:L:614:U:H2'	4:L:615:U:H6	1.72	0.55
6:N:524:U:C3'	6:N:525:U:OP2	2.54	0.55
2:J:103:A:H2'	2:J:104:A:O5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
5:M:544:U:H2'	5:M:545:U:C6	2.35	0.55
5:M:323:U:O2	5:M:324:U:N1	2.40	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
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
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
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:80:A:O2'	1:I:81:A:H5'	2.06	0.55
3:K:257:A:H2'	3:K:258:A:C8	2.40	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
4:L:646:U:C2	4:L:647:U:C6	2.95	0.55
2:J:206:A:N3	2:J:207:A:N9	2.55	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
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
2:J:161:A:C2	2:J:162:A:C8	2.94	0.55
6:N:309:U:C2	6:N:310:U:C5	2.95	0.55
3:K:45:A:HO2'	3:K:46:A:C4'	2.20	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
2:J:8:A:H2'	2:J:9:A:H8	1.72	0.55
2:J:8:A:C2	2:J:9:A:N9	2.75	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
1:I:305:A:C6	1:I:306:A:N7	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:320:A:H2'	1:I:321:A:C5'	2.36	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
3:K:97:A:C2'	3:K:98:A:C4'	2.83	0.55
6:N:416:U:H2'	6:N:417:U:C6	2.42	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
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
1:I:138:A:C2'	1:I:139:A:O4'	2.51	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
1:I:212:A:C2'	1:I:213:A:O5'	2.54	0.55
1:I:235:A:C4	1:I:236:A:C8	2.95	0.55
1:I:235:A:C2	1:I:236:A:N7	2.75	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
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:414:U:H2'	4:L:415:U:H6	1.72	0.55
6:N:335:U:N3	6:N:336:U:C4	2.75	0.55
6:N:294:U:C2'	6:N:295:U:C5'	2.84	0.55
5:M:300:U:H2'	5:M:301:U:C5'	2.37	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
5:M:517:U:H2'	5:M:518:U:H6	1.72	0.55
5:M:313:U:C3'	5:M:314:U:P	2.94	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
3:K:146:A:N1	3:K:147:A:C5	2.74	0.55
3:K:54:A:O2'	3:K:55:A:P	2.65	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:151:A:C2	1:I:152:A:C5	2.95	0.55
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
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
2:J:211:A:H2'	2:J:212:A:O4'	2.06	0.55
1:I:222:A:N3	1:I:223:A:C8	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:265:A:N1	2:J:266:A:C5	2.74	0.55
1:I:366:A:O2'	1:I:367:A:H5'	2.06	0.55
4:L:423:U:N3	4:L:424:U:C4	2.75	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:298:U:O2'	6:N:299:U:H5'	2.07	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
4:L:443:U:H2'	4:L:444:U:H6	1.72	0.55
3:K:181:A:C2	3:K:182:A:N7	2.74	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
3:K:224:A:H2'	3:K:225:A:H8	1.72	0.55
3:K:189:A:C6	3:K:190:A:N6	2.75	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:32:A:C2	2:J:33:A:C5	2.95	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
2:J:221:A:N3	2:J:222:A:C8	2.75	0.55
1:I:340:A:O2'	1:I:341:A:C5'	2.55	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
1:I:307:A:C2	4:L:519:U:C2	2.95	0.55
3:K:103:A:C2'	3:K:104:A:H5'	2.36	0.55
6:N:420:U:C2	6:N:421:U:C6	2.95	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
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
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
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
2:J:200:A:C2	2:J:201:A:N9	2.74	0.55
1:I:237:A:H2'	1:I:238:A:O4'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:283:A:O2'	1:I:284:A:C5'	2.55	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
1:I:376:A:O2'	1:I:377:A:P	2.65	0.55
1:I:353:A:C4	1:I:354:A:C8	2.95	0.55
1:I:295:A:C2'	1:I:296:A:C5'	2.85	0.55
1:I:387:A:C2'	1:I:388:A:C5'	2.84	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
2:J:105:A:C4	2:J:106:A:C8	2.94	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
5:M:372:U:C2	5:M:373:U:C5	2.94	0.54
5:M:473:U:HO2'	5:M:474:U:H5'	1.67	0.54
5:M:528:U:C2	5:M:529:U:C6	2.94	0.54
3:K:105:A:C2'	3:K:106:A:C5'	2.85	0.54
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:147:A:C2	3:K:148:A:C8	2.94	0.54
3:K:146:A:C4	3:K:147:A:N7	2.75	0.54
3:K:151:A:C2	3:K:152:A:N7	2.75	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: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
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
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
4:L:610:U:O2'	4:L:611:U:H5'	2.07	0.54
2:J:228:A:C5	2:J:229:A:N7	2.75	0.54
5:M:294:U:C2	5:M:295:U:C5	2.95	0.54
2:J:128:A:C5	2:J:129:A:N7	2.75	0.54
2:J:39:A:C2	2:J:40:A:C4	2.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:335:U:P	5:M:336:U:OP2	2.66	0.54
3:K:113:A:C2'	3:K:114:A:H5'	2.36	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
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
1:I:26:A:H2'	1:I:27:A:O4'	2.07	0.54
4:L:745:U:N3	4:L:746:U:C4	2.75	0.54
3:K:250:A:C2	3:K:251:A:N9	2.75	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
2:J:203:A:C2	5:M:351:U:C2	2.95	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
6:N:483:U:O5'	6:N:484:U:OP2	2.26	0.54
1:I:202:A:C2	1:I:203:A:C8	2.96	0.54
4:L:416:U:H2'	4:L:417:U:C6	2.42	0.54
2:J:230:A:HO2'	2:J:231:A:C4'	2.20	0.54
2:J:230:A:H2'	2:J:231:A:C5'	2.35	0.54
2:J:156:A:C2	2:J:157:A:C4	2.95	0.54
3:K:194:A:H2'	3:K:195:A:C8	2.42	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: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
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
5:M:449:U:C2	5:M:450:U:C6	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:317:A:C2'	1:I:318:A:O5'	2.55	0.54
4:L:508:U:H2'	4:L:509:U:H6	1.72	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
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
4:L:766:U:C5	4:L:767:U:H5	2.23	0.54
4:L:766:U:C5'	4:L:767:U:P	2.95	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
1:I:180:A:N1	1:I:181:A:C5	2.75	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
1:I:282:A:N1	1:I:283:A:C5	2.75	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
2:J:263:A:C5	2:J:264:A:N7	2.75	0.54
4:L:416:U:H2'	4:L:417:U:H6	1.70	0.54
2:J:230:A:C2'	2:J:231:A:O5'	2.55	0.54
6:N:318:U:C2	6:N:319:U:C4	2.96	0.54
1:I:291:A:C2	1:I:292:A:C4	2.96	0.54
3:K:191:A:C2'	3:K:192:A:C5'	2.86	0.54
2:J:150:A:C2	2:J:151:A:C8	2.95	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:539:U:H2'	5:M:540:U:C5'	2.31	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
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
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
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
3:K:256:A:C2	3:K:257:A:C4	2.96	0.54
1:I:152:A:C6	1:I:153:A:C6	2.96	0.54
4:L:660:U:C2	4:L:661:U:C6	2.95	0.54
4:L:689:U:HO2'	4:L:690:U:H5'	1.70	0.54
6:N:484:U:H2'	6:N:485:U:C4'	2.33	0.54
4:L:458:U:H2'	4:L:459:U:C6	2.42	0.54
1:I:384:A:HO3'	1:I:385:A:P	2.26	0.54
3:K:6:A:C5	3:K:7:A:N7	2.74	0.54
3:K:192:A:C5	3:K:193:A:N7	2.75	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: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
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
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
1:I:307:A:C2'	1:I:308:A:H5'	2.37	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
3:K:137:A:C2	3:K:138:A:C8	2.96	0.54
3:K:155:A:C5	3:K:156:A:C8	2.82	0.54
3:K:154:A:C2'	3:K:155:A:H8	2.20	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
6:N:450:U:C4	6:N:451:U:C5	2.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:4:A:H2'	1:I:5:A:N7	2.23	0.54
1:I:57:A:N6	1:I:58:A:N6	2.55	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
1:I:130:A:C2	4:L:696:U:C2	2.95	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
2:J:203:A:N1	2:J:204:A:C5	2.76	0.54
5:M:343:U:H2'	5:M:344:U:H6	1.72	0.54
1:I:213:A:C2'	1:I:214:A:C5'	2.86	0.54
1:I:269:A:N1	1:I:270:A:C5	2.75	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
6:N:483:U:C6	6:N:484:U:H5	2.25	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
1:I:366:A:H2'	1:I:367:A:H8	1.73	0.54
2:J:165:A:N6	2:J:166:A:N6	2.56	0.54
2:J:179:A:C2	2:J:180:A:N7	2.75	0.54
2:J:39:A:N3	2:J:40:A:C8	2.75	0.54
2:J:4:A:H2'	2:J:5:A:C8	2.42	0.54
2:J:67:A:C2	2:J:68:A:C4	2.96	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
1:I:334:A:H2'	1:I:335:A:C5'	2.38	0.54
4:L:485:U:N3	4:L:486:U:C5	2.76	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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:94:A:C2	1:I:95:A:C5	2.95	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
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
4:L:718:U:O2	4:L:719:U:C1'	2.56	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
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
3:K:38:A:O2'	3:K:39:A:O5'	2.25	0.54
5:M:297:U:C2	5:M:298:U:C6	2.95	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:6:A:N3	2:J:7:A:C8	2.76	0.54
2:J:72:A:H2'	2:J:73:A:H8	1.73	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
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
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
3:K:87:A:N3	3:K:88:A:C8	2.76	0.54
6:N:353:U:H2'	6:N:354:U:H6	1.73	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
4:L:787:U:C2	4:L:788:U: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:209:A:H2'	2:J:210:A:C5'	2.36	0.54
5:M:345:U:O2'	5:M:346:U:H5'	2.07	0.54
1:I:229:A:H2'	1:I:230:A:C8	2.43	0.54
4:L:414:U:H2'	4:L:415:U:C6	2.43	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: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:47:A:N3	2:J:48:A:C8	2.75	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
2:J:223:A:N3	2:J:224:A:C8	2.75	0.54
1:I:323:A:O2'	1:I:324:A:C4'	2.53	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
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
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: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
4:L:692:U:H2'	4:L:693:U:O5'	2.07	0.54
1:I:240:A:H2	1:I:241:A:C4	2.18	0.54
1:I:239:A:C2	1:I:240:A:N9	2.76	0.54
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
2:J:229:A:N3	2:J:230:A:N9	2.56	0.54
2:J:163:A:H2'	2:J:164:A:H8	1.72	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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:138:A:O2'	3:K:139:A:P	2.64	0.54
3:K:137:A:C2'	3:K:138:A:O5'	2.55	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:88:A:C2'	3:K:89:A:O5'	2.44	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: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
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
1:I:133:A:N3	1:I:134:A:N9	2.56	0.54
2:J:200:A:O2'	2:J:201:A:P	2.62	0.54
5:M:352:U:H2'	5:M:353:U:H6	1.72	0.54
1:I:213:A:C2'	1:I:214:A:H5'	2.38	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
4:L:432:U:H2'	4:L:433:U:H6	1.73	0.54
3:K:200:A:H2'	3:K:201:A:C8	2.42	0.54
1:I:391:A:N6	1:I:392:A:N6	2.56	0.54
3:K:31:A:H62	3:K:32:A:H62	1.52	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:459:U:C2'	5:M:460:U:H5'	2.37	0.54
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
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
4:L:531:U:H2'	4:L:532:U:H5'	1.86	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
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: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
4:L:659:U:H2'	4:L:660:U:H6	1.73	0.54
2:J:198:A:H2'	2:J:199:A:H8	1.73	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
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
1:I:352:A:H2'	1:I:353:A:C8	2.41	0.54
2:J:157:A:N3	2:J:158:A:C8	2.76	0.54
1:I:295:A:C2	1:I:296:A:N9	2.76	0.54
2:J:181:A:H2'	2:J:182:A:H8	1.73	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
5:M:527:U:C2'	5:M:528:U:C5'	2.86	0.53
2:J:224:A:C2	2:J:225:A:C4	2.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:331:A:N6	1:I:332:A:H62	2.06	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
3:K:87:A:C4	3:K:88:A:C8	2.95	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
1:I:10:A:HO2'	1:I:11:A:H5'	1.71	0.53
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
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
2:J:205:A:N3	2:J:206:A:C1'	2.71	0.53
1:I:262:A:N1	1:I:263:A:C5	2.76	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
2:J:161:A:C4	2:J:162:A:C8	2.96	0.53
6:N:338:U:N1	6:N:339:U:C5	2.76	0.53
3:K:29:A:H2'	3:K:30:A:H8	1.72	0.53
1:I:291:A:H2'	1:I:292:A:O4'	2.08	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:99:A:N1	2:J:100:A:C6	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:395:U:HO2'	5:M:396:U:C5'	1.95	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
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
1:I:315:A:C2'	1:I:316:A:O4'	2.55	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
3:K:71:A:N1	3:K:72:A:C5	2.74	0.53
6:N:370:U:C2	6:N:371:U:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:413:U:C4	6:N:414:U:C4	2.95	0.53
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
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
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
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
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
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
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
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:353:A:O2'	1:I:354:A:C4'	2.56	0.53
1:I:202:A:O2'	1:I:203:A:C4'	2.52	0.53
4:L:419:U:H2'	4:L:420:U:C6	2.42	0.53
3:K:216:A:H2'	3:K:217:A:H8	1.73	0.53
1:I:296:A:C2'	1:I:297:A:O5'	2.57	0.53
2:J:257:A:H2'	2:J:258:A:C8	2.43	0.53
5:M:298:U:N3	5:M:299:U:C5	2.76	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
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
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
1:I:304:A:H2'	1:I:305:A:O5'	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:155:A:H2'	3:K:156:A:C8	2.43	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
6:N:428:U:O2	6:N:429:U:C6	2.61	0.53
1:I:59:A:O2'	1:I:60:A:C5'	2.43	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
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
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
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
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:467:U:H2'	4:L:468:U:O5'	2.09	0.53
4:L:425:U:H2'	4:L:426:U:H6	1.72	0.53
3:K:206:A:C2'	3:K:207:A:O4'	2.55	0.53
6:N:303:U:H2'	6:N:304:U:H6	1.71	0.53
3:K:227:A:H2'	3:K:228:A:H8	1.68	0.53
2:J:130:A:C2'	2:J:131:A:O5'	2.57	0.53
2:J:32:A:H2'	2:J:33:A:H8	1.72	0.53
5:M:360:U:H2'	5:M:361:U:O5'	2.06	0.53
2:J:137:A:H2	5:M:417:U:O2	1.91	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
5:M:326:U:H2'	5:M:327:U:O5'	2.08	0.53
1:I:321:A:HO2'	1:I:322:A:H5'	1.68	0.53
1:I:333:A:C4	1:I:334:A:C8	2.96	0.53
4:L:520:U:H2'	4:L:521:U:O5'	2.08	0.53
4:L:520:U:C2'	4:L:521:U:H5'	2.38	0.53
4:L:524:U:C2'	4:L:525:U:O5'	2.57	0.53
3:K:167:A:C2	6:N:365:U:C2	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:69:A:C2	1:I:70:A:N9	2.76	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
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
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
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:270:A:HO2'	1:I:271:A:C4'	2.21	0.53
2:J:263:A:C4	2:J:264:A:C8	2.97	0.53
1:I:359:A:C6	1:I:360:A:N6	2.76	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
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
2:J:12:A:O2'	2:J:13:A:H5'	2.09	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
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
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
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
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
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
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
1:I:5:A:H2'	1:I:6:A:H8	1.73	0.53
4:L:735:U:C2	4:L:736:U:C6	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:778:U:HO2'	4:L:779:U:H5'	1.67	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
5:M:347:U:C2	5:M:348:U:C5	2.96	0.53
1:I:283:A:C4	1:I:284:A:C8	2.94	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
6:N:483:U:C4	6:N:484:U:C5	2.96	0.53
1:I:33:A:C2	1:I:34:A:C4	2.97	0.53
4:L:429:U:H2'	4:L:430:U:H6	1.74	0.53
3:K:210:A:H2'	3:K:211:A:C8	2.43	0.53
6:N:327:U:O2'	6:N:328:U:C4'	2.57	0.53
1:I:291:A:C4	1:I:292:A:C8	2.96	0.53
3:K:44:A:H2'	3:K:45:A:O4'	2.09	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:45:A:C4	2:J:46:A:C8	2.97	0.53
2:J:58:A:C2	2:J:59:A:C5	2.97	0.53
2:J:8:A:H2'	2:J:9:A:C5'	2.37	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
2:J:216:A:H2'	2:J:217:A:H8	1.74	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
1:I:329:A:C2'	1:I:330:A:O4'	2.55	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
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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:65:A:N1	1:I:66:A:C5	2.76	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
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
4:L:634:U:N3	4:L:635:U:C5	2.77	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
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:426:U:O2'	4:L:427:U:H5'	2.08	0.53
3:K:45:A:HO3'	3:K:46:A:P	2.27	0.53
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:38:A:C2	2:J:39:A:N7	2.76	0.53
2:J:217:A:N1	2:J:218:A:N6	2.55	0.53
1:I:320:A:N3	1:I:321:A:C8	2.77	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
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
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: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
4:L:795:U:C2	4:L:796:U:C5	2.97	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:197:A:HO2'	1:I:198:A:H5'	1.71	0.53
4:L:671:U:C2'	4:L:672:U:C5'	2.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:712:U:C5	4:L:713:U:C5	2.96	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
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
2:J:234:A:N3	2:J:235:A:C8	2.77	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
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: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
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
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:330:U:HO2'	5:M:331:U:H5'	1.71	0.53
1:I:334:A:C6	1:I:335:A:C5	2.97	0.53
4:L:510:U:O2'	4:L:511:U:C4'	2.57	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
1:I:65:A:N3	1:I:66:A:O4'	2.41	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
1:I:195:A:C2	1:I:196:A:C8	2.97	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
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
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
1:I:30:A:C2'	1:I:31:A:H5'	2.37	0.53
2:J:228:A:H2'	2:J:229:A:O4'	2.08	0.53
3:K:210:A:C2'	3:K:211:A:C5'	2.87	0.53
1:I:298:A:H2'	1:I:299:A:H8	1.73	0.53
6:N:515:U:C2'	6:N:516:U:H5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:527:U:C4	6:N:528:U:C4	2.96	0.53
1:I:169:A:N3	1:I:170:A:C8	2.76	0.53
2:J:61:A:H2'	2:J:62:A:H8	1.73	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
2:J:222:A:C5	2:J:223:A:C8	2.97	0.53
2:J:221:A:C2	2:J:222:A:C8	2.97	0.53
2:J:222:A:C6	2:J:223:A:N7	2.76	0.53
1:I:347:A:C2	1:I:348:A:C4	2.97	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
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
4:L:733:U:H2'	4:L:734:U:O5'	2.08	0.53
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
6:N:283:U:C2	6:N:284:U:C5	2.96	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
4:L:709:U:C2	4:L:710:U:C5	2.97	0.53
2:J:210:A:C5	2:J:211:A:N7	2.77	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
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
6:N:494:U:C2	6:N:495:U:C5	2.97	0.53
2:J:247:A:C2	2:J:248:A:C8	2.97	0.53
1:I:31:A:C4	1:I:32:A:N7	2.76	0.53
1:I:399:A:H2'	1:I:400:A:H8	1.74	0.53
2:J:149:A:C2	2:J:150:A:C8	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
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: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
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:58:A:C2'	1:I:59:A:C8	2.78	0.53
4:L:778:U:H2'	4:L:779:U:C6	2.38	0.53
4:L:809:U:H2'	4:L:810:U:C6	2.44	0.53
3:K:251:A:C5	3:K:252:A:N7	2.76	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
4:L:682:U:C2'	4:L:683:U:O4'	2.57	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
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
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
1:I:362:A:C4	1:I:363:A:N7	2.77	0.53
4:L:427:U:H2'	4:L:428:U:C6	2.44	0.53
6:N:299:U:C3'	6:N:300:U:P	2.94	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
3:K:33:A:HO2'	3:K:34:A:H5'	1.73	0.53
6:N:348:U:O2'	6:N:349:U:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:350:U:C4	6:N:351:U:C4	2.97	0.53
2:J:101:A:N1	2:J:102:A:C6	2.77	0.52
2:J:127:A:HO2'	2:J:128:A:C5'	1.96	0.52
2:J:193:A:C2'	2:J:194:A:C5'	2.87	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
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
1:I:340:A:C2	1:I:341:A:C4	2.98	0.52
4:L:474:U:HO2'	4:L:475:U:H5'	1.70	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
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
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
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
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
1:I:163:A:C4	1:I:164:A:C8	2.97	0.52
4:L:716:U:N3	4:L:717:U:C5	2.76	0.52
1:I:262:A:C2	1:I:263:A:C8	2.97	0.52
1:I:261:A:N1	1:I:262:A:C6	2.77	0.52
4:L:603:U:C2	4:L:604:U:C6	2.98	0.52
6:N:481:U:H2'	6:N:482:U:C6	2.38	0.52
4:L:467:U:C2'	4:L:468:U:C5'	2.86	0.52
2:J:264:A:C4	2:J:265:A:C8	2.97	0.52
1:I:33:A:H2'	1:I:34:A:C5'	2.38	0.52
6:N:313:U:C4	6:N:314:U:C4	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
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
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
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
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:96:A:C2	3:K:97:A:C5	2.97	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: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
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
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
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
2:J:203:A:C2	2:J:204:A:C4	2.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:270:A:H2'	1:I:271:A:O5'	2.06	0.52
4:L:574:U:C2	4:L:575:U:C6	2.94	0.52
2:J:168:A:C3'	2:J:169:A:OP2	2.57	0.52
3:K:17:A:O2'	3:K:18:A:H5'	2.09	0.52
3:K:233:A:O2'	3:K:234:A:H5'	2.09	0.52
3:K:35:A:C5	3:K:36:A:N7	2.78	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: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
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
2:J:222:A:C6	2:J:223:A:C5	2.98	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:327:A:HO2'	1:I:328:A:H5'	1.72	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
3:K:119:A:HO2'	3:K:120:A:C5'	1.91	0.52
3:K:169:A:C2'	3:K:170:A:C5'	2.88	0.52
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
6:N:466:U:HO2'	6:N:467:U:H5'	1.67	0.52
1:I:11:A:C6	1:I:12:A:C6	2.97	0.52
1:I:6:A:O2'	1:I:7:A:H5'	2.10	0.52
4:L:730:U:C2	4:L:731:U: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
4:L:712:U:C2'	4:L:713:U:C6	2.84	0.52
2:J:207:A:H2'	2:J:208:A:O4'	2.08	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
6:N:273:U:C2	6:N:274:U:C5	2.97	0.52
2:J:159:A:N6	2:J:160:A:H62	2.05	0.52
3:K:181:A:N3	3:K:182:A:N7	2.55	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)
5:M:289:U:H2'	5:M:290:U:C6	2.44	0.52
2:J:117:A:C2	2:J:118:A:N3	2.75	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
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
2:J:222:A:N1	2:J:223:A:C5	2.77	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
4:L:473:U:C4	4:L:474:U:C4	2.98	0.52
3:K:130:A:C4	3:K:131:A:C8	2.98	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
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:19:A:H2'	1:I:20:A:H8	1.74	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
4:L:777:U:C2	4:L:778:U:C5	2.97	0.52
1:I:101:A:N3	1:I:102:A:C5	2.53	0.52
4:L:645:U:H2'	4:L:646:U:H6	1.73	0.52
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
2:J:206:A:H2'	2:J:207:A:C4'	2.38	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
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
1:I:373:A:H62	1:I:374:A:H62	1.48	0.52
1:I:360:A:C2'	1:I:361:A:C5'	2.85	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:30:A:C2	1:I:31:A:N9	2.77	0.52
4:L:432:U:H2'	4:L:433:U:C6	2.45	0.52
3:K:212:A:C5	3:K:213:A:C5	2.98	0.52
1:I:292:A:H2'	1:I:293:A:O5'	2.09	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
5:M:293:U:C2	5:M:294:U:C5	2.97	0.52
2:J:191:A:H2'	2:J:192:A:O5'	2.09	0.52
2:J:36:A:C4	2:J:37:A:C8	2.96	0.52
5:M:449:U:HO2'	5:M:450:U:C5'	1.90	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
5:M:324:U:C2'	5:M:325:U:C6	2.88	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
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
3:K:89:A:H2'	3:K:90:A:H8	1.74	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
1:I:63:A:H2'	1:I:64:A:C8	2.44	0.52
4:L:731:U:C2'	4:L:732:U:H5'	2.39	0.52
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
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
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
5:M:347:U:N3	5:M:348:U:C5	2.77	0.52
1:I:244:A:C4	1:I:245:A:C8	2.98	0.52
4:L:576:U:HO2'	4:L:577:U:C5'	1.89	0.52
4:L:463:U:O2'	4:L:464:U:C4'	2.57	0.52
2:J:248:A:H2'	2:J:249:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:5:A:H2'	3:K:6:A:H8	1.74	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
5:M:295:U:C2	5:M:296:U:C5	2.98	0.52
2:J:16:A:C2'	2:J:17:A:H5'	2.40	0.52
2:J:183:A:N1	2:J:184:A:C4	2.77	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
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
5:M:335:U:C2'	5:M:336:U:H6	2.22	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
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: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
6:N:396:U:C2'	6:N:397:U:H5'	2.39	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:8:A:C4	1:I:9:A:N7	2.78	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
4:L:635:U:N3	4:L:636:U:C5	2.78	0.52
5:M:352:U:C2	5:M:353:U:C5	2.97	0.52
1:I:230:A:N3	1:I:231:A:C8	2.78	0.52
6:N:496:U:O2'	6:N:497:U:O4'	2.27	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
3:K:212:A:O5'	3:K:213:A:OP2	2.28	0.52
1:I:291:A:C2'	1:I:292:A:O5'	2.58	0.52
3:K:238:A:N6	3:K:239:A:N6	2.57	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
2:J:22:A:N3	2:J:23:A:C8	2.77	0.52
5:M:399:U:O2	5:M:400:U:C6	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:436:U:C2	5:M:437:U:C5	2.98	0.52
1:I:348:A:H2'	1:I:349:A:O5'	2.10	0.52
4:L:502:U:N3	4:L:503:U:C5	2.76	0.52
3:K:146:A:C4	3:K:147:A:C8	2.98	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
1:I:79:A:C6	1:I:80:A:C6	2.98	0.52
4:L:659:U:N3	4:L:660:U:C5	2.78	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
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
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:358:A:C2	1:I:359:A:N9	2.78	0.52
6:N:332:U:C2'	6:N:333:U:H6	2.20	0.52
3:K:10:A:O2'	3:K:11:A:H5'	2.10	0.52
3:K:195:A:H2'	3:K:196:A:C8	2.45	0.52
2:J:128:A:HO2'	2:J:129:A:H5'	1.70	0.52
2:J:128:A:C6	2:J:129:A:N7	2.77	0.52
2:J:184:A:HO2'	2:J:185:A:H5'	1.60	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
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
5:M:320:U:C2'	5:M:321:U:H5'	2.39	0.52
1:I:318:A:N3	1:I:319:A:C8	2.78	0.52
1:I:318:A:C2	1:I:319:A:C4	2.98	0.52
4:L:525:U:C2'	4:L:526:U:O5'	2.58	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: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
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:22:A:H2'	1:I:23:A:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:52:A:C4	1:I:53:A:C8	2.97	0.52
4:L:754:U:H2'	4:L:755:U:C5'	2.33	0.52
1:I:66:A:C2	4:L:760:U:C2	2.97	0.52
4:L:793:U:O4	4:L:794:U:O4	2.28	0.52
6:N:278:U:C2	6:N:279:U:C6	2.98	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
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
5:M:347:U:H2'	5:M:348:U:C4'	2.39	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
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
1:I:31:A:N1	1:I:32:A:C6	2.77	0.52
4:L:440:U:C3'	4:L:441:U:P	2.93	0.52
1:I:296:A:C2'	1:I:297:A:O4'	2.53	0.52
4:L:449:U:O2'	4:L:450:U:C5'	2.45	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: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: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
5:M:372:U:C4	5:M:373:U:C5	2.97	0.52
5:M:401:U:H2'	5:M:402:U:H6	1.74	0.52
5:M:401:U:C2	5:M:402:U:C5	2.98	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
5:M:337:U:O2	5:M:338:U:O4'	2.27	0.52
1:I:307:A:N3	1:I:308:A:C8	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:329:A:C6	1:I:330:A:C6	2.98	0.52
4:L:510:U:H2'	4:L:511:U:C5'	2.34	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
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
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
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
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
2:J:203:A:H2'	2:J:204:A:C8	2.42	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
4:L:586:U:C6	4:L:587:U:H5	2.28	0.52
6:N:485:U:H2'	6:N:486:U:C4'	2.31	0.52
1:I:203:A:C4	1:I:204:A:C8	2.97	0.52
2:J:233:A:C2	2:J:234:A:C5	2.98	0.52
5:M:287:U:H2'	5:M:288:U:O4'	2.10	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:26:A:N1	2:J:27:A:C5	2.78	0.52
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
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
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
1:I:343:A:H2'	1:I:344:A:H5'	1.90	0.52
4:L:513:U:H2'	4:L:514:U:C5'	2.39	0.52
3:K:72:A:O2'	3:K:73:A:H5'	2.10	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:209:A:C4	2:J:210: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
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
2:J:229:A:C3'	2:J:230:A:H5'	2.04	0.52
3:K:213:A:C2'	3:K:214:A:O4'	2.58	0.52
1:I:300:A:C2	1:I:301:A:N7	2.78	0.52
3:K:241:A:H3'	3:K:242:A:P	2.49	0.52
2:J:195:A:C2'	2:J:196:A:H5'	2.40	0.52
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:97:A:O2'	2:J:98:A:H5'	2.11	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
5:M:322:U:O2'	5:M:323:U:O4'	2.27	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
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
3:K:56:A:H2'	3:K:57:A:C8	2.44	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:40:A:C2	1:I:41:A:C5	2.99	0.51
1:I:4:A:O2'	1:I:5:A:P	2.67	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
1:I:159:A:C2	1:I:160:A:N7	2.78	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
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
2:J:157:A:H2'	2:J:158:A:H8	1.75	0.51
3:K:203:A:C2'	3:K:204:A:C8	2.87	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:43:A:C4	3:K:44:A:N7	2.78	0.51
2:J:146:A:C2'	2:J:147:A:H5'	2.39	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: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
5:M:372:U:C2'	5:M:373:U:C5'	2.88	0.51
5:M:530:U:C2'	5:M:531:U:C4'	2.85	0.51
1:I:317:A:H2'	1:I:318:A:H8	1.75	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
3:K:121:A:H61	3:K:122:A:N6	2.07	0.51
3:K:63:A:N3	3:K:64:A:C8	2.77	0.51
6:N:474:U:H2'	6:N:475:U:C5'	2.37	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:182:A:N3	1:I:183:A:C8	2.79	0.51
4:L:660:U:O2'	4:L:661:U:O4'	2.28	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
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
2:J:247:A:C4	2:J:248:A:C8	2.97	0.51
1:I:361:A:H2'	1:I:362:A:H8	1.75	0.51
4:L:418:U:C2	4:L:419:U:C5	2.97	0.51
2:J:159:A:C2'	2:J:160:A:C8	2.89	0.51
3:K:209:A:H2'	3:K:210:A:H8	1.71	0.51
6:N:335:U:H2'	6:N:336:U:H6	1.76	0.51
1:I:387:A:C4	1:I:388:A:C8	2.98	0.51
4:L:450:U:H2'	4:L:451:U:H6	1.76	0.51
3:K:238:A:C6	3:K:239:A:N6	2.78	0.51
5:M:306:U:C2	5:M:307:U:C6	2.99	0.51
3:K:49:A:C2	3:K:50:A:N9	2.77	0.51
2:J:113:A:C2'	2:J:114:A:H5'	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:M:336:U:N3	5:M:337:U:C4	2.72	0.51
1:I:313:A:C5	1:I:314:A:N7	2.79	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
3:K:114:A:C2	3:K:115:A:N9	2.77	0.51
3:K:85:A:HO2'	3:K:86:A:H5'	1.69	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: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
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
4:L:797:U:HO2'	4:L:798:U:H5'	1.72	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
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
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
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:456:U:C2	4:L:457:U:C5	2.98	0.51
2:J:235:A:H2'	2:J:236:A:O5'	2.09	0.51
6:N:327:U:C2'	6:N:328:U:H6	2.22	0.51
2:J:257:A:C4	2:J:258:A:C8	2.98	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
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: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
5:M:489:U:C2'	5:M:490:U:C4'	2.88	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
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
3:K:108:A:H2'	3:K:109:A:O4'	2.09	0.51
3:K:81:A:C2	3:K:82:A:C5	2.98	0.51
6:N:449:U:H2'	6:N:450:U:O5'	2.10	0.51
1:I:21:A:C2'	1:I:22:A:H5'	2.40	0.51
1:I:3:A:H2'	1:I:4:A:H8	1.75	0.51
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
1:I:107:A:N1	1:I:108:A:C6	2.72	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
5:M:355:U:C2'	5:M:356:U:C5'	2.87	0.51
1:I:225:A:C6	1:I:226:A:C6	2.99	0.51
1:I:230:A:H2'	1:I:231:A:C4'	2.40	0.51
1:I:230:A:O2'	1:I:231:A:C4'	2.57	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
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
6:N:505:U:O2'	6:N:506:U:H5'	2.10	0.51
1:I:296:A:C2	1:I:297:A:C4	2.98	0.51
3:K:180:A:C6	3:K:181:A:N6	2.78	0.51
2:J:255:A:C2	2:J:256:A:C8	2.99	0.51
5:M:285:U:C2	5:M:286:U:C5	2.98	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:318:U:C2'	5:M:319:U:O4'	2.56	0.51
5:M:317:U:O2'	5:M:318:U:H5'	2.10	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
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
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
6:N:393:U:H2'	6:N:394:U:H6	1.75	0.51
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: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
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
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
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
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
4:L:549:U:C4	4:L:550:U:C5	2.98	0.51
1:I:358:A:N1	1:I:359:A:C5	2.78	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
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
2:J:119:A:H2'	2:J:120:A:C8	2.45	0.51
2:J:33:A:C2	2:J:34:A:C5	2.98	0.51
2:J:33:A:N1	2:J:34:A:C5	2.78	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
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
4:L:525:U:H2'	4:L:526:U:C6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:K:97:A:C5	3:K:98:A:C8	2.97	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
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
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
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
4:L:581:U:C4	4:L:582:U:C4	2.99	0.51
1:I:361:A:C2	1:I:362:A:C4	2.98	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
5:M:300:U:C2	5:M:301:U:C6	2.98	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
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
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
3:K:90:A:C2	3:K:91:A:N9	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:L:666:U:C4	4:L:667:U:C4	2.99	0.51
2:J:204:A:C4	2:J:205:A:C5	2.97	0.51
1:I:272:A:N6	1:I:273:A:H61	1.99	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: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
2:J:159:A:C6	2:J:160:A:C5	2.98	0.51
4:L:451:U:C2	4:L:452:U:C5	2.99	0.51
6:N:519:U:C3'	6:N:520:U:P	2.96	0.51
2:J:12:A:N1	2:J:13:A:C5	2.78	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: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:46:A:C6	2:J:47:A:N7	2.79	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
2:J:218:A:N1	2:J:219:A:C5	2.79	0.51
1:I:310:A:C5	1:I:311:A:N7	2.78	0.51
4:L:501:U:HO2'	4:L:502:U:C5'	2.02	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: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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:253:A:N3	3:K:254:A:C8	2.79	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
4:L:629:U:H2'	4:L:630:U:O5'	2.09	0.51
4:L:629:U:C2'	4:L:630:U:C5'	2.89	0.51
4:L:719:U:H2'	4:L:720:U:C5	2.45	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
6:N:480:U:H2'	6:N:481:U:H6	1.74	0.51
2:J:167:A:O2'	2:J:168:A:H5'	2.11	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
4:L:451:U:H3'	4:L:452:U:P	2.46	0.51
3:K:42:A:H2'	3:K:43:A:H8	1.76	0.51
1:I:411:A:H2'	1:I:412:A:H8	1.75	0.51
2:J:120:A:C2'	2:J:121:A:H5'	2.34	0.51
2:J:123:A:O2'	2:J:124:A:O4'	2.28	0.51
2:J:133:A:H2'	2:J:134:A:C5'	2.40	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
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
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
1:I:337:A:C2	1:I:338:A:N9	2.79	0.51
3:K:109:A:C2'	3:K:110:A:C5'	2.88	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
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
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
4:L:748:U:H2'	4:L:749:U:H6	1.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:176:A:C6	1:I:177:A:N6	2.79	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
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
4:L:568:U:H2'	4:L:569:U:H6	1.76	0.51
6:N:484:U:H2'	6:N:485:U:H6	1.75	0.51
4:L:463:U:H2'	4:L:464:U:O4'	2.10	0.51
6:N:320:U:HO2'	6:N:321:U:C4'	2.24	0.51
3:K:38:A:C2	3:K:39:A:N7	2.78	0.51
6:N:286:U:O2'	6:N:287:U:H5'	2.10	0.51
2:J:120:A:C2'	2:J:121:A:C5'	2.88	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:8:A:H2'	2:J:9:A:O4'	2.11	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
4:L:530:U:H2'	4:L:531:U:C5'	2.40	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
3:K:82:A:N3	3:K:83:A:C8	2.79	0.51
6:N:375:U:C4	6:N:376:U:O4	2.64	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
4:L:802:U:H2'	4:L:803:U:O4'	2.11	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
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
2:J:208:A:O2'	2:J:209:A:H5'	2.10	0.51
5:M:353:U:C2	5:M:354:U:C6	2.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:353:A:C2'	1:I:354:A:C4'	2.89	0.51
2:J:229:A:N3	2:J:230:A:C8	2.79	0.51
6:N:332:U:C4	6:N:333:U:C4	2.99	0.51
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
2:J:8:A:C2'	2:J:9:A:O4'	2.58	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
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
5:M:333:U:O2	5:M:334:U:C6	2.64	0.50
4:L:470:U:C2	4:L:471:U:C5	2.99	0.50
3:K:91:A:H2'	3:K:92:A:C8	2.43	0.50
6:N:430:U:O2	6:N:431:U:C6	2.64	0.50
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
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
1:I:281:A:H2'	1:I:282:A:H8	1.76	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
3:K:217:A:N6	3:K:218:A:H62	2.09	0.50
6:N:340:U:H2'	6:N:341:U:C6	2.46	0.50
1:I:291:A:H2'	1:I:292:A:O5'	2.11	0.50
6:N:350:U:H2'	6:N:351:U:C6	2.46	0.50
2:J:190:A:C6	2:J:191:A:N6	2.78	0.50
2:J:35:A:N3	2:J:36:A:C8	2.80	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
5:M:338:U:C2	5:M:339:U:C5	2.99	0.50
1:I:326:A:C2	1:I:327:A:C4	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:327:A:O2'	1:I:328:A:C5'	2.52	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
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: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
3:K:254:A:H2'	3:K:255:A:C5'	2.40	0.50
4:L:723:U:C3'	4:L:724:U:H6	2.24	0.50
2:J:210:A:H2'	2:J:211:A:C4'	2.41	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
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: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
3:K:19:A:C3'	3:K:20:A:P	2.94	0.50
5:M:299:U:N3	5:M:300:U:C4	2.79	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: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
5:M:454:U:N1	5:M:455:U:C6	2.78	0.50
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
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
3:K:100:A:N3	3:K:101:A:N9	2.60	0.50
3:K:124:A:HO2'	3:K:125:A:C5'	2.25	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:83:A:C2	3:K:84:A:C8	3.00	0.50
6:N:401:U:C2	6:N:402:U:C5	3.00	0.50
1:I:66:A:C6	1:I:67:A:C6	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:76:A:C6	1:I:77:A:N7	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
3:K:249:A:C2	3:K:250:A:C4	2.99	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
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
1:I:263:A:C2	1:I:264:A:C4	3.00	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
2:J:247:A:O2'	2:J:248:A:C5'	2.55	0.50
1:I:361:A:HO2'	1:I:362:A:C5'	2.23	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
1:I:392:A:H2'	1:I:393:A:H8	1.76	0.50
3:K:35:A:H2'	3:K:36:A:C8	2.46	0.50
5:M:287:U:H2'	5:M:288:U:C6	2.39	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: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
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
2:J:216:A:H2'	2:J:217:A:C8	2.46	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
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
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:71:A:C2'	3:K:72:A:C8	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:77:A:C2'	3:K:78:A:C5'	2.88	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
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
4:L:811:U:C6	4:L:812:U:C5	3.00	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
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
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
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
3:K:213:A:O2'	3:K:214:A:H5'	2.11	0.50
3:K:191:A:H2'	3:K:192:A:O4'	2.10	0.50
6:N:521:U:H2'	6:N:522:U:H6	1.77	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:5:A:N3	2:J:6:A:C8	2.79	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
5:M:473:U:H2'	5:M:474:U:O5'	2.10	0.50
5:M:312:U:C3'	5:M:313:U:P	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
3:K:120:A:N3	3:K:121:A:C8	2.79	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
6:N:441:U:HO2'	6:N:442:U:H5'	1.72	0.50
1:I:73:A:C4	1:I:74:A:N7	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:706:U:H2'	4:L:707:U:C5'	2.42	0.50
1:I:243:A:H62	1:I:244:A:H62	1.50	0.50
1:I:262:A:C6	1:I:263:A:C5	2.99	0.50
1:I:33:A:H2'	1:I:34:A:O4'	2.12	0.50
4:L:417:U:H2'	4:L:418:U:C6	2.46	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
6:N:329:U:C2'	6:N:330:U:C6	2.84	0.50
3:K:232:A:O2'	3:K:233:A:H5'	2.11	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: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
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
5:M:310:U:H2'	5:M:311:U:C5'	2.41	0.50
4:L:478:U:C2	4:L:479:U:C6	3.00	0.50
1:I:294:A:N6	4:L:532:U:O4	2.44	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
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
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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:206:A:C2'	2:J:207:A:C4'	2.88	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
4:L:548:U:C2'	4:L:549:U:O4'	2.59	0.50
2:J:262:A:H2'	2:J:263:A:C8	2.46	0.50
6:N:309:U:C4	6:N:310:U:O4	2.64	0.50
3:K:41:A:C4	3:K:42:A:C8	3.00	0.50
6:N:512:U:H2'	6:N:513:U:H6	1.75	0.50
5:M:293:U:O2'	5:M:294:U:H5'	2.12	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:189:A:HO2'	2:J:190:A:H5'	1.77	0.50
2:J:193:A:H2'	2:J:194:A:C5'	2.40	0.50
2:J:70:A:N3	2:J:71:A:C1'	2.75	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
5:M:463:U:HO2'	5:M:464:U:H5'	1.72	0.50
1:I:321:A:C2	1:I:322:A:C8	2.99	0.50
4:L:493:U:N3	4:L:494:U:C5	2.80	0.50
3:K:152:A:C6	3:K:153:A:C5	2.99	0.50
3:K:72:A:H2'	3:K:73:A:O4'	2.11	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: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
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
1:I:106:A:C4	1:I:107:A:N7	2.80	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
2:J:211:A:C2	2:J:212:A:C4	3.00	0.50
5:M:347:U:H2'	5:M:348:U:C6	2.42	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
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
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
6:N:317:U:C2'	6:N:318:U:O4'	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:290:A:H2'	1:I:291:A:H8	1.76	0.50
3:K:37:A:H2'	3:K:38:A:C8	2.44	0.50
5:M:293:U:H2'	5:M:294:U:H6	1.77	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
5:M:392:U:H2'	5:M:393:U:C5'	2.31	0.50
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
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
3:K:115:A:C6	3:K:116:A:N6	2.80	0.50
3:K:115:A:H2'	3:K:116:A:O4'	2.11	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
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
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
4:L:810:U:N3	4:L:811:U:C4	2.80	0.50
1:I:134:A:C2	1:I:135:A:C4	2.95	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
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
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
6:N:490:U:C4	6:N:491:U:O4	2.65	0.50
2:J:231:A:C6	2:J:232:A:C6	3.00	0.50
1:I:299:A:N3	1:I:300:A:C8	2.80	0.50
1:I:299:A:C4	1:I:300:A:C8	3.00	0.50
6:N:300:U:C2	6:N:301:U:C5	3.00	0.50
1:I:393:A:H2'	1:I:394:A:H8	1.75	0.50
2:J:256:A:O2'	2:J:257:A:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:350:U:H2'	6:N:351:U:H6	1.77	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: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
5:M:471:U:H2'	5:M:472:U:C6	2.47	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
4:L:490:U:N3	4:L:491:U:C5	2.80	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:85:A:H2'	3:K:86:A:O5'	2.11	0.50
3:K:96:A:C2'	3:K:97:A:C4'	2.89	0.50
3:K:95:A:C2	3:K:96:A:N9	2.80	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
4:L:801:U:C2	4:L:802:U:C5	2.99	0.50
4:L:813:U:O4	4:L:814:U:O4	2.28	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
6:N:276:U:H2'	6:N:277:U:C6	2.47	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:182:A:H2'	1:I:183:A:O5'	2.12	0.50
4:L:710:U:N3	4:L:711:U:C5	2.80	0.50
5:M:343:U:C2	5:M:344:U:C5	3.00	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
4:L:571:U:N3	4:L:572:U:O4	2.42	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
2:J:160:A:C2	2:J:161:A:C5	3.00	0.50
3:K:203:A:N1	3:K:204:A:N6	2.59	0.50
1:I:386:A:C6	1:I:387:A:C5	2.98	0.50
6:N:526:U:C2	6:N:527:U:C6	2.99	0.50
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:151:A:C4	2:J:152:A:C8	3.00	0.49
2:J:56:A:N1	2:J:57:A:C5	2.80	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:98:A:C2'	3:K:99:A:C5'	2.89	0.49
6:N:422:U:N3	6:N:423:U:C4	2.80	0.49
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
4:L:782:U:O2'	4:L:783:U:C5'	2.56	0.49
1:I:110:A:C2'	1:I:111:A:O4'	2.59	0.49
4:L:693:U:N1	4:L:694:U:C5	2.77	0.49
1:I:225:A:C4	1:I:226:A:C8	3.00	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:597:U:HO2'	4:L:598:U:C5'	1.94	0.49
6:N:490:U:N3	6:N:491:U:C4	2.79	0.49
2:J:266:A:N3	2:J:267:A:C8	2.80	0.49
2:J:234:A:H2'	2:J:235:A:O5'	2.12	0.49
3:K:221:A:H2'	3:K:222:A:H8	1.77	0.49
3:K:31:A:C4	3:K:32:A:N7	2.80	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
2:J:254:A:H2'	2:J:255:A:O4'	2.12	0.49
6:N:527:U:N3	6:N:528:U:C5	2.80	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:8:A:H2'	2:J:9:A:O5'	2.11	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
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
1:I:313:A:N6	1:I:314:A:N6	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:526:U:C2'	4:L:527:U:C5'	2.89	0.49
3:K:81:A:C2'	3:K:82:A:O4'	2.58	0.49
6:N:460:U:H2'	6:N:461:U:H5	1.75	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
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
1:I:154:A:H2'	1:I:155:A:C8	2.45	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
2:J:200:A:C4	2:J:201:A:C8	3.00	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
4:L:612:U:C2	4:L:613:U:C5	3.00	0.49
1:I:371:A:C2'	1:I:372:A:H5'	2.41	0.49
4:L:463:U:HO2'	4:L:464:U:C4'	2.25	0.49
4:L:418:U:H2'	4:L:419:U:H6	1.77	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
6:N:311:U:H2'	6:N:312:U:C1'	2.37	0.49
1:I:405:A:H2'	1:I:406:A:H8	1.77	0.49
2:J:258:A:C2'	2:J:259:A:H5'	2.42	0.49
2:J:151:A:H2'	2:J:152:A:O4'	2.12	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
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
2:J:217:A:C6	2:J:218:A:C6	3.00	0.49
1:I:316:A:C6	1:I:317:A:C6	2.99	0.49
1:I:319:A:C5	1:I:320:A:N7	2.80	0.49
4:L:485:U:H2'	4:L:486:U:H6	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
4:L:811:U:N1	4:L:812:U:C5	2.78	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
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
4:L:586:U:C2'	4:L:587:U:H6	2.21	0.49
2:J:164:A:H2'	2:J:165:A:H8	1.77	0.49
1:I:384:A:C3'	1:I:385:A:P	2.96	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:195:A:H2'	3:K:196:A:H8	1.75	0.49
3:K:50:A:O2'	3:K:51:A:H5'	2.12	0.49
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:13:A:C2'	2:J:14:A:C5'	2.90	0.49
2:J:12:A:C2'	2:J:13:A:H5'	2.42	0.49
2:J:14:A:C2	5:M:540:U:C2	3.00	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
5:M:316:U:H2'	5:M:317:U:H6	1.76	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:17:A:N6	4:L:809:U:O4	2.46	0.49
1:I:25:A:HO2'	1:I:26:A:C5'	2.08	0.49
1:I:45:A:HO2'	1:I:46:A:H5'	1.76	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
6:N:279:U:C2	6:N:280:U:C5	3.00	0.49
1:I:118:A:N6	1:I:119:A:N6	2.60	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
2:J:207:A:C6	2:J:208:A:C5	3.00	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
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
2:J:249:A:H2'	2:J:250:A:O4'	2.12	0.49
4:L:430:U:H2'	4:L:431:U:H6	1.76	0.49
2:J:160:A:N3	2:J:161:A:N9	2.59	0.49
3:K:239:A:O2'	3:K:240:A:C5'	2.49	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:475:U:N3	4:L:476:U:C5	2.81	0.49
4:L:529:U:HO2'	4:L:530:U:C5'	2.00	0.49
3:K:151:A:C2	3:K:152:A:C4	3.00	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: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
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
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
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:192:A:HO2'	1:I:193:A:H5'	1.76	0.49
4:L:685:U:O2	4:L:686:U:C5	2.66	0.49
2:J:197:A:C2	2:J:198:A:C5	3.01	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
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:461:U:N3	4:L:462:U:C5	2.81	0.49
4:L:438:U:C2	4:L:439:U:H5	2.25	0.49
2:J:144:A:N1	2:J:145:A:C5	2.80	0.49
2:J:98:A:C6	2:J:99:A:N6	2.80	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
5:M:332:U:H2'	5:M:333:U:H6	1.78	0.49
1:I:317:A:C2	1:I:318:A:C8	3.00	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
4:L:510:U:HO2'	4:L:511:U:C4'	2.25	0.49
3:K:166:A:C2	3:K:167:A:C5	3.00	0.49
3:K:69:A:N6	3:K:70:A:H62	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:71:A:N3	3:K:72:A:N9	2.61	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: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
4:L:780:U:N3	4:L:781:U:C5	2.80	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
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
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
1:I:278:A:C2'	1:I:279:A:C4'	2.90	0.49
1:I:250:A:C2	4:L:576:U:C2	3.00	0.49
4:L:588:U:H2'	4:L:589:U:H6	1.78	0.49
2:J:264:A:C2	2:J:265:A:C5	3.00	0.49
1:I:358:A:N3	1:I:359:A:N7	2.49	0.49
3:K:221:A:C6	3:K:222:A:N6	2.80	0.49
6:N:321:U:C6	6:N:322:U:C5	3.00	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
5:M:530:U:N3	5:M:531:U:C5	2.80	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
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
3:K:137:A:C2	3:K:138:A:N9	2.81	0.49
6:N:416:U:O2	6:N:417:U:N1	2.46	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:161:A:C4	1:I:162:A:C8	3.01	0.49
2:J:199:A:N3	2:J:200:A:C8	2.81	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
4:L:541:U:C2'	4:L:542:U:O5'	2.61	0.49
4:L:549:U:HO2'	4:L:550:U:C4'	2.26	0.49
4:L:551:U:H2'	4:L:552:U:C6	2.47	0.49
6:N:488:U:O2'	6:N:489:U:C5'	2.51	0.49
1:I:376:A:H2'	1:I:377:A:C8	2.47	0.49
3:K:207:A:HO2'	3:K:208:A:C5'	2.25	0.49
1:I:393:A:C2'	1:I:394:A:H5'	2.41	0.49
3:K:179:A:C3'	3:K:180:A:P	2.93	0.49
6:N:516:U:C3'	6:N:517:U:P	2.98	0.49
2:J:186:A:C6	2:J:187:A:C5	3.00	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
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
2:J:218:A:C2	2:J:219:A:N9	2.80	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
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
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
3:K:53:A:C2	3:K:54:A:C8	3.00	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: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
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
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
4:L:687:U:H2'	4:L:688:U:H6	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:201:A:C4	2:J:202:A:N7	2.81	0.49
5:M:345:U:C2	5:M:346:U:C6	3.00	0.49
1:I:231:A:C2	1:I:232:A:C5	3.00	0.49
1:I:231:A:H2'	1:I:232:A:C5'	2.43	0.49
4:L:546:U:O2'	4:L:547:U:C4'	2.60	0.49
2:J:237:A:N1	2:J:238:A:C5	2.80	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:300:U:H2'	6:N:301:U:C6	2.47	0.49
3:K:18:A:N6	3:K:19:A:H62	2.09	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:38:A:N1	2:J:39:A:C5	2.81	0.49
2:J:5:A:C6	2:J:6:A:C6	3.01	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
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
2:J:225:A:C6	2:J:226:A:N7	2.81	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
2:J:224:A:C6	5:M:330:U:C4	3.01	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
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
3:K:172:A:C2	3:K:173:A:C8	3.00	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:346:U:H2'	5:M:347:U:C6	2.39	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:357:A:C2'	1:I:358:A:C5'	2.91	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
1:I:300:A:O2'	1:I:301:A:C5'	2.56	0.49
6:N:302:U:C2'	6:N:303:U:O4'	2.61	0.49
3:K:181:A:N1	3:K:182:A:C6	2.81	0.49
2:J:130:A:C4	2:J:131:A:C8	3.00	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
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
2:J:220:A:C4	2:J:221:A:C8	3.01	0.49
1:I:332:A:C5	1:I:333:A:N7	2.81	0.49
4:L:473:U:C4	4:L:474:U:O4	2.66	0.49
3:K:152:A:H2'	3:K:153:A:H8	1.78	0.49
3:K:165:A:N3	3:K:166:A:C1'	2.76	0.49
6:N:362:U:H2'	6:N:363:U:O5'	2.12	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:6:A:H2'	1:I:7:A:H8	1.78	0.49
1:I:188:A:C4	1:I:189:A:C8	3.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:350:U:N3	5:M:351:U:C5	2.81	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
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
2:J:235:A:C4	2:J:236:A:C8	3.01	0.49
4:L:449:U:C2'	4:L:450:U:H5'	2.39	0.49
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: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
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
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
1:I:325:A:C4	1:I:326:A:N7	2.81	0.48
1:I:306:A:N6	4:L:520:U:O4	2.46	0.48
3:K:122:A:N6	6:N:410:U:O4	2.46	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:16:A:N1	1:I:17:A:C5	2.81	0.48
4:L:764:U:C2'	4:L:765:U:C5'	2.91	0.48
3:K:256:A:H2'	3:K:257:A:C5'	2.42	0.48
6:N:278:U:O2'	6:N:279:U:H5'	2.12	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:182:A:HO2'	1:I:183:A:H5'	1.76	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
2:J:202:A:C2	2:J:203:A:N7	2.79	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
4:L:565:U:O2	4:L:566:U:C6	2.66	0.48
6:N:325:U:C3'	6:N:326:U:P	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
2:J:221:A:C2	2:J:222:A:N9	2.81	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
3:K:154:A:H2'	3:K:155:A:C1'	2.40	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
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: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
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
3:K:250:A:C2	3:K:251:A:C4	3.01	0.48
3:K:249:A:C2'	3:K:250:A:O5'	2.60	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
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
2:J:198:A:C2'	2:J:199:A:O5'	2.61	0.48
5:M:354:U:C2	5:M:355:U:H5	2.27	0.48
1:I:259:A:C6	1:I:260:A:C5	3.01	0.48
1:I:356:A:N6	1:I:357:A:N6	2.61	0.48
6:N:291:U:H2'	6:N:292:U:C6	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:293:U:H2'	6:N:294:U:O4'	2.13	0.48
5:M:299:U:H2'	5:M:300:U:C5'	2.42	0.48
2:J:195:A:HO2'	2:J:196:A:H5'	1.77	0.48
3:K:189:A:N6	3:K:190:A:H62	2.10	0.48
2:J:125:A:C4	2:J:126:A:N7	2.81	0.48
2:J:15:A:N3	2:J:16:A:C8	2.82	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
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
5:M:391:U:C2'	5:M:392:U:O5'	2.61	0.48
5:M:476:U:N3	5:M:477:U:C5	2.81	0.48
1:I:334:A:C6	1:I:335:A:N7	2.81	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
3:K:72:A:H2'	3:K:73:A:C8	2.48	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
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
4:L:747:U:N3	4:L:748:U:C4	2.81	0.48
4:L:763:U:C4	4:L:764:U:C4	3.01	0.48
4:L:763:U:C4	4:L:764:U:C5	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
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
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: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
6:N:496:U:O2'	6:N:497:U:C4'	2.62	0.48
1:I:297:A:N6	1:I:298:A:N6	2.61	0.48
3:K:36:A:N6	3:K:37:A:N6	2.60	0.48
2:J:102:A:C6	2:J:103:A:N6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:108:A:C2	2:J:109:A:C5	3.02	0.48
2:J:14:A:N1	2:J:15:A:C5	2.81	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:5:A:H2'	2:J:6:A:H8	1.77	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
2:J:128:A:C2	5:M:426:U:C2	3.01	0.48
5:M:526:U:O2	5:M:527:U:C6	2.66	0.48
2:J:220:A:C6	2:J:221:A:N7	2.81	0.48
5:M:322:U:H2'	5:M:323:U:O5'	2.14	0.48
1:I:321:A:N3	1:I:322:A:C8	2.81	0.48
4:L:509:U:C2	4:L:510:U:C6	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
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
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
1:I:16:A:C6	1:I:17:A:C6	3.02	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
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
4:L:699:U:N3	4:L:700:U:C4	2.81	0.48
2:J:197:A:N3	2:J:198:A:C8	2.81	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
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
2:J:248:A:H62	2:J:249:A:N6	1.95	0.48
1:I:354:A:C5	1:I:355:A:N7	2.81	0.48
6:N:312:U:C2'	6:N:313:U:H6	2.26	0.48
6:N:296:U:N3	6:N:297:U:C5	2.82	0.48
6:N:527:U:C4	6:N:528:U:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
2:J:225:A:C2'	2:J:226:A:O5'	2.54	0.48
5:M:316:U:C4	5:M:317:U:O4	2.66	0.48
1:I:342:A:C6	1:I:343:A:N7	2.81	0.48
4:L:515:U:C2'	4:L:516:U:H5'	2.43	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: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
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
1:I:22:A:H2'	1:I:23:A:O4'	2.12	0.48
4:L:810:U:H2'	4:L:811:U:C4'	2.43	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
1:I:138:A:H2'	1:I:139:A:O5'	2.14	0.48
4:L:724:U:H2'	4:L:725:U:H6	1.79	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
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
6:N:486:U:C2	6:N:487:U:C5	3.01	0.48
2:J:234:A:H2'	2:J:235:A:C5'	2.42	0.48
1:I:388:A:C2	1:I:389:A:C4	3.01	0.48
2:J:253:A:C4	2:J:254:A:N7	2.82	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
2:J:63:A:H2'	2:J:64:A:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:67:A:C4	2:J:68:A:C8	3.02	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
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
4:L:471:U:H2'	4:L:472:U:H6	1.77	0.48
3:K:100:A:C2	3:K:101:A:C8	3.02	0.48
3:K:119:A:H2'	3:K:120:A:O4'	2.13	0.48
6:N:429:U:H2'	6:N:430:U:C6	2.46	0.48
3:K:102:A:N6	6:N:430:U:O4	2.47	0.48
6:N:439:U:C4	6:N:440:U:C4	3.02	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
6:N:278:U:C4	6:N:279:U:H5	2.28	0.48
1:I:128:A:O2'	1:I:129:A:H5'	2.14	0.48
1:I:185:A:HO2'	1:I:186:A:H5'	1.74	0.48
4:L:712:U:N3	4:L:713:U:C6	2.81	0.48
1:I:235:A:H2'	1:I:236:A:H8	1.78	0.48
4:L:619:U:C2	4:L:620:U:C6	3.01	0.48
6:N:502:U:H2'	6:N:503:U:C6	2.48	0.48
4:L:461:U:C2	4:L:462:U:C6	3.02	0.48
1:I:362:A:H2'	1:I:363:A:C8	2.48	0.48
4:L:434:U:O2'	4:L:435:U:H5'	2.13	0.48
6:N:520:U:C3'	6:N:521:U:P	2.96	0.48
2:J:18:A:C4	2:J:19:A:C8	3.02	0.48
2:J:191:A:N3	2:J:192:A:C8	2.81	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:5:A:N6	2:J:6:A:H62	2.09	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:222:A:N1	2:J:223:A:C4	2.82	0.48
4:L:527:U:C2	4:L:528:U:C5	3.01	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
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
6:N:395:U:H2'	6:N:396:U:O5'	2.14	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
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
1:I:200:A:C2	1:I:201:A:C8	3.02	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
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
1:I:232:A:C2	1:I:233:A:N9	2.81	0.48
1:I:262:A:C5	1:I:263:A:N7	2.81	0.48
6:N:490:U:C4	6:N:491:U:C5	3.02	0.48
2:J:245:A:C2'	2:J:246:A:C5'	2.91	0.48
1:I:30:A:C2'	1:I:31:A:C5'	2.91	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
1:I:298:A:H2'	1:I:299:A:C8	2.48	0.48
3:K:35:A:H2'	3:K:36:A:H8	1.77	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
6:N:286:U:H2'	6:N:287:U:H6	1.79	0.48
2:J:135:A:H61	2:J:136:A:N6	2.06	0.48
2:J:186:A:O2'	2:J:187:A:H5'	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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	3.02	0.48
2:J:96:A:C2'	2:J:97:A:C5'	2.92	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
2:J:217:A:C2	2:J:218:A:C5	3.01	0.48
1:I:307:A:C2	1:I:308:A:C4	3.01	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
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
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
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
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
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
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
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
5:M:342:U:O2'	5:M:343:U:H5'	2.13	0.48
1:I:206:A:O2'	1:I:207:A:C5'	2.62	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:459:U:C2'	4:L:460:U:O5'	2.61	0.48
2:J:263:A:N6	2:J:264:A:N6	2.61	0.48
2:J:234:A:C2'	2:J:235:A:O5'	2.60	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
6:N:326:U:N3	6:N:327:U:O4	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:327:U:C3'	6:N:328:U:C5'	2.67	0.48
1:I:403:A:HO2'	1:I:404:A:C4'	2.26	0.48
1:I:290:A:N6	1:I:291:A:N6	2.62	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:65:A:N1	2:J:66:A:C5	2.82	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
2:J:221:A:C4	2:J:222:A:C8	3.02	0.48
5:M:334:U:C4	5:M:335:U:C5	3.02	0.48
1:I:303:A:C2	1:I:304:A:N9	2.81	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
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
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
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
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
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
2:J:203:A:C2	2:J:204:A:C8	3.02	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
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
6:N:482:U:C2	6:N:483:U:C6	3.02	0.48
2:J:230:A:H2'	2:J:231:A:C8	2.49	0.48
6:N:341:U:H3'	6:N:342:U:OP2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:285:U:N3	5:M:286:U:C5	2.82	0.48
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
2:J:116:A:C4	2:J:117:A:N7	2.82	0.48
2:J:59:A:C2'	2:J:60:A:H5'	2.44	0.48
5:M:450:U:C2'	5:M:451:U:H6	2.10	0.48
5:M:454:U:C4	5:M:455:U:O4	2.67	0.48
5:M:324:U:C2'	5:M:325:U:C5'	2.92	0.48
4:L:521:U:HO2'	4:L:522:U:H5'	1.71	0.48
3:K:102:A:C2	3:K:103:A:C4	3.02	0.48
3:K:64:A:H2'	3:K:65:A:H8	1.79	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
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
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
1:I:109:A:HO2'	1:I:110:A:C4'	2.26	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
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
2:J:203:A:O2'	2:J:204:A:C5'	2.56	0.48
5:M:346:U:N3	5:M:347:U:C5	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
6:N:505:U:H2'	6:N:506:U:H6	1.78	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
2:J:237:A:H2'	2:J:238:A:H8	1.78	0.48
2:J:166:A:O2'	2:J:167:A:O5'	2.31	0.48
1:I:404:A:N6	1:I:405:A:H62	2.11	0.48
2:J:253:A:N3	2:J:254:A:C8	2.82	0.48
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
2:J:62:A:C2	2:J:63:A:C4	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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: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
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
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
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
3:K:249:A:C2'	3:K:250:A:C5'	2.92	0.47
6:N:277:U:O2	6:N:278:U:C6	2.67	0.47
1:I:114:A:C5	1:I:115:A:N7	2.81	0.47
5:M:350:U:O2	5:M:351:U:O4'	2.32	0.47
1:I:223:A:N1	1:I:224:A: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
6:N:492:U:C2'	6:N:493:U:O5'	2.62	0.47
6:N:332:U:C2'	6:N:333:U:C6	2.88	0.47
5:M:301:U:H2'	5:M:302:U:H6	1.78	0.47
2:J:174:A:H2'	2:J:175:A:C8	2.43	0.47
5:M:392:U:C3'	5:M:393:U:H5'	2.04	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:324:U:O2'	5:M:325:U:H5'	2.14	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
3:K:142:A:C2	3:K:143:A:C8	3.03	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
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
6:N:473:U:N1	6:N:474:U:C5	2.82	0.47
1:I:9:A:C2'	1:I:10:A:O5'	2.61	0.47
1:I:73:A:C2	1:I:74:A:N9	2.80	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
3:K:260:A:HO3'	3:K:261:A:P	2.30	0.47
1:I:122:A:H2'	1:I:123:A:O5'	2.13	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
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
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
1:I:30:A:C2'	1:I:31:A:O5'	2.61	0.47
4:L:433:U:C2	4:L:434:U:C5	3.02	0.47
2:J:157:A:C2	2:J:158:A:C5	3.02	0.47
6:N:339:U:C2'	6:N:340:U:O4'	2.62	0.47
5:M:290:U:H2'	5:M:291:U:C5'	2.43	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:49:A:C2	2:J:50:A:C5	3.02	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
1:I:338:A:C6	1:I:339:A:C5	3.02	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
3:K:165:A:C2'	3:K:166:A:C4'	2.88	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
1:I:14:A:H2'	1:I:15:A:C4'	2.24	0.47
1:I:22:A:HO2'	1:I:23:A:C5'	2.21	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
3:K:252:A:H3'	3:K:253:A:OP2	2.13	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
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: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
2:J:203:A:C4	2:J:204:A:N7	2.82	0.47
5:M:341:U:H2'	5:M:342:U:H6	1.79	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
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
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
4:L:462:U:N3	4:L:463:U:O4	2.47	0.47
2:J:266:A:C4	2:J:267:A:C8	3.03	0.47
1:I:359:A:H61	1:I:360:A:N6	2.07	0.47
1:I:300:A:C2	1:I:301:A:C4	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:288:U:C4	5:M:289:U:C5	3.02	0.47
3:K:50:A:H2'	3:K:51:A:H8	1.79	0.47
2:J:108:A:H2'	2:J:109:A:O5'	2.14	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
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
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
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
3:K:72:A:C5	3:K:73:A:N7	2.83	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:19:A:C6	1:I:20:A:C5	3.02	0.47
1:I:41:A:H2'	1:I:42:A:C8	2.41	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
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
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
1:I:259:A:HO2'	1:I:260:A:H5'	1.76	0.47
1:I:272:A:C6	1:I:273:A:C5	3.02	0.47
4:L:586:U:C2	4:L:587:U:C6	3.02	0.47
4:L:459:U:H2'	4:L:460:U:C4'	2.43	0.47
2:J:248:A:C6	2:J:249:A:N7	2.81	0.47
1:I:31:A:C2	1:I:32:A:C8	3.02	0.47
4:L:424:U:C4	4:L:425:U:C5	3.03	0.47
1:I:405:A:H2'	1:I:406:A:C8	2.49	0.47
3:K:43:A:N6	3:K:44:A:H61	2.01	0.47
2:J:252:A:H2'	2:J:253:A:C5'	2.44	0.47
5:M:300:U:H2'	5:M:301:U:H6	1.79	0.47
1:I:381:A:H2'	1:I:382:A:H8	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
5:M:338:U:O2'	5:M:339:U:O5'	2.32	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
4:L:483:U:C2'	4:L:484:U:O5'	2.62	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
6:N:363:U:C2	6:N:364:U:H5	2.24	0.47
1:I:83:A:C6	1:I:84:A:N7	2.82	0.47
4:L:790:U:H2'	4:L:791:U:H6	1.79	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
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:H2'	1:I:122:A:H8	1.78	0.47
1:I:121:A:N6	1:I:122:A:N6	2.62	0.47
1:I:199:A:C2	1:I:200:A:C8	3.02	0.47
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
2:J:205:A:HO2'	2:J:206:A:C5'	1.94	0.47
5:M:341:U:O2'	5:M:342:U:C5'	2.50	0.47
1:I:214:A:O2'	1:I:215:A:H5'	2.14	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
1:I:237:A:C2	4:L:589:U:C2	3.03	0.47
1:I:376:A:H61	1:I:377:A:H61	1.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:273:U:O2'	6:N:274:U:H5'	2.14	0.47
1:I:30:A:C2	1:I:31:A:C5	3.02	0.47
4:L:436:U:HO2'	4:L:437:U:C4'	2.24	0.47
2:J:228:A:C2	2:J:229:A:C5	3.02	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
3:K:181:A:C2	3:K:182:A:N9	2.83	0.47
6:N:513:U:H2'	6:N:514:U:C6	2.46	0.47
5:M:297:U:H2'	5:M:298:U:O5'	2.13	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: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: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
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
4:L:505:U:C4	4:L:506:U: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: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
3:K:96:A:C6	3:K:97:A:C5	3.03	0.47
6:N:362:U:H2'	6:N:363:U:C6	2.44	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
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
2:J:207:A:N1	2:J:208:A:C5	2.83	0.47
1:I:246:A:H2'	1:I:247:A:O5'	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
3:K:207:A:OP1	6:N:318:U:OP1	2.32	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
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
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
5:M:288:U:N3	5:M:289:U:C4	2.83	0.47
2:J:148:A:C5	2:J:149:A:N7	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:62:A:C2	2:J:63:A:N9	2.83	0.47
2:J:65:A:C4	2:J:66:A:N7	2.83	0.47
5:M:401:U:H2'	5:M:402:U:C6	2.50	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
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:25:A:N1	2:J:26:A:C5	2.83	0.47
2:J:35:A:C2	2:J:36:A:C8	3.02	0.47
2:J:64:A:N6	2:J:65:A:N6	2.63	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
5:M:370:U:C2	5:M:371:U:C4	3.01	0.47
5:M:402:U:C2	5:M:403:U:C6	3.03	0.47
5:M:324:U:C4	5:M:325:U:O4	2.67	0.47
5:M:318:U:O2'	5:M:319:U:C4'	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:475:U:C2	4:L:476:U:C5	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:63:A:C2	3:K:64:A:C4	3.03	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:16:A:C4	1:I:17:A:N7	2.80	0.47
1:I:67:A:N3	1:I:68:A:C8	2.82	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
1:I:21:A:O2'	1:I:22:A:C5'	2.60	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
3:K:247:A:C2	3:K:248:A:C5	3.02	0.47
6:N:283:U:N3	6:N:284:U:C5	2.83	0.47
3:K:259:A:HO3'	3:K:260:A:P	2.28	0.47
1:I:116:A:C2'	1:I:117:A:C5'	2.92	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:189:A:C2	1:I:190:A:C5	3.03	0.47
4:L:671:U:C2	4:L:672:U:C5	3.02	0.47
1:I:225:A:N6	1:I:226:A:H62	2.12	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
1:I:209:A:N3	1:I:210:A:C8	2.82	0.47
1:I:364:A:C2'	1:I:365:A:O5'	2.63	0.47
1:I:31:A:H2'	1:I:32:A:H8	1.80	0.47
2:J:233:A:C2	2:J:234:A:C8	3.02	0.47
2:J:156:A:H2'	2:J:157:A:H8	1.79	0.47
6:N:323:U:C2'	6:N:324:U:O4'	2.62	0.47
6:N:322:U:C4	6:N:323:U:C4	3.02	0.47
6:N:335:U:C4	6:N:336:U:C4	3.02	0.47
1:I:299:A:H2'	1:I:300:A:O5'	2.15	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:254:A:N1	2:J:255:A:C5	2.82	0.47
5:M:300:U:H2'	5:M:301:U:O5'	2.15	0.47
5:M:287:U:O2	5:M:288:U:N1	2.48	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
5:M:519:U:H2'	5:M:520:U:C6	2.46	0.47
4:L:513:U:H2'	4:L:514:U:H6	1.79	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:166:A:HO2'	3:K:167:A:C5'	2.00	0.47
3:K:98:A:C5	3:K:99:A:N7	2.83	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
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
6:N:282:U:C2	6:N:283:U:C5	3.03	0.47
1:I:177:A:C2	1:I:178:A:C5	3.03	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
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
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
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
1:I:365:A:N3	1:I:366:A:C8	2.82	0.47
2:J:162:A:N6	2:J:163:A:H62	2.12	0.47
3:K:203:A:O2'	3:K:204:A:C5'	2.58	0.47
6:N:335:U:O4	6:N:336:U:O4	2.32	0.47
3:K:38:A:C2'	3:K:39:A:O5'	2.60	0.47
2:J:255:A:N3	2:J:256:A:C8	2.82	0.47
5:M:298:U:H2'	5:M:299:U:C5'	2.44	0.47
2:J:184:A:H2'	2:J:185:A:C5'	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:185:A:C5	2:J:186:A:N7	2.83	0.47
2:J:48:A:H2'	2:J:49:A:H8	1.80	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
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
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
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
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
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
3:K:253:A:C2'	3:K:254:A:O4'	2.62	0.47
1:I:108:A:C5	1:I:109:A:N7	2.83	0.47
4:L:650:U:H2'	4:L:651:U:C5'	2.44	0.47
2:J:200:A:C2	2:J:201: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
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
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
2:J:247:A:N1	2:J:248:A:C5	2.83	0.47
1:I:353:A:N3	1:I:354:A:C1'	2.77	0.47
2:J:158:A:C5	2:J:159:A:N7	2.82	0.47
6:N:304:U:C2'	6:N:305:U:C6	2.81	0.47
6:N:305:U:C3'	6:N:306:U:H6	2.28	0.47
5:M:303:U:O2	5:M:304:U:C6	2.67	0.47
6:N:349:U:O2'	6:N:350:U:O5'	2.33	0.47
2:J:115:A:C2	2:J:116:A:N7	2.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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
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:63:A:C6	1:I:64:A:C5	3.03	0.47
1:I:92:A:C5	1:I:93:A:N7	2.83	0.47
1:I:82:A:C2	4:L:744:U:C2	3.03	0.47
4:L:750:U:O2	4:L:751:U:C4	2.67	0.47
4:L:804:U:C2'	4:L:805:U:C5'	2.92	0.47
1:I:138:A:C2	1:I:139:A:N9	2.83	0.47
1:I:138:A:C2'	1:I:139:A:O5'	2.63	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
4:L:665:U:H2'	4:L:666:U:O5'	2.15	0.47
4:L:722:U:HO2'	4:L:723:U:H6	1.62	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
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
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
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
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
3:K:6:A:N6	3:K:7:A:N6	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:260:A:H2'	2:J:261:A:C5'	2.45	0.47
5:M:301:U:C2	5:M:302:U:C5	3.02	0.47
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
2:J:226:A:N1	2:J:227:A:C5	2.83	0.46
1:I:321:A:N1	1:I:322:A:C5	2.83	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: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
6:N:462:U:C2	6:N:463:U:C6	3.03	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:3:A:C2	1:I:4:A:C5	3.03	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:8:A:C6	1:I:9:A:N7	2.83	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
3:K:253:A:C2'	3:K:254:A:C4'	2.87	0.46
1:I:178:A:C2	1:I:179:A:C5	3.03	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
1:I:240:A:HO2'	1:I:241:A:C5'	2.22	0.46
1:I:277:A:O5'	1:I:278:A:OP2	2.33	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
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
6:N:334:U:H2'	6:N:335:U:C6	2.50	0.46
6:N:293:U:C2	6:N:294:U:C5	3.03	0.46
2:J:124:A:N3	2:J:125:A:N9	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
5:M:407:U:O5'	5:M:408:U:OP2	2.33	0.46
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
5:M:334:U:O2	5:M:335:U:N1	2.48	0.46
4:L:506:U:H2'	4:L:507:U:O5'	2.15	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:84:A:H2'	3:K:85:A:H8	1.79	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: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
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
3:K:249:A:C2'	3:K:250:A:H5'	2.38	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
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
2:J:204:A:C2'	2:J:205:A:C5'	2.92	0.46
1:I:241:A:N1	1:I:242:A:C5	2.83	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
6:N:289:U:H3'	6:N:290:U:P	2.53	0.46
5:M:305:U:O2'	5:M:306:U:C5'	2.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:98:A:O2'	2:J:99:A:H5'	2.16	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
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
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
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
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
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
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
6:N:279:U:HO3'	6:N:280:U:P	2.30	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
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
2:J:200:A:N1	2:J:201:A:C5	2.83	0.46
5:M:344:U:C2	5:M:345:U:C5	3.03	0.46
1:I:257:A:N1	1:I:258:A:C5	2.84	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
6:N:487:U:H2'	6:N:488:U:H6	1.77	0.46
1:I:33:A:C2'	1:I:34:A:O5'	2.63	0.46
2:J:228:A:C6	2:J:229:A:N6	2.84	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:296:U:N3	6:N:297:U:O4	2.48	0.46
1:I:391:A:C6	1:I:392:A:N6	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:192:A:C3'	3:K:193:A:H8	2.29	0.46
2:J:111:A:O2'	2:J:112:A:C5'	2.51	0.46
2:J:22:A:C2	2:J:23:A:C8	3.04	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:98:A:N1	2:J:99:A:C5	2.83	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
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
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
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
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
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:77:A:H2'	1:I:78:A:H8	1.81	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
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
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
2:J:198:A:H2'	2:J:199:A:C5'	2.45	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
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
4:L:604:U:C2'	4:L:605:U:O5'	2.62	0.46
4:L:457:U:C2	4:L:458:U:C5	3.03	0.46
1:I:203:A:H2'	1:I:204:A:H8	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:297:U:C2'	6:N:298:U:H5'	2.46	0.46
5:M:303:U:C2	5:M:304:U:C5	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:46:A:C2	2:J:47:A:C8	3.03	0.46
2:J:5:A:C2	2:J:6:A:N7	2.84	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
5:M:339:U:C4	5:M:340:U:C5	3.04	0.46
4:L:525:U:H2'	4:L:526:U:O5'	2.15	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
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
6:N:412:U:C2	6:N:413:U:C5	3.03	0.46
6:N:438:U:HO2'	6:N:439:U:H5'	1.76	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
4:L:742:U:O2'	4:L:743:U:O5'	2.33	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
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
4:L:712:U:O5'	4:L:713:U:P	2.74	0.46
2:J:211:A:C4	2:J:212:A:C8	3.03	0.46
1:I:233:A:H2'	1:I:234:A:C4'	2.44	0.46
4:L:561:U:H2'	4:L:562:U:C5'	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:579:U:HO2'	4:L:580:U:H5'	1.77	0.46
4:L:459:U:H2'	4:L:460:U:C6	2.49	0.46
4:L:467:U:H2'	4:L:468:U:H6	1.80	0.46
2:J:266:A:N1	2:J:267:A:C5	2.84	0.46
4:L:419:U:N3	4:L:420:U:C4	2.84	0.46
6:N:295:U:H2'	6:N:296:U:C6	2.51	0.46
1:I:290:A:H2'	1:I:291:A:C8	2.50	0.46
4:L:448:U:H2'	4:L:449:U:C6	2.51	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
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:68:A:C6	2:J:69:A:N7	2.84	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
2:J:46:A:N6	5:M:508:U:O4	2.48	0.46
3:K:120:A:H2'	3:K:121:A:O4'	2.16	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
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
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
4:L:787:U:C2	4:L:788:U:C6	3.04	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
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
5:M:348:U:H2'	5:M:349:U:O4'	2.16	0.46
1:I:286:A:O5'	1:I:287:A:OP2	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:498:U:O2'	6:N:499:U:H5'	2.15	0.46
1:I:363:A:C4	1:I:364:A:C8	3.03	0.46
6:N:328:U:C2'	6:N:329:U:C6	2.85	0.46
6:N:527:U:C4	6:N:528:U:O4	2.69	0.46
5:M:299:U:C4	5:M:300:U:C4	3.03	0.46
5:M:300:U:HO2'	5:M:301:U:H5'	1.76	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:48:A:H2'	2:J:49:A:O4'	2.16	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
2:J:215:A:C2	2:J:216:A:N9	2.83	0.46
5:M:337:U:C2'	5:M:338:U:C4'	2.82	0.46
1:I:316:A:C6	1:I:317:A:C5	3.04	0.46
4:L:486:U:C4	4:L:487:U:C4	3.03	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
1:I:76:A:N6	1:I:77:A:N6	2.64	0.46
4:L:753:U:C2	4:L:754:U:C6	3.04	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
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
2:J:207:A:C6	2:J:208:A:N7	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
4:L:578:U:C2'	4:L:579:U:O5'	2.60	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
4:L:425:U:H2'	4:L:426:U:C6	2.50	0.46
6:N:340:U:H2'	6:N:341:U:H6	1.80	0.46
6:N:290:U:H2'	6:N:291:U:H6	1.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:230:A:C6	3:K:231:A:N6	2.84	0.46
2:J:101:A:C6	2:J:102:A:N7	2.84	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
5:M:473:U:H2'	5:M:474:U:H6	1.81	0.46
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:533:U:C2	5:M:534:U:C5	3.04	0.46
5:M:532:U:C2	5:M:533:U:C5	3.03	0.46
5:M:537:U:HO2'	5:M:538:U:H5'	1.79	0.46
2:J:220:A:C6	2:J:221:A:C5	3.04	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
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
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: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
4:L:638:U:C4	4:L:639:U:C5	3.03	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
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
1:I:361:A:C2'	1:I:362:A:O4'	2.63	0.46
6:N:305:U:O2'	6:N:306:U:O4'	2.31	0.46
2:J:254:A:C2	2:J:255:A:C8	3.04	0.46
2:J:116:A:N1	2:J:117:A:C6	2.84	0.46
2:J:12:A:N6	2:J:13:A:N6	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:419:U:O2	5:M:420:U:O4'	2.34	0.46
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
5:M:320:U:O2'	5:M:321:U:H5'	2.15	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
4:L:506:U:H2'	4:L:507:U:C5'	2.45	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:71:A:H2	3:K:72:A:C4	2.26	0.46
6:N:423:U:H2'	6:N:424:U:C5'	2.44	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
4:L:803:U:C4	4:L:804:U:C4	3.03	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
4:L:645:U:O4	4:L:646:U:O4	2.34	0.46
2:J:199:A:C4	2:J:200:A:C8	3.04	0.46
4:L:596:U:C4	4:L:597:U:C5	3.04	0.46
4:L:466:U:HO2'	4:L:467:U:C5'	2.09	0.46
2:J:249:A:C2	2:J:250:A:N9	2.84	0.46
3:K:212:A:H3'	3:K:213:A:H8	1.80	0.46
6:N:322:U:H2'	6:N:323:U:C6	2.51	0.46
6:N:322:U:HO3'	6:N:323:U:P	2.30	0.46
6:N:327:U:H2'	6:N:328:U:C5'	2.36	0.46
1:I:396:A:O2'	1:I:397:A:H5'	2.16	0.46
1:I:291:A:N3	1:I:292:A:C8	2.83	0.46
4:L:449:U:C2'	4:L:450:U:C5'	2.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:214:A:N1	2:J:215:A:C5	2.84	0.46
4:L:518:U:O2	4:L:519:U:O4'	2.34	0.46
3:K:129:A:C4	3:K:130:A:C8	3.04	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
1:I:20:A:C5	1:I:21:A:N7	2.85	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
4:L:727:U:O2'	4:L:728:U:O5'	2.33	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
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
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
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
1:I:357:A:C2	1:I:358:A:C8	3.04	0.46
1:I:31:A:N1	1:I:32:A:C5	2.84	0.46
2:J:253:A:N1	2:J:254:A:C5	2.83	0.46
2:J:27:A:C2	2:J:28:A:N9	2.84	0.45
2:J:5:A:N1	2:J:6:A:C6	2.84	0.45
2:J:60:A:C2	2:J:61:A:N7	2.84	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
5:M:332:U:N3	5:M:333:U:C4	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:96:A:C4	3:K:97:A:N7	2.83	0.45
6:N:368:U:C2'	6:N:369:U:O5'	2.65	0.45
6:N:400:U:HO2'	6:N:401:U:C5'	2.03	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: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
4:L:751:U:O2	4:L:752:U:N1	2.48	0.45
1:I:137:A:N6	1:I:138:A:H62	2.12	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
2:J:199:A:C2	2:J:200:A:C5	3.04	0.45
5:M:352:U:H2'	5:M:353:U:O5'	2.15	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
4:L:590:U:H2'	4:L:591:U:H6	1.80	0.45
1:I:358:A:C4	1:I:359:A:C8	3.00	0.45
1:I:31:A:N1	1:I:32:A:N6	2.64	0.45
4:L:427:U:H2'	4:L:428:U:H6	1.80	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
3:K:5:A:O2'	3:K:6:A:O4'	2.34	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
2:J:12:A:C2	2:J:13:A:C8	3.04	0.45
2:J:129:A:C5	2:J:130:A:N7	2.84	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
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
2:J:215:A:C4	2:J:216:A:C8	3.03	0.45
5:M:310:U:C3'	5:M:311:U:C5'	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:336:U:C6	5:M:337:U:C6	3.04	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
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
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
6:N:445:U:O2	6:N:446:U:C6	2.69	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
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
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:349:U:C2'	5:M:350:U:O4'	2.62	0.45
1:I:224:A:O2'	1:I:225:A:H5'	2.16	0.45
1:I:263:A:HO2'	1:I:264:A:H5'	1.77	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
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:468:U:C2	4:L:469:U:C5	3.04	0.45
2:J:229:A:C2	2:J:230:A:N9	2.84	0.45
6:N:321:U:N1	6:N:322:U:C5	2.84	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: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
5:M:379:U:C2'	5:M:380:U:O4'	2.65	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
1:I:327:A:C2	1:I:328:A:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:K:156:A:C4	3:K:157:A:C8	3.04	0.45
3:K:72:A:C6	3:K:73:A:C5	3.04	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
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
1:I:48:A:H2'	1:I:49:A:C8	2.51	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
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:193:A:HO2'	1:I:194:A:H5'	1.73	0.45
1:I:194:A:C6	1:I:195:A:C5	3.04	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
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
4:L:601:U:H2'	4:L:602:U:O4'	2.16	0.45
6:N:484:U:C3'	6:N:485:U:O5'	2.64	0.45
4:L:467:U:C2'	4:L:468:U:O5'	2.64	0.45
1:I:32:A:C2	1:I:33:A:C5	3.04	0.45
4:L:418:U:H2'	4:L:419:U:C6	2.52	0.45
6:N:337:U:O2'	6:N:338:U:H5'	2.17	0.45
1:I:297:A:C5	1:I:298:A:N7	2.85	0.45
5:M:299:U:C2'	5:M:300:U:O4'	2.60	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: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
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
5:M:513:U:H2'	5:M:514:U:O5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:516:U:N3	4:L:517:U:C4	2.84	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
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
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:77:A:C4	1:I:78:A:N7	2.84	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
6:N:277:U:H2'	6:N:278:U:H6	1.81	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
4:L:634:U:O2	4:L:635:U:C6	2.70	0.45
2:J:207:A:H2'	2:J:208:A:H8	1.82	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
4:L:545:U:O2	4:L:546:U:C6	2.69	0.45
4:L:562:U:HO2'	4:L:563:U:H5'	1.81	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
1:I:375:A:O2'	1:I:376:A:O5'	2.35	0.45
4:L:467:U:C2	4:L:468:U:C6	3.04	0.45
4:L:433:U:H2'	4:L:434:U:C6	2.52	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
6:N:316:U:C2'	6:N:317:U:C5'	2.94	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:142:A:C2'	2:J:143:A:H8	2.15	0.45
2:J:91:A:C2'	2:J:92:A:H5'	2.46	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
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
1:I:331:A:C5	1:I:332:A:N7	2.85	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
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
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
6:N:362:U:O2	6:N:363:U:C6	2.70	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
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
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
4:L:629:U:H2'	4:L:630:U:C5'	2.46	0.45
2:J:200:A:C2'	2:J:201:A:O5'	2.61	0.45
1:I:229:A:C2	1:I:230:A: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
6:N:494:U:H2'	6:N:495:U:C6	2.51	0.45
1:I:354:A:C4	1:I:355:A:C8	3.05	0.45
4:L:424:U:C6	4:L:425:U:H5	2.35	0.45
2:J:230:A:N3	2:J:231:A:C8	2.84	0.45
2:J:157:A:C2	2:J:158:A:C8	3.05	0.45
6:N:346:U:H3'	6:N:347:U:P	2.55	0.45
6:N:302:U:O2'	6:N:303:U:O4'	2.35	0.45
2:J:252:A:H2'	2:J:253:A:O5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:522:U:C2	6:N:523:U:C5	3.05	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:83:A:C2'	2:J:84:A:C8	2.87	0.45
5:M:451:U:C4	5:M:452:U:C5	3.05	0.45
1:I:317:A:C2	1:I:318: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
3:K:82:A:C2	3:K:83:A:C4	3.04	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:91:A:C2	1:I:92:A:C1'	2.99	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
3:K:249:A:C2	3:K:250:A:N9	2.84	0.45
1:I:158:A:N6	1:I:159:A:H62	2.13	0.45
4:L:631:U:C2	4:L:632:U:C6	3.05	0.45
4:L:681:U:C2	4:L:682:U:C5	3.05	0.45
5:M:355:U:C2	5:M:356:U:C6	3.05	0.45
1:I:261:A:C5	1:I:262:A:C5	3.04	0.45
4:L:553:U:H2'	4:L:554:U:C6	2.45	0.45
1:I:364:A:HO2'	1:I:365:A:C5'	2.22	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
2:J:156:A:H2'	2:J:157:A:C5'	2.45	0.45
6:N:294:U:H2'	6:N:295:U:O4'	2.16	0.45
3:K:38:A:C4	3:K:39:A:C8	3.05	0.45
2:J:111:A:HO2'	2:J:112:A:H5'	1.75	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:330:A:C2	1:I:331:A:C4	3.05	0.45
3:K:113:A:H2'	3:K:114:A:O4'	2.16	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
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
6:N:361:U:C2	6:N:362:U:C5	3.05	0.45
3:K:121:A:N1	6:N:411:U:O4	2.50	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
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
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
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
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
6:N:504:U:H2'	6:N:505:U:H6	1.81	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
6:N:344:U:C2	6:N:345:U:C5	3.05	0.45
1:I:296:A:H2'	1:I:297:A:C4'	2.46	0.45
5:M:305:U:N3	5:M:306:U:C5	2.85	0.45
6:N:350:U:N3	6:N:351:U:C4	2.84	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:67:A:C2	2:J:68:A:C5	3.04	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:69:A:H2'	3:K:70:A:H8	1.81	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
1:I:18:A:H2'	1:I:19:A:C5'	2.42	0.45
1:I:72:A:H2'	1:I:73:A:O4'	2.17	0.45
4:L:818:U:H2'	4:L:819:U:C6	2.52	0.45
3:K:256:A:C2'	3:K:257:A:O5'	2.64	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
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
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
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
4:L:572:U:H2'	4:L:573:U:C5'	2.46	0.45
6:N:500:U:H2'	6:N:501:U:H6	1.81	0.45
4:L:458:U:C2'	4:L:459:U:C5'	2.95	0.45
1:I:361:A:H2'	1:I:362:A:C8	2.51	0.45
2:J:230:A:O2'	2:J:231:A:O4'	2.32	0.45
2:J:234:A:C2	2:J:235:A:C5	3.04	0.45
1:I:387:A:C2	1:I:388:A:C4	3.04	0.45
6:N:348:U:C2	6:N:349:U:C5	3.04	0.45
2:J:107:A:N1	2:J:108:A:C5	2.85	0.45
2:J:11:A:H2'	2:J:12:A:O5'	2.13	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: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:8:A:N3	2:J:9:A:N9	2.64	0.45
2:J:214:A:C2	2:J:215:A:C1'	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:330:U:N3	5:M:331:U:C5	2.85	0.45
1:I:305:A:N1	1:I:306:A:C5	2.85	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
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
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
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
1:I:185:A:C2	1:I:186:A:C4	3.05	0.45
1:I:186:A:H2'	1:I:187:A:H8	1.82	0.45
4:L:699:U:C3'	4:L:700:U:C5'	2.83	0.45
4:L:698:U:HO2'	4:L:699:U:C4'	2.30	0.45
4:L:705:U:O2	4:L:706:U:O4'	2.35	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
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
6:N:529:U:H2'	6:N:530:U:H6	1.81	0.45
1:I:410:A:H2'	1:I:411:A:H8	1.82	0.45
1:I:369:A:O2'	1:I:370:A:H5'	2.16	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:95:A:C2	2:J:96:A:C8	3.05	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
5:M:331:U:HO2'	5:M:332:U:C5'	2.06	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
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
3:K:112:A:C4	3:K:113:A:N7	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
1:I:127:A:C4	1:I:128:A:C8	3.05	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
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
4:L:541:U:H2'	4:L:542:U:O5'	2.17	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
4:L:463:U:C2'	4:L:464:U:O4'	2.65	0.45
6:N:274:U:C2'	6:N:275:U:O5'	2.64	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
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
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:13:A:N6	5:M:541:U:O4	2.50	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: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
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
5:M:450:U:C4	5:M:451:U:C4	3.06	0.44
1:I:347:A:H2'	1:I:348:A:O5'	2.16	0.44
3:K:154:A:C6	3:K:155:A:N7	2.76	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
1:I:61:A:C2'	1:I:62:A:O4'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:L:819:U:H2'	4:L:820:U:C5	2.53	0.44
3:K:254:A:N6	3:K:255:A:N6	2.65	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
2:J:209:A:H2'	2:J:210:A:O4'	2.17	0.44
4:L:554:U:C2'	4:L:555:U:H6	2.29	0.44
4:L:606:U:HO2'	4:L:607:U:H5'	1.82	0.44
6:N:484:U:H3'	6:N:485:U:P	2.56	0.44
2:J:249:A:N3	2:J:250:A:C8	2.85	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
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: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
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
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
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
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
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
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
1:I:136:A:N3	1:I:137:A:O4'	2.50	0.44
4:L:711:U:C5	4:L:712:U:H5	2.35	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)
1:I:365:A:H2'	1:I:366:A:C8	2.47	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
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
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
2:J:88:A:N3	2:J:89:A:N9	2.59	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
5:M:317:U:C2	5:M:318:U:C6	3.06	0.44
1:I:336:A:C2	1:I:337:A:C4	3.05	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
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
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: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
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
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
4:L:655:U:C2'	4:L:656:U:O5'	2.65	0.44
1:I:164:A:C2	4:L:662:U:C2	3.05	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
2:J:199:A:H2'	2:J:200:A:H8	1.82	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
1:I:373:A:C6	1:I:374:A:C6	3.06	0.44
4:L:468:U:N3	4:L:469:U:C5	2.85	0.44
1:I:358:A:C2'	1:I:359:A:O5'	2.58	0.44
1:I:295:A:C2'	1:I:296:A:O5'	2.66	0.44
4:L:451:U:O4	4:L:452:U:O4	2.35	0.44
3:K:40:A:C6	3:K:41:A:N6	2.86	0.44
5:M:291:U:H2'	5:M:292:U:H6	1.82	0.44
2:J:127:A:C2	2:J:128:A:C1'	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:178:A:C6	2:J:179:A:N7	2.85	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
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
5:M:535:U:HO2'	5:M:536:U:H5'	1.73	0.44
2:J:222:A:C2	2:J:223:A:C1'	3.00	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
4:L:529:U:O2	4:L:530:U:C6	2.71	0.44
3:K:131:A:H2'	3:K:132:A:H8	1.82	0.44
1:I:16:A:N6	1:I:17:A:C6	2.84	0.44
1:I:22:A:HO2'	1:I:23:A:C4'	2.29	0.44
1:I:64:A:C4	1:I:65:A:N7	2.85	0.44
1:I:90:A:H2'	1:I:91:A:C5'	2.43	0.44
1:I:89:A:C2	4:L:737:U:C2	3.05	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
1:I:174:A:C2	1:I:175:A:C5	3.05	0.44
4:L:725:U:H2'	4:L:726:U:H6	1.83	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
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
2:J:237:A:O2'	2:J:238:A:C5'	2.66	0.44
2:J:166:A:N1	2:J:167:A:C6	2.86	0.44
1:I:292:A:C2'	1:I:293:A:C5'	2.95	0.44
5:M:295:U:N3	5:M:296:U:C5	2.86	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:16:A:N3	2:J:17:A:C8	2.86	0.44
2:J:189:A:H2'	2:J:190:A:H8	1.83	0.44
2:J:87:A:H2'	2:J:88:A:H8	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
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
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
3:K:256:A:H2'	3:K:257:A:O5'	2.17	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
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
4:L:593:U:C4	4:L:594:U:C4	3.05	0.44
1:I:394:A:H2'	1:I:395:A:H8	1.80	0.44
4:L:449:U:H2'	4:L:450:U:C6	2.48	0.44
5:M:298:U:H2'	5:M:299:U:C6	2.44	0.44
6:N:350:U:O4	6:N:351:U:O4	2.35	0.44
2:J:112:A:HO2'	2:J:113:A:H5'	1.80	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: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
2:J:68:A:H2'	2:J:69:A:H8	1.82	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
1:I:327:A:N1	1:I:328:A:C5	2.85	0.44
1:I:341:A:H2'	1:I:342:A:O4'	2.18	0.44
1:I:340:A:O2'	1:I:341:A:O5'	2.36	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:162:A:C2	3:K:163:A:C4	3.05	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
6:N:395:U:C2'	6:N:396:U:C5'	2.95	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
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
3:K:255:A:O2'	3:K:256:A:H5'	2.18	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
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
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
4:L:614:U:C2'	4:L:615:U:H5'	2.47	0.44
6:N:483:U:N1	6:N:484:U:C5	2.85	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:210:A:C2	3:K:211:A:C4	3.05	0.44
1:I:292:A:C2	1:I:293:A:C5	3.06	0.44
6:N:523:U:C2	6:N:524:U:C5	3.05	0.44
1:I:409:A:H2'	1:I:410:A:C8	2.52	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:132:A:HO2'	2:J:133:A:C4'	2.30	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
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
2:J:218:A:C2	2:J:219:A:N7	2.86	0.44
1:I:328:A:C4	1:I:329:A:N7	2.86	0.44
4:L:513:U:H2'	4:L:514:U:O5'	2.17	0.44
3:K:132:A:HO2'	3:K:133:A:C5'	2.14	0.44
3:K:140:A:C5	3:K:141:A:N7	2.85	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
6:N:406:U:N1	6:N:407:U:C6	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:461:U:N3	6:N:462:U:C4	2.86	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
4:L:792:U:C2	4:L:793:U:C6	3.05	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:198:A:H2'	1:I:199:A:H8	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
5:M:355:U:H2'	5:M:356:U:C6	2.48	0.44
1:I:212:A:N1	1:I:213:A:C5	2.85	0.44
1:I:221:A:HO2'	1:I:222:A:H5'	1.78	0.44
1:I:242:A:N1	1:I:243:A:C5	2.86	0.44
1:I:242:A:N3	1:I:243:A:H1'	2.30	0.44
1:I:263:A:C2	1:I:264:A:N9	2.85	0.44
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
4:L:615:U:H2'	4:L:616:U:H6	1.83	0.44
2:J:245:A:H2'	2:J:246:A:C5'	2.47	0.44
1:I:203:A:C2'	1:I:204:A:H5'	2.47	0.44
4:L:439:U:C2'	4:L:440:U:H5'	2.46	0.44
2:J:238:A:O2'	2:J:239:A:H5'	2.18	0.44
6:N:313:U:O4	6:N:314:U:O4	2.35	0.44
1:I:388:A:HO2'	1:I:389:A:C4'	2.25	0.44
3:K:17:A:H2'	3:K:18:A:H8	1.83	0.44
4:L:444:U:H2'	4:L:445:U:H6	1.83	0.44
6:N:516:U:HO3'	6:N:517:U:P	2.32	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
2:J:113:A:C2	2:J:114:A:C8	3.06	0.44
2:J:29:A:HO2'	2:J:30:A:C5'	1.99	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
2:J:225:A:C6	2:J:226:A:C5	3.05	0.44
5:M:325:U:C2	5:M:326:U:C5	3.06	0.44
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:498:U:H2'	4:L:499:U:C6	2.51	0.44
3:K:111:A:C4	3:K:112:A:C8	3.06	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
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
4:L:812:U:H2'	4:L:813:U:C4'	2.47	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
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
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: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
2:J:198:A:H2'	2:J:199:A:O4'	2.18	0.44
5:M:349:U:N3	5:M:350:U:C4	2.86	0.44
1:I:231:A:H2'	1:I:232:A:C8	2.53	0.44
4:L:575:U:O2	4:L:576:U:N1	2.50	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
4:L:422:U:O2'	4:L:423:U:O4'	2.35	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:158:A:C4	2:J:159:A:N7	2.86	0.44
3:K:206:A:O2'	3:K:207:A:C5'	2.63	0.44
6:N:328:U:C2'	6:N:329:U:H6	2.14	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:258:A:O2'	2:J:259:A:H5'	2.18	0.44
2:J:121:A:HO2'	2:J:122:A:H5'	1.76	0.44
2:J:191:A:N1	2:J:192:A:C5	2.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:323:A:C2'	1:I:324:A:C4'	2.86	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: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
6:N:388:U:H2'	6:N:389:U:C5	2.46	0.44
3:K:132:A:N6	6:N:400:U:O4	2.50	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
4:L:797:U:O2'	4:L:798:U:C5'	2.51	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
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
4:L:541:U:O2	4:L:542:U:C6	2.71	0.44
1:I:272:A:C2	4:L:554:U:C2	3.06	0.44
4:L:580:U:N3	4:L:581:U:C5	2.85	0.44
6:N:489:U:C2'	6:N:490:U:O5'	2.64	0.44
1:I:354:A:C2'	1:I:355:A:H5'	2.48	0.44
2:J:236:A:N6	2:J:237:A:N6	2.66	0.44
1:I:299:A:H2'	1:I:300:A:O4'	2.17	0.44
2:J:144:A:C2	2:J:145:A:C1'	3.01	0.43
2:J:42:A:H2'	2:J:43:A:C1'	2.46	0.43
2:J:91:A:HO2'	2:J:92:A:H5'	1.81	0.43
5:M:511:U:C5	5:M:512:U:C5	3.06	0.43
1:I:330:A:C4	1:I:331:A:C8	3.06	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:450:U:N3	6:N:451:U:C4	2.86	0.43
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
4:L:693:U:N1	4:L:694:U:H5	2.14	0.43
1:I:223:A:C4	1:I:224:A:N7	2.85	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:458:U:C2	4:L:459:U:C6	3.06	0.43
6:N:327:U:C4	6:N:328:U:C4	3.06	0.43
6:N:295:U:H2'	6:N:296:U:H6	1.83	0.43
3:K:43:A:C5	3:K:44:A:N7	2.86	0.43
2:J:259:A:C2'	2:J:260:A:H5'	2.48	0.43
3:K:192:A:N6	3:K:193:A:H62	2.12	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:12:A:N3	2:J:13:A:C8	2.86	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: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
5:M:391:U:C2'	5:M:392:U:C5'	2.95	0.43
2:J:218:A:H2'	2:J:219:A:C5'	2.48	0.43
1:I:337:A:H2'	1:I:338:A:H8	1.83	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
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
3:K:62:A:N1	3:K:63:A:C5	2.86	0.43
3:K:64:A:HO2'	3:K:65:A:C4'	2.30	0.43
3:K:87:A:C2	3:K:88:A:N7	2.86	0.43
6:N:473:U:C2'	6:N:474:U:C5'	2.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:J:202:A:N6	5:M:352:U:O4	2.51	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
4:L:541:U:C4	4:L:542:U:C4	3.05	0.43
2:J:262:A:C2'	2:J:263:A:H5'	2.46	0.43
1:I:202:A:HO2'	1:I:203:A:C5'	1.95	0.43
2:J:233:A:H2'	2:J:234:A:H8	1.83	0.43
1:I:393:A:C2'	1:I:394:A:C5'	2.97	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: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
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
2:J:224:A:C5	2:J:225:A:C8	3.06	0.43
1:I:329:A:C6	1:I:330:A:N7	2.86	0.43
4:L:491:U:O2	4:L:492:U:C1'	2.66	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:64:A:H2'	3:K:65:A:C8	2.52	0.43
6:N:430:U:N3	6:N:431:U:C4	2.85	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
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
4:L:806:U:H2'	4:L:807:U:C5'	2.46	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
1:I:254:A:C2'	1:I:255:A:O5'	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:259:A:C2	1:I:260:A:C5	3.06	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
6:N:483:U:H2'	6:N:484:U:C6	2.53	0.43
1:I:356:A:N6	1:I:357:A:H62	2.16	0.43
6:N:317:U:O2'	6:N:318:U:O4'	2.36	0.43
2:J:258:A:C5	2:J:259:A:N7	2.86	0.43
3:K:184:A:HO3'	3:K:185:A:P	2.29	0.43
5:M:287:U:O2	5:M:288:U:O4'	2.35	0.43
2:J:126:A:N1	2:J:127:A:C5	2.87	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
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
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
5:M:317:U:H2'	5:M:318:U:O5'	2.17	0.43
2:J:226:A:N1	5:M:328:U:C4	2.86	0.43
5:M:329:U:O2	5:M:330:U:C6	2.71	0.43
1:I:348:A:C2	1:I:349:A:C8	3.07	0.43
4:L:529:U:H2'	4:L:530:U:H6	1.82	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:162:A:HO2'	3:K:163:A:H5'	1.72	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
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: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
4:L:754:U:H2'	4:L:755:U:C4'	2.48	0.43
1:I:200:A:C2'	1:I:201:A:H5'	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:688:U:H2'	4:L:689:U:C5'	2.37	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
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
1:I:375:A:N3	1:I:376:A:N7	2.65	0.43
1:I:202:A:C4	1:I:203:A:C8	3.06	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
3:K:212:A:C5'	3:K:213:A:OP2	2.66	0.43
6:N:291:U:HO2'	6:N:292:U:H5'	1.81	0.43
1:I:399:A:O2'	1:I:400:A:H5'	2.19	0.43
4:L:450:U:C2'	4:L:451:U:C5'	2.96	0.43
2:J:252:A:C4	2:J:253:A:C8	3.06	0.43
2:J:128:A:N3	2:J:129:A:C8	2.86	0.43
2:J:44:A:C2	2:J:45:A:N9	2.87	0.43
2:J:8:A:N3	2:J:9:A:C8	2.87	0.43
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:313:A:C6	1:I:314:A:C5	3.07	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
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
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:8:A:C6	1:I:9:A:C5	3.06	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
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
4:L:724:U:O2'	4:L:725:U:C4'	2.66	0.43
1:I:247:A:H2'	1:I:248:A:C8	2.52	0.43
4:L:589:U:N3	4:L:590:U:C4	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:589:U:H2'	4:L:590:U:C5'	2.49	0.43
2:J:263:A:C6	2:J:264: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
3:K:46:A:C2	3:K:47:A:C4	3.06	0.43
3:K:230:A:H2'	3:K:231:A:C8	2.53	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
5:M:316:U:O2'	5:M:317:U:H5'	2.18	0.43
1:I:326:A:H2'	1:I:327:A:H8	1.84	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
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:88:A:C4	1:I:89:A:C8	3.05	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
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
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
4:L:593:U:C4	4:L:594:U:O4	2.71	0.43
6:N:274:U:H2'	6:N:275:U:O5'	2.18	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:191:A:C2'	3:K:192:A:O4'	2.67	0.43
5:M:296:U:N3	5:M:297:U:C5	2.87	0.43
1:I:1:A:C6	1:I:2:A:N6	2.87	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: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

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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:96:A:C6	2:J:97:A:C5	3.06	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
2:J:184:A:C2	5:M:370:U:C2	3.07	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
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
4:L:486:U:O4	4:L:487:U:O4	2.36	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
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
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
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
1:I:4:A:C2	1:I:5:A:N7	2.78	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
6:N:282:U:O2'	6:N:283:U:H5'	2.18	0.43
1:I:115:A:H2'	1:I:116:A:H8	1.83	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:486:U:C2	6:N:487:U:C6	3.07	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
3:K:46:A:H2'	3:K:47:A:C8	2.54	0.43
2:J:252:A:N3	2:J:253:A:C8	2.86	0.43
5:M:290:U:C2'	5:M:291:U:O5'	2.66	0.43
6:N:350:U:N3	6:N:351:U:C5	2.87	0.43
2:J:15:A:C2	2:J:16:A:N7	2.87	0.43
2:J:187:A:C4	2:J:188:A:C8	3.06	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
5:M:387:U:N1	5:M:388:U:C5	2.82	0.43
2:J:118:A:C2	5:M:436:U:O2	2.72	0.43
5:M:515:U:N3	5:M:516:U:C5	2.86	0.43
5:M:319:U:O2	5:M:320:U:C1'	2.67	0.43
1:I:340:A:N1	1:I:341:A:C5	2.85	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
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
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
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:78:A:HO2'	1:I:79:A:H5'	1.75	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
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
4:L:626:U:N3	4:L:627:U:C4	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:255:A:N3	1:I:256:A:C8	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
1:I:364:A:C4	1:I:365:A:C8	3.07	0.43
1:I:33:A:H2'	1:I:34:A:O5'	2.19	0.43
1:I:203:A:N3	1:I:204:A:C8	2.87	0.43
2:J:161:A:HO2'	2:J:162:A:C5'	2.02	0.43
1:I:398:A:H2'	1:I:399:A:H8	1.83	0.43
3:K:8:A:N6	3:K:9:A:N6	2.66	0.43
6:N:526:U:O2'	6:N:527:U:O4'	2.36	0.43
5:M:297:U:C2	5:M:298:U:C5	3.07	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: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
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
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
3:K:158:A:C2'	3:K:159:A:C5'	2.97	0.43
3:K:91:A:O2'	3:K:92:A:H5'	2.19	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
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
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
1:I:57:A:C2	4:L:769:U:C2	3.07	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
3:K:250:A:C4	3:K:251:A:C8	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
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
2:J:203:A:C2'	2:J:204:A:C5'	2.97	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
6:N:499:U:N3	6:N:500:U:C5	2.87	0.43
1:I:358:A:HO2'	1:I:359:A:H5'	1.80	0.43
2:J:234:A:H2'	2:J:235:A:H8	1.83	0.43
3:K:212:A:C6	3:K:213:A:C5	3.05	0.43
6:N:335:U:N3	6:N:336:U:C5	2.87	0.43
5:M:296:U:H2'	5:M:297:U:H6	1.84	0.43
1:I:409:A:H2'	1:I:410:A:H8	1.83	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:17:A:HO2'	2:J:18:A:H5'	1.72	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:7:A:N6	2:J:8:A:N6	2.66	0.43
2:J:96:A:C2	2:J:97:A:C4	3.06	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
1:I:321:A:C2	1:I:322:A:C4	3.07	0.43
4:L:505:U:N3	4:L:506:U:C4	2.86	0.43
3:K:108:A:H2'	3:K:109:A:C8	2.53	0.43
3:K:68:A:H2'	3:K:69:A:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:37:A:C2	1:I:38:A:C4	3.07	0.43
4:L:734:U:H2'	4:L:735:U:C5'	2.46	0.43
1:I:63:A:C2	4:L:763:U:C2	3.07	0.43
6:N:283:U:H2'	6:N:284:U:H6	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
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
2:J:198:A:H2'	2:J:199:A:O5'	2.18	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
1:I:226:A:HO2'	1:I:227:A:H5'	1.79	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
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
6:N:493:U:O2'	6:N:494:U:H5'	2.19	0.43
4:L:413:U:O2'	4:L:414:U:H5'	2.18	0.43
2:J:160:A:H2'	2:J:161:A:O5'	2.19	0.43
1:I:300:A:N1	1:I:301:A:C5	2.87	0.43
6:N:297:U:H2'	6:N:298:U:H6	1.84	0.43
3:K:31:A:C6	3:K:32:A:C5	3.07	0.43
4:L:442:U:C2	4:L:443:U:C5	3.06	0.43
3:K:47:A:C6	3:K:48:A:C5	3.01	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:191:A:C2	3:K:192:A:C4	3.06	0.43
5:M:290:U:C2'	5:M:291:U:O4'	2.65	0.43
3:K:188:A:H2'	3:K:189:A:C8	2.52	0.43
2:J:101:A:N1	2:J:102:A:C5	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:5:A:C5	2:J:6:A:N7	2.87	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
5:M:317:U:O2	5:M:318:U:C6	2.72	0.42
1:I:319:A:C6	1:I:320:A:N7	2.87	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
3:K:129:A:N3	3:K:130:A:C8	2.87	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
1:I:13:A:N3	1:I:14:A:N9	2.67	0.42
1:I:72:A:N3	1:I:73:A:C8	2.87	0.42
1:I:45:A:C2	4:L:781:U:C2	3.06	0.42
4:L:814:U:O2'	4:L:815:U:C4'	2.67	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
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:580:U:C2'	4:L:581:U:C5'	2.97	0.42
4:L:462:U:O4	4:L:463:U:O4	2.35	0.42
2:J:267:A:C2	2:J:268:A:C8	3.06	0.42
1:I:300:A:H2'	1:I:301:A:O5'	2.19	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
5:M:296:U:H2'	5:M:297:U:C4'	2.49	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:37:A:C2	2:J:38:A:C5	3.07	0.42
2:J:37:A:HO2'	2:J:38:A:C5'	2.05	0.42
2:J:65:A:C6	2:J:66:A:N7	2.87	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
1:I:316:A:H2'	1:I:317:A:H8	1.84	0.42
4:L:501:U:H2'	4:L:502:U:H6	1.83	0.42
3:K:135:A:N1	3:K:136:A:C6	2.88	0.42
3:K:173:A:N3	3:K:174:A:C8	2.87	0.42
6:N:390:U:N3	6:N:391:U:C5	2.87	0.42
3:K:137:A:C2	6:N:395:U:C2	3.06	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
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
3:K:248:A:C2	3:K:249:A:C5	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
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
2:J:211:A:C2	2:J:212:A:N9	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
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
6:N:484:U:H2'	6:N:485:U:C5'	2.34	0.42
4:L:466:U:O2	4:L:467:U:C6	2.72	0.42
2:J:246:A:N3	2:J:247:A:C8	2.88	0.42
1:I:357:A:H2'	1:I:358:A:O5'	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:436:U:C2'	4:L:437:U:C6	2.77	0.42
2:J:163:A:H2'	2:J:164:A:C8	2.53	0.42
3:K:208:A:N6	3:K:209:A:H62	2.17	0.42
6:N:290:U:H2'	6:N:291:U:C6	2.54	0.42
1:I:401:A:N6	1:I:402:A:H62	2.14	0.42
3:K:45:A:C3'	3:K:46:A:C5'	2.87	0.42
3:K:192:A:N1	3:K:193:A:C6	2.86	0.42
5:M:297:U:HO2'	5:M:298:U:H5'	1.81	0.42
2:J:185:A:N1	2:J:186:A:C5	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
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
2:J:215:A:C2'	2:J:216:A:O5'	2.56	0.42
5:M:315:U:H2'	5:M:316:U:O5'	2.18	0.42
4:L:483:U:O2	4:L:484:U:C6	2.73	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
6:N:406:U:C4	6:N:407:U:O4	2.71	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:13:A:C5	1:I:14:A:C5	3.04	0.42
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
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
1:I:260:A:C5	1:I:261:A:N7	2.87	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
2:J:57:A:C2	5:M:497:U:C2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:M:318:U:C2'	5:M:319:U:C4'	2.96	0.42
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
1:I:341:A:HO2'	1:I:342:A:H5'	1.70	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:82:A:C2'	3:K:83:A:O5'	2.67	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: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:8:A:C6	1:I:9:A:C6	3.08	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
3:K:251:A:HO3'	3:K:252:A:P	2.32	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
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
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
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
6:N:316:U:C2	6:N:317:U:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:13:A:H2'	3:K:14:A:C8	2.55	0.42
3:K:239:A:C2'	3:K:240:A:H5'	2.47	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
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: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
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
5:M:336:U:C2	5:M:337:U:C5	2.96	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
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
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: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
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
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
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
1:I:120:A:C2	1:I:121:A:N7	2.87	0.42
1:I:143:A:HO2'	1:I:144:A:P	2.43	0.42
1:I:143:A:O2'	1:I:144:A:P	2.77	0.42
1:I:164:A:C2'	1:I:165:A:C8	2.90	0.42
4:L:634:U:C2'	4:L:635:U:O4'	2.66	0.42
2:J:198:A:HO2'	2:J:199:A:H5'	1.77	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
1:I:218:A:H2'	1:I:219:A:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:223:A:C5	1:I:224:A:N7	2.87	0.42
4:L:573:U:C4	4:L:574:U:C4	3.08	0.42
6:N:482:U:H2'	6:N:483:U:C6	2.52	0.42
6:N:482:U:N3	6:N:483:U:C4	2.87	0.42
4:L:461:U:O2'	4:L:462:U:H5'	2.20	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
2:J:160:A:C2	2:J:161:A:N9	2.87	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
3:K:177:A:O2'	3:K:178:A:H5'	2.19	0.42
5:M:286:U:C2	5:M:287:U:C6	3.07	0.42
2:J:186:A:C2'	2:J:187:A:C5'	2.97	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
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
4:L:472:U:C2	4:L:473:U:H5	2.27	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:172:A:N3	3:K:173:A:C8	2.88	0.42
3:K:171:A:C2	3:K:172:A:N7	2.87	0.42
3:K:64:A:C2'	3:K:65:A:O5'	2.68	0.42
6:N:477:U:H2'	6:N:478:U:O5'	2.20	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
4:L:739:U:N3	4:L:740:U:C5	2.88	0.42
3:K:256:A:H2'	3:K:257:A:H8	1.85	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
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)
1:I:253:A:C4	1:I:254:A:C8	3.08	0.42
1:I:275:A:O2'	1:I:276:A:C5'	2.64	0.42
1:I:269:A:C2	4:L:557:U:N3	2.88	0.42
6:N:501:U:C2'	6:N:502:U:O4'	2.66	0.42
1:I:376:A:C6	1:I:377:A:N7	2.88	0.42
4:L:435:U:C2	4:L:436:U:C6	3.07	0.42
2:J:233:A:C2'	2:J:234:A:O5'	2.68	0.42
1:I:299:A:C2	1:I:300:A:C5	3.06	0.42
1:I:392:A:O2'	1:I:393:A:H5'	2.19	0.42
3:K:27:A:N6	3:K:28:A:N6	2.67	0.42
4:L:443:U:H2'	4:L:444:U:C6	2.52	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
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
2:J:102:A:C2	2:J:103:A:C5	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: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
5:M:402:U:H2'	5:M:403:U:O5'	2.19	0.42
5:M:330:U:O2'	5:M:331:U:P	2.70	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
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: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
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: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
4:L:768:U:C2	4:L:769:U:C5	3.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:351:U:N3	5:M:352:U:C4	2.87	0.42
1:I:257:A:C2	1:I:258:A:C5	3.07	0.42
1:I:275:A:HO2'	1:I:276:A:H5'	1.84	0.42
1:I:283:A:N1	1:I:284:A:N6	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
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
2:J:158:A:C4	2:J:159:A:C8	3.08	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
2:J:252:A:C2	2:J:253:A:C8	3.07	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
2:J:21:A:C2'	2:J:22:A:O5'	2.68	0.42
2:J:5:A:C2	2:J:6:A:C8	3.07	0.42
2:J:89:A:O2'	2:J:90:A:C5'	2.67	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
5:M:323:U:C2'	5:M:324:U:O5'	2.27	0.42
1:I:316:A:C4	1:I:317:A:C8	3.08	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
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:85:A:C4	3:K:86:A:C8	3.08	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:59:A:N1	1:I:60:A:C5	2.87	0.42
1:I:6:A:N3	1:I:7:A:C8	2.88	0.42
1:I:83:A:C6	1:I:84:A:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:96:A:N3	1:I:97:A:C8	2.88	0.42
1:I:9:A:N1	1:I:10:A:C5	2.87	0.42
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
3:K:253:A:N1	3:K:254:A:C5	2.87	0.42
1:I:152:A:C6	1:I:153:A:C5	3.08	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
5:M:343:U:H2'	5:M:344:U:C6	2.54	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
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
1:I:395:A:H2'	1:I:396:A:H8	1.84	0.42
3:K:14:A:H3'	3:K:15:A:P	2.59	0.42
4:L:451:U:N3	4:L:452:U:O4	2.52	0.42
3:K:47:A:N1	3:K:48:A:C6	2.86	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: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: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
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
2:J:222:A:C5	2:J:223:A:N7	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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:N:408:U:N3	6:N:409:U:C5	2.88	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
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
3:K:257:A:O2'	3:K:258:A:H5'	2.20	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
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
2:J:201:A:C6	2:J:202:A:C6	3.08	0.42
5:M:348:U:C5	5:M:349:U:C5	3.07	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
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
6:N:274:U:C2	6:N:275:U:C6	3.08	0.42
4:L:417:U:C2'	4:L:418:U:H5'	2.48	0.42
2:J:156:A:N3	2:J:157:A:C8	2.87	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
3:K:39:A:O2'	3:K:40:A:H5'	2.20	0.42
2:J:253:A:C2'	2:J:254:A:H5'	2.50	0.42
6:N:521:U:H2'	6:N:522:U:C6	2.54	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: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:16:A:C2'	2:J:17:A:C5'	2.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:M:315:U:N3	5:M:316:U:C5	2.88	0.42
1:I:320:A:C4	1:I:321:A:C8	3.07	0.42
4:L:480:U:C2	4:L:481:U:C5	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
3:K:175:A:N6	3:K:176:A:N6	2.68	0.42
3:K:85:A:C2	3:K:86:A:C4	3.08	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: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
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
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
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
2:J:201:A:H61	2:J:202:A:N6	2.13	0.42
1:I:211:A:HO2'	1:I:212:A:H5'	1.79	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
1:I:357:A:N3	1:I:358:A:C8	2.88	0.42
2:J:159:A:C2	2:J:160:A:C5	3.08	0.42
3:K:208:A:H2'	3:K:209:A:C8	2.54	0.42
2:J:8:A:O2'	2:J:9:A:O4'	2.38	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
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
1:I:308:A:C2	1:I:309:A:C5	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:165:A:C2	3:K:166:A:C8	3.08	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
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:27:A:C4	1:I:28:A:C8	3.08	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
4:L:756:U:HO2'	4:L:757:U:H5'	1.81	0.41
4:L:794:U:H2'	4:L:795:U:H6	1.83	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
4:L:546:U:C2'	4:L:547:U:C6	2.80	0.41
1:I:372:A:O2'	1:I:373:A:C5'	2.34	0.41
1:I:32:A:N3	1:I:33:A:C8	2.88	0.41
2:J:156:A:C4	2:J:157:A:C8	3.08	0.41
6:N:310:U:C2'	6:N:311:U:H5'	2.49	0.41
3:K:6:A:H2'	3:K:7:A:O4'	2.20	0.41
3:K:240:A:O2'	3:K:241:A:H5'	2.19	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
5:M:277:U:H2'	5:M:278:U:H6	1.85	0.41
2:J:185:A:N6	2:J:186:A:N6	2.68	0.41
2:J:50:A:C2'	2:J:51:A:H5'	2.46	0.41
2:J:5:A:C6	2:J:6:A:C5	3.08	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
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
2:J:220:A:C4	2:J:221:A:N7	2.88	0.41
5:M:331:U:O2	5:M:332:U:C6	2.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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
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
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
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:713:U:HO2'	4:L:714:U:C4'	2.32	0.41
4:L:714:U:H2'	4:L:715:U:O4'	2.19	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: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
4:L:413:U:C2	4:L:414:U:C5	3.08	0.41
6:N:296:U:C4	6:N:297:U:C4	3.05	0.41
3:K:28:A:H2'	3:K:29:A:H8	1.84	0.41
6:N:526:U:HO2'	6:N:527:U:C4'	2.33	0.41
3:K:186:A:O2'	3:K:187:A:H5'	2.20	0.41
2:J:135:A:N1	2:J:136:A:C6	2.89	0.41
2:J:70:A:O2'	2:J:71:A:C4'	2.62	0.41
5:M:379:U:O2'	5:M:380:U:O4'	2.37	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
1:I:325:A:H2'	1:I:326:A:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:342:A:N3	1:I:343:A:C8	2.88	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
3:K:136:A:C2	3:K:137:A:C1'	3.03	0.41
3:K:144:A:H2'	3:K:145:A:O4'	2.20	0.41
3:K:71:A:C2'	3:K:72:A:O5'	2.69	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
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:9:A:C2	1:I:10:A:N9	2.89	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
1:I:172:A:C2	1:I:173:A:C5	3.08	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
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
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
2:J:247:A:H2'	2:J:248:A:C8	2.48	0.41
2:J:230:A:C2	2:J:231:A:C5	3.08	0.41
1:I:399:A:H2'	1:I:400:A:C8	2.55	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
3:K:230:A:H2'	3:K:231:A:H8	1.85	0.41
2:J:193:A:C6	2:J:194:A:N7	2.89	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:8:A:H2'	2:J:9:A:C8	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:340:A:C4	1:I:341:A:N7	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
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
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
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: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:7:A:O2'	1:I:8:A:H5'	2.20	0.41
1:I:93:A:H2'	1:I:94:A:H8	1.85	0.41
4:L:765:U:O2'	4:L:766:U:C4'	2.68	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
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
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
2:J:204:A:N3	2:J:205:A:C8	2.87	0.41
1:I:227:A:C2	1:I:228:A:N9	2.88	0.41
1:I:226:A:C2'	1:I:227:A:C5'	2.98	0.41
1:I:249:A:N1	1:I:250:A:C4	2.87	0.41
4:L:544:U:C6	4:L:545:U:C5	3.09	0.41
6:N:312:U:C2	6:N:313:U:C5	3.09	0.41
1:I:292:A:N1	1:I:293:A:C5	2.88	0.41
5:M:304:U:C2	5:M:305:U:H5	2.31	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
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:15:A:N1	2:J:16:A:C5	2.89	0.41
2:J:174:A:C4	2:J:175:A:N7	2.89	0.41
2:J:18:A:C2	2:J:19:A:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:336:A:H2'	1:I:337:A:O4'	2.19	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
3:K:166:A:C2	3:K:167:A:C1'	3.03	0.41
3:K:56:A:C2'	3:K:57:A:C5'	2.99	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
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
4:L:757:U:O2	4:L:758:U:C6	2.72	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
4:L:631:U:H2'	4:L:632:U:O5'	2.21	0.41
2:J:207:A:C4	2:J:208:A:N7	2.88	0.41
5:M:344:U:N3	5:M:345:U:C5	2.89	0.41
1:I:226:A:C5	1:I:227:A:N7	2.88	0.41
1:I:234:A:N1	1:I:235:A:C5	2.88	0.41
1:I:233:A:C5	1:I:234:A:N7	2.89	0.41
1:I:286:A:C2'	1:I:287:A:H8	2.33	0.41
6:N:487:U:C6	6:N:488:U:H5	2.38	0.41
2:J:236:A:N6	2:J:237:A:H62	2.17	0.41
3:K:212:A:C5	3:K:213:A:N6	2.86	0.41
3:K:6:A:C2'	3:K:7:A:H5'	2.50	0.41
6:N:526:U:H2'	6:N:527:U:C5'	2.48	0.41
5:M:296:U:H2'	5:M:297:U:O5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:170:A:C2	1:I:171:A:C8	3.08	0.41
2:J:104:A:C2	2:J:105:A:N9	2.89	0.41
2:J:10:A:H2'	2:J:11:A:H8	1.86	0.41
2:J:187:A:N6	5:M:367:U:O4	2.54	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
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
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
1:I:350:A:N6	4:L:476:U:O4	2.54	0.41
3:K:150:A:C2	3:K:151:A:C4	3.09	0.41
3:K:96:A:H2'	3:K:97:A:C4'	2.45	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
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:5:A:H2'	1:I:6:A:C8	2.53	0.41
1:I:75:A:N3	1:I:76:A:N9	2.66	0.41
4:L:798:U:H2'	4:L:799:U:C6	2.50	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
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
5:M:347:U:O2'	5:M:348:U:O4'	2.38	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
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
6:N:274:U:H2'	6:N:275:U:C6	2.47	0.41
1:I:202:A:N3	1:I:203:A:N9	2.69	0.41
2:J:165:A:C5	2:J:166:A:N7	2.87	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
3:K:235:A:C2'	3:K:236:A:H5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:185:A:C4	2:J:186:A:N7	2.88	0.41
2:J:59:A:N3	2:J:60:A:C8	2.89	0.41
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:96:A:C2	2:J:97:A:C8	3.08	0.41
2:J:95:A:C2	2:J:96:A:C4	3.08	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
5:M:339:U:O2'	5:M:340:U:H5'	2.20	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
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
3:K:70:A:C2'	3:K:71:A:H5'	2.51	0.41
3:K:78:A:H2'	3:K:79:A:O4'	2.21	0.41
3:K:78:A:H2'	3:K:79:A:C5'	2.51	0.41
3:K:91:A:N6	3:K:92:A:H62	2.18	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
1:I:19:A:N1	1:I:20:A:C5	2.89	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
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:349:U:H2'	5:M:350:U:C4'	2.49	0.41
1:I:208:A:C4	1:I:209:A:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
6:N:506:U:H2'	6:N:507:U:C6	2.55	0.41
2:J:267:A:O2'	2:J:268:A:H5'	2.20	0.41
1:I:33:A:H2'	1:I:34:A:H8	1.85	0.41
6:N:320:U:C2'	6:N:321:U:O5'	2.69	0.41
1:I:300:A:H2'	1:I:301:A:H8	1.86	0.41
6:N:302:U:O2'	6:N:303:U:C5'	2.62	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:16:A:C2	2:J:17:A:C8	3.08	0.41
2:J:186:A:H2'	2:J:187:A:C5'	2.51	0.41
2:J:46:A:C2	2:J:47:A:N7	2.89	0.41
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
5:M:335:U:O5'	5:M:336:U:P	2.79	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
4:L:470:U:H2'	4:L:471:U:H6	1.85	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
6:N:413:U:H2'	6:N:414:U:O5'	2.21	0.41
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: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)
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
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
6:N:279:U:C4	6:N:280:U:H5	2.38	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
4:L:668:U:C4	4:L:669:U:C4	3.07	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
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
2:J:247:A:C2'	2:J:248:A:O5'	2.69	0.41
2:J:237:A:C4	2:J:238:A:C8	3.08	0.41
3:K:217:A:C4	3:K:218:A:N7	2.89	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
3:K:46:A:C3'	3:K:47:A:C5'	2.85	0.41
6:N:349:U:C2'	6:N:350:U:O5'	2.68	0.41
4:L:454:U:C2	4:L:455:U:C5	3.09	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:30:A:N1	5:M:524:U:C4	2.88	0.41
2:J:51:A:O2'	2:J:52:A:O4'	2.39	0.41
2:J:54:A:HO2'	2:J:55:A:C4'	2.33	0.41
2:J:76:A:H2'	2:J:77:A:H8	1.86	0.41
5:M:392:U:C2	5:M:393:U:C5	3.09	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
2:J:11:A:C2	2:J:12:A:N9	2.89	0.41
2:J:33:A:N6	2:J:34:A:H62	2.19	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:79:A:H2'	2:J:80:A:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:362:U:H2'	5:M:363:U:C6	2.56	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
5:M:435:U:C2'	5:M:436:U:C6	2.84	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
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
3:K:99:A:N3	3:K:100:A:C1'	2.84	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:69:A:H2'	3:K:70:A:C8	2.56	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:451:U:C3'	6:N:452:U:C5'	2.70	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
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:67:A:N3	3:K:68:A:C8	2.89	0.41
6:N:400:U:O2	6:N:401:U:C6	2.73	0.41
6:N:449:U:O2'	6:N:450:U:O4'	2.38	0.41
6:N:459:U:N3	6:N:460:U:C4	2.89	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
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
1:I:68:A:C2	1:I:69:A:C5	3.08	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
3:K:253:A:N6	6:N:279:U:C4	2.89	0.41
1:I:196:A:N1	1:I:197:A:C5	2.89	0.41
4:L:649:U:N3	4:L:650:U:C4	2.88	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
1:I:100:A:H2'	1:I:101:A:C5'	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:660:U:H2'	4:L:661:U:C5'	2.45	0.41
2:J:201:A:N3	2:J:202:A:C8	2.89	0.41
1:I:222:A:C2	1:I:223:A:C8	3.09	0.41
1:I:271:A:C4	1:I:272:A:N7	2.88	0.41
4:L:542:U:C4	4:L:543:U:C4	3.08	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
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
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:378:A:O2'	1:I:379:A:H5'	2.21	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
6:N:272:U:C2	6:N:273:U:C5	3.09	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
4:L:435:U:C2'	4:L:436:U:H6	2.24	0.41
4:L:424:U:C6	4:L:425:U:C5	3.09	0.41
6:N:321:U:C2'	6:N:322:U:H6	2.32	0.41
3:K:203:A:H2	3:K:204:A:C4	2.37	0.41
6:N:326:U:C2'	6:N:327:U:H6	2.23	0.41
4:L:451:U:N3	4:L:452:U:C4	2.89	0.41
3:K:180:A:N6	3:K:181:A:N6	2.69	0.41
3:K:33:A:O2'	3:K:34:A:C5'	2.60	0.41
2:J:255:A:C2	2:J:256:A:C5	3.09	0.41
3:K:195:A:C4	3:K:196:A:N7	2.89	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:90:A:C6	2:J:91:A:C5	3.09	0.41
5:M:360:U:N3	5:M:361:U:C5	2.89	0.41
2:J:220:A:N1	2:J:221:A: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
1:I:309:A:C4	1:I:310:A:C8	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:323:A:H2	1:I:324:A:H1'	1.84	0.41
3:K:129:A:H2'	3:K:130:A:C8	2.53	0.41
3:K:89:A:C6	3:K:90:A:N6	2.89	0.41
3:K:94:A:C6	3:K:95:A:N6	2.89	0.41
6:N:419:U:O2	6:N:420:U:C6	2.74	0.41
6:N:428:U:HO2'	6:N:429:U:H5'	1.86	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
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
1:I:159:A:C2	1:I:160:A:C4	3.09	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
2:J:205:A:C5	2:J:206:A:C8	3.08	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
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
6:N:491:U:C2	6:N:492:U:C5	3.09	0.41
2:J:266:A:C2	2:J:267:A:C5	3.09	0.41
2:J:240:A:C2'	2:J:241:A:H5'	2.49	0.41
3:K:212:A:C8	3:K:213:A:N7	2.89	0.41
6:N:343:U:H2'	6:N:344:U:H6	1.86	0.41
1:I:397:A:H2'	1:I:398:A:H8	1.86	0.41
2:J:252:A:C2'	2:J:253:A:O5'	2.69	0.41
1:I:170:A:O2'	1:I:171:A:H5'	2.20	0.41
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:472:U:N3	5:M:473:U:C4	2.90	0.40
5:M:321:U:H2'	5:M:322:U:C6	2.56	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
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
3:K:109:A:H2'	3:K:110:A:C5'	2.51	0.40
3:K:155:A:C2	3:K:156:A:C5	3.10	0.40
3:K:96:A:H2'	3:K:97:A:C5'	2.44	0.40
6:N:379:U:O2'	6:N:380:U:C4'	2.69	0.40
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
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
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
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
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
1:I:372:A:H2'	1:I:373:A:O5'	2.21	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
1:I:298:A:C2'	1:I:299:A:H5'	2.51	0.40
1:I:387:A:C6	1:I:388:A:C5	3.08	0.40
3:K:11:A:HO3'	3:K:12:A:P	2.36	0.40
4:L:444:U:H2'	4:L:445:U:C6	2.57	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
2:J:132:A:H2'	2:J:133:A:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:M:404:U:N3	5:M:405:U:C4	2.89	0.40
2:J:146:A:N6	5:M:408:U:O4	2.54	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
5:M:309:U:H2'	5:M:310:U:H6	1.86	0.40
1:I:347:A:C2'	1:I:348:A:O5'	2.68	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
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
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
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
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
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
4:L:702:U:C2'	4:L:703:U:O5'	2.69	0.40
2:J:207:A:C2	2:J:208:A:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:352:U:C2'	5:M:353:U:O5'	2.67	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
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
6:N:502:U:C2'	6:N:503:U:H5'	2.50	0.40
2:J:267:A:N3	2:J:268:A:C8	2.90	0.40
1:I:202:A:H2'	1:I:203:A:O4'	2.22	0.40
4:L:420:U:C4	4:L:421:U:C4	3.09	0.40
2:J:167:A:H2'	2:J:168:A:H8	1.86	0.40
6:N:316:U:O2'	6:N:317:U:C5'	2.69	0.40
1:I:292:A:C2	1:I:293:A:N7	2.89	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
2:J:175:A:C2	2:J:176:A:C4	3.10	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
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
5:M:323:U:C2	5:M:324:U:N1	2.90	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
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:57:A:N1	3:K:58:A:C6	2.89	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
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:3:A:N3	1:I:4:A:C8	2.89	0.40
4:L:788:U:C2	4:L:789:U:C5	3.08	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
4:L:692:U:H2'	4:L:693:U:C5'	2.49	0.40
2:J:204:A:H62	2:J:205:A:H62	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:277:A:H61	1:I:278:A:N6	2.02	0.40
4:L:567:U:C2	4:L:568:U:C5	3.10	0.40
1:I:374:A:C2'	1:I:375:A:H5'	2.47	0.40
2:J:263:A:H2'	2:J:264:A:H8	1.86	0.40
2:J:166:A:C2'	2:J:167:A:O5'	2.69	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
6:N:310:U:C2	6:N:311:U:C6	3.09	0.40
6:N:312:U:C2	6:N:313:U:C6	3.09	0.40
6:N:312:U:C2'	6:N:313:U:H5'	2.50	0.40
6:N:322:U:N3	6:N:323:U:C4	2.90	0.40
3:K:42:A:C2'	3:K:43:A:O4'	2.68	0.40
6:N:517:U:H2'	6:N:518:U:C6	2.56	0.40
6:N:517:U:O3'	6:N:518:U:OP2	2.39	0.40
6:N:520:U:H2'	6:N:521:U:H6	1.87	0.40
5:M:303:U:C2	5:M:304:U:C6	3.08	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:65:A:C6	2:J:66:A:C5	3.09	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
2:J:214:A:HO2'	2:J:215:A:C5'	2.04	0.40
5:M:323:U:C2'	5:M:324:U:H6	2.24	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
4:L:477:U:O2	4:L:478:U:O4'	2.39	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:79:A:N6	1:I:80:A:C6	2.90	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
1:I:157:A:C2'	1:I:158:A:O5'	2.69	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
1:I:239:A:H2'	1:I:240:A:C8	2.48	0.40
1:I:239:A:N3	1:I:240:A:N9	2.70	0.40
1:I:271:A:H2'	1:I:272:A:C8	2.49	0.40
4:L:607:U:C2'	4:L:608:U:H5'	2.51	0.40
1:I:354:A:N6	1:I:355:A:N6	2.70	0.40
4:L:421:U:C2'	4:L:422:U:C4'	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:229:A:H2'	2:J:230:A:C4'	2.44	0.40
1:I:397:A:N6	1:I:398:A:N6	2.70	0.40
3:K:41:A:C2'	3:K:42:A:O5'	2.69	0.40
5:M:300:U:C2'	5:M:301:U:O5'	2.67	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: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:42:A:N3	2:J:43:A:C8	2.89	0.40
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
5:M:392:U:O2	5:M:393:U:C6	2.75	0.40
2:J:144:A:N1	5:M:410:U:C2	2.87	0.40
5:M:511:U:C2'	5:M:512:U:H6	2.33	0.40
2:J:226:A:O2'	2:J:227:A:H5'	2.21	0.40
1:I:345:A:N3	1:I:346:A:C8	2.89	0.40
4:L:494:U:H2'	4:L:495:U:O5'	2.22	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:92:A:C2	3:K:93:A:C8	3.10	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
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
6:N:282:U:N3	6:N:283:U:C5	2.89	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:587:U:HO2'	4:L:588:U:C4'	2.34	0.40
6:N:494:U:H2'	6:N:495:U:H6	1.86	0.40
2:J:264:A:N3	2:J:265:A:C8	2.89	0.40
1:I:363:A:O2'	1:I:364:A:H5'	2.21	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
3:K:234:A:C6	3:K:235:A:C6	3.08	0.40
5:M:296:U:C4	5:M:297:U:C5	3.10	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
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
4:L:752:U:C1'	5:M:499:U:OP1[3_556]	0.36	1.84
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
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:67:A:C2	2:J:44:A:O3'[3_556]	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
2:J:43:A:O4'	4:L:760:U:C5'[3_546]	0.45	1.75
1:I:143:A:C1'	4:L:471:U:O2'[3_556]	0.45	1.75
3:K:148:A:P	5:M:385:U:O5'[4_556]	0.46	1.74
1:I:62:A:N7	5:M:505:U:P[3_556]	0.46	1.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:I:64:A:C4'	5:M:502:U:O2[3_556]	0.48	1.72
3:K:143:A:N7	5:M:389:U:O2'[4_556]	0.49	1.71
2:J:168:A:P	6:N:383:U:O5'[4_456]	0.49	1.71
2:J:240:A:OP1	6:N:514:U:OP1[2_666]	0.50	1.70
2:J:48:A:N9	4:L:755:U:P[3_546]	0.50	1.70
2:J:164:A:O4'	6:N:387:U:O5'[4_456]	0.51	1.69
3:K:144:A:O5'	5:M:389:U:P[4_556]	0.51	1.69
2:J:169:A:OP2	6:N:382:U:C1'[4_456]	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
3:K:149:A:O4'	5:M:383:U:N3[4_556]	0.53	1.67
2:J:44:A:C8	4:L:759:U:C6[3_546]	0.53	1.67
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
3:K:12:A:C4	5:M:313:U:C5[2_664]	0.57	1.63
1:I:63:A:C3'	5:M:503:U:O2[3_556]	0.57	1.63
1:I:62:A:C2	5:M:504:U:C5'[3_556]	0.57	1.63
2:J:43:A:N9	4:L:759:U:C3'[3_546]	0.58	1.62
2:J:47:A:C3'	4:L:754:U:C2[3_546]	0.59	1.61
1:I:63:A:N3	5:M:503:U:O3'[3_556]	0.59	1.61
2:J:244:A:N6	6:N:517:U:C5'[2_666]	0.60	1.60
1:I:65:A:OP1	5:M:502:U:C5[3_556]	0.60	1.60
1:I:62:A:C8	5:M:505:U:O5'[3_556]	0.60	1.60
1:I:143:A:C5	4:L:471:U:O4'[3_556]	0.60	1.60
4:L:756:U:O3'	5:M:508:U:N3[3_556]	0.60	1.60
3:K:149:A:C4'	5:M:383:U:C2[4_556]	0.61	1.59
3:K:142:A:N1	5:M:390:U:C4'[4_556]	0.61	1.59
5:M:312:U:C4'	6:N:519:U:O2[2_666]	0.61	1.59
3:K:149:A:OP2	5:M:384:U:C1'[4_556]	0.61	1.59
2:J:44:A:N3	4:L:758:U:N1[3_546]	0.61	1.59
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:64:A:O3'	5:M:502:U:N1[3_556]	0.62	1.58
4:L:751:U:C3'	5:M:499:U:C4'[3_556]	0.63	1.57
2:J:242:A:C2	6:N:518:U:O4[2_666]	0.63	1.57
2:J:46:A:C8	4:L:756:U:N3[3_546]	0.63	1.57
1:I:69:A:C5	2:J:45:A:O3'[3_556]	0.63	1.57
1:I:66:A:C5'	5:M:502:U:OP1[3_556]	0.63	1.57
5:M:312:U:O4'	6:N:519:U:C2[2_666]	0.64	1.56
2:J:44:A:C1'	4:L:758:U:O2[3_546]	0.64	1.56
3:K:143:A:N9	5:M:389:U:O3'[4_556]	0.65	1.55
1:I:59:A:O5'	2:J:41:A:OP1[3_556]	0.65	1.55
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:P	5:M:505:U:C2'[3_556]	0.66	1.54
1:I:62:A:C4	5:M:504:U:C3'[3_556]	0.68	1.52
2:J:170:A:O5'	3:K:151:A:C8[4_456]	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
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
5:M:392:U:C5'	6:N:389:U:OP1[4_456]	0.69	1.51
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
3:K:145:A:OP2	5:M:388:U:O5'[4_556]	0.70	1.50
3:K:144:A:C6	5:M:389:U:N3[4_556]	0.70	1.50
2:J:169:A:O4'	6:N:381:U:N3[4_456]	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
5:M:390:U:C2	6:N:388:U:N3[4_456]	0.71	1.49
3:K:148:A:C4	5:M:385:U:O4[4_556]	0.71	1.49
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:64:A:C2	5:M:503:U:OP1[3_556]	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:356:A:N6	4:L:679:U:N3[3_546]	0.74	1.46
1:I:62:A:N9	5:M:504:U:C3'[3_556]	0.74	1.46
2:J:43:A:N1	4:L:758:U:C3'[3_546]	0.75	1.45
1:I:69:A:C6	2:J:46:A:P[3_556]	0.75	1.45
2:J:171:A:OP2	3:K:151:A:OP1[4_456]	0.75	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:OP2	3:K:151:A:P[4_456]	0.75	1.45
4:L:752:U:O4'	5:M:499:U:P[3_556]	0.76	1.44
2:J:169:A:C6	3:K:149:A:C6[4_456]	0.76	1.44
2:J:164:A:N9	6:N:387:U:C6[4_456]	0.76	1.44
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:C3'	5:M:503:U:C2[3_556]	0.77	1.43
1:I:146:A:N1	1:I:356:A:N7[3_556]	0.78	1.42
1:I:63:A:P	5:M:504:U:N3[3_556]	0.78	1.42
3:K:12:A:C4'	5:M:314:U:C4[2_664]	0.78	1.42
1:I:63:A:C5	5:M:504:U:OP2[3_556]	0.78	1.42
3:K:144:A:N7	5:M:389:U:C6[4_556]	0.79	1.41
2:J:170:A:N7	3:K:150:A:C4[4_456]	0.79	1.41
1:I:146:A:C5	1:I:356:A:C8[3_556]	0.79	1.41
2:J:171:A:N7	3:K:150:A:C5'[4_456]	0.79	1.41
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
1:I:71:A:N1	2:J:47:A:C5'[3_556]	0.80	1.40
2:J:236:A:O3'	6:N:522:U:O2'[2_666]	0.80	1.40
1:I:62:A:N3	5:M:504:U:C4'[3_556]	0.80	1.40
5:M:312:U:P	6:N:520:U:C5[2_666]	0.80	1.40
3:K:143:A:N9	5:M:389:U:C3'[4_556]	0.81	1.39
2:J:48:A:P	4:L:754:U:C5[3_546]	0.81	1.39
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
5:M:312:U:O5'	6:N:520:U:C5[2_666]	0.82	1.38
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
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
3:K:147:A:C4'	5:M:386:U:OP2[4_556]	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
1:I:64:A:O2'	5:M:502:U:C1'[3_556]	0.83	1.37
3:K:13:A:C4'	5:M:313:U:O2'[2_664]	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
1:I:62:A:O3'	5:M:504:U:O2[3_556]	0.84	1.36
1:I:149:A:C4'	4:L:466:U:C5[3_556]	0.85	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:168:A:C4	6:N:383:U:O4[4_456]	0.85	1.35
2:J:169:A:C5'	6:N:381:U:O2[4_456]	0.85	1.35
2:J:44:A:C2	4:L:758:U:C6[3_546]	0.85	1.35
2:J:168:A:C5'	6:N:383:U:OP2[4_456]	0.85	1.35
2:J:45:A:C8	4:L:758:U:C4[3_546]	0.85	1.35
1:I:146:A:O4'	1:I:356:A:C5'[3_556]	0.85	1.35
3:K:144:A:N6	5:M:389:U:N3[4_556]	0.86	1.34
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
4:L:756:U:C3'	5:M:508:U:N3[3_556]	0.86	1.34
2:J:244:A:C8	6:N:517:U:O2'[2_666]	0.86	1.34
1:I:64:A:P	5:M:503:U:N3[3_556]	0.86	1.34
2:J:170:A:N7	3:K:150:A:C5[4_456]	0.87	1.33
1:I:66:A:O5'	5:M:502:U:OP1[3_556]	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
4:L:469:U:C1'	4:L:680:U:P[3_546]	0.88	1.32
2:J:164:A:O2'	6:N:387:U:OP2[4_456]	0.88	1.32
1:I:65:A:O3'	5:M:502:U:P[3_556]	0.88	1.32
1:I:143:A:N7	4:L:471:U:O4'[3_556]	0.88	1.32
5:M:392:U:O5'	6:N:389:U:OP1[4_456]	0.88	1.32
4:L:757:U:C4'	5:M:509:U:O2[3_556]	0.88	1.32
2:J:45:A:N9	4:L:757:U:C2[3_546]	0.88	1.32
1:I:69:A:C4	2:J:45:A:O3'[3_556]	0.88	1.32
2:J:44:A:P	4:L:760:U:C6[3_546]	0.88	1.32
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:147:A:C6	5:M:386:U:O4[4_556]	0.89	1.31
3:K:12:A:N6	5:M:312:U:C4[2_664]	0.89	1.31
2:J:42:A:O3'	4:L:761:U:OP2[3_546]	0.89	1.31
2:J:168:A:N1	3:K:148:A:N6[4_456]	0.90	1.30
1:I:68:A:C2	2:J:45:A:C4'[3_556]	0.90	1.30
2:J:242:A:O3'	3:K:15:A:N3[2_666]	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:49:A:OP1	4:L:753:U:O2'[3_546]	0.91	1.29
1:I:64:A:C2'	5:M:502:U:C2'[3_556]	0.91	1.29
5:M:391:U:N1	6:N:388:U:C2'[4_456]	0.91	1.29
2:J:167:A:OP1	6:N:384:U:OP1[4_456]	0.91	1.29
3:K:148:A:OP2	5:M:385:U:C4'[4_556]	0.91	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:244:A:N6	6:N:517:U:O5'[2_666]	0.91	1.29
2:J:243:A:N7	6:N:517:U:C2[2_666]	0.91	1.29
3:K:147:A:C5'	5:M:386:U:OP2[4_556]	0.92	1.28
2:J:170:A:N6	3:K:149:A:C4[4_456]	0.92	1.28
2:J:44:A:O5'	4:L:759:U:O2[3_546]	0.92	1.28
1:I:352:A:OP1	4:L:676:U:C3'[3_546]	0.93	1.27
2:J:167:A:C5'	6:N:384:U:OP2[4_456]	0.93	1.27
2:J:43:A:N6	4:L:759:U:OP2[3_546]	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
5:M:312:U:O4'	6:N:519:U:N3[2_666]	0.95	1.25
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
1:I:144:A:OP2	4:L:472:U:C1'[3_556]	0.96	1.24
2:J:170:A:OP1	3:K:151:A:C1'[4_456]	0.96	1.24
2:J:164:A:C4'	6:N:387:U:O5'[4_456]	0.96	1.24
1:I:69:A:C5	2:J:46:A:P[3_556]	0.96	1.24
1:I:68:A:C2	2:J:45:A:C5'[3_556]	0.96	1.24
3:K:12:A:N6	5:M:312:U:C5[2_664]	0.96	1.24
2:J:164:A:N7	6:N:387:U:N1[4_456]	0.96	1.24
1:I:62:A:C5'	5:M:505:U:O4'[3_556]	0.96	1.24
2:J:49:A:OP2	4:L:754:U:O5'[3_546]	0.97	1.23
3:K:146:A:C6	5:M:387:U:O4[4_556]	0.97	1.23
1:I:61:A:C3'	5:M:505:U:O3'[3_556]	0.97	1.23
3:K:12:A:N9	5:M:313:U:C4[2_664]	0.97	1.23
3:K:149:A:C5'	5:M:383:U:O2[4_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:242:A:C3'	3:K:15:A:C5[2_666]	0.97	1.23
5:M:391:U:P	6:N:390:U:C5[4_456]	0.97	1.23
2:J:43:A:C6	4:L:759:U:P[3_546]	0.98	1.22
1:I:64:A:C4	5:M:503:U:P[3_556]	0.98	1.22
5:M:390:U:C2'	6:N:389:U:O4[4_456]	0.98	1.22
2:J:171:A:N7	3:K:150:A:C4'[4_456]	0.98	1.22
2:J:168:A:OP1	6:N:383:U:C5'[4_456]	0.98	1.22
2:J:171:A:C5	3:K:150:A:C5'[4_456]	0.98	1.22
1:I:70:A:C4	2:J:46:A:C4'[3_556]	0.98	1.22
2:J:48:A:O5'	4:L:754:U:C6[3_546]	0.98	1.22
2:J:244:A:C5	6:N:517:U:O3'[2_666]	0.99	1.21
1:I:142:A:O2'	4:L:472:U:OP2[3_556]	0.99	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:170:A:C5	3:K:150:A:N7[4_456]	0.99	1.21
2:J:44:A:OP1	4:L:760:U:C2[3_546]	0.99	1.21
2:J:170:A:N6	3:K:149:A:N3[4_456]	0.99	1.21
4:L:756:U:O3'	5:M:508:U:C2[3_556]	0.99	1.21
3:K:147:A:O5'	5:M:386:U:O5'[4_556]	0.99	1.21
1:I:70:A:N3	2:J:46:A:C4'[3_556]	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
2:J:42:A:N9	4:L:760:U:OP1[3_546]	1.00	1.20
1:I:62:A:N3	5:M:504:U:C5'[3_556]	1.00	1.20
2:J:43:A:N3	4:L:759:U:O4'[3_546]	1.00	1.20
4:L:469:U:C4	4:L:679:U:C1'[3_546]	1.01	1.19
2:J:49:A:P	4:L:754:U:C5'[3_546]	1.01	1.19
1:I:61:A:C2'	5:M:505:U:C4'[3_556]	1.01	1.19
2:J:44:A:OP2	4:L:760:U:C6[3_546]	1.01	1.19
4:L:757:U:OP2	5:M:508:U:O4[3_556]	1.01	1.19
2:J:168:A:C5	6:N:383:U:O4[4_456]	1.01	1.19
2:J:45:A:C4	4:L:757:U:C6[3_546]	1.01	1.19
1:I:143:A:N9	4:L:471:U:C2'[3_556]	1.01	1.19
3:K:142:A:N1	5:M:390:U:C5'[4_556]	1.01	1.19
2:J:45:A:N3	4:L:757:U:C6[3_546]	1.01	1.19
4:L:469:U:C1'	4:L:680:U:OP2[3_546]	1.01	1.19
1:I:62:A:O5'	5:M:505:U:C1'[3_556]	1.02	1.18
3:K:148:A:OP1	5:M:385:U:C5'[4_556]	1.02	1.18
1:I:64:A:C3'	5:M:502:U:C2[3_556]	1.02	1.18
3:K:143:A:C1'	5:M:389:U:O3'[4_556]	1.02	1.18
2:J:164:A:C4'	6:N:387:U:P[4_456]	1.02	1.18
1:I:64:A:O2'	5:M:502:U:O4'[3_556]	1.02	1.18
5:M:390:U:O2'	6:N:389:U:O4[4_456]	1.03	1.17
2:J:164:A:C4	6:N:387:U:C5[4_456]	1.03	1.17
2:J:43:A:C3'	4:L:760:U:O4'[3_546]	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
1:I:70:A:N6	2:J:47:A:OP2[3_556]	1.03	1.17
2:J:167:A:O5'	6:N:384:U:P[4_456]	1.04	1.16
1:I:143:A:O3'	4:L:472:U:C1'[3_556]	1.04	1.16
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
2:J:164:A:C3'	6:N:386:U:O3'[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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:169:A:O4'	6:N:381:U:C2[4_456]	1.04	1.16
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
4:L:756:U:O2'	5:M:508:U:O2[3_556]	1.06	1.14
2:J:168:A:OP2	6:N:383:U:C4'[4_456]	1.06	1.14
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
2:J:48:A:C5'	4:L:754:U:N1[3_546]	1.06	1.14
1:I:143:A:O3'	4:L:472:U:N1[3_556]	1.06	1.14
2:J:47:A:C6	4:L:756:U:OP2[3_546]	1.06	1.14
3:K:147:A:C5'	5:M:386:U:P[4_556]	1.06	1.14
1:I:146:A:C4	1:I:356:A:C8[3_556]	1.06	1.14
2:J:171:A:C6	3:K:149:A:O2'[4_456]	1.07	1.13
2:J:48:A:O4'	4:L:754:U:C3'[3_546]	1.07	1.13
1:I:146:A:C1'	1:I:356:A:O5'[3_556]	1.07	1.13
1:I:62:A:C2	5:M:504:U:O5'[3_556]	1.07	1.13
2:J:170:A:OP1	3:K:151:A:C2'[4_456]	1.07	1.13
2:J:48:A:P	4:L:754:U:C6[3_546]	1.07	1.13
3:K:142:A:C6	5:M:390:U:C4'[4_556]	1.07	1.13
1:I:59:A:P	2:J:41:A:P[3_556]	1.07	1.13
1:I:71:A:C6	2:J:47:A:OP1[3_556]	1.07	1.13
5:M:391:U:C2	6:N:388:U:C1'[4_456]	1.07	1.13
4:L:756:U:OP1	5:M:507:U:N3[3_556]	1.07	1.13
3:K:147:A:O3'	5:M:385:U:C3'[4_556]	1.07	1.13
2:J:44:A:N9	4:L:759:U:C6[3_546]	1.07	1.13
4:L:751:U:O2'	5:M:499:U:C5'[3_556]	1.08	1.12
2:J:48:A:O5'	4:L:754:U:N1[3_546]	1.08	1.12
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
3:K:143:A:C8	5:M:389:U:O2'[4_556]	1.08	1.12
1:I:64:A:C5'	5:M:502:U:O2[3_556]	1.09	1.11
2:J:45:A:C4	4:L:757:U:N1[3_546]	1.09	1.11
1:I:352:A:OP2	4:L:677:U:OP2[3_546]	1.09	1.11
3:K:148:A:N7	5:M:385:U:C4[4_556]	1.09	1.11
3:K:144:A:OP2	5:M:388:U:O2'[4_556]	1.09	1.11
2:J:170:A:C8	3:K:150:A:C4[4_456]	1.09	1.11
2:J:43:A:C8	4:L:760:U:P[3_546]	1.09	1.11
1:I:142:A:C2'	4:L:472:U:OP2[3_556]	1.09	1.11
5:M:391:U:N3	6:N:388:U:C1'[4_456]	1.10	1.10
3:K:149:A:O4'	5:M:383:U:C4[4_556]	1.10	1.10
2:J:43:A:C5	4:L:759:U:O5'[3_546]	1.10	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:751:U:C3'	5:M:499:U:C3'[3_556]	1.10	1.10
1:I:62:A:N9	5:M:504:U:C2'[3_556]	1.10	1.10
2:J:166:A:C6	6:N:385:U:O4[4_456]	1.10	1.10
3:K:149:A:C5'	5:M:383:U:C2[4_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
1:I:59:A:P	2:J:40:A:O3'[3_556]	1.10	1.10
2:J:242:A:P	3:K:16:A:N6[2_666]	1.10	1.10
2:J:43:A:O3'	4:L:760:U:O4'[3_546]	1.11	1.09
3:K:143:A:N7	5:M:389:U:C2'[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
5:M:391:U:C6	6:N:389:U:C6[4_456]	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
1:I:63:A:O5'	5:M:504:U:C2[3_556]	1.11	1.09
3:K:149:A:OP2	5:M:384:U:N1[4_556]	1.11	1.09
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
4:L:469:U:C4	4:L:679:U:N1[3_546]	1.12	1.08
2:J:169:A:C8	6:N:382:U:C4[4_456]	1.12	1.08
1:I:63:A:P	5:M:504:U:C2[3_556]	1.12	1.08
2:J:242:A:C3'	3:K:15:A:C6[2_666]	1.12	1.08
1:I:68:A:N1	2:J:45:A:C4'[3_556]	1.12	1.08
1:I:69:A:N1	2:J:46:A:O5'[3_556]	1.13	1.07
1:I:62:A:C2'	5:M:504:U:C1'[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
3:K:148:A:C5'	5:M:385:U:OP2[4_556]	1.13	1.07
3:K:147:A:OP2	5:M:386:U:C5'[4_556]	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
4:L:752:U:O4'	5:M:499:U:O5'[3_556]	1.13	1.07
2:J:169:A:P	6:N:382:U:O4'[4_456]	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:390:U:O2	6:N:388:U:N3[4_456]	1.15	1.05
5:M:309:U:C4	6:N:517:U:OP1[2_666]	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
2:J:164:A:O5'	6:N:386:U:O2'[4_456]	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:44:A:C8	4:L:759:U:C5[3_546]	1.16	1.04
1:I:62:A:C1'	5:M:504:U:O2'[3_556]	1.16	1.04
2:J:164:A:C8	6:N:387:U:N1[4_456]	1.16	1.04
1:I:61:A:C3'	5:M:505:U:C3'[3_556]	1.16	1.04
1:I:63:A:O3'	5:M:503:U:C2[3_556]	1.16	1.04
1:I:70:A:C2	2:J:46:A:C2'[3_556]	1.16	1.04
2:J:169:A:N6	3:K:149:A:C5[4_456]	1.16	1.04
2:J:47:A:C2'	4:L:754:U:O2[3_546]	1.16	1.04
2:J:244:A:C4	6:N:517:U:O3'[2_666]	1.16	1.04
1:I:64:A:N9	5:M:503:U:O5'[3_556]	1.16	1.04
3:K:148:A:C8	5:M:385:U:C5[4_556]	1.16	1.04
1:I:150:A:OP2	4:L:465:U:O3'[3_556]	1.16	1.04
3:K:144:A:C5'	5:M:389:U:OP2[4_556]	1.17	1.03
2:J:46:A:C4	4:L:756:U:C6[3_546]	1.17	1.03
3:K:148:A:P	5:M:385:U:C5'[4_556]	1.17	1.03
2:J:48:A:C1'	4:L:754:U:C3'[3_546]	1.17	1.03
2:J:243:A:N7	6:N:517:U:N1[2_666]	1.17	1.03
2:J:169:A:O3'	3:K:151:A:C4[4_456]	1.17	1.03
3:K:144:A:P	5:M:388:U:O3'[4_556]	1.17	1.03
2:J:47:A:O3'	4:L:754:U:N3[3_546]	1.17	1.03
1:I:61:A:O3'	5:M:505:U:C3'[3_556]	1.17	1.03
3:K:12:A:C4'	5:M:314:U:C5[2_664]	1.17	1.03
2:J:242:A:C4	6:N:517:U:O4[2_666]	1.17	1.03
4:L:469:U:C6	4:L:679:U:O3'[3_546]	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
1:I:65:A:C3'	5:M:502:U:P[3_556]	1.18	1.02
1:I:63:A:O3'	5:M:503:U:O2[3_556]	1.18	1.02
2:J:48:A:C4'	4:L:754:U:O4'[3_546]	1.18	1.02
2:J:243:A:N3	6:N:518:U:C6[2_666]	1.18	1.02
1:I:64:A:C1'	5:M:502:U:O2'[3_556]	1.18	1.02
4:L:469:U:C5	4:L:679:U:O4'[3_546]	1.18	1.02
1:I:70:A:C6	2:J:46:A:C3'[3_556]	1.18	1.02
2:J:43:A:C1'	4:L:759:U:O2'[3_546]	1.18	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:163:A:N1	6:N:387:U:O2[4_456]	1.18	1.02
3:K:142:A:C2	5:M:390:U:O5'[4_556]	1.18	1.02
1:I:65:A:P	5:M:502:U:C5[3_556]	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
1:I:65:A:O4'	5:M:502:U:C5'[3_556]	1.18	1.02
2:J:45:A:C8	4:L:758:U:C5[3_546]	1.18	1.02
1:I:64:A:C1'	5:M:502:U:C2'[3_556]	1.18	1.02
1:I:143:A:C8	4:L:471:U:C3'[3_556]	1.18	1.02
5:M:391:U:C2'	6:N:389:U:P[4_456]	1.19	1.01
3:K:143:A:C5	5:M:389:U:C2'[4_556]	1.19	1.01
2:J:48:A:N9	4:L:755:U:O5'[3_546]	1.19	1.01
1:I:63:A:C2	5:M:503:U:O3'[3_556]	1.19	1.01
2:J:48:A:O3'	4:L:754:U:C5'[3_546]	1.19	1.01
3:K:144:A:N7	5:M:389:U:N1[4_556]	1.19	1.01
2:J:164:A:C4	6:N:387:U:C6[4_456]	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:242:A:C4'	3:K:15:A:N7[2_666]	1.19	1.01
4:L:751:U:O2'	5:M:499:U:O5'[3_556]	1.19	1.01
3:K:149:A:C1'	5:M:383:U:N3[4_556]	1.19	1.01
2:J:242:A:OP2	3:K:16:A:N6[2_666]	1.20	1.00
2:J:168:A:N6	3:K:148:A:C6[4_456]	1.20	1.00
2:J:164:A:C5	6:N:387:U:N3[4_456]	1.20	1.00
1:I:69:A:C2	2:J:45:A:O2'[3_556]	1.20	1.00
2:J:47:A:C8	4:L:755:U:C2[3_546]	1.20	1.00
2:J:43:A:O3'	4:L:760:U:C1'[3_546]	1.20	1.00
1:I:150:A:P	4:L:465:U:C2'[3_556]	1.20	1.00
2:J:244:A:N7	6:N:517:U:C3'[2_666]	1.20	1.00
2:J:48:A:C4	4:L:755:U:P[3_546]	1.20	1.00
2:J:47:A:C2'	4:L:754:U:C2[3_546]	1.21	0.99
2:J:171:A:N9	3:K:150:A:O5'[4_456]	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:48:A:OP2	4:L:754:U:C5[3_546]	1.21	0.99
2:J:243:A:N9	6:N:517:U:O2[2_666]	1.21	0.99
1:I:63:A:C2'	5:M:503:U:C1'[3_556]	1.21	0.99
2:J:48:A:C3'	4:L:754:U:C5'[3_546]	1.21	0.99
2:J:165:A:OP2	6:N:386:U:C5'[4_456]	1.22	0.98
4:L:469:U:N1	4:L:679:U:O3'[3_546]	1.22	0.98
1:I:66:A:P	5:M:502:U:P[3_556]	1.22	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:C4	3:K:150:A:P[4_456]	1.22	0.98
1:I:62:A:C8	5:M:505:U:P[3_556]	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
2:J:45:A:N3	4:L:757:U:N1[3_546]	1.22	0.98
4:L:757:U:P	5:M:508:U:N3[3_556]	1.22	0.98
1:I:70:A:C2	2:J:46:A:C3'[3_556]	1.22	0.98
4:L:757:U:C5'	5:M:509:U:N1[3_556]	1.22	0.98
1:I:65:A:C4'	5:M:502:U:C5'[3_556]	1.23	0.97
1:I:63:A:C4'	5:M:503: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
4:L:469:U:C5	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: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
4:L:469:U:N1	4:L:679:U:C3'[3_546]	1.23	0.97
2:J:48:A:C4'	4:L:754:U:C1'[3_546]	1.24	0.96
1:I:59:A:OP1	2:J:41:A:P[3_556]	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:144:A:OP2	4:L:472:U:N1[3_556]	1.24	0.96
2:J:47:A:C8	4:L:755:U:N1[3_546]	1.24	0.96
2:J:48:A:O3'	4:L:754:U:C4'[3_546]	1.24	0.96
2:J:45:A:N7	4:L:758:U:C5[3_546]	1.24	0.96
1:I:352:A:P	4:L:677:U:OP2[3_546]	1.24	0.96
1:I:143:A:C8	4:L:471:U:C1'[3_556]	1.24	0.96
2:J:47:A:N1	4:L:756:U:OP2[3_546]	1.25	0.95
1:I:146:A:C3'	1:I:356:A:P[3_556]	1.25	0.95
1:I:357:A:N6	4:L:679:U:O2[3_546]	1.25	0.95
1:I:68:A:C6	2:J:45:A:O5'[3_556]	1.25	0.95
1:I:143:A:N9	4:L:471:U:C1'[3_556]	1.25	0.95
1:I:356:A:C2	4:L:680:U:N3[3_546]	1.25	0.95
1:I:65:A:C4'	5:M:502:U:O5'[3_556]	1.25	0.95
4:L:752:U:N1	5:M:499:U:OP1[3_556]	1.25	0.95
1:I:351:A:O3'	4:L:677:U:P[3_546]	1.25	0.95
1:I:62:A:C2'	5:M:504:U:N1[3_556]	1.25	0.95
2:J:48:A:C4'	4:L:754:U:C4'[3_546]	1.25	0.95
1:I:71:A:C6	2:J:47:A:P[3_556]	1.25	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:146:A:N9	1:I:356:A:O5'[3_556]	1.25	0.95
2:J:42:A:C1'	4:L:760:U:OP1[3_546]	1.25	0.95
4:L:758:U:OP2	5:M:509:U:O4[3_556]	1.25	0.95
3:K:12:A:C5'	5:M:314:U:C4[2_664]	1.25	0.95
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
5:M:312:U:C4'	6:N:519:U:C2[2_666]	1.26	0.94
1:I:352:A:P	4:L:677:U:P[3_546]	1.26	0.94
4:L:758:U:O5'	5:M:510:U:C4[3_556]	1.26	0.94
3:K:12:A:N3	5:M:313:U:C6[2_664]	1.26	0.94
2:J:171:A:C8	3:K:150:A:O5'[4_456]	1.26	0.94
4:L:758:U:O5'	5:M:510:U:N3[3_556]	1.26	0.94
2:J:167:A:N1	6:N:384:U:O4[4_456]	1.27	0.93
2:J:45:A:C1'	4:L:757:U:C2[3_546]	1.27	0.93
1:I:59:A:OP1	2:J:41:A:O5'[3_556]	1.27	0.93
1:I:70:A:N1	2:J:46:A:C2'[3_556]	1.27	0.93
5:M:391:U:C4	6:N:388:U:O2[4_456]	1.27	0.93
1:I:64:A:C4'	5:M:502:U:C2[3_556]	1.27	0.93
1:I:62:A:N7	5:M:505:U:OP1[3_556]	1.27	0.93
5:M:309:U:O4	6:N:517:U:OP1[2_666]	1.28	0.92
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
5:M:391:U:O2'	6:N:389:U:P[4_456]	1.28	0.92
5:M:390:U:C2'	6:N:389:U:C4[4_456]	1.28	0.92
3:K:12:A:N7	5:M:313:U:O4[2_664]	1.28	0.92
3:K:147:A:C6	5:M:386:U:C4[4_556]	1.28	0.92
3:K:144:A:O5'	5:M:388:U:O3'[4_556]	1.28	0.92
1:I:356:A:N3	4:L:680:U:N3[3_546]	1.29	0.91
1:I:352:A:OP1	4:L:676:U:C2'[3_546]	1.29	0.91
1:I:141:A:O4'	1:I:348:A:OP1[3_556]	1.29	0.91
2:J:168:A:OP1	6:N:383:U:O5'[4_456]	1.29	0.91
2:J:43:A:C4'	4:L:760:U:C5'[3_546]	1.29	0.91
5:M:391:U:C2'	6:N:389:U:OP2[4_456]	1.29	0.91
1:I:63:A:O5'	5:M:504:U:N3[3_556]	1.29	0.91
1:I:62:A:O4'	5:M:504:U:O2'[3_556]	1.29	0.91
1:I:65:A:C3'	5:M:501:U:O3'[3_556]	1.29	0.91
4:L:757:U:O5'	5:M:509:U:C4[3_556]	1.29	0.91
2:J:47:A:N3	4:L:755:U:C4'[3_546]	1.29	0.91
1:I:64:A:O3'	5:M:502:U:C2[3_556]	1.29	0.91
1:I:63:A:C4	5:M:503:U:C3'[3_556]	1.29	0.91
5:M:391:U:P	6:N:390:U:C4[4_456]	1.29	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:61:A:O5'	5:M:506:U:OP1[3_556]	1.29	0.91
3:K:12:A:N3	5:M:313:U:C5[2_664]	1.30	0.90
2:J:43:A:C2'	4:L:759:U:C1'[3_546]	1.30	0.90
1:I:63:A:C4	5:M:504:U:P[3_556]	1.30	0.90
2:J:170:A:C6	3:K:150:A:C8[4_456]	1.30	0.90
1:I:146:A:O5'	1:I:355:A:O3'[3_556]	1.30	0.90
4:L:752:U:C1'	5:M:499:U:P[3_556]	1.30	0.90
1:I:146:A:O3'	1:I:356:A:OP1[3_556]	1.30	0.90
4:L:469:U:O4	4:L:679:U:C1'[3_546]	1.30	0.90
3:K:149:A:C4'	5:M:383:U:O2[4_556]	1.31	0.89
2:J:49:A:O5'	4:L:754:U:C5'[3_546]	1.31	0.89
4:L:758:U:P	5:M:510:U:C4[3_556]	1.31	0.89
1:I:67:A:C4	2:J:45:A:OP1[3_556]	1.31	0.89
3:K:149:A:C4'	5:M:383:U:N3[4_556]	1.31	0.89
1:I:62:A:C3'	5:M:504:U:O2[3_556]	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
4:L:756:U:OP1	5:M:507:U:C2[3_556]	1.31	0.89
1:I:355:A:N6	4:L:679:U:O4[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:48:A:C4'	4:L:754:U:C2'[3_546]	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:62:A:N9	5:M:504:U:O3'[3_556]	1.32	0.88
2:J:48:A:OP1	4:L:754:U:C5[3_546]	1.32	0.88
3:K:12:A:N9	5:M:313:U:C5[2_664]	1.32	0.88
2:J:171:A:N3	3:K:149:A:O3'[4_456]	1.32	0.88
3:K:12:A:C5'	5:M:314:U:O4[2_664]	1.32	0.88
2:J:169:A:O2'	3:K:151:A:N1[4_456]	1.32	0.88
1:I:142:A:N3	4:L:471:U:O3'[3_556]	1.32	0.88
3:K:12:A:C8	5:M:313:U:C4[2_664]	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
5:M:312:U:OP2	6:N:520:U:C4[2_666]	1.33	0.87
1:I:65:A:C5'	5:M:502:U:C6[3_556]	1.33	0.87
2:J:170:A:C4	3:K:150:A:C8[4_456]	1.33	0.87
1:I:146:A:N6	1:I:355:A:C6[3_556]	1.33	0.87
1:I:69:A:C2	2:J:45:A:C2'[3_556]	1.33	0.87
3:K:144:A:C5'	5:M:389:U:P[4_556]	1.34	0.86
1:I:70:A:C2	2:J:46:A:C4'[3_556]	1.34	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:45:A:C1'	4:L:757:U:O2[3_546]	1.34	0.86
5:M:390:U:N3	6:N:388:U:N3[4_456]	1.34	0.86
2:J:43:A:N1	4:L:759:U:O5'[3_546]	1.34	0.86
1:I:62:A:C4'	5:M:505:U:O4'[3_556]	1.34	0.86
2:J:171:A:C8	3:K:150:A:C5'[4_456]	1.34	0.86
3:K:148:A:OP2	5:M:385:U:O4'[4_556]	1.34	0.86
2:J:167:A:C4'	6:N:384:U:OP2[4_456]	1.34	0.86
3:K:147:A:OP2	5:M:386:U:C4'[4_556]	1.34	0.86
2:J:43:A:C2	4:L:758:U:C3'[3_546]	1.34	0.86
1:I:59:A:OP1	2:J:40:A:O3'[3_556]	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
5:M:391:U:OP1	6:N:390:U:C4[4_456]	1.34	0.86
2:J:48:A:C8	4:L:755:U:OP2[3_546]	1.34	0.86
1:I:143:A:O2'	4:L:472:U:O4'[3_556]	1.34	0.86
2:J:168:A:P	6:N:383:U:C5'[4_456]	1.34	0.86
1:I:62:A:O5'	5:M:505:U:C2'[3_556]	1.34	0.86
3:K:144:A:C4'	5:M:389:U:OP2[4_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:63:A:C1'	5:M:503:U:C2'[3_556]	1.35	0.85
3:K:13:A:C5'	5:M:313:U:O2'[2_664]	1.35	0.85
4:L:469:U:C6	4:L:679:U:C4'[3_546]	1.35	0.85
2:J:240:A:C5	3:K:12:A:OP2[2_666]	1.35	0.85
2:J:47:A:C3'	4:L:754:U:O2[3_546]	1.35	0.85
1:I:62:A:P	5:M:505:U:C3'[3_556]	1.35	0.85
2:J:164:A:C5	6:N:387:U:N1[4_456]	1.35	0.85
2:J:47:A:C1'	4:L:755:U:N1[3_546]	1.35	0.85
3:K:143:A:N1	5:M:390:U:N1[4_556]	1.35	0.85
1:I:59:A:O5'	2:J:41:A:P[3_556]	1.35	0.85
2:J:240:A:C6	3:K:12:A:OP2[2_666]	1.35	0.85
2:J:49:A:OP2	4:L:754:U:P[3_546]	1.35	0.85
3:K:13:A:O4'	5:M:313:U:O2'[2_664]	1.35	0.85
4:L:758:U:OP1	5:M:510:U:O4[3_556]	1.35	0.85
3:K:146:A:OP1	5:M:387:U:OP1[4_556]	1.35	0.85
5:M:391:U:C5	6:N:388:U:C2[4_456]	1.35	0.85
3:K:148:A:N7	5:M:385:U:N3[4_556]	1.35	0.85
1:I:65:A:C8	5:M:503:U:OP2[3_556]	1.35	0.85
3:K:13:A:C5	5:M:312:U:O2[2_664]	1.35	0.85
3:K:146:A:O5'	5:M:387:U:OP2[4_556]	1.36	0.84
3:K:13:A:C6	5:M:312:U:O2[2_664]	1.36	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:61:A:O3'	5:M:505:U:O2'[3_556]	1.36	0.84
2:J:170:A:N7	3:K:150:A:N9[4_456]	1.36	0.84
2:J:164:A:N1	6:N:387:U:N3[4_456]	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:C4[4_456]	1.36	0.84
4:L:751:U:O3'	5:M:499:U:C4'[3_556]	1.36	0.84
3:K:143:A:C8	5:M:389:U:C2'[4_556]	1.36	0.84
2:J:169:A:C8	6:N:382:U:N3[4_456]	1.36	0.84
2:J:236:A:OP1	6:N:521:U:O2'[2_666]	1.36	0.84
2:J:164:A:N1	6:N:387:U:O4[4_456]	1.36	0.84
5:M:310:U:O4	6:N:517:U:OP2[2_666]	1.36	0.84
4:L:752:U:C5'	5:M:499:U:O5'[3_556]	1.36	0.84
4:L:757:U:C5'	5:M:509:U:N3[3_556]	1.37	0.83
1:I:66:A:OP2	5:M:502:U:OP2[3_556]	1.37	0.83
4:L:752:U:C4'	5:M:499:U:P[3_556]	1.37	0.83
5:M:390:U:C2	6:N:388:U:C4[4_456]	1.37	0.83
1:I:63:A:OP2	5:M:504:U:N3[3_556]	1.37	0.83
1:I:62:A:O5'	5:M:505:U:O4'[3_556]	1.37	0.83
4:L:757:U:OP1	5:M:509:U:C5[3_556]	1.37	0.83
2:J:46:A:C5	4:L:756:U:N1[3_546]	1.37	0.83
2:J:168:A:O5'	6:N:383:U:O5'[4_456]	1.37	0.83
4:L:756:U:P	5:M:507:U:N3[3_556]	1.37	0.83
1:I:59:A:P	2:J:41:A:O5'[3_556]	1.37	0.83
1:I:64:A:C2	5:M:503:U:P[3_556]	1.37	0.83
2:J:164:A:C3'	6:N:386:U:C3'[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
2:J:43:A:C4	4:L:759:U:C4'[3_546]	1.37	0.83
3:K:144:A:C6	5:M:389:U:C4[4_556]	1.38	0.82
5:M:312:U:O4'	6:N:519:U:O2[2_666]	1.38	0.82
1:I:61:A:C2'	5:M:505:U:C5'[3_556]	1.38	0.82
3:K:13:A:O4'	5:M:313:U:C2'[2_664]	1.38	0.82
5:M:391:U:C2	6:N:388:U:O2'[4_456]	1.38	0.82
2:J:46:A:N1	4:L:756:U:O5'[3_546]	1.38	0.82
2:J:242:A:O2'	3:K:14:A:C2[2_666]	1.38	0.82
4:L:757:U:O3'	5:M:510:U:C5[3_556]	1.38	0.82
1:I:149:A:C2'	4:L:466:U:O5'[3_556]	1.38	0.82
2:J:43:A:N9	4:L:759:U:C2'[3_546]	1.38	0.82
3:K:149:A:OP2	5:M:384:U:O4'[4_556]	1.38	0.82
2:J:48:A:P	4:L:754:U:C4[3_546]	1.38	0.82
2:J:42:A:N3	4:L:759:U:O3'[3_546]	1.38	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:62:A:C4	5:M:504:U:O3'[3_556]	1.38	0.82
2:J:46:A:N3	4:L:756:U:N1[3_546]	1.38	0.82
2:J:45:A:C4	4:L:757:U:C5[3_546]	1.39	0.81
1:I:145:A:C2	1:I:356:A:C1'[3_556]	1.39	0.81
1:I:63:A:O5'	5:M:504:U:N1[3_556]	1.39	0.81
1:I:352:A:C5'	4:L:676:U:O5'[3_546]	1.39	0.81
5:M:391:U:O2	6:N:388:U:C2'[4_456]	1.39	0.81
2:J:242:A:OP1	3:K:16:A:N6[2_666]	1.39	0.81
3:K:148:A:C8	5:M:385:U:C4[4_556]	1.39	0.81
2:J:171:A:N3	3:K:150:A:OP1[4_456]	1.39	0.81
4:L:752:U:OP2	5:M:499:U:O3'[3_556]	1.39	0.81
4:L:757:U:O3'	5:M:510:U:C4[3_556]	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:242:A:C3'	3:K:15:A:C4[2_666]	1.39	0.81
1:I:63:A:C4	5:M:503:U:O3'[3_556]	1.39	0.81
3:K:18:A:O4'	5:M:306:U:OP1[2_664]	1.39	0.81
3:K:149:A:O4'	5:M:383:U:C2[4_556]	1.39	0.81
3:K:147:A:C3'	5:M:385:U:C3'[4_556]	1.40	0.80
1:I:143:A:O3'	4:L:472:U:O4'[3_556]	1.40	0.80
3:K:143:A:C6	5:M:390:U:C6[4_556]	1.40	0.80
2:J:48:A:C5'	4:L:754:U:O4'[3_546]	1.40	0.80
1:I:71:A:C5	2:J:46:A:O3'[3_556]	1.40	0.80
2:J:171:A:P	3:K:151:A:OP2[4_456]	1.40	0.80
3:K:149:A:C1'	5:M:383:U:O4[4_556]	1.40	0.80
1:I:146:A:C4'	1:I:356:A:OP1[3_556]	1.40	0.80
1:I:143:A:C3'	4:L:472:U:C6[3_556]	1.40	0.80
5:M:391:U:O2	6:N:388:U:C4'[4_456]	1.40	0.80
2:J:167:A:OP2	6:N:384:U:C5'[4_456]	1.40	0.80
4:L:469:U:O4	4:L:679:U:C2[3_546]	1.40	0.80
1:I:66:A:OP1	5:M:502:U:OP2[3_556]	1.40	0.80
3:K:13:A:O4'	5:M:313:U:C1'[2_664]	1.40	0.80
2:J:169:A:O2'	3:K:151:A:N6[4_456]	1.40	0.80
1:I:64:A:N3	5:M:503:U:OP1[3_556]	1.40	0.80
2:J:44:A:C1'	4:L:758:U:C2[3_546]	1.41	0.79
5:M:309:U:N3	6:N:517:U:OP1[2_666]	1.41	0.79
2:J:164:A:C2	6:N:387:U:O4[4_456]	1.41	0.79
4:L:751:U:C2'	5:M:499:U:C4'[3_556]	1.41	0.79
2:J:171:A:C4	3:K:150:A:O5'[4_456]	1.41	0.79
1:I:71:A:N1	2:J:47:A:O5'[3_556]	1.41	0.79
2:J:44:A:C2'	4:L:758:U:O2[3_546]	1.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:47:A:C4'	4:L:754:U:O2[3_546]	1.41	0.79
3:K:148:A:C2'	5:M:384:U:C5[4_556]	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
1:I:65:A:C1'	5:M:502:U:C5'[3_556]	1.41	0.79
5:M:390:U:C3'	6:N:389:U:N3[4_456]	1.41	0.79
2:J:169:A:N7	6:N:382:U:N3[4_456]	1.41	0.79
5:M:391:U:OP2	6:N:389:U:O2[4_456]	1.42	0.78
2:J:166:A:O5'	6:N:385:U:OP2[4_456]	1.42	0.78
2:J:43:A:N1	4:L:758:U:O3'[3_546]	1.42	0.78
1:I:61:A:C3'	5:M:505:U:C4'[3_556]	1.42	0.78
4:L:757:U:OP2	5:M:508:U:C4[3_556]	1.42	0.78
2:J:44:A:N9	4:L:758:U:C2[3_546]	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
4:L:756:U:C3'	5:M:508:U:C2[3_556]	1.42	0.78
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
2:J:46:A:C4	4:L:756:U:C2[3_546]	1.42	0.78
2:J:243:A:OP2	3:K:15:A:C2[2_666]	1.43	0.77
2:J:170:A:C5	3:K:150:A:N9[4_456]	1.43	0.77
1:I:71:A:C2	2:J:47:A:C5'[3_556]	1.43	0.77
3:K:143:A:C2	5:M:390:U:C6[4_556]	1.43	0.77
2:J:48:A:N7	4:L:755:U:OP2[3_546]	1.43	0.77
5:M:312:U:OP1	6:N:520:U:C6[2_666]	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:244:A:C5	6:N:517:U:C4'[2_666]	1.43	0.77
2:J:170:A:C8	3:K:150:A:C5[4_456]	1.43	0.77
2:J:168:A:O3'	6:N:382:U:C1'[4_456]	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:168:A:O3'	6:N:382:U:O4'[4_456]	1.43	0.77
2:J:45:A:C5	4:L:757:U:C5[3_546]	1.43	0.77
2:J:163:A:C6	6:N:387:U:O2[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
5:M:309:U:O4	6:N:517:U:P[2_666]	1.44	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:164:A:C6	6:N:387:U:C4[4_456]	1.44	0.76
2:J:163:A:N3	6:N:387:U:O2'[4_456]	1.44	0.76
2:J:43:A:O4'	4:L:760:U:O5'[3_546]	1.44	0.76
4:L:757:U:C4'	5:M:509:U:N3[3_556]	1.44	0.76
2:J:171:A:C2	3:K:149:A:O3'[4_456]	1.44	0.76
1:I:64:A:N3	5:M:502:U:O3'[3_556]	1.44	0.76
3:K:148:A:O5'	5:M:385:U:O5'[4_556]	1.44	0.76
2:J:47:A:N6	4:L:756:U:OP2[3_546]	1.44	0.76
1:I:62:A:OP1	5:M:505:U:C2'[3_556]	1.44	0.76
3:K:147:A:C5	5:M:386:U:O4[4_556]	1.44	0.76
5:M:391:U:O2	6:N:388:U:C3'[4_456]	1.45	0.75
1:I:62:A:OP2	5:M:506:U:OP2[3_556]	1.45	0.75
2:J:169:A:P	6:N:382:U:C1'[4_456]	1.45	0.75
2:J:165:A:P	6:N:386:U:O5'[4_456]	1.45	0.75
2:J:166:A:OP1	6:N:385:U:OP1[4_456]	1.45	0.75
2:J:48:A:C4'	4:L:754:U:C3'[3_546]	1.45	0.75
4:L:758:U:P	5:M:510:U:O4[3_556]	1.45	0.75
3:K:144:A:N6	5:M:389:U:C2[4_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:143:A:C4	4:L:471:U:O4'[3_556]	1.45	0.75
2:J:165:A:C6	6:N:386:U:O4[4_456]	1.45	0.75
4:L:752:U:O4'	5:M:499:U:OP1[3_556]	1.45	0.75
1:I:62:A:C5	5:M:505:U:OP2[3_556]	1.45	0.75
1:I:143:A:N7	4:L:471:U:C4'[3_556]	1.45	0.75
2:J:168:A:C5	6:N:383:U:C4[4_456]	1.45	0.75
2:J:47:A:N9	4:L:755:U:C1'[3_546]	1.45	0.75
1:I:67:A:C2	2:J:45:A:P[3_556]	1.45	0.75
1:I:62:A:OP2	5:M:506:U:P[3_556]	1.46	0.74
2:J:46:A:N3	4:L:756:U:C1'[3_546]	1.46	0.74
5:M:391:U:OP2	6:N:390:U:C5[4_456]	1.46	0.74
2:J:240:A:C5	3:K:12:A:P[2_666]	1.46	0.74
1:I:61:A:C5'	5:M:506:U:OP1[3_556]	1.46	0.74
5:M:391:U:OP2	6:N:389:U:C2[4_456]	1.46	0.74
3:K:147:A:P	5:M:386:U:O5'[4_556]	1.46	0.74
4:L:752:U:O2'	5:M:499:U:OP2[3_556]	1.46	0.74
1:I:63:A:OP2	5:M:505:U:C4[3_556]	1.46	0.74
2:J:47:A:N3	4:L:755:U:O5'[3_546]	1.46	0.74
3:K:144:A:C5	5:M:389:U:C4[4_556]	1.46	0.74
2:J:164:A:O4'	6:N:387:U:C5'[4_456]	1.46	0.74
2:J:45:A:C8	4:L:758:U:O4[3_546]	1.46	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:149:A:P	5:M:384:U:O4'[4_556]	1.46	0.74
2:J:44:A:C4	4:L:758:U:C6[3_546]	1.46	0.74
1:I:63:A:OP2	5:M:505:U:C5[3_556]	1.46	0.74
1:I:146:A:O4'	1:I:356:A:O5'[3_556]	1.47	0.73
1:I:68:A:N1	2:J:45:A:O5'[3_556]	1.47	0.73
2:J:164:A:C2'	6:N:387:U:OP2[4_456]	1.47	0.73
3:K:148:A:OP1	5:M:385:U:O5'[4_556]	1.47	0.73
2:J:43:A:N3	4:L:759:U:C4'[3_546]	1.47	0.73
2:J:169:A:C8	6:N:382:U:O4[4_456]	1.47	0.73
3:K:12:A:C5'	5:M:314:U:N3[2_664]	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
1:I:62:A:C1'	5:M:504:U:C1'[3_556]	1.47	0.73
2:J:244:A:N7	6:N:517:U:C4'[2_666]	1.47	0.73
3:K:12:A:C4'	5:M:314:U:O4[2_664]	1.48	0.72
2:J:171:A:N1	3:K:149:A:O2'[4_456]	1.48	0.72
2:J:167:A:C5	6:N:384:U:C4[4_456]	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
1:I:150:A:OP2	4:L:465:U:C2'[3_556]	1.48	0.72
1:I:67:A:C5	2:J:45:A:OP1[3_556]	1.48	0.72
4:L:756:U:OP1	5:M:507:U:C4[3_556]	1.48	0.72
1:I:144:A:OP1	4:L:472:U:O2'[3_556]	1.48	0.72
4:L:752:U:P	5:M:499:U:O3'[3_556]	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
5:M:390:U:O3'	6:N:390:U:C4[4_456]	1.48	0.72
2:J:167:A:OP2	6:N:384:U:O5'[4_456]	1.49	0.71
1:I:65:A:O4'	5:M:502:U:C3'[3_556]	1.49	0.71
4:L:752:U:C3'	5:M:499:U:OP2[3_556]	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: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
4:L:758:U:OP1	5:M:510:U:C4[3_556]	1.49	0.71
3:K:12:A:N1	5:M:312:U:N1[2_664]	1.49	0.71
2:J:44:A:O4'	4:L:759:U:N1[3_546]	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
3:K:146:A:N6	5:M:387:U:O4[4_556]	1.50	0.70
1:I:62:A:C8	5:M:504:U:O3'[3_556]	1.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:167:A:P	6:N:384:U:OP1[4_456]	1.50	0.70
1:I:143:A:C4'	4:L:472:U:O5'[3_556]	1.50	0.70
2:J:168:A:C8	6:N:383:U:C5[4_456]	1.50	0.70
1:I:71:A:N6	2:J:47:A:P[3_556]	1.50	0.70
1:I:63:A:O4'	5:M:504:U:O4'[3_556]	1.50	0.70
1:I:356:A:C2	4:L:680:U:C2[3_546]	1.50	0.70
2:J:170:A:N7	3:K:150:A:N7[4_456]	1.50	0.70
2:J:164:A:C5'	6:N:387:U:C5'[4_456]	1.50	0.70
1:I:146:A:C2	1:I:356:A:N7[3_556]	1.50	0.70
4:L:469:U:C4	4:L:679:U:C2'[3_546]	1.50	0.70
2:J:169:A:O2'	3:K:151:A:C5[4_456]	1.50	0.70
1:I:62:A:O3'	5:M:504:U:C2[3_556]	1.50	0.70
2:J:165:A:O3'	6:N:386:U:OP2[4_456]	1.50	0.70
4:L:751:U:O3'	5:M:499:U:C2'[3_556]	1.51	0.69
2:J:43:A:O4'	4:L:759:U:C2'[3_546]	1.51	0.69
1:I:65:A:P	5:M:502:U:C4[3_556]	1.51	0.69
3:K:148:A:C2'	5:M:384:U:C6[4_556]	1.51	0.69
5:M:312:U:O5'	6:N:520:U:C4[2_666]	1.51	0.69
2:J:48:A:O4'	4:L:754:U:O2'[3_546]	1.51	0.69
4:L:757:U:C3'	5:M:509:U:N3[3_556]	1.51	0.69
1:I:63:A:C2'	5:M:503:U:N1[3_556]	1.51	0.69
2:J:47:A:N3	4:L:755:U:C5'[3_546]	1.51	0.69
1:I:59:A:OP1	2:J:40:A:C3'[3_556]	1.51	0.69
2:J:169:A:OP2	6:N:382:U:N1[4_456]	1.51	0.69
2:J:45:A:C8	4:L:757:U:N3[3_546]	1.51	0.69
4:L:757:U:O4'	5:M:509:U:O2[3_556]	1.51	0.69
2:J:43:A:O3'	4:L:759:U:O2[3_546]	1.51	0.69
2:J:165:A:C3'	6:N:386:U:OP2[4_456]	1.51	0.69
1:I:62:A:O2'	5:M:504:U:C1'[3_556]	1.51	0.69
4:L:470:U:N3	4:L:680:U:O4[3_546]	1.51	0.69
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:752:U:OP2	5:M:500:U:O5'[3_556]	1.52	0.68
2:J:164:A:C3'	6:N:387:U:P[4_456]	1.52	0.68
2:J:42:A:O2'	4:L:760:U:C5'[3_546]	1.52	0.68
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
4:L:470:U:O4	4:L:679: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
5:M:391:U:O2	6:N:388:U:O2'[4_456]	1.52	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:165:A:OP2	6:N:386:U:O4'[4_456]	1.52	0.68
4:L:752:U:C2'	5:M:499:U:OP2[3_556]	1.52	0.68
5:M:391:U:C6	6:N:389:U:C5[4_456]	1.52	0.68
1:I:67:A:N1	2:J:44:A:C3'[3_556]	1.53	0.67
3:K:144:A:P	5:M:389:U:P[4_556]	1.53	0.67
4:L:752:U:C4'	5:M:499:U:OP2[3_556]	1.53	0.67
2:J:171:A:P	3:K:151:A:P[4_456]	1.53	0.67
1:I:65:A:N9	5:M:502:U:O3'[3_556]	1.53	0.67
2:J:43:A:C4	4:L:759:U:C3'[3_546]	1.53	0.67
1:I:352:A:O5'	4:L:677:U:OP2[3_546]	1.53	0.67
2:J:44:A:O5'	4:L:759:U:N3[3_546]	1.53	0.67
1:I:62:A:O5'	5:M:505:U:C3'[3_556]	1.53	0.67
2:J:47:A:O2'	4:L:754:U:C1'[3_546]	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
1:I:62:A:N7	5:M:505:U:O5'[3_556]	1.53	0.67
3:K:149:A:O5'	5:M:383:U:O2[4_556]	1.53	0.67
2:J:48:A:C3'	4:L:754:U:C3'[3_546]	1.54	0.66
2:J:164:A:O3'	6:N:386:U:O3'[4_456]	1.54	0.66
2:J:45:A:C4	4:L:757:U:C2[3_546]	1.54	0.66
2:J:240:A:C5	3:K:12:A:OP1[2_666]	1.54	0.66
1:I:143:A:C8	4:L:471:U:O4'[3_556]	1.54	0.66
2:J:48:A:C2'	4:L:754:U:C4'[3_546]	1.54	0.66
4:L:752:U:OP2	5:M:500:U:OP1[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:69:A:C6	2:J:46:A:O5'[3_556]	1.54	0.66
1:I:62:A:C8	5:M:505:U:C5'[3_556]	1.54	0.66
4:L:758:U:C4'	5:M:510:U:O2[3_556]	1.54	0.66
3:K:147:A:N6	5:M:386:U:N3[4_556]	1.54	0.66
2:J:44:A:C5'	4:L:759:U:C2[3_546]	1.54	0.66
1:I:352:A:OP2	4:L:677:U:O5'[3_546]	1.54	0.66
1:I:65:A:C2'	5:M:502:U:O5'[3_556]	1.54	0.66
4:L:752:U:O5'	5:M:499:U:C3'[3_556]	1.54	0.66
2:J:45:A:C5	4:L:757:U:C6[3_546]	1.54	0.66
1:I:143:A:O4'	4:L:471:U:O2'[3_556]	1.54	0.66
2:J:240:A:C6	3:K:12:A:O5'[2_666]	1.54	0.66
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
2:J:240:A:N6	3:K:12:A:OP2[2_666]	1.55	0.65
1:I:65:A:C2'	5:M:502:U:C5'[3_556]	1.55	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:N7	3:K:150:A:O5'[4_456]	1.55	0.65
1:I:69:A:C5	2:J:45:A:C3'[3_556]	1.55	0.65
2:J:165:A:OP1	6:N:386:U:C5'[4_456]	1.55	0.65
3:K:148:A:O3'	5:M:384:U:O4'[4_556]	1.55	0.65
2:J:45:A:N7	4:L:758:U:C4[3_546]	1.55	0.65
3:K:144:A:N3	5:M:390:U:O4[4_556]	1.55	0.65
2:J:171:A:C5	3:K:150:A:O5'[4_456]	1.55	0.65
1:I:68:A:N3	2:J:45:A:C5'[3_556]	1.55	0.65
3:K:143:A:C8	5:M:389:U:C3'[4_556]	1.55	0.65
2:J:43:A:P	4:L:761:U:OP2[3_546]	1.55	0.65
3:K:144:A:C8	5:M:389:U:C6[4_556]	1.55	0.65
2:J:168:A:C2'	6:N:382:U:C6[4_456]	1.55	0.65
2:J:164:A:C8	6:N:387:U:C1'[4_456]	1.56	0.64
1:I:64:A:N1	5:M:503:U:OP1[3_556]	1.56	0.64
2:J:170:A:C2'	3:K:151:A:OP2[4_456]	1.56	0.64
2:J:47:A:O2'	4:L:754:U:O2[3_546]	1.56	0.64
2:J:165:A:OP2	6:N:386:U:C3'[4_456]	1.56	0.64
1:I:70:A:N1	2:J:46:A:O3'[3_556]	1.56	0.64
4:L:752:U:P	5:M:500:U:P[3_556]	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
3:K:144:A:C5'	5:M:389:U:OP1[4_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
2:J:46:A:N9	4:L:756:U:O2[3_546]	1.56	0.64
1:I:64:A:OP1	2:J:51:A:C6[3_556]	1.57	0.63
3:K:18:A:C1'	5:M:306:U:OP1[2_664]	1.57	0.63
2:J:164:A:C5	6:N:387:U:C4[4_456]	1.57	0.63
2:J:170:A:P	3:K:151:A:C4[4_456]	1.57	0.63
1:I:149:A:O2'	4:L:466:U:O4'[3_556]	1.57	0.63
2:J:171:A:P	3:K:151:A:OP1[4_456]	1.57	0.63
1:I:356:A:N6	4:L:679:U:C2[3_546]	1.57	0.63
2:J:243:A:C4	6:N:518:U:C5[2_666]	1.57	0.63
3:K:149:A:N7	5:M:384:U:N3[4_556]	1.57	0.63
1:I:67:A:N3	2:J:45:A:OP1[3_556]	1.57	0.63
1:I:61:A:O3'	5:M:505:U:O3'[3_556]	1.57	0.63
4:L:758:U:C5'	5:M:510:U:C4[3_556]	1.57	0.63
2:J:240:A:N6	3:K:12:A:O5'[2_666]	1.57	0.63
2:J:166:A:N6	6:N:385:U:O4[4_456]	1.57	0.63
2:J:165:A:N6	3:K:145:A:N1[4_456]	1.57	0.63
1:I:62:A:N7	5:M:505:U:OP2[3_556]	1.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:48:A:C1'	4:L:755:U:O5'[3_546]	1.57	0.63
3:K:148:A:C3'	5:M:384:U:C6[4_556]	1.58	0.62
5:M:312:U:O5'	6:N:520:U:C6[2_666]	1.58	0.62
2:J:48:A:C4	4:L:755:U:OP2[3_546]	1.58	0.62
2:J:167:A:C6	6:N:384:U:C4[4_456]	1.58	0.62
1:I:67:A:N1	2:J:45:A:OP2[3_556]	1.58	0.62
2:J:164:A:C8	6:N:387:U:O4'[4_456]	1.58	0.62
5:M:390:U:O2	6:N:388:U:O4[4_456]	1.58	0.62
2:J:169:A:N9	3:K:150:A:N1[4_456]	1.58	0.62
2:J:44:A:N9	4:L:759:U:C5[3_546]	1.58	0.62
1:I:69:A:C5	2:J:46:A:OP1[3_556]	1.58	0.62
4:L:752:U:P	5:M:499:U:C2'[3_556]	1.58	0.62
3:K:145:A:C5	5:M:389:U:O4[4_556]	1.58	0.62
1:I:66:A:O5'	5:M:502:U:P[3_556]	1.58	0.62
2:J:169:A:N3	3:K:150:A:C6[4_456]	1.58	0.62
3:K:144:A:N7	5:M:389:U:C5[4_556]	1.59	0.61
1:I:62:A:C5	5:M:504:U:O3'[3_556]	1.59	0.61
3:K:143:A:N1	5:M:390:U:C5[4_556]	1.59	0.61
1:I:150:A:P	4:L:465:U:C3'[3_556]	1.59	0.61
1:I:64:A:C5	5:M:503:U:O5'[3_556]	1.59	0.61
3:K:149:A:C5'	5:M:383:U:N1[4_556]	1.59	0.61
1:I:63:A:C4	5:M:504:U:OP2[3_556]	1.59	0.61
2:J:43:A:C4	4:L:759:U:O5'[3_546]	1.59	0.61
4:L:757:U:C5'	5:M:509:U:C6[3_556]	1.59	0.61
2:J:243:A:P	3:K:15:A:N3[2_666]	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
1:I:146:A:O2'	1:I:357:A:OP2[3_556]	1.59	0.61
2:J:168:A:C5'	6:N:383:U:P[4_456]	1.59	0.61
1:I:146:A:C5	1:I:356:A:N7[3_556]	1.60	0.60
4:L:751:U:C1'	5:M:499:U:C5'[3_556]	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
3:K:144:A:C5	5:M:389:U:C5[4_556]	1.60	0.60
2:J:164:A:C4	6:N:387:U:C4[4_456]	1.60	0.60
2:J:47:A:C1'	4:L:754:U:O2[3_546]	1.60	0.60
3:K:143:A:C4	5:M:389:U:C2'[4_556]	1.60	0.60
2:J:47:A:C1'	4:L:755:U:C1'[3_546]	1.60	0.60
1:I:62:A:C2'	5:M:504:U:C2[3_556]	1.60	0.60
2:J:43:A:C5'	4:L:760:U:C4'[3_546]	1.60	0.60
3:K:147:A:C2	5:M:386:U:O4[4_556]	1.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:163:A:N3	6:N:387:U:C1'[4_456]	1.60	0.60
2:J:47:A:N7	4:L:756:U:C5[3_546]	1.60	0.60
1:I:64:A:OP2	5:M:503:U:C4[3_556]	1.60	0.60
1:I:62:A:C2'	5:M:504:U:C2'[3_556]	1.60	0.60
4:L:751:U:O2'	5:M:498:U:O2'[3_556]	1.60	0.60
2:J:44:A:OP1	4:L:760:U:O2[3_546]	1.60	0.60
2:J:243:A:C5	6:N:517:U:N1[2_666]	1.60	0.60
1:I:70:A:C5	2:J:46:A:C4'[3_556]	1.60	0.60
3:K:147:A:P	5:M:386:U:C5'[4_556]	1.60	0.60
2:J:164:A:C5	6:N:387:U:C6[4_456]	1.61	0.59
2:J:49:A:OP2	4:L:753:U:O3'[3_546]	1.61	0.59
3:K:144:A:C5	5:M:389:U:N3[4_556]	1.61	0.59
2:J:46:A:N7	4:L:756:U:N3[3_546]	1.61	0.59
5:M:311:U:O2	6:N:519:U:O4[2_666]	1.61	0.59
2:J:168:A:N6	3:K:148:A:N6[4_456]	1.61	0.59
2:J:48:A:C2'	4:L:754:U:C3'[3_546]	1.61	0.59
2:J:171:A:C4	3:K:150:A:OP1[4_456]	1.61	0.59
1:I:143:A:C8	4:L:471:U:C4'[3_556]	1.61	0.59
2:J:48:A:C3'	4:L:754:U:O4'[3_546]	1.61	0.59
1:I:63:A:P	5:M:504:U:O2[3_556]	1.61	0.59
2:J:43:A:C8	4:L:760:U:OP2[3_546]	1.61	0.59
1:I:149:A:C5'	4:L:466:U:C5[3_556]	1.61	0.59
3:K:147:A:O4'	5:M:386:U:OP2[4_556]	1.61	0.59
1:I:63:A:N9	5:M:503:U:C2'[3_556]	1.62	0.58
2:J:171:A:O5'	3:K:151:A:OP2[4_456]	1.62	0.58
1:I:150:A:OP2	4:L:465:U:C4'[3_556]	1.62	0.58
2:J:169:A:C2'	3:K:150:A:N1[4_456]	1.62	0.58
2:J:48:A:O4'	4:L:754:U:O3'[3_546]	1.62	0.58
2:J:170:A:N7	3:K:150:A:C8[4_456]	1.62	0.58
2:J:48:A:OP1	4:L:754:U:C6[3_546]	1.62	0.58
1:I:357:A:C6	4:L:679:U:O2[3_546]	1.62	0.58
2:J:167:A:C5	6:N:384:U:O4[4_456]	1.62	0.58
1:I:63:A:C2'	5:M:503:U:O2[3_556]	1.62	0.58
5:M:312:U:C3'	6:N:519:U:O2[2_666]	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
2:J:46:A:N7	4:L:757:U:C5[3_546]	1.62	0.58
2:J:42:A:O3'	4:L:761:U:P[3_546]	1.62	0.58
2:J:47:A:N3	4:L:755:U:C3'[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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:J:168:A:N7	6:N:383:U:N3[4_456]	1.62	0.58
2:J:47:A:C2'	4:L:754:U:N1[3_546]	1.62	0.58
3:K:147:A:O3'	5:M:385:U:C4'[4_556]	1.63	0.57
2:J:167:A:O5'	6:N:384:U:O5'[4_456]	1.63	0.57
1:I:67:A:C2	2:J:44:A:C3'[3_556]	1.63	0.57
2:J:164:A:N7	6:N:387:U:C2[4_456]	1.63	0.57
4:L:758:U:OP2	5:M:509:U:C4[3_556]	1.63	0.57
3:K:17:A:O3'	5:M:305:U:OP1[2_664]	1.63	0.57
2:J:171:A:N9	3:K:150:A:P[4_456]	1.63	0.57
1:I:62:A:N3	5:M:504:U:O5'[3_556]	1.63	0.57
3:K:143:A:C4	5:M:389:U:C3'[4_556]	1.63	0.57
1:I:150:A:OP1	4:L:465:U:C2'[3_556]	1.63	0.57
4:L:763:U:N3	5:M:504:U:OP1[3_556]	1.63	0.57
4:L:756:U:O3'	5:M:508:U:C4[3_556]	1.63	0.57
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
1:I:64:A:C3'	5:M:502:U:C1'[3_556]	1.63	0.57
1:I:356:A:N3	4:L:680:U:C2[3_546]	1.63	0.57
1:I:62:A:C3'	5:M:505:U:C6[3_556]	1.63	0.57
1:I:69:A:N7	2:J:45:A:O3'[3_556]	1.64	0.56
2:J:168:A:O3'	6:N:382:U:C3'[4_456]	1.64	0.56
3:K:147:A:C5	5:M:386:U:C5[4_556]	1.64	0.56
3:K:148:A:C5'	5:M:385:U:P[4_556]	1.64	0.56
1:I:70:A:C2	2:J:46:A:C1'[3_556]	1.64	0.56
2:J:43:A:C6	4:L:759:U:OP2[3_546]	1.64	0.56
4:L:469:U:O4	4:L:679:U:C6[3_546]	1.64	0.56
1:I:70:A:N3	2:J:46:A:O4'[3_556]	1.64	0.56
3:K:149:A:C8	5:M:384:U:N3[4_556]	1.64	0.56
2:J:168:A:C8	6:N:383:U:C4[4_456]	1.64	0.56
2:J:44:A:N1	4:L:758:U:C6[3_546]	1.64	0.56
3:K:147:A:O5'	5:M:386:U:OP2[4_556]	1.64	0.56
1:I:70:A:C2	2:J:46:A:O2'[3_556]	1.64	0.56
3:K:148:A:O3'	5:M:384:U:C6[4_556]	1.64	0.56
2:J:46:A:N3	4:L:756:U:C6[3_546]	1.64	0.56
3:K:12:A:C4	5:M:313:U:C4[2_664]	1.64	0.56
2:J:169:A:N6	3:K:149:A:N6[4_456]	1.64	0.56
1:I:70:A:N9	2:J:46:A:C5'[3_556]	1.64	0.56
1:I:64:A:P	5:M:503:U:C2[3_556]	1.64	0.56
4:L:751:U:C3'	5:M:499:U:O3'[3_556]	1.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:242:A:N9	3:K:14:A:N6[2_666]	1.64	0.56
3:K:13:A:N9	5:M:313:U:O4'[2_664]	1.64	0.56
2:J:164:A:C1'	6:N:387:U:O5'[4_456]	1.64	0.56
2:J:44:A:C4	4:L:758:U:C2[3_546]	1.64	0.56
1:I:146:A:C2	1:I:356:A:C5[3_556]	1.64	0.56
1:I:70:A:N7	2:J:46:A:C5'[3_556]	1.65	0.55
3:K:143:A:O3'	5:M:389:U:OP1[4_556]	1.65	0.55
1:I:65:A:O3'	5:M:502:U:O5'[3_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:758:U:C4'	5:M:510:U:N3[3_556]	1.65	0.55
1:I:64:A:O4'	5:M:502:U:O2[3_556]	1.65	0.55
2:J:44:A:N7	4:L:759:U:C5[3_546]	1.65	0.55
1:I:67:A:N1	2:J:45:A:O5'[3_556]	1.65	0.55
3:K:12:A:O3'	5:M:314:U:C6[2_664]	1.65	0.55
2:J:169:A:O4'	6:N:381:U:O2[4_456]	1.65	0.55
2:J:42:A:C2'	4:L:760:U:OP1[3_546]	1.65	0.55
4:L:758:U:OP1	5:M:510:U:C5[3_556]	1.65	0.55
2:J:168:A:OP2	6:N:383:U:O4'[4_456]	1.65	0.55
1:I:58:A:O3'	2:J:40:A:O3'[3_556]	1.65	0.55
1:I:143:A:O3'	4:L:472:U:C6[3_556]	1.65	0.55
2:J:171:A:C4	3:K:150:A:C5'[4_456]	1.65	0.55
4:L:752:U:OP2	5:M:500:U:OP2[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:C2	2:J:45:A:OP1[3_556]	1.66	0.54
3:K:146:A:N1	5:M:387:U:O4[4_556]	1.66	0.54
4:L:469:U:N3	4:L:679:U:C2'[3_546]	1.66	0.54
1:I:143:A:C4	4:L:471:U:C1'[3_556]	1.66	0.54
3:K:147:A:O3'	5:M:385:U:O3'[4_556]	1.66	0.54
2:J:164:A:N7	6:N:387:U:C6[4_456]	1.66	0.54
1:I:64:A:O5'	5:M:503:U:C5[3_556]	1.66	0.54
1:I:68:A:N7	2:J:45:A:OP1[3_556]	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:505:U:O4'[3_556]	1.66	0.54
1:I:67:A:N3	2:J:44:A:O3'[3_556]	1.66	0.54
3:K:143:A:O3'	5:M:389:U:C5'[4_556]	1.66	0.54
2:J:164:A:N3	6:N:387:U:C5[4_456]	1.66	0.54
2:J:242:A:O4'	3:K:15:A:N6[2_666]	1.66	0.54
1:I:141:A:O2'	1:I:348:A:OP2[3_556]	1.66	0.54
3:K:149:A:N7	5:M:384:U:C4[4_556]	1.66	0.54
1:I:143:A:O4'	4:L:472:U:P[3_556]	1.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:165:A:C5	6:N:386:U:C4[4_456]	1.66	0.54
1:I:356:A:C2	4:L:680:U:C4[3_546]	1.66	0.54
3:K:143:A:N6	5:M:390:U:O4'[4_556]	1.67	0.53
1:I:64:A:C3'	5:M:502:U:O2[3_556]	1.67	0.53
2:J:240:A:N6	3:K:12:A:P[2_666]	1.67	0.53
3:K:142:A:N1	5:M:390:U:C3'[4_556]	1.67	0.53
3:K:143:A:C6	5:M:390:U:O4'[4_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
2:J:244:A:C6	6:N:517:U:C4'[2_666]	1.67	0.53
2:J:48:A:P	4:L:754:U:N1[3_546]	1.67	0.53
5:M:312:U:C1'	6:N:519:U:N3[2_666]	1.67	0.53
3:K:12:A:C2'	5:M:313:U:C2[2_664]	1.67	0.53
2:J:167:A:P	6:N:384:U:O5'[4_456]	1.67	0.53
2:J:48:A:OP2	4:L:754:U:C4[3_546]	1.67	0.53
1:I:149:A:O3'	4:L:465:U:C2'[3_556]	1.67	0.53
1:I:65:A:C3'	5:M:502:U:C5'[3_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
1:I:62:A:O4'	5:M:504:U:C2'[3_556]	1.67	0.53
2:J:169:A:C6	3:K:149:A:C5[4_456]	1.67	0.53
2:J:243:A:OP2	3:K:15:A:N3[2_666]	1.67	0.53
2:J:242:A:O3'	3:K:15:A:C2[2_666]	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
5:M:312:U:OP2	6:N:520:U:O4[2_666]	1.68	0.52
1:I:63:A:C2'	5:M:503:U:C2[3_556]	1.68	0.52
2:J:171:A:N7	3:K:150:A:O4'[4_456]	1.68	0.52
1:I:352:A:O4'	4:L:676:U:OP2[3_546]	1.68	0.52
1:I:64:A:O5'	5:M:503:U:C4[3_556]	1.68	0.52
3:K:145:A:OP2	5:M:388:U:P[4_556]	1.68	0.52
4:L:756:U:O5'	5:M:507:U:N3[3_556]	1.68	0.52
1:I:143:A:C2'	4:L:472:U:O4'[3_556]	1.68	0.52
1:I:63:A:N9	5:M:504:U:O5'[3_556]	1.68	0.52
2:J:47:A:O4'	4:L:754:U:O2[3_546]	1.68	0.52
1:I:62:A:N1	5:M:504:U:OP1[3_556]	1.68	0.52
2:J:169:A:C5	3:K:149:A:C6[4_456]	1.68	0.52
2:J:164:A:N9	6:N:387:U:N1[4_456]	1.68	0.52
1:I:61:A:C5	5:M:505:U:OP1[3_556]	1.68	0.52
1:I:70:A:C2	2:J:46:A:O4'[3_556]	1.68	0.52
4:L:470:U:C2	4:L:680:U:O4[3_546]	1.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:143:A:N7	4:L:471:U:C1'[3_556]	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
1:I:63:A:C2'	5:M:503:U:C2'[3_556]	1.68	0.52
2:J:164:A:C4'	6:N:387:U:C5'[4_456]	1.68	0.52
4:L:751:U:C4'	5:M:499:U:O4'[3_556]	1.69	0.51
1:I:61:A:C4'	5:M:505:U:O3'[3_556]	1.69	0.51
1:I:150:A:O5'	4:L:465:U:O3'[3_556]	1.69	0.51
2:J:242:A:C4	3:K:14:A:N6[2_666]	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
3:K:146:A:C3'	5:M:386:U:O3'[4_556]	1.69	0.51
4:L:758:U:O5'	5:M:510:U:O4[3_556]	1.69	0.51
2:J:43:A:N3	4:L:758:U:C2'[3_546]	1.69	0.51
2:J:242:A:C1'	3:K:14:A:C6[2_666]	1.69	0.51
2:J:45:A:N1	4:L:757:U:C6[3_546]	1.69	0.51
3:K:148:A:N9	5:M:385:U:C5[4_556]	1.69	0.51
3:K:143:A:C1'	5:M:389:U:C3'[4_556]	1.69	0.51
2:J:244:A:N7	6:N:517:U:O3'[2_666]	1.69	0.51
2:J:164:A:N3	6:N:387:U:C4[4_456]	1.69	0.51
1:I:62:A:N3	5:M:504:U:O4'[3_556]	1.69	0.51
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
5:M:312:U:P	6:N:520:U:C6[2_666]	1.70	0.50
2:J:43:A:N3	4:L:759:U:C5'[3_546]	1.70	0.50
1:I:63:A:O2'	5:M:503:U:C1'[3_556]	1.70	0.50
2:J:47:A:C8	4:L:755:U:N3[3_546]	1.70	0.50
2:J:169:A:OP1	6:N:382:U:O4'[4_456]	1.70	0.50
1:I:70:A:C5	2:J:46:A:O5'[3_556]	1.70	0.50
3:K:144:A:OP1	5:M:388:U:O3'[4_556]	1.70	0.50
2:J:243:A:N3	6:N:518:U:C5[2_666]	1.70	0.50
2:J:240:A:OP1	6:N:514:U:P[2_666]	1.70	0.50
1:I:61:A:O3'	5:M:505:U:C4'[3_556]	1.70	0.50
4:L:758:U:P	5:M:510:U:C5[3_556]	1.70	0.50
2:J:169:A:C2'	3:K:151:A:C6[4_456]	1.70	0.50
1:I:64:A:C4	5:M:503:U:OP2[3_556]	1.70	0.50
1:I:143:A:O2'	4:L:472:U:C4'[3_556]	1.70	0.50
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:70:A:C6	2:J:47:A:OP2[3_556]	1.71	0.49
1:I:62:A:N3	5:M:504:U:C3'[3_556]	1.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:71:A:N7	2:J:46:A:O3'[3_556]	1.71	0.49
2:J:170:A:O3'	3:K:151:A:O5'[4_456]	1.71	0.49
2:J:169:A:C2'	3:K:151:A:C5[4_456]	1.71	0.49
2:J:46:A:C4	4:L:756:U:C1'[3_546]	1.71	0.49
1:I:65:A:C5'	5:M:501:U:C2'[3_556]	1.71	0.49
2:J:43:A:O3'	4:L:760:U:N1[3_546]	1.71	0.49
1:I:146:A:C6	1:I:356:A:C5[3_556]	1.71	0.49
2:J:240:A:P	6:N:514:U:OP1[2_666]	1.71	0.49
1:I:70:A:C6	2:J:46:A:O3'[3_556]	1.71	0.49
3:K:147:A:OP2	5:M:386:U:C3'[4_556]	1.72	0.48
2:J:236:A:C3'	6:N:522:U:O2'[2_666]	1.72	0.48
2:J:169:A:C2	3:K:150:A:N6[4_456]	1.72	0.48
2:J:47:A:O3'	4:L:754:U:N1[3_546]	1.72	0.48
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
2:J:171:A:C8	3:K:150:A:C4'[4_456]	1.72	0.48
2:J:243:A:N7	6:N:517:U:C6[2_666]	1.72	0.48
3:K:147:A:N7	5:M:386:U:C5[4_556]	1.72	0.48
1:I:65:A:C8	5:M:502:U:C3'[3_556]	1.72	0.48
2:J:44:A:O4'	4:L:759:U:C1'[3_546]	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
5:M:311:U:O2	6:N:519:U:C5[2_666]	1.72	0.48
1:I:352:A:P	4:L:676:U:C3'[3_546]	1.72	0.48
1:I:69:A:N1	2:J:46:A:P[3_556]	1.72	0.48
2:J:165:A:C5	6:N:386:U:O4[4_456]	1.72	0.48
1:I:352:A:OP1	4:L:676:U:O3'[3_546]	1.72	0.48
2:J:45:A:N9	4:L:757:U:C4[3_546]	1.72	0.48
1:I:65:A:P	5:M:502:U:N1[3_556]	1.72	0.48
2:J:47:A:C2	4:L:755:U:C5'[3_546]	1.73	0.47
1:I:64:A:O5'	5:M:503:U:N3[3_556]	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
1:I:59:A:P	2:J:41:A:OP1[3_556]	1.73	0.47
1:I:146:A:OP2	1:I:355:A:C4'[3_556]	1.73	0.47
5:M:392:U:C6	6:N:388:U:O2'[4_456]	1.73	0.47
1:I:146:A:C1'	1:I:356:A:C5'[3_556]	1.73	0.47
1:I:62:A:N1	5:M:504:U:O5'[3_556]	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:167:A:P	6:N:384:U:P[4_456]	1.73	0.47
1:I:63:A:C4	5:M:504:U:O5'[3_556]	1.73	0.47
5:M:312:U:C6	6:N:519:U:O4[2_666]	1.73	0.47
2:J:45:A:C4	4:L:757:U:N3[3_546]	1.73	0.47
1:I:62:A:C3'	5:M:504:U:C2[3_556]	1.73	0.47
2:J:240:A:N7	3:K:12:A:OP2[2_666]	1.73	0.47
5:M:392:U:C4'	6:N:389:U:OP1[4_456]	1.73	0.47
2:J:166:A:N6	6:N:386:U:O4[4_456]	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:63:A:O3'	5:M:503:U:N3[3_556]	1.73	0.47
2:J:166:A:N1	6:N:385:U:O4[4_456]	1.73	0.47
1:I:61:A:O2'	5:M:505:U:C4'[3_556]	1.73	0.47
2:J:168:A:O2'	6:N:382:U:C6[4_456]	1.73	0.47
1:I:142:A:C4	4:L:471:U:O3'[3_556]	1.74	0.46
3:K:12:A:N6	5:M:312:U:N3[2_664]	1.74	0.46
2:J:168:A:OP2	6:N:383:U:C5'[4_456]	1.74	0.46
1:I:143:A:O4'	4:L:471:U:C2'[3_556]	1.74	0.46
4:L:469:U:O4'	4:L:679:U:O3'[3_546]	1.74	0.46
2:J:42:A:C2	4:L:759:U:C5'[3_546]	1.74	0.46
1:I:63:A:N3	5:M:503:U:C4'[3_556]	1.74	0.46
3:K:13:A:O4'	5:M:313:U:O4'[2_664]	1.74	0.46
1:I:63:A:N3	5:M:504:U:P[3_556]	1.74	0.46
1:I:145:A:N6	1:I:355:A:C2[3_556]	1.74	0.46
3:K:12:A:C3'	5:M:314:U:C5[2_664]	1.74	0.46
2:J:163:A:O2'	6:N:387:U:C4'[4_456]	1.74	0.46
2:J:43:A:N9	4:L:759:U:O3'[3_546]	1.74	0.46
3:K:13:A:C8	5:M:313:U:C1'[2_664]	1.74	0.46
1:I:356:A:C6	4:L:679:U:N3[3_546]	1.74	0.46
2:J:240:A:C5'	6:N:514:U:OP2[2_666]	1.75	0.45
2:J:236:A:O3'	6:N:522:U:C2'[2_666]	1.75	0.45
2:J:165:A:N1	3:K:145:A:N6[4_456]	1.75	0.45
2:J:43:A:C2	4:L:759:U:O5'[3_546]	1.75	0.45
2:J:244:A:C8	6:N:517:U:C2'[2_666]	1.75	0.45
4:L:469:U:O2'	4:L:680:U:OP2[3_546]	1.75	0.45
3:K:149:A:N9	5:M:384:U:O4[4_556]	1.75	0.45
1:I:62:A:O5'	5:M:505:U:C4'[3_556]	1.75	0.45
3:K:143:A:C3'	5:M:389:U:O5'[4_556]	1.75	0.45
1:I:64:A:N3	5:M:503:U:OP2[3_556]	1.75	0.45
5:M:311:U:O2	6:N:519:U:C4[2_666]	1.75	0.45
2:J:171:A:N9	3:K:150:A:OP1[4_456]	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:756:U:C5'	5:M:507:U:O2[3_556]	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
4:L:758:U:C4'	5:M:510:U:C2[3_556]	1.75	0.45
3:K:146:A:N6	5:M:388:U:O4[4_556]	1.76	0.44
2:J:44:A:C8	4:L:759:U:N1[3_546]	1.76	0.44
2:J:167:A:C5'	6:N:384:U:P[4_456]	1.76	0.44
2:J:236:A:OP1	6:N:522:U:C5'[2_666]	1.76	0.44
2:J:164:A:N9	6:N:387:U:C5[4_456]	1.76	0.44
2:J:244:A:N6	6:N:517:U:C4'[2_666]	1.76	0.44
1:I:69:A:C4	2:J:45:A:C3'[3_556]	1.76	0.44
3:K:146:A:O3'	5:M:386:U:O3'[4_556]	1.76	0.44
2:J:169:A:OP2	6:N:382:U:O4'[4_456]	1.76	0.44
3:K:18:A:O4'	5:M:305:U:O3'[2_664]	1.76	0.44
4:L:751:U:C3'	5:M:499:U:C5'[3_556]	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:165:A:N6	3:K:145:A:C6[4_456]	1.76	0.44
2:J:167:A:N6	6:N:384:U:N3[4_456]	1.76	0.44
2:J:42:A:C4	4:L:760:U:OP1[3_546]	1.76	0.44
3:K:18:A:O4'	5:M:306:U:P[2_664]	1.76	0.44
1:I:62:A:O5'	5:M:505:U:N1[3_556]	1.76	0.44
2:J:167:A:C2	6:N:384:U:O4[4_456]	1.76	0.44
1:I:59:A:P	2:J:41:A:C5'[3_556]	1.76	0.44
3:K:147:A:OP2	5:M:386:U:O5'[4_556]	1.76	0.44
2:J:168:A:O3'	6:N:382:U:C4'[4_456]	1.76	0.44
1:I:69:A:N9	2:J:45:A:O3'[3_556]	1.76	0.44
1:I:63:A:C2	5:M:503:U:C3'[3_556]	1.76	0.44
2:J:43:A:C4	4:L:759:U:O4'[3_546]	1.76	0.44
1:I:145:A:N3	1:I:356:A:O4'[3_556]	1.77	0.43
1:I:143:A:C5	4:L:471:U:C4'[3_556]	1.77	0.43
4:L:469:U:O4'	4:L:680:U:P[3_546]	1.77	0.43
1:I:65:A:O5'	5:M:502:U:N1[3_556]	1.77	0.43
2:J:164:A:C4	6:N:387:U:N1[4_456]	1.77	0.43
2:J:48:A:C1'	4:L:755:U:C5'[3_546]	1.77	0.43
5:M:391:U:P	6:N:390:U:O4[4_456]	1.77	0.43
2:J:43:A:O5'	4:L:760:U:O5'[3_546]	1.77	0.43
4:L:758:U:O4'	5:M:510:U:O2[3_556]	1.77	0.43
2:J:239:A:N6	3:K:11:A:O3'[2_666]	1.77	0.43
2:J:48:A:C8	4:L:755:U:O5'[3_546]	1.77	0.43
2:J:44:A:N3	4:L:758:U:C1'[3_546]	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:391:U:C1'	6:N:388:U:C3'[4_456]	1.77	0.43
2:J:43:A:N1	4:L:758:U:C2'[3_546]	1.77	0.43
4:L:757:U:OP2	5:M:508:U:N3[3_556]	1.77	0.43
5:M:390:U:O2	6:N:388:U:C5[4_456]	1.77	0.43
2:J:171:A:C1'	3:K:150:A:OP1[4_456]	1.77	0.43
3:K:149:A:C3'	5:M:383:U:O2[4_556]	1.77	0.43
1:I:62:A:O2'	5:M:504:U:N1[3_556]	1.77	0.43
2:J:43:A:N6	4:L:759:U:OP1[3_546]	1.78	0.42
2:J:45:A:N7	4:L:758:U:O4[3_546]	1.78	0.42
2:J:170:A:OP1	3:K:151:A:O2'[4_456]	1.78	0.42
1:I:63:A:OP1	2:J:49:A:N1[3_556]	1.78	0.42
2:J:164:A:P	6:N:386:U:O2'[4_456]	1.78	0.42
1:I:64:A:O5'	5:M:503:U:C6[3_556]	1.78	0.42
1:I:150:A:N7	4:L:466:U:OP1[3_556]	1.78	0.42
2:J:43:A:N9	4:L:759:U:C4'[3_546]	1.78	0.42
1:I:65:A:P	5:M:502:U:N3[3_556]	1.78	0.42
2:J:169:A:N7	6:N:382:U:O4[4_456]	1.78	0.42
2:J:164:A:N6	6:N:387:U:N3[4_456]	1.78	0.42
1:I:62:A:C2'	5:M:504:U:O2[3_556]	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
1:I:149:A:O2'	4:L:466:U:C4'[3_556]	1.78	0.42
3:K:17:A:O2'	5:M:305:U:C3'[2_664]	1.78	0.42
1:I:352:A:P	4:L:676:U:O3'[3_546]	1.78	0.42
3:K:143:A:O4'	5:M:389:U:O3'[4_556]	1.78	0.42
2:J:163:A:N9	6:N:387:U:O2'[4_456]	1.78	0.42
2:J:45:A:C4	4:L:757:U:C4[3_546]	1.78	0.42
5:M:391:U:OP2	6:N:390:U:C6[4_456]	1.78	0.42
1:I:59:A:OP1	2:J:41:A:OP2[3_556]	1.78	0.42
5:M:391:U:C3'	6:N:389:U:O5'[4_456]	1.78	0.42
3:K:148:A:N9	5:M:385:U:C4[4_556]	1.78	0.42
2:J:169:A:N7	6:N:382:U:C4[4_456]	1.79	0.41
2:J:42:A:C3'	4:L:761:U:OP2[3_546]	1.79	0.41
1:I:141:A:O3'	1:I:349:A:OP2[3_556]	1.79	0.41
1:I:69:A:C5	2:J:46:A:OP2[3_556]	1.79	0.41
4:L:751:U:C5'	5:M:499:U:O2'[3_556]	1.79	0.41
2:J:164:A:O3'	6:N:387:U:P[4_456]	1.79	0.41
1:I:64:A:P	5:M:503:U:C4[3_556]	1.79	0.41
4:L:757:U:P	5:M:508:U:C4[3_556]	1.79	0.41
2:J:237:A:OP2	6:N:522:U:O2'[2_666]	1.79	0.41
2:J:48:A:O3'	4:L:754:U:O4'[3_546]	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:757:U:C5'	5:M:509:U:C4[3_556]	1.79	0.41
2:J:170:A:C6	3:K:150:A:N7[4_456]	1.79	0.41
2:J:48:A:OP1	4:L:753:U:C2[3_546]	1.79	0.41
2:J:44:A:C2	4:L:757:U:C2'[3_546]	1.79	0.41
1:I:143:A:C4'	4:L:472:U:C6[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:71:A:C5	2:J:47:A:OP1[3_556]	1.79	0.41
3:K:144:A:O5'	5:M:389:U:O5'[4_556]	1.79	0.41
3:K:12:A:C6	5:M:312:U:N3[2_664]	1.79	0.41
2:J:47:A:C1'	4:L:755:U:C6[3_546]	1.79	0.41
1:I:69:A:C6	2:J:45:A:O3'[3_556]	1.79	0.41
2:J:168:A:O3'	6:N:382:U:N1[4_456]	1.80	0.40
5:M:391:U:C6	6:N:388:U:O2[4_456]	1.80	0.40
1:I:65:A:C4'	5:M:502:U:O4'[3_556]	1.80	0.40
1:I:64:A:N9	5:M:502:U:C2'[3_556]	1.80	0.40
2:J:43:A:C3'	4:L:759:U:O2[3_546]	1.80	0.40
2:J:170:A:O3'	3:K:151:A:OP2[4_456]	1.80	0.40
1:I:149:A:OP1	4:L:465:U:C6[3_556]	1.80	0.40
2:J:170:A:O4'	3:K:151:A:N7[4_456]	1.80	0.40
5:M:392:U:O5'	6:N:389:U:P[4_456]	1.80	0.40
2:J:44:A:N7	4:L:759:U:C6[3_546]	1.80	0.40
2:J:165:A:N7	6:N:386:U:N3[4_456]	1.80	0.40
2:J:49:A:OP2	4:L:753:U:C3'[3_546]	1.80	0.40
3:K:147:A:C6	5:M:386:U:N3[4_556]	1.80	0.40
2:J:242:A:C2	6:N:518:U:C4[2_666]	1.80	0.40
2:J:168:A:OP1	6:N:383:U:P[4_456]	1.80	0.40
1:I:62:A:O2'	5:M:504:U:O2[3_556]	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
3:K:145:A:C6	5:M:389:U:O4[4_556]	1.80	0.40
2:J:48:A:P	4:L:754:U:N3[3_546]	1.80	0.40
2:J:46:A:C6	4:L:756:U:C6[3_546]	1.81	0.39
4:L:756:U:C4'	5:M:508:U:C2[3_556]	1.81	0.39
1:I:62:A:OP2	5:M:505:U:C3'[3_556]	1.81	0.39
3:K:148:A:N7	5:M:385:U:O4[4_556]	1.81	0.39
1:I:65:A:C4'	5:M:501:U:O3'[3_556]	1.81	0.39
2:J:44:A:N3	4:L:758:U:C2[3_546]	1.81	0.39
2:J:168:A:N3	6:N:383:U:O4[4_456]	1.81	0.39
2:J:45:A:O4'	4:L:757:U:O2[3_546]	1.81	0.39
2:J:169:A:C1'	3:K:150:A:N1[4_456]	1.81	0.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:43:A:C2	4:L:759:U:C5'[3_546]	1.81	0.39
1:I:62:A:C4	5:M:505:U:P[3_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
2:J:168:A:N9	6:N:383:U:O4[4_456]	1.81	0.39
1:I:149:A:P	4:L:465:U:C5[3_556]	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:171:A:C4	3:K:149:A:O3'[4_456]	1.81	0.39
1:I:67:A:N1	2:J:45:A:OP1[3_556]	1.81	0.39
2:J:168:A:C2'	6:N:382:U:C5[4_456]	1.81	0.39
3:K:145:A:OP1	5:M:388:U:P[4_556]	1.81	0.39
3:K:17:A:O2'	5:M:305:U:O3'[2_664]	1.81	0.39
1:I:62:A:C5	5:M:504:U:C3'[3_556]	1.81	0.39
2:J:165:A:N7	6:N:386:U:C4[4_456]	1.81	0.39
3:K:12:A:C4	5:M:313:U:C6[2_664]	1.81	0.39
3:K:145:A:C6	5:M:388:U:O4[4_556]	1.81	0.39
1:I:63:A:O5'	5:M:504:U:C6[3_556]	1.81	0.39
5:M:391:U:C4	6:N:388:U:C2[4_456]	1.81	0.39
2:J:43:A:O4'	4:L:760:U:C4'[3_546]	1.81	0.39
2:J:171:A:C8	3:K:150:A:C3'[4_456]	1.81	0.39
2:J:45:A:N9	4:L:757:U:N1[3_546]	1.81	0.39
3:K:142:A:N6	5:M:390:U:C4'[4_556]	1.81	0.39
3:K:143:A:C5	5:M:389:U:O2'[4_556]	1.81	0.39
2:J:170:A:C8	3:K:150:A:N9[4_456]	1.82	0.38
4:L:469:U:O2	4:L:680:U:C6[3_546]	1.82	0.38
2:J:168:A:C4	6:N:383:U:C4[4_456]	1.82	0.38
4:L:751:U:O3'	5:M:499:U:O4'[3_556]	1.82	0.38
2:J:170:A:C4	3:K:150:A:N7[4_456]	1.82	0.38
3:K:143:A:N6	5:M:390:U:C1'[4_556]	1.82	0.38
2:J:168:A:C5'	6:N:382:U:O3'[4_456]	1.82	0.38
1:I:64:A:N9	5:M:502:U:O2'[3_556]	1.82	0.38
3:K:12:A:N1	5:M:312:U:C2[2_664]	1.82	0.38
4:L:756:U:OP1	5:M:507:U:C5[3_556]	1.82	0.38
2:J:44:A:C2'	4:L:758:U:N3[3_546]	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
1:I:70:A:C8	2:J:46:A:C5'[3_556]	1.82	0.38
2:J:242:A:N3	6:N:518:U:O4[2_666]	1.82	0.38
1:I:63:A:O5'	5:M:504:U:C4[3_556]	1.82	0.38
2:J:242:A:N7	6:N:517:U:O4[2_666]	1.82	0.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:145:A:O5'	5:M:388:U:OP2[4_556]	1.82	0.38
3:K:144:A:C6	5:M:389:U:C2[4_556]	1.82	0.38
3:K:143:A:C4	5:M:390:U:O5'[4_556]	1.82	0.38
2:J:43:A:C4'	4:L:760:U:C3'[3_546]	1.82	0.38
4:L:757:U:P	5:M:509:U:C5[3_556]	1.82	0.38
1:I:69:A:N6	2:J:46:A:P[3_556]	1.82	0.38
2:J:244:A:N9	6:N:517:U:O3'[2_666]	1.82	0.38
1:I:63:A:C1'	5:M:503:U:O2'[3_556]	1.82	0.38
1:I:65:A:OP1	5:M:502:U:C6[3_556]	1.82	0.38
2:J:242:A:O4'	3:K:15:A:N7[2_666]	1.82	0.38
2:J:164:A:C3'	6:N:387:U:OP2[4_456]	1.82	0.38
2:J:47:A:C8	4:L:755:U:C6[3_546]	1.82	0.38
2:J:242:A:C8	3:K:15:A:N6[2_666]	1.82	0.38
4:L:757:U:C5'	5:M:509:U:C5[3_556]	1.82	0.38
2:J:242:A:OP1	3:K:16:A:C6[2_666]	1.83	0.37
2:J:45:A:C6	4:L:757:U:C6[3_546]	1.83	0.37
1:I:63:A:OP1	5:M:504:U:N3[3_556]	1.83	0.37
3:K:144:A:OP2	5:M:388:U:C2'[4_556]	1.83	0.37
2:J:168:A:O3'	6:N:382:U:C2'[4_456]	1.83	0.37
3:K:148:A:N3	5:M:385:U:O4[4_556]	1.83	0.37
5:M:391:U:C2	6:N:388:U:C3'[4_456]	1.83	0.37
2:J:47:A:N9	4:L:755:U:C2[3_546]	1.83	0.37
1:I:146:A:C2'	1:I:356:A:O5'[3_556]	1.83	0.37
2:J:47:A:C2	4:L:755:U:C3'[3_546]	1.83	0.37
5:M:391:U:C1'	6:N:388:U:C2'[4_456]	1.83	0.37
1:I:62:A:N1	5:M:504:U:C5'[3_556]	1.83	0.37
4:L:757:U:C3'	5:M:509:U:O2[3_556]	1.83	0.37
4:L:752:U:O3'	5:M:499:U:OP2[3_556]	1.83	0.37
3:K:143:A:C2'	5:M:389:U:O5'[4_556]	1.83	0.37
2:J:47:A:C4	4:L:755:U:C3'[3_546]	1.83	0.37
1:I:146:A:N1	1:I:356:A:C6[3_556]	1.83	0.37
4:L:756:U:C2'	5:M:508:U:O2[3_556]	1.83	0.37
2:J:164:A:N7	6:N:387:U:C1'[4_456]	1.83	0.37
1:I:62:A:P	5:M:505:U:O2'[3_556]	1.83	0.37
1:I:143:A:C5	4:L:471:U:C1'[3_556]	1.83	0.37
1:I:69:A:N3	2:J:45:A:C2'[3_556]	1.83	0.37
3:K:12:A:N6	5:M:312:U:C6[2_664]	1.83	0.37
2:J:236:A:C5'	6:N:522:U:C4'[2_666]	1.83	0.37
4:L:468:U:O2	4:L:679:U:O2'[3_546]	1.84	0.36
1:I:146:A:N6	1:I:355:A:C5[3_556]	1.84	0.36
3:K:149:A:N9	5:M:383:U:O4[4_556]	1.84	0.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:169:A:OP2	6:N:382:U:C2'[4_456]	1.84	0.36
1:I:68:A:C5	2:J:45:A:OP1[3_556]	1.84	0.36
2:J:242:A:C2'	3:K:14:A:N1[2_666]	1.84	0.36
2:J:170:A:C5'	3:K:151:A:N9[4_456]	1.84	0.36
1:I:70:A:N1	2:J:46:A:C4'[3_556]	1.84	0.36
2:J:46:A:N3	4:L:755:U:O2[3_546]	1.84	0.36
1:I:146:A:C8	1:I:356:A:O5'[3_556]	1.84	0.36
2:J:170:A:O5'	3:K:151:A:N7[4_456]	1.84	0.36
1:I:62:A:N9	5:M:505:U:O5'[3_556]	1.84	0.36
1:I:146:A:N3	1:I:356:A:C8[3_556]	1.84	0.36
5:M:312:U:OP1	6:N:520:U:C5[2_666]	1.84	0.36
1:I:352:A:OP2	4:L:677:U:OP1[3_546]	1.84	0.36
2:J:169:A:N9	3:K:150:A:C6[4_456]	1.84	0.36
2:J:44:A:N9	4:L:758:U:O2[3_546]	1.84	0.36
4:L:757:U:O3'	5:M:510:U:N3[3_556]	1.84	0.36
2:J:164:A:O3'	6:N:387:U:OP2[4_456]	1.84	0.36
5:M:391:U:O2	6:N:388:U:O4'[4_456]	1.84	0.36
3:K:144:A:OP2	5:M:388:U:O3'[4_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:69:A:C6	2:J:45:A:C3'[3_556]	1.85	0.35
2:J:47:A:C1'	4:L:755:U:O4'[3_546]	1.85	0.35
2:J:169:A:C5	3:K:149:A:N1[4_456]	1.85	0.35
3:K:148:A:C6	5:M:385:U:O4[4_556]	1.85	0.35
2:J:43:A:N7	4:L:760:U:OP2[3_546]	1.85	0.35
1:I:62:A:C8	5:M:504:U:C3'[3_556]	1.85	0.35
3:K:143:A:N9	5:M:390:U:P[4_556]	1.85	0.35
2:J:242:A:C3'	3:K:15:A:C2[2_666]	1.85	0.35
5:M:312:U:C5'	6:N:520:U:C6[2_666]	1.85	0.35
2:J:168:A:C6	3:K:148:A:C6[4_456]	1.85	0.35
1:I:149:A:OP1	4:L:465:U:C4[3_556]	1.85	0.35
1:I:71:A:C6	2:J:47:A:O5'[3_556]	1.85	0.35
5:M:390:U:C2	6:N:388:U:O4[4_456]	1.85	0.35
1:I:66:A:OP1	5:M:502:U:P[3_556]	1.85	0.35
2:J:165:A:P	6:N:386:U:C4'[4_456]	1.85	0.35
2:J:44:A:OP1	4:L:760:U:C1'[3_546]	1.85	0.35
1:I:149:A:O2'	4:L:466:U:O5'[3_556]	1.85	0.35
3:K:146:A:C5	5:M:387:U:O4[4_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
2:J:242:A:O5'	3:K:15:A:N6[2_666]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:47:A:C4	4:L:755:U:C6[3_546]	1.86	0.34
2:J:168:A:N9	6:N:383:U:C5[4_456]	1.86	0.34
1:I:63:A:C8	5:M:504:U:O5'[3_556]	1.86	0.34
2:J:167:A:N1	3:K:147:A:N6[4_456]	1.86	0.34
2:J:43:A:C2'	4:L:759:U:O2[3_546]	1.86	0.34
2:J:170:A:N6	3:K:149:A:N9[4_456]	1.86	0.34
4:L:757:U:C3'	5:M:509:U:C2[3_556]	1.86	0.34
1:I:64:A:C5'	5:M:502:U:C2[3_556]	1.86	0.34
1:I:63:A:C4	5:M:503:U:C2'[3_556]	1.86	0.34
2:J:165:A:C6	3:K:145:A:N6[4_456]	1.86	0.34
2:J:242:A:O3'	3:K:15:A:N9[2_666]	1.86	0.34
2:J:46:A:C8	4:L:756:U:C4[3_546]	1.86	0.34
2:J:243:A:C8	6:N:517:U:N1[2_666]	1.86	0.34
5:M:312:U:C6	6:N:519:U:N3[2_666]	1.86	0.34
2:J:48:A:N9	4:L:755:U:OP1[3_546]	1.86	0.34
1:I:66:A:C5'	5:M:502:U:P[3_556]	1.86	0.34
1:I:63:A:C3'	5:M:503:U:N3[3_556]	1.86	0.34
1:I:62:A:C5	5:M:505:U:OP1[3_556]	1.86	0.34
1:I:64:A:OP1	2:J:51:A:C2[3_556]	1.87	0.33
3:K:148:A:C5	5:M:385:U:N3[4_556]	1.87	0.33
2:J:47:A:C4'	4:L:754:U:C2[3_546]	1.87	0.33
5:M:312:U:C5'	6:N:520:U:C5[2_666]	1.87	0.33
2:J:46:A:C5	4:L:756:U:C5[3_546]	1.87	0.33
1:I:65:A:C2'	5:M:502:U:P[3_556]	1.87	0.33
2:J:242:A:O2'	3:K:14:A:N1[2_666]	1.87	0.33
4:L:757:U:O3'	5:M:510:U:C6[3_556]	1.87	0.33
3:K:144:A:C2	5:M:390:U:C4[4_556]	1.87	0.33
1:I:62:A:OP1	5:M:506:U:O5'[3_556]	1.87	0.33
3:K:149:A:O4'	5:M:383:U:C5[4_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:C8	4:L:756:U:O2[3_546]	1.87	0.33
3:K:147:A:C4	5:M:386:U:O4[4_556]	1.87	0.33
2:J:47:A:C4	4:L:755:U:N1[3_546]	1.87	0.33
2:J:243:A:N7	6:N:517:U:C4[2_666]	1.87	0.33
4:L:752:U:C2'	5:M:499:U:OP1[3_556]	1.87	0.33
3:K:143:A:C6	5:M:390:U:N1[4_556]	1.87	0.33
2:J:46:A:N7	4:L:756:U:C2[3_546]	1.87	0.33
1:I:65:A:O3'	5:M:502:U:OP2[3_556]	1.87	0.33
2:J:163:A:C2	6:N:387:U:C2'[4_456]	1.87	0.33
2:J:169:A:P	6:N:382:U:N1[4_456]	1.88	0.32
1:I:63:A:C6	5:M:504:U:P[3_556]	1.88	0.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:144:A:P	4:L:472:U:O2'[3_556]	1.88	0.32
4:L:756:U:O3'	5:M:508:U:N1[3_556]	1.88	0.32
3:K:12:A:O4'	5:M:314:U:C4[2_664]	1.88	0.32
2:J:46:A:C2	4:L:756:U:C6[3_546]	1.88	0.32
5:M:391:U:O2	6:N:388:U:C1'[4_456]	1.88	0.32
2:J:47:A:C3'	4:L:754:U:N1[3_546]	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
3:K:147:A:C3'	5:M:385:U:O3'[4_556]	1.88	0.32
3:K:142:A:N1	5:M:390:U:O4'[4_556]	1.88	0.32
2:J:169:A:C6	3:K:149:A:N1[4_456]	1.88	0.32
1:I:62:A:N9	5:M:505:U:P[3_556]	1.88	0.32
3:K:145:A:P	5:M:388:U:P[4_556]	1.88	0.32
1:I:63:A:C5'	5:M:504:U:N1[3_556]	1.88	0.32
1:I:69:A:N7	2:J:46:A:OP1[3_556]	1.88	0.32
2:J:44:A:P	4:L:760:U:C5[3_546]	1.88	0.32
3:K:149:A:C3'	5:M:383:U:N3[4_556]	1.88	0.32
1:I:143:A:C5'	4:L:472:U:C6[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
4:L:751:U:O3'	5:M:499:U:C1'[3_556]	1.88	0.32
2:J:167:A:O3'	6:N:383:U:O5'[4_456]	1.88	0.32
4:L:755:U:O3'	5:M:507:U:C2[3_556]	1.88	0.32
2:J:242:A:O2'	3:K:14:A:N3[2_666]	1.88	0.32
1:I:63:A:N3	5:M:503:U:C2'[3_556]	1.88	0.32
1:I:62:A:O2'	5:M:504:U:C2[3_556]	1.89	0.31
2:J:44:A:C2	4:L:758:U:N1[3_546]	1.89	0.31
4:L:758:U:OP2	5:M:509:U:N3[3_556]	1.89	0.31
3:K:143:A:N3	5:M:390:U:OP2[4_556]	1.89	0.31
2:J:43:A:C8	4:L:759:U:O3'[3_546]	1.89	0.31
2:J:165:A:OP2	6:N:386:U:O5'[4_456]	1.89	0.31
1:I:64:A:C8	5:M:503:U:O5'[3_556]	1.89	0.31
2:J:169:A:N9	3:K:150:A:N6[4_456]	1.89	0.31
3:K:144:A:N6	5:M:389:U:O2[4_556]	1.89	0.31
1:I:144:A:P	4:L:472:U:O4'[3_556]	1.89	0.31
1:I:65:A:OP1	5:M:502:U:O4[3_556]	1.89	0.31
2:J:48:A:O5'	4:L:754:U:C1'[3_546]	1.89	0.31
1:I:62:A:C1'	5:M:504:U:C3'[3_556]	1.89	0.31
2:J:45:A:N9	4:L:757:U:O2[3_546]	1.89	0.31
2:J:169:A:N6	3:K:149:A:N1[4_456]	1.89	0.31
1:I:351:A:C4'	4:L:677:U:OP1[3_546]	1.89	0.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:147:A:P	5:M:386:U:OP1[4_556]	1.89	0.31
2:J:48:A:OP1	4:L:753:U:O2[3_546]	1.89	0.31
3:K:142:A:C2	5:M:390:U:C4'[4_556]	1.89	0.31
1:I:64:A:O5'	5:M:503:U:N1[3_556]	1.89	0.31
4:L:757:U:O5'	5:M:509:U:C5[3_556]	1.89	0.31
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:C5[3_556]	1.90	0.30
2:J:42:A:C4	4:L:759:U:O3'[3_546]	1.90	0.30
1:I:69:A:C2	2:J:46:A:C5'[3_556]	1.90	0.30
2:J:170:A:N1	3:K:149:A:C2'[4_456]	1.90	0.30
2:J:42:A:C2'	4:L:760:U:C5[3_546]	1.90	0.30
2:J:242:A:O4'	3:K:15:A:C5[2_666]	1.90	0.30
3:K:143:A:C1'	5:M:390:U:P[4_556]	1.90	0.30
1:I:66:A:C4'	5:M:502:U:OP1[3_556]	1.90	0.30
2:J:243:A:C2	6:N:518:U:C6[2_666]	1.90	0.30
1:I:63:A:C3'	5:M:503:U:N1[3_556]	1.90	0.30
4:L:752:U:P	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
2:J:237:A:P	6:N:522:U:O2'[2_666]	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
2:J:168:A:OP2	6:N:383:U:O5'[4_456]	1.90	0.30
3:K:142:A:C6	5:M:390:U:C5'[4_556]	1.90	0.30
4:L:752:U:O5'	5:M:500:U:OP2[3_556]	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
3:K:147:A:C4	5:M:386:U:C5[4_556]	1.90	0.30
3:K:144:A:C5	5:M:389:U:C6[4_556]	1.90	0.30
2:J:43:A:C2'	4:L:759:U:N1[3_546]	1.90	0.30
2:J:49:A:OP1	4:L:753:U:C2'[3_546]	1.90	0.30
2:J:47:A:N7	4:L:756:U:C6[3_546]	1.90	0.30
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:164:A:OP2	6:N:386:U:O2'[4_456]	1.91	0.29
3:K:147:A:C8	5:M:386:U:C5[4_556]	1.91	0.29
2:J:170:A:C8	3:K:150:A:N3[4_456]	1.91	0.29
2:J:167:A:C3'	6:N:384:U:OP2[4_456]	1.91	0.29
3:K:143:A:C4	5:M:389:U:O3'[4_556]	1.91	0.29
1:I:68:A:C4	2:J:45:A:C5'[3_556]	1.91	0.29
2:J:48:A:C5'	4:L:754:U:C2'[3_546]	1.91	0.29
3:K:13:A:N9	5:M:313:U:C1'[2_664]	1.91	0.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:145:A:OP2	5:M:388:U:C5'[4_556]	1.91	0.29
2:J:42:A:C2'	4:L:760:U:P[3_546]	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
2:J:44:A:C2	4:L:758:U:C5[3_546]	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:164:A:O3'	6:N:386:U:C3'[4_456]	1.91	0.29
2:J:168:A:C3'	6:N:382:U:N1[4_456]	1.91	0.29
2:J:47:A:O3'	4:L:754:U:C4[3_546]	1.91	0.29
1:I:71:A:N3	2:J:46:A:O2'[3_556]	1.91	0.29
2:J:168:A:N9	6:N:383:U:C4[4_456]	1.91	0.29
2:J:166:A:N6	3:K:146:A:N6[4_456]	1.91	0.29
5:M:312:U:N1	6:N:519:U:N3[2_666]	1.91	0.29
1:I:64:A:O3'	5:M:502:U:N3[3_556]	1.91	0.29
3:K:146:A:C6	5:M:387:U:C4[4_556]	1.91	0.29
5:M:312:U:O4'	6:N:519:U:N1[2_666]	1.91	0.29
3:K:148:A:C5'	5:M:384:U:C3'[4_556]	1.91	0.29
1:I:356:A:C2	4:L:680:U:N1[3_546]	1.92	0.28
3:K:12:A:C6	5:M:312:U:C4[2_664]	1.92	0.28
2:J:44:A:N9	4:L:758:U:N1[3_546]	1.92	0.28
2:J:170:A:OP2	3:K:151:A:C1'[4_456]	1.92	0.28
3:K:18:A:C5'	5:M:305:U:C4'[2_664]	1.92	0.28
5:M:391:U:N3	6:N:388:U:C2'[4_456]	1.92	0.28
2:J:46:A:C1'	4:L:756:U:C2[3_546]	1.92	0.28
4:L:752:U:O4'	5:M:499:U:C5'[3_556]	1.92	0.28
2:J:44:A:C4'	4:L:759:U:C2[3_546]	1.92	0.28
1:I:69:A:C4	2:J:46:A:P[3_556]	1.92	0.28
1:I:146:A:C4	1:I:356:A:N9[3_556]	1.92	0.28
1:I:64:A:O5'	5:M:503:U:C2[3_556]	1.92	0.28
2:J:243:A:C5	6:N:517:U:C2[2_666]	1.92	0.28
1:I:62:A:OP1	5:M:505:U:O2'[3_556]	1.92	0.28
2:J:43:A:C5'	4:L:760:U:O3'[3_546]	1.92	0.28
3:K:149:A:C5'	5:M:383:U:C1'[4_556]	1.92	0.28
2:J:49:A:P	4:L:753:U:O3'[3_546]	1.92	0.28
2:J:47:A:O2'	4:L:754:U:C2[3_546]	1.92	0.28
4:L:469:U:C6	4:L:679:U:C2'[3_546]	1.92	0.28
2:J:170:A:O5'	3:K:151:A:C1'[4_456]	1.92	0.28
2:J:242:A:O4'	3:K:15:A:C6[2_666]	1.92	0.28
1:I:142:A:N3	4:L:471:U:C4'[3_556]	1.92	0.28
2:J:170:A:N6	3:K:149:A:C2[4_456]	1.92	0.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:47:A:O5'	4:L:755:U:N3[3_546]	1.92	0.28
1:I:143:A:N9	4:L:471:U:C3'[3_556]	1.92	0.28
1:I:146:A:N6	1:I:355:A:C2[3_556]	1.92	0.28
1:I:70:A:N7	2:J:46:A:OP1[3_556]	1.93	0.27
4:L:469:U:C4	4:L:679:U:O4'[3_546]	1.93	0.27
3:K:147:A:N7	5:M:386:U:C4[4_556]	1.93	0.27
2:J:242:A:N3	3:K:14:A:N6[2_666]	1.93	0.27
1:I:69:A:C2	2:J:46:A:O5'[3_556]	1.93	0.27
1:I:62:A:OP1	5:M:506:U:O4'[3_556]	1.93	0.27
3:K:13:A:N6	5:M:312:U:O2[2_664]	1.93	0.27
2:J:170:A:OP1	3:K:151:A:N9[4_456]	1.93	0.27
4:L:752:U:C2'	5:M:499:U:P[3_556]	1.93	0.27
3:K:149:A:O5'	5:M:384:U:C6[4_556]	1.93	0.27
2:J:240:A:N1	3:K:12:A:O5'[2_666]	1.93	0.27
2:J:47:A:O4'	4:L:755:U:N1[3_546]	1.93	0.27
2:J:44:A:P	4:L:760:U:C2[3_546]	1.93	0.27
1:I:63:A:C5	5:M:504:U:O5'[3_556]	1.93	0.27
2:J:163:A:C4	6:N:387:U:C2'[4_456]	1.93	0.27
3:K:144:A:O5'	5:M:389:U:OP1[4_556]	1.93	0.27
1:I:356:A:N1	4:L:680:U:C5[3_546]	1.93	0.27
3:K:143:A:O3'	5:M:389:U:P[4_556]	1.93	0.27
2:J:43:A:C2	4:L:758:U:O3'[3_546]	1.93	0.27
5:M:392:U:C5	6:N:388:U:O2'[4_456]	1.93	0.27
3:K:148:A:OP2	5:M:385:U:O5'[4_556]	1.93	0.27
1:I:149:A:C3'	4:L:466:U:C6[3_556]	1.93	0.27
2:J:45:A:N3	4:L:757:U:C5[3_546]	1.93	0.27
1:I:65:A:N9	5:M:502:U:C3'[3_556]	1.93	0.27
2:J:169:A:N9	6:N:382:U:O4[4_456]	1.93	0.27
2:J:44:A:O4'	4:L:758:U:O2[3_546]	1.93	0.27
3:K:149:A:C2'	5:M:383:U:N3[4_556]	1.93	0.27
1:I:142:A:N3	4:L:471:U:C3'[3_556]	1.93	0.27
2:J:45:A:C6	4:L:757:U:C5[3_546]	1.94	0.26
4:L:756:U:C3'	5:M:508:U:C4[3_556]	1.94	0.26
1:I:64:A:C2'	5:M:502:U:C3'[3_556]	1.94	0.26
3:K:143:A:C2'	5:M:389:U:C5'[4_556]	1.94	0.26
5:M:392:U:C5'	6:N:389:U:P[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
2:J:169:A:O5'	6:N:381:U:O2[4_456]	1.94	0.26
1:I:61:A:N3	5:M:504:U:O3'[3_556]	1.94	0.26
2:J:168:A:C6	6:N:383:U:O4[4_456]	1.94	0.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:149:A:O2'	4:L:466:U:C6[3_556]	1.94	0.26
4:L:469:U:N1	4:L:680:U:OP2[3_546]	1.94	0.26
1:I:144:A:OP2	4:L:472:U:O4'[3_556]	1.94	0.26
1:I:63:A:C5'	5:M:504:U:C2[3_556]	1.94	0.26
1:I:142:A:C2	4:L:471:U:C4'[3_556]	1.94	0.26
5:M:390:U:N1	6:N:388:U:N3[4_456]	1.94	0.26
1:I:142:A:C5	4:L:471:U:C5'[3_556]	1.94	0.26
2:J:46:A:N7	4:L:756:U:C4[3_546]	1.94	0.26
1:I:146:A:O4'	1:I:356:A:C4'[3_556]	1.94	0.26
4:L:751:U:O3'	5:M:499:U:O3'[3_556]	1.94	0.26
2:J:48:A:OP1	4:L:754:U:C4[3_546]	1.94	0.26
5:M:390:U:N3	6:N:388:U:C2[4_456]	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:46:A:C5	4:L:756:U:C2[3_546]	1.94	0.26
3:K:146:A:C3'	5:M:387:U:OP2[4_556]	1.94	0.26
1:I:150:A:N9	4:L:466:U:OP1[3_556]	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
3:K:147:A:O3'	5:M:385:U:C5'[4_556]	1.95	0.25
1:I:146:A:N1	1:I:356:A:C8[3_556]	1.95	0.25
2:J:170:A:O2'	3:K:151:A:OP2[4_456]	1.95	0.25
3:K:12:A:C4'	5:M:314:U:N3[2_664]	1.95	0.25
2:J:168:A:O2'	6:N:382:U:C5[4_456]	1.95	0.25
1:I:64:A:O4'	5:M:503:U:O4'[3_556]	1.95	0.25
2:J:165:A:C5	6:N:387:U:O4[4_456]	1.95	0.25
2:J:46:A:C2	4:L:756:U:C4'[3_546]	1.95	0.25
1:I:65:A:O2'	5:M:502:U:C5'[3_556]	1.95	0.25
1:I:64:A:C1'	5:M:502:U:C1'[3_556]	1.95	0.25
2:J:42:A:N6	4:L:759:U:OP1[3_546]	1.95	0.25
2:J:47:A:N1	4:L:756:U:P[3_546]	1.95	0.25
3:K:144:A:N1	5:M:389:U:N3[4_556]	1.95	0.25
4:L:758:U:P	5:M:509:U:N3[3_556]	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:143:A:O3'	5:M:389:U:O5'[4_556]	1.95	0.25
2:J:171:A:OP2	3:K:151:A:O5'[4_456]	1.95	0.25
5:M:391:U:N1	6:N:388:U:C1'[4_456]	1.95	0.25
1:I:356:A:N1	4:L:680:U:C4[3_546]	1.95	0.25
1:I:65:A:O4'	5:M:502:U:O5'[3_556]	1.95	0.25
2:J:48:A:O4'	4:L:755:U:C5'[3_546]	1.95	0.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:146:A:C8	1:I:355:A:C2'[3_556]	1.95	0.25
5:M:391:U:O2'	6:N:388:U:O3'[4_456]	1.96	0.24
3:K:148:A:OP1	5:M:385:U:P[4_556]	1.96	0.24
1:I:143:A:C2'	4:L:471:U:O2'[3_556]	1.96	0.24
5:M:391:U:OP2	6:N:389:U:N3[4_456]	1.96	0.24
2:J:242:A:O5'	3:K:15:A:C6[2_666]	1.96	0.24
1:I:63:A:C2	5:M:504:U:P[3_556]	1.96	0.24
1:I:70:A:C6	2:J:46:A:C4'[3_556]	1.96	0.24
1:I:65:A:O5'	5:M:502:U:C5[3_556]	1.96	0.24
1:I:351:A:O3'	4:L:676:U:O3'[3_546]	1.96	0.24
1:I:65:A:C5	5:M:503:U:OP2[3_556]	1.96	0.24
2:J:170:A:O5'	3:K:151:A:C4[4_456]	1.96	0.24
2:J:243:A:C4	6:N:518:U:C6[2_666]	1.96	0.24
3:K:142:A:C6	5:M:390:U:O4'[4_556]	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
1:I:144:A:OP2	4:L:472:U:C2[3_556]	1.96	0.24
3:K:146:A:N6	5:M:387:U:C4[4_556]	1.96	0.24
2:J:166:A:OP2	6:N:386:U:OP2[4_456]	1.96	0.24
3:K:13:A:O4'	5:M:313:U:C4'[2_664]	1.96	0.24
3:K:149:A:C3'	5:M:383:U:C2[4_556]	1.96	0.24
3:K:142:A:N1	5:M:390:U:O5'[4_556]	1.96	0.24
3:K:148:A:N7	5:M:385:U:C5[4_556]	1.96	0.24
1:I:61:A:P	5:M:506:U:OP1[3_556]	1.96	0.24
2:J:240:A:N7	3:K:12:A:P[2_666]	1.96	0.24
2:J:163:A:C2'	6:N:387:U:O4'[4_456]	1.96	0.24
2:J:167:A:OP2	6:N:384:U:C4'[4_456]	1.97	0.23
1:I:61:A:C4	5:M:505:U:OP1[3_556]	1.97	0.23
2:J:242:A:C2'	3:K:15:A:C5[2_666]	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
1:I:64:A:O5'	5:M:502:U:O2[3_556]	1.97	0.23
2:J:44:A:O2'	4:L:758:U:O2[3_546]	1.97	0.23
1:I:65:A:P	5:M:502:U:C2[3_556]	1.97	0.23
1:I:149:A:O2'	4:L:466:U:C3'[3_556]	1.97	0.23
2:J:48:A:O4'	4:L:755:U:O5'[3_546]	1.97	0.23
2:J:47:A:C2'	4:L:754:U:C1'[3_546]	1.97	0.23
2:J:170:A:C2	3:K:150:A:O5'[4_456]	1.97	0.23
1:I:143:A:C6	4:L:471:U:O4'[3_556]	1.97	0.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:A:OP2	5:M:504:U:C4[3_556]	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:65:A:C5'	5:M:502:U:N1[3_556]	1.97	0.23
2:J:48:A:OP1	4:L:753:U:N3[3_546]	1.97	0.23
1:I:62:A:P	5:M:506:U:O5'[3_556]	1.97	0.23
2:J:244:A:C6	6:N:517:U:C3'[2_666]	1.98	0.22
1:I:142:A:C6	4:L:471:U:C5'[3_556]	1.98	0.22
5:M:391:U:C1'	6:N:388:U:O3'[4_456]	1.98	0.22
1:I:142:A:N7	4:L:471:U:OP1[3_556]	1.98	0.22
3:K:149:A:P	5:M:384:U:N1[4_556]	1.98	0.22
1:I:70:A:N7	2:J:46:A:O5'[3_556]	1.98	0.22
1:I:63:A:OP2	5:M:505:U:O4[3_556]	1.98	0.22
2:J:169:A:C4'	6:N:381:U:N3[4_456]	1.98	0.22
1:I:62:A:C2	5:M:504:U:C4'[3_556]	1.98	0.22
3:K:148:A:C3'	5:M:384:U:N1[4_556]	1.98	0.22
2:J:168:A:C3'	6:N:382:U:C3'[4_456]	1.98	0.22
1:I:71:A:C5	2:J:47:A:P[3_556]	1.98	0.22
2:J:169:A:N1	3:K:149:A:C6[4_456]	1.98	0.22
3:K:148:A:P	5:M:385:U:C4'[4_556]	1.98	0.22
5:M:391:U:C2	6:N:388:U:O4'[4_456]	1.98	0.22
2:J:169:A:C5'	6:N:381:U:C2[4_456]	1.98	0.22
3:K:17:A:C4'	5:M:305:U:OP1[2_664]	1.98	0.22
1:I:70:A:C5	2:J:46:A:C3'[3_556]	1.98	0.22
1:I:62:A:OP1	5:M:506:U:C5'[3_556]	1.98	0.22
1:I:68:A:N6	2:J:45:A:O5'[3_556]	1.98	0.22
1:I:146:A:C5	1:I:356:A:N9[3_556]	1.98	0.22
3:K:148:A:OP1	5:M:384:U:O3'[4_556]	1.98	0.22
1:I:61:A:C6	5:M:505:U:OP1[3_556]	1.98	0.22
2:J:43:A:C3'	4:L:760:U:C1'[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:170:A:O3'	3:K:151:A:P[4_456]	1.98	0.22
2:J:44:A:C4'	4:L:759:U:O2[3_546]	1.98	0.22
4:L:469:U:C4	4:L:679:U:C6[3_546]	1.99	0.21
2:J:170:A:C3'	3:K:151:A:O5'[4_456]	1.99	0.21
1:I:146:A:C5'	1:I:356:A:OP1[3_556]	1.99	0.21
1:I:63:A:O5'	5:M:504:U:C5[3_556]	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

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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:148:A:O3'	5:M:384:U:O5'[4_556]	1.99	0.21
2:J:47:A:O4'	4:L:755:U:C2[3_546]	1.99	0.21
3:K:146:A:C5'	5:M:387:U:OP2[4_556]	1.99	0.21
2:J:243:A:C1'	6:N:517:U:O2[2_666]	1.99	0.21
2:J:164:A:C3'	6:N:387:U:O5'[4_456]	1.99	0.21
3:K:143:A:N6	5:M:390:U:N1[4_556]	1.99	0.21
3:K:149:A:OP2	5:M:384:U:C6[4_556]	1.99	0.21
2:J:168:A:N7	6:N:383:U:O4[4_456]	1.99	0.21
2:J:243:A:N7	6:N:517:U:C5[2_666]	1.99	0.21
1:I:356:A:N6	4:L:679:U:C4[3_546]	1.99	0.21
2:J:45:A:N3	4:L:756:U:O2[3_546]	1.99	0.21
3:K:147:A:C4	5:M:386:U:C4[4_556]	1.99	0.21
3:K:13:A:C1'	5:M:313:U:C1'[2_664]	1.99	0.21
2:J:244:A:C8	6:N:517:U:O3'[2_666]	1.99	0.21
2:J:46:A:C1'	4:L:756:U:O2[3_546]	1.99	0.21
2:J:164:A:C4	6:N:387:U:N3[4_456]	1.99	0.21
1:I:62:A:P	5:M:506:U:P[3_556]	1.99	0.21
2:J:168:A:O5'	6:N:383:U:P[4_456]	1.99	0.21
1:I:59:A:C5'	2:J:41:A:OP1[3_556]	1.99	0.21
4:L:470:U:O2	4:L:680:U:O4[3_546]	1.99	0.21
2:J:43:A:C3'	4:L:760:U:C6[3_546]	1.99	0.21
2:J:168:A:C5'	6:N:382:U:C3'[4_456]	1.99	0.21
3:K:12:A:C3'	5:M:313:U:N3[2_664]	1.99	0.21
1:I:69:A:C8	2:J:45:A:O3'[3_556]	1.99	0.21
1:I:70:A:C2	2:J:46:A:O3'[3_556]	2.00	0.20
1:I:61:A:OP1	5:M:506:U:OP1[3_556]	2.00	0.20
3:K:147:A:P	5:M:386:U:P[4_556]	2.00	0.20
3:K:146:A:C3'	5:M:386:U:C3'[4_556]	2.00	0.20
2:J:42:A:N1	4:L:759:U:C5'[3_546]	2.00	0.20
1:I:64:A:C2	5:M:503:U:OP2[3_556]	2.00	0.20
2:J:44:A:N3	4:L:758:U:C5[3_546]	2.00	0.20
4:L:756:U:O3'	5:M:508:U:O2[3_556]	2.00	0.20
3:K:12:A:O3'	5:M:314:U:N1[2_664]	2.00	0.20
3:K:144:A:N1	5:M:390:U:O4[4_556]	2.00	0.20
4:L:757:U:P	5:M:509:U:C4[3_556]	2.00	0.20
5:M:391:U:N1	6:N:388:U:C3'[4_456]	2.00	0.20
2:J:168:A:C5	6:N:383:U:N3[4_456]	2.00	0.20
5:M:391:U:O2	6:N:388:U:O3'[4_456]	2.00	0.20
2:J:170:A:N6	3:K:149:A:C5[4_456]	2.00	0.20
5:M:391:U:C6	6:N:388:U:C2[4_456]	2.00	0.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:145:A:P	5:M:388:U:OP2[4_556]	2.00	0.20
2:J:242:A:C4'	3:K:15:A:C4[2_666]	2.00	0.20
2:J:165:A:P	6:N:386:U:C3'[4_456]	2.00	0.20
2:J:242:A:C5'	3:K:15:A:C5[2_666]	2.00	0.20
2:J:49:A:P	4:L:753:U:O2'[3_546]	2.00	0.20
5:M:312:U:OP2	6:N:520:U:C5[2_666]	2.00	0.20
3:K:12:A:O4'	5:M:314:U:C5[2_664]	2.00	0.20
3:K:13:A:N6	5:M:312:U:C2[2_664]	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
2:J:46:A:C2	4:L:756:U:C1'[3_546]	2.01	0.19
3:K:149:A:P	5:M:384:U:C1'[4_556]	2.01	0.19
2:J:43:A:C5'	4:L:760:U:O5'[3_546]	2.01	0.19
2:J:169:A:N7	3:K:149:A:N1[4_456]	2.01	0.19
4:L:469:U:O4'	4:L:680:U:OP1[3_546]	2.01	0.19
2:J:170:A:C4	3:K:150:A:N9[4_456]	2.01	0.19
1:I:64:A:O2'	5:M:502:U:C2'[3_556]	2.01	0.19
2:J:170:A:C2	3:K:150:A:OP2[4_456]	2.01	0.19
2:J:169:A:N1	3:K:149:A:C5[4_456]	2.01	0.19
2:J:167:A:C5	6:N:384:U:C5[4_456]	2.01	0.19
1:I:62:A:P	5:M:505:U:O3'[3_556]	2.01	0.19
3:K:12:A:C6	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
4:L:469:U:C2'	4:L:680:U:P[3_546]	2.01	0.19
2:J:171:A:OP2	3:K:151:A:OP2[4_456]	2.01	0.19
4:L:751:U:O2'	5:M:499:U:C4'[3_556]	2.01	0.19
2:J:44:A:P	4:L:760:U:C1'[3_546]	2.01	0.19
1:I:62:A:N9	5:M:504:U:O2'[3_556]	2.01	0.19
5:M:391:U:C2'	6:N:388:U:O3'[4_456]	2.01	0.19
2:J:169:A:O3'	3:K:151:A:C2[4_456]	2.01	0.19
1:I:67:A:C5	2:J:45:A:P[3_556]	2.01	0.19
3:K:149:A:O5'	5:M:383:U:C2[4_556]	2.01	0.19
3:K:145:A:C5	5:M:388:U:O4[4_556]	2.02	0.18
2:J:169:A:C1'	6:N:381:U:C4[4_456]	2.02	0.18
2:J:43:A:N3	4:L:759:U:O5'[3_546]	2.02	0.18
1:I:67:A:C5	2:J:45:A:OP2[3_556]	2.02	0.18
2:J:170:A:C5	3:K:150:A:C4[4_456]	2.02	0.18
2:J:48:A:P	4:L:754:U:C2[3_546]	2.02	0.18
5:M:312:U:C6	6:N:519:U:C4[2_666]	2.02	0.18
1:I:71:A:C6	2:J:46:A:O3'[3_556]	2.02	0.18
4:L:756:U:P	5:M:507:U:C4[3_556]	2.02	0.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:391:U:O4	6:N:388:U:O2[4_456]	2.02	0.18
2:J:168:A:C4'	6:N:383:U:OP2[4_456]	2.02	0.18
5:M:312:U:C1'	6:N:519:U:C2[2_666]	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
2:J:167:A:C4	6:N:384:U:O4[4_456]	2.02	0.18
5:M:391:U:C5	6:N:389:U:C6[4_456]	2.02	0.18
2:J:169:A:N1	3:K:149:A:N6[4_456]	2.02	0.18
5:M:310:U:O4	6:N:517:U:P[2_666]	2.02	0.18
1:I:64:A:C5	5:M:503:U:P[3_556]	2.02	0.18
1:I:62:A:N1	5:M:504:U:P[3_556]	2.02	0.18
1:I:356:A:N3	4:L:680:U:O2[3_546]	2.02	0.18
3:K:148:A:O3'	5:M:384:U:C4'[4_556]	2.02	0.18
2:J:46:A:C8	4:L:757:U:C5[3_546]	2.02	0.18
1:I:143:A:O4'	4:L:472:U:C5'[3_556]	2.02	0.18
3:K:12:A:N7	5:M:313:U:C4[2_664]	2.02	0.18
2:J:242:A:C1'	3:K:14:A:N1[2_666]	2.02	0.18
1:I:69:A:N3	2:J:45:A:O3'[3_556]	2.02	0.18
2:J:168:A:O3'	6:N:382:U:C6[4_456]	2.02	0.18
3:K:148:A:O3'	5:M:384:U:C1'[4_556]	2.02	0.18
4:L:758:U:O3'	5:M:511:U:N3[3_556]	2.02	0.18
2:J:166:A:C6	6:N:385:U:C4[4_456]	2.03	0.17
3:K:149:A:O4'	5:M:383:U:N1[4_556]	2.03	0.17
2:J:168:A:P	6:N:383:U:P[4_456]	2.03	0.17
3:K:142:A:N6	5:M:390:U:O2'[4_556]	2.03	0.17
2:J:47:A:C2	4:L:755:U:C4'[3_546]	2.03	0.17
3:K:143:A:C3'	5:M:389:U:C4'[4_556]	2.03	0.17
2:J:165:A:OP1	6:N:386:U:O5'[4_456]	2.03	0.17
2:J:241:A:OP1	6:N:514:U:C5[2_666]	2.03	0.17
5:M:309:U:O4	6:N:516:U:O3'[2_666]	2.03	0.17
3:K:12:A:C2	5:M:312:U:C2'[2_664]	2.03	0.17
3:K:144:A:N1	5:M:389:U:O4[4_556]	2.03	0.17
1:I:65:A:N9	5:M:503:U:OP2[3_556]	2.03	0.17
1:I:146:A:C2'	1:I:356:A:P[3_556]	2.03	0.17
1:I:68:A:N1	2:J:45:A:O4'[3_556]	2.03	0.17
4:L:469:U:C2	4:L:679:U:C2'[3_546]	2.03	0.17
2:J:48:A:C3'	4:L:754:U:O5'[3_546]	2.03	0.17
2:J:46:A:N1	4:L:756:U:C6[3_546]	2.03	0.17
3:K:142:A:C4	5:M:390:U:C5'[4_556]	2.03	0.17
5:M:312:U:C5	6:N:519:U:O4[2_666]	2.03	0.17
3:K:147:A:O3'	5:M:385:U:O5'[4_556]	2.03	0.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:167:A:OP1	6:N:384:U:P[4_456]	2.03	0.17
2:J:244:A:N7	6:N:517:U:C1'[2_666]	2.03	0.17
1:I:142:A:N9	4:L:471:U:O3'[3_556]	2.03	0.17
5:M:390:U:O3'	6:N:389:U:N3[4_456]	2.03	0.17
1:I:64:A:OP2	5:M:503:U:C2[3_556]	2.03	0.17
2:J:43:A:O2'	4:L:759:U:C1'[3_546]	2.03	0.17
5:M:391:U:OP1	6:N:390:U:O4[4_456]	2.03	0.17
2:J:163:A:C2'	6:N:387:U:C4'[4_456]	2.03	0.17
3:K:147:A:N7	5:M:386:U:C6[4_556]	2.03	0.17
5:M:312:U:OP2	6:N:520:U:N3[2_666]	2.03	0.17
2:J:164:A:C4'	6:N:387:U:OP1[4_456]	2.03	0.17
1:I:142:A:O2'	4:L:472:U:P[3_556]	2.04	0.16
2:J:242:A:C5'	3:K:15:A:C6[2_666]	2.04	0.16
3:K:148:A:P	5:M:385:U:P[4_556]	2.04	0.16
1:I:65:A:O2'	5:M:502:U:OP1[3_556]	2.04	0.16
2:J:44:A:P	4:L:759:U:O2[3_546]	2.04	0.16
4:L:758:U:C5'	5:M:510:U:O2[3_556]	2.04	0.16
1:I:62:A:C5'	5:M:505:U:C2'[3_556]	2.04	0.16
2:J:165:A:OP1	6:N:386:U:OP1[4_456]	2.04	0.16
2:J:244:A:C6	6:N:517:U:O3'[2_666]	2.04	0.16
1:I:149:A:O3'	4:L:466:U:C6[3_556]	2.04	0.16
1:I:66:A:O5'	5:M:502:U:OP2[3_556]	2.04	0.16
1:I:64:A:C2'	5:M:502:U:O2'[3_556]	2.04	0.16
2:J:47:A:C2'	4:L:755:U:C6[3_546]	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
2:J:242:A:OP1	3:K:16:A:C5[2_666]	2.04	0.16
2:J:45:A:C8	4:L:758:U:N3[3_546]	2.04	0.16
3:K:12:A:O3'	5:M:314:U:C5[2_664]	2.04	0.16
2:J:169:A:O3'	3:K:151:A:N9[4_456]	2.04	0.16
2:J:167:A:N6	3:K:147:A:N1[4_456]	2.04	0.16
2:J:48:A:C2'	4:L:754:U:C5'[3_546]	2.04	0.16
2:J:170:A:C6	3:K:149:A:C4[4_456]	2.04	0.16
4:L:759:U:OP1	5:M:511:U:O4[3_556]	2.04	0.16
2:J:170:A:C5'	3:K:151:A:N7[4_456]	2.04	0.16
2:J:43:A:C2'	4:L:759:U:O2'[3_546]	2.04	0.16
2:J:166:A:N6	6:N:385:U:C4[4_456]	2.04	0.16
1:I:149:A:O2'	4:L:466:U:C1'[3_556]	2.04	0.16
1:I:145:A:C2	1:I:356:A:O4'[3_556]	2.05	0.15
1:I:143:A:N7	4:L:471:U:C3'[3_556]	2.05	0.15
3:K:13:A:N7	5:M:312:U:O2[2_664]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:390:U:O3'	6:N:390:U:N3[4_456]	2.05	0.15
2:J:43:A:C6	4:L:758:U:C3'[3_546]	2.05	0.15
2:J:167:A:N7	6:N:384:U:C5[4_456]	2.05	0.15
2:J:243:A:C5	6:N:518:U:C5[2_666]	2.05	0.15
1:I:68:A:C5	2:J:45:A:O5'[3_556]	2.05	0.15
1:I:62:A:P	5:M:505:U:C1'[3_556]	2.05	0.15
1:I:146:A:C3'	1:I:356:A:OP2[3_556]	2.05	0.15
4:L:469:U:N1	4:L:680:U:P[3_546]	2.05	0.15
2:J:243:A:C5	6:N:517:U:C6[2_666]	2.05	0.15
4:L:756:U:C2'	5:M:508:U:N3[3_556]	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:168:A:C3'	6:N:382:U:C2'[4_456]	2.05	0.15
1:I:149:A:C5'	4:L:466:U:C4[3_556]	2.05	0.15
1:I:71:A:N1	2:J:47:A:P[3_556]	2.05	0.15
2:J:243:A:C2	6:N:518:U:C5[2_666]	2.05	0.15
3:K:148:A:N3	5:M:384:U:O4[4_556]	2.05	0.15
2:J:44:A:O5'	4:L:760:U:C6[3_546]	2.05	0.15
3:K:145:A:N7	5:M:389:U:O4[4_556]	2.05	0.15
2:J:45:A:N1	4:L:757:U:O5'[3_546]	2.05	0.15
3:K:12:A:C1'	5:M:313:U:C4[2_664]	2.05	0.15
1:I:149:A:C4'	4:L:466:U:C4[3_556]	2.05	0.15
3:K:146:A:OP2	5:M:387:U:O5'[4_556]	2.05	0.15
2:J:45:A:C5	4:L:757:U:C4[3_546]	2.06	0.14
3:K:12:A:C2'	5:M:313:U:N1[2_664]	2.06	0.14
1:I:71:A:C4	2:J:46:A:O2'[3_556]	2.06	0.14
5:M:390:U:C2	6:N:388:U:C2[4_456]	2.06	0.14
4:L:757:U:O5'	5:M:509:U:O4[3_556]	2.06	0.14
1:I:143:A:N9	4:L:471:U:C4'[3_556]	2.06	0.14
1:I:356:A:C2	4:L:680:U:C5[3_546]	2.06	0.14
4:L:755:U:O3'	5:M:507:U:O2[3_556]	2.06	0.14
2:J:43:A:N9	4:L:760:U:P[3_546]	2.06	0.14
1:I:64:A:O3'	5:M:502:U:C1'[3_556]	2.06	0.14
3:K:147:A:N9	5:M:386:U:C5[4_556]	2.06	0.14
5:M:391:U:N1	6:N:389:U:C6[4_456]	2.06	0.14
2:J:239:A:N1	3:K:12:A:OP1[2_666]	2.06	0.14
1:I:63:A:N7	5:M:504:U:O5'[3_556]	2.06	0.14
1:I:59:A:O5'	2:J:40:A:O3'[3_556]	2.06	0.14
3:K:148:A:O5'	5:M:385:U:P[4_556]	2.06	0.14
2:J:239:A:N6	3:K:11:A:O2'[2_666]	2.06	0.14
2:J:167:A:C6	6:N:384:U:N3[4_456]	2.06	0.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:146:A:N7	1:I:356:A:C8[3_556]	2.06	0.14
1:I:62:A:C5'	5:M:505:U:N1[3_556]	2.06	0.14
1:I:146:A:C3'	1:I:356:A:O5'[3_556]	2.06	0.14
2:J:169:A:O4'	6:N:381:U:C4[4_456]	2.06	0.14
3:K:144:A:C5	5:M:389:U:N1[4_556]	2.06	0.14
4:L:469:U:C1'	4:L:680:U:OP1[3_546]	2.06	0.14
1:I:65:A:C1'	5:M:502:U:C3'[3_556]	2.06	0.14
1:I:64:A:C4'	5:M:502:U:N1[3_556]	2.06	0.14
2:J:168:A:O5'	6:N:383:U:OP2[4_456]	2.06	0.14
1:I:143:A:O5'	4:L:472:U:C6[3_556]	2.06	0.14
3:K:12:A:N1	5:M:312:U:C6[2_664]	2.06	0.14
1:I:63:A:N6	5:M:504:U:OP2[3_556]	2.07	0.13
3:K:143:A:C8	5:M:389:U:C4'[4_556]	2.07	0.13
2:J:43:A:C5	4:L:759:U:C5'[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
1:I:146:A:N9	1:I:356:A:C5'[3_556]	2.07	0.13
2:J:44:A:N9	4:L:758:U:N3[3_546]	2.07	0.13
2:J:167:A:OP2	6:N:384:U:C3'[4_456]	2.07	0.13
3:K:144:A:N7	5:M:389:U:C2[4_556]	2.07	0.13
3:K:12:A:O2'	5:M:314:U:C5[2_664]	2.07	0.13
5:M:391:U:N1	6:N:388:U:O2'[4_456]	2.07	0.13
4:L:469:U:N3	4:L:679:U:N1[3_546]	2.07	0.13
3:K:147:A:C5	5:M:386:U:N3[4_556]	2.07	0.13
3:K:13:A:OP2	5:M:313:U:O2[2_664]	2.07	0.13
3:K:148:A:OP2	5:M:385:U:C1'[4_556]	2.07	0.13
1:I:69:A:N1	2:J:46:A: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: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
4:L:468:U:N3	4:L:679:U:C1'[3_546]	2.07	0.13
2:J:244:A:N7	6:N:517:U:O4'[2_666]	2.07	0.13
1:I:149:A:OP2	4:L:465:U:OP2[3_556]	2.07	0.13
2:J:42:A:C2	4:L:759:U:C4'[3_546]	2.07	0.13
2:J:43:A:C2'	4:L:760:U:O4'[3_546]	2.07	0.13
2:J:44:A:C1'	4:L:759:U:C6[3_546]	2.07	0.13
1:I:62:A:C4'	5:M:505:U:C1'[3_556]	2.07	0.13
1:I:149:A:O4'	4:L:466:U:C5[3_556]	2.07	0.13
2:J:43:A:C6	4:L:758:U:O3'[3_546]	2.07	0.13
4:L:469:U:C3'	4:L:680:U:OP2[3_546]	2.07	0.13
2:J:165:A:N1	6:N:386:U:O4[4_456]	2.07	0.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:A:O4'	5:M:504:U:C6[3_556]	2.07	0.13
2:J:44:A:N1	4:L:757:U:C3'[3_546]	2.07	0.13
2:J:165:A:C6	6:N:386:U:C4[4_456]	2.07	0.13
3:K:144:A:C8	5:M:389:U:C5[4_556]	2.07	0.13
3:K:17:A:C3'	5:M:305:U:OP1[2_664]	2.07	0.13
3:K:144:A:P	5:M:389:U:OP1[4_556]	2.07	0.13
5:M:392:U:OP2	6:N:389:U:C3'[4_456]	2.07	0.13
3:K:144:A:C6	5:M:389:U:O4[4_556]	2.07	0.13
3:K:13:A:O5'	5:M:313:U:O2[2_664]	2.07	0.13
4:L:751:U:O4'	5:M:499:U:C4'[3_556]	2.08	0.12
1:I:357:A:N6	4:L:679:U:C2[3_546]	2.08	0.12
2:J:164:A:O4'	6:N:387:U:P[4_456]	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:146:A:P	5:M:387:U:OP1[4_556]	2.08	0.12
3:K:148:A:C8	5:M:385:U:O4[4_556]	2.08	0.12
2:J:47:A:C4	4:L:755:U:O4'[3_546]	2.08	0.12
2:J:44:A:O4'	4:L:759:U:C2[3_546]	2.08	0.12
1:I:143:A:C8	4:L:471:U:N1[3_556]	2.08	0.12
1:I:149:A:C3'	4:L:466:U:C5[3_556]	2.08	0.12
3:K:148:A:O2'	5:M:384:U:C5[4_556]	2.08	0.12
3:K:12:A:N9	5:M:313:U:N3[2_664]	2.08	0.12
2:J:169:A:C5	3:K:150:A:N6[4_456]	2.08	0.12
4:L:756:U:C3'	5:M:508:U:O2[3_556]	2.08	0.12
2:J:171:A:N7	3:K:150:A:C3'[4_456]	2.08	0.12
4:L:752:U:OP2	5:M:499:U:C3'[3_556]	2.08	0.12
2:J:48:A:O4'	4:L:754:U:C1'[3_546]	2.08	0.12
1:I:62:A:C4	5:M:504:U:C5'[3_556]	2.08	0.12
2:J:168:A:N1	3:K:148:A:C6[4_456]	2.08	0.12
4:L:755:U:O3'	5:M:507:U:N3[3_556]	2.08	0.12
2:J:164:A:C2	6:N:387:U:N3[4_456]	2.08	0.12
1:I:65:A:C4'	5:M:501:U:C2'[3_556]	2.08	0.12
1:I:145:A:N3	1:I:356:A:C1'[3_556]	2.08	0.12
3:K:146:A:O5'	5:M:387:U:P[4_556]	2.08	0.12
1:I:66:A:P	5:M:502:U:OP1[3_556]	2.08	0.12
3:K:147:A:OP2	5:M:386:U:O3'[4_556]	2.08	0.12
3:K:145:A:P	5:M:388:U:O5'[4_556]	2.08	0.12
2:J:169:A:C3'	3:K:151:A:C4[4_456]	2.09	0.11
3:K:149:A:OP2	5:M:384:U:C2'[4_556]	2.09	0.11
3:K:148:A:C5'	5:M:384:U:O3'[4_556]	2.09	0.11
2:J:43:A:C5'	4:L:760:U:C5'[3_546]	2.09	0.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:65:A:C1'	5:M:502:U:O5'[3_556]	2.09	0.11
4:L:469:U:C2	4:L:679:U:C3'[3_546]	2.09	0.11
3:K:13:A:C4'	5:M:313:U:C2'[2_664]	2.09	0.11
2:J:47:A:O3'	4:L:754:U:O2[3_546]	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
2:J:242:A:C4'	3:K:15:A:N6[2_666]	2.09	0.11
1:I:63:A:C2	5:M:504:U:OP2[3_556]	2.09	0.11
4:L:752:U:O5'	5:M:499:U:O5'[3_556]	2.09	0.11
2:J:169:A:O3'	3:K:151:A:C5[4_456]	2.09	0.11
1:I:63:A:N1	5:M:504:U:P[3_556]	2.09	0.11
5:M:390:U:N3	6:N:388:U:C4[4_456]	2.09	0.11
2:J:43:A:C2'	4:L:759:U:C2[3_546]	2.09	0.11
2:J:49:A:OP2	4:L:753:U:C2'[3_546]	2.09	0.11
1:I:146:A:C1'	1:I:356:A:C3'[3_556]	2.09	0.11
2:J:43:A:OP1	4:L:761:U:OP2[3_546]	2.09	0.11
3:K:147:A:N3	5:M:386:U:O4[4_556]	2.09	0.11
1:I:142:A:C1'	4:L:471:U:O3'[3_556]	2.09	0.11
2:J:164:A:O5'	6:N:386:U:C2'[4_456]	2.09	0.11
1:I:143:A:N7	4:L:471:U:C5'[3_556]	2.09	0.11
2:J:171:A:OP2	3:K:150:A:O3'[4_456]	2.09	0.11
1:I:146:A:C4'	1:I:356:A:C5'[3_556]	2.09	0.11
2:J:243:A:N7	6:N:517:U:O2[2_666]	2.09	0.11
2:J:242:A:C5	6:N:517:U:C4[2_666]	2.09	0.11
1:I:61:A:C5'	5:M:505:U:O3'[3_556]	2.09	0.11
2:J:168:A:P	6:N:383:U:C4'[4_456]	2.09	0.11
1:I:146:A:N6	1:I:356:A:N7[3_556]	2.09	0.11
2:J:163:A:N1	6:N:387:U:C2[4_456]	2.09	0.11
2:J:164:A:C5'	6:N:387:U:O5'[4_456]	2.09	0.11
1:I:70:A:N3	2:J:46:A:C3'[3_556]	2.09	0.11
2:J:43:A:C3'	4:L:760:U:C4'[3_546]	2.09	0.11
3:K:13:A:O4'	5:M:313:U:C3'[2_664]	2.09	0.11
4:L:469:U:N1	4:L:679:U:C2'[3_546]	2.09	0.11
5:M:312:U:C2'	6:N:519:U:O2[2_666]	2.09	0.11
1:I:64:A:OP2	5:M:503:U:O4[3_556]	2.10	0.10
5:M:312:U:C5'	6:N:519:U:O2[2_666]	2.10	0.10
2:J:48:A:N3	4:L:755:U:P[3_546]	2.10	0.10
2:J:165:A:N7	6:N:387:U:C5[4_456]	2.10	0.10
2:J:239:A:C6	3:K:11:A:O3'[2_666]	2.10	0.10
2:J:167:A:N6	6:N:385:U:C4[4_456]	2.10	0.10
2:J:47:A:OP2	4:L:755:U:O4[3_546]	2.10	0.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:59:A:C5'	2:J:41:A:P[3_556]	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:43:A:N9	4:L:759:U:C1'[3_546]	2.10	0.10
1:I:65:A:OP2	5:M:502:U:C4[3_556]	2.10	0.10
4:L:752:U:C3'	5:M:499:U:P[3_556]	2.10	0.10
3:K:143:A:N3	5:M:390:U:O5'[4_556]	2.10	0.10
1:I:143:A:N6	4:L:470:U:C2'[3_556]	2.10	0.10
2:J:171:A:C6	3:K:149:A:C2'[4_456]	2.10	0.10
2:J:49:A:O5'	4:L:754:U:O5'[3_546]	2.10	0.10
4:L:756:U:O2'	5:M:508:U:C2[3_556]	2.10	0.10
1:I:65:A:C1'	5:M:502:U:O3'[3_556]	2.10	0.10
3:K:143:A:C1'	5:M:390:U:OP2[4_556]	2.10	0.10
3:K:17:A:O3'	5:M:305:U:C5'[2_664]	2.10	0.10
1:I:64:A:C3'	5:M:502:U:C6[3_556]	2.10	0.10
1:I:61:A:C2	5:M:504:U:O3'[3_556]	2.10	0.10
1:I:68:A:C5	2:J:45:A:C5'[3_556]	2.10	0.10
4:L:757:U:O2'	5:M:510:U:N1[3_556]	2.10	0.10
2:J:45:A:C8	4:L:757:U:C2[3_546]	2.10	0.10
3:K:148:A:C8	5:M:385:U:C6[4_556]	2.10	0.10
2:J:244:A:C6	6:N:517:U:O5'[2_666]	2.10	0.10
1:I:149:A:C5'	4:L:466:U:O4[3_556]	2.11	0.09
1:I:68:A:C2	2:J:45:A:O4'[3_556]	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
1:I:62:A:C2	5:M:504:U:P[3_556]	2.11	0.09
3:K:147:A:N6	5:M:386:U:C4[4_556]	2.11	0.09
1:I:145:A:N1	1:I:356:A:C1'[3_556]	2.11	0.09
5:M:312:U:C1'	6:N:519:U:O2[2_666]	2.11	0.09
1:I:62:A:OP2	5:M:506:U:O5'[3_556]	2.11	0.09
1:I:146:A:C8	1:I:356:A:O4'[3_556]	2.11	0.09
2:J:169:A:C4	3:K:150:A:N1[4_456]	2.11	0.09
3:K:144:A:N1	5:M:390:U:C4[4_556]	2.11	0.09
1:I:144:A:OP1	4:L:472:U:C2'[3_556]	2.11	0.09
3:K:12:A:C5	5:M:313:U:C4[2_664]	2.11	0.09
2:J:48:A:C2	4:L:755:U:OP1[3_546]	2.11	0.09
1:I:62:A:O3'	5:M:504:U:N3[3_556]	2.11	0.09
1:I:71:A:C6	2:J:47:A:C5'[3_556]	2.11	0.09
4:L:757:U:O3'	5:M:509:U:N3[3_556]	2.11	0.09
3:K:18:A:N9	5:M:306:U:OP1[2_664]	2.11	0.09
2:J:242:A:C2'	3:K:15:A:C6[2_666]	2.11	0.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:45:A:C2'	4:L:757:U:N3[3_546]	2.11	0.09
2:J:43:A:N7	4:L:760:U:P[3_546]	2.11	0.09
1:I:70:A:N1	2:J:47:A:P[3_556]	2.11	0.09
1:I:65:A:C3'	5:M:501:U:C3'[3_556]	2.11	0.09
2:J:168:A:C3'	6:N:382:U:C6[4_456]	2.11	0.09
1:I:63:A:N7	5:M:504:U:OP2[3_556]	2.11	0.09
3:K:12:A:C6	5:M:312:U:C5[2_664]	2.11	0.09
3:K:18:A:C5'	5:M:305:U:O3'[2_664]	2.11	0.09
1:I:62:A:C6	5:M:505:U:OP2[3_556]	2.11	0.09
3:K:144:A:N1	5:M:389:U:C4[4_556]	2.11	0.09
2:J:48:A:O5'	4:L:754:U:C5[3_546]	2.11	0.09
2:J:236:A:O3'	6:N:522:U:C1'[2_666]	2.11	0.09
1:I:146:A:C4'	1:I:356:A:P[3_556]	2.11	0.09
1:I:64:A:C5	5:M:503:U:OP2[3_556]	2.11	0.09
1:I:69:A:C4	2:J:45:A:O2'[3_556]	2.12	0.08
2:J:164:A:O5'	6:N:386:U:O3'[4_456]	2.12	0.08
4:L:469:U:C4	4:L:679:U:C3'[3_546]	2.12	0.08
1:I:62:A:C5'	5:M:505:U:C4'[3_556]	2.12	0.08
2:J:164:A:O4'	6:N:387:U:C4'[4_456]	2.12	0.08
2:J:170:A:P	3:K:151:A:C8[4_456]	2.12	0.08
5:M:391:U:O4'	6:N:389:U:C5[4_456]	2.12	0.08
2:J:42:A:C8	4:L:760:U:OP1[3_546]	2.12	0.08
1:I:61:A:O3'	5:M:505:U:C1'[3_556]	2.12	0.08
2:J:44:A:OP2	4:L:760:U:N3[3_546]	2.12	0.08
4:L:756:U:P	5:M:507:U:C2[3_556]	2.12	0.08
2:J:44:A:N1	4:L:757:U:C2'[3_546]	2.12	0.08
2:J:166:A:C3'	6:N:385:U:OP2[4_456]	2.12	0.08
2:J:165:A:O5'	6:N:386:U:P[4_456]	2.12	0.08
2:J:169:A:C3'	3:K:150:A:C2[4_456]	2.12	0.08
2:J:166:A:C6	6:N:386:U:O4[4_456]	2.12	0.08
5:M:390:U:O2'	6:N:389:U:C4[4_456]	2.12	0.08
1:I:69:A:N7	2:J:46:A:P[3_556]	2.12	0.08
3:K:12:A:C2'	5:M:314:U:C5[2_664]	2.12	0.08
2:J:46:A:C4	4:L:756:U:C5[3_546]	2.12	0.08
4:L:757:U:OP1	5:M:509:U:C4[3_556]	2.12	0.08
1:I:70:A:N1	2:J:47:A:OP2[3_556]	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
5:M:312:U:OP1	6:N:520:U:N1[2_666]	2.12	0.08
1:I:67:A:N6	2:J:45:A:P[3_556]	2.12	0.08
2:J:242:A:OP2	3:K:16:A:C6[2_666]	2.12	0.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:143:A:N9	5:M:389:U:C4'[4_556]	2.12	0.08
2:J:44:A:N9	4:L:759:U:N1[3_546]	2.12	0.08
3:K:17:A:C5'	5:M:305:U:OP1[2_664]	2.12	0.08
2:J:169:A:C2'	3:K:150:A:C2[4_456]	2.13	0.07
4:L:469:U:O2	4:L:680:U:O5'[3_546]	2.13	0.07
2:J:169:A:O5'	6:N:382:U:N1[4_456]	2.13	0.07
2:J:165:A:N6	6:N:386:U:N3[4_456]	2.13	0.07
2:J:44:A:C6	4:L:758:U:C6[3_546]	2.13	0.07
1:I:64:A:O2'	5:M:502:U: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: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
3:K:13:A:C6	5:M:312:U:C2[2_664]	2.13	0.07
1:I:64:A:O2'	5:M:502:U:N1[3_556]	2.13	0.07
3:K:18:A:C4'	5:M:305:U:O3'[2_664]	2.13	0.07
1:I:64:A:N9	5:M:503:U:C5'[3_556]	2.13	0.07
2:J:164:A:C2'	6:N:387:U:P[4_456]	2.13	0.07
2:J:47:A:C6	4:L:756:U:P[3_546]	2.13	0.07
2:J:165:A:C8	6:N:387:U:C5[4_456]	2.13	0.07
4:L:752:U:P	5:M:500:U:O5'[3_556]	2.13	0.07
1:I:62:A:OP2	5:M:505:U:C2'[3_556]	2.13	0.07
3:K:145:A:N6	5:M:388:U:O4[4_556]	2.13	0.07
1:I:146:A:N1	1:I:356:A:C4[3_556]	2.13	0.07
1:I:145:A:C3'	1:I:355:A:O2'[3_556]	2.13	0.07
2:J:242:A:OP1	3:K:16:A:N7[2_666]	2.13	0.07
2:J:171:A:N1	3:K:149:A:O3'[4_456]	2.13	0.07
5:M:391:U:N3	6:N:388:U:O2'[4_456]	2.13	0.07
2:J:44:A:C4	4:L:758:U:C5[3_546]	2.13	0.07
4:L:752:U:O4'	5:M:499:U:OP2[3_556]	2.13	0.07
2:J:47:A:O5'	4:L:755:U:C4[3_546]	2.13	0.07
2:J:242:A:N9	3:K:15:A:N6[2_666]	2.13	0.07
5:M:391:U:OP2	6:N:390:U:C4[4_456]	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
2:J:48:A:OP2	4:L:754:U:C6[3_546]	2.14	0.06
1:I:143:A:C4	4:L:471:U:C4'[3_556]	2.14	0.06
1:I:352:A:C4'	4:L:676:U:P[3_546]	2.14	0.06
3:K:146:A:O3'	5:M:386:U:C3'[4_556]	2.14	0.06
2:J:243:A:C4	6:N:517:U:C2'[2_666]	2.14	0.06
3:K:147:A:O2'	5:M:385:U:O5'[4_556]	2.14	0.06
5:M:390:U:C1'	6:N:389:U:O4[4_456]	2.14	0.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:43:A:N1	4:L:759:U:C5'[3_546]	2.14	0.06
2:J:164:A:O5'	6:N:387:U:C5'[4_456]	2.14	0.06
3:K:148:A:C4'	5:M:384:U:O5'[4_556]	2.14	0.06
2:J:46:A:N1	4:L:756:U:C5'[3_546]	2.14	0.06
2:J:163:A:C2	6:N:387:U:C2[4_456]	2.14	0.06
4:L:756:U:OP2	5:M:507:U:O4[3_556]	2.14	0.06
3:K:146:A:C5	5:M:387:U:C4[4_556]	2.14	0.06
2:J:49:A:OP1	4:L:753:U:O3'[3_546]	2.14	0.06
4:L:756:U:C2'	5:M:508:U:C2[3_556]	2.14	0.06
1:I:64:A:N7	5:M:503:U:O5'[3_556]	2.14	0.06
1:I:62:A:OP2	5:M:505:U:O3'[3_556]	2.14	0.06
3:K:143:A:N7	5:M:389:U:C1'[4_556]	2.14	0.06
3:K:147:A:C4'	5:M:386:U:P[4_556]	2.14	0.06
4:L:469:U:C4	4:L:679:U:C2[3_546]	2.14	0.06
2:J:165:A:N6	6:N:386:U:O4[4_456]	2.14	0.06
1:I:143:A:C5'	4:L:472:U:C5[3_556]	2.14	0.06
2:J:169:A:N6	3:K:149:A:N7[4_456]	2.14	0.06
1:I:351:A:C3'	4:L:677:U:P[3_546]	2.14	0.06
3:K:12:A:C3'	5:M:313:U:C2[2_664]	2.14	0.06
2:J:44:A:C4	4:L:759:U:C5[3_546]	2.14	0.06
2:J:166:A:OP2	6:N:385:U:O5'[4_456]	2.14	0.06
2:J:242:A:N3	6:N:517:U:O4[2_666]	2.14	0.06
3:K:13:A:C5'	5:M:313:U:C2'[2_664]	2.14	0.06
1:I:146:A:N3	1:I:356:A:N7[3_556]	2.14	0.06
3:K:144:A:N6	5:M:389:U:C4[4_556]	2.14	0.06
3:K:146:A:N6	5:M:387:U:N3[4_556]	2.14	0.06
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
1:I:63:A:N1	5:M:503:U:O3'[3_556]	2.15	0.05
2:J:168:A:C6	3:K:148:A:N1[4_456]	2.15	0.05
3:K:149:A:N9	5:M:383:U:N3[4_556]	2.15	0.05
1:I:64:A:C2	5:M:502:U:O3'[3_556]	2.15	0.05
5:M:391:U:N3	6:N:388:U:N1[4_456]	2.15	0.05
2:J:168:A:N7	6:N:384:U:C5[4_456]	2.15	0.05
1:I:146:A:P	1:I:355:A:O3'[3_556]	2.15	0.05
3:K:144:A:O4'	5:M:389:U:OP2[4_556]	2.15	0.05
2:J:168:A:N3	6:N:382:U:O4[4_456]	2.15	0.05
3:K:145:A:N6	5:M:388:U:N3[4_556]	2.15	0.05
3:K:143:A:C6	5:M:390:U:C1'[4_556]	2.15	0.05
1:I:62:A:N9	5:M:504:U:C4'[3_556]	2.15	0.05
1:I:148:A:O2'	4:L:467:U:O4[3_556]	2.15	0.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:171:A:OP1	3:K:151:A:OP1[4_456]	2.15	0.05
1:I:63:A:O4'	5:M:504:U:C1'[3_556]	2.15	0.05
2:J:43:A:C5'	4:L:761:U:P[3_546]	2.15	0.05
1:I:146:A:N7	1:I:355:A:C2'[3_556]	2.15	0.05
2:J:43:A:N3	4:L:758:U:O2'[3_546]	2.15	0.05
1:I:143:A:C3'	4:L:472:U:C1'[3_556]	2.16	0.04
2:J:164:A:C4	6:N:387:U:C2[4_456]	2.16	0.04
1:I:143:A:N7	4:L:471:U:C6[3_556]	2.16	0.04
2:J:236:A:P	6:N:521:U:O2'[2_666]	2.16	0.04
2:J:169:A:C3'	6:N:381:U:O2[4_456]	2.16	0.04
3:K:12:A:C5	5:M:313:U:O4[2_664]	2.16	0.04
1:I:66:A:OP1	5:M:501:U:O5'[3_556]	2.16	0.04
2:J:49:A:OP2	4:L:754:U:OP2[3_546]	2.16	0.04
2:J:166:A:C5'	6:N:385:U:OP2[4_456]	2.16	0.04
1:I:149:A:O2'	4:L:466:U:C5'[3_556]	2.16	0.04
2:J:44:A:N6	4:L:758:U:OP2[3_546]	2.16	0.04
1:I:61:A:O5'	5:M:505:U:O3'[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
1:I:64:A:O4'	5:M:503:U:C6[3_556]	2.16	0.04
2:J:243:A:N6	6:N:517:U:C6[2_666]	2.16	0.04
3:K:147:A:N6	5:M:386:U:O4[4_556]	2.16	0.04
3:K:12:A:O3'	5:M:313:U:O2[2_664]	2.16	0.04
2:J:45:A:C5	4:L:757:U:N1[3_546]	2.16	0.04
4:L:757:U:O2'	5:M:510:U:C2[3_556]	2.16	0.04
1:I:63:A:P	5:M:504:U:C4[3_556]	2.16	0.04
1:I:62:A:C4'	5:M:504:U:O2[3_556]	2.16	0.04
2:J:167:A:O4'	6:N:384:U:OP2[4_456]	2.16	0.04
2:J:45:A:N1	4:L:756:U:C2'[3_546]	2.16	0.04
2:J:166:A:P	6:N:385:U:OP1[4_456]	2.16	0.04
1:I:64:A:OP2	5:M:504:U:C4[3_556]	2.16	0.04
5:M:392:U:C6	6:N:389:U:C5'[4_456]	2.16	0.04
4:L:756:U:C4'	5:M:508:U:N3[3_556]	2.16	0.04
2:J:164:A:C6	6:N:387:U:O4[4_456]	2.16	0.04
3:K:147:A:OP1	5:M:386:U:C5'[4_556]	2.16	0.04
2:J:170:A:N1	3:K:150:A:C8[4_456]	2.17	0.03
4:L:752:U:O5'	5:M:499:U:O3'[3_556]	2.17	0.03
2:J:244:A:C8	6:N:517:U:C3'[2_666]	2.17	0.03
2:J:48:A:C4	4:L:755:U:O5'[3_546]	2.17	0.03
5:M:391:U:C6	6:N:388:U:C2'[4_456]	2.17	0.03
3:K:149:A:C5	5:M:384:U:O4[4_556]	2.17	0.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:146:A:C8	1:I:356:A:C5'[3_556]	2.17	0.03
3:K:143:A:C4'	5:M:389:U:C5'[4_556]	2.17	0.03
2:J:45:A:N9	4:L:758:U:C4[3_546]	2.17	0.03
2:J:43:A:O2'	4:L:759:U:O2'[3_546]	2.17	0.03
2:J:42:A:N3	4:L:759:U:C3'[3_546]	2.17	0.03
4:L:757:U:C2'	5:M:509:U:O2[3_556]	2.17	0.03
2:J:44:A:N1	4:L:758:U:C5[3_546]	2.17	0.03
3:K:12:A:O2'	5:M:314:U:C6[2_664]	2.17	0.03
2:J:168:A:C3'	6:N:382:U:C1'[4_456]	2.17	0.03
1:I:143:A:N7	4:L:471:U:N1[3_556]	2.17	0.03
3:K:144:A:OP2	5:M:388:U:C3'[4_556]	2.17	0.03
1:I:70:A:N1	2:J:46:A:C1'[3_556]	2.17	0.03
2:J:165:A:N7	6:N:386:U:C5[4_456]	2.17	0.03
4:L:751:U:C1'	5:M:499:U:C4'[3_556]	2.17	0.03
2:J:46:A:C2	4:L:755:U:C2'[3_546]	2.17	0.03
4:L:758:U:C5'	5:M:510:U:N1[3_556]	2.17	0.03
2:J:167:A:C5'	6:N:384:U:OP1[4_456]	2.17	0.03
1:I:146:A:C1'	1:I:356:A:C4'[3_556]	2.17	0.03
1:I:64:A:C4	5:M:503:U:C5'[3_556]	2.17	0.03
1:I:150:A:O5'	4:L:466:U:P[3_556]	2.17	0.03
2:J:242:A:P	3:K:16:A:C6[2_666]	2.18	0.02
4:L:469:U:O4	4:L:679: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:168:A:C2'	6:N:382:U:N1[4_456]	2.18	0.02
1:I:146:A:C4'	1:I:356:A:O5'[3_556]	2.18	0.02
1:I:65:A:OP1	5:M:502:U:N3[3_556]	2.18	0.02
2:J:168:A:OP2	6:N:383:U:C2'[4_456]	2.18	0.02
3:K:147:A:C8	5:M:386:U:C6[4_556]	2.18	0.02
2:J:168:A:OP1	6:N:383:U:OP1[4_456]	2.18	0.02
2:J:170:A:N7	3:K:150:A:C6[4_456]	2.18	0.02
2:J:48:A:O4'	4:L:754:U:C4'[3_546]	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
2:J:164:A:C1'	6:N:387:U:C6[4_456]	2.18	0.02
2:J:48:A:O2'	4:L:754:U:O3'[3_546]	2.18	0.02
2:J:45:A:C2	4:L:757:U:C5[3_546]	2.18	0.02
4:L:752:U:C1'	5:M:499:U:OP2[3_556]	2.18	0.02
2:J:46:A:N1	4:L:756:U:O4'[3_546]	2.18	0.02
1:I:352:A:OP1	4:L:677:U:P[3_546]	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:A:C2	2:J:45:A:C3'[3_556]	2.18	0.02
3:K:149:A:N9	5:M:383:U:C4[4_556]	2.18	0.02
4:L:756:U:C4'	5:M:508:U:N1[3_556]	2.18	0.02
2:J:45:A:C2	4:L:757:U:N1[3_546]	2.18	0.02
2:J:171:A:O5'	3:K:150:A:O3'[4_456]	2.18	0.02
2:J:46:A:O4'	4:L:756:U:O2[3_546]	2.18	0.02
1:I:71:A:C4	2:J:46:A:O3'[3_556]	2.18	0.02
1:I:68:A:C8	2:J:45:A:OP1[3_556]	2.18	0.02
2:J:163:A:C5	6:N:387:U:O2[4_456]	2.18	0.02
1:I:61:A:C2'	5:M:505:U:C3'[3_556]	2.18	0.02
1:I:64:A:C4	5:M:502:U:O3'[3_556]	2.18	0.02
2:J:242:A:C8	6:N:517:U:O4[2_666]	2.18	0.02
3:K:149:A:O4'	5:M:383:U:O4[4_556]	2.18	0.02
2:J:45:A:N3	4:L:757:U:C2[3_546]	2.18	0.02
1:I:63:A:N9	5:M:503:U:C3'[3_556]	2.18	0.02
2:J:168:A:N7	6:N:384:U:C4[4_456]	2.18	0.02
5:M:391:U:C4	6:N:388:U:N1[4_456]	2.18	0.02
2:J:171:A:C2'	3:K:150:A:OP1[4_456]	2.18	0.02
3:K:12:A:C6	5:M:312:U:N1[2_664]	2.19	0.01
2:J:165:A:C5	6:N:386:U:N3[4_456]	2.19	0.01
1:I:64:A:N9	5:M:503:U:P[3_556]	2.19	0.01
2:J:43:A:C1'	4:L:759:U:O3'[3_546]	2.19	0.01
3:K:144:A:C4	5:M:389:U:C5[4_556]	2.19	0.01
1:I:65:A:C3'	5:M:502:U:OP2[3_556]	2.19	0.01
4:L:757:U:C1'	5:M:509:U:O2[3_556]	2.19	0.01
1:I:64:A:C4	5:M:503:U:OP1[3_556]	2.19	0.01
2:J:45:A:N3	4:L:757:U:C1'[3_546]	2.19	0.01
2:J:168:A:N7	6:N:383:U:C5[4_456]	2.19	0.01
1:I:149:A:O2'	4:L:466:U:N1[3_556]	2.19	0.01
2:J:242:A:C1'	3:K:15:A:N6[2_666]	2.19	0.01
2:J:44:A:C4	4:L:759:U:C6[3_546]	2.19	0.01
2:J:42:A:O2'	4:L:760:U:C4'[3_546]	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
3:K:13:A:C1'	5:M:313:U:C4'[2_664]	2.19	0.01
2:J:47:A:C8	4:L:755:U:O2[3_546]	2.19	0.01
2:J:168:A:C2	3:K:148:A:N6[4_456]	2.19	0.01
2:J:43:A:N1	4:L:758:U:C4'[3_546]	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
2:J:46:A:C2	4:L:756:U:N1[3_546]	2.19	0.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:44:A:C4	4:L:758:U:C1'[3_546]	2.19	0.01

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

### 5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

### 5.3.3 RNA [i](#)

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%)	20 (7%)
4	L	411/412 (99%)	55 (13%)	39 (9%)
5	M	275/276 (99%)	47 (17%)	27 (9%)
6	N	262/265 (98%)	25 (9%)	19 (7%)
All	All	1898/1906 (99%)	262 (13%)	174 (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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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 (174) 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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
3	K	181	A
3	K	188	A
3	K	203	A
3	K	243	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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 [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

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](#)

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

EDS failed to run properly - this section will therefore be empty.

### 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

EDS failed to run properly - this section will therefore be empty.

### 6.3 Carbohydrates ⓘ

EDS failed to run properly - this section will therefore be empty.

### 6.4 Ligands ⓘ

EDS failed to run properly - this section will therefore be empty.

### 6.5 Other polymers ⓘ

EDS failed to run properly - this section will therefore be empty.